9011130006 901102 PDR ADOCK 05000397

## INSERVICE INSPECTION SUMMARY REPORT FOR

REFUELING OUTAGE RF90A JUNE 27, 1989 TO AUGUST 7, 1990

**OWNER:** 

Washington Public Power Supply System

3000 George Washington Way Richland, Washington 99352

PLANT:

WNP-2, located 11 miles north of Richland, Washington

on the U.S Department of Energy Hanford Reservation

COMMERCIAL SERVICE DATE: December 13, 1984

CAPACITY:

1145 MWe

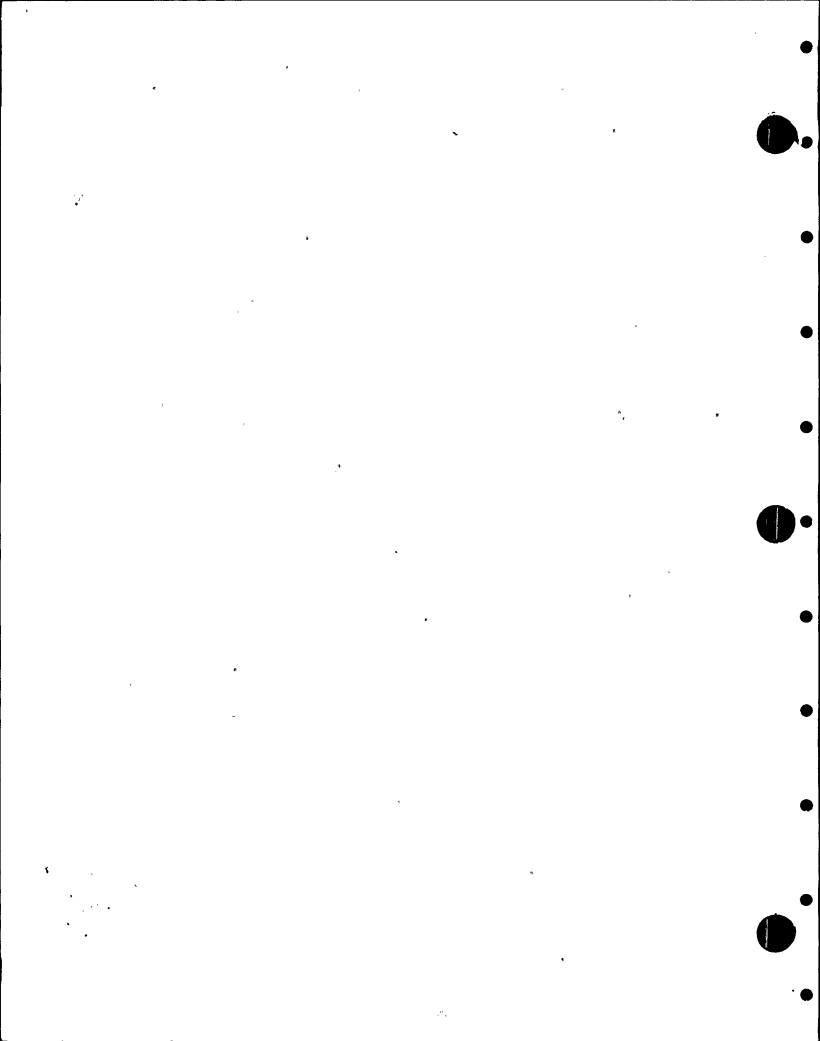
REACTOR PRESSURE VESSEL: Manufacturer: CBIN

Serial Number: T-45

State No.: 29936-84W

Nat'l Bd. No.: 8

Prepared by:	O. Yones	10/10/90
	ISI/Engineer	Date
Reviewed by:_	Thomas 7. Hogh	10/11/90
	Supervisor, Code Programs	Date
	Kickard Common	10-11-90
•	Manager, Matenials and Inspection	Date /
	Charte	10 12 90
	Manager, Engineering Systems Support	Date
	ST Harrold	10/16/90
_	Manager, sengration Engineering	Date
13	Million	10/25/90
	Managery Rhant Technical	Da/te //
<u> </u>	of Ull Jouran	10/26/90
<b>/</b>	Manager, Plant Quality Assurance	Date
Approved by:	Je Baker	10/26/90
	Plant Manager	Date
Concurrence:	San X began H	10/26/90
	Authorized/Nuclear Inspector-Inservice	Date



# ISI SUMMARY REPORT RF90A



Page
Cover Page and Approvals i
Table of Contents ii
Examination Results 1
Repairs/Replacements
Tables
Table I Significant Indications
Table II Examinations Completed by Category
Table III Snubber Testing Summary
Appendices
A. NIS-1 Data Report
B. NDE Examinations
C. Repair/Replacement Listing NIS-2 Data Reports



#### EXAMINATION RESULTS

This report summarizes the results of inservice inspections (ISI) of ASME Code Class 1, 2 and 3 components and supports performed at Washington Public Power Supply System (Supply System) Nuclear Plant No. 2 (WNP-2) between June 27, 1989 and August 7, 1990. During this period, WNP-2 experienced one major scheduled outage, RF90A, for refueling (Spring 1990). Refueling Outage RF90A is the fifth refueling outage for WNP-2 and is also referred to as R5.

The ISI Periods and Outages for the First Interval, covering 12/13/84 to 12/13/94, are as follows:

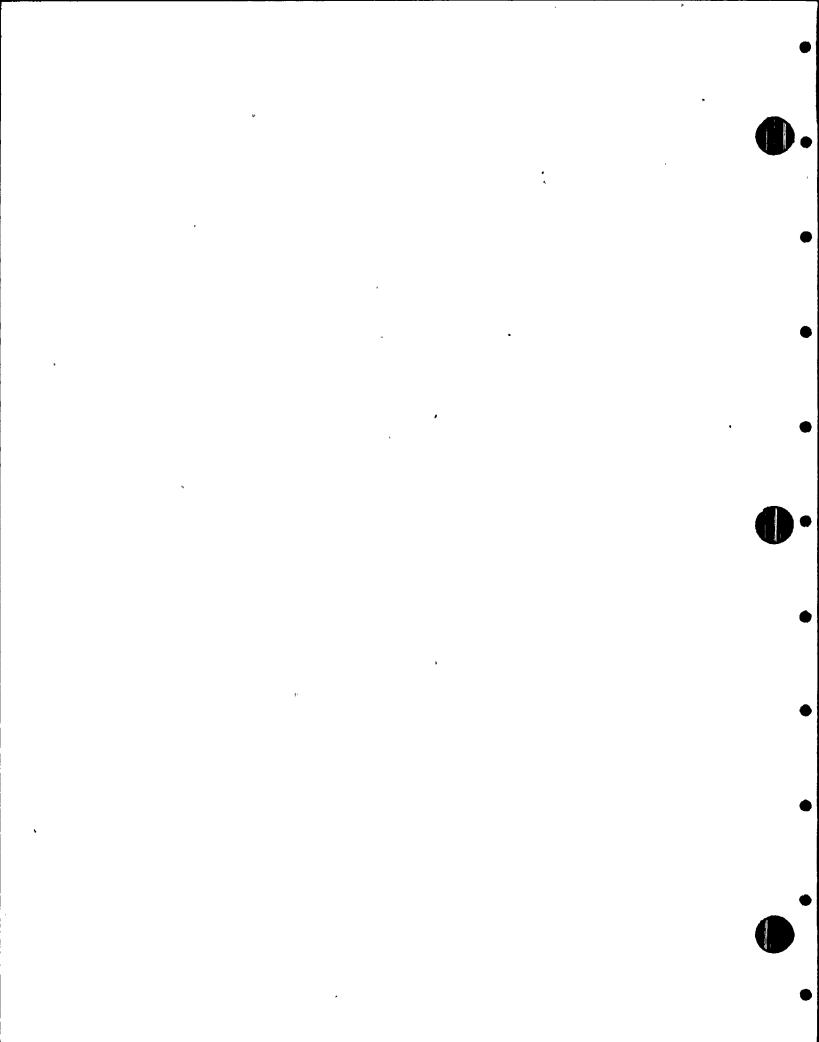
Inspection <u>Period</u>	Refueling <sup>1</sup> <u>Outage</u>	From	<u>To</u>
1	RF86A (R1) RF87A (R2) RF88A (R3)	12/13/84 03/31/86 04/13/87 05/02/88	09/15/85 06/10/86 06/25/87 06/27/88
2	RF89A (R4) RF90A (R5) RF91A (R6)	09/16/88 04/28/89 04/21/90 04/15/91	09/13/91 06/30/89 08/07/90 06/15/91
3	RF92A (R7) RF93A (R8) RF94A (R9)	09/14/91 04/15/92 04/15/93 04/15/94	12/13/94 06/15/92 06/15/93 06/15/94

(1) Assuming one refueling or maintenance outage each year. Actual timing of the spring outages for RF91A-RF94A may vary slightly due to BPA's hydroelectric capacity or outage scope Corresponding sequential outage designations concurrently used at WNP-2, are shown in parenthesis.

The ISI examinations are specified in ASME Section XI and required by 10CFR50.55a. Examinations of one reactor pressure vessel (RPV) feedwater nozzle inner radius, pipe break exclusion areas, and intergranular stress corrosion cracking (IGSCC) detection in Code Class 1 stainless steel welds were performed to meet augmented Nuclear Regulatory Commission (NRC) requirements.

The examinations comply with ASME Section XI, 1980 Edition, Winter 1980 Addenda upgraded as follows:

IWA-2300(a)(1) upgraded to 1983W83 C-F upgraded to 1983W83 IWF-3400 upgraded to 1980W81





Documentation supporting this Summary Report is included in the WNP-2 ISI Program Plan or is located in the WNP-2 Operations File. Table II lists, by Code-Category, examinations completed during this period. Appendix B contains a summary of examination results by ISI drawing number. The ISI drawings referenced are included in the ISI Program Plan previously submitted to the NRC.

The examinations, tests, repairs and replacements were witnessed or verified by Authorized Nuclear Inspector-Inservice (ANI-I) D. Hoggarth. He is employed by Factory Mutual Systems, a subsidiary of Arkwright Mutual Ins. Co., Norwood, Massachusetts.

## COMPONENTS EXAMINED

The following components were examined:

<u>Component</u>	Manufacturer	Serial <u>Number</u>	National Board No.
RPV	CBIN Nuclear 2700 Channel Ave. Memphis, TN	T-45	8 .
LPCS-V-6	Velan Engineering Co. 2125 Ward Ave. Montreal, Canada	0057	N/A
MS-V-22B	Rockwell Mfg. Co. 1900 S. Saunders Street Raleigh, NC	JT-37	69
MS-V-22C	Rockwell Mfg Co. 1900 S. Saunders Street Raleigh, NC	JT-54	70
MS-V-28B	Rockwell Mfg Co. 1900 S. Saunders Street Raleigh, NC	JS-98	96
MS-V-28C	Rockwell Mfg Co. 1900 S. Saunders Street Raleigh, NC	JU-17	77
RRC-V-60A	Hammel Dahl/Conoflow Div. ITT Grinnell Valve Co., Inc. 175 Post Road Warwick, RI	71/200 S/001A	N/A

The following number of components were examined during RF90A:

# TYPE OF EXAMINATION PERFORMED<sup>1</sup>

	<u>ut</u>	PT/MT	<u>vT</u>	TESTING
CODE CLASS 1				
Piping Welds Welded Attachments RPV Nozzle Inner Radius RPV Welds Bolting Valves Component Supports	67 1 8 22 6	51 4 22	72 <sup>2</sup> 61	
CODE CLASS 2				
Piping Welds Component Supports	22	21	76	
CODE CLASS 3				
Welded Attachments Component Supports			1 40	
TESTING.				

Safety-related Snubbers

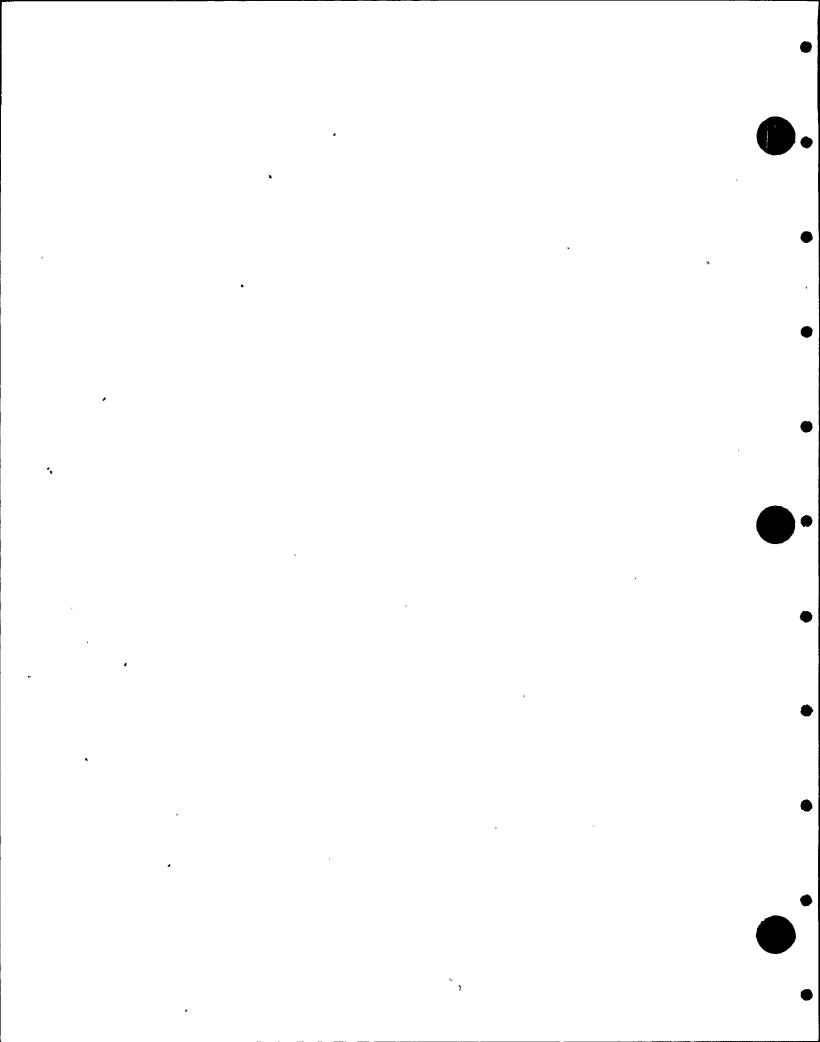
55

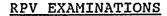
Notes: 1. Includes Preservice examinations (PSI) of replacements. 2. VT examination includes 35 sets (8 bolts per set) of

CRD housing bolts for PSI and 35 sets for ISI.

# PIPING EXAMINATIONS

Approximately 90 Class 1 and 2 piping welds received volumetric and/or surface examinations. Ultrasonic examination was used for the volumetric method. Dye penetrant or magnetic particle examination was used for the surface method.





The RPV examinations were performed to comply with ASME Section XI and the augmented requirements of Regulatory Guide 1.150, Revision 1, Appendix A. The examination meets the requirements of Regulatory Guide 1.150 Sections 1, 2, 3, 4, and 5. The recommendations and requirements of Sections 6 and 7 are implemented as described in the following paragraphs:

o Section 6.0 "Recording and Sizing"

The Supply System complies to Section 6.0 as follows:

Manual examination equipment and procedures used by GE and Supply System personnel were qualified by performing a calibration on a calibration block of the same material and thickness as the area to be examined.

The remaining requirements of Section 6.0 are incorporated in the examination procedure.

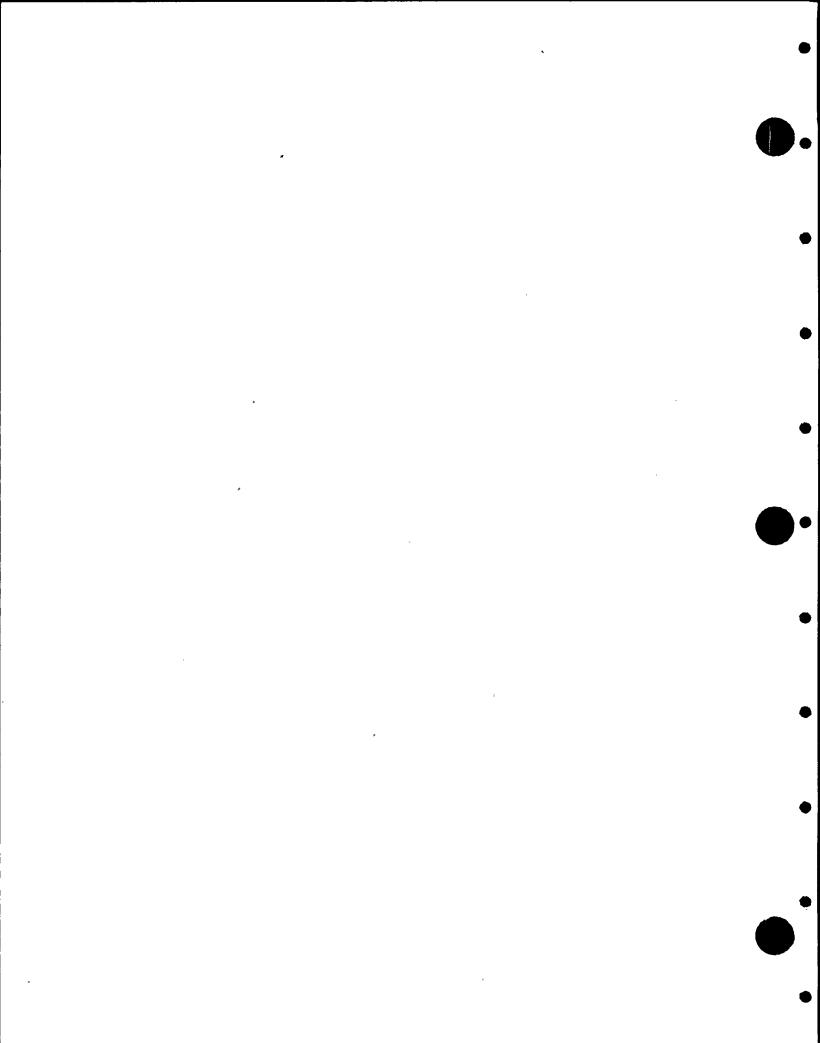
o Section 7.0 "Reporting of Results"

The RPV examination reports are maintained at the site and are available for review. The reports contain a description of the equipment used. Full coverage of the examination volume per ASME Section XI could not be obtained on all the RPV welds examined by UT. The limitations on the nozzle examinations were due to the nozzle configuration. The following table details the percentage of examination volume not examined:

<u>Item</u>	<u>45</u> °	<u>60</u> 0
N3-108-MS	13.2%	9.6%
N3-252 MS	13.2%	9.6%
M3-288 MG	¹ 13 2%	9 6%

Volume not Examined

Visual examination (VT-3) was performed to ensure the two remaining surveillance specimen holders were intact. During examination of the three specimen holders in RF89A, it was discovered that the bottom part of the third specimen holder, a spare, had broken off. It was recovered and the remaining part of the holder assembly was removed at that time. An underwater closed circuit TV examination during the RF90A outage showed the remaining two specimen holders to be intact (no recordable indications). The current plans are to repair or refabricate the spare holder assembly and reinstall it.





# SIGNIFICANT INDICATIONS .

Significant indications found during ISI examinations are summarized in Table I. All significant indications were evaluated using the Evaluation Review Team Report (ERTR). Seven of the nine ERTRs were for unacceptable linear indications on pipe or fittings detected by the magnetic particle (surface) examination of Class 2 piping welds. Because the Class 2 piping welds use an ISI sampling program (approx. 7.5% of pipe welds) upgraded to the 1983W83 ASME Section XI Code, surface examination was not required/performed on these particular welds during preservice examination (1977S78 Section XI). (Note: Surface examinations were performed on Class 1 welds during PSI so all unacceptable linear indications were removed before the welds were accepted and usually do not turn up in subsequent ISI surface examinations.) These indications are not considered injurious by material specification if less than 5% of nominal wall thickness. They are considered surface imperfections due to rolling or forging laps, seams; scabs, etc., depending on fabrication process. As permitted by ASME Section XI, IWB-3514.2(b) for unacceptable surface conditions, volumetric examination of the indication surface may be used for acceptance. All indications were accepted by full thickness UT examination that determined there was no significant depth to any of them.

One ERTR was due to a spring hanger exceeding the specified cold load setting tolerance (340 lbs. recorded vs. 305 lbs. design max.). At PSI, a setting of 325 lbs. had been observed and evaluated as acceptable, based on the small line size (4"), flexibility and overall balance/lineup of system. The resultant increase of less than 5% at RF90A, after five years of operation, was evaluated and considered acceptable.

The last ERTR category was for rejection of CRD Housing Bolts (cap screws) due to pitting corrosion in the shank of the bolt, based on VT-1 visual examination requirements. Out of 280 bolts examined when 35 CRD Drives were reworked at RF90A, 114 were rejected. One set of eight bolts that exhibited the most pitting corrosion (CRD Drive 34-03) was examined in detail in the metallurgical laboratory. Two of the worst of these eight bolts were sectioned and metallographically examined to quantify the degree of corrosion. maximum cross sectional area lost to pitting corrosion up to RF90A, after about 5 years in service, was less than 1%. New bolts had been ordered, examined (PSI) and were used to replace all bolts removed from 34 drives. Eight previously installed bolts that had exhibited very minor corrosion (acceptable spares) were installed in the 35th drive (34-47). Bolts labeled acceptable are designated as spares and can be used for future replacements. Pitting corrosion in CRD housing bolts had been first noted during the RF89A outage (< 1% cross sectional area loss on worst-case basis) when drives were CRD housing bolts will continue to be monitored for pitting corrosion in the same manner in future outages when CRD drives are reworked.



continue to be monitored for pitting corrosion in the same manner in future outages when CRD drives are reworked.

#### LIMITED EXAMINATIONS

Full coverage of the examination volume or surface per ASME Section XI was accomplished on all welds examined, except as noted in RPV EXAMINATIONS above. Areas identified as a limited scan in Appendix B have been examined from one side and meet minimum Code requirements.

#### AUGMENTED EXAMINATIONS

The Supply System performed augmented examinations per the ISI Program Plan Section 5.3, "Mandatory Augmented Inservice Inspection".

o High Energy Lines Penetrating Containment

A dye penetrant or ultrasonic examination was performed on 4 of 65 welds in high energy pipe-break exclusion areas not within ASME Section XI examination boundary. No unacceptable indications were found. This brings the total welds examined in the high energy lines during the First Interval to 37.

o RPV Feedwater Nozzle

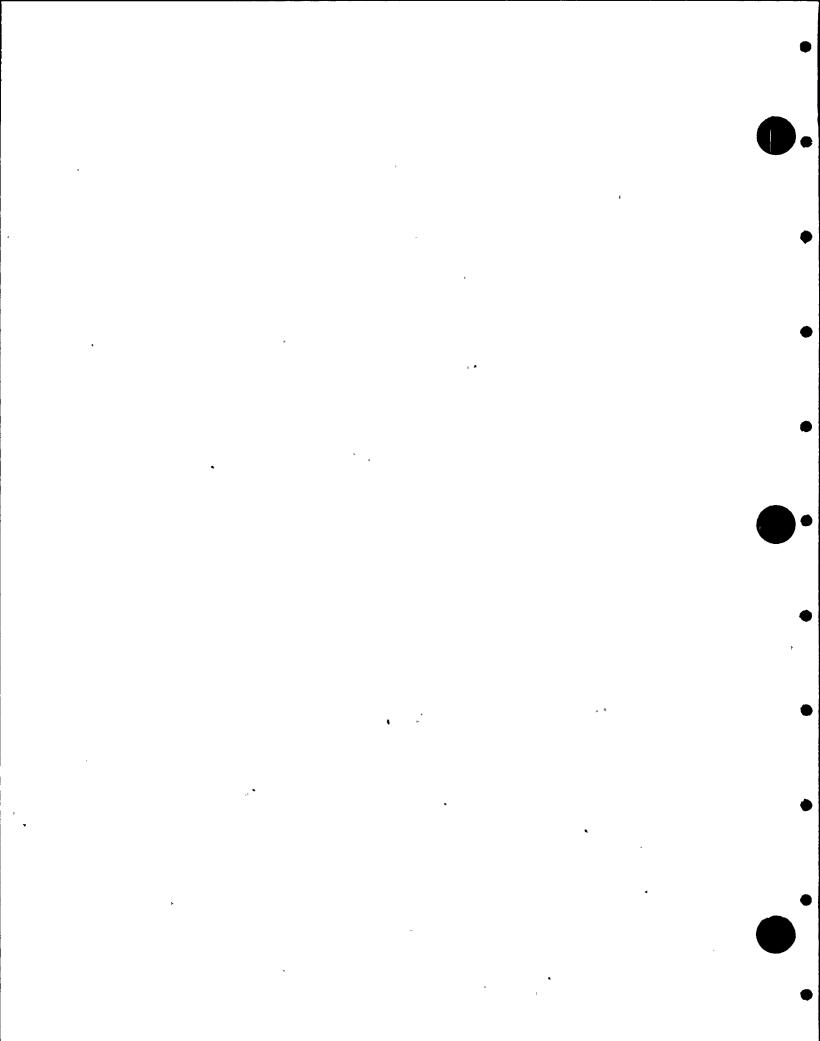
The nozzle inner radius, bore and safe end regions were examined on one RPV feedwater nozzle per the requirements of the ISI Program Plan Section 5.3.2, "Reactor Feedwater Nozzle". No unacceptable indications were found. The Supply System has examined 5 of the 6 feedwater nozzles. To date, no unacceptable indications have been found.

o IGSCC (Generic Letter 88-01 compliance)

Approximately 13% of the 54 Category A welds and 7% of the 148 Category B welds were examined at this outage. The examinations were performed by EPRI-qualified examiners. No unacceptable indications were found.

o Core Spray Sparger and Supply Piping

A visual examination of the core spray spargers and their supply piping was performed per the requirements of IE Bulletin 80-13, "Cracking in Core Spray Sparger". No unacceptable indications were observed. The examination was performed using an underwater closed circuit TV (CCTV) system capable of resolving a 0.001 inch diameter wire in-situ. The examiners were certified to Level II VT-1 under the Supply System QA program.





### SNUBBER TESTING

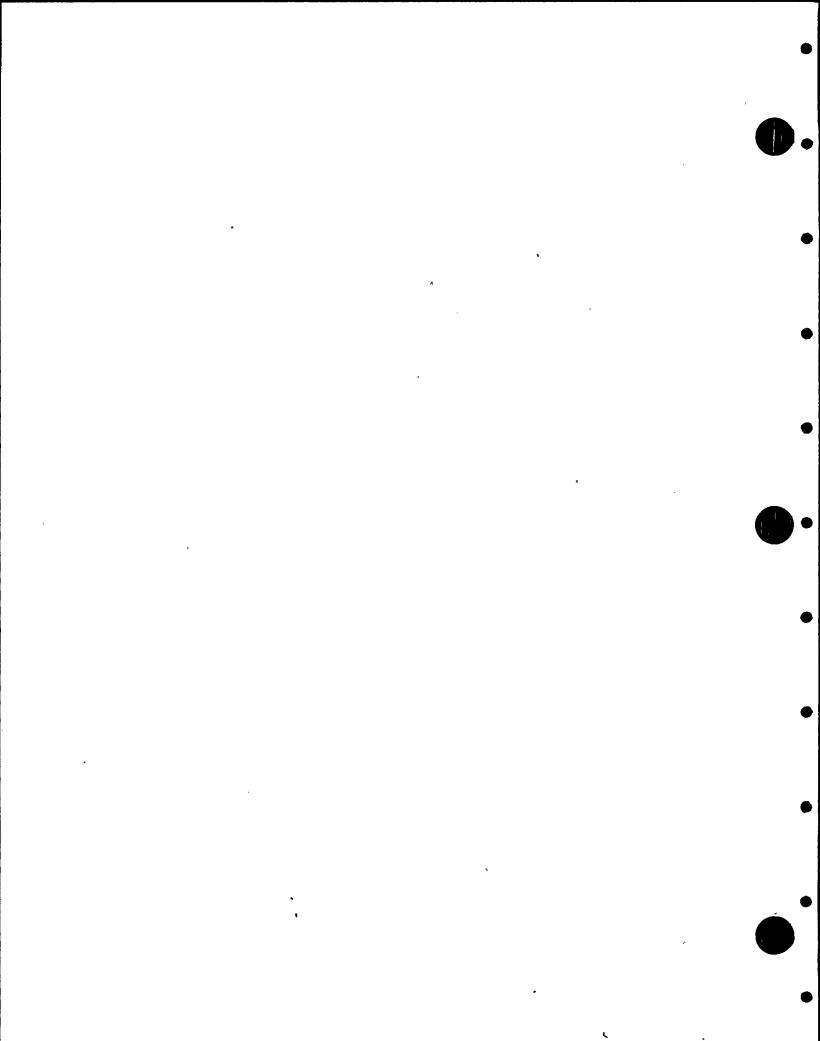
An initial sample of 37 snubbers was selected from the WNP-2 general population of 675 safety-related snubbers. These snubbers were randomly selected by computer sub-routine, which is part of the Snubber Test and Examination Program (STEP). The selected snubbers were then reviewed to determine if the sample was representative as required by Technical Specification 4.7.4.e.

Testing of snubbers was performed using portable testing devices (Validators) supplied by the snubber manufacturer. Snubber MS-256, Top, S/N 4444, in the initial sample failed the functional test. The snubber was taken apart to determine the cause for failure. Failure was attributed to exposure to high temperature (approximately 400-500 F). Further field evaluation indicated that extra insulation was added to the main steam lines in the steam tunnel during the R-4 outage to reduce the temperature in the steam tunnel. This snubber was in direct contact with and somewhat encased in an insulation pad on the "D" steam line. This caused a heat buildup and subsequent hardening of the grease in the bearing/ball screw mechanism that led to the snubber almost freezing up. This snubber is the top one of a dual snubber arrangement. The bottom MS-256 snubber (S/N 4447) was removed and tested successfully: the drag value was less than 1%. All other snubbers in the steam tunnel were examined for similar conditions and were found acceptable. Based on a general inspection of other areas, this snubber failure was considered an isolated However, one additional sample of 18 snubbers was randomly selected from the remaining snubber population as required by the Tech Spec. No more failures were encountered and the testing was considered complete in accordance with the requirements of Figure 4.7.2. (Technical Specification 4.7.4).

Snubbers at MS-256 have been deleted per engineering analysis and a rigid strut added where the bottom snubber had been located.

Snubbers MS-145 (S/N 580) and RHR-SB-34 (S/N 13060) met the acceptance criteria, but the drag values were 2-5%. Snubber RHR-SB-30 (S/N 9936) tested at drag values approaching 2%. To assure better service life at these locations, these snubbers were replaced with other snubbers that had tested out at less than 1% drag.

The next testing is required within 18 months (RF91A, or R6, outage in Spring 1991 for WNP-2). No additional testing is required at R6 due to the failure of MS-256 because the snubber at the failed location has been deleted per engineering analysis, a result of the ongoing snubber optimization program.





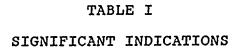
Two significant repair/replacement activities were performed during the RF90A refueling outage: 1) Continuation of the Snubber Optimization Program and 2) Replacement of internals of four main steam isolation valves. A listing and summary of these and all other repairs/replacements accomplished between June 27, 1989 and August 6, 1990 are included in Appendix C.

## Snubber Optimization Program

As part of the Supply System's effort to reduce the number of safety-related snubbers at WNP-2, 9 snubbers were replaced with rigid struts and 46 snubbers were deleted. The new replacement struts received PSI examination after installation.

#### MS ISOLATION VALVE INTERNALS REPLACEMENT

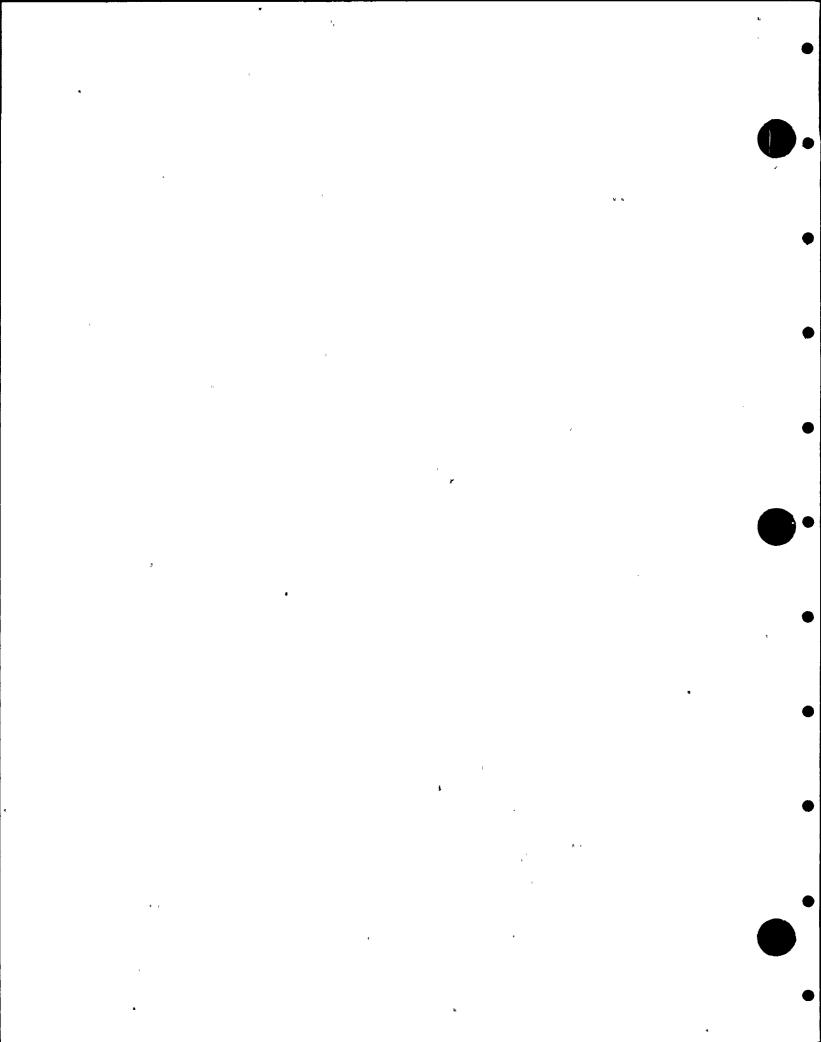
Internals of the remaining four MS isolation valves (MS-V-22B, MS-V-22C, MS-V-28B and MS-V-28C) were replaced. The replacement included the main disc and the stem disc. The bore ID was machined to accommodate the new parts. Weld-repaired and/or machined areas of MS-V-22B, MS-V-22C, MS-V-28B and MS-V-28C valve bores received magnetic particle and VT-3 visual examinations to re-establish the PSI baseline. Because the MS-V-28C valve was in a position where all internal surfaces were accessible at the time of examination, the more complete ISI examination was performed. ISI examination of only one of the eight isolation valves is required each Interval (10 yr. period). Note: At RF89A outage (R4), the first four MS isolation valves (MS-V-22A, MS-V-22D, MS-V-28A and MS-V-28D) were reworked. The internals were replaced and ISI was performed on all four valves.

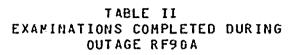


ERTR No	. Ident.No.	<u>Description</u>	Remarks
1-006 1-007	16HPCS(1)-7 16LPCS(1)-2/	Linear indication in surface exam. Linear indication in surface exam.	(1) (1)
1-008	6LPCS(4)-2 6RCIC(1)-99 6RCIC(1)-88	Linear indication in surface exam. Linear indication in surface exam.	(1) (1)
1-009 1-010 1-012	18RHR(1)A-47 .16LPCS(1)-23	Linear indication in surface exam. Linear indication in surface exam.	(1) (1)
1-013 1-011	16LPCS(1)-27 RCIC-68	Linear indication in surface exam.  Spring hgr. above max. spec. load	(1) (2)
1-014	CRD Housing	Pitting corrosion.	(3)

#### Notes

- (1) Unacceptable linear indications in MT surface exams were acceptable in full thickness volumetric UT examinations of indication surface areas (no significant depth in any of the seven cases), as permitted in ASME Section XI, IWC-3514 (IWB-3514-2(b)).
- (2) Slight increase above PSI load, which had been above specifification allowable, but evaluated as acceptable at that time because of overall balance/lineup, flexibility and small line size (4").
- (3) Out of 240 bolts removed from 35 CRD drives after 5 years service, 114 were rejected for pitting corrosion. The maximum cross sectional area lost to corrosion, as determined by metallographic examination of the worst-appearing bolts, was less than 1%. New bolts were installed as replacement bolts in 34 drives. Eight previously installed bolts that had exhibited only very minor corrosion (acceptable spares) were installed in the 35th drive.
- (4) Reference SIGNIFICANT INDICATION section for additional comments.





CODE CATEGORY	IDENTIFICATION NO.	DESCRIPTION	ISI DRAWING	METHOD	EXAM. DATE
AUGHT	6RWCU(2)-5	PIPE TO FE	RWCU-303	VOL	19900510
-	6RWCU(2)-6	FE TO PIPE	RWCU-303	VOL	19900510
	6RWCU(2)-7	PIPE TO TEE	RWCU-303	VOL	19900510
	4RWCU(2)-8	RED TEE TO FLG	RWCU-303	SUR	19900510
	COUNT =	4			
B-D	N3-108	MS NZ-V @ 108	RPV-101	VOL	19900426
	N3-108-IR	MS NZ-IR @ 108	RPV-101	VOL	19900427
	N3-252	MS NZ-V @ 252	RPV-101	VOL	19900426
	N3-252-IR	MS NZ-TR @ 252	RPV-101	VOL	19900427
	N3-288	MS NZ-V @ 288	RPV-101	VOL	19900426
	N3-288-IR	MS NZ-IR a 288	RPV-101	VOL	19900427
	N4-270-IR	FW NZ-IR @ 270	RPV-101	VOL	19900502
	N4-270-NB	FW NZ BORE 0270	RPV-101	VOL	19900502
	COUNT =	8		•	
B-F	12RFW(1)BE-9	SE EXT-SE STUB	RFW-102	VOL	19900502
	12RFW(1)BE-9	SE EXT-SE STUB	RFW-102	SUR	19900501
	12RFW(1)BE-10	SE STUB TO SE	RFW-102	VOL	19900502
	12RFW(1)BE-10	SE STUB TO SE	RFW-102	SUR	19900501
	12RFW(1)BE-11	SE TO N4	RFW-102	VOL	19900502
	12RFW(1)8E-11	SE TO N4	RFW-102	SUR	19900501
	COUNT =	6			
B-G-1	RPV STUD 35-1-4A	RPV STUD	RPV-101	VOL	19900516
	RPV STUD 35-1-4A	RPV STUD	RPV-101	SUR	19900515
	RPV STUD 35-1-11A	RPV STUD	RPV-101	VOL .	19900516
	RPV STUD 35-1-11A	RPV STUD .	RPV-101	SUR	19900515
	RPV STUD 35-1-18A	RPV STUD	RPV-101	VOL	19900516
	RPV STUD 35-1-18A	RPV STUD	RPV-101,	SUR	19900515
	RPV STUD 35-1-25A	RPV STUD	RPV-101	VOL	19900516
				1	

· Page 1 of 16



TABLE II
EXAMINATIONS COMPLETED DURING
OUTAGE RF90A

CODE CATEGORY	IDENTIFICATION NO.	DESCRIPTION	ISI DRAWING	METHOD	EXAM. DATE
B-G-1	RPV STUD 35-1-25A	RPV STUD	RPV-101	SUR	19900515
	RPV STUD 35-1-32A	RPV STUD	RPV-101	VOL	19900516
	RPV STUD 35-1-32A	RPV STUD	RPV-101	SUR	19900515
	RPV STUD 35-1-39A	RPV STUD	RPV-101	VOL	19980516
	RPV STUD 35-1-39A	RPV STUD	RPV-101	SUR	19900517
	RPV STUD 35-1-46A	RPV STUD	RPV-101	VOL	19900516
	RPV STUD 35-1-46A	RPV STUD	RPV-101	SUR	19900517
	RPV STUD 35-1-53A	RPV STUD	RPV-101	VOL	19900516
	RPV STUD 35-1-53A	RPV STUD	RPV-101	. SUR	19900517
	RPV STUD 35-1-60A	RPV STUD	RPV-101	VOL	19900516
	RPV STUD 35-1-60A	RPV STUD	RPV-101	SUR	19900517
•	RPV STUD 35-1-67A	RPV STUD.	RPV-101	VOL	19900516
	RPV STUD 35-1-67A	RPV STUD	RPV-101	SUR	19900515
	RPV STUD 35-1-74A	RPV STUD	RPV-101	VOL	19900516
	RPV STUD 35-1-74A	RPV STUD	RPV-101	SUR	19900515
	RPV NUT 36-1-4A	RPV NUT	RPV-101	VOL	19900519
	RPV NUT 36-1-4A	RPV NUT	RPV-101	SUR	19900519
	RPV NUT 36-1-11A	RPV NUT	RPV-101	VOL	19900519
	RPV NUT 36-1-11A	RPV NUT	RPV-101	SUR	19900519
	RPV NUT 36-1-18A	RPV NUT	RPV-101	VOL	19900519
	RPV NUT 36-1-18A	RPV NUT	RPV-101	SUR	19900519
	RPV NUT 36-1-25A	RPV NUT	RPV-101	VOL	19900519
	RPV NUT 36-1-25A	RPV NUT	RPV-101	SUR	19900519
	RPV NUT 36-1-32A	RPV NUT	RPV-101	VOL	19900519
	RPV NUT 36-1-32A	RPV NUT	RPV-101	SUR	19900519
	RPV NUT 36-1-39A	RPV NUT	RPV-101	VOL	19900519
	RPV NUT 36-1-39A	RPV NUT	RPV-101	SUR	19900519
	RPV NUT 36-1-46A	RPV NUT	RPV-101	VOL	19900519
	RPV NUT 36-1-46A	RPV NUT	RPV-101	SUR	19900519
	RPV NUT 36-1-53A	RPV NUT	RPV-101 .	VOL	19900519
	RPV NUT 36-1-53A	RPV NUT	RPV-101	SUR	19900519
	RPV NUT 36-1-60A	RPV NUT	RPV-101	VOL	19900519
	RPV NUT 36-1-60A	RPV NUT	RPV-101	SUR	19900519
	RPV NUT 36-1-67A	RPV NUT	RPV-101	VOL	19900519

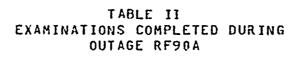
Page 2 of 16



# TABLE II EXAMINATIONS COMPLETED DURING OUTAGE RF90A

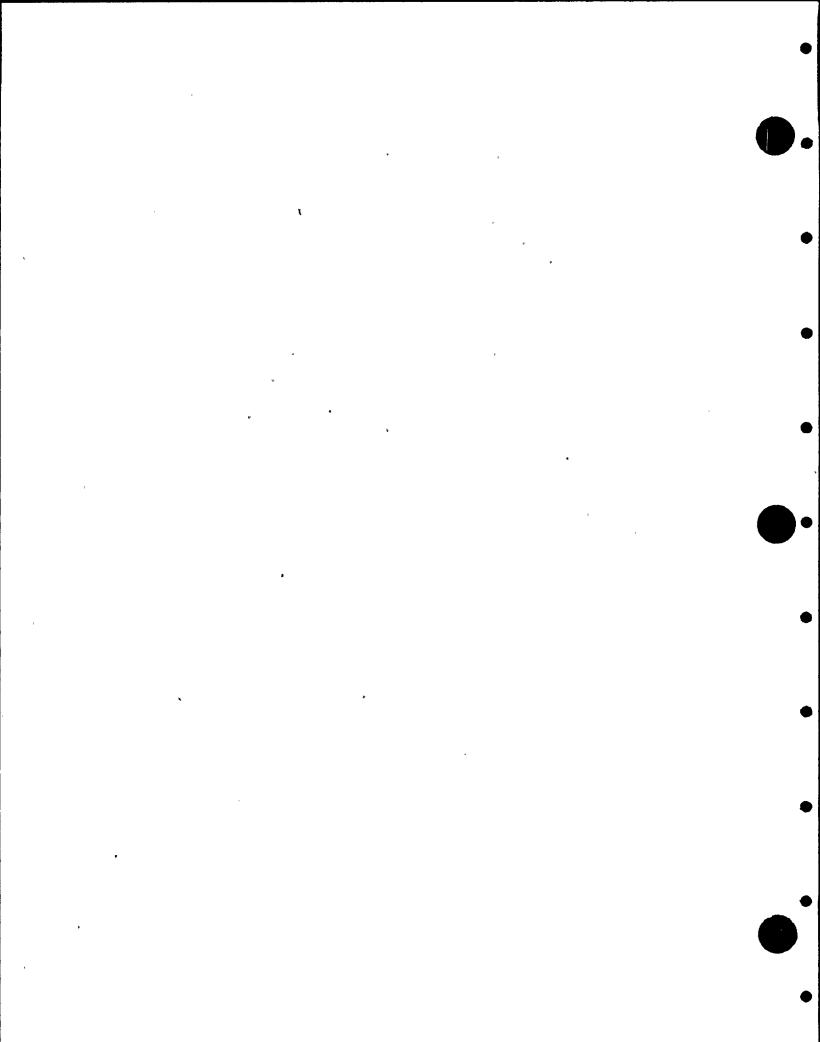
CODE CATEGORY	IDENTIFICATION NO.	DESCRIPTION	ISI DRAWING	METHOD	EXAM. DATE
B-G-1	RPV NUT 36-1-67A	RPV NUT	RPV-101	SUR	19900519
	RPV NUT 36-1-74A	RPV NUT	RPV-101	VOL	19900519
	RPV NUT 36-1-74A	RPV NUT	RPV-101	SUR	19900519
	COUNT =	44			,
8-G-2	6SPARE-1BU	FLANGE BOLTING	RPV-102	VT-1	19900521
	CRD HOUSING 38-59 BLT	CRD HOUSING BLT	RPV-102	VT-1	19900511
	CRD HOUSING 18-55 BLT	CRD HOUSING BLT	RPV-102	VT-1	19900511
	CRD HOUSING 34-55 BLT	CRD HOUSING BLT	RPV-102	VT-1	19900511
	CRD HOUSING 10-51 BLT	CRD HOUSING BLT	RPV-102	VT-1	19900504
	CRD HOUSING 14-51 BLT	CRD HOUSING BLT	RPV-102	VT-1	19900504
	CRD HOUSING 26-51 BLT-	CRD HOUSING BLT	RPV-102	VT-1	19900421
	CRD HOUSING 10-47 BLT	CRD HOUSING BLT	RPV-102	VT-1	19900505
	CRD HOUSING 26-47 BLT	CRD HOUSING BLT	RPV-102	VT-1	19900505
	CRD HOUSING 34-47 BLT	CRD HOUSING BLT	RPV-102	VT-1	19900519
	CRD HOUSING 14-43 BLT	CRD HOUSING BLT	RPV-102 .	VT-1	19900505
	CRD HOUSING 38-43 BLT	CRD HOUSING BLT	RPV-102	VT-1	19900511
	CRD HOUSING 02-39 BLT	CRD HOUSING BLT	RPV-102 -	VT-1	19900504
	CRD HOUSING 14-39 BLT	CRD HOUSING BLT	RPV-102	VT-1	19900505
	CRD HOUSING 18-39 BLT	CRD HOUSING BLT	RPV-102	V T - 1	19900511
	CRD HOUSING 22-35 BLT	CRD HOUSING BLT	RPV-102	VT-1	19900511
	CRD HOUSING 26-35 BLT	CRD HOUSING BLT	RPV-102	VT-1	19900511
	CRD HOUSING 10-27 BLT	CRD HOUSING BLT	RPV-102	VT-1	19900519
	CRD HOUSING 14-27 BLT	CRD HOUSING BLT	RPV-102	VT-1	19900519
	CRD HOUSING 42-27 BLT	CRD HOUSING BLT	RPV-102	VT-1	19900519
,	CRD HOUSING 10-23 BLT	CRD HOUSING BLT	RPV-102	VT-1	19900505
	CRD HOUSING 14-23 BLT	CRD HOUSING BLT	RPV-102	VT-1	19900504
	CRD HOUSING 18-23 BLT	CRD HOUSING BLT	RPV-102	VT-1	19900519
	CRD HOUSING 34-23 BLT	CRD HOUSING BLT	RPV-102	VT-1	19900519
	CRD HOUSING 02-19 BLT	CRD HOUSING BLT	RPV-102	VT-1	19900511
	CRD HOUSING 06-19 BLT	CRD HOUSING BLT	RPV-102	VT-1	19900504
	CRD HOUSING 26-19 BLT	CRD HOUSING BLT	RPV-102	VT-1	19900519
	CRD HOUSING 34-19 BLT	CRD HOUSING BLT	RPV-102	VT-1	19900519
					Dags 2 of 10

Page 3 of 16



CODE CATEGORY	IDENTIFICATION NO.	DESCRIPTION	ISI DRAWING	METHOD	EXAM. DATE
6-G-2 .	CRD HOUSING 38-19 BLT CRD HOUSING 06-15 PLT CRD HOUSING 14-11 BLT CRD HOUSING 34-11 BLT CRD HOUSING 18-03 BLT CRD HOUSING 26-03 BLT CRD HOUSING 34-03 BLT CRD HOUSING 42-03 BLT RCIC-V-64-BLT	CRD HOUSING BLT VALVE BOLTING	RPV-102 RPV-102 RPV-102 RPV-102 RPV-102 RPV-102 RPV-102 RPV-102 RCIC-101	VT-1 VT-1 VT-1 VT-1 VT-1 VT-1 VT-1 VT-1	19900519 19900504 19900505 19900519 19900519 19900511 19900511
	COUNT =	37			
ყ-ე	4RCIC(13)-4	PIPE TO EL	RCIC-101	VOL	19900503
	4RCIC(13)-5	EL TO PIPE	RCIC-101	VOL	19900503
	4RCIC(13)-6	PIPE TO PIPE	RCIC-101	VOL	19900503
	4RCIC(13)-7	PIPE TO PIPE	RCIC-101	VOL	19900503
	4RCIC(13)-8	PIPE TO PIPE	RCIC-101	VOL	19900503
	4RCIC(13)-9	PIPE TO PIPE	RCIC-101	VOL	19900503
	,4RCIC(13)-10	PIPE TO PIPE	RCIC-101	VOL	19900503
	4RCIC(13)-11	PIPE TO PIPE	RCIC-101	VOL	19900503
	26MS(1)C-3	PIPE TO EL	MS-103	VOL	19900430
	26HS(1)C-3	PIPE TO EL	MS-103	SUR	19900430
	26MS(1)C-3LDI	EL SEAM	MS-103	VOL	19900430
	26MS(1)C-3LDI	EL SEAM	MS-103	SUR	19900430
	26MS(1)C-3LD0	EL SEAM	MS-103	VOL	19900430
	26MS(1)C-3LD0	EL SEAM	MS-103	SUR	19900430
	26MS(1)D-3	PIPE TO EL	MS-104	VOL	19900430
	26MS(1)D-3	PIPE TO EL	MS-104	SUR	19900430
	26MS(1)D-3LDI	EL SEAM	MS-104	VOL	19900430
	26MS(1)D-3LDI	EL SEAM	MS-104	SUR	19900430
*	26MS(1)D-3LDO	EL SEAM	MS-104	VOL	19900430
	26MS(1)D-3LD0	EL SEAM	MS-104	SUR	19900430
	26MS(1)D-4LUI	EL SEAM	MS-104	VOL	19900430
¥	26MS(1)D-4LUI	EL SEAM	MS-104	SUR	19900430

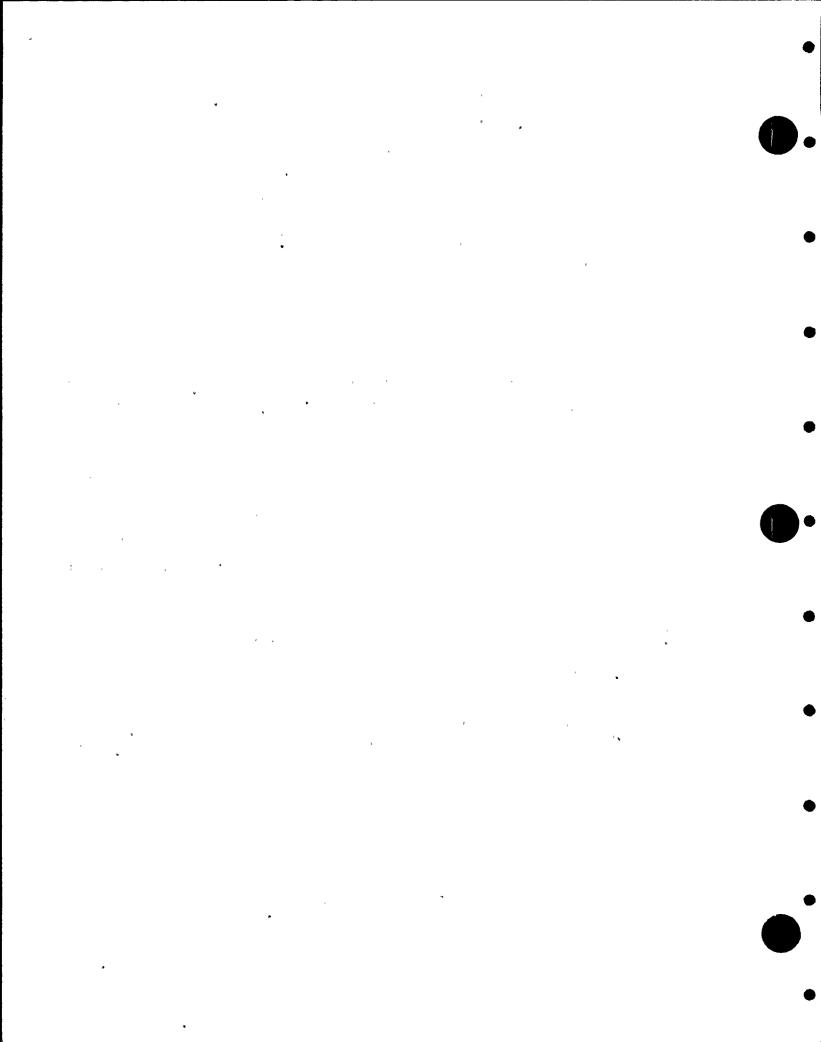
Page 4 of 16

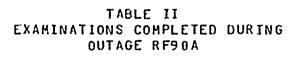




CODE CATEGORY	IDENTIFICATION NO.	DESCRIPTION	ISI DRAWING	METHOD	EXAM. DATE
B-J	26MS(1)D-4LU0	EL SEAM	MS-104	VOL	19900430
	26MS(1)D-4LU0	EL SEAM	MS-104	SUR	19900430
	26MS(1)D-4	EL TO PIPE	MS-104	VOL	19900430
	26NS(1)D-4	EL TO PIPE	MS-104	SUR	19900430
	26MS(1)D-5	PIPE TO PIPE	MS-104	VOL	19900522
	26MS(1)D-5	PIPR YO PIPE	MS-104	SUR	19900522
	24RFW(1)A-9	VALVE TO PIPE	RFW-101	VOL	19900508
	24RFW(1)A-9	VALVE TO PIPE	RFW-101	SUR	19900508
	24RFW(1)A-12	EL TO PIPE	RFW-101	VOL	19900516
	24RFW(1)A-12	EL TO PIPE	RFW-101	SUR	19900509
	12RF%(1)AB-3	EL TO PIPE	RFW-101	. VOL	19900517
	12RFW(1)AB-3	EL TO PIPE	RFW-101	SUR	19900516
	12RFW(1)AA-1	REDUCER TO PIPE	RFW-101	VOL	19900517
	12RFW(1)AA-1	REDUCER TO PIPE	RFW-101	SUR	19900515
	12RFW(1)AA-3	EL TO PIPE	RFW-101	VOL	19900517
	12RFW(1)AA-3	EL TO PIPE	RFW-101	SUR	19900515
	12RFW(1)AA-4	PIPE TO EL	RFW-101	VOL	19900517
	12RFW(1)AA-4	PIPE TO EL	RFW-101	SUR	19900509
	12RFW(1)AA-8	PIPE TO SE EXT	RFW-101	VOL	19900521
	12RFW(1)AA-8	PIPE TO SE EXT	RFW-101	SUR	19900519
<b>A</b>	24RFW(1)B-12	EL TO PIPE	RFW-102	VOL	19900516
	24RFV(1)B-12	EL TO PIPE	RFW-102	SUR	19900516
	12RFW(1)RD-4	PIPE TO EL	RFW-102	VOL	19900517
	12RFW(1)BD-4	PIPE TO EL	RFW-102	SUR	19900516
	12RFW(1)BD-7	EL TO PIPE	RFW-102	VOL	19900521
	12RFV(1)BD-7	EL TO PIPE	RFW-102	SUR	19900521
	12RF%(1)8D-8	PIPE TO SE EXT	RFW-102	VOL	19900521
	12RFW(1)BD-8	PIPE TO SE EXT	RFW-102	SUR	19900519
	6RFW(11)-4	PIPE TO EL	RFW-103	VOL	19900518
•	6RFW(11)-4	PIPE TO EL	RFW-103	SUR	19900517
	6RFW(11)-5	EL TO PIPE	RFW-103	VOL	19900518
	6RFW(11)-5	EL TO PIPE	RFW-103	SUR	19900517
	6RFW(11)-6	PIPE TO EL	RFW-103	VOL	19900518
	6RFW(11)-6	PIPE TO EL	RFW-103	SUR	19900517

Page 5 of 16





CODE CATEGORY	IDENTIFICATION NO.	DESCRIPTION	ISI DRAWING	METHOD	EXAM. DATE
B-J	6RFW(11)-7	EL TO PIPE	RFN-103	VOL	19900518
•	6RFW(11)-7	EL TO PIPE	RFW-103	SUR	19900517
	6RFW(11)-8	PIPE TO TEE	RFW-103	VOL	19900518
	6RFW(11)-8	PIPE TO TEE	RFW-103	SUR	19900517
	6RFW(11)-9	TEE TO PIPE	RFW-103	VOL	19900518
	6RFW(11)-9	TEE TO PIPE	RFW-103	SUR	19900517
	6RFW(11)-10	PIPE TO REDUCER	RFW-103	VOL	19900518
	6RFW(11)-10 .	PIPE TO REDUCER	RFW-103	SUR	19900517
	4RFW(11)B-1	REDUCER TO PIPE	RFW-103	VOL	19900518
	4RFW(11)B-1	REDUCER TO PIPE	RFW-103	SUR	19900517
	4RFW(11)B-1A	PIPE TO PIPE	RFW-103	VOL	19900528
	4RFW(11)B-1A	PIPE TO PIPE	RFW-103	SUR	19900517
	4RFW(11)B-2	PIPE TO EL	RFW-103	VOL	19900518
	4RFW(11)B-2	PIPE TO EL	RFW-103	SUR	19900517
	4RFW(11)B-3	EL TO PIPE	RFW-103	VOL	19900518
	4RFW(11)B-3	EL TO PIPE	RFW-103	SUR	19900517
	4RFW(11)B-4	PIPE TO EL	RFW-103	VOL	19900518
	4RFW(11)B-4	PIPE TO EL	PFW-103	SUR	19900517
	4RFW(11)8-5	EL TO SLEEVE	RFW-103	VOL	19900518
	4RFW(11)B-5	EL TO SLEEVE	RFW-103	SUR	19900517
	16RRC(1)A-1/12RRC(1)-N2D	PIPE TO SWL	RRC-101	VOL	19900503
	16RRC(1)A-1/12RRC(1)-N2D	PIPE TO SWL	RRC-101	SUR	19900501
	16RRC(1)A-1/12RRC(1)-N2E	PIPE TO SWL	RRC-101	VOL	19900503
	16RRC(1)A-1/12RRC(1)-N2E		RRC-101	SUR	19900501
	16RRC(1)A-2	PIPE TO CAP	RRC-101	VOL	19900503
	16RRC(1)A-3	CROSS TO PIPE	RRC-191	VOL	19900503
	16RRC(1)A-3/12RRC(1)-N2B	PIPE TO SWL	RRC-101	VOL	19900503
	16RRC(1)A-3/12RRC(1)-N2B		RRC-101	\$UR	19900502
	16RRC(1)A-3/12RRC(1)-N2A	PIPE TO SWL	RRC-101	VOL	19900503
	16RRC(1)A-3/12RRC(1)-N2A	PIPE TO SWL	RRC-101	SUR	19900501
	15RRC(1)A-4	PIPE TO CAP	RRC-101	VOL	19900503
	12RRC(1)-N2A-1	SWL TO PIPE	RRC-101 .	VOL	19900504
	12RRC(1)-N2A-1	SWL TO PIPE	RRC-101	SUR	19900501
	12RRC(1)-N2A-1LD	PIPE SEAM	RRC-101	VOL	19900501



CODE CATEGORY	IDENTIFICATION NO.	DESCRIPTION	ISI DRAWING	METHOD	EXAM. DATE
B-J	12RRC(1)-N2A-1LD	PIPE SEAM	RRC-101	SUR	19900501
	12RRC(1)-N2A-3	EL TO PIPE	RRC-101	VOL	19900504
	12RRC(1)-N2B-3	EL TO PIPE	RRC-101	VOL	19900504
	12RRC(1)-N2C-1	REDUCER TO PIPE	RRC-101	VOL	19900504
	12RRC(1)-N2C-1	REDUCER TO PIPE	RRC-101	SUR	19900502
	12RRC(1)-N2C-1LD	PIPE SEAM	RRC-101	VOL	19900505
	12RRC(1)-N2C-1LD	PIPE SEAM	RRC-101	SUR	19900502
	12RRC(1)-N2C-1A	PIPE TO PIPE	RRC-101	VOL	19900504
	12RRC(1)-N2C-1ALD	PIPE SEAM	RRC-101	VOL	19900505
	12RRC(1)-N2C-3	EL TO PIPE	RRC-101	VOL	19900504
1	12RRC(1)-N2D-1	SWL TO PIPE	RRC-101	VOL	19900505
	12RRC(1)-N2D-1	SWL TO PIPE	RRC-101	SUR	19900501
	12RRC(1)-N2D-1LD	PIPE SEAM	RRC-101	VOL	19900505
	12RRC(1)-N2D-1LD	PIPE SEAM	RRC-101	SUR	19900501
	20RRC(6)-2LU	PIPE SEAM	RRC-105	VOL	19900504
	20RRC(6)-2LU	PIPE SEAM	RRC-105	SUR	19900504
	20RRC(6)-2	PIPE TO EL	RRC-105	VOL	19900504
	20RRC(6)-2	PIPE TO EL	RRC-105	SUR	19900504
	20RRC(6)-2LDI	EL SEAM	RRC-105	VOL	19900504
	20RRC(6)-2LDI	EL SEAM	RRC-105	SUR	19900504
	20RRC(6)-2LD0	EL SEAM	RRC-105	VOL	19900504
	20RRC(6)-2LD0	EL SEAM	RRC-105	SUR	19900504
	COUNT =	112			
8-K-1	MS-HC-1(W)	4 WELDED LUGS	MS-103	SUR	19900521
	MS-HD-1(W)	4 WELDED LUGS	MS-104	SUR	19900521
	RWCU-1C-4PS(W)	8 WELDED LUGS	RWCU-101	SUR	19900509
	RWCU-1C-3(W)	8 WELDED LUGS	RWCU-101	SUR	19900507
	COUNT =	4			
B-M-2	LPCS-V-6-BDY	VALVE BODY	LPCS-101	VT-3	19900514
	MS-V-28C-BDY	VALVE BODY	MS-103	VT-3	19900508
					Page 7 of 16

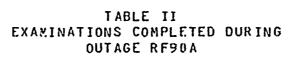
Page 7 of 16

TABLE II
EXAMINATIONS COMPLETED DURING
OUTAGE RF90A

CODE CATEGORY	IDENTIFICATION NO.	DESCRIPTION	ISI DRAWING	METHOD	EXAM. DATE
	RRC-V-60 A-BDY	VALVE BODY	RRC-101	VT-3	19900608
	COUNT =	3		•	
B-N-1	RPV INTERIOR	RPV INTERIOR *	RPV-101	VT-3	19900504
	COUNT =	1	•		•
B-P	RPV-PB-101(L)	LK PRES BNDRY	RPV-101	VT-2	19900804
	RPV-PB-102(L)	LK PRES BNDRY	RPV-102	VT-2	19900804
	RCIC-PB-101(L)	LK PRES BNDRY	RCIC-101	VT-2	19900804
	RCIC-PB-102(L)	LK PRES BNDRY	RCIC-102	VT-2	19900804
	HPCS-P6-101(L)	LK PRES BNDRY	HPCS-101	VT-2	19900804
	LPCS-PB-101(L)	LK PRES BNDRY	LPCS-101	VT-2	19900804
¥	RHR-P8-101(L)	LK PRES BNDRY	RHR-101	VT-2	19900804
	RHR-P8-102(L)	LK PRES BNDRY	RHR-102	VT-2	19900804
	RHR-PB-103(L)	LK PRES BNDRY	RHR-103	VT-2	19900804
	RHR-PB-104(L)	LK PRES BNDRY	RHR-104	VT-2	19900804
	RHR-PB-105(L)	LK PRES BNDRY	RHR-105	VT-2	19900804
	RHR-P8-106(L)	LK PRES BNDRY	RHR-106	VT-2	19900804
3	MS-PB-101(L)	LK PRES BNDRY	MS-101	VT-2	19900804
•	MS-PB-102(L)	LK PRES BNDRY	MS-102	VT-2	19900804
	MS-PB-103(L)	LK PRES BNDRY	MS-103	VT-2	19900804
	MS-PB-104(L)	LK PRES BNDRY	·MS-104	VT-2	19900804
	MS-P8-105(L)	LK PRES BNDRY	MS-105	VT-2	19900804
	MS-P8-106(L)	LK PRES BNDRY	MS-106	VT-2	19900804
	RFW-PB-101(L)	LK PRES BNDRY	RFW-101	VT-2	19900804
	RF4-PB-102(L)	LK PRES BNDRY	RFW-102	VT-2	19900804
	RFW-PB-103(L)	LK PRES BNDRY	RFW-103	VT-2	19900804
	RRC-PB-101(L)	LK PRES BNDRY	RRC-101	VT-2	19900804
	RRC-PB-102(L)	LK PRES BNDRY	RRC-102	VT-2	19860607
	RRC-PB-103(L)	LK PRES BNDRY	RRC-103	VT-2	19900804
	RRC-PB-104(L)	LK PRES BNDRY	RRC-104	VT-2	19900804
	RRC-PB-105(L)	LK PRES BNDRY	RRC-105	VT-2	19900804

<sup>\*</sup> Limited to two surv. specimen holders and RPV top head steam dryer holddown lugs (4).

Page 8 of 16

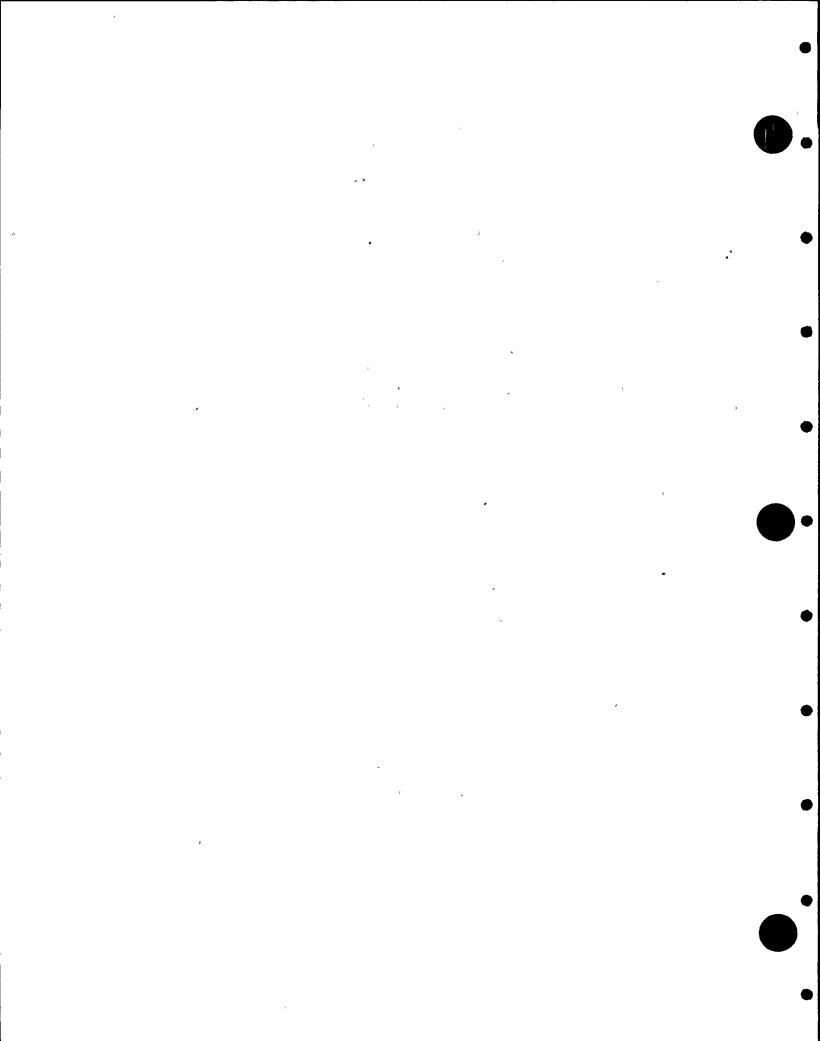


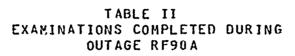
CODE CATEGORY	IDENTIFICATION NO.	DESCRIPTION	ISI DRAWING	METHOD	EXAM. DATE
B-P	RRC-PB-106(L)	LK PRES BNDRY	RRC-106	VT-2	19900804
	RRC-PB-107(L)	LK PRES BNDRY	RRC-107	VT-2	19900804
	RRC-PB-108(L)	LK PRES BNDRY	RRC-108	VT-2	19900804
	RRC-PB-109(L)	LK PRES BNDRY	RRC-109	VT-2	19900804
	RRC-PB-110(L)	LK PRES BNDRY	RRC-110	VT-2	19900804
	RRC-PB-111(L)	LK PRES BNDRY	RRC-111	VT-2	19900804
	RWCU-P8-101(L)	LK PRES BNDRY	RWCU-101	VT-2	19900804
	SLC-PB-101(L)	LK PRESS BNDRY	SLC-101	VT-2	19900804
	COUNT =	34			
C-F-2	6RCIC(1)-82	PIPE TO PIPE	RCIC-205	VOL	19900427
	6RCIC(1)-82	PIPE TO PIPE	RCIC-205	SUR	19900428
	6RCIC(1)-88	PIPE TO ELL	RCIC-205	VOL	19900430
	6RCIC(1)-88	PIPE TO ELL	RCIC-205	SUR	19900430
	6RCIC(1)-99	ELL TO PIPE	RCIC-205	VOL	19900430
	6RCIC(1)-99	ELL TO PIPE	RCIC-205	SUR	19900430
	6RCIC(1)-105	PIPE TO ELBOW	RCIC-205	VOL	19900428
	6RCIC(1)-105	PIPE TO ELBOW	RCIC-205	SUR	19900428
	6RCIC(22)-10	ELL TO TEE	RCIC-205	VOL	19900428
	6RCIC(22)-10	ELL TO TEE	RCIC-205	SUR	19900428
	16HPCS(1)-7	ELL TO PIPE	HPCS-202	VOL	19900428
	16HPCS(1)-7	ELL TO PIPE	HPCS-202	SUR	19900427
	16HPCS(1)-27	PIPE TO EL	HPCS-202	VOL	19900512
	16HPCS(1)-27	PIPE TO ELL	HPCS-202	SUR	19900512
	16LPCS(1)-2/6LPCS(4)-2	BRANCH CONN	LPCS-202	SUR	19900430
	16LPCS(1)-8	ELL TO PIPE	LPCS-202	VOL	19900512
	16LPCS(1)-8	ELL TO PIPE	LPCS-202	SUR	19900511
	12LPCS(3)-5	VLV TO PIPE	LPCS-202	VOL	19900512
	12LPCS(3)-5	VLV TO PIPE	LPCS-202	SUR	19900511
	12LPCS(3)-6	PIPE TO ELL	LPCS-202	VOL	19900512
	12LPCS(3)-6	PIPE TO ELL	LPCS-202	SUR	19900511
	16LPCS(1)-23	PIPE TO PIPE	LPCS-202	VOL	19900512
	16LPCS(1)-23	PIPE TO PIPE	LPCS-202	SUR	19900512

Page 9 Of 16

TABLE II
EXAMINATIONS COMPLETED DURING
OUTAGE RF90A

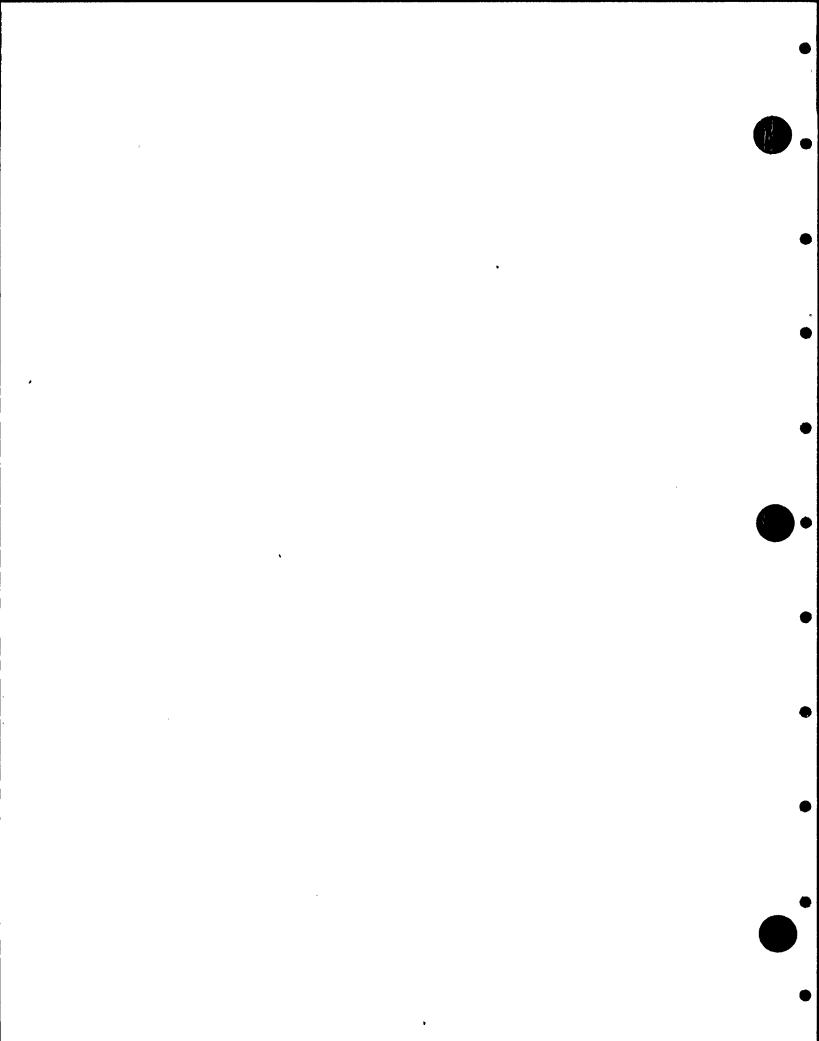
CODE CATEGORY	IDENTIFICATION NO.	DESCRIPTION	ISI DRAWING	METHOD	EXAM. DATE
C-F-2	16LPCS(1)-27	ELL TO PIPE	LPCS-202	VOL	19900520
	16LPCS(1)-27	ELL TO PIPE	LPCS-202	SUR	19900519
	20RHR(1)A-2	PIPE TO NOZZLE	RHR-201	VOL	19900510
	20RHR(1)A-2	PIPE TO NOZZLE	RHR-201	SUR	19900510
	18RHR(11)A-1	TEE TO PIPE	RHR-201	VOL	19900508
	18RHR(11)A-1	TEE TO PIPE	RHR-201	SUR	19900507
	18RHR(11)A-14	PIPE TO TEF	RHR-201	VOL	19900508
	18RHR(11)A-14	PIPE TO TEE	RHR-201	SUR	19900507
	20RHR(1)A-6	PIPE TO REDUCER	RHR-201	VOL	19900508
	20RHR(1)A-6	PIPE TO REDUCER	RHR-201	SUR	19900507
_	18RHR(1)A-47	PIPE TO TEE	RHR-201	VOL	19900508
•	18RHR(1)A-47	PIPE TO TEE	RHR-201	SUR	19900507
	18RHR(1)A-54	PIPE TO TEE	RHR-201	VOL	19900508
	18RHR(1)A-54	PIPE TO TEE	RHR-201	SUR	19900507
	14RHR(1)A-13	EL TO PIPE	RHR-201	VOL -	19900516
	14RHR(1)A-13	EL TO PIPE	RHR-201	SUR	19900516
	COUNT =	39			
D-C	FPC-908N(W)	WELDED ATTACH	FPC-301	VT-3	19900417
	COUNT =	1			
INF	RC1C-72	SPRING	RCIC-101	VT3H	19900503
•	RCIC-1C-16	PSA-3 SNUBBER	RCIC-101	VT3H	19900503
	RCIC-1C-7	PSA-3 SNUBBER	RCIC-101	VT3H	19900503
	RCIC-68	SPRING	RCIC-101	VT3H	19900503
	RCIC-1C-8	PSA-3 SNUBBER	RCIC-101	VT3H	19900503
	RCIC-127	SPRING	RCIC-102	VT3H	19900423
	RCIC-936N	PSA-1 SN(2)	RCIC-102	VT3H	19900423
	RCIC-935N	PSA-1 SNUBBER	RCIC-102	VT3H .	19900423
	RCIC-941N	SPRING	RCIC-102	HETV	19900423
	RCIC-934N	PSA-3 SNUBBFR	RCIC-102	HETV	19900423
	RCIC-933N	PSA-3 SNUBBER	RCIC-102	VT3H	19900423

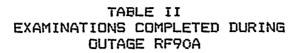




CODE CATEGORY	IDENTIFICATION NO.	DESCRIPTION	ISI DRAWING	METHOD	EXAM. DATE
IWF	RCIC-932N	PSA-1 SN(2)	RCIC-102	<b>VТ</b> 3Н	19900423
	RCIC-128	PSA-3 SNUBBER	RCIC-102	VT3H .	19900423
	RCIC-129	SPRING	RCIC-102	VT3H	19900423
	RCIC-955N	вох	RCIC-205	VT3H	19900427
Ŧ	RCIC-954N	ВОХ	RCIC-205	V T 3H	19900427
	RCIC-22	BOX	RCIC-205	VT3H	19900427
	RCIC-952N	BOX	RCIC-205	· VT3H	19900427
	RCIC-29	ANCHOR	RCIC-205	VT3H	19900427
	RCIC-86	SPRING	RCIC-205	VT3H	19900428
v	RC1C-88	BOX	RCIC-205	VT3H	19900428
	RCIC-90	STRUT	RC1C-205	VT3H	19900428
•	RCIC-91	ANCHOR	RCIC-205	VT3H	19900428
	RC1C-93	BOX	RCIC-205	VT3H	19900428
	RCIC-95	B0 X	RCIC-205	VT3H	19900428
	RCIC-97	SPRING	RCIC-205	VT3H	19900428
	RCIC-98	STRUT	RCIC-205	VT3H	19900428
	RCIC-99	STRUT	RCIC-205	VT3H	19900428
	RCIC-100	PSA-1/2 SN(2)	RCIC-205	VT3H	19900428
	HPCS-1	SPRING	HPCS-202	VT3H	19900417
	HPCS-23	SPRING	HPCS-202	VT3H	19900417
	HPCS-21	RÌGID	HPCS-202	VT3H	19900417
	HPCS-20	RIGID	HPCS-202	VT3H	19900417
	HPCS-903N	STRUT	HPCS-202	VT3H	19900423
	HPCS-24	STRUT	HPCS-202	VT3H	19900423
	HPCS-25	SPRING	HPCS-202	VT3H	19900420
	HPCS-26	STRUT	HPCS-202	VT3H	19900420
1	HPCS-27	STRUT	HPCS-202	VT3H	19900420
	HPCS-28	BOX	HPCS-202	VT3H	19900420
	HPCS-917N	STRUT	HPCS-202	VT3H	19900420
	HPCS-915N	STRUT	HPCS-202 ·	VT3H	19900420
	HPCS-909N	STRUT	HPCS-202	VT3H	19900420
	LPCS-38	BOX	LPCS-202	VT3H	19900417
	LPCS-39	80 X	LPCS-202	^VT3H	19900417
	LPCS-11	SPRING	LPCS-202	<b>VТ3</b> Н	19900417

Page 11 of 16





CODE CATEGORY	IDENTIFICATION NO.	DESCRIPTION	ISI DRAWING	METHOD	EXAM. DATE (Y/M/
IWF	LPCS-12	BOX	LPCS-202	YT3H	19900417
4	LPCS-14	ANCHOR	LPCS-202	HETV	19900417
	LPCS-17	BOX	LPCS-202	VT3H	19900417
	LPCS-20	STRUT	LPCS-202	HETV	19900418
	LPCS-41	STRUT	LPCS-202	HETV	19900418
	LPCS-42	BOX	LPCS-202	HETV	19900418
	LPCS-22	RIGID	LPCS-202	VT3H	19900418
	LPCS-23 ·	SPRING	LPCS-202	HETV	19900418
	LPCS-24	BOX	LPCS-202	HETV	19900418
	LPCS-25	SPRING	LPCS-202	HETV	19900418
	LPCS-903N	ANCHOR	LPCS-202	HETV	19900418
	RHR-601	STRUT	RHR-201	HETV	19900430
	RHR-600	STRUT	RHR-201	HETV	19900430
	RHR-598	SPRING ·	RHR-201	HETY	19900430
	RHR-237	STRUT	RHR-201	HETV	19900430
	RHR-234	BOX	RHR-201	HETV	19900430
	RHR-1004N	STRUT	RHR-201	_ VT3H	19900430
	RHR-235	PSA-10 SNUBBER	RHR-201 .	VT3H	19900430
	RHR-350	SPRING	RHR-201	YT3H	17700430
	RHR-965N	ANCHOR	RHR-201	HETV	19900430
•	RHR-1017N	STRUT	RHR-201	HETV	19900430
	RHR-240	BOX	RHR-201	HETV	19900516
	RHR-964N	ANCHOR	RHR-201	YT3H	19900516
	MS-HC-1	SPRING (2)	MS-103	HETV	19900521
	MS-5C-6	PSA-35 SNUBBER	MS-103	VT3H	19900521
	M5-5C-7	PSA-35 SNUBBER	M5-103	YT3H	19900521
	MS-SC-5	PSA-35 SNUBBER	MS-103	YT3H	19900502
	MS-SC-8	FSA-35 SNUBBER	MS-103	YT3H	19900502
	MS-HC-2	SPRING	M5-103	VT3H	19900521
	MS-SD-6	PSA-35 SNUBBER	M5-104	VT3H	19900502
	M5-5D-7	PSA-35 SNUBBER	M5-104	VT3H	19900521
	MS-SD- <b>5</b>	PSA-35 SNUBBER	M5-104	VT3H	19900502
	MS-SD-9	PSA-35 SNUBBER	MS-104	YT3H	19900507
	MS-260	SPRING	MS-105	НЕТУ	19900502

Page 12 of 16

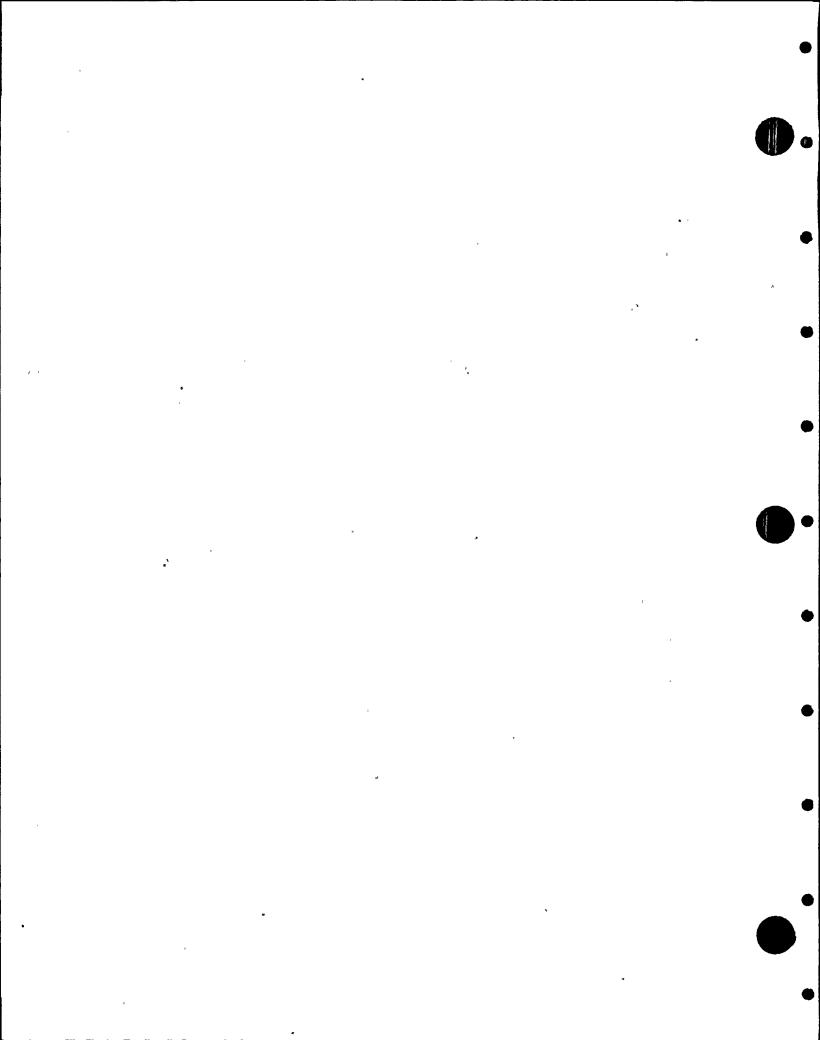




TABLE II
EXAMINATIONS COMPLETED DURING
OUTAGE RF90A

CODE CATEGORY	IDENTIFICATION NO.	DESCRIPTION	ISI DRAWING	METHOD	EXAM. DATE
IWF	MS-1C-1PS	STRUT	MS-105	~ VT3H	19900515
	MS-261	SPRING .	MS-105	VT3H	19900502
	MS-155	STRUT	MS-202	VT3H	19900425
	MS-178	SPRING	MS-202	VT3H	19900425
_	MS-179	STRUT(2)	MS-202	VT3H	19900425
	MS-152	SPRING (2)	MS-202 .	VT3H	19900425
	MS-151	PSA-3 SN(2)	MS-202	VT3H	19900525
	MS-150	STRUT -	MS-202	VT3H	19900525
	MS-149	SPRING (2)	MS-202	VT3H	19900425
	MS-146	SPRING (2)	MS-202	VT3H	19900425
	MS-144	SPRING	MS-202	VT3H	19900430
	MS-142	SPRING	MS-202	VT3H	19900430
	MS-31	STRUT	MS-203	VT3H	19900425
	MS-30	SPRING (2)	MS-203	VT3H	19900425
	MS-49	SPRING	MS-203	VT3H	19900425
	MS-28	SPRING	MS-203	VT3H	19900430
	MS-141	SPRING	MS-203	VT3H	19980430
	MS-24	SPRING	MS-203	VT3H	19900430
	MS-55	SPRING (2)	-MS-204	VT3H	19900512
	RFW-152	SPRING	RFW-101	VT3H	19900514
	RFU-151	PSA-35 SNUBBER	RFW-101	VT3H	19900514
	RFW-929N	PSA-10 SNUBBER	RFW-101	VT3H	19900514
	RFK-159	SPRING	RFW-101	VT3H	19900522
	RFV-182	SPRING	RFW-102	VT3H	19900514
	RFW-184	SPRING	RFW-102	VT3H	19900522
	RFW-173	SPRING	RFW-102	VT3H	19900514
	RFW-171	PSA-10 SNUBBER	RFW-192	VT3H	19900514
	RFW-915N	PSA-10 SNUBBER	RF4-102	VT3H	19900514
	RFW-183	SPRING	RFW-102	VT3H	19900522
	RFW-177	SPRING	RFW-103	VT3H	19900518
	RFW-181	SPRING	RFW-103	VT3H	19900517
	RRC-HA-9	SPRING	RRC-101	VT3H	19900501
	RRC-SA-13	PSA-35 SNUBBER	RRC-101	VT3H	19900501
	RRC-SA-11	PSA-35 SNUBBER	RRC-101	VT3H	19900501

Page 13 of 16



• 1

,

TABLE II
EXAKINATIONS COMPLETED DURING
OUTAGE RF90A

CODE CATEGORY	IDENTIFICATION NO.	DESCRIPTION	IS1 DRAWING	METHOD	EXAM. DATE
IWF	RRC-HA-8	SPRING	RRC-101 ·	VT3H	19900501
	RRC-SA-12	PSA-35 SNUBBER	RRC-101	VT3H	19900501
	RRC-SA-14	PSA-35 SNUBBER	RRC-101	VT3H	19900501
	RRC-1	SPRING	RRC-105	VT3H	19900507
	RHR-SA-50	PSA-35 SNUBBER	RRC-105	VT3H	19900507
	RWCU-1C-4PS	STRUT	RWCU-101	VT3H	19900509
	RWCU-1C-3	PSA-3 SN(2)	RWCU-101	VT3H	19900507
	FPC-170	вох	FPC-201	VT3H	19900417
	FPC-172	Box	FPC-201	VT3H	19900417
	FPC-237	BOX	FPC-201	VT3H	19900417
	FPC-238	BOX	FPC-201	VT3H	19900417
	FPC-239	BOX	FPC-201	VT3H	19900417
	FPC-57	BOX	FPC-301	VT3H	19900426
	FPC-58	B0 X	FPC-301	VT3H	19900512
	FPC-919N	RIGID	FPC-301	VT3H	19900512
,	FPC-59	BOX	FPC-301	VT3H	19900512
	FPC-60	BOX	FPC-301	VT3H	19900418
	FPC-61	SPRING	FPC-301	VT3H	19900418
	FPC-62	вох	FPC-301	VT3H	19900420
	FPC-909N	RIGID	FPC-301	VT3H	19900417
	FPC-908N -	PSA-1 SN(2)	FPC-301	VT3H	19900425
	FPC-41	SPRING	FPC-301	VT3H	19900417
	FPC-40	STRUT	FPC-301	VT3H	19900417
	FPC-39	SPRING	FPC-301	VT3H	19900417
1	FPC-208	BOX	FPC-302	VT3H	19900420
	FPC-193	SPRING	FPC-303	VT3H	19900420
	FPC-207	BOX	FPC-303	VT3H	19900420
	FPC-192	BOX	FPC-303	VT3H	19900420
	FPC-191	BOX	FPC-303	VT3H	19900410
	FPC-188	BOX	FPC-303	VT3H	19900420
	FPC-189	SPRING	FPC-303	VT3H	19900420
	FPC-102	RIGID	FPC-304	VT3H	19900417
	FPC-103	RIGID	FPC-304	VT3H	19900417
	FPC-104	RIGID	FPC-304	VT3H	19900417

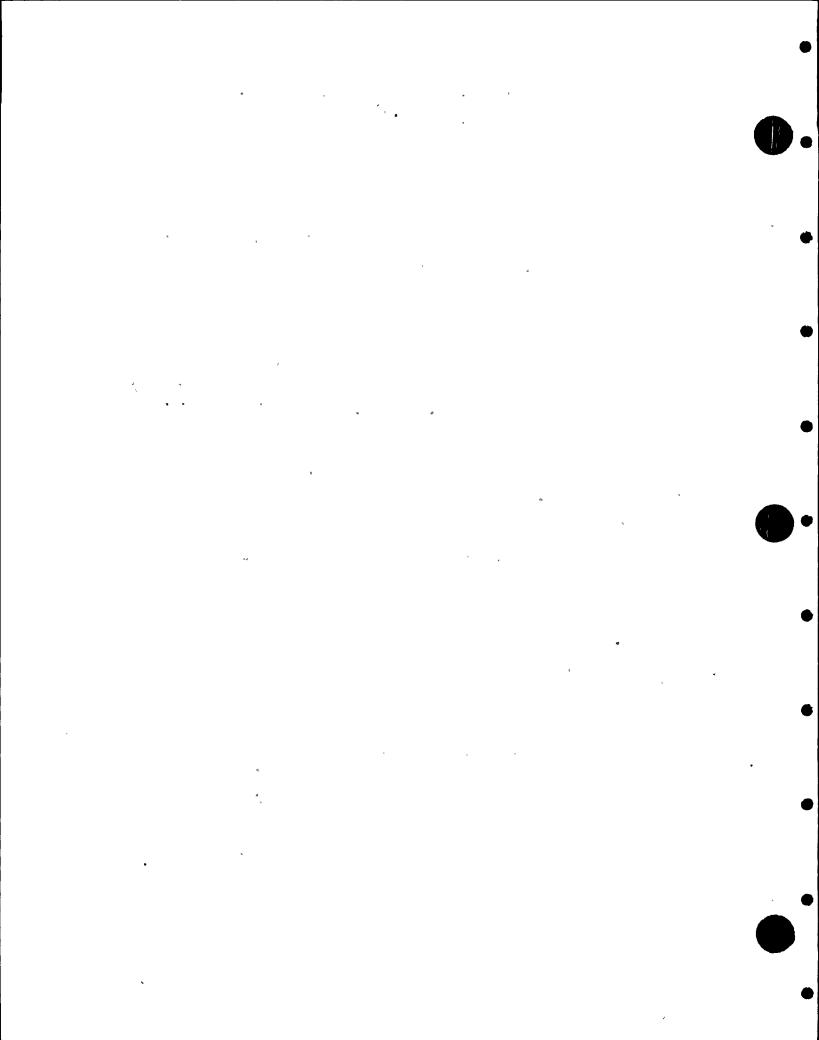
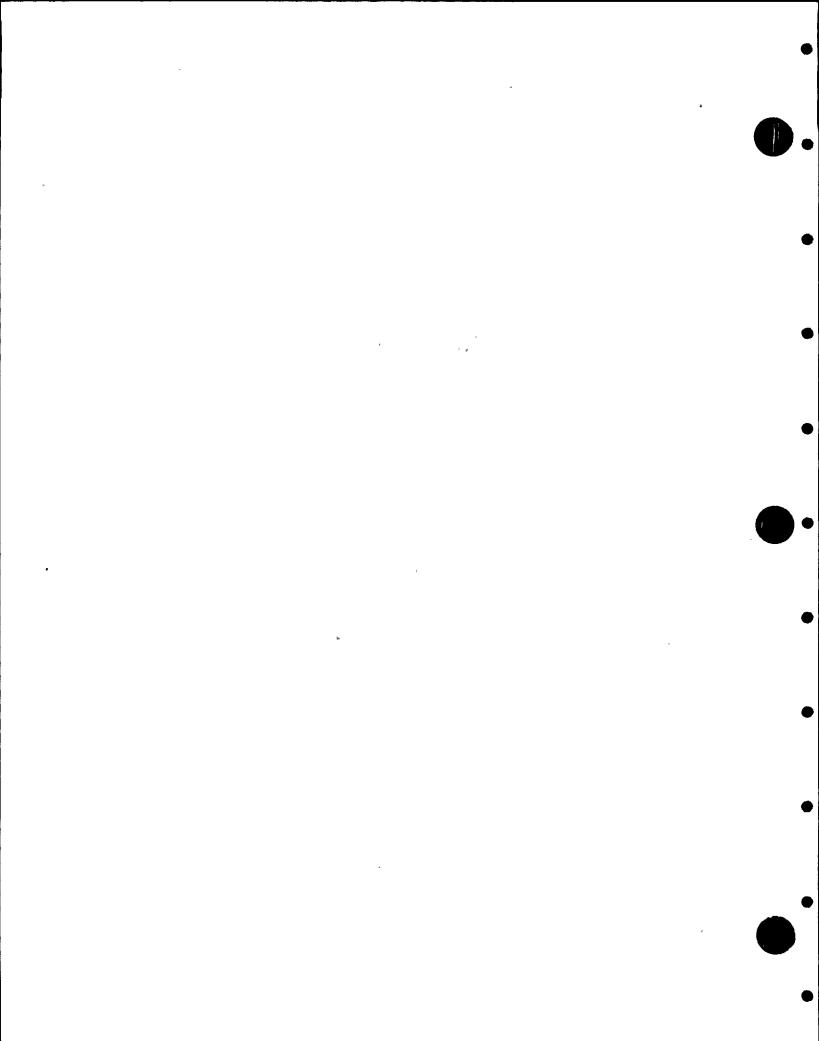


TABLE II
EXAMINATIONS COMPLETED DURING
OUTAGE RF90A

CODE CATEGORY	IDENTIFICATION NO.	DESCRIPTION	ISI DRAWING	METHOD	EXAM. DATE
IWF	FPC-105	RIGID .	FPC-304	VT3H	19900417
	FPC-106	RIGID	FPC-304	VT3H	19900417
	FPC-107	RIGID	FPC-304	VT3H	19900417
	FPC-108	RIGID	FPC-304	VT3H	19900417
	FPC-109	RIGID	FPC-304	VT3H	19900417
	FPC-110	RIGID	FPC-304	VT3H	19900417
	FPC-111	вох	FPC-304	VT3H	19900417
	FPC-113 .	BOX	FPC-304	VT3H	19900417
	FPC-92	RIGID	FPC-305	VT3H	19900417
	FPC-91	STRUT	FPC-305	VT3H	19900417
	FPC-77	RIGID	FPC-305	VT3H	19900417
	FPC-76	BOX	FPC-305	VT3H	19900417
	FPC-75	RIGID	FPC-305	VT3H	19900417
	FPC-74	RIGID	FPC-305	VT3H	19900417
	FPC-73	BOX	FPC-305	VT3H	19900417
	FPC-72 ·	RIGID	FPC-305	VT3H	19900417
	FPC-71	Box	FPC-305	VT3H	19900417
	FPC-68	RIGID	FPC-305	VT3H	19900417
	SLC-4453-24	RIGID	SLC-101	VT3H	19900417
	SLC-4453-25A	RIGID	SLC-101	VT3H	19900417
	SLC-4453-26B	RIGID	SLC-101	VT3H	19900417
	SLC-4453-214	RIGID	SLC-101	VT3H	19900417
	SLC-4453-215	RIGID	SLC-101	VT3H	19900417
	SLC-4453-29	RIGID	SLC-101	VT3H	19900417
	SLC-4453-210	RIGID	SLC-101	VT3H	19900417
	SLC-4453-211	RIGID	SLC-101	VT3H	19900417
	SLC-4453-212	RIGID	SLC-101	VT3H	19900417
	SLC-4453-213	RIGID	SLC-101	VT3H	19900417
	SLC-4453-31	RIGID	SLC-101	VT3H	19900417
	SLC-4453-32	RIGID	SLC-101	VT3H	19900417
	COUNT =	177			
N/A	INCORE DRY TUBES	INCORE DRY TUBE	RPV-101	V T -1	19900503

Page 15 of 16

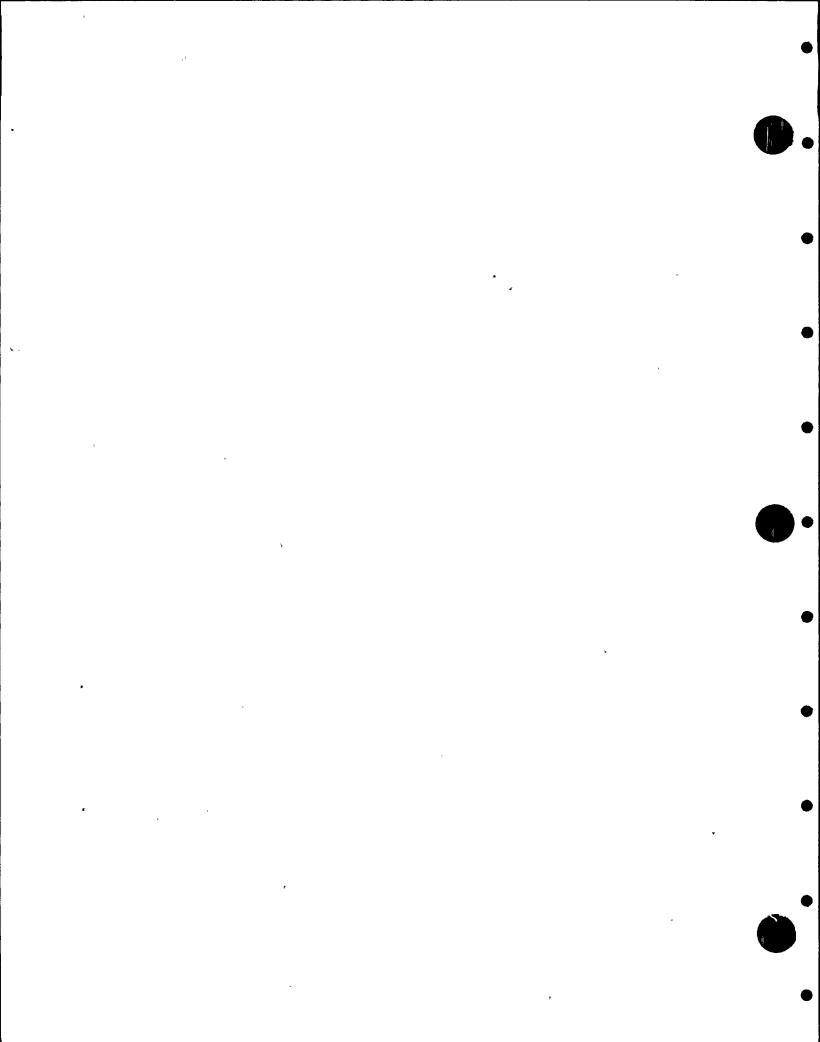


# TABLE II EXAMINATIONS COMPLETED DURING OUTAGE RF90A

CODE CATEGORY	IDENTIFICATION NO.	DESCRIPTION	IST DRAWING	METHOD	EXAM. DATE
N/A	CORE SPRAY SPARGERS	CORE SPRAY SPG	RPV-101	VT-1	19900521
	STEAM DRYER	STEAM DRYER	RPV-101	VT-1	19900512
	24CSP(1)-5	ELL TO PENETRA	MISC	VOL	19900518

COUNT = 4

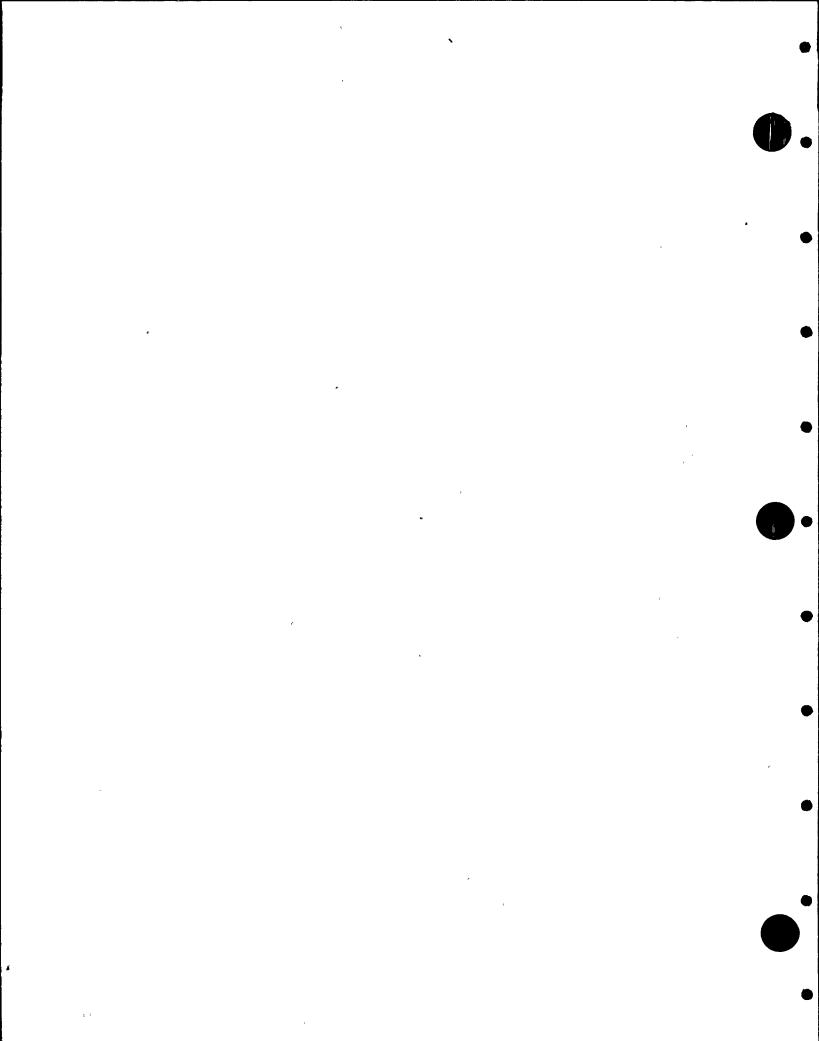
TOTAL COUNT = 474





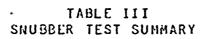
HANGER MARK NO. (& POSITION) DESCRIPTION & SERIAL NO.		TEST DATE YR/MO/DA	TEST RESULT ACC/REJ	REPLACEMENT SERIAL NO.	RETEST NEXT OUTAGE: Y/N	
CEP-905S PSA-1/2 SNUBBER	4013	19900424	ACC		NO	
DE-23 PSA-3 SNUBBER	2381	19900423	ACC		NO	
FPC-227 PSA-3 SNUBBER	2365	19900426	ACC		NO	
HPCS-910N SOUTH PSA-3 SN(2)	2591	19900426	ACC		NO	
HPCS-912N PSA-3 SNUBBER	2790	19900426	ACC		NO ,	
HPCS-924N WEST PSA-3 SN(2)	3883	19900423	ACC		NO	
HY-4236-110 PSA-1/4 SNUBBER	28430	19900426	ACC		ИО	
MD-74 PSA-1 SNUBBER	360	19900425	ACC		NO	
MS-135 PSA-35 SNUBBER	7033	19900428	ACC		NO	
MS-145 PSA-10 SNUBBER	14556*	19900430	ACC		NO	
NS-145 PSA-10 SNUBBER	580	19900425	ACC	14556	NO	

<sup>\*</sup> This snubber was not part of the sample population. It was tested prior to being installed as a replacement. Snubber Test Population = 58-3 = 55.





HANGER MARK NO. (& POSITION) DESCRIPTION & SERIAL NO.					
MS-147 NORTH PSA-35 SN(2)	6543	19900425	ACC		ио
MS-256 TOP PSA-3 SN(2)	4444	19900423	REJ	OCLETED	ио
MS-2619-13 PSA-1 SNUBBER	625	19900427	ACC		NO
MS-96 TOP PSA-10 SN(2)	772	19900425	ACC		ИО
MS-96 BOTTOM PSA-10 SN(2)	286	19900425	ACC		ио
MS-998N NORTH PSA-10 SN(2)	710	19900425	ACC		NO .
MS-SA-7 PSA-35 SNUBBER	4209	19900426	ACC	STRUT	ио
MS-SB-1 PSA-100 SNUBBER	604	19900427	ACC		NO .
MS-SD-4 PSA-35 SNUBBER	4148	19900426	VCC		ОИ
MSLC-2821-12 BOTTOM PSA-1/4 SN(2)	376	19900423	ACC	•	NO ·
MSRV-18-3 PSA-10 SNUBBER	4864	19900427	ACC		ио



HANGER MARK NO. (& POSITION) DESCRIPTION & SERIAL NO.			TEST RESULT ACC/REJ		RETEST NEXT OUTAGE: Y/N	
MSRV-1C-1		•				
PSA-10 SNUBBER	4870	19900427	ACC		NO	
MSRV-2B-1						
PSA-10 SNUBBER	13063	19900427	ACC		NO	
MSRV-20-6						
PSA-10 SNUBBER	9910	19900427	ACC		NO	
MSRV-20-1		•	•			
PSA-10 SNUBBER	287	19900427	ACC		NO	
MSRV-38-4						
PSA-10 SHUBBER	274	19900427	ACC	p.	ИО	
MSRV-4C-8 PSA-35 SNUBBER	19736	10000606	ACC		ИО	
PSA-SS SHUBBER	19736	19900426	ACC		110	
MSRV-58-2 PSA-35 SNUBBER	6205	19900426	ACC		NO	
	0203	17700428	H00		140	
MSRV-53-4 PSA-10 SNUBBER	13054	19900427	ACC		NO	
	1000	17,001.				
RCIC-1490-13 PSA-1/2 SNUBBER	2523	19900423	ACC		ИО	
				•		
RCIC-1C-1 PSA-1 SNUBBER	359	19900427	ACC		ио	
kCIC-2562-25	ъ					
	2462	19900426	ACC		NO	

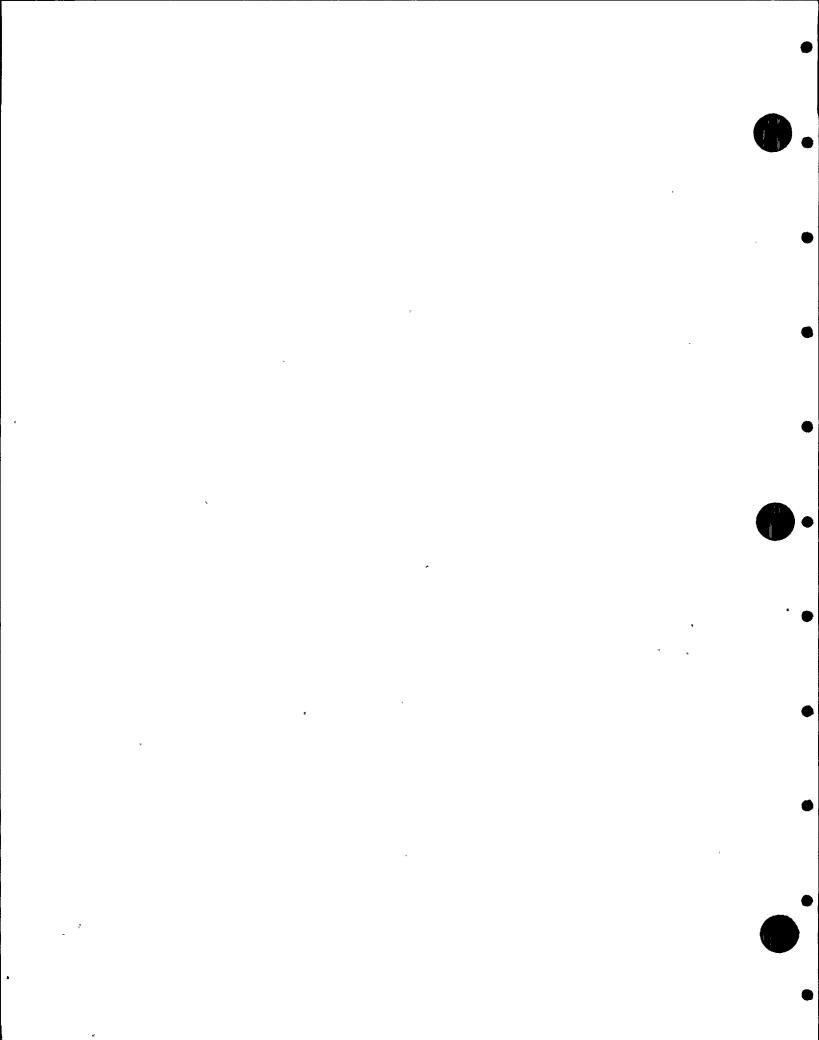


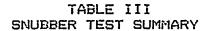


## TABLE III SNUBBER TEST SUMMARY

HANGER MARK NO. (& POSITION) DESCRIPTION & SERIAL NO.				REPLACEMENT SERIAL NO.	RETEST NEXT OUTAGE: Y/N	
RFW-154 SOUTH PSA-10 SN(2)	9958	19900427	ACC	DELETED .	NO	
RHR-206 PSA-1 SNUBBER	610	19900423	ACC		ио	
RHR-277 PSA-3 SNUBBER	509	19900424	ACC		NO	
KHR-383 PSA-35 SNUBBER	70568 **	19900427	ACC	10568	ио	
RHR-387 PSA-10 SNUBBER	11867	19900427	ACC		, по	
RHR-419 EAST PSA-3 SN(2)	4432	19900426	ACC		NO	
RHR-454 PSA-1/2 SNUBBER	2118	19900423	ACC		NO	
RHR-485 PSA-10 SNUBBER	11856	19900427	ACC		ИО	
RHR-492 SOUTH PSA-3 SN(2)	3950	19900426	ACC		NO	
RHR-502 PSA-35 SNUBBER	6178	19900427	ACC		NO	
RHR-59 PSA-10 SNUBBER	9942	19900424	ACC	_	ио	

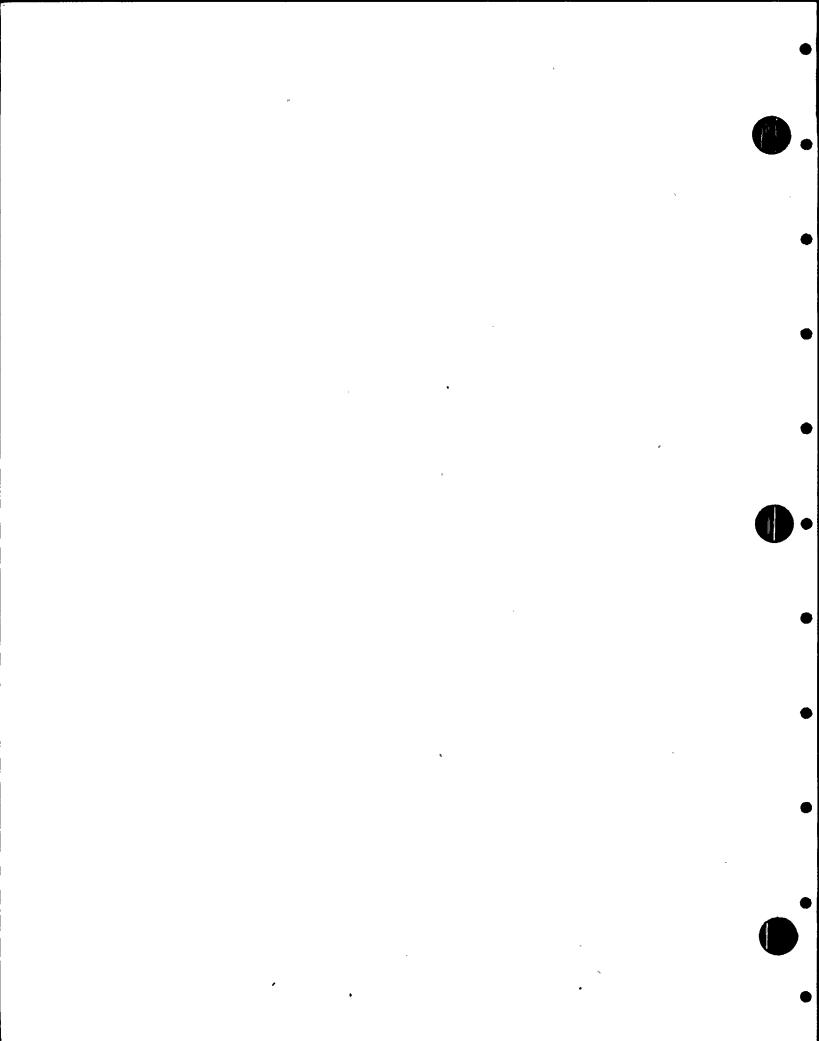
<sup>\*\*</sup> S/N corrected from 70568 to 10568





HANGER MARK NO. (& POSIT DESCRIPTION & SERIAL		TEST DATE YR/MO/DA		REPLACEMENT SERIAL NO.	
RHR-913N PSA-3 SNUBBER	4430	19900423	ACC	•	NO
RHR-948N BOTTOM PSA-3 SN(2)	2580	` 19900423	ACC		NO
RHR-954N EAST PSA-1 SN(2)	126	19900423	ACC		NO
RHR-959N SOUTH/WE PSA-3 SN(2)	2360	19900426	ACC		NO
RHR-974N PSA-3 SNUBBER	4457	19900423	ACC		NO
RHR-SB-30 PSA-10 SNUBBER	14555 *	19900408	ACC		NO
RHR-SB-30 PSA-10 SNUBBER	9936	19900424	ACC	14555	NO
RHR-SB-34 TOP PSA-10 SN(2)	9931 *	19900427	ACC		NO
RHR-SB-34 TOP PSA-10 SN(2)	13060	19900424	ACC	9931	.NO
RRC-1C-900N BOTTOM PSA-1 SN(2)	617	19900427	ACC		МО
RRC-SA-17 PSA-35 SNUBBER	4217	19900427	ACC	,	NO

<sup>\*</sup> These snubbers were not part of the sample population. They were tested prior to being installed as replacements. Snubber test population = 58 - 3 = 55.





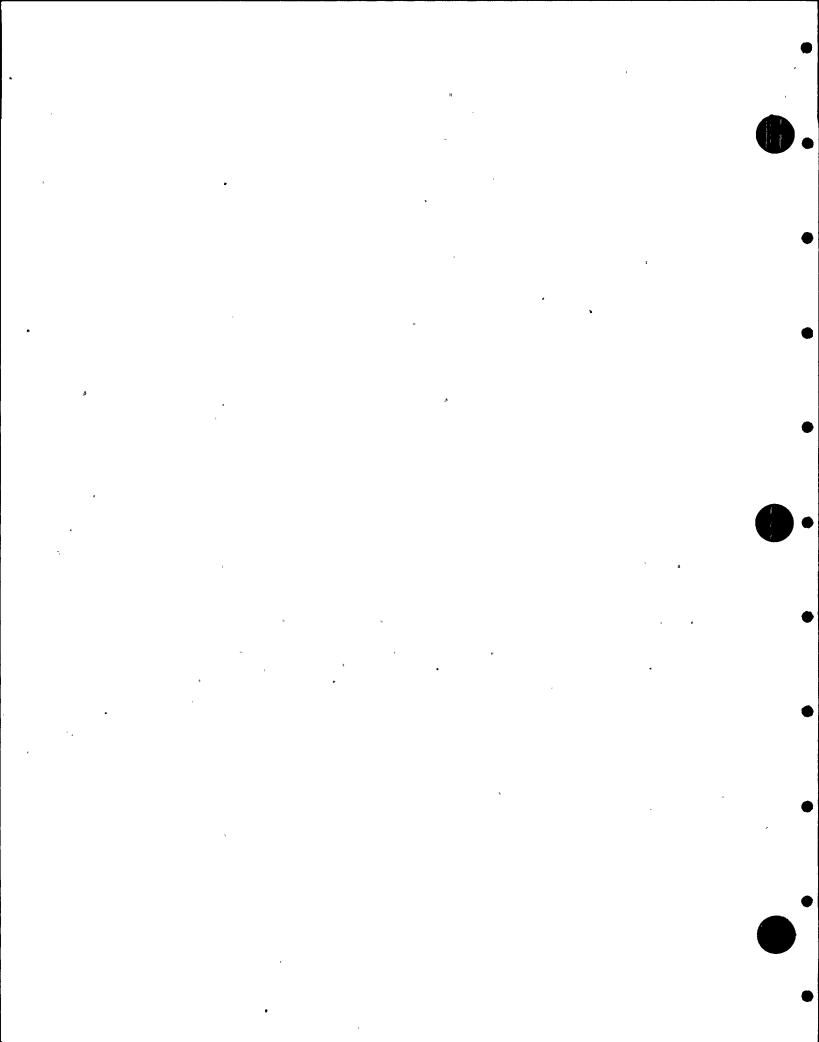
HANGER MARK NO. (& POSI DESCRIPTION & SERIAL		TEST DATE YR/MO/DA	TEST RESULT	REPLACEMENT SERIAL NO.	RETEST NEXT OUTAGE: Y/N
RRC-SB-25 . PSA-35 SNUBBER	4158	19900426	ACC		NO
RWCU-1C-3 WEST PSA-3 SN(2)	3938	19900426	ACC		NO
SW-29 NORTH E PSA-10 SN(4)	A 4869	19900426	ACC		NO

TOTAL COUNT =

58

## APPENDIX A

NIS-1 Owner's Data Report for Inservice Inspection



## FORM NIS-1 OWNERS' DATA REPORT FOR INSERVICE INSPECTIONS As required by the Provisions of the ASME Code Rules

1. Owner _	Washington Public Power Supply System 3000 George Washington Way, Richland, WA 99352
1. Owner _	(Name and Address of Owner)
2. Plant	WNP-2, Hanford Reservation, Benton County, Washington
Z. Flant	(Name and Address of Plant)
3. Plant Un	t WNP-2 4. Owner Certificate of Authorization (if required) N/A
5. Commerc	rial Service Date 12/13/84 6. National Board Number for Unit N/A
7 Compon	ance Inspected

7.	Components	Inspected
----	------------	-----------

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
RPV .	CBIN Nuclear Co.	T-45	29936-84W	8
LPCS-V-22B	Velan Engineering Co.	0057	n/a	N/A
MS-V-22B	Rockwell Mfg. Co.	JT-37	N/A	69
MS-V-22C	Rockwell Mfg. Co.	JT-54	N/A	70
MS-V-28B	Rockwell Mfg. Co.	JT-98	N/A	96
MS-V-28C	Rockwell Mfg. Co.	JU-17	N/A	77
RRC-V-60A	Hammel Dahl Valve Co.	71/200 S/001A	N/A	N/A
Lg Bore Pipe	Bechtel	(1)	N/A	n/A
Note: (1) Th	e piping examined is inc	luded in Pages	5-19.	
•				

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.



4

,

1

3.

.

•

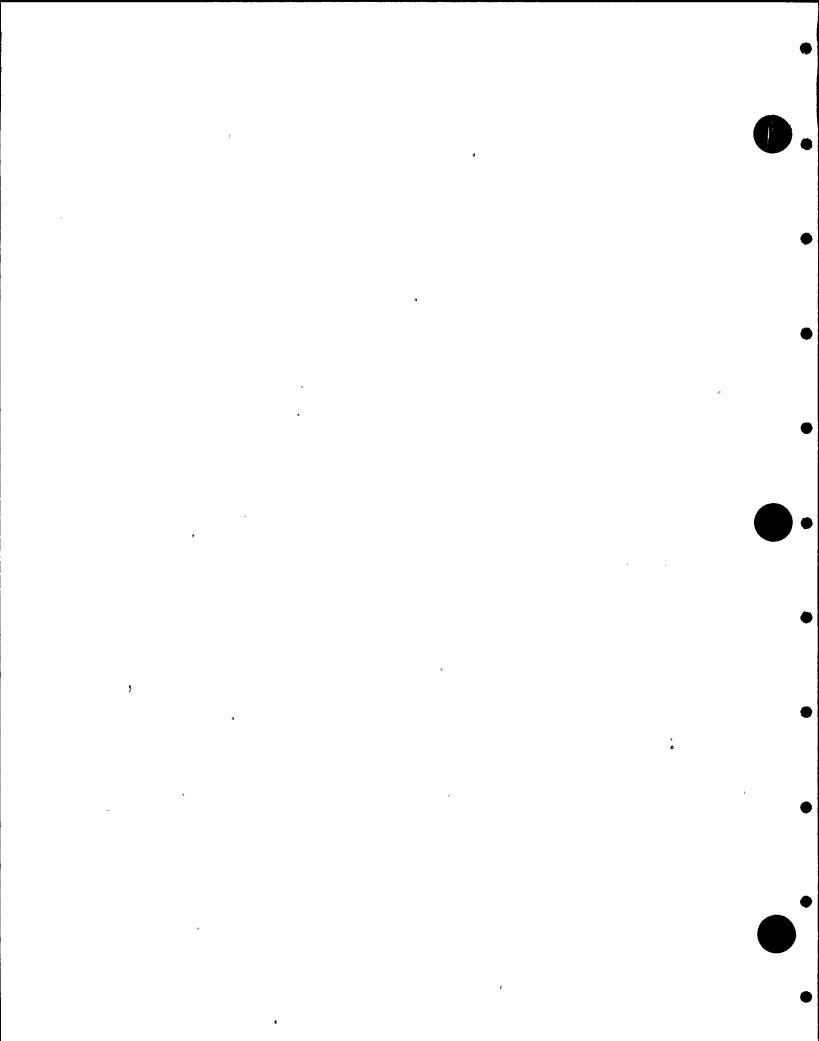
F

v

•

## FORM NIS-1 (back)

8. Examination Dates 6/27/89 to 8/7/90 9. Inspection Interval from 12/31/84 to 12/13/94	*
10. Abstract of Examinations. Include a list of examinations and a statement concerning status of work required for current interval. Approximately 56% of the examinations required for this inspect interval have been completed. Ref. pgs. 5-19 for exam details.  11. Abstract of Conditions Noted.  Ref. pgs. 3 and 4.	tio:
12. Abstract of Corrective Measures Recommended and Taken	
Ref. pgs. 3 and 4.	
We certify that the statements made in this report are correct and the examinations and corrective measures taken conform to the rules of the ASME Code, Section XI.  Date	
CERTIFICATE OF INSERVICE INSPECTION	
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of <u>Washington</u> and employed by <u>Arkwright Mut. Ins. Co.of Norwood, Mass.</u> have inspected the components described in this Owners' Data Report during the period 6/27/89 to 8/7/90, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owners' Data Report in accordance with the requirements of the ASME Code, Section XI.  By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owners' Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.  * Factory Mutual System	*
Date 10/24 19 90	
Dan Vloggant Commissions 9556 W	Ì
Inspector's Signature National Board, State, Province and No.	



#### FORM NIS-1

1. Owner: Washington Public Power Supply System

3000 George Washington Way

Richland, Washington 99352

2. Plant: WNP-2

Hanford Reservation

Benton County, Washington

3. Plant Unit: WNP-2

4. Owner Certificate of Authorization: N/A

5. Commercial Service Date: 12/13/1984

6. National Board Number for Unit: N/A

#### 11. Abstract of Conditions Noted:

No unacceptable indications were found using dye penetrant, magnetic particle, and ultrasonic examination methods except for MT exams of seven butt welds where surface imperfections due to the fabrication process(es) showed up as linear indications.

Code category B-P leakage test found no leaks to be present.

RPV interior (B-N-1) visual examination found the two remaining surveillance specimen holders to be intact.

One snubber failed testing.

A number of CRD bolts (cap screws) were found with pitting corrosion in the visual surface examination (VT-1) and rejected (114 out of 240 in 35 drives reworked).

## 12. Abstract of Corrective Measures Recommended and Taken:

The seven welds that failed MT surface exams were accepted by subsequent full thickness UT examinations of MT indication areas that determined there was no significant depth to any of them (surface exams acceptable).

The snubber (MS-256 Top) failed because of hardening of grease in the internal mechanism after long time exposure to 300-400 F. High snubber temperature was due to resultant heat buildup when encapsulated in an insulation pad on the steam line. Independent of this problem, the failed snubber was deleted and the lower snubber was replaced by a rigid strut as part of an ongoing snubber optimization program at WNP-2. No similar conditions were uncovered for any of the other snubbers examined.

#### FORM NIS-1

1. Owner: Washington Public Power Supply System

3000 George Washington Way

Richland, Washington 99352

2. Plant: WNP-2

Hanford Reservation

Benton County, Washington

3. Plant Unit: WNP-2

4. Owner Certificate of Authorization: N/A

5. Commercial Service Date: 12/13/1984

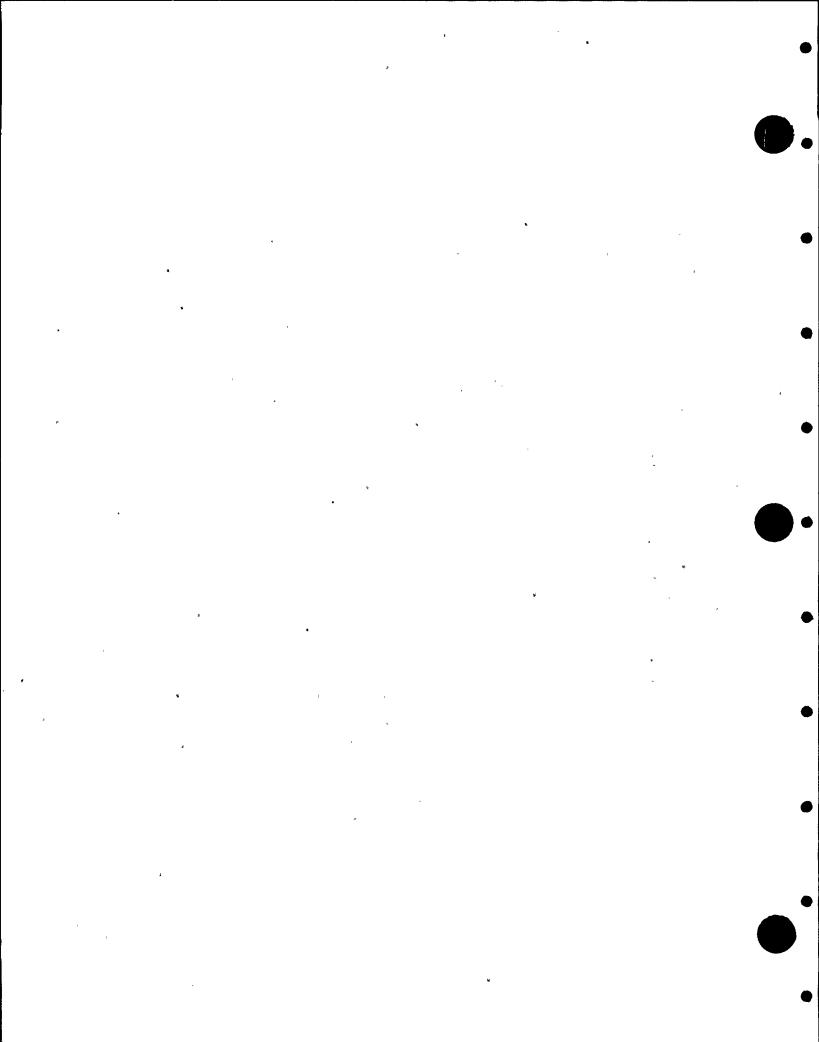
6. National Board Number for Unit: N/A

## 12. Abstract of Corrective Measures Recommended and Taken (cont):

One set of cap screws (8 per set)) that had the worst-appearing pitting corrosion were examined in detail. Two of the worst-appearing screws in this set were sectioned and metallographically examined to determine that less than 1% of the cross sectional area of the bolts was lost in five years of operation. Although the evaluation showed the rejected bolts would have been acceptable for continued operation, all new bolts were installed in 34 drives. Eight bolts previously removed from another drive and accepted by visual examination were installed in the 35th drive.

- 1. OWNER: WASHINGTON PUBLIC POWER SUPPLY SYSTEM, 3000 GEORGE WASHINGTON WAY, P.O. BOX 968, RICHLAND, WASHINGTON 99352 2. PLANT: WNP-2, HANFORD RESERVATION, BENTON COUNTY, WA.
- 3. PLANT UNIT: WNP-2 4. OWNER CERTIFICATE OF AUTHORIZATION: N/A
- 5. COMMERCIAL SERVICE DATE: 12/13/1984 6. NATIONAL BOARD NUMBER: N/A
- 10. ABSTRACT OF EXAMINATIONS. LIST OF EXAMINATIONS:

CODE CATEGORY	IDENTIFICATION NO.	DESCRIPTION	ITEM NO.	METHOD	DRAWING NO.
6-D	N3-108	MS NZ-V @ 108	B3.90	VOL.	RPV-101
	N3-108-IR	MS NZ-IR @ 108		VOL	RPV-101
		MS NZ-V @ 252	B3.90	VOL	RPV-101
	N3-252 N3-252-IR	MS NZ-IR & 252			RPV-101
-	N3-288	MS NZ-V @ 288		VOL	RPV-101
	N3-288-IR	MS NZ-IR @ 288		VOL	RPV-101
	N4-270-İR	FW NZ-IR @ 270		VOL	RPV-101
	N4-270-NB	FW NZ BORE 8270		VOL	RPV-101
B-F	12RFW(1)BE-9	SE EXT-SE STUB	85 • 10	VOL	RFW-102
	12RFW(1)BE-9	SE EXT-SE STUB	B5 • 10	SUR	RFW-102
	12RFW(1)BE-10	SE STUB TO SE	85.10	VOL	RFW-102
	12RFW(1)BE-10	SE STUB TO SE	B5.10	SUR	RFW-102
	12RFW(1)BE-11	SE TO N4	B5.10	VOL	RFW-102
	12RFW(1)BE-11	SE TO N4	B5 • 1 G	SUR	RFW-102
8-6-1	RPV STUD 35-1-4A	RPV STUD	B6.20	VOL	RPV-101
	RPV STUD 35-1-4A	RPV STUD	B6.30	SUR	RPV-101
	RPV STUD 35-1-11A	RPV STUD	B6 • 2 0	VOL	RPV-101
•	RPV STUD 35-1-11A	RPV STUD	B6.30	SUR	RPV-101
	RPV STUD 35-1-18A	RPV STUD	. B6.20	VOL	RPV-101
	RPV STUD 35-1-18A	RPV STUD	B6.30	SUR	RPV-101
	RPV STUD 35-1-25A	RPV STUD	B6 • 20	VOL	RPV-101
	RPV STUD 35-1-25A	RPV STUD	86.30	SUR	RPV-101
	RPV STUD 35-1-32A	RPV STUD	86.20	VOL	RPV-101
	RPV STUD 35-1-32A	RPV STUD	B6.30	SUR	RPV-101
	RPV STUD 35-1-39A	RPV STUD	86.20	VOL	RPV-101
	RPV STUD 35-1-39A	RPV STUD	B6.30	SUR	RPV-101
	RPV STUD 35-1-46A	RPV STUD	B6.20	VOL	RPV-101
	RPV STUD 35-1-46A	RPV STUD	B6.30	SUR	RPV-101
	RPV STUD 35-1-53A	RPV STUD	B6.20	VOL	RPV-101
		RPV STUD	B6.30	SUR	RPV-101
	RPV STUD 35-1-60A	RPV STUD	B6.20	VOL	RPV-101



- 1. OWNER: WASHINGTON PUBLIC POWER SUPPLY SYSTEM, 3000 GEORGE WASHINGTON WAY, P.O. BOX 968, RICHLAND, WASHINGTON 99352 2. PLANT: WNP-2, HANFORD RESERVATION, BENTON COUNTY, WA.
- 3. PLANT UNIT: WNP-2 4. OWNER CERTIFICATE OF AUTHORIZATION: N/A
- 5. COMMERCIAL SERVICE DATE: 12/13/1984 6. NATIONAL BOARD NUMBER: N/A

ABSTRACT OF EX	AMINATIONS. LIST OF EXAM	INATIONS:			
CODE CATEGORY	IDENTIFICATION NO.	DESCRIPTION	ITEM NO.	METHOD	DRAWING NO.
B-G-1	RPV STUD 35-1-60A	RPV STUD	86.30	SUR	RPV-101
	RPV STUD 35-1-67A	RPV STUD	B6.20	VOL	RPV-101
	RPV STUD 35-1-67A	RPV STUD.	B6.30	SUR	RPV-101
	RPV STUD 35-1-74A	RPV STUD	B6 • 2.0	VOL	RPV-101
	RPV STUD 35-1-74A	RPV SŤUD	B6.30	SUR	RPV-101
	RPV NUT 36-1-4A	RPV NUT	B6 + 10	VOL	RPV-101
•	RPV NUT 36-1-4A	RPV NUT	B6.10	SUR	RPV-101
	RPV NUT 36-1-11A	RPV NUT	B6.10	VOL	RPV-101
	RPV NUT 36-1-11A	RPV NUT	B6.10	SUR	RPV-101
	RPV NUT 36-1-18A	RPV NUT	B6.10	VOL	RPV-101
	RPV NUT 36-1-18A	RPV NUT	B6 • 10	SUR	RPV-101
	RPV NUT 36-1-25A	RPV NUT	86.10	VOL	RPV-101
	RPV NUT 36-1-25A	RPV NUT	B6 • 10	SUR	RPV-101
	RPV NUT 36-1-32A	RPV NUT	86.10	VOL	RPV-101
	RPV NUT 36-1-32A	RPV NUT	B6 • 10	SUR	RPV-101
	RPV NUT 36-1-39A	RPV NUT	86.10	VOL	RPV-101
=	RPV NUT 36-1-39A	RPV NUT	86.10	SUR	RPV-101
	RPV NUT 36-1-46A	RPV NUT	B6.10	VOL	RPV-101
	RPV NUT 36-1-46A	RPV NUT	B6.10	SUR	RPV-101
	RPV NUT 36-1-53A	RPV NUT	86.10	VOL	RPV-101
	RPV NUT 36-1-53A	RPV NUT	B6.10	SUR	RPV-101
	RPV NUT 36-1-60A	REV NUT	B6.10	VOL	RPV-101
	RPV NUT 36-1-60A	RPV NUT	B6 • 10	SUR	RPV-101
	RPV NUT 36-1-67A	RPV NUT	86.10	VOL	RPV-101
	RPV NUT 36-1-67A	RPV NUT	86.10	SUR ·	RPV-101
	RPV NUT 36-1-74A	RPV NUT	B6.10	VOL	RPV-101
	RPV NUT 36-1-74A	RPV NUT	96.10.	SUR	RPV-101
ย-G-2	6SPARE-1BU	FLANGE BOLTING	B7.10	VT-1	RPV-102
	CRD HOUSING 38-59 BLT	CRD HOUSING BLT	B7.80	VT-1	RPV-102
	CRD HOUSING 18-55 BLT	CRD HOUSING BLT	B7.80	VT-1	RPV-102
	CRD HOUSING 34-55 BLT	CRD HOUSING BLT	B7.80	VT-1	RPV-102

CRD HOUSING 10-51 BLT CRD HOUSING BLT 87.80

VT-1

RPV-102

- 1. OWNER: WASHINGTON PUBLIC POWER SUPPLY SYSTEM, 3000 GEORGE WASHINGTON WAY, P.O. BOX 968, RICHLAND, WASHINGTON 99352 2. PLANT: WNP-2, HANFORD RESERVATION, BENTON COUNTY, WA.
- 3. PLANT UNIT: WNP-2 4. OWNER CERTIFICATE OF AUTHORIZATION: N/A
- 5. COMMERCIAL SERVICE DATE: 12/13/1984 6. NATIONAL BOARD NUMBER: N/A

RCIC-V-64-BLT

•	ABSTRACT OF EXA	AM INAT:	IONS. L	IST OF	EXAMIN	ATIO	NS:						
	CODE CATEGORY	IDENT	IFICATI	on no.	•	DESC	RIPTION		ITEM	NO.	METHOD	DRAWING	NO.
	B-G-2	CRD H	OUSING	14-51	BLT	CR D	HOUSING	BLT	87.80		V T - 1	RPV-102	
		CRD HO	DUSING	26-51	BLT	CRD	HOUSING	BLT	B7.80		VT-1	RPV-102	
		CRD HO	OUSING	10-47			HOUSING		B7.80		VT-1	RPV-102	
		CRD HO	OUSING	26-47	BLT	CR D	HOUSING	BLT	B7.80		VT-1	RPV-102	
		CRD H	OUSING	34 - 47	BLT	CRD	HOUSING	BLT	B7.80		VT-1	RPV-102	
		CRD H	OUSING	14-43	BLT	CR D	HOUSING	BLT	B7.80		V T - 1	RPV-102	
		CRD H	DUSING	38-43	BLT	CR D	HOUSING	BLT	B7.80		VT-1	RPV-102	
		CRD H	OUSING	02-39	BLT	CR D	HOUSING	BLT	B7.80		VT-1	RPV-102	
		CRD H	OUSING	14-39	BLT	CR D	HOUSING	BLT	B7.80		V T - 1	RPV-102	
		CRD HO	DUSING	18-39	BLT	CR D	HOUSING	BLT	B7.80		VT-1	RPV-102	
		CRD H	DUSING	22-35	BLT	CR D	HOUSING	BLT	87.80		VT-1	RPV-102	
		CRD H	OUSING	26-35	BLT	CR D	HOUSING	BLT	87.80		VT-1	RPV-102	
			OUSING			CR D	HOUSING	BLT	87.80		VT-1	RPV-102	
			DUSING			CRD	HOUSING	BLT	B7.80		V T - 1	RPV-102	
		CRD H	OUSING	42-27	BLT	CRD	HOUSING	BLT	87.80		VT-1	RPV-102	
			DUSING			CR D	HOUSING	BLT .	B7.80		V T - 1	RPV-102	
			DUSING			CR D	HOUSING	BLT	B7.80		VT-1	RPV-102	
			OUSING			CR D	HOUSING	BLT	B7.80		VT-1	RPV-102	
			OUSING				HOUSING		B7.80		VT-1	RPV-102	
			OUSING				HOUSING		B7.80		VT-1	RPV-102	
			DUSING				HOUSING		B7 - 80		VT-1	RPV-102	
			OUSING				HOUSING		B7.80		VT-1	RPV-102	
			OUSING				HOUSING		67.80		VT-1	RPV-102	
			OUSING				HOUSING		B7.80			'RPV-102	
			DUSING				HOUSING		B7.80		VT-1	RPV-102	
			OUSING				HOUSING		B7.80		VT-1	RPV-102-	
			OUSING				HOUSING		B7.80		VT-1	RPV-102	
			OUSING				HOUSING		B7.80		VT-1	RPV-102	
			OUSING				HOUSING		B7.80		VT-1	RPV-102	
			OUSING				HOUSING		B7.80		VT-1	RPV-102	
		CRD H	DUSING	42-03	BLT	CR D	HOUSING	BLT	B7.80		VT-1	RPV-102	

VALVE BOLTING

87.70

VT-1

RCIC-101

- 1. OWNER: WASHINGTON PUBLIC POWER SUPPLY SYSTEM, 3000 GEORGE WASHINGTON WAY, P.O. BOX 968, RICHLAND, WASHINGTON 99352 2. PLANT: WNP-2, HANFORD RESERVATION, BENTON COUNTY, WA.
- 3. PLANT UNIT: WMP-2 4. OWNER CERTIFICATE OF AUTHORIZATION: N/A
- 5. COMMERCIAL SERVICE DATE: 12/13/1984 6. NATIONAL BOARD NUMBER: N/A
- 10. ABSTRACT OF EXAMINATIONS. LIST OF EXAMINATIONS:

12RFW(1)AB-3

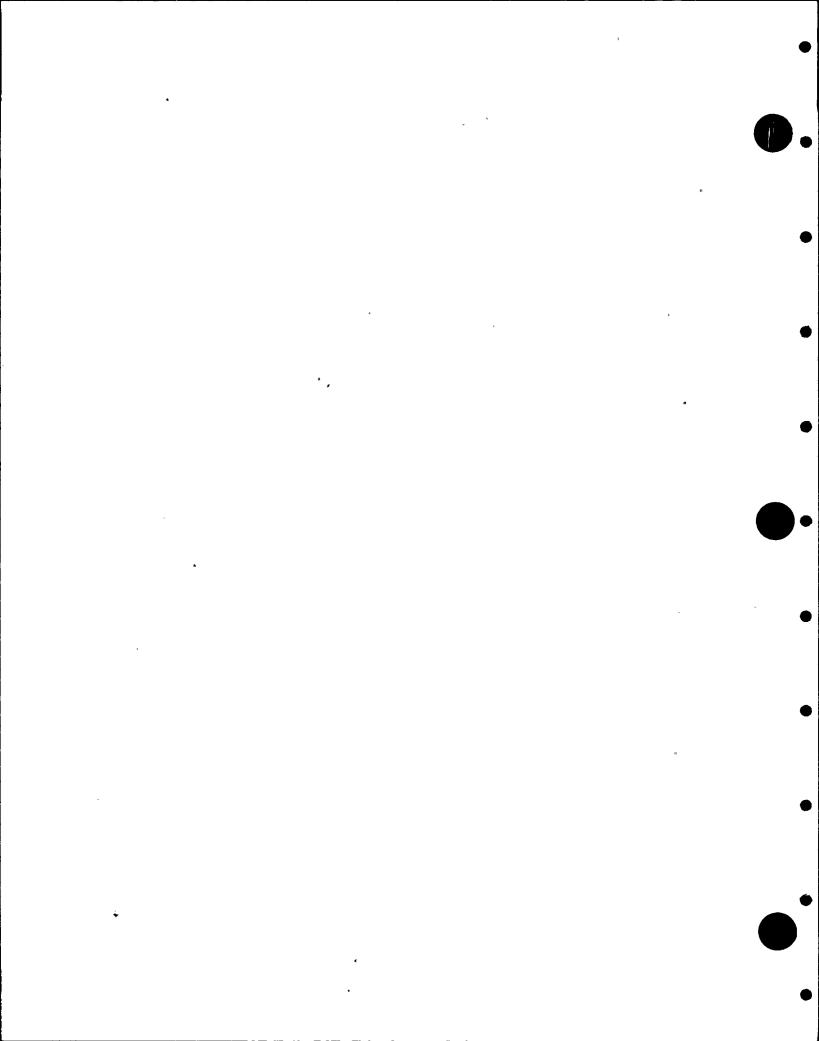
CODE CATEGORY	IDENTIFICATION NO.	DESCRIPTION	ITEM NO.	METHOD	DRAWING NO.
B-J	4RCIC(13)-4	PIPE TO EL	B9.11	VOL	RCIC-101
	4RCIC(13)-5	EL TO PIPE	B9.11	VOL	RCIC-101
	4RCIC(13)-6	PIPE TO PIPE	89.11	VOL	RCIC-101
	4RCIC(13)-7	PIPE TO PIPE	B9.11	VOL	RCIC-101
	4RCIC(13)-8	PIPE TO PIPE	89.11	VOL	RCIC-101
	4RCIC(13)-9 .	PIPE TO PIPE	B9.11	VOL	RCIC-101
	4RCIC(13)-10	PIPE TO PIPE	B9.11	VOL	RCIC-101
	4RCIC(13)-11	PIPE TO PIPE	B9.11	VOL	RCIC-101
	26MS(1)C-3	PIPE TO EL	89.11	VOL	MS-103
	26MS(1)C-3	PIPE TO EL	B9.11	SUR	MS-103
	26MS(1)C-3LDI	EL SEAM	89.12	VOL	MS-103
	26MS(1)C-3LD1	EL SEÅM	89.12	SUR	MS-103
	26MS(1)C-3LDO -	EL SEAM	B9.12	VOL	MS-103
	26MS(1)C-3LD0	EL SEAM	B9.12	SUR	MS-103
	26MS(1)D-3	PIPE TO EL	B9.11	VOL	MS-104
	26MS(1)D-3	PIPE TO EL	B9.11	SUR	MS-104
	26MS(1)D-3LDI	EL SEAM	B9.12	VOL	MS-104
	26MS(1)D-3LDI	EL SEAM	B9.12	SUR	MS-104
	26MS(1)D-3LD0	EL SEAM	B9.12	VOL	MS-104
	26NS(1)D-3LDO	EL SEAM	B9.12	SUR	MS-104
	264S(1)D-4LUI	EL SEAM	B9.12	VOL	MS-104
	26MS(1)D-4LUI	EL SEAM	89.12	SUR	MS-104
	26HS(1)D-4LU0	EL SEAM	B9.12	VOL	MS-104
	26MS(1)D-4LU0	EL SEAM	B9.12	SUR	MS-104
	26HS(1)D-4	EL TO PIPE	B9.11	VOL	MS-104
	26MS(1)D-4	EL TO PIPE	B9.11	SUR	MS-104
	26MS(1)D-5	PIPE TO PIPE	B9.11	VOL	HS-104
-	26MS(1)D-5	PIPR YO PIPE	B9.11	SUR	MS-104
	24RFW(1)A-9	VALVE TO PIPE	B9.11	VOL	RFW-101
4	24RF%(1)A-9	VALVE TO PIPE	B9.11 .	SUR	RFW-101
	24RFW(1)A-12	EL TO PIPE	B9.11	VOL	RFW-101
	24RFV(1)A-12	EL TO PIPE	B9•11	SUR	RFW-101

EL TO PIPE

B9.11

VOL

RFW-101



- 1. OWNER: WASHINGTON PUBLIC POWER SUPPLY SYSTEM, 3000 GEORGE WASHINGTON WAY, P.O. BOX 968, RICHLAND, WASHINGTON 99352 2. PLANT: WNP-2, HANFORD RESERVATION, BENTON COUNTY, WA.
- 3. PLANT UNIT: WNP-2 4. OWNER CERTIFICATE OF AUTHORIZATION: N/A
- 5. COMMERCIAL SERVICE DATE: 12/13/1984 6. NATIONAL BOARD NUMBER: N/A
- 10. ABSTRACT OF EXAMINATIONS. LIST OF EXAMINATIONS:

4RFW(11)B-1

•	MODINADI, DI GA	ANIMALIONS. EIST OF EXAMI	14 1 1 0 11 2 +			•
	CODE CATEGORY	IDENTIFICATION NO.	DESCRIPTION	ITEM NO.	METHOD	DRAWING NO.
	B-J	12RFU(1)AB-3	EL TO PIPE	B9.11	SUR	RFW-101
		12RFW(1)AA-1	REDUCER TO PIPE	B9.11	VCL	RFW-101
		12RFW(1)AA-1	REDUCER TO PIPE	89.11	SUR	RFW-101
		12RFW(1)AA-3	EL TO PIPE	B9.11	VOL	RFW-101
		12RFW(1)AA-3	EL TO PIPE	B9.11	SUR	RFW-101
		12RFW(1)AA-4	PIPE TO EL	B9.11	VOL	RFW-101
		12RFK(1)AA-4	PIPE TO EL	B9.11	SUR	RFW-101
		12RFW(1)AA-8	PIPE TO SE EXT	B9.11	VOL	RFW-101
		12RFW(1)AA-8		B9.11	SUR	RFW-101
		24RFW(1)B-12	EL TO PIPE	B9.11	VOL	RFW-102
		24RFW(1)8-12	EL TO PIPE	B9.11	SUR	RFW-102
		12RF¥(1)8D-4	PIPE TO EL	B9 • 11	VOL	RFW-102
		12RFW(1)BD-4	PIPE TO EL	89.11	SUR	RFW-102
		12RFW(1)BD-7	EL TO PIPE	B9.11	VOL	RFW-102
		12RFW(1)BD-7	EL TO PIPE	B9.11	SUR	RFW-102
		12RFW(1)BD-8	PIPE TO SE EXT	B9.11	VOL	RFW-102
		12RFW(1)BD-8	PIPE TO SE EXT	B9.11	SUR	RFW-102
		6RFW(11)-4	PIPE TO EL '	B9.11	VOL	RFW-103
	-	6RFW(11)-4	PIPE TO EL	89.11	SUR *	RFW-103
		6RFW(11)-5	EL TO PIPE EL TO PIPE	B9.11	VOL	RFW-103
		6RFW(11)-5	EL TO PIPE	B9.11	SUR	RFY-103
		69FW(11)-6	PIPE TO EL	B9.11	VOL	RFW-103 .
		6RFW(11)-6	PIPE TO EL '	B9.11	SUR	RFW-103
		6RFW(11)-7		B9.11	VOL	RFW-103
	r .	6RF¥(11)-7	EL TO PIPE	B9.11	SUR	RFW-103
		6RFW(11)-8	PIPE TO TEE	B9.11	VOL	RFW-103
		GRFW(11)-8	PIPE TO TEE	B9.11	SUR	RFW-103
	•	6RFW(11)-9	TEE TO PIPE	B9.11	VOL	RFW-103
	- -	6RFW(11)-9	TEE TO PIPE	89.11	SUR	RFY-103
		6RFW(11)-10	PIPE TO REDUCER		VOL	RFW-103
		6RFW(11)-10	PIPE TO REDUCER		SUR .	RFW-103
		4RFW(11)B-1 .	REDUCER TO PIPE	89.11	VOL	RFW-103

REDUCER TO PIPE

B9.11

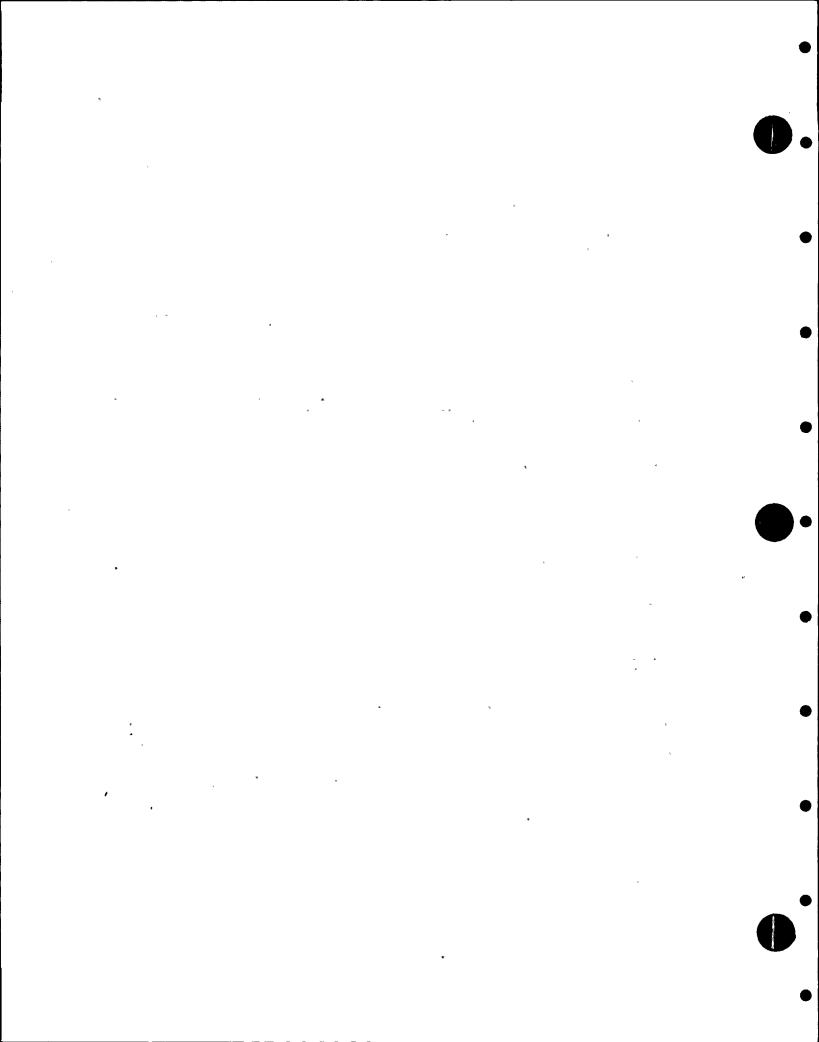
SUR

RFW-103

- 1. OWNER: WASHINGTON PUBLIC POWER SUPPLY SYSTEM, 3000 GEORGE WASHINGTON WAY, P.O. BOX 968, RICHLAND, WASHINGTON 99352 2. PLANT: WNP-2, HANFORD RESERVATION, BENTON COUNTY, WA.
- 3. PLANT UNIT: WNP-2 4. OWNER CERTIFICATE OF AUTHORIZATION: N/A
- 5. COMMERCIAL SERVICE DATE: 12/13/1984 6. NATIONAL BOARD NUMBER: N/A
- 10. ABSTRACT OF EXAMINATIONS. LIST OF EXAMINATIONS:

CODE	CATEGORY	IDENTIFICATION NO.	DESCRIPTION	ITEM NO.	METHOD	DRAWING NO.
B-J		4RFW(11)B-1A	PIPE TO PIPE	R9.11	VOL	RFW-103
			PIPE TO PIPE	B9.11	SUR	RFW-103
		4RFW(11)B-2	PIPE TO EL	89.11	VOL	RF¥-103
		4RFW(11)B-2	PIPE TO EL	89.11	SUR	RFW-103
*		4RFW(11)B-3	FL TO PIPE		VOL	RFW-103
		4RFW(11)B-3	PIPE TO EL EL TO PIPE EL TO PIPE	89-11	SUR	RFW-103
		4RFU(11)B-4	PIPE TO EL	B9.11	VOL	RFW-103
			PIPE TO EL	B9.11	SUR	RFW-103
			EL TO SLEEVE		VOL	RFW-103
		4RFW(11)B-5		B9.11	SUR	RFW-103
		16RRC(1) A-1 /12RRC(1)-N2D	PIPE TO SWI	89.31	VOL	RRC-101
		16RRC(1)A-1/12RRC(1)-N2D	PIPE TO SAL	B9.31	SUR	RRC-101
		16RRC(1)A-1/12RRC(1)-N2D 16RRC(1)A-1/12RRC(1)-N2E 16RRC(1)A-1/12RRC(1)-N2E	PIPE TO SWL	89.31	VOL	RRC-101
		16RRC(1) A-1/12RRC(1)-N2E	PIPE TO SWL	89.31	SUR	RRC-101
		16RRC(1)A-2	PIPE TO CAP	B9.11	VOL	RRC-101
		16RRC(1)A-2 16RRC(1)A-3_	CROSS TO PIPE	B9.11 -	VOL	RRC-101
		16RRC(1)A-3/12RRC(1)-N2B	PIPE TO SWL	B9.31	VOL	RRC-101
		16RRC(1)A-3/12RRC(1)-N2B			SUR	RRC-101
		16RRC(1) A-3/12RRC(1)-N2A	PIPE TO SWL	B9.31	VOL	RRC-101
		1/00//11/6 7/1000//11/ 8/04	DIDE TA CIII	00 71	SUR	RRC-101
		16RRC(1) A-3/12RRC(1)-N2A 16RRC(1) A-4 12RRC(1)-N2A-1 12RRC(1)-N2A-1 12RRC(1)-N2A-1LD	PIPE TO CAP	89.11	VOL	RRC-101
		12RRC(1)-N2A-1	SWL TO PIPE	B9.11	VOL	RRC-101
		12RRC(1)-N2A-1	SWL TO PIPE	B9.11	SUR	RRC-101
	*	12RRC(1)-N2A-1LD	PIPE SEAM	B9.12	VOL	RRC-101
		IZKKU(I)-NZA-ILU	LTLE SENU	B9.12	SUR	RRC-101
		12RRC(1)-N2A-3	EL TO PIPE	89.12	VOL	RRC-101
		12RRC(1)-N2B-3	EL TO PIPE	B9.11	VOL	RRC-101
		12RRC(1)-N2C-1	REDUCER TO PIPE	B9.11	VOL	RRC-101
		12RRC(1)-N2C-1	REDUCER TO PIPE	B9.11	SUR	RRC-101
		12RRC(1)-N2C-1LD	PIPE SEAM	89.12	VOL	RRC-101
		12RRC(1)-N2C-1LD	PIPE SEAM	89.12	SUR	RRC-101
		12RRC(1)-N2C-1LD 12RRC(1)-N2C-1A	PIPE TO PIPE	89.11	VOL	RRC-101
		12RRC(1)-N2C-1ALD	PIPE SEAM	89.12	VOL	RRC-101

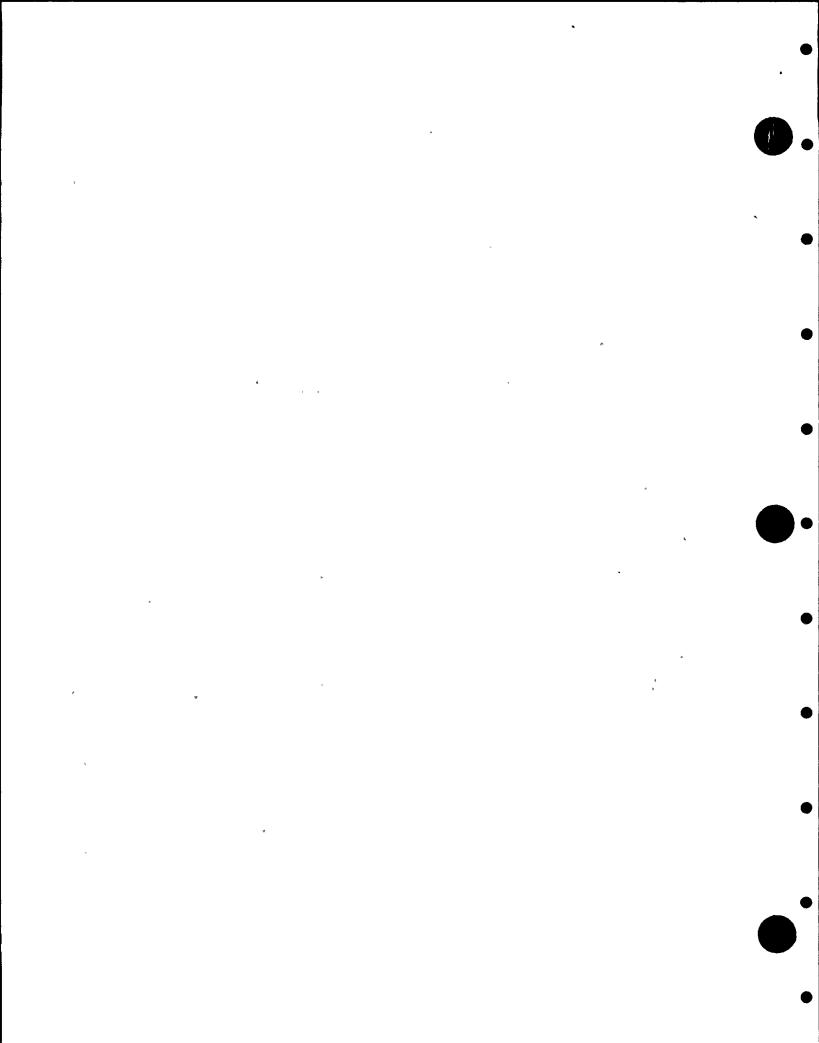
10



- 1. OWNER: WASHINGTON PUBLIC POWER SUPPLY SYSTEM, 3000 GEORGE WASHINGTON WAY, P.O. BOX 968, RICHLAND, WASHINGTON 99352 2. PLANT: WNP-2, HANFORD RESERVATION, GENTON COUNTY, WA.
- 3. PLANT UNIT: WNP-2 4. OWNER CERTIFICATE OF AUTHORIZATION: N/A
- 5. COMMERCIAL SERVICE DATE: 12/13/1984 6. NATIONAL BOARD NUMBER: N/A 10. ABSTRACT OF EXAMINATIONS. LIST OF EXAMINATIONS:

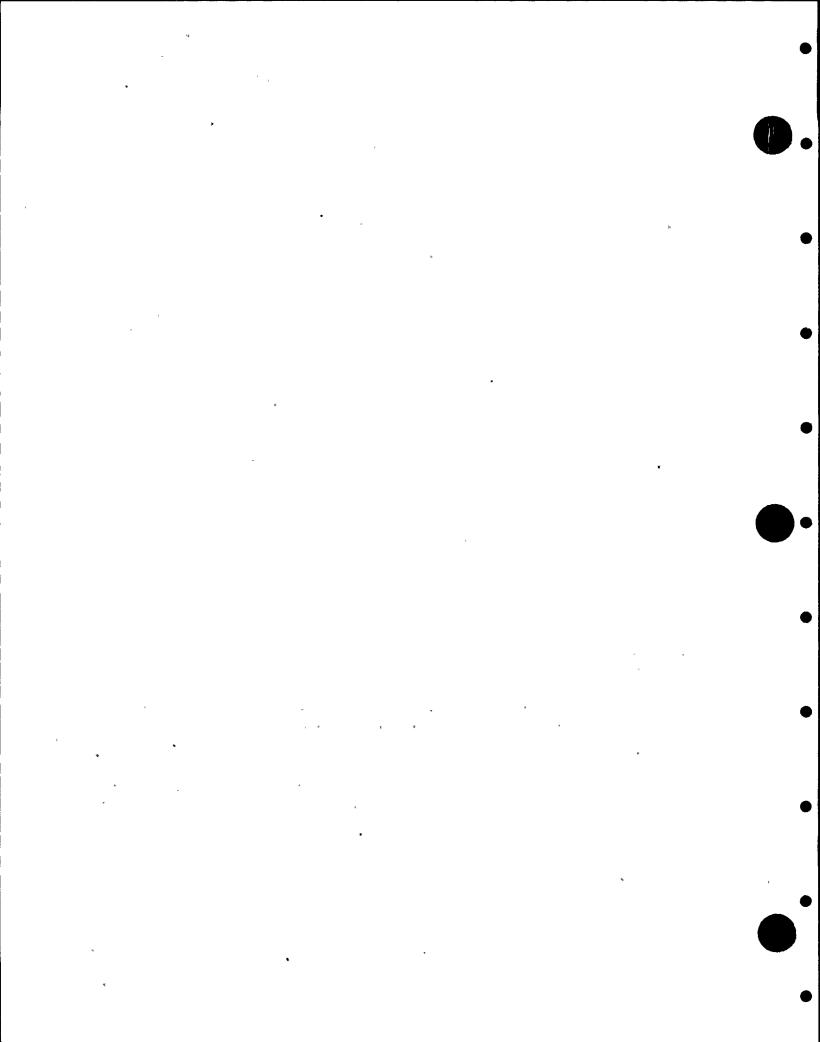
ABSTRACT OF EX	AMINATIONS. LIST OF EXA	MINATIONS:			
CODE CATEGORY	IDENTIFICATION NO.	DESCRIPTION	ITEM NO.	METHOD	DRAWING 110
B-J	12RRC(1)-N2C-3	EL TO PIPE	89.11	VOL .	RRC-101
	12RRC(1)-N2D-1	SWL TO PIPE.	B9.11	VOL	RRC-101
	12RRC(1)-N2D-1	SWL TO PIPE .	B9.11	<b>SUR</b>	RRC-101
	12RRC(1)-N2D-1LD	PIPE SEAM	B9.12	VOL	RRC-101
	12RRC(1)-N2D-1LD	PIPE SEAM	B9.12	SUR	RRC-101
	20RRC(6)-2LU	PIPE SEAM	B9.12	VOL	RRC-105 \
	20RRC(6)-2LU	PIPE SEAM	B9.12	SUR	RRC-105
	20RRC(6)-2	PIPE TO EL	B9.11	VOL	RRC-105
	20RRC(6)-2	PIPE TO EL	B9.11	SUR	RRC-105
	20RRC(6)-2LDI	EL SEAM	B9.12	VOL	RRC-105
	20RRC(6)-2LDI	EL SEAM	B9.12	SUR	RRC-105
	20RRC(6)-2LD0	EL SEAM	B9.12	VOL	RRC-105
	20RRC(6)-2LD0	EL SEAM	B9.12	SUR	RRC-105
B-K-1	MS-HC-1(W)	4 WELDED LUGS	810.10	SUR	MS-103
	MS-HD-1(W)	4 WELDED LUGS	B10.10	SUR	MS-104
	RWCU-1C-4PS(W)	8 WELDED LUGS	B10.10	SUR	RWCU-101
	RWCU-1 C-3 (W)	8 WELDED LUGS	B10.10	SUR	RWCU-101
B-M-2	LPCS-V-6-8DY	VALVE BODY	812.40	5 - T V	LPCS-101
	MS-V-28C-BDY	VALVE BODY	B12.40	8-TV	MS-103
	RRC-V-60A-BDY	VALVE BODY	B12.40	VT-3	RRC-101
B-N-1	RPV INTERIOR	RPV INTERIOR*	813.10	5-TV	RPV-101
8-P	RPV-P8-101(L)	LK PRES BNDRY	815.10	VT-2	RPV-101
	RPV-PB-102(L)	LK PRES BNDRY	B15 - 10	VT-2	RPV-102
	RCIC-PB-101(L)	LK PRES BNDRY	B15.50	VT-2	RCIC-101
	RCIC-PB-102(L)	LK PRES BNDRY	B15.50	VT-2	RCIC-102
	HPCS-PB-101(L)	LK PRES BNDRY	B15.50	VT-2	HPCS-101
	LPCS-PB-101(L)	LK PRES BNDRY	B15.50	VT-2	LPCS-101
-	RHR-P8-101(L)	LK PRES BNDRY	B15.50	VT-2	RHR-101
	RHR-PB-102(L)	LK PRES BNDRY	815.50	VT-2	RHR-102

<sup>\*</sup> Limited to two surv. specimen holders and RPV top head steam dryer holddown lugs (4).



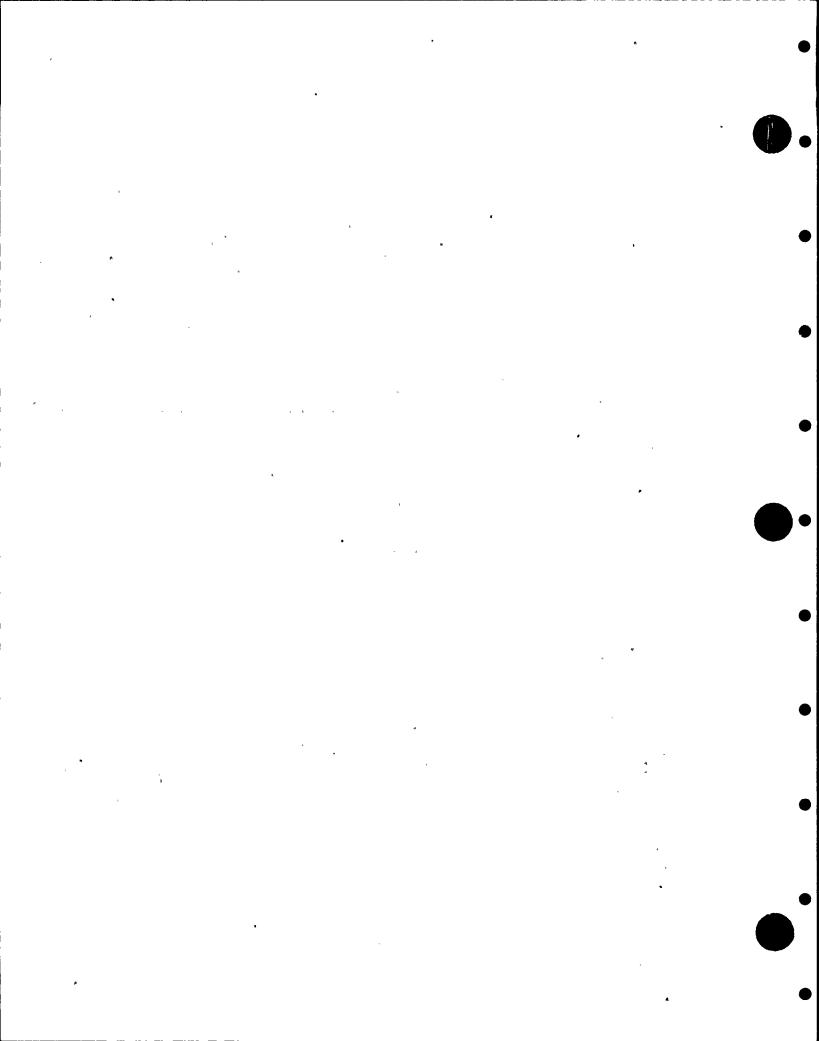
- 1. GWNER: WASHINGTON PUBLIC POWER SUPPLY SYSTEM, 3000 GEORGE WASHINGTON WAY, P.O. BOX 968, RICHLAND, WASHINGTON 99352 2. PLANT: WNP-2, HANFORD RESERVATION, BENTON COUNTY, WA.
- 3. PLANT UNIT: WNP-2 4. OWNER CERTIFICATE OF AUTHORIZATION: N/A
- 5. COMMERCIAL SERVICE DATE: 12/13/1984 6. NATIONAL BOARD NUMBER: N/A
- 10. ABSTRACT OF EXAMINATIONS. LIST OF EXAMINATIONS:

•	ABSTRACT OF EX	AMINATIONS. LIST OF	EXAMINATIONS:			
	CODE CATEGORY	IDENTIFICATION NO.	DESCRIPTION	ITEM NO.	METFOD	DRAWING NO.
	B-P	RHR-P8-103(L)	LK PRES BNDRY	815.50	VT-2	RHR-103
		RHR-PB-104(L)	LK PRES BNDRY	815.50	VT-2	RHR-104
		RHR-PB-105(L)	LK PRES BNDRY	B15.50	VT-2	RHR-105
		RHR-PB-106(L)	LK PRES BNDRY	B15.50	VT-2	RHR-106
		MS-P8-101(L)	LK PRES BNDRY	815.50	VT-2	MS-101
		MS-PB-102(L)	LK PRES BNDRY	815.50	VT-2	MS-102
		MS-PB-103(L)	LK PRES BNDRY	B15.50	VT-2	MS-103
		MS-PB-104(L)	LK PRES BNDRY	B15.50	VT-2	MS-104
		MS-PB-105(L)	LK PRES BNDRY	B15.50	VT-2	MS-105
		MS-P8-106(L)	LK PRES BNDRY	B15.50	VT-2	MS-106
•		RFW-PB-101(L)	LK PRES BNDRY	B15.50	VT-2	RFW-101
		RFW-P8-102(L)	LK PRES BNDRY	B15.50	VT-2	RFW-102
	÷	RFW-P8-103(L)	LK PRES BNDRY	815.50	VT-2	RFW-103
		RRC-PB-101(L)	LK PRES BNDRY	B15.50	VT-2	RRC-101
		RRC-P8-102(L)	LK PRES BNDRY	B15.50	VT-2	RRC-102
		RRC-PB-103(L)	LK PRES BNDRY	B15.50	VT-2	RRC-103
		RRC-PB-104(L) .	LK PRES BNDRY	B15.50	VT-2	RRC-104
		RRC-PB-105(L)	LK PRES BNDRY	815.50	V T - 2	RRC-105
		RRC-PB-106(L)	LK PRES BNDRY	B15.50	VT-2	RRC-106
		RRC-PB-107(L)	LK PRES BNDRY	815.50	VT-2	RRC-107
		RRC-PB-108(L)	LK PRES BNDRY	B15.50	VT-2	RRC-108
	3	RRC-PB-109(L)		B15.50 ·	VT-2	RRC-109
		RRC-PB-110(L)	LK PRES BNDRY	B15.50	VT-2	RRC-110
		RRC-PB-111(L)	' LK PRES BNDRY	815.50	VT-2	RRC-111
		RWCU-P9-101(L)	LK PRES BNDRY	815.50	VT-2	RWCU-101
		SLC-PB-101(L)	LK PRESS BNDRY	B15.50	VT-2	SLC-101
	C-F-2	6RCIC(1)-82	PIPE TO PIPE	C5.51	VOL	RCIC-205
		6RCIC(1)-82	PIPE TO PIPE	C5.51	SUR	RCIC-205
		6RCIC(1)-88	PIPE TO ELL	C5.51	VOL	RCIC-205
		6RCIC(1)-88	PIPE TO ELL	C5.51	SUR	RCIC-205
		6RCIC(1)-99	ELL TO PIPE	C5.51	VOL	RCIC-205
		6RCIC(1)-99	ELL TO PIPE "	C5.51	SUR	RCIC-205



- 1. OWNER: WASHINGTON PUBLIC POWER SUPPLY SYSTEM, 3000 GEORGE WASHINGTON WAY, P.O. BOX 968, RICHLAND, WASHINGTON 99352 2. PLANT: WNP-2, HANFORD RESERVATION, BENTON COUNTY, WA.
- 3. PLANT UNIT: WNP-2 4. OWNER CERTIFICATE OF AUTHORIZATION: N/A
- 5. COMMERCIAL SERVICE DATE: 12/13/1984 6. NATIONAL BOARD NUMBER: N/A
- 10. ABSTRACT OF EXAMINATIONS. LIST OF EXAMINATIONS:

CODE CATEGORY	IDENTIFICATION NO.	DESCRIPTION	ITEM NO.	METHOD	DRAWING NO.
C-F-2	SRCIC(1)-105	PIPE TO ELBOW	C5.51	VOL	RCIC-205
	6RCIC(1)-105	PIPE TO ELBOW	C5.51	SUR	RCIC-205
	6RCIC(22)-10	ELL TO TEE	C5.51	VOL	RCIC-205
	6RCIC(22)-10 16HPCS(1)-7	ELL TO TEE	C5.51	SUR	RCIC-205
	16HPCS(1)-7	ELL TO TEE ELL TO PIPE	C5.51	VOL	HPCS-202
	16HPCS(1)-7	ELL TO PIPE	C5.51	SUR	HPCS-202
		PIPE TO EL		VOL	HPCS-202
	16HPCS(1)-27			SUR	HPCS-202
	16LPCS(1)-2/6LPCS(4)-2	BRANCH CONN	C5.81 .	SUR	LPCS-202
	16LPCS(1)-8	ELL TO PIPE	C5.51	VOL	LPCS-202
	16LPCS(1)-8 16LPCS(1)-8	ELL TO PIPE	C5.51	SUR	LPCS-202
	12LPCS(3)-5	VLV TO PIPE	C5.51	VOL	LPCS-202
	12LPCS(3)-5	VLV TO PIPE	C5.51	SUR	LPCS-202
	12LPCS(3)-6	PIPE TO ELL	C5.51	VOL	LPCS-202
		PIPE TO ELL		SUR	LPCS-202
		PIPÉ TO PIPE		VOL	LPCS-202
	16LPCS(1)-23		C5.51	SUR	LPCS-202
	16LPCS(1)-27	ELL TO PIPE	C5.51	VOL	LPCS-202
=	16LPCS(1)-27	ELL TO PIPE PIPE TO NOZZLE PIPE TO NOZZLE TEE TO PIPE TEE TO PIPE	C5.51	SUR	LPCS-202
	20RHR(1)A-2	PIPE TO NOZZLE	C5.51	VOL	RHR-201
	20RHR(1)A-2 18RHR(11)A-1	PIPE TO NOZZLE	C5.51	SUR	RHR-201
	18RHR(11)A-1	TEE TO PIPE	C5.51		-RHR-201
	18RHR(11)A-1	TEE TO PIPE	C5.51	SUR	RHR-201
	18KHK(11)A-14	LILE IO LEE	C5.51	VOL	RHR-201
		PIPE TO TEE		SUR	RHR-201
		PIPE TO REDUCER		VOL	RHR-201
		PIPE TO REDUCER		SUR	RHR-201
		PIPE TO TEE	C5.51	VOL	RHR-201
	18RHR(1)A-47	PIPE TO TEE	C5.51	SUR	RHR-201
	18RHR(1)A-54	PIPE TO TEE PIPE TO TEE	C5.51	VOL	RHR-201
	18RHR(1)A-54	PIPE TO TEE	C5.51	SUR	RHR-201
	14KHK(1)A-13	EL 10 PIPE	C5.51	VOL	RHR-201
^	14RHR(1)A-13	EL TO PIPE	C5.51	SUR	RHR-201

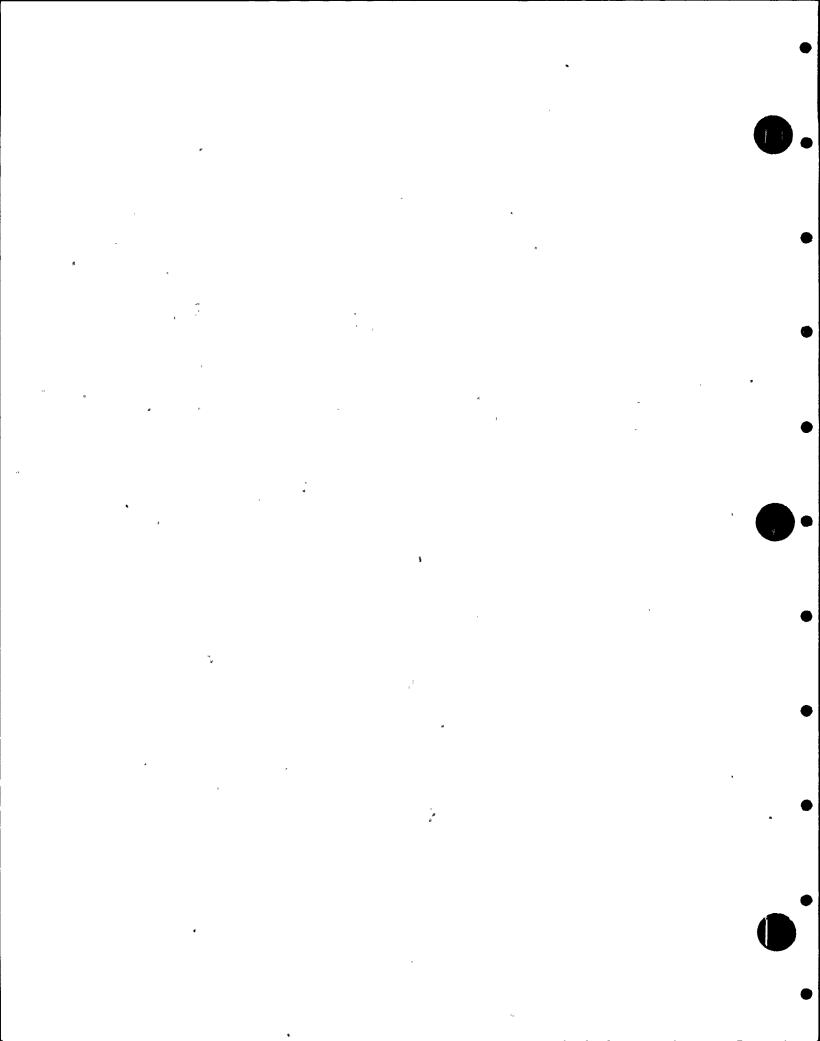


- 1. OWNER: WASHINGTON PUBLIC POWER SUPPLY SYSTEM, 3000 GEORGE WASHINGTON WAY, P.O. BOX 968, RICHLAND, WASHINGTON 99352 2. PLANT: WNP-2, HANFORD RESERVATION, BENTON COUNTY, WA.
- 3. PLANT UNIT: MNP-2 4. OWNER CERTIFICATE OF AUTHORIZATION: N/A
- 5. COMMERCIAL SERVICE DATE: 12/13/1984 6. NATIONAL BOARD NUMBER: N/A
- 10. ABSTRACT OF EXAMINATIONS. LIST OF EXAMINATIONS:

•		IDENTIFICATION NO.	DESCRIPTION	ITEM NO.	METFOD	DRAWING NO.
	υ- C	FPC-908N(W)	WELDED ATTACH	D3.30	VT-3	FPC-301
	IWF	RCIC-72	SPRING	F-X	VT3F	RCIC-101
		RCIC-1C-16	PSA-3 SNUBBER	F-X	VT3F	RCIC-101
		RCIC-1C-7	PSA-3 SNUBBER	F-X	VT3H	RCIC-101
		RCIC-68	SPRING	F-X	VT3H	RCIC-101
		RCIC-1C-8	PSA-3 SNUBBER	F-X	VT3E	RCIC-101
		RCIC-127	SPRING	F-X	VT3H	RCIC-102
		RCIC-936N	PSA-1 SN(2)	F-X	VT3h	RCIC-102
		RCIC-935N	PSA-1 SNUBBER	F-X	VT3H	RCIC-102
		RCIC-941N	SPRING	F-X	VT3H	RCIC-102
		RCIC-934N	PSA-3 SNUBBER	F-X	VT3h	RCIC-102
	-	RCIC-933N	PSA-3 SNUBBER	F-X	VT3H	RCIC-182
		RCIC-932N	PSA-1 SN(2)	F-X	VT3H	RCIC-102
		RCIC-128	PSA-3 SNUBBER	F-X	VT3H	RCIC-102
		RCIC-129	SPRING	F-X	VT3F	RCIC-102
		RCIC-955N	80 X	F-X	VT3h	RCIC-205
		RCIC-954N	BOX	F-X	VT3h	RCIC-205
		RCIC-22	BOX	F-X	VT3H	RCIC-205
		RCIC-952N	BOX	F-X	VT3F	RCIC-205
		RCIC-29	ANCHOR	F-X	VT3F	RCIC-205
		RCIC-86	SPRING	F-X	VT3H	RCIC-205
		RCIC-88	80 X -	F-X '	VT3E	RCIC-205
		RCIC-90	STRUT	F-X	VT3F	RCIC-205
		RCIC-91	ANCHOR	F-X	VT3H	RCIC-205
		RCIC-93	BOX	F-X	VT3H	RCIC-205
		RCIC-95	BOX	F-X	VT3P	RCIC-205
		RCIC-97	SPRING	F-X	VT3H	RCIC-205
		RCIC-98	STRUT	F-X	VT3H	RCIC-205
		RCIC-99	STRUT	F-X	VT3F	RCIC-205
		RCIC-100	PSA-1/2 SN(2)	F-X	VT3H	RCIC-205
		HPCS-1	SPRING	F-X°	VT3E	HPCS-202
		HPCS-23	SPRING	F-X	VT3h	HPCS-202

- 1. OWNER: WASHINGTON PUBLIC POWER SUPPLY SYSTEM, 3000 GEORGE WASHINGTON WAY, P.O. BOX 968, RICHLAND, WASHINGTON 99352 2. PLANT: WNP-2, HANFORD RESERVATION, BENTON COUNTY, WA.
- 3. PLANT UNIT: WNP-2 4. OWNER CERTIFICATE OF AUTHORIZATION: N/A
- 5. COMMERCIAL SERVICE DATE: 12/13/1984 6. NATIONAL BOARD NUMBER: N/A
- 10. ABSTRACT OF EXAMINATIONS. LIST OF EXAMINATIONS:

CODE CATEGO	ORY IDENTIFICATION NO.	DESCRIPTION	ITEM NO.	METHOD	DRAWING NO.
IWF	HPCS-21	RIGID	F-X	YT3H	HPC5-202
	HPCS-20	RIGID	F-X	HETV	HPCS-202
	HPCS-903N	STRUT	F-X	YT3H	HPCS-202
	HPCS-24	STRUT	F-X	HETV	HPCS-202
	HPCS-25	SPRING	F-X	HETV	HPCS-202
	HPCS-26	STRUT	F-X	HETV	HPCS-202
	HPCS-27	STRUT	F-X	HETV	HPCS-202
	HPCS-28	BOX	F-X	HETV	HPC5-202
	HPC5-917N	STRUT	F-X	HETV	HPC5-202
	HPCS-915N	STRUT	F-X	HETV	HPC5-202
	HPCS-909N°	STRUT	F-X	HETV	HPC5-202
	LPCS-38	BOX	F-X	HETV	LPCS-202
	LPCS-39	BOX	F-X	HETV	LPCS-202
	LPCS-11	SPRING	F-X	HETV	LPCS-202
	LPCS-12	BOX	F-X	HETV	LPCS-202
	LPCS-14	ANCHOR	F-X	HETY	LPCS-202
	LPCS-17	BOX	F-X	HETV	LPCS-202
	LPCS-20	STRUT	F-X.	HETY	LPC5-202
	LPCS-41	STRUT	F-X	YT3H	LPC5-202
	LPCS-42	BOX	F-X	HETY	LPC5~202
	LPCS-22	RIGID	F-X	HETV	LPCS-202
	LPCS-23	SPRING	F-X	VT3H	LPCS-202
	LPCS-24	BOX	F-X	YT3H	LPCS-202
	LPCS-25	SPRING	F-X	HETY	LPC5-202
	LPCS-903N	ANCHOR	F-X	HETV	LPCS-202
	RHR-601	STRUT	F-X	VT3H	RHR-201
	RHR-600 .	STRUT	F-X	HETV	RHR-201
	RHR-578	SPRING	F-X	HETY	RHR-201
	RHR-237	STRUT	F-X	HETV	RHR-201
	RHR-234	BOX	F-X	HETV	RHR-201
	RHR-1004N	STRUT	F-X	<b>VT3H</b>	RHR-201
	RHR-235	PSA-10 SNUBBER	F-X	HETV	RHR-201
	RHR-350	SPRING	F-X	HETV	RHR-201



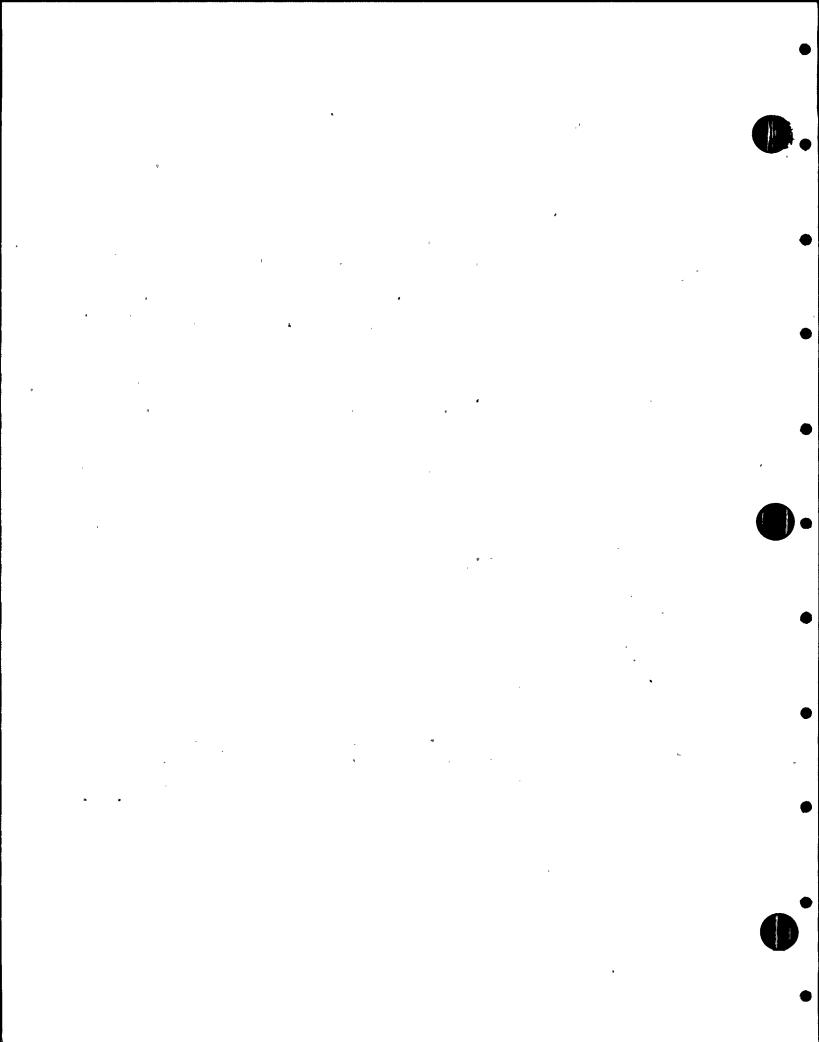
- 1. OWNER: WASHINGTON PUBLIC POWER SUPPLY SYSTEM, 3000 GEORGE WASHINGTON WAY, P.O. BOX 968, RICHLAND, WASHINGTON 99352 2. PLANT: WNP-2, HANFORD RESERVATION, BENTON COUNTY, WA.
- 3. PLANT UNIT: WNP-2 4. OWNER CERTIFICATE OF AUTHORIZATION: N/A
- 5. COMMERCIAL SERVICE DATE: 12/13/1984 6. NATIONAL BOARD NUMBER: N/A
- 10. ABSTRACT OF EXAMINATIONS. LIST OF EXAMINATIONS:

CO	DE CATEGORY	IDENTIFICATION NO.	DESCRIPTION	ITEM NO.	METHOD	DRAWING	NO.
IW	ıF	RHR-965N	ANCHOR	F-X	VT3H	RHR-201	
		RHR-1019N	STRUT	F-X	VT3F	RHR-201	
		RHR-240	80 X	F-X	VT3F	RHR-201	
		RHR-964N	ANCHOR	F-X	VT3F	RHR-201	
		MS-HC-1	SPRING (2)	F-X	VT3F	MS-103	
		MS-SC-6	PSA-35 SNUBBER	F-X•	VT3E	MS-103	
		MS-SC-7	PSA-35 SNUBBER	F-X	VT3F	MS-103	
		MS-SC-5	PSA-35 SNUBBER		·VT3H	MS-103	
		MS-SC-8	PSA-35 SNUBBER	F-X	VT3F	MS-103	
		MS-HC-2	SPRING	F-X	VT3H	MS-103	
		MS-SD-6	PSA-35 SNUBBER	F-X	VT3h	MS-104	
		MS-SD-7	PSA-35 SNUBBER	F-X	VT3E	MS-104	
		MS-SD-5	PSA-35 SNUBBER	F-X	VT3+	MS-104	;
		MS-SD-9	PSA-35 SNUBBER	F-X	VT3h	MS-104	
		MS-260	SPRING	F-X	VT3H	MS-105	
		MS-1C-1PS	STRUT	F-X	VT3P	MS-105	
		MS-261	SPRING	F-X	VT3E	MS-105	
		MS-155	STRUT	F-X	VT3H	MS-202	
		MS-178	SPRING	F-X	VT3E	MS-202	
		MS-179	STRUT(2)	F-X	VT3F	MS-202	
		MS-152	SPRING (2)	F-X	VT3F	MS-202	
		MS-151	PSA-3 SN(2)	F-X	VT3H	MS-202	
		MS-150 ·	STRUT	F-X	YT3P	MS-202	
		MS-149	SPRING (2)	F-X	VT3F	MS-202	
		NS-146	SPRING (2)	F-X	VT3H	MS-202	
		MS-144	SPRING	F-X	VT3E	MS-202	
		MS-142	SPRING	F-X	VT3H	MS-202	
		MS-31	STRUT	F-X	VT3H	MS-203	
		MS-30	SPRING (2)	F-X	VT3H	MS-203	
		MS-49	SPRING	F-X	VT3H	MS-203	
		MS-28	SPRING	F-X	VT3H	MS-203	
		MS-141	SPRING	F-X	VT3H	MS-203	
		MS-24	SPRING	F-X	VT3F	MS-203	



- 1. OWNER: WASHINGTON PUBLIC POWER SUPPLY SYSTEM, 3000 GEORGE WASHINGTON WAY, P.O. BOX 968, RICHLAND, WASHINGTON 99352 2. PLANT: WNP-2, HANFORD RESERVATION, BENTON COUNTY, WA.
- 3. PLANT UNIT: WNP-2 4. OWNER CERTIFICATE OF AUTHORIZATION: N/A
- 5. COMMERCIAL SERVICE DATE: 12/13/1984 6. NATIONAL BOARD NUMBER: N/A
- 10. ABSTRACT OF EXAMINATIONS. LIST OF EXAMINATIONS:

CODE CATEGORY	IDENTIFICATION NO.	DESCRIPTION	ITEM NO.	METHOD	DRAWING NO.
IWF	MS-55	SPRING (2)	F-X	VT3H	MS-204
	RFW-152 .	SPRING	F-X	VT3H	RFW-101
	RF以-151	PSA-35 SNUBBER	F-X	VT3H	RFW-101
	RFW-929N	PSA-10 SNUBBER	F-X	VT3F	RFW-101
	RFW-159	SPRING	F-X	VT3+	RFW-101
	RFW-182	SPRING	F-X	VT3H	RFW-102
	RFW-184	SPRING	F-X	VT3H	RFW-102
	RFV-173	SPRING	F-X	VT3F	RFW-102
	RFW-171	PSA-10 SNUBBER	F-X	VT3h	RFW-102
	RFW-915N	PSA-10 SNUBBER	F-X	VT3H	RFW-102
	RFW-183	SPRING	F-X	VT3H	RFV-102
	RFW-177	SPRING	F-X	VT3E	RFW-103
	RFW-181	SPRING	F-X	VT3H	RFW-103
	RRC-HA-9	SPRING .	F-X	VT3k	RRC-101
	RRC-SA-13	PSA-35 SNUBBER	F-X	VT3F	RRC-101
	RRC-SA-11	PSA-35 SNUBBER	F-X	VT3H	RRC-101
	RRC-HA-8	SPRING	F-X	VT3F	RRC-101
	RRC-SA-12	PSA-35 SNUBBER	F-X	VT3H	RRC-101
	RRC-SA-14	PSA-35 SNUBBER	F-X	VT3F	RRC-101
	RRC-1	SPRING	F-X	VT3F	RRC-105
	RHR-SA-50	PSA-35 SNUBBER	F-X	VT3H	RRC-105
	RWCU-1C-4PS	STRUT	F-X	VT3F	RWCU-101
	RWCU-1C-3	PSA-3 SN(2)	F-X	VT3F	RWCU-101
	FPC-170	80 X	F-X	VT3H	FPC-201
	FPC-172	BOX .	F-X	VT3F	FPC-201
	FPC-237	Box	F-X	VT3F	FPC-201
	FPC-238	Box	F-X	VT3H	FPC-201
	FPC-239	B0 X	F-X	VT3H	FPC-201
	FPC-57	BoX	F-X	VT3H	FPC-301
	FPC-58	BOX	F-X	VT3H	FPC-301
	FPC-919N	RIGID	F-X	VT3H	FPC-301
	FPC-59	вох	F-X	VT3H	FPC-301
	FPC-60	Box	F-X	VT3E	FPC-301







- 1. OWNER: WASHINGTON PUBLIC POWER SUPPLY SYSTEM, 3000 GEORGE WASHINGTON WAY, P.O. BOX 968, RICHLAND, WASHINGTON 99352 2. PLANT: WNP-2, HANFORD RESERVATION, BENTON COUNTY, WA.
- 3. PLANT UNIT: WNP-2 4. OWNER CERTIFICATE OF AUTHORIZATION: N/A
- 5. COMMERCIAL SERVICE DATE: 12/13/1984 6. NATIONAL BOARD NUMBER: N/A
- 10. ABSTRACT OF EXAMINATIONS. LIST OF EXAMINATIONS:

FPC-72

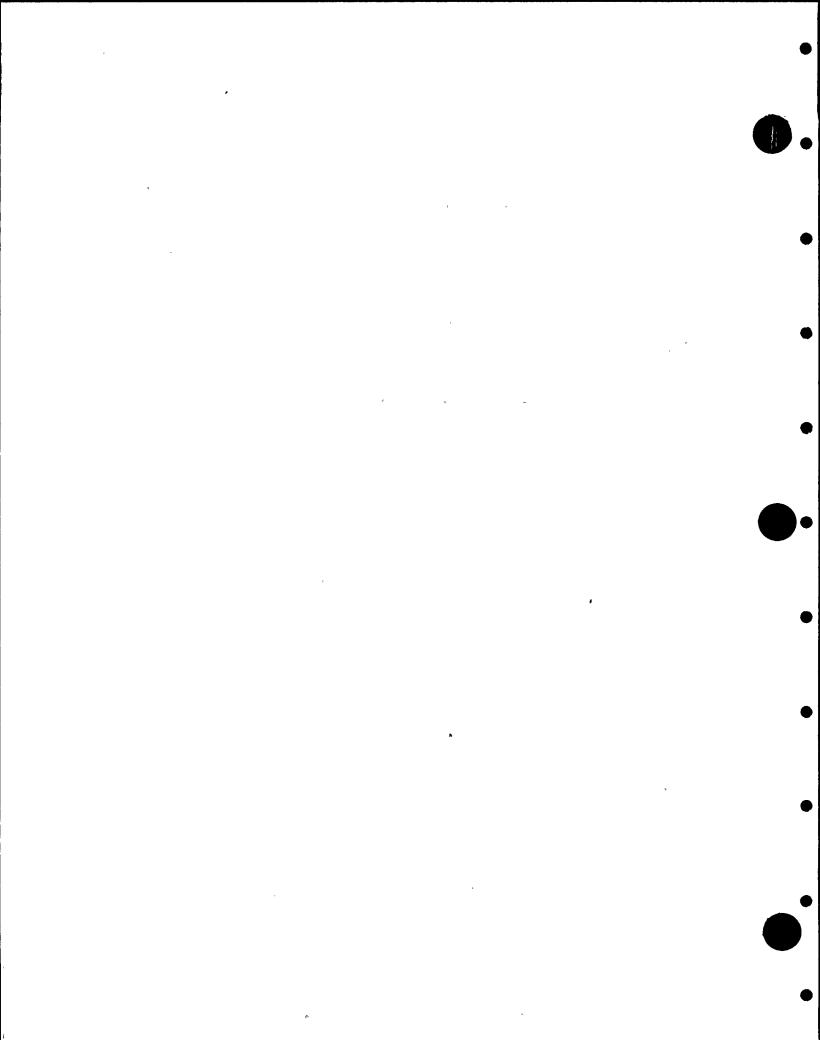
CODE CATEGORY	IDENTIFICATION NO.	DESCRIPTION	ITEM NO.	METFOR	DRAWING NO.
IWF	FPC-61	SPRING	F-X	VT3H	FPC-301
	FPC-62	BOX	F-X	VT3E	FPC-301
	FPC-909N	RIGID	F-X	VT3H	FPC-301
	FPC-908N	PSA-1 SN(2)	F-X	VT3F	FPC-301
	FPC-41	SPRING	F-X	VT3H	FPC-301
	FPC-40	STRUT	F-X	VT3F	FPC-301
	FPC-39	SPRING	F-X	VT3H	FPC-301
	FPC-208	вох	F-X	VT3H	FPC-302
	FPC-193°	SPRING	F-X	VT3H	FPC-303
	FPC-207	BOX	F-X	VT3H	FPC-303
	FPC-192	BOX	F-X	VT3H	FPC-303
	FPC-191	80 X	F-X	VT3H	FPC-303
	FPC-198	вох	F-X	VT3F	FPC-303
	FPC-189	SPRING	F-X	VT3H	FPC-303
	FPC-102	RIGID	F-X	VT3H	FPC-304
	FPC-103	RIGID	F-X	VT3F	FPC-304
	FPC-104	RIGID	F-X	VT3H	FPC-304
	FPC-105	RIGID	F-X	VT3H	FPC-304
	FPC-106	RIGID	F-X	VT3H	FPC-304
	FPC-107	RIGID	F-X	VT3F	FPC-304
	FPC-108	RIGID	F-X	VT3H	FPC-304
	FPC-109	RIGID	F-X	VT3H	FPC-304
	FPC-110	RIGID .	F-X	VT3H	FPC-304
	FPC-111	Вох	F-X	VT3H	FPC-304
	FPC-113	вох	F-X	VT3F	FPC-304
	FPC-92	RIGID	F-X	VT3H	FPC-305
	FPC-91	STRUT	F-X	VT3F	FPC-305
	FPC-77	RIGID	F-X	VT3H	FPC-305
	FPC-76	BOX -	F-X	VT3H	FPC-305
	FPC-75	RIGID	F-X	VT3f.	FPC-305
	FPC-74	RIGID	F-X	VT3H	FPC-305
	FPC-73	Вох	F-X	VT3H	FPC-305

RIGID

VT3K

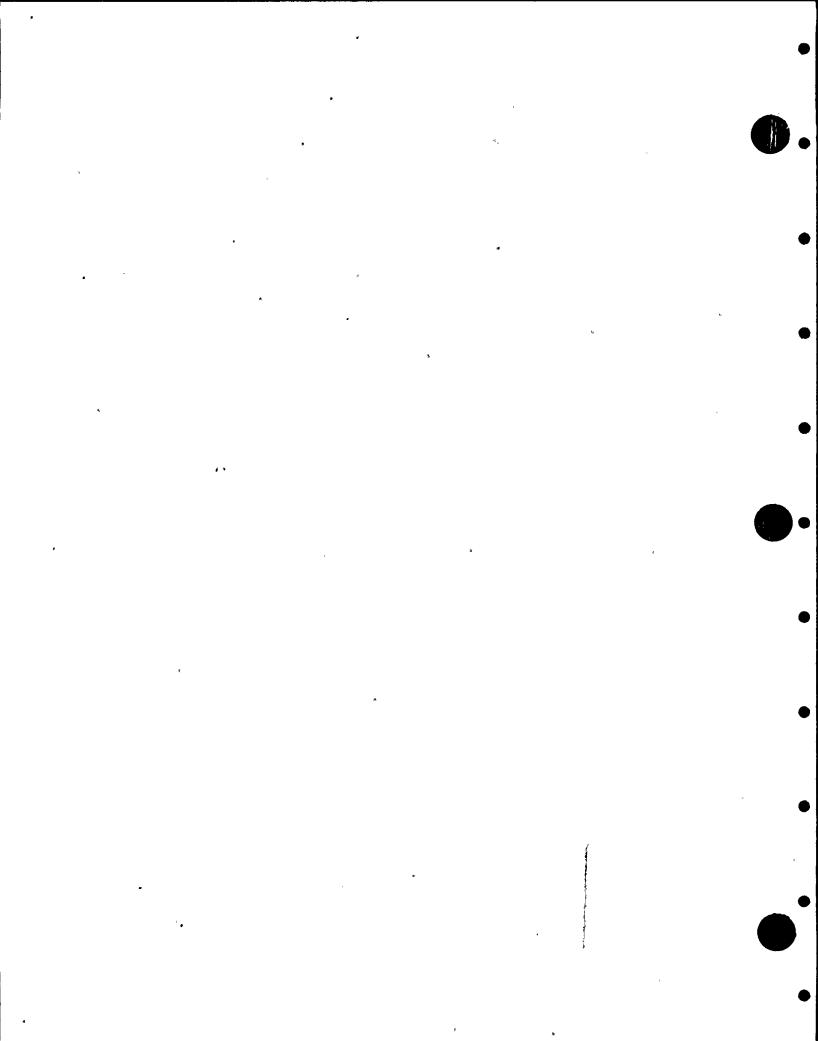
F-X

FPC-305



- 1. OWNER: WASHINGTON PUBLIC POWER SUPPLY SYSTEM, 3000 GFORGE WASHINGTON WAY, P.O. BOX 968, RICHLAND, WASHINGTON 99352 2. PLANT: WNP-2, HANFORD RESERVATION, BENTON COUNTY, WA.
- 3. PLANT UNIT: WNP-2 4. OWNER CERTIFICATE OF AUTHORIZATION: N/A
- 5. COMMERCIAL SERVICE DATE: 12/13/1984 6. NATIONAL BOARD NUMBER: N/A
- 16. ABSTRACT OF EXAMINATIONS. LIST OF EXAMINATIONS:

CODE CATEGORY	IDENTIFICATION NO.	DESCRIPTION	ITEM NO.	METFOD	DRAWING	NO.
IWF	FPC-71	80 X	F-X	<b>УТЗН</b>	FPC-305	
	FPC-68	RIGID	F-X	VT3H	FPC-305	
	SLC-4453-24	RIGID	F-X	VT3F	SLC-101	
	SLC-4453-25A	RIGID	F-X	VT3H	SLC-101	
	SLC-4453-26B	RIGID	F-X	VT3H	SLC-101	
	SLC-4453-214	RIGID	F-X	VT3F	SLC-101	
	SLC-4453-215	RIGID	F-X	VT3F	SLC-101	
	SLC-4453-29	RIGID	F-X	VT3F	SLC-101	
	SLC-4453-210	RIGID	F-X	VT3F	SLC-101	
	SLC-4453-211	RIGID	F-X	VT3F	SLC-101	
	SLC-4453-212	RIGID	F-X	VT3H	SLC-101	
	SLC-4453-213	RIGID	F-X	VT3E	SLC-101	
	SLC-4453-31	RIGID	F-X	VT3H	SLC-101	
	SLC-4453-32	RIGID	F-X	VT3E	SLC-101	

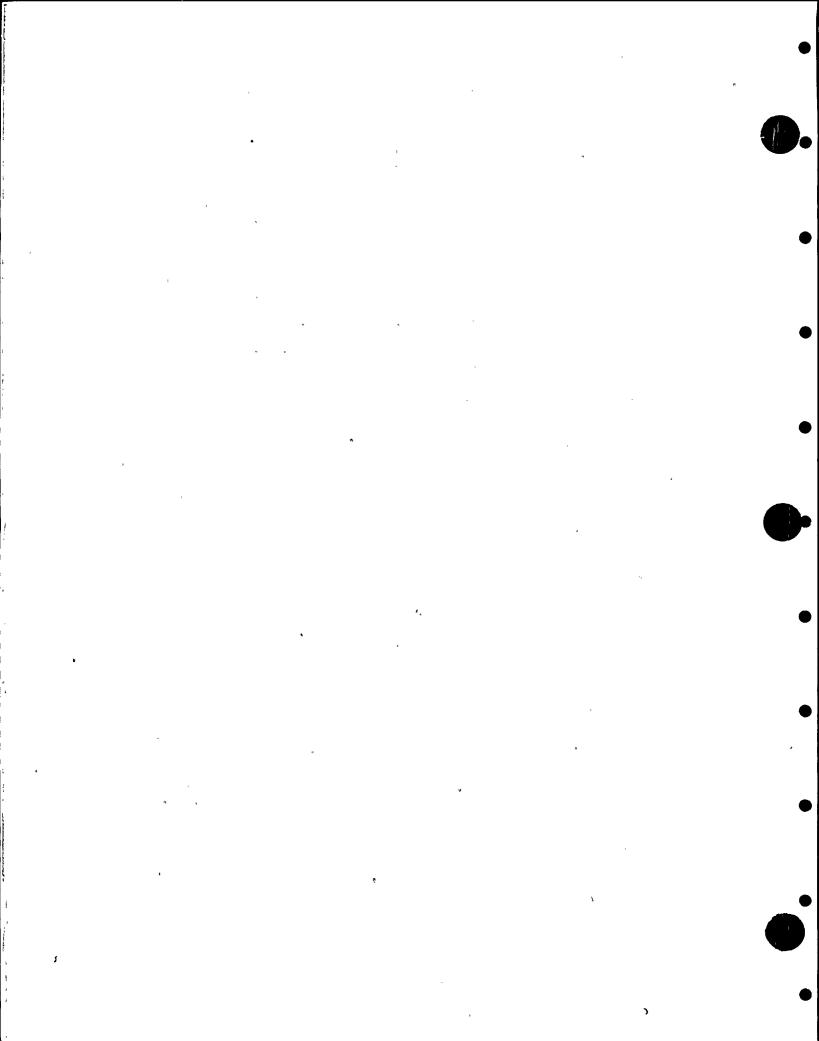


### APPENDIX B

Note: Outage RF90A is identified as "R5" in this summary

### Table Notes:

- 1. UT scans of welds were from both sides except where restricted by configuration or access, as noted in the "Remarks" column in the table. However, in all cases, excepted as noted in Note 2 below, these welds did receive full coverage from one side and meet ASME Section XI code requirements.
- 2. Main steam nozzles N3-108, N3-252 and N3-288 did not receive full volumetric examination to meet Section XI code requirements due to configuration (UT examination volume was 86.8% for the  $45^{\rm O}$  beam angle exam and 90.4% for the  $60^{\rm O}$  beam angle exam).



## WASHINGTON PUBLIC WER SUPPLY SYSTEM NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE SYSTEM OR COMPONENT RPV DESCRIPTION: NOZZLES - SHELL

PAGE 001 DATE 10/22/90

<u>IDENTNO.</u> N3-108	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULT NO INSIGNIF INDIC. INDIC.	SIGNIFICANT GEOMETRY OTHER	REMARKS
M3-100	VOL	1RPU-053	0	-	NO RECORDABLE INDICATIONS. NO SCAN NOZZLE SIDE DUE TO CONFIG.
		1RPU-052	45		NO RECORDABLE INDICATIONS.  EXAM LIMITED DUE TO NOZZLE CONFIG- URATION. NO SCAN ON NOZZLE SIDE.
N7 100 TD		1RPU-051	60		NO RECORDABLE INDICATIONS.  EXAM LIMITED DUE TO NOZZLE CONFIG- URATION. NO SCAN ON NOZZLE SIDE.
N3-108-IR	VOL	1RPU-054	0		NO RECORDABLE INDICATIONS
N7 050		1RPU-055	25		NO RECORDABLE INDICATIONS
N3-252	V OL	1RPU-053	0	,	NO RECORDABLE INDICATIONS. NO SCAN NOZZLE SIDE DUE TO CONFIG.
		1RPU-052	45		NO RECORDABLE INDICATIONS EXAM LIMITED DUE TO NOZZLE CONFIG- URATION. NO SCAN ON NOZZLE SIDE.
N7 050 ID		1RPU-051	60		NO RECORDABLE INDICATIONS.  EXAM LIMITED DUE TO NOZZLE CONFIG- URATION. NO SCAN ON NOZZLE SIDE.
N3-252-IR	V OL	1RPU-054	0		NO RECORDABLE INDICATIONS
		1RPU-055	25		NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R5

WASHINGTON PUBLIC WER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT RPV
DESCRIPTION: NOZZLES - SHELL

PAGE 002 DATE 10/22/90

DRAWING NO. RPV-101

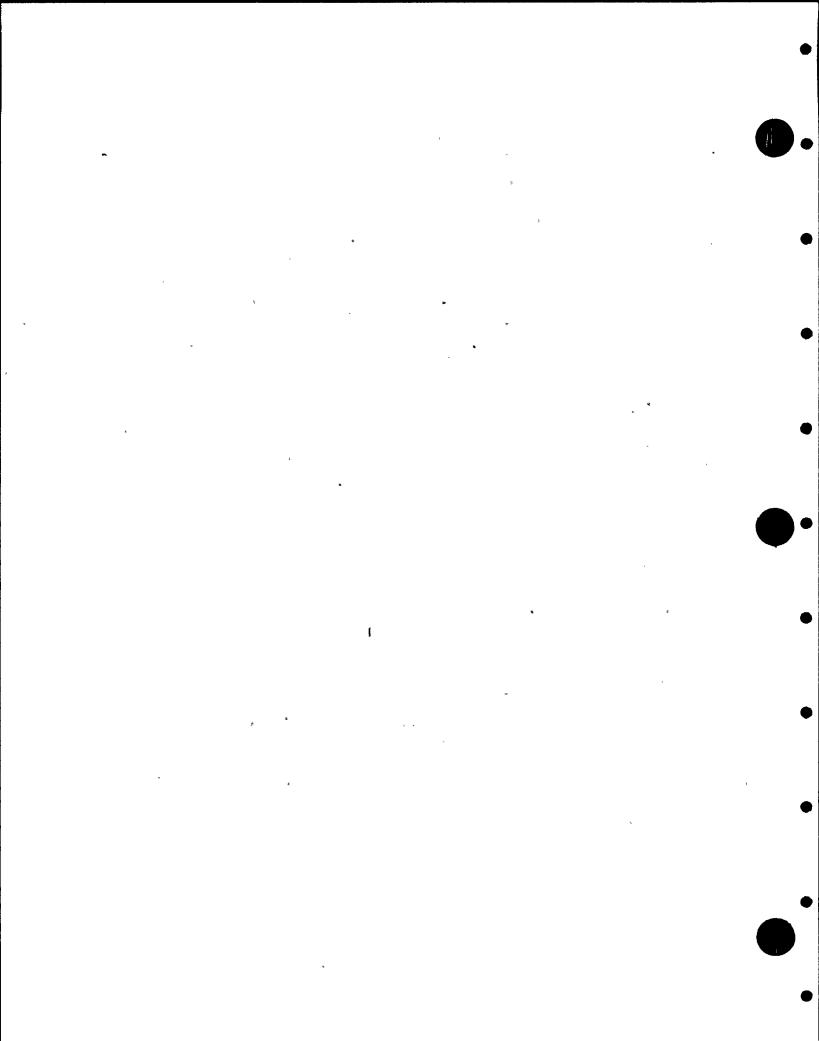
<u>IDENTNO.</u> N3-288	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS  NO INSIGNIF SIGNIFICANT  INDIC. INDIC. GEOMETRY OTHER	REMARKS
110 200	VOL	1RPU-053	0	NO RECORDABLE INDICATIONS. NO SCAN NOZZLE SIDE DUE TO CONFIG.
	*	1RPU-052	45	NO RECORDABLE INDICATIONS.  EXAM LIMITED DUE TO NOZZLE CONFIG- URATION. NO SCAN ON NOZZLE SIDE.
N7 000 TP		1RPU-051	60	NO RECORDABLE INDICATIONS.  EXAM LIMITED DUE TO NOZZLE CONFIGURATION. NO SCAN ON NOZZLE SIDE.
N3-288-IR	V OL	1RPU-054	0	NO RECORDABLE INDICATIONS
N4-270-IR		1RPU-055	25	NO RECORDABLE INDICATIONS
	V OL	1RPU-056	25,70	THREE EXAMINERS RECEIVED 610 MR EXPOSURE ON N4-270-IR & N4-270-NB EXAMINATIONS.
N4-270-NB	V OL	1RPU-056	25	THREE EXAMINERS RECEIVED 610 MR EXPOSURE ON N4-270-IR & N4-270-NB EXAMINATIONS.

## WASHINGTON PUBLIC OWER SUPPLY SYSTEM NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE SYSTEM OR COMPONENT RPV

PAGE 003 DATE 10/22/90

DESCRIPTION: RPV STUDS, NUTS, ETC

IDENT NO. RPV STUD 35-1-4	EXAM.	EXAM. DATA SHEET NO.	ИО	ION_RESULT INSIGNIF INDIC.	S SIGNIFICA GEOMETRY OTH		REMARKS
	VOL	1RPU-057	0				NO RECORDABLE INDICATIONS
RPV STUD 35-1-1	SUR	1RPM-029	ACC				NO RECORDABLE INDICATIONS
KI V 3100 33-1-1	VOL	1RPU-057	0				NO RECORDABLE INDICATIONS
RPV STUD 35-1-1	SUR	1RPM-029	ACC				NO RECORDABLE INDICATIONS
W. A. 2100 22.1-1	VOL	1RPU-057	0			~	NO RECORDABLE INDICATIONS
RPV STUD 35-1-2	SUR	1RPM-029	ACC				NO RECORDABLE INDICATIONS
W. A. G. O. D. T. E.	VOL	1RPU-057	0				NO RECORDABLE INDICATIONS
RPV STUD 35-1-3	SUR	1RPM-029	ACC				NO RECORDABLE INDICATIONS
W. C. O. O. O. O. O.	VOL	1RPU-057	0				NO RECORDABLE INDICATIONS
RPV STUD 35-1-3	SUR	1RPM-029	ACC	Ę			NO RECORDABLE INDICATIONS
W. 4. 0100 0,0 110	VOL	1RPU-057	0				NO RECORDABLE INDICATIONS
	SUR	1RPM-030		ACC			ONE 1/4" LINEAR INDICATION (AXIAL DIRECTION) IN SHANK, 4-1/2" FROM BASE CF TAPER.
RPV STUD 35-1-4	6A VOL	1RPU-057	0				NO RECORDABLE INDICATIONS
	SUR	1RPM-030	ACC				NO RECORDABLE INDICATIONS



WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R5

# WASHINGTON PUBLIC WER SUPPLY SYSTEM NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE SYSTEM OR COMPONENT RPV DESCRIPTION: RPV STUDS, NUTS, ETC

PAGE 004 DATE 10/22/90

DRAWING NO. RPV-101

			EXAM.				• 1
			DATA	EXAMINAT	ION RESULT	S	>
		EXAM.	SHEET	NO	INSIGNIF	SIGNIFICANT	<b>-</b>
	IDENTNO.	мтн.	NO.	INDIC.	INDIC.	GEOMETRY OTHER	REMARKS
	RPV STUD 35-1-5		<u> </u>				
	, 0,05 00 1 0	VOL	1RPV-057	0			NO RECORDABLE INDICATIONS
	RPV STUD 35-1-6	SUR	1RPM-030	ACC			NO RECORDABLE INDICATIONS
	W. 1 010D 33 1-0	V OL	1RPV-057	0		•	NO RECORDABLE INDICATIONS
	RPV STUD 35-1-6	SUR	1RPM-030	ACC			NO RECORDABLE INDICATIONS
Kr	W. A. 2100 22-1-9	, VOL	1RPU-057	0			NO RECORDABLE INDICATIONS
0	RPV STUD 35-1-7	SUR	1RPV-029	ACC			NO RECORDABLE INDICATIONS
	KFV 3100 33-1-7	VOL	1RPU-057	0			NO RECORDABLE INDICATIONS
	RPV NUT 36-1-4A	SUR	1RPM-029	ACC	•		NO RECORDABLE INDICATIONS
	N V NO1 38-1-4K	V OL	1RPU-058	0		•	NO RECORDABLE INDICATIONS
			1RPU-059	37		-	NO RECORDABLE INDICATIONS
			1RPU-060	45			NO RECORDABLE INDICATIONS
	RPV NUT 36-1-11	S UR	1RPM-031	ACC		·	NO RECORDABLE INDICATIONS
	KI V NOT OUT 1	^voL	1RPU-058	0			NO RECORDABLE INDICATIONS
			1RPU-059	37			NO RECORDABLE INDICATIONS
			1RPU-060	45			NO RECORDABLE INDICATIONS
							•

WASHINGTON PUBLIC FOWER SUPPLY SYSTEM NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE SYSTEM OR COMPONENT RPV DESCRIPTION: RPV STUDS, NUTS, ETC

PAGE 005 DATE 10/22/90

NO RECORDABLE INDICATIONS

IDENT NO.	EXAM.	EXAM. DATA SHEET NO	EXAMINATION RESULT NO INSIGNIF INDIC. INDIC.	SIGNIFICANT	REMARKS
DDV AULT 7711	SUR	1RPM-031	ACC		NO RECORDABLE INDICATIONS
RPV NUT 36-1-18	V OL	1RPU-058	0		NO RECORDABLE INDICATIONS
		1RPU-059	37		NO RECORDABLE INDICATIONS
		1RPU-060	45		NO RECORDABLE INDICATIONS
	SUR	1RPM-031	ACC		NO RECORDABLE INDICATIONS
RPV NUT 36-1-25	VOL	1RPU-058	0		NO RECORDABLE INDICATIONS
		1RPU-059	37	-	NO RECORDABLE INDICATIONS
		1RPU-060	45		NO RECORDABLE INDICATIONS
	SUR	1RPM-031	ACC	•	NO RECORDABLE INDICATIONS
RPV NUT 36-1-32	V OL	1RPU-058	0		NO RECORDABLE INDICATIONS
		1RPU-059°	37		NO RECORDABLE INDICATIONS
		1RPU-060	45	•	NO RECORDABLE INDICATIONS
	SUR	1RPM-031	ACC		NO RECORDABLE INDICATIONS
RPV NUT 36-1-39	V OL	1RPU-058	0		NO RECORDABLE INDICATIONS
					•

1RPU-059 37

•

•

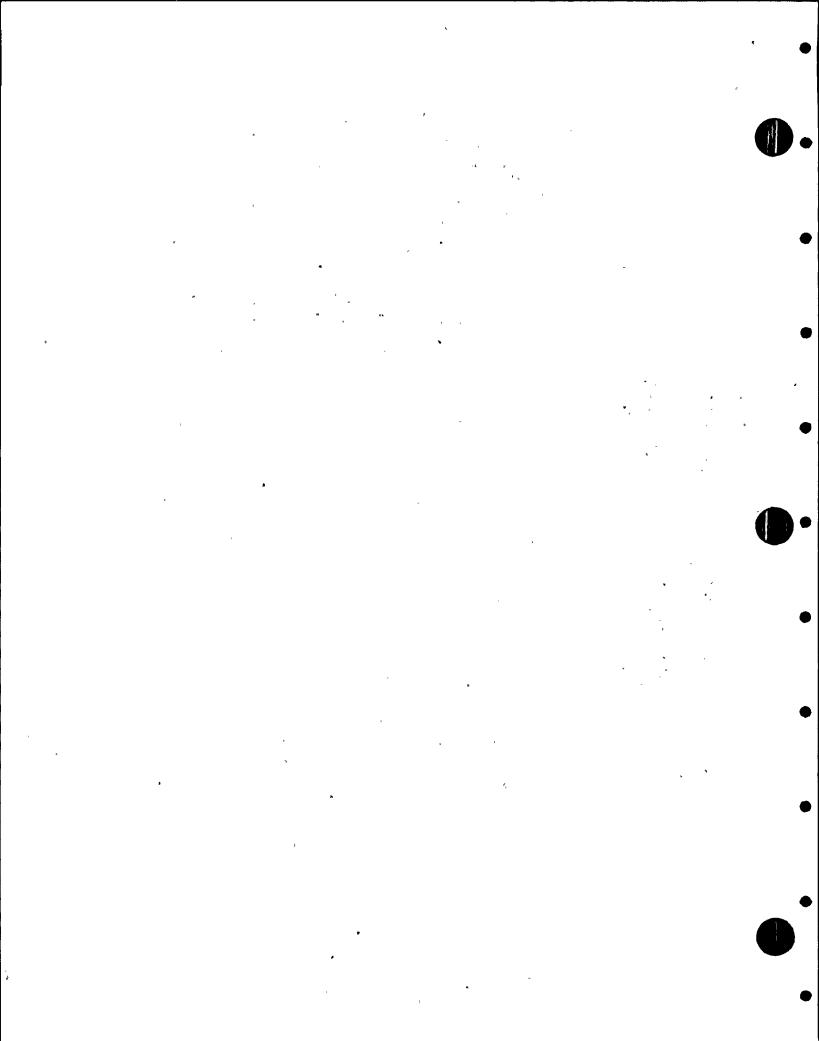
•

\*

#### 



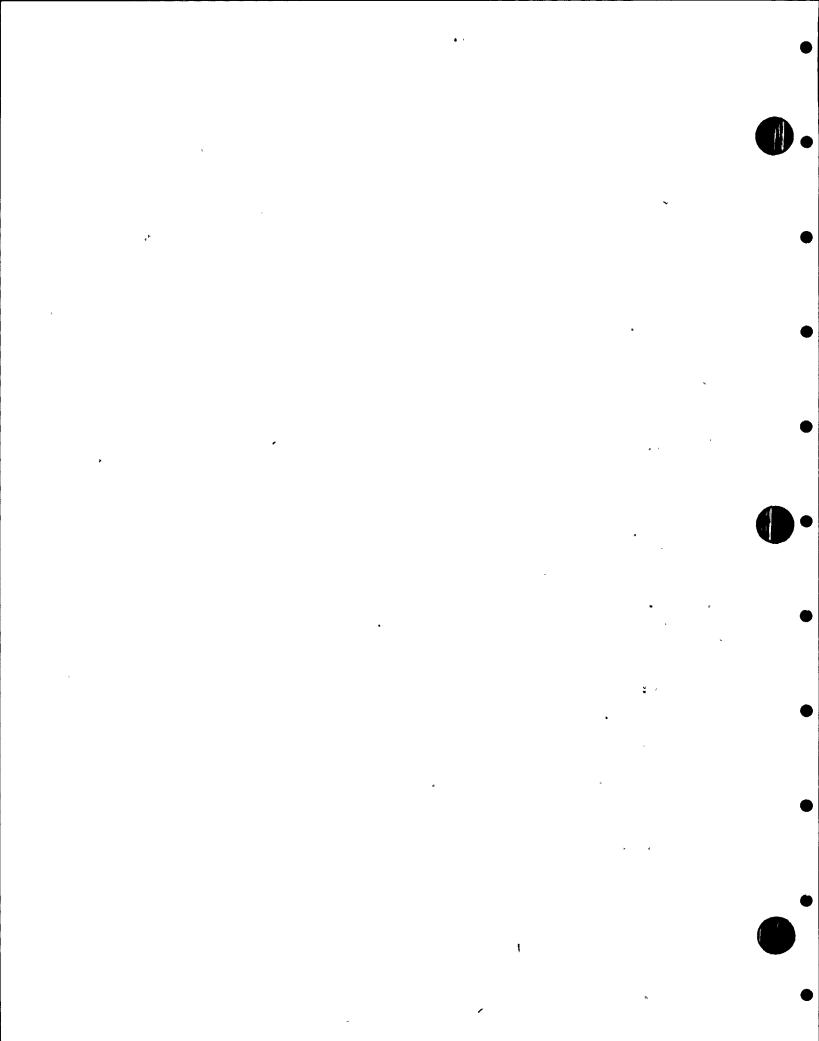
IDENT NO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULT NO INSIGNIF INDIC+ INDIC+	SIGNIFICANT .	REMARKS
		1RPU-060	45		NO RECORDABLE INDICATIONS
	SUR	1RPM-031	ACC		NO RECORDABLE INDICATIONS
RPV NUT 36-1-46	A VOL	1RPU-058	0		NO RECORDABLE INDICATIONS
		1RPU-059	37		NO RECORDABLE INDICATIONS
•		1RPU-060	45		NO RECORDABLE INDICATIONS
	SUR	1RPM-031	ACC		NO RECORDABLE INDICATIONS
RPV NUT 36-1-53	VOL.	1RPU-058	0		NO RECORDABLE INDICATIONS
		1RPU-059	37		NO RECORDABLE INDICATIONS
		1RPU-060	45		NO RECORDABLE INDICATIONS
	SUR	1RPM-031	ACC		NO RECORDABLE INDICATIONS
RPV NUT 36-1-60	V OL	1RPU-058	0		NO RECORDABLE INDICATIONS
		1RPU-059	37		NO RECORDABLE INDICATIONS
		1RPU-060	45		NO RECORDABLE INDICATIONS
000 000 000	SUR	1RPM-031	ACC		NO RECORDABLE INDICATIONS
RPV NUT 36-1-67	'A VOL	1RPU-058	0	-	NO RECORDABLE INDICATIONS



## WASHINGTON PUBLIC FOWER SUPPLY SYSTEM NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE SYSTEM OR COMPONENT RPV DESCRIPTION: RPV STUDS, NUTS, ETC

PAGE 007
DATE 10/22/90

	IDENT NO.	EXAM. MIH.	EXAM. DATA SHEET NO.	NO	ION_RESULT: INSIGNIF INDIC.	SIGNIFICANT GEOMETRY QIHER	REMARKS
			1RPU-059	37			NO RECORDABLE INDICATIONS
			1RPU-060	45			NO RECORDABLE INDICATIONS
	500 WIT 74 4 54	SUR	1RPM-031	ACC			NO RECORDABLE INDICATIONS
	RPV NUT 36-1-74	A VOL	1RPU-058	0			NO RECORDABLE INDICATIONS
			1RPU-059	37			NO RECORDABLE INDICATIONS
			1RPU-060	45			NO RECORDABLE INDICATIONS
		SUR	1RPM-031	ACC	-		NO RECORDABLE INDICATIONS
RPV WASHERS	V T-1	1RPV-122	ACC	-		THE FCLLOWING WASHERS WERE EXAMINED: 36-1-4A, 11A, 18A, 25A, 32A, 39A, 46A, 53A, 60A, 67A, 74A.	
	INCORE DRY TUBE	S					JERY CONT TONE JONE OUNT OTHE PANE
		V T-1	1RPV-125	ACC			NO RECORDABLE INDICATIONS
	CORE SPRAY SPAR		1004 105	400			NO RECORDABLE INDICATIONS
	STEAM DRYER	V T-1	1RPV-125	ACC			NO RECORDABLE INDICATIONS
		V T-1	1RPV-125	ACC			NO RECORDABLE INDICATIONS.
	RPV INTERIOR						
		V T-3	1RPV-125	ACC .			EXAM LHTD. TO SPEC. HOLDERS.  NO ANALOMIES DETECTED IN BRACKETS  AND WELDS OF THE TWO SURVEILLANCE  SPECIMEN HOLDERS.



### WASHINGTON PUBLIC WER SUPPLY SYSTEM NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE SYSTEM OR COMPONENT RPV

PAGE 008
DATE 10/22/90

DESCRIPTION: RPV STUDS, NUTS, ETC

IDENTNO.	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINAT NO INDIC.	ION RESULT INSIGNIF INDIC.	S SIGNIF GEOMETRY	REMARKS
	V T-1	1RPV-121	ACC			NO RECORDABLE INDICATIONS. VT-1 VISUAL EXAM OF 4 STEAM DRYER HOLDDCWN LUGS ON ID OF TOP RPV HD.
RPV-PB-101(L)	V T-2	1VT2-90	ACC			NO RECORDABLE INDICATIONS.

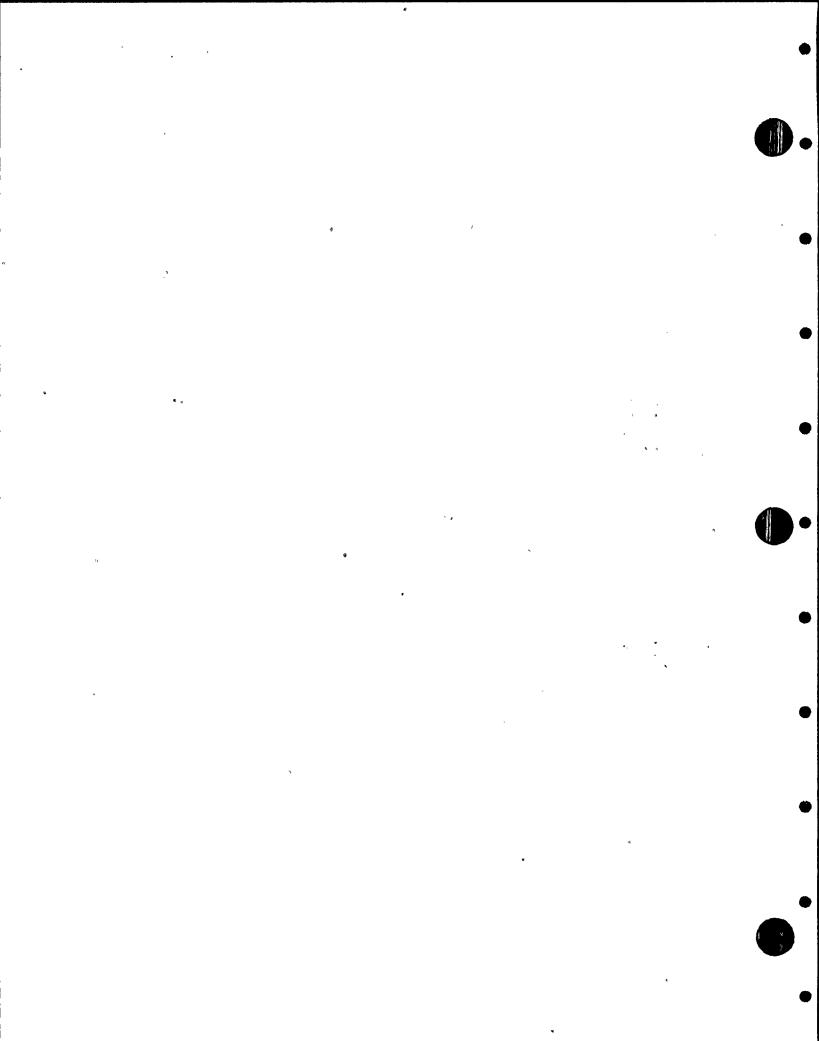
WNP-02 INTERVAL: 01 PERIOD: 2 OUTAGE: R5

## WASHINGTON PUBLIC FOWER SUPPLY SYSTEM NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE SYSTEM OR COMPONENT RPV DESCRIPTION: TOP & BTM HD NOZZLES

PAGE 001
DATE 10/22/90

DRAWING NO. RPV-102

DIVATIO HOS IVI	V-102	EXAM. Data	EXAMINAT	ION RESULT	'S	
IDENTNO. 6SPARE-1BU	EXAM. MTH.	SHEET NO.		INSIGNIF INDIC.	SIGNIFICANT GEOMETRY OTHER	REMARKS
	V T-1	1RPV-123		ACC	•	MINOR CORROSION ON TOP AND BOTTOM OF STUD ENDS AND IN SOME THREADS. NO APPARENT MATERIAL LOSS. EXAMINED IN PLACE.
CRD HOUSING 3		1RPV-124		ACC		2 ACCEP, 6 REJ FOR PITTING CORR. REF ERTR 1-014 FOR EVALUATION.
	0 == 0. =	1RPV-116	ACC	4.		NO RECORDABLE INDICATIONS. PSI ON 8 NEW BOLTS INSTALLED AT R5
CRD HOUSING 1		1RPV-124	ACC			8 REJ. FOR PITTING CORROSION. REF. ERTR 1-014 FOR EVALUATION.
CDD UDUSTNO 7	4 55 DIT	1RPV-101	ACC			NO RECORDABLE INDICATIONS. PSI ON 8 NEW BOLTS INSTALLED AT R5
CRD HOUSING 3		1RPV-124		c	REJ	2 ACCEP, 6 REJ FOR PITTING CORR. REF. ERTR 1-014 FOR EVALUATION.
000 4000740	A 54 D. T	1RPV-113	ACC		•	NO RECORDABLE INDICATIONS. PSI ON 8 NEW BOLTS INSTALLED AT R5
CRD HOUSING 1	VT-1	1RPV-124			REJ	2 ACCEP, 6 REJ FOR PITTING CORR. THE TWO ACCEPTABLE BOLTS WERE USED IN CRC HOUSING 34-47 AT R5. REF. ERTR 1-014 FOR EVALUATION.
					•	



## WASHINGTON PUBLIC OVER SUPPLY SYSTEM . NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE SYSTEM OR COMPONENT RPV

PAGE 002 DATE 10/22/90

DESCRIPTION: TOP & BTM HD NOZZLES

IDENTNO.	EXAM. MIH.	EXAM. DATA SHEET NO.	NO	I <u>on result</u> Insignif Indic.	S SIGNIF GEOMEIRY		REMARKS
		1RPV-091	AĆC				NO RECORDABLE INDICATIONS. PSI ON 8 NEW BOLTS INSTALLED AT R5
CRD HOUSING 14-	-51 BLT						TOT ON O HER DOLLO THOUNDED AT NO
·	V T-1	1RPV-124				REJ	A ACCEP, 4 REJ FOR PITTING CORR. REF ERTR 1-014 FOR EVALUATION.
		1RPV-097	ACC		•		NO RECORDABLE INDICATIONS. PSI ON 8 NEW BOLTS INSTALLED AT R5

# WASHINGTON PUBLIC VER SUPPLY SYSTEM NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE SYSTEM OR COMPONENT RPV DESCRIPTION: OP & BTH HD NOZZLES

PAGE 003 DATE 10/22/90

EXAM.		EXAMINATION RESULT	SIGNIFICANT	DENABLES
IDENTNO. MTH. CRD HOUSING 26-51 BLT	NO.	INDIC. INDIC.	GEOMETRY OTHER	REMARKS
V T-1	1RPV-124		REJ	3 ACCEP, 5 REJ FOR PITTING CORR. REF. ERTR 1-014 FOR EVALUATION.
	1RPV-107	ACC		NO RECORDABLE INDICATIONS.

• . \* \* \* \* \* ,

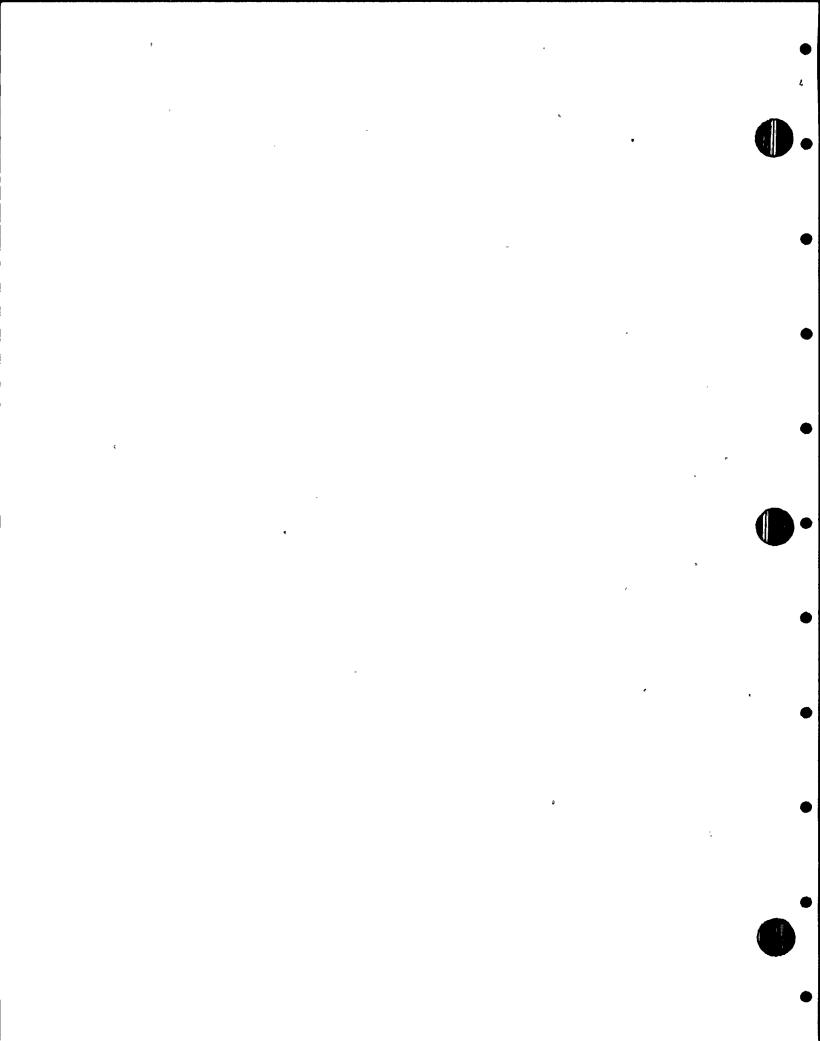
WNP-02 INTERVAL: 01 PERIOD: 02 OUTAGE: R5

### WASHINGTON PUBLIC FOWER SUPPLY SYSTEM NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE SYSTEM OR COMPONENT RPV DESCRIPTION: TOP & BTM HD NOZZLES



DKARING	NU.	KPV-1UZ	

EXAM.  IDENTNO. MTH.  CRD HOUSING 10-47 BLT	EXAM. DATA SHEET NO.	EXAMINATION RESULT NO INSIGNIF INDIC. INDIC.	SIGNIFICANT GEOMETRY OTHER	REMARKS
VT-1	1RPV-124		REJ	6 ACCEP, 2 REJ FOR PITTING CORR. REF. ERTR 1-014 FOR EVALUATION.
CDD HOHETME OZ AZ DIT	1RPV-090	ACC		NO RECORDABLE INDICATIONS. PSI ON 8 NEW BOLTS INSTALLED AT R5
CRD HOUSING 26-47 BLT VT-1	1RPV-124		REJ	3 ACCEP, 4 REJ FOR PITTING CORR. REF. ERTR 1-014 FOR EVALUATION.
	1RPV-106	ACC		NO RECORDABLE INICATIONS. PSI ON 8 NEW BOLTS INSTALLED AT R5
CRD HOUSING 34-47 BLT VT-1	1RPV-124	ACC .		NO RECORDABLE INDICATIONS. 8 IN SET TO BE USED AS SPARES.
	1RPV-119	ACC .		*PSI* ON 6 BLTS REMOVED FROM CRD DRIVE 02-39 & 2 FROM 10-51 AT R5. CLEANED, EXAMINED AND INSTALLED IN 34-47 AT R5. SLIGHT TARNISH STAINS AND MINOR CORR. PITS.
CRD HOUSING 14-43 BLT VT-1	1RPV-124		REJ	1 ACCEP, 7 REJ FOR PITTING CORR. REF. ERTR 1-014 FOR EVALUATION.
COD HOUSTHE 70 67 CLT	1RPV-096	ACC		NO RECORDABLE INDICATIONS. PSI ON 8 NEW BOLTS INSTALLED AT R5
CRD HOUSING 38-43 BLT VT-1	1RPV-124		REJ	8 REJ FOR PITTING CORROSION. REF. ERTR 1-014 FOR EVALUATION.



## WASHINGTON PUBLIC OWER SUPPLY SYSTEM NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE SYSTEM OR COMPONENT RPV DESCRIPTION: 10P & BTM HD NOZZLES



PSI ON 8 NEW BOLTS INSTALLED AT R5

DRAWING NO. RPV-102	EXAM.			
<del>-</del>	DATA KAM. SHEET H. NO.	EXAMINATION RESULT NO INSIGNIF INDIC. INDIC.	SIGNIFICANT	<u>REMARKS</u>
	1RPV-115	ACC		NO RECORDABLE INDICATIONS. PSI ON 8 NEW BOLTS INSTALLED AT R5
CRD HOUSING 02-39 Vi	BLT [-1 1RPV-124		REJ	6 ACCEP, 2 REJ FOR PITTING CORR. 6 ACCEP BOLTS WERE ASSIGNED TO CRD 03-47 FOR INSTALLATION AT R5. REF. ERTR 1-014 FOR EVALUATION.
	1RPV-085	ACC	•	NO RECORDABLE INDICATIONS. PSI ON 8 NEW BOLTS INSTALLED AT R5
CRD HOUSING 14-39 Vi	BLT [-1 1RPV-124		REJ	4 ACCEP, 4 REJ FOR PITTING CORR. REF. ERTR 1-014 FOR EVALUATION.
	1RPV-095	ACC		NO RECORDABLE INDICATIONS. PSI ON 8NEW BOLTS INSTALLED AT R5
CRD HOUSING 18-39 Vi	1RPV-124		REJ	8 REJ FOR PITTING CORROSION. REF ERTR 1-014 FOR EVALUATION
	1RPV-100	ACC	,	NO RECORDABLE INDICATIONS. PSI ON 8 NEW BOLTS INSTALLED AT R5
CRD HOUSING 22-35 Vi	BLT [-1 1RPV-124		REJ	8 REJ FOR PITTING CORROSION. REF. ERTR 1-014 FOR EVALUATION.
	1RPV-102	ACC		NO RECORDABLE INDICATIONS.

WNP-02
INTERVAL: 01
PERIOD: 02
OUTAGE: R5

## WASHINGTON PUBLIC WER SUPPLY SYSTEM NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE SYSTEM OR COMPONENT RPV DESCRIPTION: TOP & BTM HD NOZZLES

PAGE 006 DATE 10/22/90

DRAWING	NO.	RPV-102

	EXAM. DATA	EXAMINATION RESULT	·S	
EXAM.	SHEET	NO INSIGNIF		
IDENTNO. MIH.	NO	INDIC. INDIC.	GEOMETRY OTHER	REMARKS
CRD HOUSING 26-35 BLT VT-1	1RPV-124		REJ	8 REJ FOR PITTING CORROSION. REF. ERTR 1-014 FOR EVALUATION.
CRD HOUSING 10-27 BLT	1RPV-105	ACC		NO RECORDABLE INDICATIONS. PSI ON 8 NEW BOLTS INSTALLED AT R5
VT-1	1RPV-124		REJ	3 ACCEP, 5 REJ FOR PITTING CORR. REF. ERTR 1-014 FOR EVALUATION.
CRD HOUSTNE 14-27 BLT	1RPV-089	ACC	•	NO RECORDABLE INDICATIONS. PSI OF 8 NEW BOLTS INSTALLED AT R5
CRD HOUSING 14-27 BLT VT-1	1RPV-124		REJ	5 ACCEP, 3 REJ FOR PITTING CORR. REF ERTR 1-014 FOR EVALUATION.
CRD HOUSING 42-27 BLT	1RPV-094	ACC		NO RECORDABLE INDICATIONS. PSI ON 8 NEW BOLTS INSTALLED AT R5
CRD HOUSING 42-27 BLT VT-1	1RPV-124		REJ	2 ACCEP. 6 REJ FOR PITTING CORR. REF. ERTR 1-104 FOR EVALUATION.
CRD HOUSING 10-23 BLT	1RPV-118	ACC		NO RECORDABLE INDICATIONS. PSI ON 8 NEW BOLTS INSTALLED AT R5
VT-1	1RPV-124	ACC		NO RECORDABLE INDICATIONS. 8 BOLTS EXAMINED AND ACCEPTED.
	1RPV-088	ACC	:	NO RECORDABLE INDICATIONS. PSI ON 8 NEW CRD FLG CAP SCREWS

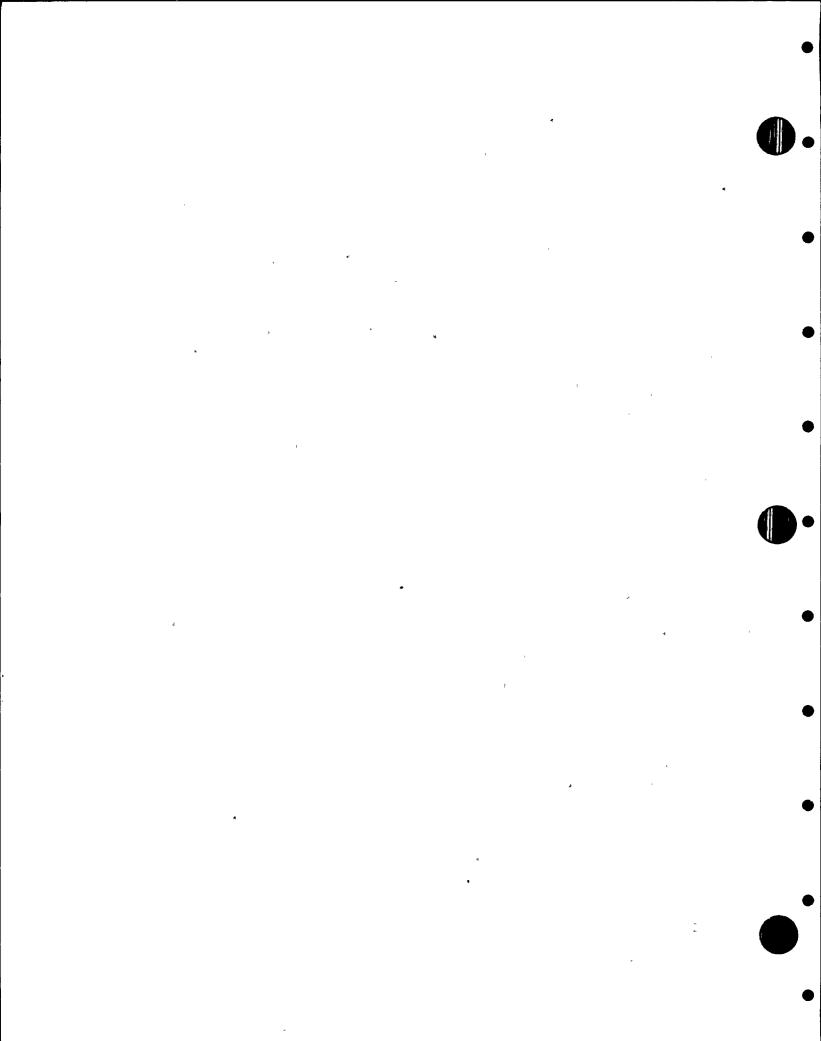
;

#### WASHINGTON PUBLIC OWER SUPPLY SYSTEM NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE SYSTEM OR COMPONENT RPV DESCRIPTION: TOP & BIM HD NOZZLES

PAGE 007
DATE 10/22/90

DRAWING NO. RPV-102

DIVATING MOS KI 4-102	EXAM. DATA	EXAMINATION_RESULT	'S ·	•
EXAM.  IDENTNO. MIH.  CRD HOUSING 14-23 BLT	SHEET NO.	NO INSIGNIF		REMARKS
VT-1	1RPV-124		REJ	5 ACCEP, 3 REJ FOR PITTING CORR. REF. ERTR 1-014 FOR EVALUATION.
	1RPV-093	ACC		NO RECORDABLE INDICATIONS. PSI ON 8 NEW BOLTS INSTALLED AT R5
CRD HOUSING 18-23 BLT VT-1	1RPV-124		REJ	2 ACCEP. 6 REJ FOR PITTING CORR. REF. ERTR 1-014 FOR EVALUATION.
CRD HOUSING 34-23 BLT	1RPV-099		REJ	NO RECORDABLE INDICATIONS. PSI ON 8 NEW BOLTS INSTALLED AT R5
_	1RPV-124		REJ	5 ACC, 3 REJ FOR PITTING CORR. REF ERTR 1-014 FOR EVALUATION.
CRD HOUSING 02-19 BLT	1RPV-111	ACC	•	NO RECORDABLE INDICATIONS. PSI ON 8 NEW BOLTS INSTALLED AT R5
	1RPV-124		REJ	4 ACCEP, 4 REJ FOR PITTING CORR. REF. ERTR 1-014 FOR EVALUATION.
COD HOUSTNE OF 10 OF	1RPV-084	ACC		NO RECORDABLE INDICATIONS. PSI ON 8 NEW BOLTS INSTALLED AT R5 INSTALLED AT R5.
CRD HOUSING 06-19 BLT VT-1	1RPV-124		REJ	4 ACCEP, 4 REJ FOR PITTING CORR. REF. ERTR 1-104 FOR EVALUATION.



WNP-02
INTERVAL: 01
PERIOD: 02
OUTAGE: R5
DRAWING NO. RPV-102

## WASHINGTON PUBLIC WER SUPPLY SYSTEM NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE SYSTEM OR COMPONENT RPV DESCRIPTION: TOP & BTM HD NOZZLES



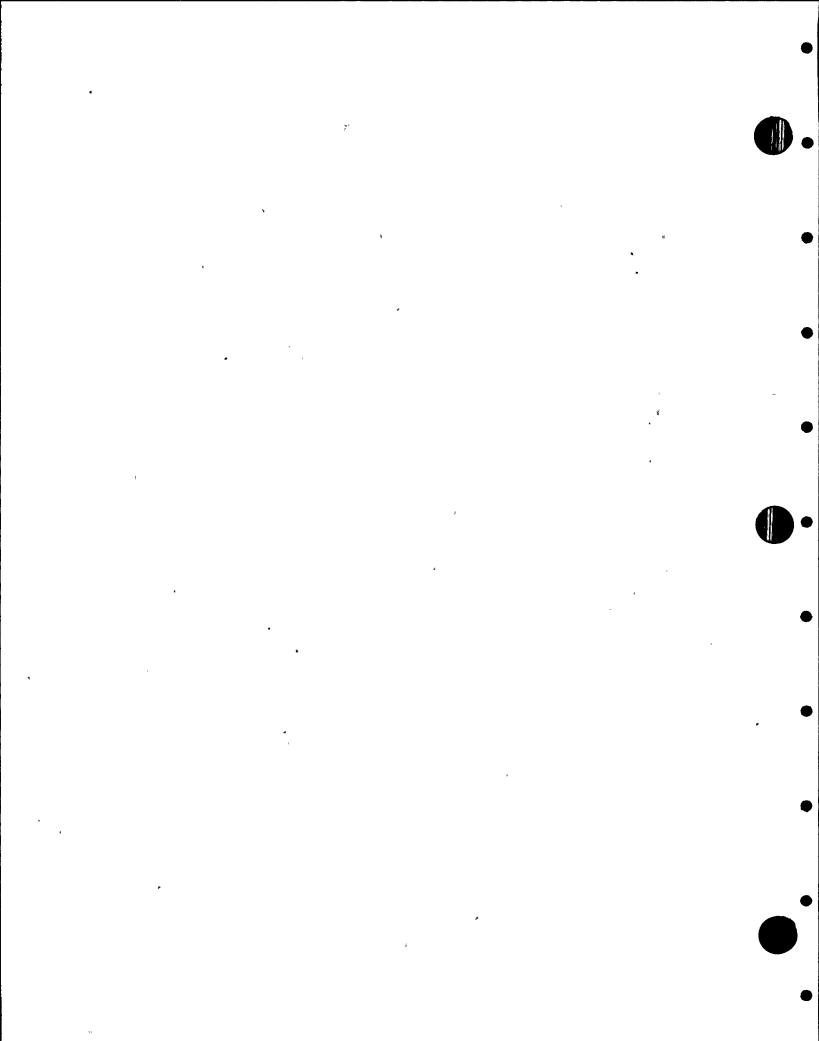
IDENT NO.	EXAM.	EXAM. DATA SHEET NO.	NO	ION RESULT INSIGNIF INDIC.	SIGNIF	ICANT OTHER	REMARKS
	10 0 7	1RPV-087	ACC				NO RECORDABLE INDICATIONS. PSI ON 8 NEW BOLTS INSTALLED AT R5
CRD HOUSING 26	-19 BL1 VT-1	1RPV-124				REJ	4 ACCEP, 4 REJ FOR PITTING CORR. REF. ERTR 1-014 FOR EVALUATION.
	40 0.7	1RPV-104	ACC				NO RECORDABLE INDICATIONS. PSI ON 8 NEW BOLTS INSTALLED AT R5
CRD HOUSING 34	-19 BL I VT-1	1RPV-124			•	REJ	6 ACCEP, 2 REJ FOR PITTING CORR. REF. ERTR 1-014 FOR EVALUATION.
000 000000 70	· .	1RPV-110	ACC		2	,	NO RECORDABLE INDICATIONS. PSI ON 8 NEW BOLTS INSTALLED AT R5
CRD HOUSING 38	-19 BL I VT-1	1RPV-124			•	REJ	5 ACCEP, 3 REJ FOR PITTING CORR. REF. ERTR 1-104 FOR EVALUATION.
		1RPV-114	ACC				NO RECORDABLE INDICATIONS. PSI ON 8 NEW BOLTS INSTALLED AT R5
CRD HOUSING 06	-15 BLT VT-1	1RPV-124				REJ	7 EXAMINED: 4 ACCEP, 3 REJ FOR PITTING CORROSION. REF. ERTR 1-014 FOR EVALUATION.
		1RPV-086	ACC		_		NO RECORDABLE INDICATIONS. PSI OF 8 NEW BOLTS INSTALLED AT R5

#### WASHINGTON PUBLIC WER SUPPLY SYSTEM NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE SYSTEM OR COMPONENT RPV DESCRIPTION: TOP & BTM HD NOZZLES

PAGE 009 DATE 10/22/90

DRAWING NO. RPV-102	DRAWING	NO.	RPV-102
---------------------	---------	-----	---------

EXAM. IDENINO. MIH.	EXAM. DATA SHEET NO.	EXAMINATION RESULTS NO INSIGNIF INDIC. G	SIGNIFICANT	REMARKS
CRD HOUSING 14-11 BLT VT-1	1RPV-124		REJ	4 ACCEP, 4 REJ FOR PITING CORR. REF. ERTR 1-014 FOR EVALUATION.
CRD HOUSING 34-11 BLT	1RPV-092	ACC		NO RECORDABLE INDICATIONS. PSI ON 8 NEW BOLTS INSTALLED AT R5
VT-1	1RPV-124		REJ	5 ACCEP, 3 REJ FOR PITTING CORR. REF. ERTR 1-014 FOR EVALUATION.
CRD HOUSING 18-03 BLT	1RPV-109	ACC		NO RECORDABLE INDICATIONS. PSI ON 8 NEW BOLTS INSTALLED AT R5
VT-1	1RPV-124		REJ	1 ACCEP. 7 REJ FOR PITTING CORR. REF. ERTR 1-014 FOR EVALUATION.
CRD HOUSING 26-03 BLT	1RPV-098	ACC		NO RECORDABLE INDICATIONS. PSI ON 8 NEW BOLTS INSTALLED AT R5
VT-1	1RPV-124		REJ	2 ACCEP, 6 REJ FOR PITTING CORR. REF. ERTR 1-014 FOR EVALUATION.
CRD HOUSING 34-03 BLT	1RPV-103	ACC		NO RECORDABLE INDICATIONS. PSI ON 8 NEW BOLTS INSTALLED AT R5
VT-1	1RPV-124		REJ	8 REJ FOR PITTING CORROSION. REF. ERTR 1-014 FOR EVALUATION.
	1RPV-108	ACC		NO RECORDABLE INDICATIONS. PSI ON 8 NEW BOLTS INSTALLED AT R5

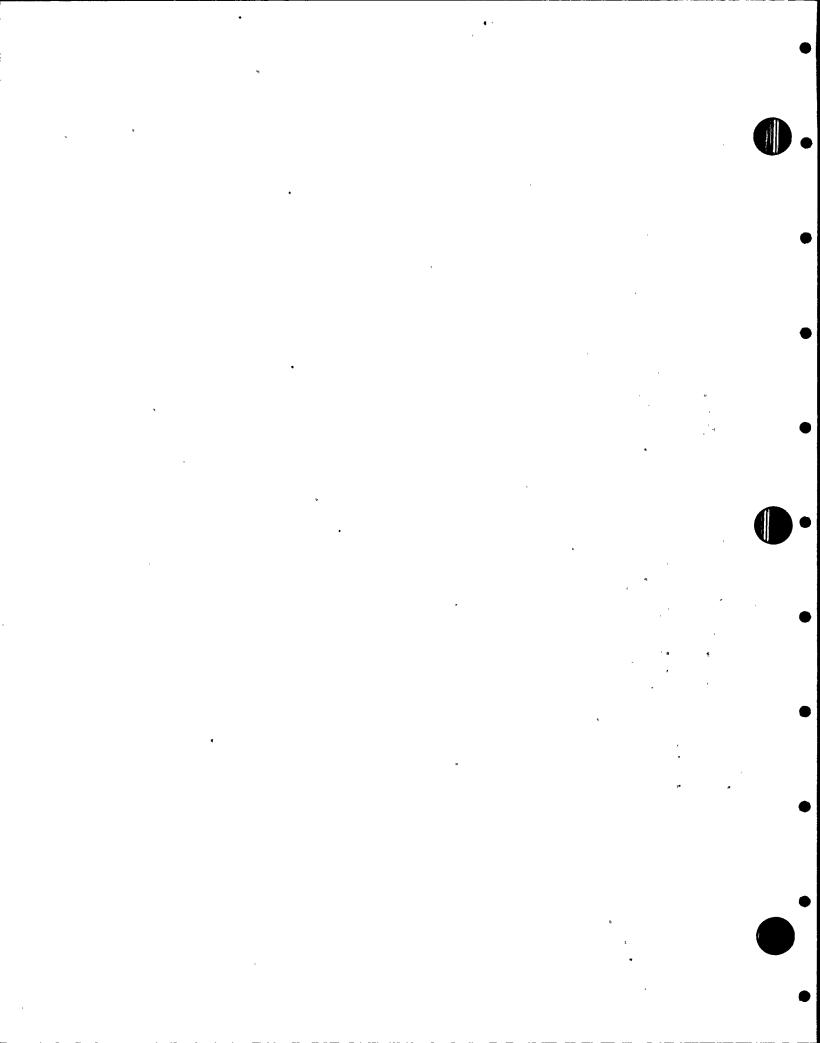


WASHINGTON PUBLIC WER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT RPV
DESCRIPTION: TOP & BTM HD NOZZLES

PAGE 010 DATE 10/22/90

DKAWI	NG	NO.	KPV-	102

		EXAM. DATA	EXAMINAT	LON_RESULTS			
IDENTNO. CRD HOUSING 42-	EXAM. MIH.	SHEET NO.	NO INDIC.	INSIGNIF INDIC.	SIGNIF GEOMETRY		REMARKS
	VT-1	1RPV-124				REJ	1 ACCEP, 7 REJ FOR PITTING CORR. REF. ERTR 1-014 FOR EVALUATION.
<b>DD DD</b>		1RPV-117	ACC				NO RECORDABLE INDICATIONS. PSI ON 8 NEW BOLTS INSTALLED AT R5.
RPV-PB-102(L)	V T-2	1VT2-90	ACC				NO RECORDABLE INDICATIONS.



UNP-02 INTERVAL: 01 PERIOD: 02 OUTAGE: R5 DRAWING NO. RCIC-101

IDENT .. NO.

RCIC-V-64-BLT

WASHINGTON PUBLIC THER SUPPLY SYSTEM . NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE SYSTEM OR COMPONENT RCIC(12)-4 DESCRIPTION: 2CIC STEAM SUPPLY

PAGE 001 DATE 10/22/90

EXAM
DATA

EXAM.

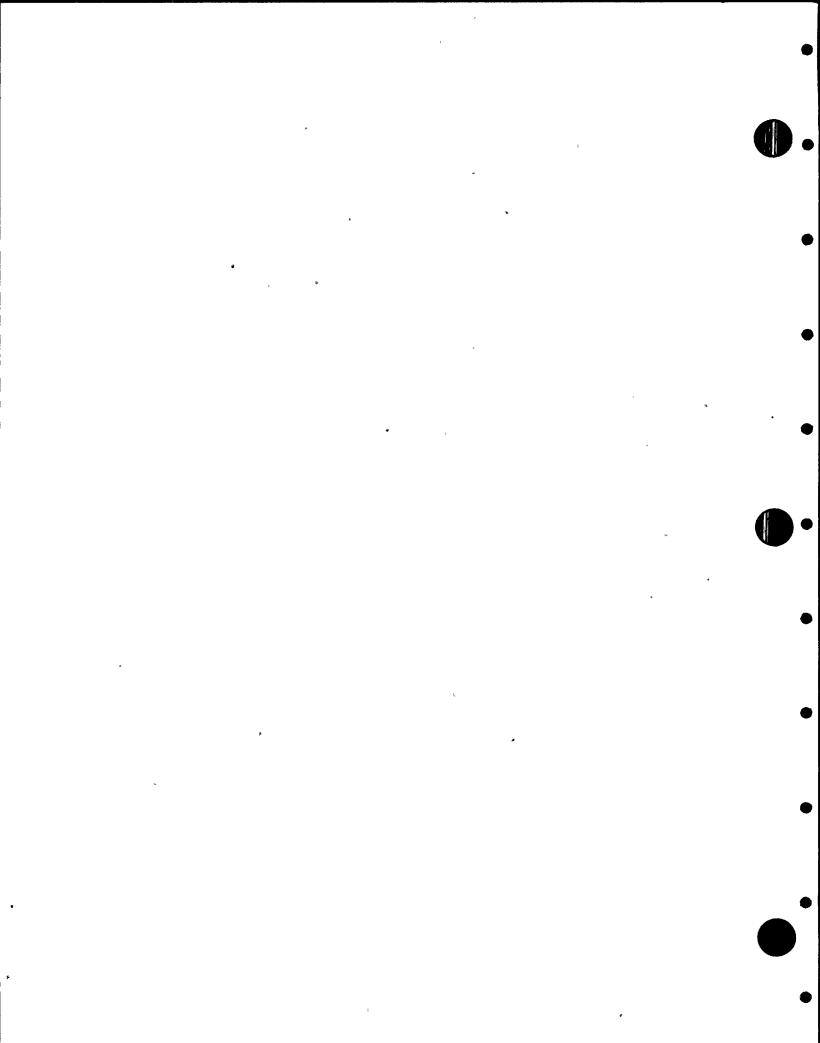
MTH.

SHEET

EXAMINATION RESULTS INSIGNIF SIGNIFICANT

INDIC. INDIC. GEOMETRY OTHER REMARKS NO.

V T-1 1RIV-007 VIS. EXAM WITH BOLTS IN PLACE. ACC



## WASHINGTON PUBLIC WER SUPPLY SYSTEM NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE SYSTEM OR COMPONENT RCIC(13)-4 DESCRIPTION: RCIC STEAM SUPPLY

PAGE 002 DATE 10/22/90

DRAWING NO. RCIC-101

<u>IDENTNO.</u> 4RCIC(13)-4	EXAM. MTH.	EXAM. DATA SHEET NO.	NO	ION RESULT INSIGNIF INDIC.	SIGNIFI	REMARKS
	VOL	1RIU-036		45		1 IND. AT 80% DAC; LIMITED DNST SCANS DUE TO 1" DRAIN LINE CONFIG.
4RCIC(13)-5	V OL	1R IU-037	,	45		1 IND. AT 100% DAC. LIMITED UPSTM SCAN EUE TO 1" DRAIN LINE CONFIG.
RCIC-72 4RCIC(13)-6	V ТЗН	1HV-0193	ACC			NO RECORDABLE INDICATIONS
4RCIC(13)-7	VOL	1RIU-038		45		ID GECMETRY NOTED AT 50-60% DAC.
RCIC-1C-16	V OL V T3 H	1RIU-039 1HV-0193	ACC	45		ID GEOMETRY NOTED AT 80% DAC.  NO RECORDABLE INDICATIONS
RCIC-1C-7 4RCIC(13)-8	V Т3Н	1HV-0193	ACC			NO RECORDABLE INDICATIONS
RCIC-68	V OL	1R IU-040		45		ID GECMETRY NOTED AT 80% DAC.
	V T3H	1HV-0192	ACC		·	COLD SETTING RECORDED WAS 340 LBS. VS. SPECIFIED 277 LBS. PSI SETTING IN 1984 WAS 325 LBS. AND EVAL. AS ACCEPT. PRESENT COLD SET WAS EVAL. AS ACCEPT. (ERTR 1-011).
RCIC-1C-8	V T3H	1HV-0193	ACC			NO RECORDABLE INDICATIONS
4RCIC(13)-9 4RCIC(13)-10	V OL	1RIU-041	•	45		ID GEOMETRY NOTED AT 80% DAC.
	V OL	1RIU-042		45		ID GECMETRY NOTED AT 60-70% DAC.

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R5
DRAWING NO. RCIC-101

WASHINGTON PUBLIC OWER SUPPLY SYSTEM NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE SYSTEM OR COMPONENT RCIC(13)-4
DESCRIPTION: RCIC STEAM SUPPLY

PAGE 003
DATE 10/22/90

		EXAM. Data	EXAMINAT	ION RESULT	<b>S</b>	
IDENTNO. 4RCIC(13)-11	EXAM. MIH.	SHEET NO.	NO INDIC.	INSIGNIF INDIC.	SIGNIF <u>GEOMETRY</u>	 REMARKS
48010(13)-11	V OL	1RIU-043	45			LIMITED DSTM AXIAL SCAN DUE TO CONFIG. OF WELDED LUGS.
RCIC-PB-101(L)	V T-2	1 V T 2 = 9 N	ACC			NO RECORDARIE INDICATIONS.

WASHINGTON PUBLIC WER SUPPLY SYSTEM NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE SYSTEM OR COMPONENT . RCIC(1)-4
DESCRIPTION: RPV HEAD SPRAY

PAGE 001 DATE 10/22/90

DRAWING NO. RCIC-102

		EXAM. DATA	FYAMINAT	ION RESULT	9			
	EXAM.	SHEET	NO	INSIGNIF	SIGNIF	ICANT		
IDENT NO.	MTH.	<u>NO-</u>	INDIC.	INDIC.	<u>GEOMETRY</u>	<u>OTHER</u>	REMARKS	
RCIC-127	V T3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS	
RCIC-936N RCIC-935N	v тзн	1HV-0193	ACC				NO RECORDABLE INDICATIONS	
RCIC-941N	V T3H	1HV-0193	ACC	ε			NO RECORDABLE INDICATIONS	
RCIC-934N	V T3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS	
RCIC-933N	V T3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS	
RCIC-932N	V T3H	1HV-0193	ACC			j	NO RECORDABLE INDICATIONS	
RCIC-128	V T3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS	
RCIC-129	V ТЗН	1HV-0193	ACC		٠		NO RECORDABLE INDICATIONS	
RCIC-PB-102(L)	V_T3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS	
	V T-2	1VT2-90	ACC				NO RECORDABLE INDICATIONS	

# WASHINGTON PUBLIC OWER SUPPLY SYSTEM NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE SYSTEM OR COMPONENT RCIC(1)-4 DESCRIPTION: RCIC PUMP DISCHARGE

PAGE 001 DATE 10/22/90

DRAWING	NO.	RCIC-205	
---------	-----	----------	--

DRAWING NO. RCIC	<u>2</u> 05	EXAM. Data	EXAMINAT	ION_RESULT	<u>s</u>		
IDENT NO.	EXAM. MTH.	SHEET NO.		INSIGNIF INDIC.		ICANT QIHER	REMARKS
RCIC-955N RCIC-954N	V T3H	- 1HV-0193	ACC				NO RECORDABLE INDICATIONS
6RCIC(1)-82	V T3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
	V OL	1RIU-031		45			1 IND. AT 65% DAC.
RCIC-22	SUR	1RIM-024	ACC			-	NO RECORDABLE INDICATIONS
RCIC-22 RCIC-952N	V T3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
	V T3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
RCIC-29	V T3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
6RCIC(1)-88	V OL	1RIU-035		45		ACC	ID GECMETRY NOTED AT 100% DAC. UNACCEPTABLE MT IND. OF 1RIM-027 ACCEPTED BY VOL. UT EXAM OF AREA, AS PERMITTED BY IWB-3514.2(b). REF. ERTR 1-009.
	SUR	1RIM-027				ACC	UNACCEPTABLE 1.6" LINEAR MT IND. WAS ACCEPTED BY VOL. UT EXAM OF IND. AREA, AS PERMITTED BY IWB-3514.2(b). REF. 1RIU-035 AND ERTR NO. 1-009.
RCIC-86	V <b>T</b> 3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS

### WASHINGTON PUBLIC WER SUPPLY SYSTEM NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE SYSTEM OR COMPONENT RCIC(1)-4 DESCRIPTION: RCIC PUMP DISCHARGE

PAGE 002 DATE 10/22/90

DRAWING NO. RCIC-205

	<u>IDENTNO.</u> 6RCIC(1)-99	EXAM.	EXAM. DATA SHEET NO.	NO	ION_RESULTS INSIGNIF INDIC•	SIGNIF	ICANT OIHER	REMARKS
	ancictive	VOL	1RIU-034	45			·	UNACCEPABLE MT IND. OF 1RIM-026 WAS ACCEPTED BY VOLUMETRIC UT EXAM OF INC. AREA, AS PERMITTED BY IWB-3514.2(b). REF. ERTR 1-008.
		SUR	1RIM-026		·		ACC	UNACCEPTABLE 1.85" LINEAR MT IND. WAS ACCEPTED BY VOL. UT EXAM OF INDICATION AREA, AS PERMITTED BY IWB-3514.2(b). REF. 1RIU-034 AND ERTR NO. 1-008.
	RC1C-88	V T3H	1HV-0193	ACC	•			NO RECORDABLE INDICATIONS
	RCIC-90	V T3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
	RCIC-91 RCIC-93	v тзн	1HV-0193	ACC		•	•	NO RECORDABLE INDICATIONS
	RCIC-95	V T3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
	6RCIC(1)-105	V T3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS .
	BKC1C(1)-105	VOL	1RIU-033		45			ID GECMETRY NOTED AT 100% DAC.
	RC1C-97	SUR	1RIM-025	ACC		•		NO RECORDABLE INDICATIONS
	RCIC-98	V T3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
	NC10-70	V <b>T</b> 3H	1HV-0193	ACC	-			NO RECORDABLE INDICATIONS

**,** 

WASHINGTON PUBLIC - WER SUPPLY SYSTEM NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE SYSTEM OR COMPONENT RCIC(1)-4
DESCRIPTION: RCIC PUMP DISCHARGE

PAGE 003 DATE 10/22/90

DRAWING NO. RCIC-205

<u>I DE NT • • NO •                                     </u>	EXAM.	EXAM. DATA SHEET NO.	EXAMINATION RESULT NO INSIGNIF INDIC. INDIC.	SIGNIFICANT GEOMETRY OTHER	REMARKS
RCIC-100	V T3H	1HV-0193	ACC -		NO RECORDABLE INDICATIONS
	v T3H	1HV-0193	ACC	•	NO RECORDABLE INDICATIONS
6RCIC(22)-10	VOL	1RIU-032	45	•	LIMITED DNST AXIAL SCANS DUE TO TEE CONFIGURATION.
	SUR	1RIM-023	ACC		NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R5
DRAWING NO. HPCS-101

WASHINGTON PUBLIC - WER SUPPLY SYSTEM NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE SYSTEM OR COMPONENT HPCS(1)-4
DESCRIPTION: HIGH PRES CORE SPRAY

PAGE 001 DATE 10/22/90

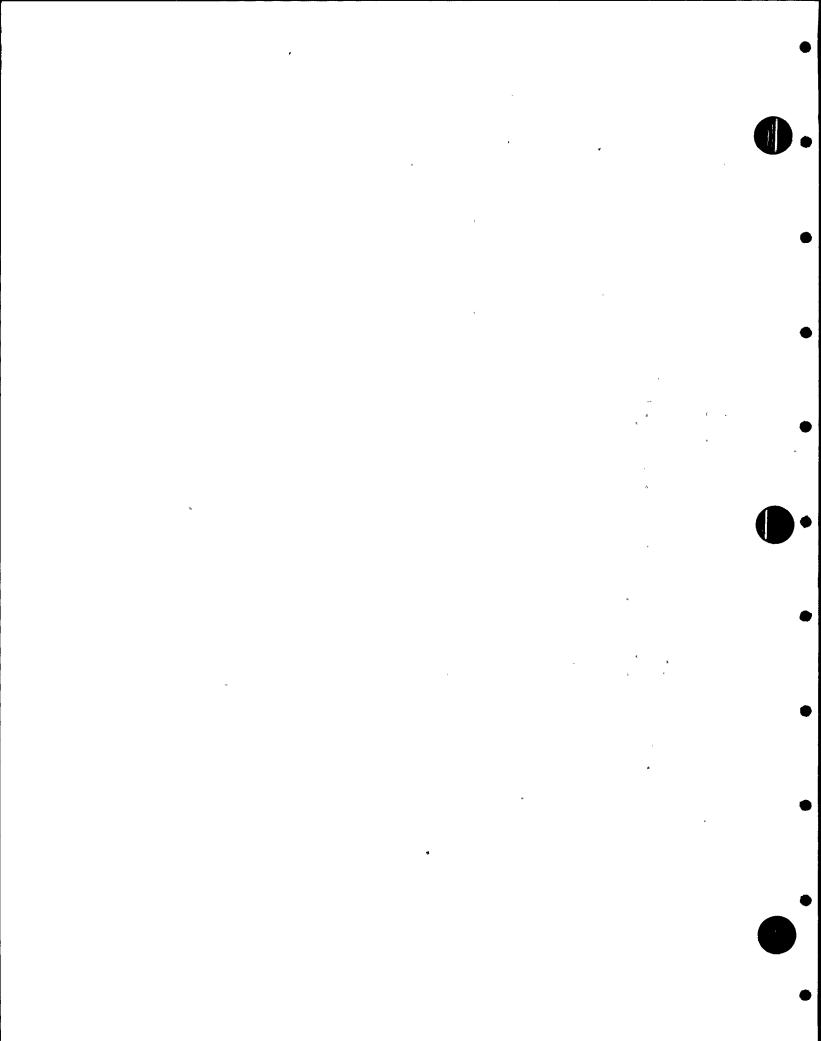
		EXAM. DATA	EXAMINAI	ION RESULT	<u>s</u>		
<u>IDENTNO.</u> HPCS-P8-101(L)	EXAM. MTH.	SHEET No	NO	INSIGNIF	SIGNIF GEOMETRY	FICANT	-
111 00 10-101([)	V T-2	1772-90	۸۲۲				NO RECORDARIE INDICATIONS.

## WASHINGTON PUBLIC THER SUPPLY SYSTEM NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE SYSTEM OR COMPONENT HPCS(1)-4 DESCRIPTION: HPCS-P-1 DISCHARGE

PAGE 001 DATE 10/22/90

DRAWING NO. HPCS-202

IDENT •• NO• HPCS-1	EXAM. MTH.	EXAM. DATA SHEET NO	NO	ION RESULT INSIGNIF INDIC.	~~~~~~	FICANT OTHER	REMARKS
16HPCS(1)-7	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
·	VOL	1HPU-011		46		ACC	COUNTERBORE AND UNACCEPTABLE MT AREA OF 1HPM-005 SEEN. UNACCEP MT IND. ACCEPTED BY VOL. UT EXAM OF IND. AREA, AS PERMITTED BY IWB-3514.2(b). REF. ERTR 1-006.
	SUR	1HPM-005				ACC	UNACCEPTABLE 1.7" LINEAR MT IND. WAS ACCEPTED BY VOL. UT EXAM OF MT INDICATION AREA, AS PERMITTED BY IWB-3514.2(b). REF. 1HPU-011 AND ERTR NO. 1-006.
HPCS-23	V T3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
HPCS-21	v 131.						NO RECORDABLE INDICATIONS
HPCS-20		1HV-0193	ACC				
HPCS-903N	V T3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
HPCS-24	V ТЗН	1HV-0193	ACC				NO RECORDABLE INDICATIONS
HPCS-25	V T3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
	V T3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
HPCS-26	v тзн	1HV-0193	ACC				NO RECORDABLE INDICATIONS
16HPCS(1)-27	V OL	1HPU-012		45			ID GECMETRY NOTED AT 65% DAC.

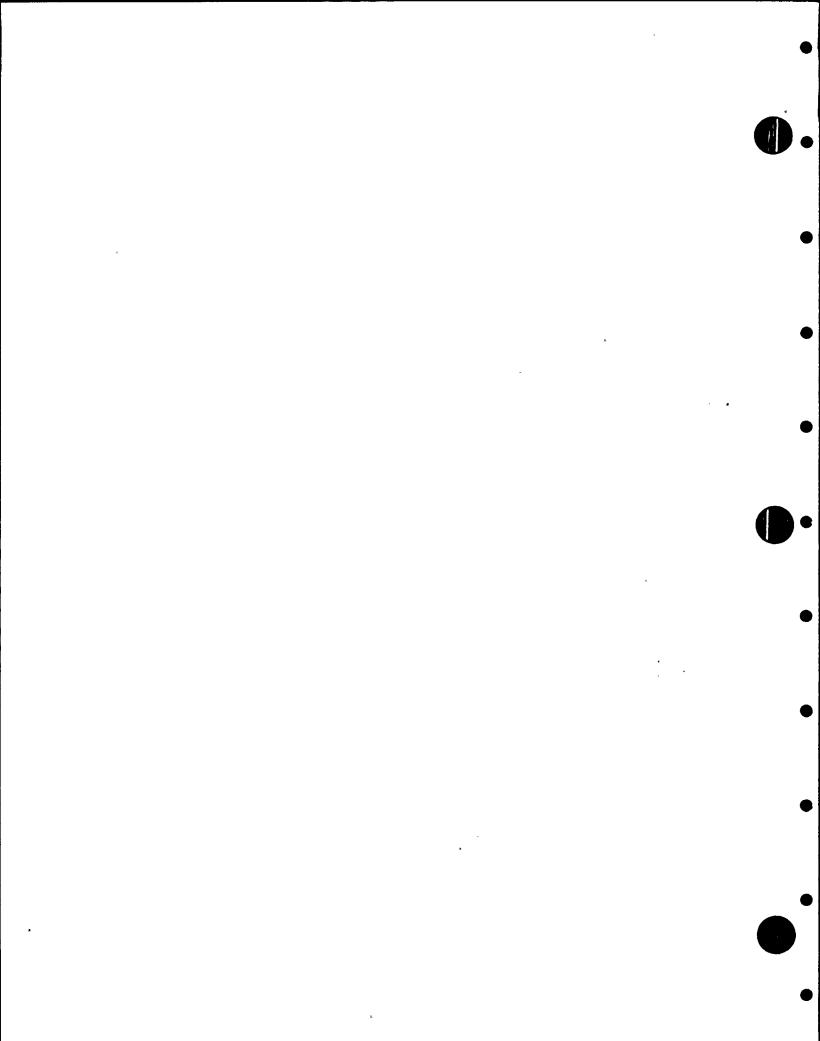


INTERVAL: 01
PERIOD: 2
OUTAGE: R5
DRAWING NO. HPCS-202

WASHINGTON PUBLIC WER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT HPCS(1)-4
DESCRIPTION: HPCS-P-1 DISCHARGE

PAGE 002 DATE 10/22/90

IDENTNO.	EXAM.	EXAM. DATA SHEET NO.	EXAMINATION RESULTION OF INSIGNIF	SIGNIFICANT GEOMETRY OIHER	REMARKS
UD00 07	SUR	1HPM-006	ACC		NO RECORDABLE INDICATIONS
HPCS-27	V T3H	1HV-0193	ACC		NO RECORDABLE INDICATIONS
HPCS-28	v <b>T</b> 3H	1HV-0193	ACC		NO RECORDABLE INDICATIONS
HPCS-917N	VТЗН	1HV-0193	ACC		NO RECORDABLE INDICATIONS
HPCS-915N	v	1HV-0193	ACC		NO RECORDABLE INDICATIONS
HPCS-909N	V T3H	1HV-0193	ACC		NO RECORDABLE INDICATIONS

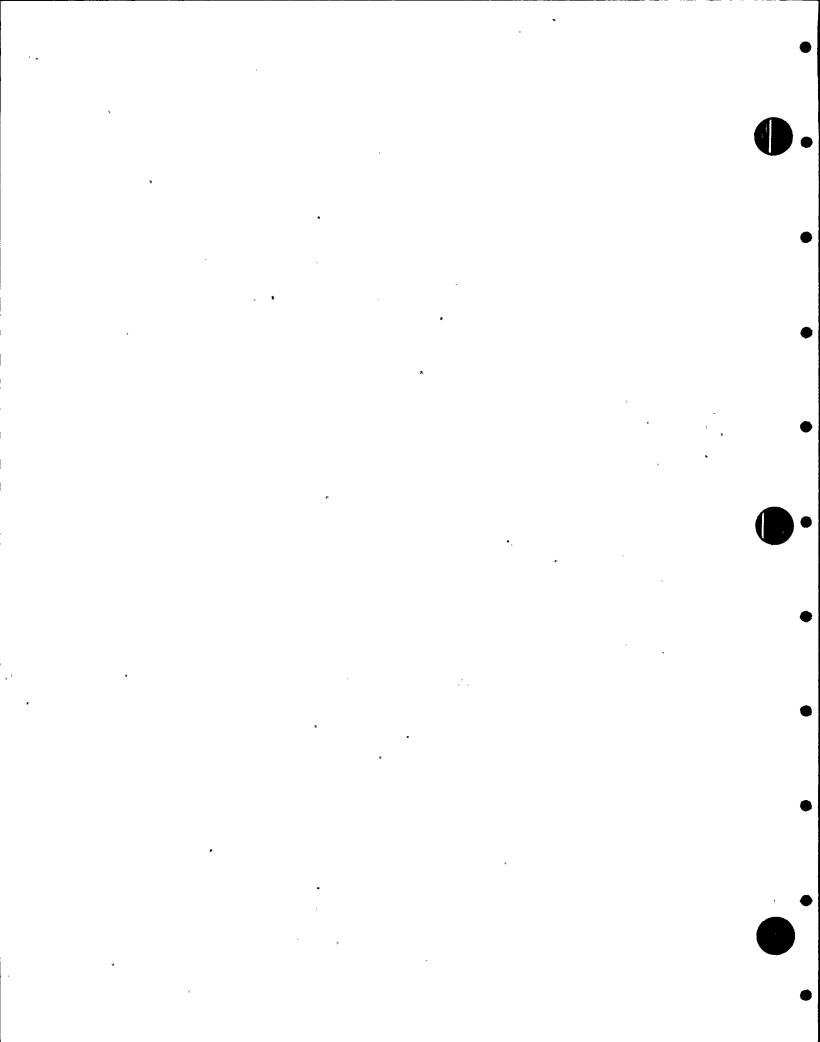


WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R5
DRAWING NO. LPCS-101

## WASHINGTON PUBLIC WER SUPPLY SYSTEM NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE SYSTEM OR COMPONENT LPCS(1)-4 DESCRIPTION: LOW PRES CORE SPRAY

PAGE 001 DATE 10/22/90

	•		EXAM. Data	EXAMINAT	ION_RESULT	s	
_	IDENTNO. LPCS-V-6-BDY	EXAM. MTH.		NO TUDIC*	INSIGNIF INDIC.	SIGNIFICANT GEOMEIRY OTHER	REMARKS
	E. 65 V 5 DD.	V T-3	1LPV-004		ACC		LIGHT CORROSION ON BONNET.  NO APPARENT MATERIAL LOSS. BLACK COATING ON VALVE INTERNALS.
	LPCS-PB-101(L)	VT-2	1VT2-90	ACC			NO RECORDABLE INDICATIONS.



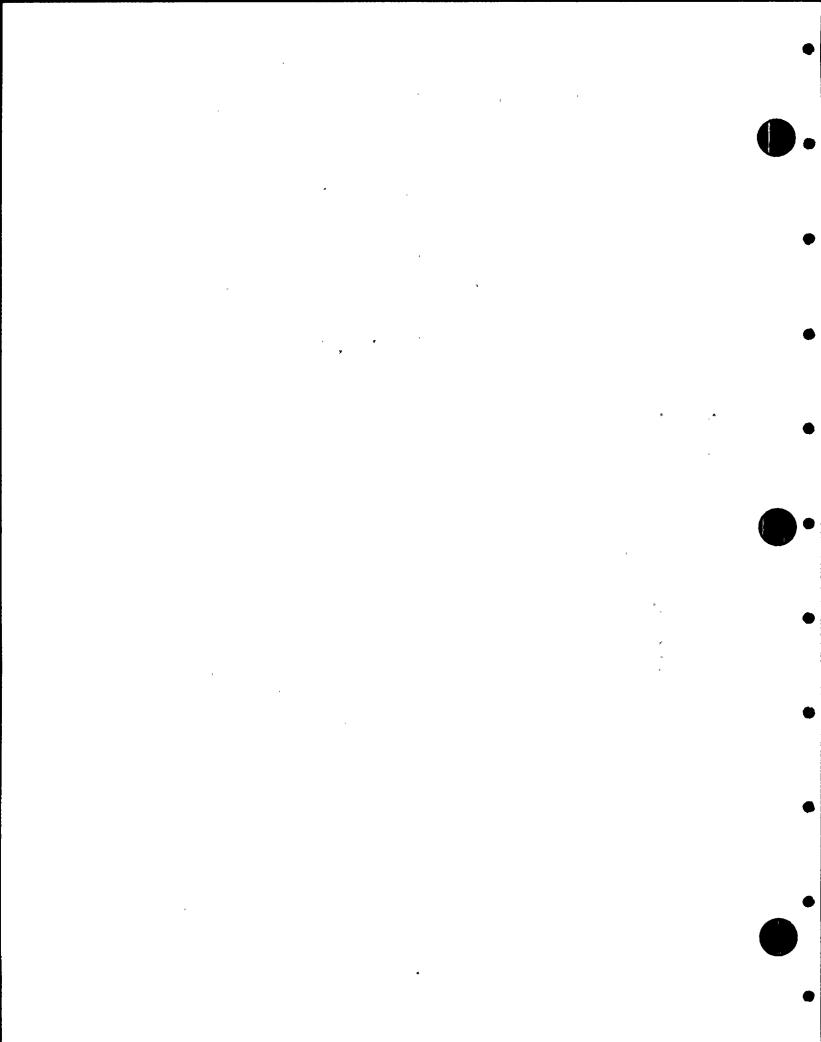
#### WASHINGTON PUBLIC OVER SUPPLY SYSTEM -NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE SYSTEM OR COMPONENT LPCS(1)-2 DESCRIPTION: LPCS-P-1 DISCHARGE

PAGE 001 DATE 10/22/90

DRAWING NO. LPCS-202

CVAM

	CANA	EXAM. DATA	EXAMINAT:	ION RESULTS			
IDENTNO. 16LPCS(1)-2/6LP	EXAM. MIH.	SHEET NO		INSIGNIF INDIC.	SIGNIF GEOMETRY		REMARKS
	VOL	1LPM-020	45			ACC	UNACCEP 1.75" LINEAR MT IND. OF 1LPM-011 WAS ACCEPTED BY VOL. UT EXAM OF MT INDICATION AREA, AS PERMITTED BY IWB-3514.2(b). REF. 1LPU20 AND ERTR NO. 1-007.
	SUR	1LPM-011				ACC	UNACCEP 1.75" LINEAR MT IND. OF 1LPM-011 WAS ACCEPTED BY VOL. UT EXAM OF MT INDICATION AREA, AS PERMITTED BY IWB-3514.2(b). REF. 1LPU-020 AND ERTR NO. 1-007.
LPCS-38	V ТЗН	1HV-0193	ACC				NO RECORDABLE INDICATIONS
LPCS-39	V T3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
16LPCS(1)-8	V OL	1LPU-021	45				NO RECORDABLE INDICATIONS
LDCC 11	SUR	1LPM-013		ACC			NO RECORDABLE INDICATIONS
LPCS-11 LPCS-12	V T3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
LPCS-14	V T3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
	V T3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
LPCS-17	V T3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS



### WASHINGTON PUBLIC HER SUPPLY SYSTEM NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE SYSTEM OR COMPONENT LPCS(3)-2 DESCRIPTION: LPCS-P-1 DISCHARGE

PAGE 002 DATE 10/22/90

DRAWING	NO.	LPCS-202
---------	-----	----------

<u>IDENTNO.</u> 12LPCS(3)-5	EXAM.	EXAM. DATA SHEET NQ	NO	ION RESULT INSIGNIF INDIC.	S SIGNIFICANT GEOMEIRY OIHER	REMARKS
12[[(3(3)-3	V OL	1LPU-022	45			LIMITED SCANS ON VALVE SIDE DUE TO CONFIGURATION.
12LPCS(3)-6	SUR	1LPM-012	ACC			NO RECORDABLE INDICATIONS
121703137-8	V OL	1LPU-022	45			LIMITED SCANS ON VALVES SIDE DUE TO CONFIGURATION.
16LPCS(1)-23	SUR	1LPM-012	ACC			NO RECORDABLE INDICATIONS
	V OL	1LPU-023		45	ACC	ONE IND. AT 12%DAC. TWO UNACCEPT. LINEAR MT IND. AREAS OF 1LPM-014 WERE ACCEPTED BY VOL. UT EXAM, AS PERMITTED BY IWB-3514.2(b). REF. ERTR 1-012.
	SUR	1LPM-014			ACC	UNACCEPTABLE LIN. MT INDICATIONS OF 1LPM-014 ACCEPTED BY VOLUMETRIC UT EXAM OF MT IND. AREA (1LPU-023) AS PERMITTED BY IWB-3514.2(b). REF. ERTR 1-012.
LPCS-20	V Т3 Н	1HV-0193	ACC			NO RECORDABLE INDICATIONS
LPCS-41	V T3H	1HV-0193	ACC			NO RECORDABLE INDICATIONS

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R5
DRAWING NO. LPCS-202

VT3H

1HV-0193 ACC

### WASHINGTON PUBLIC OWER SUPPLY SYSTEM NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE SYSTEM OR COMPONENT LPCS(1)-2 DESCRIPTION: LPCS-P-1 DISCHARGE

PAGE 003 DATE 10/22/90

NO RECORDABLE INDICATIONS

		EXAM. DATA	EXAMINAT	ION RESULT	`S		
IDENT NO.	EXAM.	SHEET NO.	NO INDIC.	INSIGNIF	SIGNIF <u>GEOMETRY</u>		REMARKS
16LPCS(1)-27	V OL	1LPU-025		45		ACC	ID GECMETRY NOTED AT 70-80% DAC. UNACCEPT. LIN. MT IND. OF 1LPM-015 ACCEPTED BY VOL. UT EXAM OF MT INDICATION AREA. AS PERMITTED BY IWB-3514.2(b). REF. ERTR 1-013.
,	SUR	1LPM-015				ACC.	UNACCEPTABLE LINEAR MT INDICATION WAS ACCEPTED BY VOLUMETRIC UT EXAM OF MT AREA, AS PERMITTED BY IWF-3514.2(b). REF. 1LPU-025 AND ERTR 1-013.
LPCS-42	V T 3 H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
LPCS-22							NO RECORDABLE INDICATIONS
LPCS-23	VT3H	1HV-0193	ACC				
LPCS-24	V T3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
	V T3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
LPCS-25 LPCS-903N	итзн	1HV-0193	ACC				NO RECORDABLE INDICATIONS

WNP-02 INTERVAL: 01 PERIOD: 2 OUTAGE: R5 DRAWING NO. RHR-101

WASHINGTON PUBLIC WER SUPPLY SYSTEM NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE SYSTEM OR COMPONENT RHR (1)-4

PAGE 001 DATE- 10/22/90

DESCRIPTION: RHR/LPCI LOOP "A"

		EXAM. DATA	EXAMINAT	ION_RESULT	S			
IDENT NO.	EXAM. HIH.	SHEET NO	NO INDIC.	INSIGNIF INDIC.	SIGNIF GEOMETRY	IFICANT Y <u>OIHER REMARKS</u>	REMARKS	
RHR-PB-101(L)	VT-2	1VT2-90	ACC				NO RECORDABLE INDIC	CATIONS.

• I a 4 g

WASHINGTON PUBLIC THE SUPPLY SYSTEM NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE SYSTEM OR COMPONENT RHR(1)-4
DESCRIPTION: RHR/LPCI LOOP "B"

PAGE 001 DATE 10/22/90

DRAWING NO. RHR-102

EXAM.

		DATA	EXAMINAT	ION_RESULT	S	-
IDENTNO.	EXAM. MTH.	SHEET No.	NO	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY OTHER	REMARKS
 RHR-PB-102(L)	V T-2	1VT2-90	ACC		arts and after the state state and after a second and a second a second and a second a second and a second and a second and a second and a second an	NO RECORDABLE INDICATIONS.
	V 1-2	1412-20	ACC			MO VECOMPAPEE INDICATIONS:

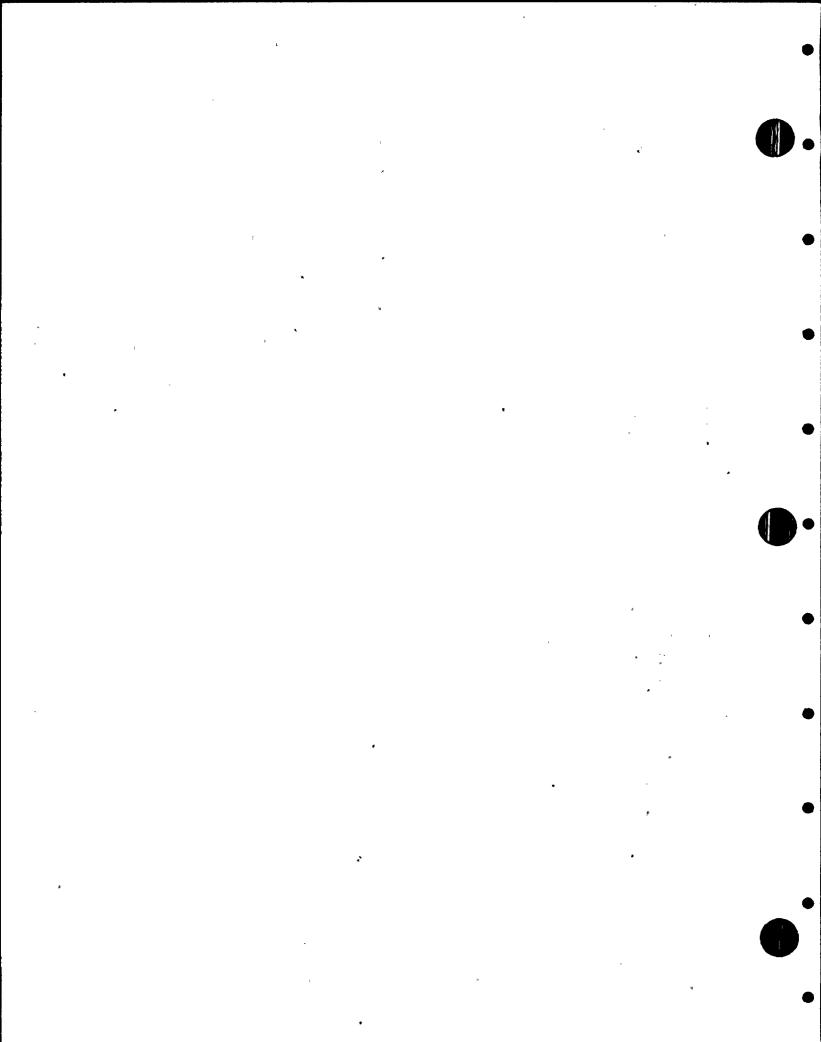
DRAWING NO. RHR-103

WASHINGTON PUBLIC WER SUPPLY SYSTEM NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE SYSTEM OR COMPONENT RHR (1)-4

PAGE 001 DATE 10/22/90

DESCRIPTION: RHR SHUTON COOL SUCT

	EXAM.	DATA SHEET NO.	EXAMINATION RESULTS					r
IDENTNO. RHR-PB-103(L)			NO INDIC.	INSIGNIF INDIC.	SIGNIF <u>GEOMETRY</u>	OTHER	REMARKS	
	VT-2	1VT2-90	ACC				NO RECORDABLE	E INDICATIONS.

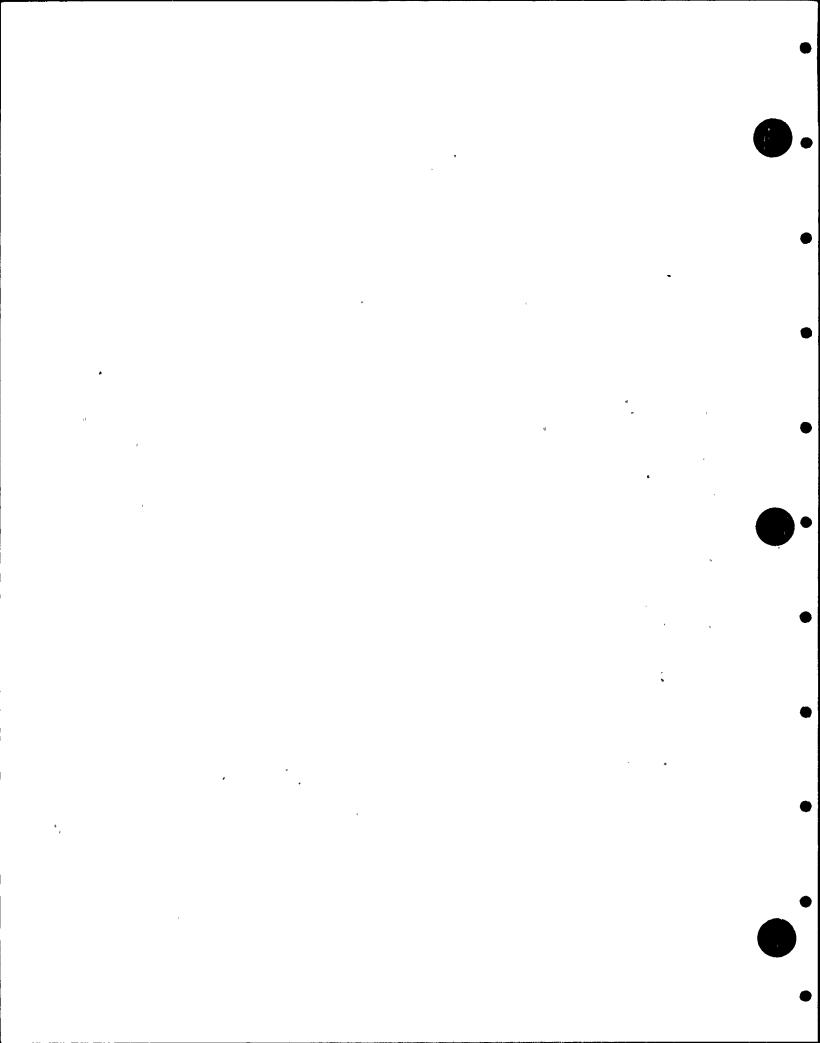


WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R5
DRAWING NO. RHR-104

WASHINGTON PUBLIC WER SUPPLY SYSTEM NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE SYSTEM OR COMPONENT RHR(2)-4
DESCRIPTION: RHR SHUTDN COOL SUCT

PAGE 001 DATE 10/22/90

	EXAM.	DATA SHEET	EXAMINAT	ION_RESULT	'S	
<u>IDENTNO.</u> RHR-PB-104(L)			NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY OTHER	REMARKS
	W.T. 0		•	,		NO OFFICE TARREST TARREST
	V T-2	1VT2-90	ACC			NO RECORDABLE INDICATIONS.



IDENT .. NO.

RHR-PB-105(L)

WASHINGTON PUBLIC OWER SUPPLY SYSTEM NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE SYSTEM OR COMPONENT RHR (1)-4S DESCRIPTION: SHUTDN COOL RET LP-A

PAGE 001 DATE 10/22/90

DRAWING NO. RHR-105

EX AM. DATA

SHEET

EXAM.

**EXAMINATION RESULTS** 

SIGNIFICANT

INSIGNIF INDIC. INDIC. GEOMETRY OTHER REMARKS

MIH. NO.\_\_\_\_

V T-2 1VT2-90 NO RECORDABLE INDICATIONS. ACC

WASHINGTON PUBLICATION SUPPLY SYSTEM NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE SYSTEM OR COMPONENT RHR(1)-4S\_DESCRIPTION: SHUTDN COOL RET LP-B

PAGE 001 DATE 10/22/90

EXAM.

EXAM.

MTH.

DATA <u>EXAMINATION RESULTS</u>
SHEET NO INSIGNIF

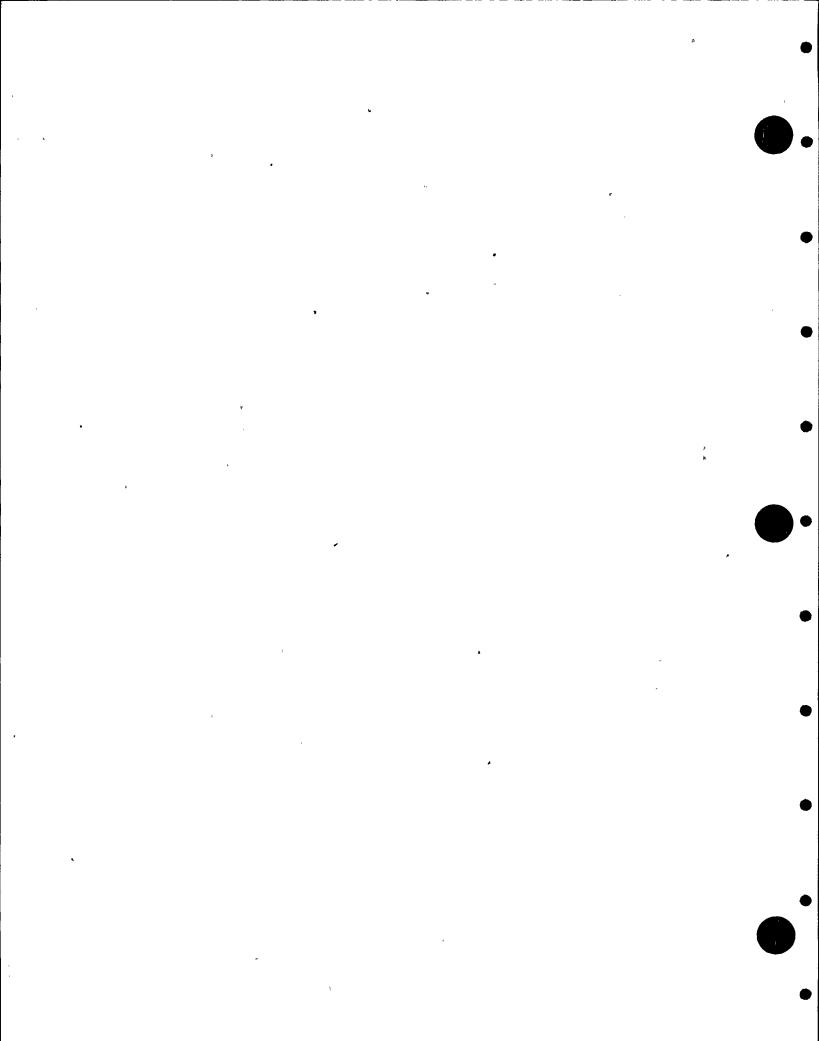
NO INSIGNIF SIGNIFICANT

NO. INDIC. INDIC. GEOMETRY OTHER REMARKS

IDENT..NO. RHR-PB-106(L)

VT-2 1VT2-90 ACC

NO RECORDABLE INDICATIONS.



# WASHINGTON PUBLIC OWER SUPPLY SYSTEM NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE SYSTEM OR COMPONENT RHR(1)-2 DESCRIPTION: STH SPLY TO RHR HX1A

PAGE 001 DATE 10/22/90

<u>IDENTNO.</u> RHR-601	EXAM.	EXAM. DATA SHEET NO.	EXAMINATION RESULT NO INSIGNIF INDIC. INDIC.	SIGNIFICANT	REMARKS
RHR-600	V T3H	1HV-0193	ACC		NO RECORDABLE INDICATIONS
RHR-598	V ТЗН	1HV-0193	ACC .		NO RECORDABLE INDICATIONS
20RHR(1)A-2	VT3H	1HV-0193	ACC		NO RECORDABLE INDICATIONS
2011111174-2	V OL	1RHU-081	45		NO DNST AXIAL SCAN DUE TO NOZZLE CONFIGURATION.
10000/1118	SUR	1RHM-038	ACC		NO RECORDABLE INDICATIONS
18RHR (11)A-1	V OL	1RHU-077	45		NO RECORDABLE INDICATIONS
1004071118 17	SUR	1RHM-035	ACC		NO RECORDABLE INDICATIONS
18RHR (11) A-14	V OL	1RHU-078	45		NO RECORDABLE INDICATIONS
000004134	SUR	1RHM-035	ACC		NO RECORDABLE INDICATIONS
20RHR (1) A-6	V OL	1RHU-076	45		NO RECORDABLE INDICATIONS
	SUR	1RHM-036	ACC		NO RECORDABLE INDICATIONS
18RHR (1) A-47	V OL	1RHU-080	45	ACC	NO DNST AXIAL SCAN DUE TO CONFIG. OF TEE. UNACCEPTABLE LINEAR MT INDICATION OF 1RHM-034 WAS ACCEPTD BY VOLUMETRIC UT EXAM OF IND. AREA AS PERMITTED BY IWB-3514.2(b). REF. ERTR 1-010.

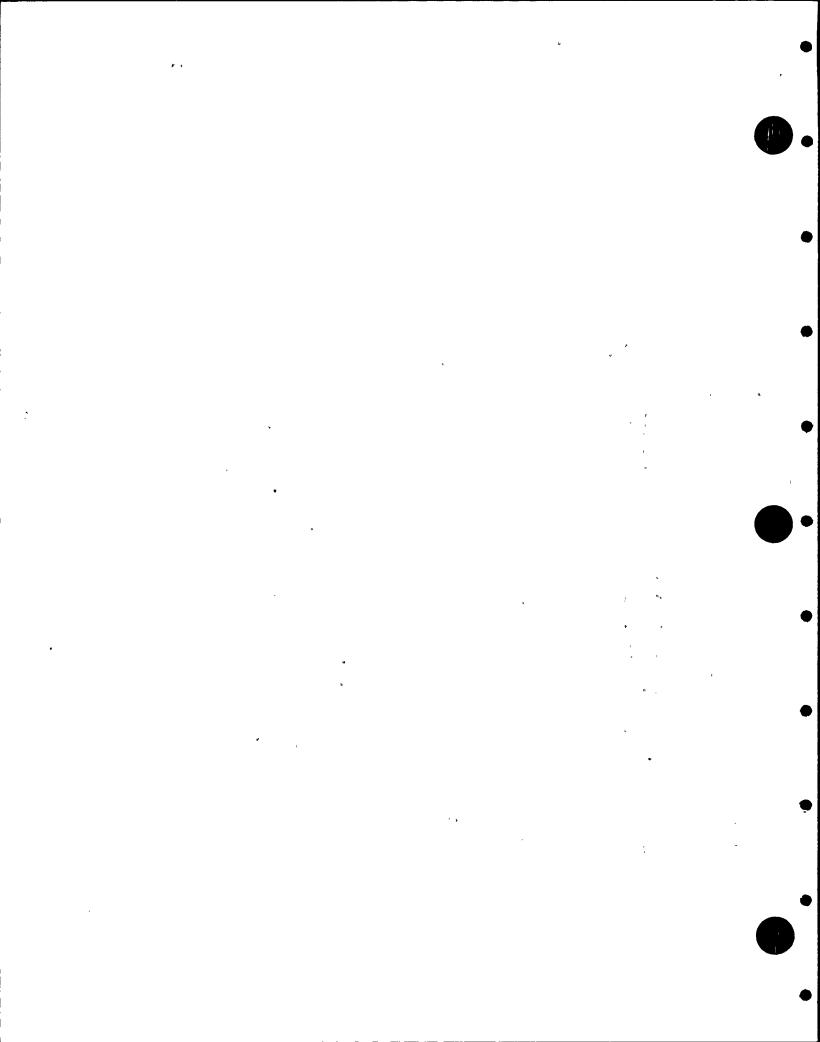
WASHINGTON PUBLIC WER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT RHR (1)-2
DESCRIPTION: SIM SPLY TO RHR HX1A

PAGE 002 DATE 10/22/90

OF MT INDICATION AREA (1RHU-080), AS PERMITTED BY INB-3514.2(b).

REF. ERTR 1-010.

IDENTNO.	EXAM.	EXAM. DATA SHEET NO	EXAMINATION_RESULTS NO INSIGNIF INDIC INDIC	FICANT	REMARKS	
	SUR	1RHM-034			ACC	UNACCEPTABLE LINEAR MT INDICATION AREA ACCEPTED BY VOL. UT EXAM



WASHINGTON PUBLIC WER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT RHR(1)-2
DESCRIPTION: STM SPLY(TO RHR HX1A

PAGE 003 DATE 10/22/90

		EXAM. DATA	EXAMINAT	ION_RESULT	S	
IDENTNO.	EXAM. MTH.		INSIGNIF INDIC.	SIGNIFICANT GEOMETRY OTHER	REMARKS	
18RHR (1) A-54	VOL	1RHU-079	45			NO DNST AXIAL SCAN DUE TO CONFIG. OF TEE.

WASHINGTON PUBLIC WER SUPPLY SYSTEM NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE SYSTEM OR COMPONENT RHR(1)-2
DESCRIPTION: SIM SPLY TO RHR HX1A

PAGE 004 DATE 10/22/90

DRAWING NO. RHR-201

<u>IDENTNO.</u> 18RHR(1)A-54	EXAM. MTH.	EXAM. DATA SHEET NO.	NO	ION_RESULT INSIGNIF INDIC.	SIGNIFICANT	. REMARKS
RHR-237	SUR	1RHM-037	ACC		•	NO RECORDABLE INDICATIONS
RHR-234	V ТЗН	1HV-0193	ACC			NO RECORDABLE INDICATIONS
RHR-1004N	VT3H	1HV-0193	ACC .			NO RECORDABLE INDICATIONS
RHR-235	V T3H	1HV-0193	ACC		,	NO RECORDABLE INDICATIONS
RHR-350	V T3H	1HV-0193	ACC			NO RECORDABLE INDICATIONS
RHR-965N	V T3H	1HV-0193	ACC			NO RECORDABLE INDICATIONS
RHR-1019N	V T3H	1HV-0193	ACC			NO RECORDABLE INDICATIONS
RHR-240	VT3H	1HV-0193	ACC			NO RECORDABLE INDICATIONS
14RHR(1)A-13	V T3H	1HV-0193	-	ACC "		HEAVY RUST LAYER ON 90% OF WELDS.
	V OL	1RHU-082		46		ID GEOMETRY NOTED AT 55-85% DAC.
RHR-964N	SUR	1RHM-039	ACC			NO RECORDABLE INDICATIONS
	V T3H	1HV-0193		ACC		ONE NUT ON BASE PLATE BOLTING HAS

. ~ , • . ¥ • • 4

DRAWING NO. MS-101

1VT2-90

VT-2

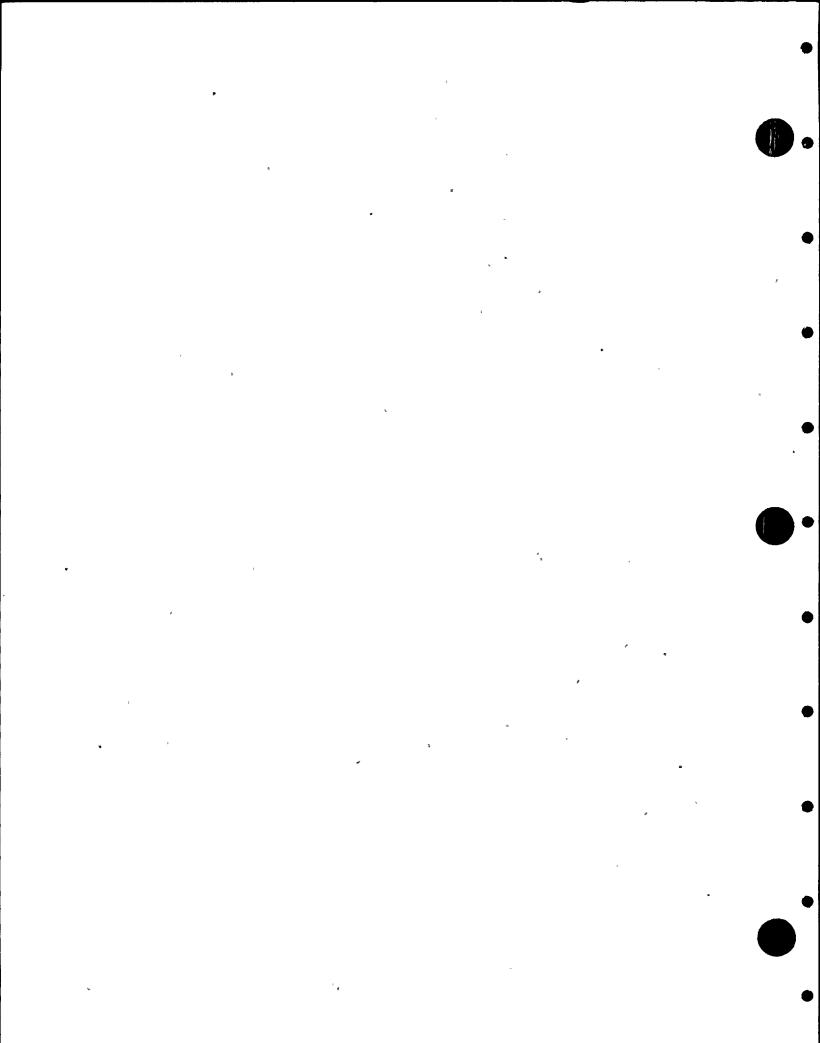
ACC

### WASHINGTON PUBLIC - WER SUPPLY SYSTEM NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE SYSTEM OR COMPONENT MS(1)-4 DESCRIPTION: MAIN STEAM LINE A

PAGE 001 DATE 10/22/90

NO RECORDABLE INDICATIONS

TOENT NO	EXAM.	EXAM. DATA SHEET	NO	ION_RESULTS INSIGNIF	SIGNIF		DEWARKS *
IDENTNO. MS-SA-7	MIH.	NO	INDIC.	INDIC.	GEOMETRY	סדערע	REMARKS
MS-SA-4	V T3H	1HV-0208	ACC				SNUBBER REPLACED WITH STRUT AT R5. SECT. XI PLAN 2-0552. PSI OF NEW STRUT.
MS-SA-1	V T3H	1HV-0207	ACC				SNUBBER REPLACED WITH STRUT AT R5. SECT. XI PLAN 2-0552). PSI OF NEW STRUT.
	V T3H	1HV-0205	ACC				SNUBBER REPLACED WITH STRUT AT R5. SECT. XI PLAN 2-0552. PSI FOR NEW STRUT.
MS-SA-2	V T3H	1HV-0206	ACC				SNUBBER REPLACED WITH STRUT AT R5. SECT. XI PLAN 2-0552. PSI OF NEW STRUT.
MS-PB-101(L)					•		



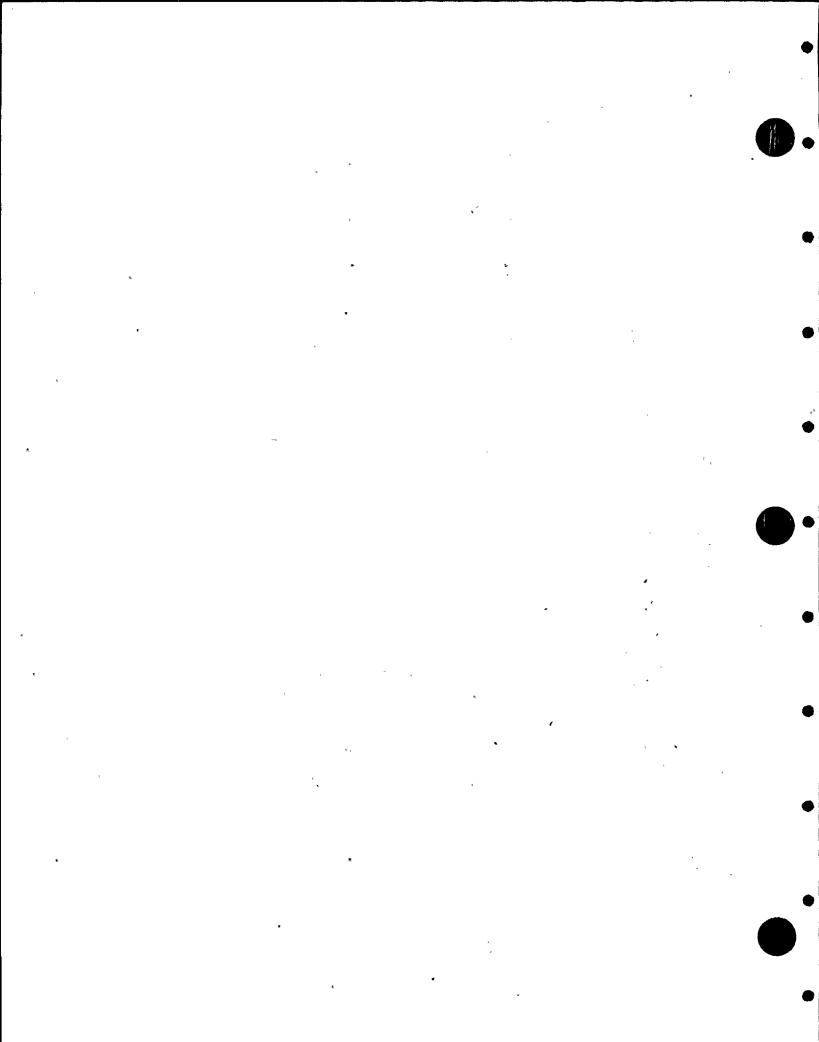
WASHINGTON PUBLIC OWER SUPPLY SYSTEM NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE SYSTEM OR COMPONENT MS(1)-4
DESCRIPTION: MAIN STEAM LINE B

PAGE 001 DATE 10/22/90

DRAWING NO. MS-102

CV AL

<u>IDENTNO.</u> MS-V-22B-BDY	EXAM. MTH.	DATA SHEET NO.	EXAMINAT NO INDIC.	ION RESULT INSIGNIF INDIC.	 FICANT OTHER	REMARKS
MS-V-28B-8DY	V T-3	1MSV-097	ACC			PSI OF INTERNAL MACHINED SURFACES. LIGHT SCRATCHES AND PITTING NOTED ON PARTS OF BORE SURFACE. LIMITED ISI DUE TO ACCESSIBILITY. SECT. XI REPAIR PLAN 2-0554.
	VT-3	1MSV-095	ACC			NO RECORDABLE INDICATIONS. PSI OF MACHINED INTERNAL BORE. LIMITED ISI EXAM DUE ACCESSIBILITY SECT. XI REPAIR PLAN 2-0556.
MS-PB-102(L)	V T-2	1VT2-90	ACC			NO RECORDABLE INDICATIONS.



DRAWING NO. MS-103

VT3H

1HV-0193 ACC

WASHINGTON PUBLIC JUER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT MS(1)-4
DESCRIPTION: MAIN STEAM LINE C

PAGE 001 DATE 10/22/90

NO RECORDABLE INDICATIONS

IDENT NO.	EXAM. MIH.	EXAM. DATA SHEET NO.	EXAMINATION RESULT NO INSIGNIF INDIC. INDIC.	SIGNIFICANT	REMARKS
26MS(1)C-3 -	V OL	1MSU-054	45		NO RECORDABLE INDICATIONS
0/40/110 7107	SUR	1MSM-023	ACC		NO RECORDABLE INDICATIONS
26MS(1)C-3LDI	V OL	1MSU-054	45		NO RECORDABLE INDICATIONS
26467436 71.00	SUR	1MSM-023	ACC		NO RECORDABLE INDICATIONS
26MS(1)C-3LD0	V OL	1MSU-054	45		NO RECORDABLE INDICATIONS
MS-HC-1(V)	SUR	1MSM-023	ACC		NO RECORDABLE INDICATIONS
MS-HC-1	SUR	1MSM-025	ACC		NO RECORDABLE INDICATIONS
MS-SC-6	V T3H	1HV-0193	ACC		NO RECORDABLE INDICATIONS
MS-SC-7	V T3H	1HV-0193	ACC		NO RECORDABLE INDICATIONS
MS-SC-5	V T3H	1HV-0193	ACC		NO RECORDABLE INDICATIONS
MS-SC-8	V T3H	1HV-0193	ACC		NO RECORDABLE INDICATIONS
MS-HC-2	V T3H	1HV-0193	ACC		NO RECORDABLE INDICATIONS

## WASHINGTON PUBLIC WER SUPPLY SYSTEM NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE SYSTEM OR COMPONENT MS(1)-4 DESCRIPTION: MAIN STEAM LINE C



DRAWING NO. MS-:	103	
------------------	-----	--

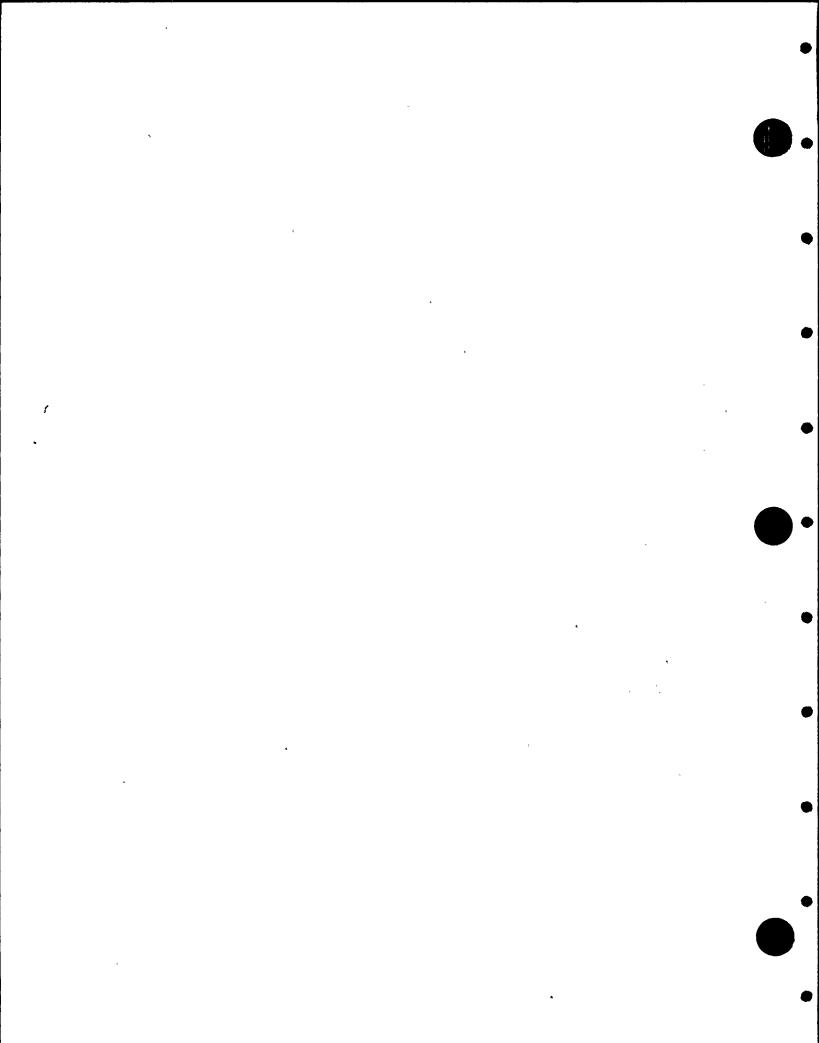
IDENTNO. MS-V-22C-BDY	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINAT NO INDIC.	ION RESULT INSIGNIF INDIC.	SIGNII GEOMETRY	REMARKS	
MS-V-28C-BDY	V T-3	1HSV-096	ACC				PSI ON INTERNAL MACHINED SURFACES AND REPAIR GRINDOUTS. LIMITED ISI EXAM DUE TO ACCESS. SECT. XI REPAIR PLAN 2-0555.
	V T-3	1MSV-094		ACC			PSI OF MACHINED INTERNAL SUFACES. ISI OF INTERNAL VALVE SURFACES. NUMEROUS ROUND IND. < 1/16" DIA. SECT. XI REPAIR PLAN 2-0557.
MS-PB-103(L)	V T-2	1VT2-90	ACC				NO RECORDABLE INDICATIONS.

WASHINGTON PUBLIC FOWER SUPPLY SYSTEM NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE SYSTEM OR COMPONENT MS(1)-4
DESCRIPTION: MAIN STEAM LINE D

PAGE 001 DATE 10/22/90

DRAW	ING	NO.	MS-10	4
------	-----	-----	-------	---

<u>IDENTNO.</u> 26MS(1)D-3	EXAM. <u>MTH.</u>	EXAM. DATA SHEET NO.	EXAMINATION RESULTS  NO INSIGNIF SIGNIFICANT  INDIC. INDIC. GEOMETRY OTHER	REMARKS
26m3(110-3	YOL	1MSU-053	45	NO RECORDABLE INDICATIONS
	SUR	1MSM-024	ACC	NO RECORDABLE INDICATIONS
26MS(1)D-3LDI	V OL	1MSU-053	45	NO RECORDABLE INDICATIONS
26MS(1)D-3LD0	SUR	1MSM-024	ACC	NO RECORDABLE INDICATIONS
26M3(1)D-3ED0	V OL	1MSU-053	45	NO RECORDABLE INDICATIONS
26MS(1)D-4LUI	SUR	1MSM-024	ACC	NO RECORDABLE INDICATIONS
2003(170-4001	VOL	1MSU-053	45 .	NO RECORDABLE INDICATIONS
26MS(1)D-4LU0	SUR	1MSM-024	ACC ~	NO RECORDABLE INDICATIONS
28/13(170-4600	V OL	1MSU-053	45	NO RECORDABLE INDICATIONS
26MS(1)D-4	SUR	1MSM-024	ACC	NO RECORDABLE INDICATIONS
26/13(170-4	V OL	1MSU-053	45	NO RECORDABLE INDICATIONS
26MS(1)D-5	SUR	1MSM-024	ACC	NO RECORDABLE INDICATIONS
2042(11n-2	V OL	1MSU-055	45	FULL VOL. UT EXAM PERFORMED FROM . DNST SIDE OF WELD TO ACHIEVE 100% OF WELD AND BASE METAL TO COMPEN- SATE FOR UPST SIDE BEING BLOCKED BY PWS 34-1.



## WASHINGTON PUBLIC WER SUPPLY SYSTEM NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE SYSTEM OR COMPONENT MS(1)-4 DESCRIPTION: MAIN STEAM LINE D

PAGE 002 DATE 10/22/90

IDENT NO.	EXAM.	EXAM. DATA SHEET NO.		NSIGNIF	 FICANT OTHER	REMARKS
	SUR	1MSU-055	•		45 ACC	FULL VOL. UT EXAM OF WELD AND BASE METAL PERFORMED FROM DNST SIDE FOR COMPLETE VOL/SUR EXAM DUE TO UPST SIDE RESTRICTION BY PWS 34-1.
MS-HD-1(W) MS-SD-6	SUR	1MSM-026	ACC			NO RECORDABLE INDICATIONS
MS-SD-7	V T3H	1HV-0193	ACC			NO RECORDABLE INDICATIONS
MS-SD-5	V T3H	1HV-0193	ACC			NO RECORDABLE INDICATIONS
MS-SD-9	V T3H	1HV-0193	ACC			NO RECORDABLE INDICATIONS
MS-PB-104(L)	VT3H	1HV-0193	ACC			NO RECORDABLE INDICATIONS
,	V T-2	1VT2-90	ACC			NO RECORDABLE INDICATIONS.

WASHINGTON PUBLIC OWER SUPPLY SYSTEM NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE SYSTEM OR COMPONENT MS(9)-4

PAGE 001 DATE 10/22/90

DESCRIPTION: MS VALVE DRAINS

DRAWING NO. MS-105

		EXAM. DATA	EXAMINATION RESULT	rs	•
	EXAM.	SHEET	NO INSIGNIF	SIGNIFICANT	
IDENTNO. MS-260	MTH.	<u>NO.</u>	INDIC. INDIC.	GEOMETRY OTHER	REMARKS
MS-1C-1PS	VT3H	1HV-0193	ACC		NO RECORDABLE INDICATIONS
MS-261	VT3H	1HV-0193	ACC		NO RECORDABLE INDICATIONS
MS-PB-105(L)	V T 3 H	1HV-0193	ACC		NO RECORDABLE INDICATIONS
M3-FB-103(L)	V T-2	1VT2-90	ACC		NO RECORDABLE INDICATIONS.

DRAWING NO. MS-106

### WASHINGTON PUBLIC OWER SUPPLY SYSTEM NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE MS(12)-4 SYSTEM OR COMPONENT DESCRIPTION: MS RX VES HEAD VENT



		EXAM. DATA	EXAMINAT	ION RESULT	S	 •
IDENT.NO.	EXAM. MIH.	SHEET NO.	NO INDIC.	INSIGNIF INDIC.	SIGNIFICA GEOMEIRY OIH	 REMARKS -
MS-PB-106(L)	V T-2	1VT2-90	ACC			NO RECORDABLE INDICATIONS.

• . , н .

WASHINGTON PUBLIC WER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT HS(1)-4
DESCRIPTION: MAIN STEAM LINE B

PAGE 001 DATE 10/22/90

DRAWING NO. MS-202

SKAMING MOR NO.		EXAM. DATA		ION RESULT		
IDENTNO. MS-155	EXAM. MTH.	SHEET NO.	NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY OTHER	REMARKS
MS-178	V T3H	1HV-0193	ACC		,	NO RECORDABLE INDICATIONS
MS-179	V T3H	1HV-0193	ACC			NO RECORDABLE INDICATIONS
MS-152	V T3H	1HV-0193	ACCEP			NO RECORDABLE INDICATIONS
MS-151	V T3H	1HV-0193	ACC			NO RECORDABLE INDICATIONS
MS-150	VT3H	1HV-0193	ACC			NO RECORDABLE INDICATIONS
MS-149	V T3H	1HV-0193	ACC			LOOSE LCKNUT ON E. STRUT TIGHTENED
MS-146	V T3H	1HV-0193	ACC			NO RECORDABLE INDICATIONS
MS-144	VT3H	1HV-0193	ACC		•	NO RECORDABLE INDICATIONS
MS-142	V T3H	1HV-0193	ACC			NO RECORDABLE INDICATIONS
	V T3H	1HV-0193	ACC			NO RECORDABLE INDICATIONS

WASHINGTON PUBLIC OWER SUPPLY SYSTEM NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE SYSTEM OR COMPONENT MS(1)-4
DESCRIPTION: MAIN STEAM LINE C

PAGE 001
DATE 10/22/90

DRAWING NO. MS-203

TOGUT NO	EXAM.	EXAM. DATA SHEET	EXAMINATION RESULT NO INSIGNIF	SIGNIFICANT	<b>B</b> =0.0
IDENTNO. MS-31	MTH.	<u>NO</u>	INDIC. INDIC.	GEOMETRY OTHER	REMARKS
,	V T3H	1HV-0193	ACC		HANDTIGHT JAMB NUT ON WEST STRUT
MS-30		44114 4465	• • •		
MS-49	V T3H	1HV-0193	ACC		NO RECORDABLE INDICATIONS
110 47	V T3H	1HV-0193	ACC		NO RECORDABLE INDICATIONS
MS-28					•
MS-141	V T3H	1HV-0193	ACC		NO RECORDABLE INDICATIONS
N3-141	V T3H	1HV-0193	ACC		NO RECORDABLE INDICATIONS
MS-24			,,,,,	-	
	VT3H 🕜	1HV-0193	ACC		NO RECORDABLE INDICATIONS

.

•

•

.

•

3

•

DRAWING NO. MS-204

WASHINGTON PUBLIC OWER SUPPLY SYSTEM NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE SYSTEM OR COMPONENT MS(1)-4

PAGE 001 DATE 10/22/90

DESCRIPTION: MAIN STEAM LINE D

EX AM . DATA

EXAMINATION RESULTS

SIGNIFICANT

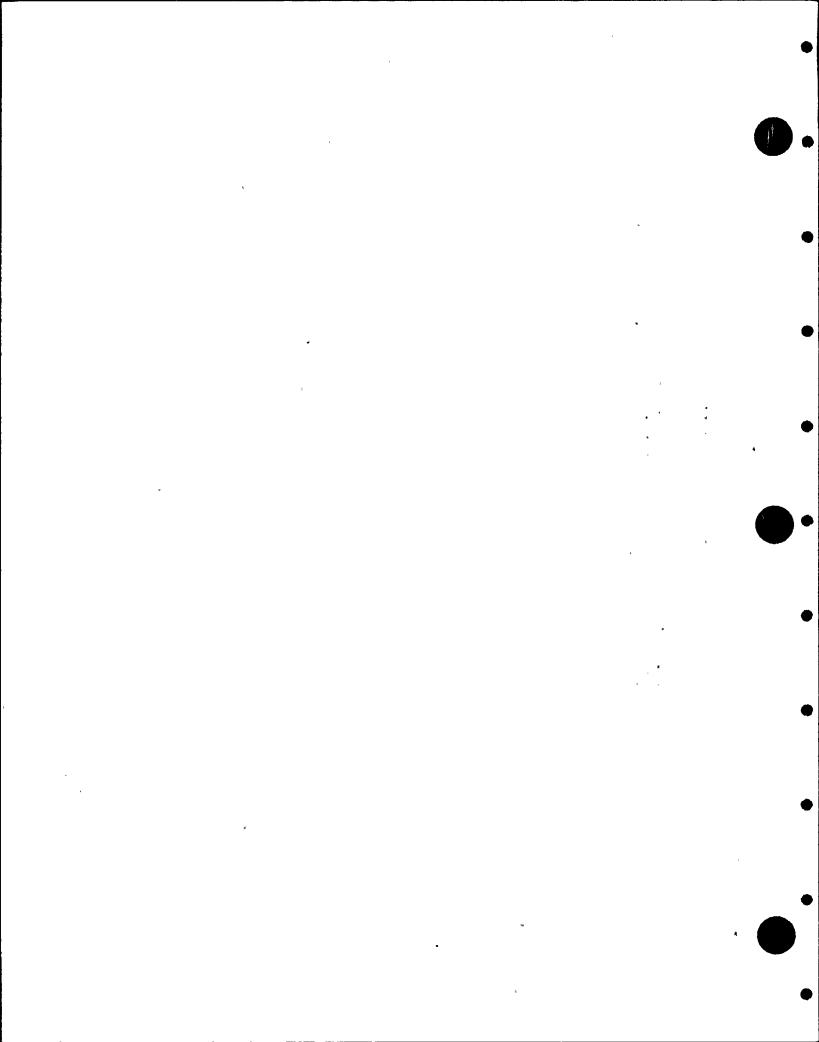
SHEET EXAM. IDENT .. NO. MTH. NO.\_\_\_\_

INSIGNIF INDIC. INDIC. GEOMETRY OTHER

REMARKS

MS-55

V T3H 1HV-0193 ACC ·NO RECORDABLE INDICATIONS



WASHINGTON PUBLIC OWER SUPPLY SYSTEM NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE +QC I SN SYSTEM OR COMPONENT

PAGE 001 DATE 10/22/90

DESCRIPTION: MISC SNUBBERS

EXAM. DATA

EXAMINATION RESULTS

SIGNIFICANT

IDENT .. NO. MS-256

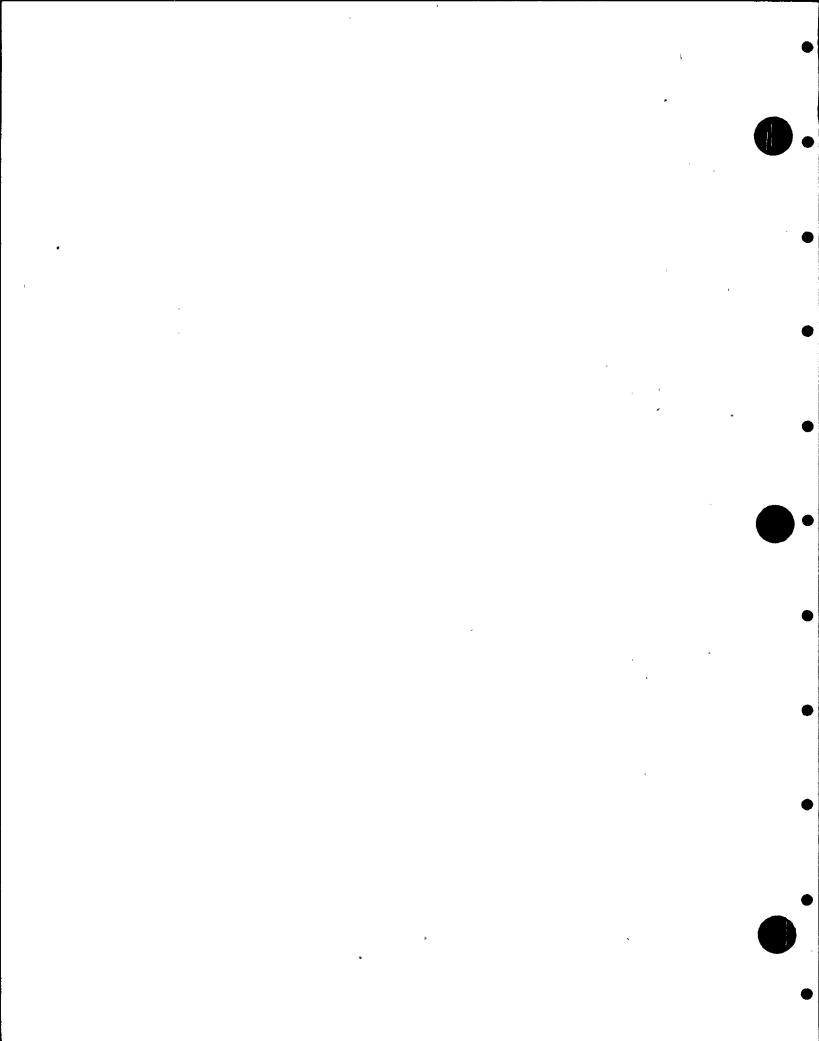
SHEET EXAM. MTH. NO. NO -INSIGNIF INDIC. INDIC.

GEOMETRY OTHER REMARKS

DRAWING NO. MS-206

**V T3H** 1HV-0204 ACC

TOP SAUBBER DELETED. BOTTOM SNUBBER REPLACED WITH STRUT. SECT. XI PLAN 2-0552. PSI OF NEW STRUT.



## WASHINGTON PUBLIC OWER SUPPLY SYSTEM NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE SYSTEM OR COMPONENT REW(1)-4 DESCRIPTION: RX FEEDWATER LINE A

PAGE 001 DATE 10/22/90

IDENT NO.	EXAM. MTH.	EXAM. DATA SHEET NQ.	EXAMINATION RESULTS  NO INSIGNIF SIGNIFICANT INDIC. INDIC. GEOMETRY OTHER	REMARKS
RFW-148	V ТЗН	1HV-0211	ACC	SNUBBER REPLACED WITH STRUT AT R5. SECT. XI PLAN 2-0591. PSI OF NEW STRUT.
24RFW(1)A-9	V OL	1FWU-080	45	NO RECORDABLE INDICATIONS
242544114	SUR	1FWM-008	ACC .	NO RECORDABLE INDICATIONS
24RFW(1)A-12	V OL	1FWU-082	45	NO RECORDABLE INDICATIONS
10050/1140	SUR	1FWM-011	ACC	NO RECORDABLE INDICATIONS
12RFW(1) AB-3	V OL	1FWU-086	45	NO RECORDABLE INDICATIONS
100507111111	SUR	1FWM-013	ACC	NO RECORDABLE INDICATIONS
12RFW(1)AA-1	V OL	1FWU-085	45	SCAN LIMITED ON DNST SIDE DUE TO ECC. RED. CONFIGURATION.
RFW-152	SUR	1FWM-017	ACC	NO RECORDABLE INDICATIONS
	VT3H	1HV-0196	ACC	NO RECORDABLE INDICATIONS
12RFW(1)AA-3	V OL	1FWU-085	45	NO RECORDABLE INDICATIONS
RFW-151	SUR	1FWM-017	ACC .	NO RECORDABLE INDICATIONS
161.221	V T3H	1HV-0198	ACC	NO RECORDABLE INDICATIONS

WASHINGTON PUBLICOWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT RFW(1)-4
DESCRIPTION: RX FEEDWATER LINE A

PAGE 002 DATE 10/22/90

DRAWING NO. RFW-101

<u>IDENTNO.</u> 12RFW(1)AA-4	EXAM.	EXAM. DATA SHEET NO.	EXAMINATION RESULT NO INSIGNIF INDIC. INDIC.	SIGNIFICANT GEOMETRY OTHER	REMARKS	
12818(1) 88-4	V OL	1FWU-085	45		NO RECORDABLE INDICATIONS	•
05U 000U	SUR	1FWM-012	ACC		NO RECORDABLE INDICATIONS	
RFW-929N RFW-159	V T3 H	1HV-0197	ACC	-	NO RECORDABLE INDICATIONS	
12RFW(1) AA-8	VT3H	1HV-0203	ACC		NO RECORDABLE INDICATIONS	
12KFW(1) MA-0	V OL	1FWU-098	45		NO RECORDABLE INDICATIONS	
	SUR	1FWM-021	ACC		NO RECORDABLE INDICATIONS	
RFW-PB-101(L)	VT-2	1VT2-90	ACC		NO RECORDABLE INDICATIONS.	

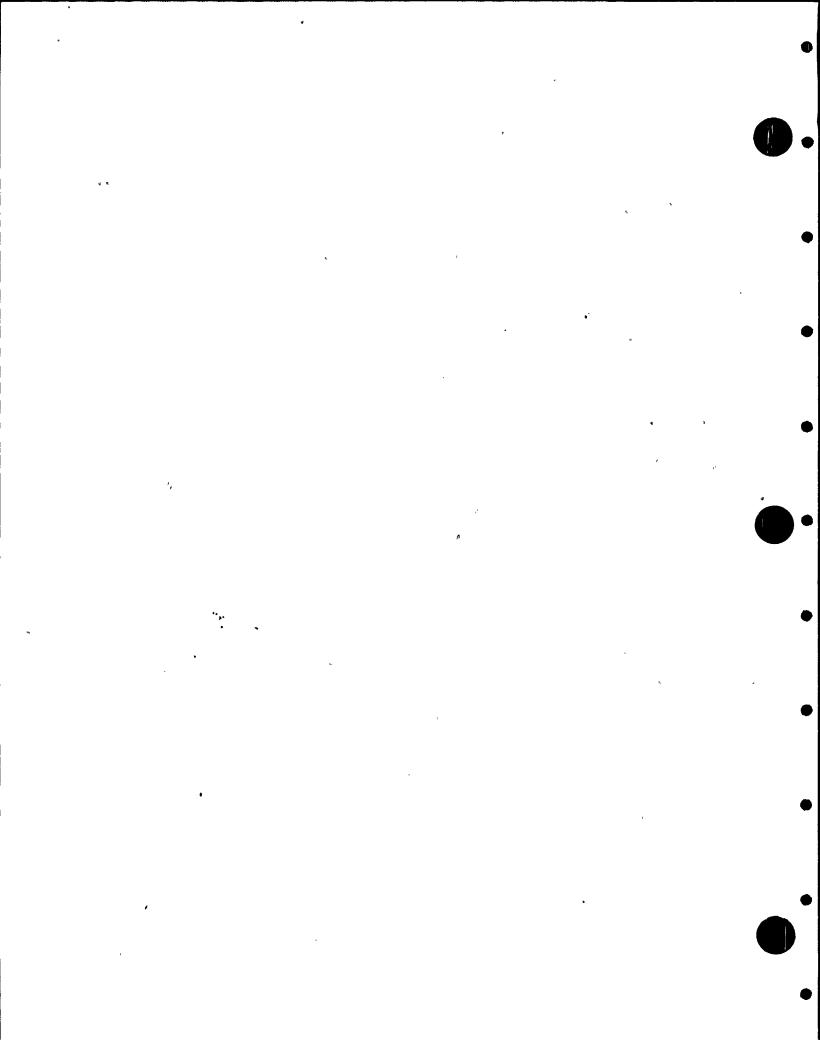
. • / **y** • ħ. ٠ . ч • 41 ab • • .

t

### WASHINGTON PUBLIC OWER SUPPLY SYSTEM NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE SYSTEM OR COMPONENT RFW(1)-4 DESCRIPTION: RX FEEDWATER LINE B



DICKETHO HOS ICI	102	EXAM.				
		DATA	EXAMINAT	ION RESULT		-
	EXAM.	SHEET	ИО	INSIGNIF		
<u>IDENTNO.</u> RFW-182	<u>HTH.</u>	NO	INDIC.	INDIC.	GEOMETRY OTHER	REMARKS
RFW-164	V T3H	1HV-0200	ACC		,	NO RECORDABLE INDICATIONS
	V ТЗН	1HV-0212	ACC			SNUBBER REPLACED WITH STRUT AT R5. SECT. XI PLAN 2-0591. PSI OF NEW STRUT.
24RFW(1)B-12						
-	V OL	1FWU-083	45			NO RECORDABLE INDICATIONS
RFW-184	SUR	1FWM-015	ACC			NO RECORDABLE INDICATIONS
	V T3H	1HV-0201	ACC		T.	NO RECORDABLE INDICATIONS
12RFW(1)BE-9						
	VOL	1RFU-079	44			NO RECORDABLE INDICATIONS
12RFW(1)BE-10	SUR	1FWP-061	ACC			NO RECORDABLE INDICATIONS
	VOL	1RFU-078	44			NO RECORDABLE INDICATIONS
12RFW(1)BE-11	SUR	1FWP-061	ACC			NO RECORDABLE INDICATIONS
	VOL	1FWU-077	44			SCAN LIMITED ON NOZZLE SIDE DUE TO CONFIGURATION.
RFW-173	SUR	1FWP-061	ACC			NO RECORDABLE INDICATIONS
12RFW(1)BD-4	VT3H .	1HV-0199	ACC	-		NO RECORDABLE INDICATIONS
12464(1)00-4	VOL	1FWU-084	45		÷	NO RECORDABLE INDICATIONS



WASHINGTON PUBLIC OWER SUPPLY SYSTEM NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE SYSTEM OR COMPONENT RFW(1)-4
DESCRIPTION: RX FEEDWATER LINE B

PAGE 002 DATE 10/22/90

DRAW	ING	NO.	RFW	-102
------	-----	-----	-----	------

		EXAM. DATA	EXAMINAT	ION_RESULT	<u>s</u>	
IDENT NO.	EXAM. MIH.	SHEET NO.	NO INDIC.	INSIGNIF INDIC.	SIGNIFI GEOMETRY O	REMARKS
RFW-171	SUR	1FWH-014	ACC '			NO RECORDABLE INDICATIONS
	VТЗН	1HV-0195	ACC			NO RECORDABLE INDICATIONS
RFW-915N	VТЗН	1HV-0194	ACC	•		NO RECORDABLE INDICATIONS
RFW-183	V T3H	1HV-0202	•	ACC		LOOSE CLAMP BOLT TIGHTENED. MED. RUST ON PIN AND TURNBUCKLES FROM DRYWELL COOLER MOISTURE DRIPPING ON COMPONENTS.
12RFW(1)BD-7	V OL	1FWU-097	45			NO RECORDABLE INDICATIONS
10051141100	SUR	1FWM-023	ACC			NO RECORDABLE INDICATIONS
12RFW(1)BD-8	V OL	1FWU-096	45			NO RECORDABLE INDICATIONS
DEN 00 100/13	SUR	1FWM-022	ACC			NO RECORDABLE INDICATIONS
RFW-PB-102(L)	VT-2	1VT2-90	ACC			NO RECORDABLE INDICATIONS.

# WASHINGTON PUBLIC OWER SUPPLY SYSTEM NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE SYSTEM OR COMPONENT REW(11)-4 DESCRIPTION: REACTOR FEEDWATER

PAGE 001 DATE 10/22/90

DRAWING	NO.	RFW-103
---------	-----	---------

<u>IDENTNO.</u> RFW-177	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION NO IN INDIC. IN	NSIGNIF	SIGNIFICANT GEOMETRY OTHER	REMARKS
•	V ТЗН	1HV-0193	ACC			NO RECORDABLE INDICATIONS
6RFW(11)-4	VOL	1FWU-089	45			LIMITED SCAN ON PIPE-SIDE DUE TO WELDED LUGS.
(DEU/11) 5	SUR	1FWM-019	ACC			NO RECORDABLE INDICATIONS
6RFW(11)-5	V OL	1FWU-089	45			NO RECORDABLE INDICATIONS
405	SUR	1FWM-019	ACC			NO RECORDABLE INDICATIONS
6RFW(11)-6	V OL	1FWU-087	45	5	•	TWO IND. AT 75% DAC.
6RFW(11)-7	SUR	1FWM-019	ACC			NO RECORDABLE INDICATIONS
9VLM(II)-1	V OL	1FWU-088	45	5		TWO IND. AT 75% DAC.
6RFW(11)-8	SUR	1FWM-019	ACC			NO RECORDABLE INDICATIONS
6KFW(11)-0	VOL	1FWU-089	45			NO RECORDABLE INDICATIONS
/05U/111_0	SUR	1FWM-019	ACC			NO RECORDABLE INDICATIONS
6RFW(11)-9	V OL	1FWU-089	45			NO RECORDABLE -INDICATIONS
6RFW(11)-10	SUR	1FWM-019	ACC			NO RECORDABLE INDICATIONS
ON: #(11)-10	V OL	1FWU-089	45			NO RECORDABLE INDICATIONS

• • , ' • • 

WASHINGTON PUBLIC OWER SUPPLY SYSTEM NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE SYSTEM OR COMPONENT REW(11)-4
DESCRIPTION: REACTOR FEEDWATER

PAGE 002 DATE 10/22/90

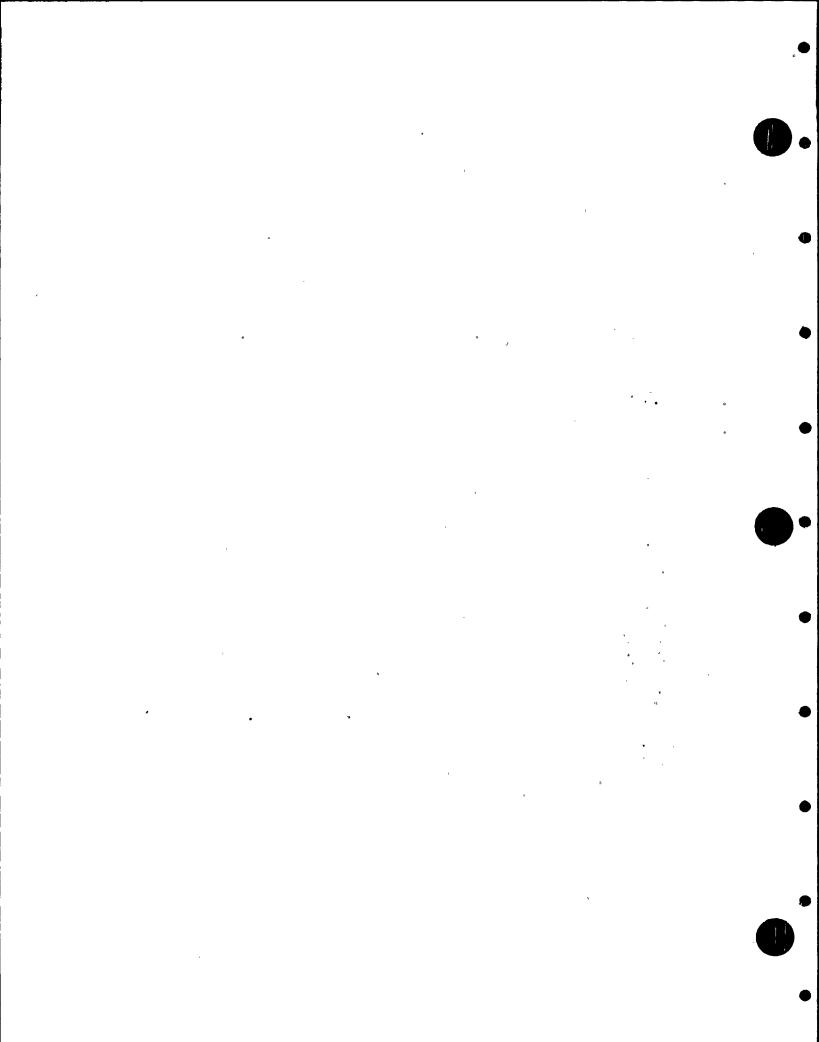
DRAWING NO. RFW-103

OKANIJO NOS KIW-	105	EXAM. Data	EXAMINAT	ION RESULT	S	
IDENT NO.	EXAM.	SHEET NO.	ИО	INSIGNIF INDIC.	SIGNIFICANT	REMARKS
40EH/1110-1	SUR	1FWM-019	ACC		Þ	NO RECORDABLE INDICATIONS
4RFW(11)B-1 VOL		1FWU-090		45		ID GECHETRY NOTED AT 60-75% DAC. NO EXAM ON UPST SIDE DUE REDUCER CONFIGURATION.
4RFW(11)B-1A	SUR	1FWM-020	ACC			NO RECORDABLE INDICATIONS
4KLM(11)D-14	V OL	1FWU-091		45		ID GECHETRY NOTED AT 70-110% DAC.
4RFW(11)B-2	SUR	1FWM-020	ACC			NO RECORDABLE INDICATIONS
4818(11)0-2	VOL	1FWU-092		45	•	ID GECHETRY NOTED AT 55-95% DAC.
4RFW(11)B-3	SUR	1FWM-020	ACC			NO RECORDABLE INDICATIONS
	V OL	1FWU-093		45		ID GEOMETRY AND WELD TIE-IN NOTED AT 50-125% DAC.
RFW-181	SUR	1FWM-020	ACC			NO RECORDABLE INDICATIONS
4RFW(11)B-4	VT3H	1HV-0193	ACC			NO RECORDABLE INDICATIONS
441 841170-4	V OL	1FWU-094		45		ID GECMETRY NOTED AT 80% DAC.
4RFW(11)8-5	SUR	1FWM-020	ACC			NO RECORDABLE INDICATIONS
	V OL	1FWU-095		45		ID GECMETRY NOTED AT 80% DAC.

WASHINGTON PUBLIC OWER SUPPLY SYSTEM NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE SYSTEM OR COMPONENT REV(11)-4
DESCRIPTION: REACTOR FEEDWATER

DRAWING	NO.	RFW-103	
			EXAM.

		EXAM. Data	EXAMINAT	ION RESULT	<u>s</u>		
IDENTNO.	EXAM. MTH.	SHEET NO.	NO INDIC	INSIGNIF INDIC.	SIGNIF GEOMETRY	OTHER	REMARKS
RFW-PB-103(L)	SUR	1FWH-020	ACC			•	NO RECORDABLE INDICATIONS
VLM-LD-I02(F)	V T-2	1VT2-90	ACC				NO RECORDABLE INDICATIONS



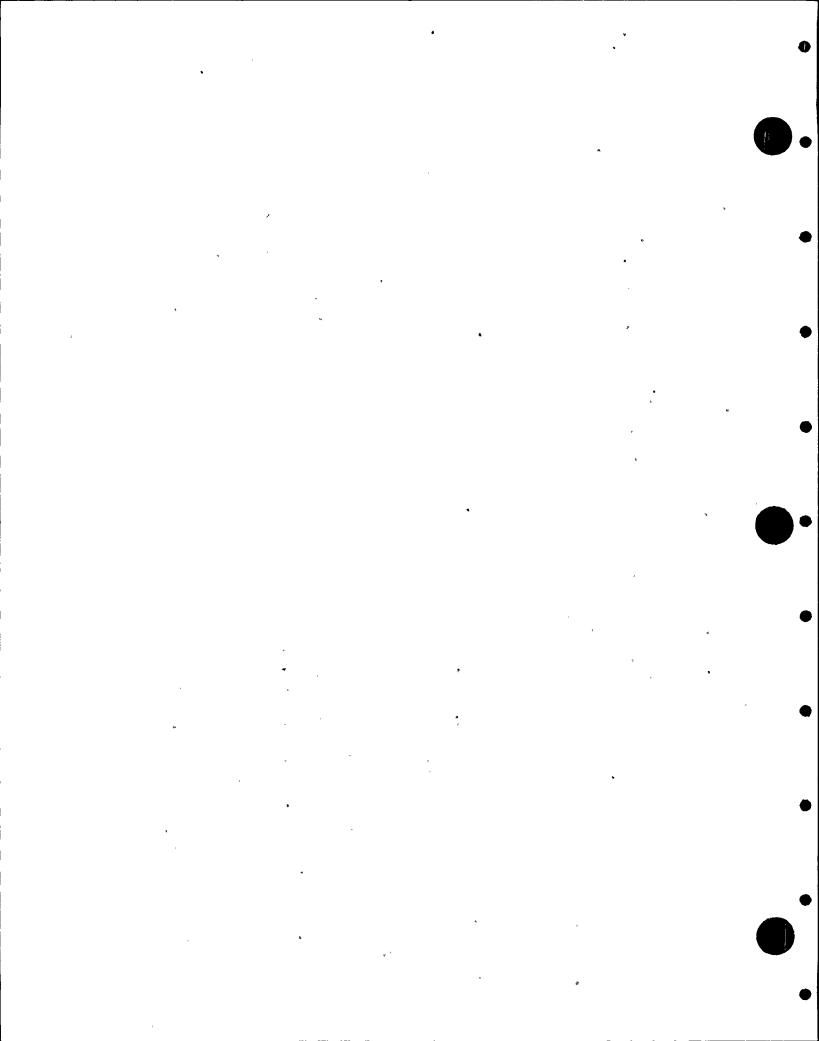
WASHINGTON PUBLIC OWER SUPPLY SYSTEM NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE SYSTEM OR COMPONENT RC(2)-4S DESCRIPTION: REACTOR RECIR LOOP A

DRAWING	NO.	RRC-101

IDENT - NO - RRC-V-60 A-BDY	EXAM. NIH.	EXAM. DATA SHEET NO.	NO	ION RESULT INSIGNIF INDIC.	SIGNIFICANT	REMARKS
KKC-V-60 A-60 1	VT-3	1RRV-020		ACC		BONNET OFF, BALL IN PLACE IN CLSED POS. MINOR SURFACE OXIDATION ON ALL INTERNAL SURFACES. SHINY SPOT NOTED ON BALL AND ON SEAT WHERE BALL HAD GONE PAST FULL-CLSED POS. AND "HUNG UP."
RRC-HA-9						
	V T3H	1HV-0193	ACC			NO RECORDABLE INDICATIONS
16RRC(1)A-1/12R	RC(1)-N	120				•
	VOL	1RRU-139	45			LIMITED SCAN FROM SWEEPOLET SIDE DUE TO CONFIGURATION.
	SUR	1RRP-079	ACC			NO RECORDABLE INDICATIONS
RRC-SA-13						
	VT3H	1HV-0193	ACC			NO RECORDABLE INDICATIONS
RRC-SA-11						NA
1/000/11/4 1/100	VT3H	1HV-0193	ACC			NO RECORDABLE INDICATIONS
16RRC(1)A-1/12R			۸E E0			LIMITED SCAN ON SWEEPOLET SIDE DUE
	V OL	1RRU-138	409 09			TO CONFIGURATION.
1/000/11 4 7	SUR	1RRP-077	ACC			NO RECORDABLE INDICATIONS
16RRC(1) A-3	VOL	1RRU-139	45		-	LIMITED SCANS ON CROSS SIDE DUE TO CONFIGURATION.
RRC-HA-8	V T3H	1HV-0193	ACC			NO RECORDABLE INDICATIONS

# WASHINGTON PUBLIC OWER SUPPLY SYSTEM NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE SYSTEM OR COMPONENT. RRC(2)-45 DESCRIPTION: REACTOR RECIR LOOP A

		EXAM.			•
	EXAM.	DATA Sheet	EXAMINATION RI		
<u>IDENTNO.</u> 16RRC(1) A-3/12R	MIH.	NO.	INDIC. INDIC		REMARKS
16KKC(17X-3712K	VOL	1RRU-139	45		LIMITED SCAN FROM FITTING SIDE DUE TO-TEE CONFIGURATION.
RRC-SA-12	SUR	1RRP-081	ACC		NO RECORDABLE INDICATIONS
RRC-SA-14	V T3H	1HV-0193	ACC		NO RECORDABLE INDICATIONS
16RRC(1) A-3/12R	V T3H	1HV-0193	ACC		NO RECORDABLE INDICATIONS
18446(1) 4-3) 124	VOL.	1RRU-138	45, 59		LIMITED SCANS ON SWEEPOLET SIDE DUE TO CONFIGURATION.
1/00//11/4 //	SUR	1RRP-074	ACC		NO RECORDABLE INDICATIONS
16RRC(1)A-4	VOL	1RRU-138	45, 59		SCANS LIMITED ON CAP SIDE DUE TO CONFIGURATION.
12RRC(1)-N2A-1	V OL	1RRU-141	45		SCANNED FROM ONE SIDE USING 1-1/2V CALIBRATION.
10000443 404 44	SUR	1RRP-076	ACC		NO RECORDABLE INDICATIONS
12RRC(1)-N2A-1L	V OL	1RRU-141	45		SCANNED FROM ONE SIDE USING 1-1/2V CALIBRATION.
10000(11 1104 7	SUR	1RRP-075	ACC		NO RECORDABLE INDICATIONS
12RRC(1)-N2A-3	V OL	1RRU-142	45,	58	ID GEOMETRY NOTED AT 100% DAC.



# WASHINGTON PUBLIC WER SUPPLY SYSTEM NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE SYSTEM OR COMPONENT RRC(2)-45 DESCRIPTION: REACTOR RECIR LOOP A

PAGE 003 'DATE 10/22/90

DRAWING NO. RRC-101

EVAL

N.		EXAM. DATA	EVANTNAT	IÕN RESULT	c	
	EXAM.	SHEET	NO	INSIGNIF	SIGNIFICANT	- <del></del>
<u>IDENTNO.</u> 12RRC(1)-N2B-3	MIH.	NO.	*	INDIC.	GEOMETRY OTHER	REMARKS
12RRC(1)-N2C-1	V OL	1RRU-142		45, 58		ID GECMETRY NOTED AT 100% DAC.
	V OL	1RRU-140	45			ID GECM. NOTED AT 70% DAC. SCANNED FROM ONE SIDE USING 1-1/2V CALI-BRATION. NO SIGN OF IGSCC IN FRONT OF ID SIGNAL.
12RRC(1)-N2C-1L	SUR	1RRP-082	ACC			NO RECORDABLE INDICATIONS
15/40(1)-420-16	VOL	1RRU-147	45, 58			NO RECORDABLE INDICATIONS
12RRC(1)-N2C-1A	SUR	1RRP-083	ACC			NO RECORDABLE INDICATIONS
IZMMOTI NEO IA	V OL	1RRU-140	45			ID GEOM. NOTED AT 70% DAC. NO SIGN OF IGSCC IN FRONT OF ID SIGNAL
12RRC(1)-N2C-1A	LD			T.		A 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
12RRC(1)-N2C-3	V OL	1RRU-147	45, 58	ā		NO RECORABLE INDICATIONS
12RRC(1)-N2D-1	VOL	1RRU-142		45, 58		ID GECHETRY NOTED AT 100% DAC.
	V OL	1RRU-147	45, 58			SCANNED ONLY FROM PIPE SIDE DUE TO CONFIGURATION OF SWEEPOLET.
12RRC(1)-N2D-1L	S UR	1RRP-078	ACC			NO RECORDABLE INDICATIONS
- Land II Hebrit	V OL	1RRU-147	45, 58			NO RECORDABLE INDICATIONS
	SUR	1RRP-080	ACC			NO RECORDABLE INDICATIONS

*1*) • **+** •... -\*

KNP-02 INTERVAL: 01 PERIOD: 2

OUTAGE: R5 DRAWING NO. RRC-101

### WASHINGTON PUBLIC WER SUPPLY SYSTEM NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE SYSTEM OR COMPONENT RRC(2)-45 DESCRIPTION: REACTOR RECIR LOOP A

PAGE 004 DATE 10/22/90

EX AM.

EXAM.

MTH.

DATA SHEET EXAMINATION RESULTS

SIGNIFICANT

INSIGNIF INDIC. INDIC.

GEOMETRY OTHER

IDENT .. NO. RRC-PB-101(L)

VT-2 1VT2-90 ACC

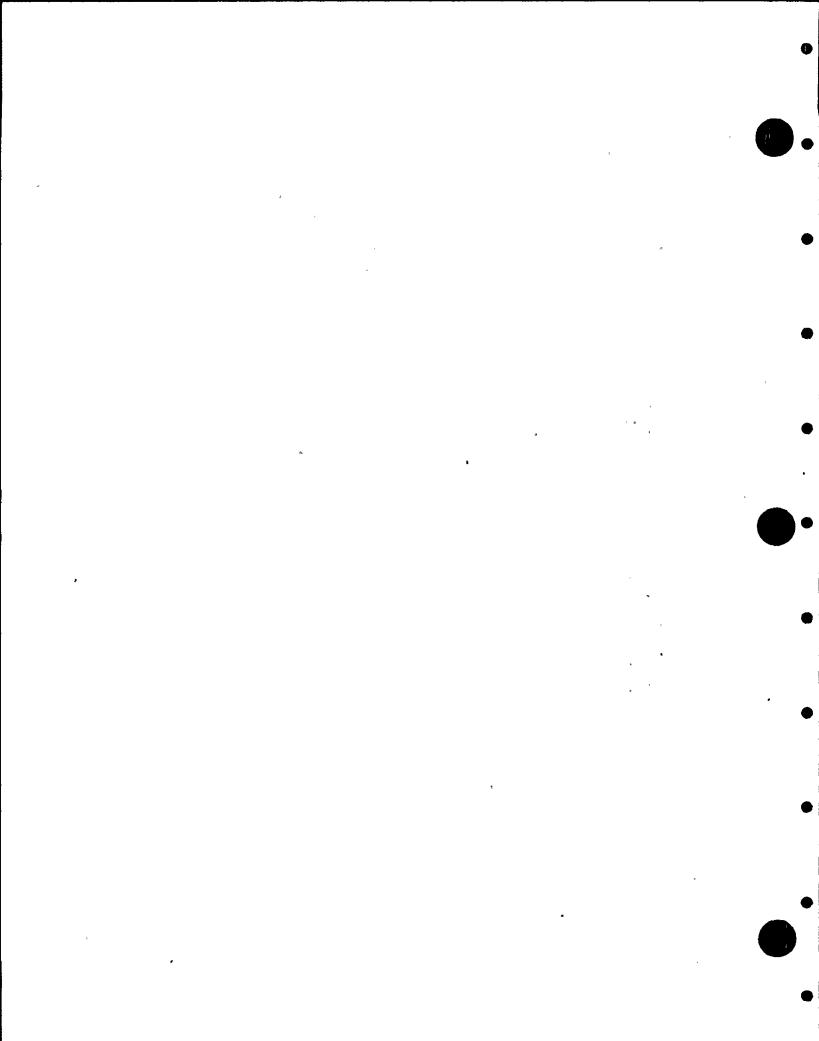
NO •

NO RECORDABLE INDICATIONS.

WASHINGTON PUBLIC OWER SUPPLY SYSTEM NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE RRC(2)-45 SYSTEM OR COMPONENT DESCRIPTION: REACTOR RECIR LOOP B

PAGE 001 DATE 10/22/90

		EXAM. Data	EXAMINATION_RESUL	TS	
<u>IDENTNO.</u> RRC-PB-102(L)	EXAM. MTH.	SHEET NO.	NO INSIGNIF INDIC. INDIC.	SIGNIFICANT GEOMETRY OTHER	REMARKS
	V T-2	1VT2-90	ACC		NO RECORDABLE INDICATIONS



WASHINGTON PUBLIC FOWER SUPPLY SYSTEM NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE SYSTEM OR COMPONENT RRC-P-1A

PAGE 001 DATE 10/22/90

RRC-101 - AND RRC-102

DRAWING NO. RRC-103

DESCRIPTION: RRC LOOP A PUMP

		EXAM. DATA	EXAMINAT	ION_RESULT	S	•
IDENTNO.	EXAM. MTH.	SHEET №0	NO INDIC.	INSIGNIF	SIGNIFICANT GEOMETRY OTHER	REMARKS
RRC-P8-103(L)	VT-2	1VT2-90	ACC	***************************************		EXAM AREA IS COVERED ON DRAWINGS

· · . , • · ·

WASHINGTON PUBLICATION SUPPLY SYSTEM NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE SYSTEM OR COMPONENT RRC(51)-4
DESCRIPTION: RPV DRAIN

PAGE 001 DATE 10/22/90

NO RECORDABLE INDICATIONS

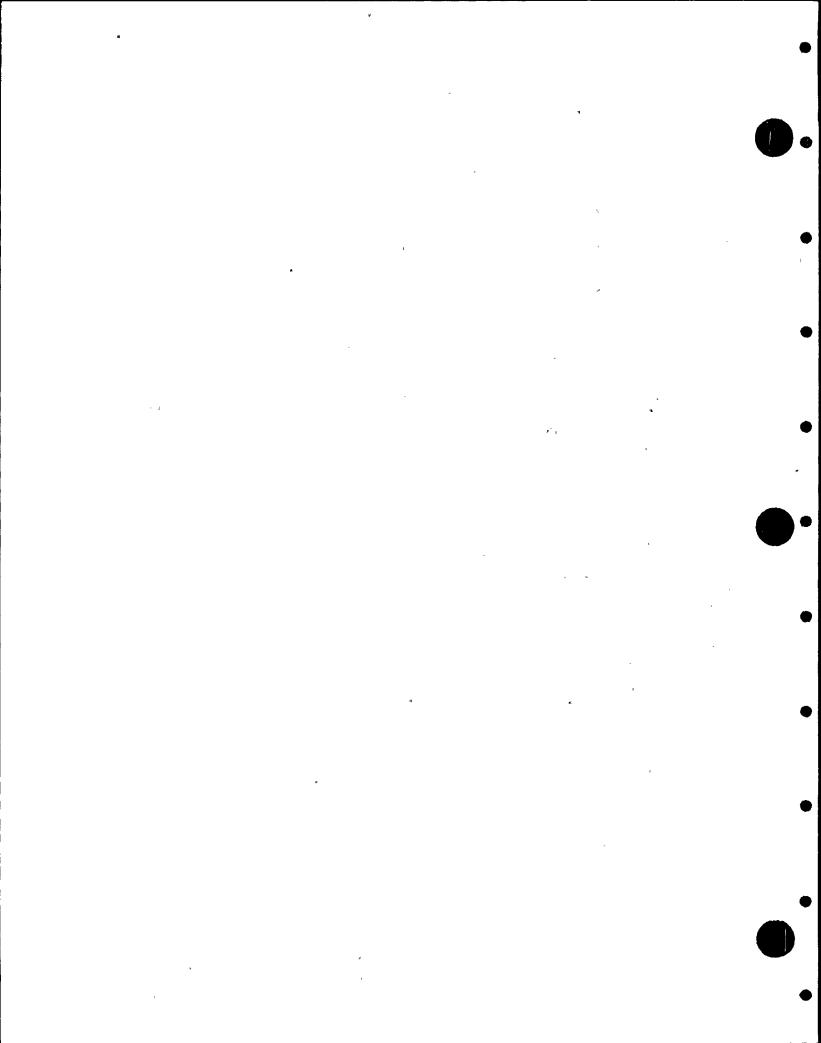
DRAWING NO. RRC-104

V T-2

1VT2-90

ACC

		EXAM. DATA	EXAMINAT	ION RESULT	S		
IDENTNO. RRC-PB-104(L)	EXAM. MIH.	SHEET NO.	NO INDIC.	INSIGNIF INDIC.	SIGNIFIC GEOMETRY OF	CANT	REMARKS



### WASHINGTON PUBLIC OWER SUPPLY SYSTEM NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE SYSTEM OR COMPONENT RRC(6)-4S DESCRIPTION: RHR SHUTDN COOL SUCT

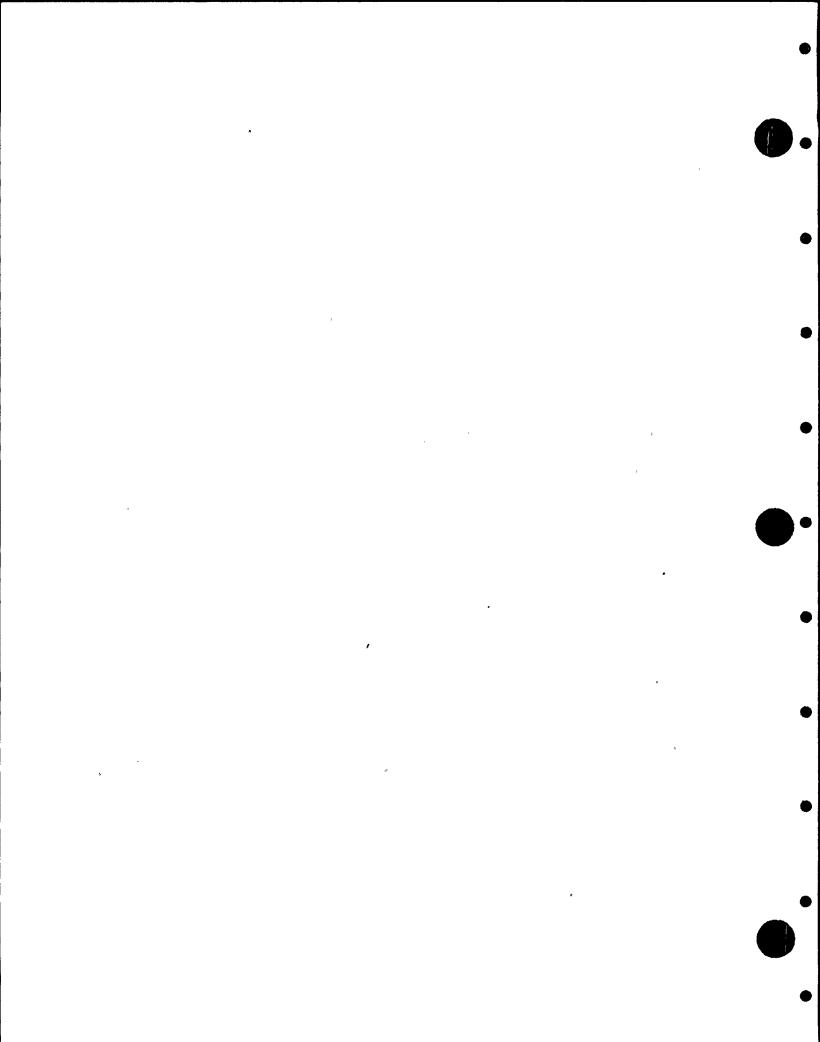
PAGE 001 DATE 10/22/90

DRAWING NO. RRC-105

<u>IDENTNO.</u> 20RRC(6)-2LU	EXAM.	EXAM. DATA SHEET NO.	NO	ION_RESULT INSIGNIF INDIC•	SIGNIFICA	REMARKS
201110107-220	V OL	1RRU-143	45		•	NO RECORDABLE INDICATIONS
0000046	SUR	1RRP-084	ACC			NO RECORDABLE INDICATIONS
20RRC(6)-2	V OL	1RRU-144		45		ID GECMETRY NOTED AT 80% DAC.
00000445 0104	SUR	1RRP-085	ACC			NO RECORDABLE INDICATIONS
20RRC(6) -2LDI	V OL	1RRU-145	45			NO RECORDABLE INDICATIONS
00000465 0100	SUR	1RRP-086	ACC			NO RECORDABLE INDICATIONS
20RRC(6)-2LD0	V OL	1RRU-146	45			NO RECORDABLE INDICATIONS
000	SUR	1RRP-087	ACC			NO RECORDABLE INDICATIONS
RRC-1	V T3H	1HV-0193	ACC			NO RECORDABLE INDICATIONS
RHR-SA-50	v тзн	1HV-0193		ACC		LIGHT CORROSION ON SPHERICAL BUSHING.
RRC-PB-105(L)	V T-2	1VT2-90	ACC			NO RECORDABLE INDICATIONS.

WASHINGTON PUBLIC FOWER SUPPLY SYSTEM NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE SYSTEM OR COMPONENT RRC(7)-4S DESCRIPTION: SHUTDN COOL RETURN A

		EXAM. DATA	EXAMINATIO	N RESULT	S		
IDENTNO.	EXAM. MTH.	SHEET NO.		NSIGNIF NDIC.	SIGNIFICANT GEOMETRY OTHER		REMARKS -
RRC-PB-106(L)	V T-2	1VT2-90	ACC		•		NO RECORDABLE INDICATIONS.

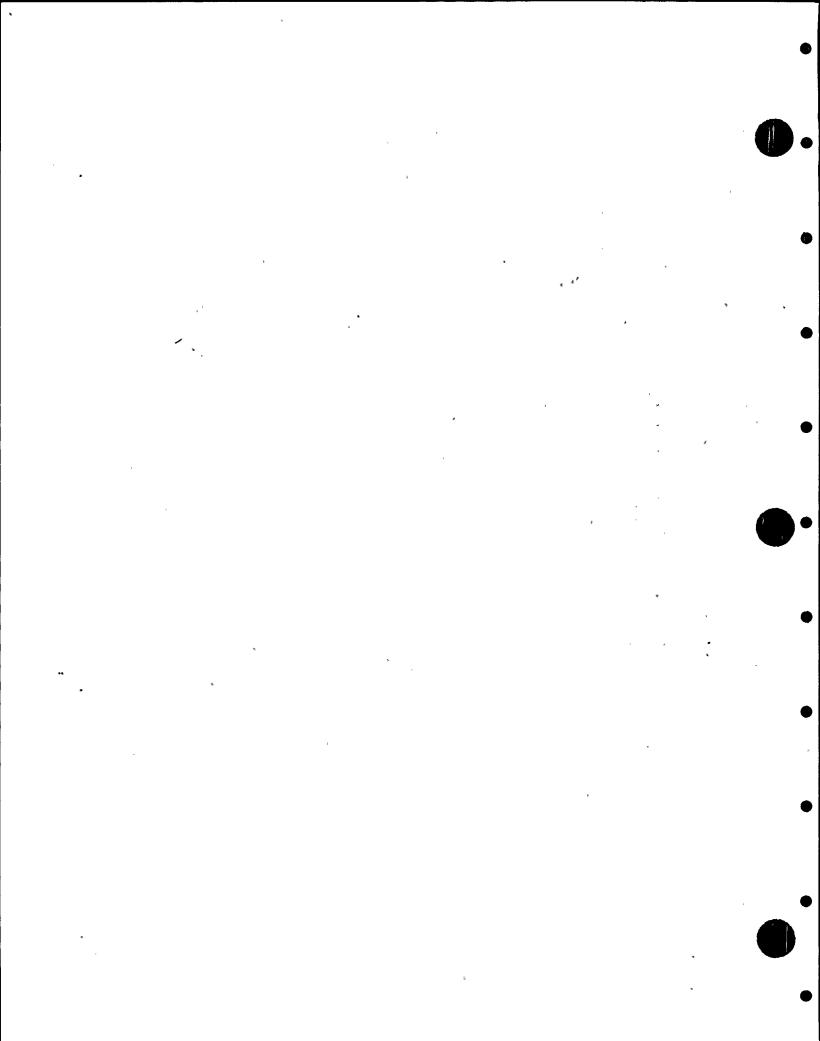


WASHINGTON PUBLIC WER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT RRC(7)-45
DESCRIPTION: SHUTDN COOL RETURN B

		EXAM. DATA	EXAMINAT	ION_RESULT	<u>s</u>		
IDENTNO.	EXAM. MTH.	SHEET NO INDIC.	INSIGNIF	SIGNI	FICANT	REMARKS	
RRC-PB-107(L)	V T-2	1VT2-90	ACC				NO RECORDABLE INDICATIONS.

WASHINGTON PUBLIC - JWER SUPPLY SYSTEM NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE SYSTEM OR COMPONENT RC(4)-4S DESCRIPTION: RWCU INTERTIE RRC A

		EXAM. DATA	EXAMINAT	ION_RESULT	<u> </u>			
<u>IDENTNO.</u> RRC-PB-108(L)	EXAM. M <u>TH.</u>	SHEET NO.	NO INDIC.	INSIGNIF INDIC.	SIGNIE GEOMETRY	-	REMARKS	
KNO 10 100(L)	VT-2	1VT2-90	ACC				NO RECORDABLE INDICATIONS.	



WASHINGTON PUBLIC OWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT RRC(4)-4S
DESCRIPTION: RWCU\_INTERTIE\_RRC\_B

		DATA	EXAMINAT	ION RESULT	<u>s</u>		
IDENTNO.	EXAM. MTH.	SHEET NO	NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT GEOMETRY OTHER	REMARKS	
RRC-PB-109(L)	V T-2	1VT2-90	ACC			NO RECORDABLE INDICATIONS.	•

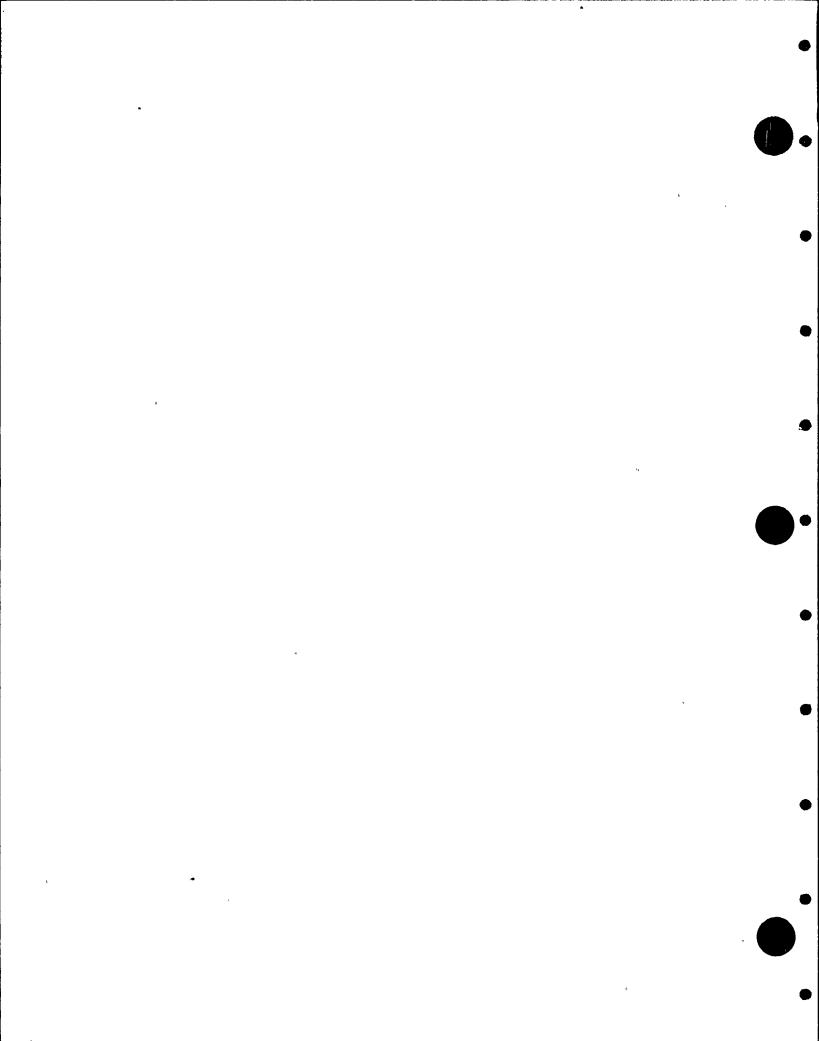
EVAM

WASHINGTON PUBLIC WER SUPPLY SYSTEM NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE SYSTEM OR COMPONENT RRC(6)-4S
DESCRIPTION: RRC LOOP A DRAIN

		DATA	EXAMINAT	ION RESULT	S		
IDENT NO.	EXAM. MIH.	SHEET NO.	NO INDIC.	INSIGNIF INDIC.	SIGNII GEOMETRY	 REMARKS	
RRC-P8-110(L)	V T-2	1VT2-90	ACC			NO RECORDABLE INDICATIONS.	

WASHINGTON PUBLIC WER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT RRC(6)-4S
DESCRIPTION: RRC LOOP B DRAIN

		DATA	EXAMINAT	ION RESULT	<u>S</u>	
IDENTNO.	EXAM.	• SHEET	NO INSIGNIF		SIGNIFICANT GEOMETRY OTHER	
RRC-PB-111(L)	V T-2	1VT2-90	ACC			NO RECORDABLE INDICATIONS.



1VT2-90

ACC

V T-2

# WASHINGTON PUBLICATION SUPPLY SYSTEM NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE SYSTEM OR COMPONENT RWCU(4)-4 DESCRIPTION: RPV DRAIN TO RWCU

PAGE 001 DATE 10/22/90

NO RECORDABLE INDICATIONS.

		EXAM. DATA	EXAMINAT	ION_RESULT	<u>\$</u>		
	EXAM.	SHEET	NO	INSIGNIF	SIGNIFI	CANT	•
IDENTNO. RWCU-1C-4PS(W)	MTH.	<u>NO.</u>	INDIC.	INDIC.	GEOMETRY O	THER	<u>REMARKS</u>
	SUR	1RTM-004	ACC				PIPE CLAMP SIDE OF WELDED LUG NOT MT EXAMINED DUE TO CONFIGURATON.  3 SIDES OF THE WELDED LUGS COULD BE MT EXAMINED. THIS IS ACCEPTABLE BECAUSE ONLY WELD LENGTH (SIDES PERP. TO CLAMP) IS REQUIRED.
RWCU-1C-4PS	V T3H	1HV-0193	ACC	•			NO RECORDABLE INDICATIONS
RWCU-1C-3(W)	VIJN	104-0193	ACC				NO RECORDABLE INDICATIONS
	SUR	1RTM-002	ACC				NO RECORDABLE INDICATIONS
RWCU-1C-3	И ТЗ Н	1HV-0193		ACC			LIGHT CORROSION ON SPHERICAL BUSHING.
RWCU-PB-101(L)							

WNP-02 INTERVAL: 01 PERIOD: 2 WASHINGTON PUBLICOWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT RWCU(2)-4
DESCRIPTION: RWCU HX RTN TO REW

PAGE 001 DATE 10/22/90

2 . .

OUTAGE: R5
DRAWING NO. RWCU-303

		EXAM. Data	EXAMINAT	ION RESULT	<u>s</u>	
<u>IDENTNO.</u> 6RWCU(2)-5	EXAM. MTH.	SHEET NO.	NO INDIC.	INSIGNIF INDIC.	SIGNIFICANT - GEOMETRY OTHER	REMARKS
	V OL	1RTU-015	45			NO DNST AXIAL SCAN DUE TO FLANGE CONFIGURATION.
6RWCU(2)-6	V OL	1RŤU-016		45		1 IND. AT 25% DAC. NO UPST AXIAL SCAN DUE TO FLANGE CONFIGURATION.
6RWCU(2)-7 4RWCU(2)-8	V OL	1RTU-017	45			NO RECORDABLE INDICATIONS
711 # CO (2) - O	SUR	1RTM-003	ACC			NO RECORDABLE INDICATIONS

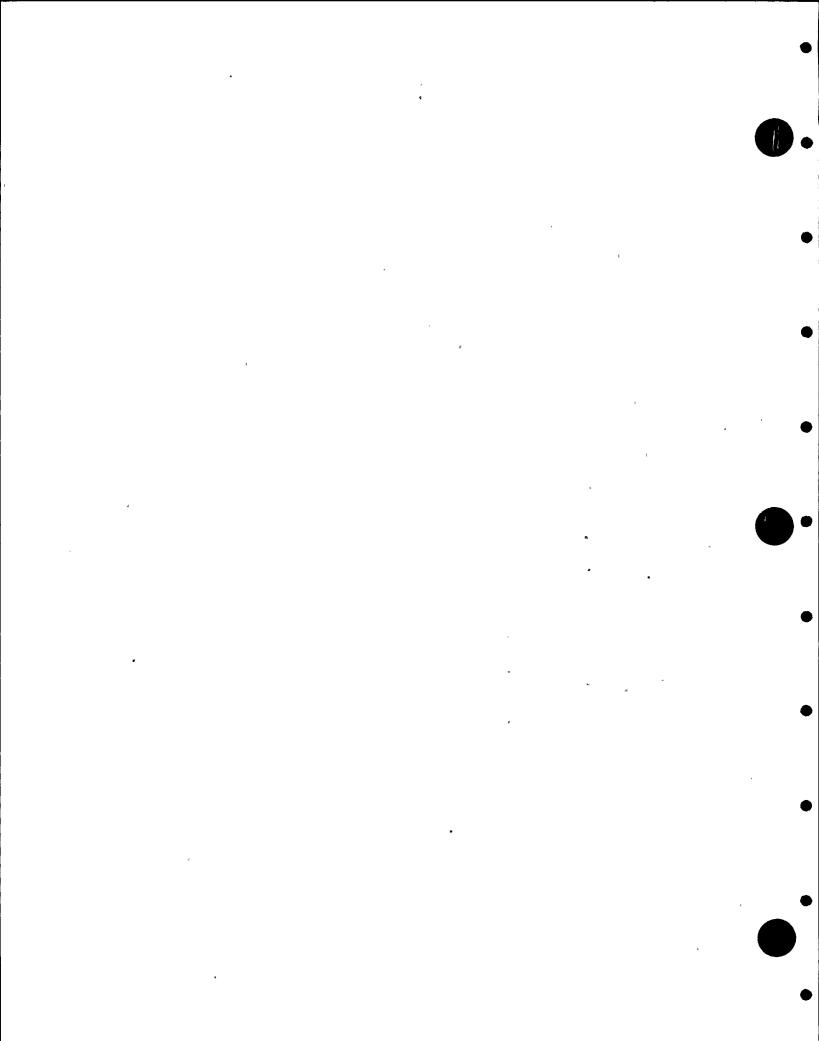
• • 1 4 • I . 

WASHINGTON PUBLIC OWER SUPPLY SYSTEM NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE SYSTEM OR COMPONENT FPC(7)-1
DESCRIPTION: RET TO SUPPR POOL

PAGE 001
DATE 10/22/90

DRAWING NO. FPC-201

<u>IDENTNO.</u> FPC-170	EXAM. MTH.	EXAM. DATA SHEET NO.	EXAMINATION RESULT NO INSIGNIF INDIC. INDIC.	SIGNIFICANT GEOMETRY OTHER	REMARKS
	V T3H	1HV-0193	ACC	•	NO RECORDABLE INDICATIONS
FPC-172	V T3H	1HV-0193	ACC	-	NO RECORDABLE INDICATIONS
FPC-237	V ТЗН	1HV-0193	ACC		NO RECORDABLE INDICATIONS
FPC-238	v	1HV-0193	ACC		NO RECORDABLE INDICATIONS
FPC-239	V T3H	1HV-0193	ACC	•	.NO RECORDABLE INDICATIONS



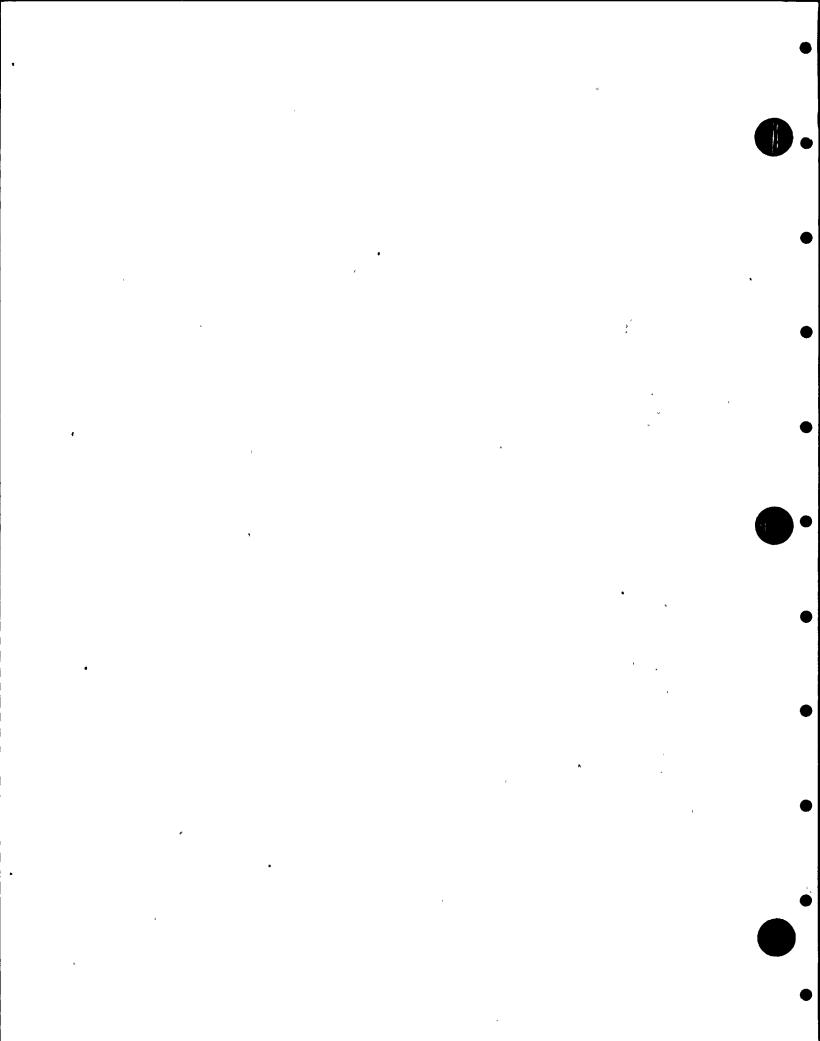
WASHINGTON PUBLIC OWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT FPC(1)-1
DESCRIPTION: FUEL POOL CIRC/IK-1B

PAGE 001 DATE 10/22/90

DRAWING NO. FPC-301

FV AM

		EXAM. DATA	EVANTNAT	ION RESULT	•	•
	EXAM.	SHEET	NO	INSIGNIF	SIGNIFICA	
IDENT NO. FPC-57	MTH.	<u>NO•</u>	INDIC.	INDIC.	GEOMETRY OTH	ER REMARKS
FPC-58	V T3H	1HV-0193	ACC		•	NO RECORDABLE INDICATIONS
FPC-919N	v <b>T</b> 3H	1HV-0193	ACC			NO RECORDABLE INDICATIONS
FPC-59	VT3H	1HV-0193	ACC			NO RECORDABLE INDICATIONS
FPC-60	VT3H	1HV-0193	ACC			NO RECORDABLE INDICATIONS
	V T3H	1HV-0193	ACC			NO RECORDABLE INDICATIONS.  HGR BCX FRAME FOR VERT. PIPE IS  PARA. TO & ABOUT 1" FROM CEILING  SO A FEW SHOP WELDS ARE NOT ACCESS  IBLE FOR EXAMINATION.
FPC-61	V T3H	1HV-0193	ACC			NO RECORDABLE INDICATIONS
FPC-62						•
FPC-909N	V T3H	1HV-0193	ACC			NO RECORDABLE INDICATIONS
FPC-908N	V T3H	1HV-0193	ACC .			NO RECORDABLE INDICATIONS
	VT3H	1HV-0193		ACC		CLAMP, WHICH COULD BE ROTATED, WAS TIGHTENED.
FPC-908N(W)	V T−3	1FPV-010	ACC			NO RECORDABLE INDICATIONS
FPC-41	V T3H	1HV-0193	ACC			NO RECORDABLE INDICATIONS
FPC-40	V T3H	1HV-0193	ACC			NO RECORDABLE INDICATIONS



WASHINGTON PUBLIC WER SUPPLY SYSTEM NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE SYSTEM OR COMPONENT FPC(1)-1
DESCRIPTION: FUEL POOL CIRC/TK-1B

		EXAM. DATA	EXAMINAT	<u>ION_RESULT</u>	<u>s</u>		
<u> 1DENTNO.</u> FPC-39	EXAM. MTH.	SHEET	NO	INSIGNIF INDIC.	SIGNII GEOMETRY	TICANT OTHER	REMARKS
116-37	V T3 H	1HV-0193	ACC			•	NO RECORDABLE INDICATIONS

FPC-208

WASHINGTON PUBLICOWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT FPC(2)-1
DESCRIPTION: FPC-P-1A TO DM-1A&1B

PAGE 001 DATE 10/22/90

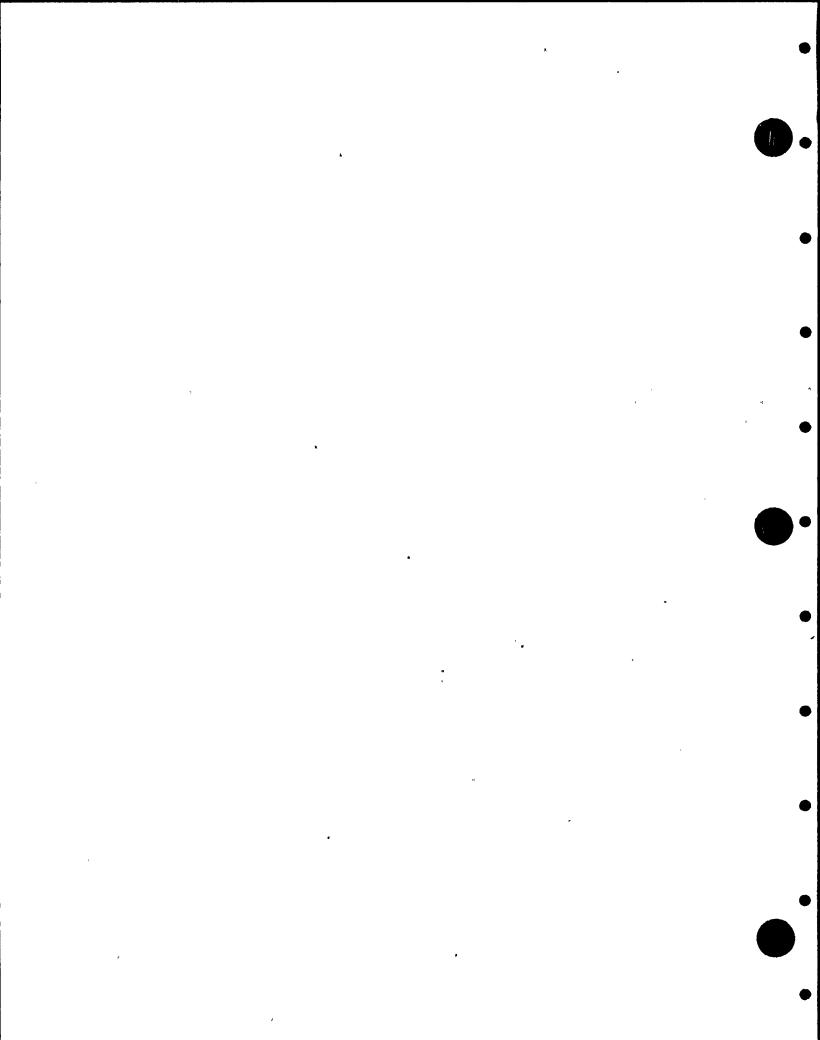
NO RECORDABLE INDICATIONS

OUTAGE: R5
DRAWING NO. FPC-302

V T3H

1HV-0193 ACC

		EXAM. DATA	EXAMINAT	ION_RESULT	S	
IDENT NO.	EXAM. MTH.	SHEET NO.	NO INDIC.	INSIGNIF	SIGNIF	REMARKS

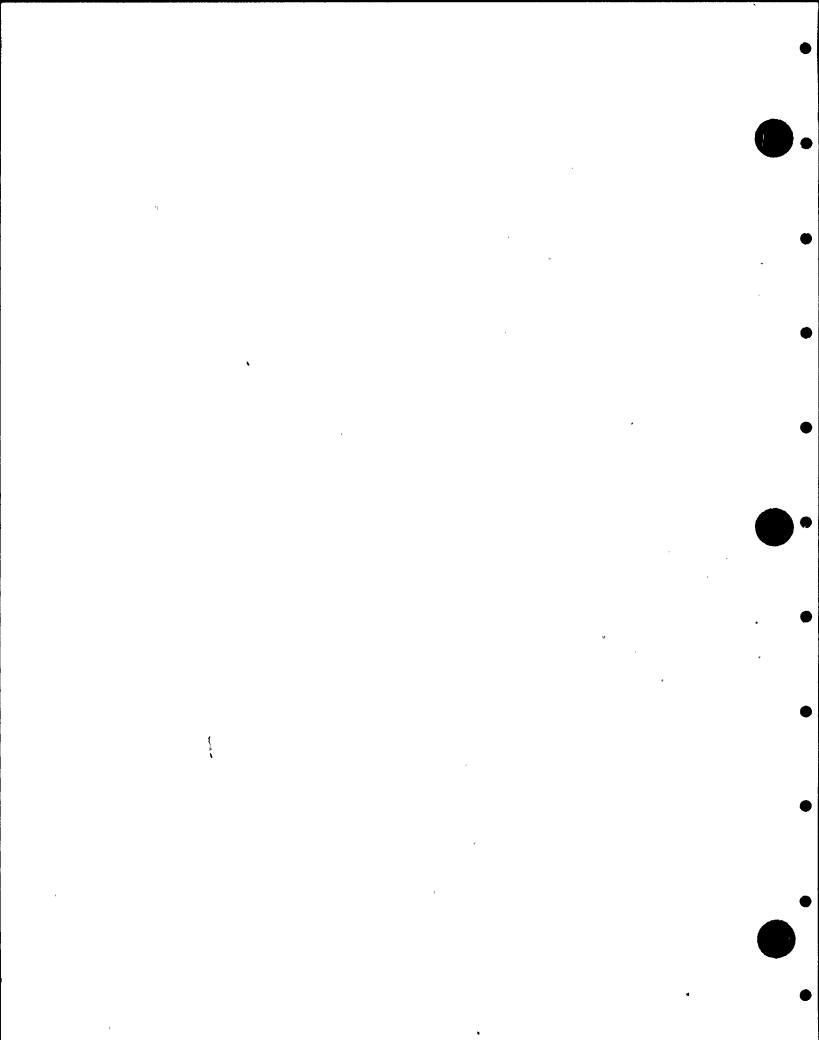


WASHINGTON PUBLIC OWER SUPPLY SYSTEM NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE SYSTEM OR COMPONENT FPC(2)-1
DESCRIPTION: FPC-P-1B TO DM-1A&1B

PAGE 001 DATE 10/22/90

DRAWING NO. FPC-303

<u> </u>		EXAM. Data	EXAMINAT	ION RESULT	S		
	EXAM.	SHEET	NO	INSIGNIF		FICANT	
<u>IDENI.NO.</u> FPC-193	MIH.	NO•	INDIC.	INDIC.	GEOMETRY	<u>OTHER</u>	REMARKS
·	V T3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
FPC-207	V <b>T</b> 3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
FPC-192							
FPC-191	V T3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
500 460	<b>V</b> T3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
FPC-188	V T3H	1HV-0193	ACC		-	•	NO RECORDABLE INDÍCATIONS
FPC-189		4.004 44.00					05600010. 5 70070177000
	V T3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS



WASHINGTON PUBLIC OWER SUPPLY SYSTEM NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE SYSTEM OR COMPONENT FPC(2)-1
DESCRIPTION: FPC-1A&1B DISCHARGE

PAGE 001 DATE 10/22/90

DRAWING NO. FPC-304

		EXAM.			_	•	
	~ v . i .	DATA		ION RESULT		70117	
TORKE NO	EXAM.	SHEET	NO	INSIGNIF	SIGNIF		DENADUC
IDENTNO. FPC-102	MTH.	<u>NQ.</u>		INDIC.	GEOMETRY	OTHER	REMARKS
FPC-103	V T3H	1HV-0193	ACÇ				NO RECORDABLE INDICATIONS
FPC-104	V T3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
FPC-105	V T3H	1HV-0193	ACC	>			NO RECORDABLE INDICATIONS
	V T3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
FPC-106	v тзн	1HV-0193	ACC			_	NO RECORDABLE INDICATIONS
FPC-107	V T3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
FPC-108	V T3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
FPC-109	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
FPC-110	٧ТЗН	1HV-0193	ACC				NO RECORDABLE INDICATIONS
FPC-111							
FPC-113	VT3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS
	V T3H	1HV-0193	ACC				NO RECORDABLE INDICATIONS

WASHINGTON PUBLICATION SUPPLY SYSTEM NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE SYSTEM OR COMPONENT FPC(3)-1
DESCRIPTION: FPC-DM-1A RETURN

PAGE 001 DATE 10/22/90

DRAWING NO. FPC-305

		EXAM. Data	EXAMINAI	ION_RESULT	<u>s</u>			•
	EXAM.	SHEET	NO	INSIGNIF	SIGNIE	FICANT		
IDENTNO. FPC-92	MIH.	NO.	INDIC.	INDIC.	GEOMETRY	<u>OTHER</u>	REMARKS	
FPC-91	V T3H	1HV-0193	ACC				NO RECORDABLE	INDICATIONS
	V T3H	1HV-0193	ACC				NO RECORDABLE	INDICATIONS
FPC-77	V T3H	1HV-0193	ACC				NO RECORDABLE	INDICATIONS
FPC-76	V T3H	1HV-0193	ACC				NO RECORDABLE	INDICATIONS
FPC-75	V <b>T</b> 3H	1HV-0193	ACC		4	,	NO RECORDABLE	INDICATIONS
FPC-74	V T3H	1HV-0193	ACC				NO RECORDABLE	INDICATIONS
FPC-73	у тзн	1HV-0193	ACC				NO RECORDABLE	
FPC-72								
FPC-71	VT3H	1HV-0193	ACC				NO RECORDABLE	
FPC-68	V T3H	1HV-0193	ACC				NO RECORDABLE	INDICATIONS
	V T3H	1HV-0193	ACC				NO RECORDABLE	INDICATIONS

WASHINGTON PUBLIC WER SUPPLY SYSTEM NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE SYSTEM OR COMPONENT MS(18)-2-4
DESCRIPTION: MS-RV-4A DISCHARGE

PAGE 001 DATE 10/22/90

DRAWIN	1G 1	NO.	MS-	304
--------	------	-----	-----	-----

EXAM.

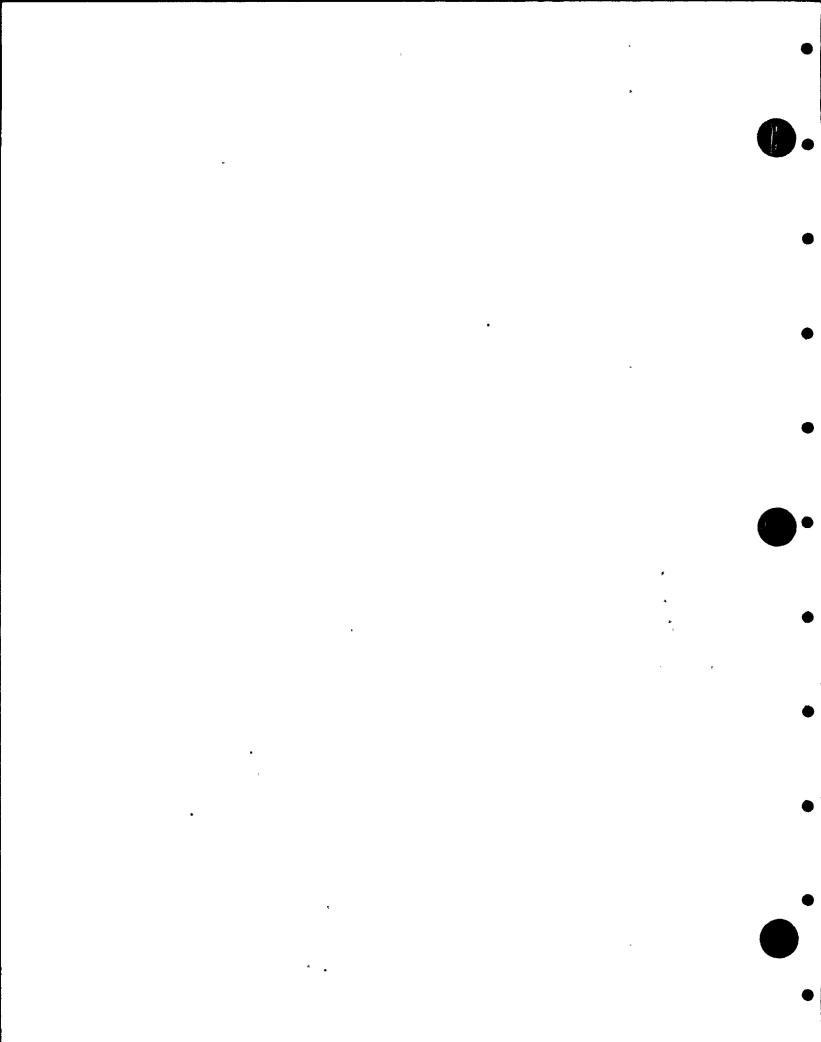
•		DATA	<u>EXAMINAI</u>	<u>ION_RESULT</u>	<u> </u>		
	EXAM.	SHEET	NO	INSIGNIF	SIGNI	FICANT	
IDENTNO. MSRV-4A-10	MIH.	NO	INDIC	INDIC.	GEOMETRY	OTHER	REMARKS
	V T3H	1HV-0210	ACC				SNUBBER REPLACED WITH STRUT AT R5.
							SECT. XI PLAN 2-0552. PST FOR NEW STRUT.
MSRV-4A-9	V T3H	1HV-0209	ACC				SNUBBER REPLACED WITH STRUT AT R5. SECT. XI PLAN 2-0552. PSI FOR NEW
•							STRUT.

WASHINGTON PUBLIC THER SUPPLY SYSTEM NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE SYSTEM OR COMPONENT SLC(2)-4S
DESCRIPTION: SLC PUMP DISCHARGE

PAGE 001 DATE 10/22/90

DRAWING NO. SLC-101

	101	EXAM. Data	EXAMINATION RESULT	c	
<u>IDENTNO.</u> SLC-P8-101(L)	EXAM. MTH.	SHEET NO.	NO INSIGNIF	SIGNIFICANT	REMARKS
SLC-4453-24	V T-2	1VT2-90	ACC		NO RECORDABLE INDICATIONS
	V T3H	1HV-0193	ACC		NO RECORDABLE INDICATIONS
SLC-4453-25A	V T3H	1HV-0193	ACC		NO RECORDABLE INDICATIONS
SLC-4453-26B	V <b>T</b> 3H	1HV-0193	ACC	•	NO RECORDABLE INDICATIONS
SLC-4453-214	V T3H	1HV-0193	ACC		NO RECORDABLE INDICATIONS
SLC-4453-215	V ТЗН	1HV-0193	ACC		NO RECORDABLE INDICATIONS
SLC-4453-29	<b>V</b> ТЗН	1HV-0193	ACC	•	NO RECORDABLE INDICATIONS
SLC-4453-210	V T 3 H	1HV-0193	ACC		NO RECORDABLE INDICATIONS
SLC-4453-211	V T3H	1HV-0193	ACC		NO RECORDABLE INDICATIONS
SLC-4453-212	v T3H	1HV-0193	ACC		NO RECORDABLE INDICATIONS
SLC-4453-213	V T3H	1HV-0193	ACC		NO RECORDABLE INDICATIONS
SLC-4453-31	V T3H	1HV-0193	ACC		NO RECORDABLE INDICATIONS
SLC-4453-32	V T3H	1HV-0193	ACC		NO RECORDABLE INDICATIONS



WNP-02
INTERVAL: ISI
PERIOD: 01
OUTAGE: R5
DRAWING NO. MISC

# WASHINGTON PUBLIC WER SUPPLY SYSTEM NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE SYSTEM OR COMPONENT CSP(1)-1 DESCRIPTION: CONTMI PURGE AIR SUP

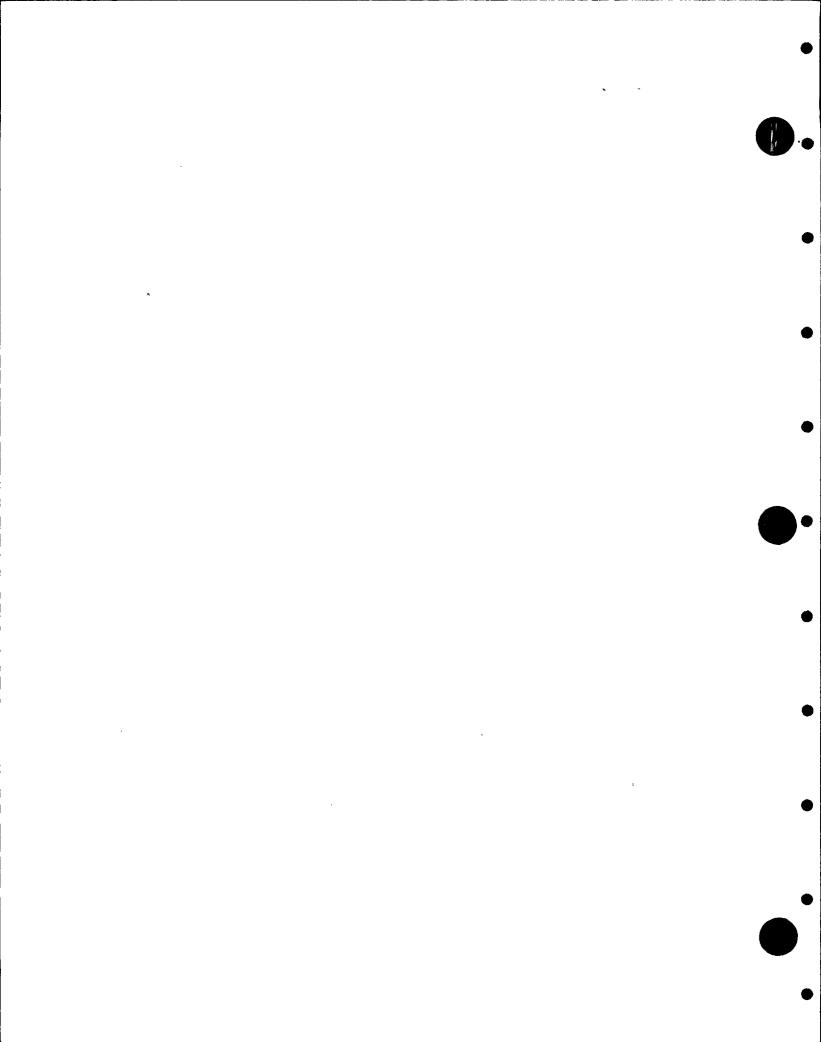


		EXAM. DATA	EXAMINAT	<u> ION_RESULT</u>	<u>S</u>	
IDENT NO.	EXAM. MIH.	SHEET NO.	NO INDIC.	INSIGNIF INDIC.	SIGNIS <u>GEOMETRY</u>	 REMARKS
24CSP(1)-5	V OL	1CSU-00	45			NO RECORDABLE INDICATIONS

#### APPENDIX C

### Repair/Replacement Listing NIS-2 Owner's Reports

This appendix summarizes all ASME Section XI repairs/replacements completed between June 27, 1989 and October 19, 1990. Also contained in Appendix C are NIS-2 forms, not previously submitted, for work completed prior to June 26, 1989. For each repair/replacement, the status of the NIS-2 Owner's Report is stated. For repairs and replacements undergoing review, a brief summary of the work performed is provided in place of the NIS-2 Owner's Report. After the review is complete, NIS-2 Owner's Reports will be issued and will be included with the next ISI Summary Report.

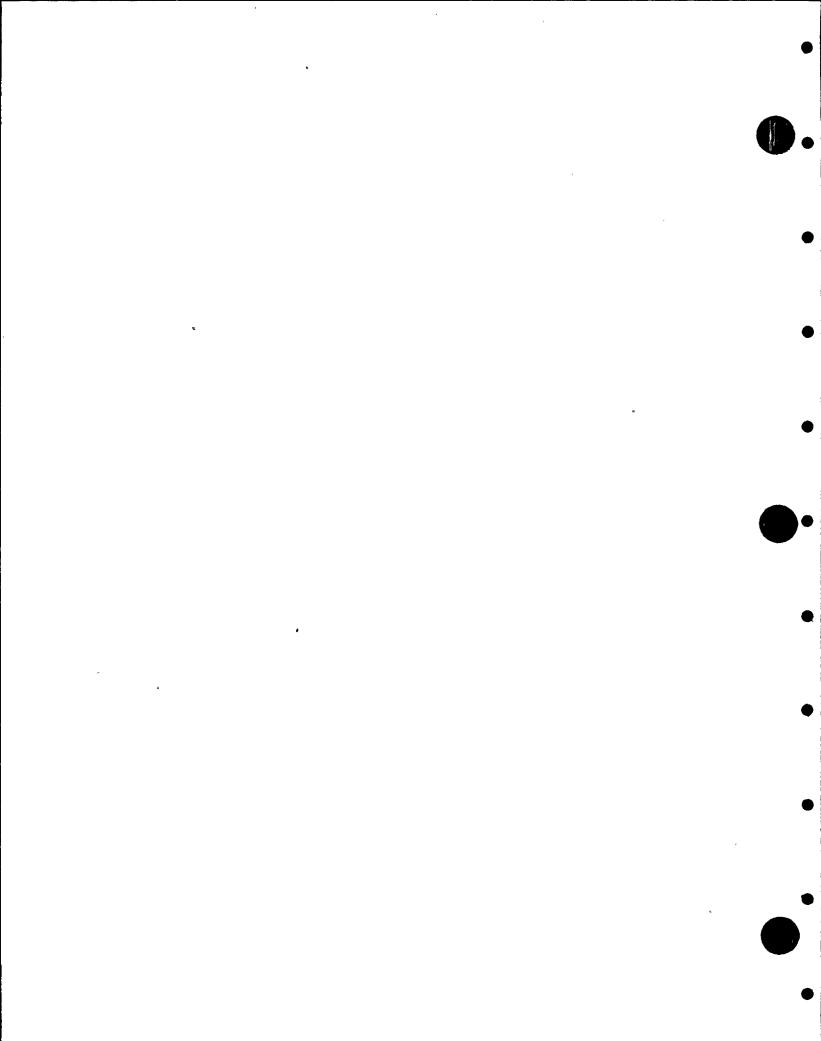


# APPENDIX C ASME SECTION XI REPAIR/REPLACEMENT LISTING FOR THY-2

2-0154   SLC System Replif   Fig.	PLAN or AND NO.	COMPONENT IDENT. NO. and/or vore description	COMPONENT Description	IN ECHNIKA SELOSA SELVINASENTICENERA SELOSAED
2-0450   FIRE CLE	2-0354	SLC System Modification	Piping -	
1-0450   CLOSUES FLATE FOR EMECU11, B				
2-0450   CLOSURE PLATS FOR EFFO7-11, B   Pumps   FF00, Stratery Report    -0451   RS-78-1C   Tellief Falre   FF00, Stratery Report    -0471   RFAIR FED0 RS-529-13   FF00   FF00, Stratery Report    -0475   CLF DRAIN LINES RS-523-13, RS-530-12   Fiping   FF00, Stratery Report    -0477   DANIS LINES RESE CSF-7-5, 7   Fiping   FF00, Stratery Report    -0484   RS-17-5C REFALCE SORT   Tellief Falre   FF00, Stratery Report    -0485   RS-74CC SORT/MCCERS IN STREEK REVY   Tellief Falre   FF00, Stratery Report    -0496   RS-74-10 SOCK/MCCERS   Tellief Falre   FF00, Stratery Report    -0497   RS-74-10 SOCK/MCCERS   Tellief Falre   FF00, Stratery Report    -0498   RS-74-10 SOCK/MCCERS   Tellief Falre   FF00, Stratery Report    -0499   RS-74-10 SOCK/MCCERS   Tellief Falre   FF00, Stratery Report    -0490   RS-74-10 SOCK/MCCERS   Tellief Falre   FF00, Stratery Report    -0491   RS-74-10 SOCK/MCCERS   Tellief Falre   FF00, Stratery Report    -0492   RS-74-10 SOCK/MCCERS   Tellief Falre   FF00, Stratery Report    -0493   RS-74-10 SOCK/MCCERS   Tellief Falre   FF00, Stratery Report    -0494   RS-74-10 SOCK/MCCERS   Tellief Falre   FF00, Stratery Report    -0495   RS-74-10 SOCK/MCCERS   Tellief Falre   FF00, Stratery Report    -0496   RAIN STREEM SOLTE LINES RS-539-13, RS-530-13   Fj036   FF00, Stratery Report    -0496   RAIN STREEM SOLTE LINES RS-539-13, RS-530-13   Fj036   FF00, Stratery Report    -0496   RAIN STREEM SOLTE LINES RS-539-13, RS-530-13   Fj036   FF00, Stratery Report    -0496   RAIN STREEM SOLTE LINES RS-539-13, RS-530-13   Fj036   FF00, Stratery Report    -0496   RAIN STREEM SOLTE LINES RS-539-13, RS-530-13   Fj036   FF00, Stratery Report    -0496   RAIN STREEM SOLTE LINES RS-539-13, RS-530-13   Fj036   FF00, Stratery Report    -0496   RAIN STREEM SOLTE LINES RS-539-13, RS-530-13   Fj036   FF00, Stratery Report    -0497   RS-745-1.2 and ERT-75-13   Ff00, Stratery Report    -0498   RAIN STREEM SOLTE LINES RS-539-13, RS-530-13   Ff00, Stratery Report    -0498   RAIN STREEM SOLTE LINES RS-539-13, RS-530-13   Ff			?iping	
1-0451   SP-27-C		CLOSURE PLATE FOR RUCU-P-1A, B		
1-0471		MS-2V-1C	Relief Valve	
2-0475		REPAIR WELD MS-529-13	?ipizg	
1-0417			62-2	
2-0417	2-0475	CAP DRAIN LINES MS-529-13, MS-530-12	riping	• •
2-0484 R5-W-56 SEPLACE BOUT 2-0489 REPLACE DISC/NOZILE IN STARE MENT 2-0489 RS-W-16 DISC/NOZILE IN STARE MENT 2-0489 RS-W-16 DISC/NOZILE REPORT 2-0491 RS-W-16 DISC/NOZILE REPORT 2-0491 RS-W-16 DISC/NOZILE REPORT 2-0491 RS-W-17 DISC/NOZILE REPORT 2-0492 RS-W-10 DISC/NOZILE REPORT 2-0492 RS-W-10 DISC/NOZILE REPORT 2-0493 RS-W-10 DISC/NOZILE REPORT 2-0494 RS-W-10 DISC/NOZILE REPORT 2-0494 RS-W-10 DISC/NOZILE REPORT 2-0495 RS-W-10 DISC/NOZILE REPORT 2-0495 RS-W-10 DISC/NOZILE REPORT 2-0496 RS-W-10 DISC/NOZILE REPORT 2-0496 RS-W-10 DISC/NOZILE REPORT 2-0497 RS-W-10 DISC/NOZILE REPORT 2-0498 RILY STERN DRIFY WIRES RS-S29-13, RS-S30-12 Piping RP90 Summary Report 2-0498 RILY STERN DRIFY WIRES RS-S29-13, RS-S30-12 Piping RP90 Summary Report 2-0490 FSLW-17-17/1/12 Values PR90 Summary Report 2-0500 FSLW-17-17/1/12 Values PR90 Summary Report 2-0500 REPORT VAILE REPORT 2-0501 RSC-W-17/1/1/12 Values PR90 Summary Report 2-0512 Cla-W-18 Value PR90 Summary Report 2-0513 RSC-W-1-15 Value PR90 Summary Report 2-0514 Blind Flange in place of Cla-PLI Piping RP90 Summary Report 2-0515 RSC-W-1-15 Value PR90 Summary Report 2-0516 RSC-W-1-15 Summary Report 2-0517 Summary Report PR90 Summary Report 2-0518 DC-T-W-11 Piping RP90 Summary Report 2-0519-1 Spacer ring for STW-2115 Piping RP90 Summary Report 2-0510-1 Spacer ring for STW-2115 Piping RP90 Summary Report 2-0511-1 Spacer ring for STW-2115 Piping RP90 Summary Report 2-0511-1 Spacer ring for STW-2116 Piping RP90 Summary Report 2-0511-1 Spacer ring for STW-2116 Piping RP90 Summary Report 2-0511-1 Spacer ring for STW-2116 Piping RP90 Summary Report 2-0511-1 Spacer ring for STW-2116 Piping RP90 Summary Report 2-0511-1 Spacer ring for STW-2116 Piping RP90 Summary Report 2-0511 Summary Report Value and support RP90 Summary Report 2-0512 Summary Report Value and support RP90 Summary Report 2-0513 Replace Cla screws for inst. support Value and support RP90 Summary Report 2-0513 Replace Cla screws for inst. support Piping RP90 Summary Report 2-0514 Replace bolting for EDR-TI-18 Piping RP90 S	2-0477	notive the actor cop-0-1	Pinina	-
2-0489   RS-NACE DISC/NOZLES IN SPARE MARY   Selief Valve   RF901 Summary Report				• •
2-0490 KS-37-16 DISC/SOZZLS Relief Valve SP90. Summary Report 2-0491 KS-37-16 DISC/SOZZLS Relief Valve SP90. Summary Report 2-0492 KS-37-10 DISC/SOZZLS Relief Valve SP90. Summary Report 2-0493 KS-37-10 DISC/SOZZLS Relief Valve SP90. Summary Report 2-0494 KS-37-10 DISC/SOZZLS Relief Valve SP90. Summary Report 2-0495 KS-37-10 DISC/SOZZLS Relief Valve SP90. Summary Report 2-0500 FS2-1-1771/1 and FS2-7-1711/2 Palves PS90. Summary Report 2-0500 FS2-1-1771/1 and FS2-7-1615 and 1628 Piping SP90. Summary Report 2-0500 FS2-1-171/2 Relief FS-12 Piping SP90. Summary Report 2-0511 CIL-7-15 Palves PS90. Summary Report 2-0512 CIL-7-15 Valve SP90. Summary Report 2-0513 CIC-7-45 Palves PS90. Summary Report 2-0514 Billed Flange in place of CiL-FLI Piping SP90. Summary Report 2-0515 Summary Report 2-0516 Summary Report PS90. Summary Report 2-0517 Specer ring for ST-7-1711/2 Summary Report 2-0518 DC-11-12 PS90. Summary Report 2-0519-1 Spacer ring for ST-7-116 Piping FS90. Summary Report 2-0519-1 Spacer ring for ST-7-116 Piping PS90. Summary Report 2-0519-1 Spacer ring for ST-7-116 Piping PS90. Summary Report 2-0514-1 Spacer ring for ST-7-116 Piping PS90. Summary Report 2-0514-1 Spacer ring for ST-7-116 Piping PS90. Summary Report 2-0514-2 Spacer ring for ST-7-116 Piping PS90. Summary Report 2-0514-2 Spacer ring for ST-7-116 Piping PS90. Summary Report 2-0514-1 Spacer ring for ST-7-116 Piping PS90. Summary Report 2-0514-2 Spacer ring for ST-7-116 Piping PS90. Summary Report 2-0515 Spoot for PI(II)-45-1424 Palve PS90. Summary Report 2-0516 PS90. Summary Report P				
2-0491   MS-TV-28 DISC/FOURLE   Relief Valve   RF901 Summary Report				
2-0492   NS-EV-ID DISC/NOZIES   Delief Valve   1790   Suzuary Deport				
2-0633   MS-2Y-3A DISC/FORLES   Relief Valve   Report				
2-0494				
2-0495   RS-EV-CO DISCINOLES   Relief Valve   RF904 Summary Report    -0498   MAIN STEAN PARIN LINES KS-529-13, KS-530-12   Piping   RF904 Summary Report    -0498   RAIN STEAN PARIN LINES KS-529-13, KS-530-12   Piping   RF904 Summary Report    -0506   Rodify drain line REE-7-161B and 162B   Piping   RF904 Summary Report    -0509   REE-745-1.2 and REE-FE-12   Piping   RF904 Summary Report    -0519   CL4-7-11B   RCIC-V-45   Valve   RF904 Summary Report    -0511   RCIC-V-45   Valve   RF904 Summary Report    -0514   Blind flauge in place of Cl4-PLI   Piping   RF904 Summary Report    -0514   Blind flauge in place of Cl4-PLI   Reat exchanger   RF904 Summary Report    -0514   Blind flauge in place of Cl4-PLI   Reat exchanger   RF904 Summary Report    -0514   Report for PS2-V-1712/2   Report    -0515   Support for PS2-V-1712/2   Support   RF904 Summary Report    -0520   Support for PS2-V-1716   Piping   RF904 Summary Report    -0521-1   Spacer ring for SV-V-116   Piping   RF904 Summary Report    -0521-2   Spacer ring for SV-V-116   Piping   RF904 Summary Report    -0524-1   Spacer ring for SV-V-116   Piping   RF904 Summary Report    -0524-2   Spacer ring for SV-V-116   Piping   RF904 Summary Report    -0524-2   Spacer ring for SV-V-116   Piping   RF904 Summary Report    -0524-3   Spacer ring for SV-V-116   Piping   RF904 Summary Report    -0525   Fibricate and replace plug KS-TL-2C   Tamb   RF904 Summary Report    -0526   Support for PT(11)-45-R54   Paint   RF904 Summary Report    -0527   PS-TL-265 and support   Valve and support   RF904 Summary Report    -0528   Replace Cap screws for inst. support   Support   RF904 Summary Report    -0530   Replace Cap screws for inst. support   Support   RF904 Summary Report    -0531   Replace Cap screws for inst. support   Piping   RF904 Summary Report    -0532   Replace Dolting for Summary Report    -0533   Replace Cap screws for inst. support   Piping   RF904 Summary Report    -0533   Replace Dolting for Summary Report    -0544   Replace Dolting for Summary Report    -0545   Re				
1-0498   MAIN STEAM ORALY LINES KS-529-13, KS-530-12   Piping				
2-0501   FSL-T-1771/1 and FSL-T-1711/2   Yalves   FF901 Suzzary Report				· -
2-0506   Modify drain line RER-7-161B and 162B   Piping   P501 Summary Report				
2-0509   REV-745-1.2 and REV-7E-12   Piping   REFOL Sureary Report				
2-0512   CIL-Y-31B   Valve   SF901 Sumary Report				
2-0513   SCIC-V-45   Valve   RF901 Sumary Report    -0514   Blind flange in place of CIA-PLI   Piping   RF901 Sumary Report    -0518   DCV-H-112   Beat exchanger   RF901 Sumary Report    -0519   Support for PSR-V-1711/2   Support   RF901 Sumary Report    -0520   Support for PSR-V-1711/2   Piping   RF901 Sumary Report    -0521-1   Spacer ring for SY-V-214   Piping   RF901 Sumary Report    -0521-2   Spacer ring for SY-V-216   Piping   RF901 Sumary Report    -0524-1   Spacer ring for SY-V-216   Piping   RF901 Sumary Report    -0524-2   Spacer ring for SY-V-216   Piping   RF901 Sumary Report    -0524-2   Spacer ring for SY-V-216   Piping   RF901 Sumary Report    -0524-3   Spacer ring for SY-V-216   Piping   RF901 Sumary Report    -0525   Fibricate and replace plag MS-TM-2C   Tank   RF901 Sumary Report    -0526   Support for PI(11-45-1824   Tank   RF901 Sumary Report    -0527   PIP-1265 and Support   Valve and Support   RF901 Sumary Report    -0528   PIP-1265 and Support   Valve and Support   RF901 Sumary Report    -0530   CIA-V-601   Valve   RF901 Sumary Report    -0531   Replace Cap screws for inst. support   Support   RF901 Sumary Report    -0531   Replace Cap screws for inst. support   Support   RF901 Sumary Report    -0531   Replace Sumary Report   Report   RF901 Sumary Report    -0531   Replace Sumary Report   Piping   RF901 Sumary Report    -0531   Replace Sumary Report   Piping   RF901 Sumary Report    -0532   Replace Sumary Report   Piping   RF901 Sumary Report    -0533   Replace Sumary Report   Piping   RF901 Sumary Report    -0534   Replace Sumary Report   Piping   RF901 Sumary Report    -0540   Inst. flanges for CIA supply lines to MSRY   Piping   RF901 Sumary Report    -0541   Replace Sumary Report   Piping   RF901 Sumary Report    -0542   Replace Sumary Report   Piping   RF901 Sumary Report    -0543   Replace Sumary Report   Piping   RF901 Sumary Report    -0544   RF904 Sumary Report   Piping   RF901 Sumary Report    -0545   Replace Sumary Report   Piping   RF901 Sumary Report    -0546   RCIC-T-3 and				
1-0514				
2-0518 DCY-H-1A2 Best exchanger EF90A Summary Report 2-0520 Support for PSR-Y-1771/2 Support PF90A Summary Report 2-0520-1 Spacer ring for SY-Y-214 Piping PF90A Summary Report 2-0521-1 Spacer ring for SY-Y-215 Piping PF90A Summary Report 2-0521-2 Spacer ring for SY-Y-216 Piping PF90A Summary Report 2-0524-1 Spacer ring for SY-Y-216 Piping PF90A Summary Report 2-0524-2 Spacer ring for SY-Y-217 Piping PF90A Summary Report 2-0525 Fabricate and replace plug MS-TE-2C Tanh PF90A Summary Report 2-0525 Support for PI(1)-4S-E82d Pabing PF90A Summary Report 2-0525 Support for PI(1)-4S-E82d Pabing PF90A Summary Report 2-0529 PS-Y2-265 and support Palve RF90A Summary Report 2-0529 PS-Y2-265 and support PS90A Summary Report 2-0530 CIA-Y-60A Palve PF90A Summary Report 2-0531 Replace Cap screvs for inst. support Support PF90A Summary Report 2-0533 Replace Cap screvs for inst. support Support PF90A Summary Report 2-0535 PFCS-2Y-14 spring steps Pelief valve Pf90A Summary Report 2-0536 LPCS-RY-31 spring steps Pelief valve Pf90A Summary Report 2-0537 Install flex hose REF-FLI-2A Piping Pf90A Summary Report 2-0538 Install flex hose REF-FLI-2B Piping Pf90A Summary Report 2-0539 Install flex hose REF-FLI-2C Piping Pf90A Summary Report 2-0540 Inst. Flanges for CIL supply lines to MSRY Piping Pf90A Summary Report 2-0541 Replace bolting for SD2-FL-4B Pinh Piping Pf90A Summary Report 2-0542 Replace bolting for SD2-FL-4B Pinh Pf90A Summary Report 2-0543 Replace bolting for SD2-FL-4B Pinh Pf90A Summary Report 2-0544 RPCS-Y-6 Pf2-TL-9 Pinh Pf90A Summary Report 2-0545 Replace bolting for SD2-FL-4B Pinh Pf90A Summary Report 2-0546 RPCS-Y-3 and RCIC-Y-3 Pf2-TL-9 Pinh Pf90A Summary Report 2-0546 RPCS-Y-3 and RCIC-Y-4 Piping Pf90A Summary Report				
2-0520 Support for PS2-Y-1712/2  2-0523-1 Spacer ring for SY-Y-214 Piping RF901 Summary Report 2-0523-1 Spacer ring for SY-Y-215 Piping RF901 Summary Report 2-0523-2 Spacer ring for SY-Y-216 Piping RF901 Summary Report 2-0524-2 Spacer ring for SY-Y-217 Piping RF901 Summary Report 2-0524-2 Spacer ring for SY-Y-217 Piping RF901 Summary Report 2-0525 Fabricate and replace plug MS-TE-2C Tank RF901 Summary Report 2-0525 Support for PI(1)-45-1824 Tabing RF901 Summary Report 2-0525 Support for PI(1)-45-1824 Tabing RF901 Summary Report 2-0529 7S-VI-265 and support Valve and support RF901 Summary Report 2-0530 CIA-Y-601 Yalve RF901 Summary Report 2-0531 Replace Cap screws for inst. support Support RF901 Summary Report 2-0531 RF902-2V-14 spring steps Relief valve F001 Summary Report 2-0535 SPCS-2V-14 spring steps Relief valve F001 Summary Report 2-0536 LPCS-RV-31 spring steps Relief valve RF901 Summary Report 2-0537 Install flex hose RRR-F61-2A Piping RF901 Summary Report 2-0538 Install flex hose RRR-F61-2B Piping RF901 Summary Report 2-0539 Install flex hose RRR-F61-2C Piping RF901 Summary Report 2-0540 Inst. Flampes for CIA supply lines to MSRV Piping RF901 Summary Report 2-0541 Replace bolting for SDR-TE-4B Fank RF901 Summary Report 2-0541 Replace bolting for SDR-TE-4B Fank RF901 Summary Report 2-0542 Replace bolting for SDR-TE-4B Fank RF901 Summary Report 2-0543 Replace Bolting for SDR-TE-4B Fank RF901 Summary Report 2-0544 RPCS-Y-6 Valve RF901 Summary Report 2-0545 Replace 2CIC-Y-39 Valve RF901 Summary Report 2-0546 RCIC-T-3 and RCIC-T-4				
2-0523-1   Spacer ring for SY-Y-214   Piping   RF901 Sumary Report				
2-0523-2 Spacer ring for SW-Y-215 Piping RF901 Summary Report 2-0524-1 Spacer ring for SW-Y-216 Piping RF901 Summary Report 2-0524-2 Spacer ring for SW-Y-217 Piping RF902 Summary Report 2-0525 Fabricate and replace plug MS-TE-2C Tank RF901 Summary Report 2-0525 Support for Pf(1)-45-182d Tahing RF902 Summary Report 2-0526 Support for Pf(1)-45-182d Tahing RF903 Summary Report 2-0529 75-Y2-65 and support Valve and support RF903 Summary Report 2-0530 C1A-Y-601 Valve RF903 Summary Report 2-0531 Replace Cap screws for inst. support Support RF903 Summary Report 2-0535 RFCS-RY-14 spring steps Relief valve Vork Completed 2-0536 LFCS-RY-31 spring steps Relief valve RF903 Summary Report 2-0537 Install flex hose RER-FLI-2A Piping RF903 Summary Report 2-0538 Install flex hose RER-FLI-2B Piping RF903 Summary Report 2-0539 Install flex hose RER-FLI-2C Piping RF903 Summary Report 2-0539 Install flex hose RER-FLI-2C Piping RF903 Summary Report 2-0540 Inst. Flanges for CIL supply lines to MSRY Piping RF904 Summary Report 2-0541 Replace bolting for SDR-FE-4A Fank RF903 Summary Report 2-0542 Replace bolting for SDR-FE-4B Tank RF903 Summary Report 2-0543 Replace bolting for SDR-FE-4B Tank RF903 Summary Report 2-0543 Replace bolting for SDR-FE-4B Tank RF903 Summary Report 2-0545 Replace bolting for FDR-FE-9 Yalve RF904 Summary Report 2-0545 Replace 2CIC-Y-39 Yalve RF904 Summary Report 2-0546 RCIC-T-3 and RCIC-T-4				
2-0524-1 Spacer ring for SY-Y-116 Piping RF901 Summary Report 2-0524-2 Spacer ring for SY-Y-217 Piping RF901 Summary Report 2-0525 Fabricate and replace plug MS-TE-2C Tank RF901 Summary Report 2-0526 Support for PI(1)-45-182d Tabing RF901 Summary Report 2-0529 PS-YE-265 and support Valve and support RF901 Summary Report 2-0530 C1A-Y-601 Valve RF901 Summary Report 2-0531 Replace Cap screws for inst. support Support RF901 Summary Report 2-0535 PPCS-RY-14 spring steps Relief valve Vork Completed 2-0536 LPCS-RY-31 spring steps Relief valve Pr901 Summary Report 2-0537 Install flex hose RER-FEI-21 Piping RF901 Summary Report 2-0538 Install flex hose RER-FEI-2B Piping RF901 Summary Report 2-0539 Install flex hose RER-FEI-2C Piping RF901 Summary Report 2-0539 Install flex hose RER-FEI-2C Piping RF901 Summary Report 2-0540 Inst. Flanges for CIL supply lines to MSRY Piping RF901 Summary Report 2-0541 Replace bolting for SDR-FE-4B Pank RF901 Summary Report 2-0542 Replace bolting for SDR-FE-4B Pink RF901 Summary Report 2-0543 Replace bolting for SDR-FE-4B Pink RF901 Summary Report 2-0544 Replace bolting for SDR-FE-4B Pink RF901 Summary Report 2-0545 Replace bolting for FDR-FE-4B Pink RF901 Summary Report 2-0545 Replace bolting for FDR-FE-9 Pink RF901 Summary Report 2-0545 Replace 2CIC-Y-39 Pink RF901 Summary Report 2-0546 RCIC-T-3 and RCIC-T-4				* -
2-0524-2   Spacer ring for SV-V-217   Piping   IF901   Sunmary Report				
2-0525 Fabricate and replace plug MS-TI-2C Tank RF901 Surmary Report 2-0526 Support for PI(1)-4S-182d fabing RF901 Surmary Report 2-0529 7S-VI-265 and support Valve and support RF901 Surmary Report 2-0530 CIA-7-601 Yalve RF901 Surmary Report 2-0533 Replace Cap screws for inst. support Support RF901 Surmary Report 2-0535 MFCS-RV-14 spring steps Relief valve York Coapleted VIS-2 Wot Issued 2-0536 LPCS-RV-31 spring steps Relief valve RF901 Surmary Report 2-0537 Install flex hose RRE-FLI-2A Piping RF901 Surmary Report 2-0538 Install flex hose RRE-FLI-2B Piping RF901 Surmary Report 2-0539 Install flex hose RRE-FLI-2C Piping RF901 Surmary Report 2-0540 Inst. flanges for CIA supply lines to MSRV Piping RF901 Surmary Report 2-0541 Replace bolting for SDR-TI-4B Tank RF901 Surmary Report 2-0542 Replace bolting for SDR-TI-4B Tank RF901 Surmary Report 2-0543 Replace bolting for SDR-TI-4B Tank RF901 Surmary Report 2-0544 HPCS-V-6 Yalve RF901 Surmary Report 2-0545 Replace 2CIC-V-39 Yalve RF901 Surmary Report 2-0546 RCIC-T-3 and RCIC-T-4				
2-0526 Support for PI(1)-45-182d Tabing 2F901 Summary Report 2-0529 7S-VI-265 and support Valve and support 2F901 Summary Report 2-0530 CIA-V-601 Yalve 2F901 Summary Report 2-0533 Replace Cap screvs for inst. support Support 2F901 Summary Report 2-0535 SPCS-RV-14 spring steps Relief valve York Completed 3-0536 LPCS-RV-31 spring steps Relief valve 2F901 Summary Report 2-0537 Install flex hose RRR-FLI-21 Piping 2F901 Summary Report 2-0538 Install flex hose RRR-FLI-2B Piping 2F901 Summary Report 2-0539 Install flex hose RRR-FLI-2C Piping 2F901 Summary Report 2-0540 Inst. flanges for CII supply lines to MSRV Piping 2F901 Summary Report 2-0541 Replace bolting for EDR-FK-41 Tank 2F901 Summary Report 2-0542 Replace bolting for EDR-FK-4B Tank 2F901 Summary Report 2-0543 Replace bolting for FDR-FK-4B Tank 2F901 Summary Report 2-0544 HPCS-V-6 Yalve RP901 Summary Report 2-0545 Replace 2CIC-V-19 Yalve RP901 Summary Report 2-0546 RCIC-T-3 and RCIC-T-4				
2-0529 PS-VI-265 and support Valve and support RF901 Surary Report 2-0530 CIA-7-601 Valve RF901 Surary Report 2-0533 Replace Cap screws for inst. support Support RF901 Surary Report 2-0535 SPCS-RV-14 spring steps Relief valve Vork Completed WIS-2 Not Issued 2-0536 LPCS-RV-31 spring steps Relief valve RF901 Surary Report 2-0537 Install flex hose RRR-FLI-21 Piping RF901 Surary Report 2-0538 Install flex hose RRR-FLI-2B Piping RF901 Surary Report 2-0539 Install flex hose RRR-FLI-2C Piping RF901 Surary Report 2-0540 Inst. flanges for CIA supply lines to MSRV Piping RF901 Surary Report 2-0541 Replace bolting for SDR-FL-4A Tank RF901 Surary Report 2-0542 Replace bolting for SDR-FL-4B Tank RF901 Surary Report 2-0543 Replace bolting for FDR-FL-9 Tank RF901 Surary Report 2-0544 HPCS-T-6 Valve RF901 Surary Report 2-0545 Replace 2CIC-Y-39 Valve RF901 Surary Report 2-0546 RCIC-T-3 and RCIC-T-4				
2-0530 CIA-7-601 Yalve RF901 Suzzary Report 2-0533 Replace Cap screws for inst. support Support RF901 Suzzary Report 2-0535 RFCS-2V-14 spring steps Relief valve York Completed YIS-2 Yot Issued 2-0536 LPCS-RV-31 spring steps Relief valve RF901 Suzzary Report 2-0537 Install flex hose RRR-FLI-21 Piping RF901 Suzzary Report 2-0538 Install flex hose RRR-FLI-2B Piping RF901 Suzzary Report 2-0539 Install flex hose RRR-FLI-2C Piping RF901 Suzzary Report 2-0540 Inst. flanges for CIA supply lines to MSRV Piping RF901 Suzzary Report 2-0541 Replace holting for EDR-FL-4A Tank RF901 Suzzary Report 2-0542 Replace bolting for EDR-FL-4B Tank RF901 Suzzary Report 2-0543 Replace bolting for FDR-FL-9 finh RF901 Suzzary Report 2-0544 HPCS-T-6 Yalve RF901 Suzzary Report 2-0545 Replace 2CIC-T-39 Yalve RF901 Suzzary Report 2-0546 RCIC-T-3 and RCIC-T-4				RE90A Summary Report
2-0533 Replace Cap screws for inst. support 2-0535 PFCS-RV-14 spring steps Relief valve Vork Completed VIS-2 Not Issued 2-0536 LPCS-RV-31 spring steps Relief valve RF901 Summary Report 2-0537 Install flex hose RBR-FLX-2A Piping RF903 Summary Report 2-0538 Install flex hose RBR-FLX-2B Piping RF904 Summary Report 2-0539 Install flex hose RBR-FLX-2C Piping RF905 Summary Report 2-0540 Inst. flanges for CIA supply lines to MSRV Piping RF905 Summary Report 2-0541 Replace bolting for EDR-FK-4A Tank RF904 Summary Report 2-0542 Replace bolting for EDR-FK-4B Tank RF905 Summary Report 2-0543 Replace bolting for EDR-TK-4B Tank RF906 Summary Report 2-0544 HPCS-V-6 Valve RF901 Summary Report 2-0545 Replace 2CIC-V-39 Valve RF901 Summary Report 2-0546 RCIC-T-3 and RCIC-T-4		**		RF90A Suzeary Report
2-0535 SPCS-RV-14 spring steps 2-0536 LPCS-RV-31 spring steps 2-0537 Install flex hose RRR-FbI-2h Piping RF90h Summary Report 2-0538 Install flex hose RRR-FbI-2B Piping RF90h Summary Report 2-0539 Install flex hose RRR-FbI-2C Piping RF90h Summary Report 2-0540 Inst. flanges for CIL supply lines to MSRV Piping RF90h Summary Report 2-0541 Replace bolting for EDR-FbI-4h Fank RF90h Summary Report 2-0542 Replace bolting for SDR-FbI-4B Tank RF90h Summary Report 2-0543 Replace bolting for FDR-FbI-9 Tank RF90h Summary Report 2-0544 HPCS-V-6 Valve RF90h Summary Report 2-0545 Replace 2CIC-V-39 Valve RF90h Summary Report 2-0546 RCIC-T-3 and RCIC-T-4			Support	RF901 Summary Report
2-0536 LPCS-RV-31 spring steps Relief valve RF901 Sunzary Report 2-0537 Install flex hose RER-FLI-2E Piping RF901 Sunzary Report 2-0538 Install flex hose RER-FLI-2B Piping RF901 Sunzary Report 2-0539 Install flex hose RER-FLI-2C Piping RF901 Sunzary Report 2-0540 Inst. flanges for CIA supply lines to MSRV Piping RF901 Sunzary Report 2-0541 Replace bolting for EDR-FL-4A Fank RF901 Sunzary Report 2-0542 Replace bolting for SDR-FL-4B Tank RF901 Sunzary Report 2-0543 Replace bolting for FDR-FL-9 Fank RF901 Sunzary Report 2-0544 HPCS-V-6 Valve RF901 Sunzary Report 2-0545 Replace 2CIC-V-39 Valve RF901 Sunzary Report 2-0546 RCIC-T-3 and RCIC-F-4			Relief valve	York Completed
2-0537 Install flex hose RHR-FLX-2A Piping RF90A Summary Report 2-0538 Install flex hose RHR-FLX-2B Piping RF90A Summary Report 2-0539 Install flex hose RHR-FLX-2C Piping RF90A Summary Report 2-0540 Inst. flanges for CIA supply lines to MSRV Piping RF90A Summary Report 2-0541 Replace bolting for EDR-FK-4A Tank RF90A Summary Report 2-0542 Replace bolting for EDR-FK-4B Tank RF90A Summary Report 2-0543 Replace bolting for FDR-FK-9 Fink RF90A Summary Report 2-0544 HPCS-V-6 Valve RF90A Summary Report 2-0545 Replace 2CIC-V-39 Valve RF90A Summary Report 2-0546 RCIC-T-3 and RCIC-F-4 Piping RF90A Summary Report	• • • • • • • • • • • • • • • • • • • •			VIS-2 Not Issued
2-0537 Install flex hose RER-FLI-21 Piping RF901 Summary Report 2-0538 Install flex hose RER-FLI-2B Piping RF901 Summary Report 2-0539 Install flex hose RER-FLI-2C Piping RF901 Summary Report 2-0540 Inst. flanges for CI1 supply lines to MSRV Piping RF901 Summary Report 2-0541 Replace bolting for EDR-FL-41 Tank RF901 Summary Report 2-0542 Replace bolting for EDR-FL-4B Tank RF901 Summary Report 2-0543 Replace bolting for EDR-FL-9 Finh RF901 Summary Report 2-0544 HPCS-V-6 Valve RF901 Summary Report 2-0545 Replace 2CIC-V-39 Valve RF901 Summary Report 2-0546 RCIC-T-3 and RCIC-F-4 Piping RF901 Summary Report	2-0536	LPCS-RV-31 spring steps	Relief valze	RF90A Szezery Report
2-0538 Install flex hose RER-FLX-2B Piping RF901 Sunmary Report 2-0539 Install flex hose RER-FLX-2C Piping RF901 Sunmary Report 2-0540 Inst. flanges for CIA supply lines to MSRV Piping RF901 Sunmary Report 2-0541 Replace bolting for EDR-FK-4A Fank RF901 Sunmary Report 2-0542 Replace bolting for SDR-FK-4B Tank RF901 Sunmary Report 2-0543 Replace bolting for FDR-FK-9 Fink RF901 Sunmary Report 2-0544 HPCS-V-6 Valve RF901 Sunmary Report 2-0545 Replace 2CIC-V-39 Valve RF901 Sunmary Report 2-0546 RCIC-T-3 and RCIC-F-4 Piping RF901 Sunmary Report			Piping	RF90A Summary Report
2-0539 Install flex hose RER-FLI-2C Piping RF901 Surmary Report 2-0540 Inst. flanges for CI1 supply lines to MSRV Piping RF901 Surmary Report 2-0541 Replace bolting for EDR-FK-4A Tank RF901 Surmary Report 2-0542 Replace bolting for EDR-FK-4B Tank RF901 Summary Report 2-0543 Replace bolting for FDR-FK-9 Fink RF901 Surmary Report 2-0544 HPCS-Y-6 Yalve RF901 Summary Report 2-0545 Replace RCIC-Y-39 Yalve RF901 Summary Report 2-0546 RCIC-T-3 and RCIC-F-4 Piping RF901 Summary Report			Piping	• •
2-0541         Replace bolting for EDR-FE-4A         Tank         RF90A Sugmary Report           2-0542         Replace bolting for EDR-FE-4B         Tank         RF90A Sugmary Report           2-0543         Replace bolting for EDR-FE-9         fink         RF90A Sugmary Report           2-0544         HPCS-Y-6         Yalve         RF90A Sugmary Report           2-0545         Replace 2CIC-Y-39         Yalve         RF90A Sugmary Report           2-0546         RCIC-T-3 and RCIC-Y-4         Piping         RF90A Sugmary Report		Install flex hose RER-FLY-2C	Piping	
2-0542       Replace bolting for SDR-TK-4B       Tank       RF90A Sunmary Report         2-0543       Replace bolting for FDR-TK-9       fink       RF90A Sunmary Report         2-0544       HPCS-Y-6       Yalve       RF90A Sunmary Report         2-0545       Replace RCIC-Y-39       Yalve       RF90A Sunmary Report         2-0546       RCIC-T-3 and RCIC-Y-4       Piping       RF90A Sunmary Report	2-0540	Inst. flanges for CIA supply lines to MSRV		
2-0543         Replace bolting for FD2-TE-9         fink         RF90A Surmary Report           2-0544         HPCS-V-6         Valve         RF90A Surmary Report           2-0545         Replace 2CIC-V-39         Valve         RF90A Surmary Report           2-0546         RCIC-T-3 and RCIC-Y-4         Piping         RF90A Surmary Report	2-0541	Replace bolting for EDR-TK-4A		
2-0544         HPCS-Y-6         Yalve         RF901 Summary Report           2-0545         Replace RCIC-Y-39         Yalve         RF901 Summary Report           2-0546         RCIC-T-3 and RCIC-Y-4         Piping         RF901 Summary Report				
2-0545 Replace 2CIC-Y-39 Yalve RF90A Suggary Report 2-0546 RCIC-T-3 and RCIC-T-4 Piping RF90A Suggary Report				
2-0546 RCIC-T-3 and RCIC-T-4 Piping RF901 Suzmary Report				
and a second		•		
2-0547 Support for ARC-P-1A seal staging piping Piping Piping RF90A Support				
	2-0547	Support for ARC-P-1A seal staging piping	Fiping	KEANY PERMITA ZEBOLE

# APPENDIX C ASKE SECTION XI REPAIR/REPLACEMENT LISTING FOR THY-2

PLAN or AVR NO.	COMPONENT IDENT. NO. 2md/or TORK DESCRIPTION	DESCRIPTION CONFOUND	IN SOUNTLY DESOFT. TELOFIED
2-0548	Support for RRC-7-1B seal staging piping	?iping	AF90A Semmary Report
2-0551	Lap joint flange for RHR-V-30	fiping	REPOR SURRELY Report
2-0552	Replace Saubbers with rigid strut	Sapports	RF90A Samary Report
2-0553	RER-RV-30 and RER(()-1	Relief valve and Piping	RF90A Surmary Report
2-0554	MS-Y-22B	Valve .	REGOA SURRACY Report
2-0555	XS-Y-22C	<b>Valve</b>	RF901 Summary Report
2-0556	XS-V-28B	Valve	AF90A Survary Report
2-0557	XS-Y-28C	Yalve	RF90A Summary Report
2-0562	Replace MS-RY-1D	Piping	RF904 Summary Report
2-0563	Replace XS-RY-3D	Piping	RESOL SURBARY Report
2-0564	MS-RV-1A disc/nozzle	Relief Valve	REGOA Surrary leport
2-0565	NS-RV-21 disc/nozzle	Reiiei Valve	REPOR SERRALY Report
2-0566	NS-RV-3B disc/aozzle	Relief Yalve	AF90A Saarary leport
2-0567	MS-RV-3C disc/nozzle	Reliei Valve	RF90A Summary Report
2-0568	MS-27-4B disc/nozzle	Relief Valve	RESOL Suggery legort
2-0569	MS-AV-5B disc/nozzle	Relief Valve	RF90A Semmary Report
2-0570	SLC-V-43	<b>Valve</b>	AF90A Sunaary Report
2-0573	Install mipple for FPC-V-603	Piping	RF901 Summary Report
2-0574	Replace Rech seal for REC-7-1A	Pasp	RE90A Sunmary Report
2-0576	Replace nuts for RER-Y-241	Yal 7e	REGOA Sammary Report
2-0577	Replace nuts for RER-V-24B	7a17e	AF90A Suggary Seport
2-0578	Replace CIA-V-21	Piping	REGOL SERRALT Report
2-0579	Replace CIA-V-31A	Piping	RESOL Survey Report
2-0580	Replace CIA-7-31B	fiping	REGOL SURRARY Report
2-0581	Replace CIA-V-41A	liping	REGOA Survey Report
2-0582	Replace CIA-V-41B	Piping	REPOA SURRALT Report
2-0583	PSR-V-1771/1	Yalve	RF90A Sunmary Report
2-0584	PSR-Y-1771/2 .	Yalre .	REGOA Sammary Report
2-0585	?\$ <b>2-</b> 9- <b>1</b> 77 <b>1</b> /3	Valve .	AF901 Sunnary Report
2-0586	PSR-V-1771/4	<b>Val</b> re	REPOA Surmary Report
2-0587	PI-V-1365	Valte	REGOA Sammery Report
2-0590	EPCS-Y-23	<b>Val</b> 7e	RF90A Sugmary Report
2-0591	Replace Snubbers with rigid strats	Sapports	RF90A Summary Report
3-0592	RER-BI-28 Seal cooler piping	Zeat exchanger	EF901 Strazry Report
2-0593	?I(1)-4S-172f and ?I-5FC-172f	Tubiug/ valve	RF90A Swarary leport
2-0594	RHR-HI-1B	Heat Exchanger	RF90A Sunnary Report
2-0595	Replace stem/disc for BPCS-V-84	<b>Valte</b>	RF901 Squarry Report
2-0596	RVCU-V-1 leak off coan seal weld	Yalve	RF901 Surmary Report
2-0597	332-7-248 replace leak off comm pipe plmg	7a17e	RF901 Surmary Report
2-0598	NS-RV-3A disc/nozzle	Relief Valve	York Completed
			MIS-2 Not Issaei
2-0599	Replace stads nats for flange joint for CIA-FLI-IE	Piping	RF90L Surmary Report
2-0600	Replace studs nuts for flange joint for CSP-Y-2	7iping	REGOA Scamery Report
2-0604	Debris screen for I-53	<i>Piping</i>	REPOL SERRERY Report
2-0605	Remove and cap pressure transducer MS-530-11C line	?ìpiag	arong Samary Japore
2-0606	Studs and nuts for LPCS-RY-31	Piping	Tork Completed
		_	MIS-2 Not Issuei
2-0607	C2D-Y-102	Valve	REPOR Surrary Report
2-0608	ES-Y-120A	<b>Vaire</b>	REGOT SIMMALA TEDOLC
2-0609	· CRD-Y-101	7al re	RF90A Surmary leport



### APPENDIX C ASHE SECTION II REPAIR/REPLACEMENT LISTING FOR THP-2

PLAN or NIR 10.	COMPONENT IDENT. 10. and/or NORK DESCRIPTION	CONFOURT Descrippion	ERFRIR/REFLACEMENT REFORTED
2-9610	Install blind flange in place of ABR-2V-1B	Pipizg	RESOL Surgary Report
2-0611	Install blind flange in place of RER-RY-25B	Piping	RF90A Summary Report
2-0612	Install blind flange in place of 922-27-688	Piping	RESOL SERMATY REPORT
2-0613	RRC connections to RRC-V-504	Piping	RF90A Summary Report
2-0614	PI(1)-4S-175d & PI-EFC-175d	Tableg/Pipizg	RF90A Semmary Report
2-0615	Cracked pipe in RCIC line for dPIS 78 E31-M007	Pipizg	RF90A Summary Report
2-0622	Pipe cap for ES-TK-30	faak	AF90A Summary Report
2-0624	CIA-FUX-1C	Flex hose	RF90A Surmary Report
2-0625	CSP-Y-96	7ai	3F901 Starary Report
2-0526	RYCU-Y-2299	7217e	RF90A Summary Report
2-0527	Install blind flange in place of 27CU-27-2	Pipiag	REPOA SCREATY Report
15-2789/15-2790		Sapports	RE90A Summary Report
15 2790	Deleted Soubbers	Sapports	1901 Sugmary Report
15 2893	RPY	CID	RF901 Sugary Report
AS 2905	197	CRO	REGOL SURRELY Report
25 2907	RPY	CZD	RF901 Sammary Report
<b>1S 2908</b>	3PY	æ	AF90A Sammary Report
1S 2910	RPY	C37 ·	RE90A Suzmary Report
AS 2913	377	C20	REGOA Summary Report
AS 2914	277	CEB	17901 Sunary Report
AS 2917	227	CZD	AF90A Suzzary Report
18 2919	277	C29	RF901 Suzzary Report
AS 2920	854	CAD	REGOA Survery Report
AS 2924	277	CRD	RF90A Summary Report
LS 2925	277	CRD	AF90A Suzzary Report
AS 2926	RPY	CLD	RF90A Summary Report
AS 2930	227	CID	* RF90A SERMARY Report
15 4972	Deleted Sanbbers	Sapports	AF90A Surmary Report
15 5339	354	CAD	AF90A Summary Report
AT 8898	Deleted Soubbers	Sapports	RF90A Suzuary Report
BDC-55-1042-01	Changed Equipment Piece Numbers	Yal 7es	AF9CA Summary Report
BDC-88-0254-1B	Deleted Hanger	Sapport	RF901 Summary Report



#### PLAN NO.2-0354 AND 2-0354R1

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

1. Owner: Washington Public Power Supply System
Address: 3000 George Washington Way, Richland, WA

Date: 10/15/90 Sheet: 1 of 1 Unit: WNP-2

- 2. Plant: WPPSS Nuclear Power Plant (WNP)
- Address: Hanford, Benton County, WA
- 3.(a) Work Performed by: Bechtel Construction, Inc., PO Box 600, Richland, WA and WPPSS, 3000 George Washington Way, Richland, WA
  - (b) Repair Organization P.O. No., Job No., etc.: C20069 and WPPSS
- 4. Identification of System: Standby Liquid Control (SLC) and High Pressure Core Spray (HPCS) Systems
- 5. (a) Applicable Construction Code ASME Section III Code Class 1, 1971 Edition with Winter 1973 Addenda, Code Case: None
  - (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements:1980 Edition with Winter 1980 Addenda, Code Case: N-308
- 6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
SLC(2)-4S	WPPSS	SLC(2)-4S-P2	N/A	N/A	1982	Replacement	Yes, Code Class 1
HPCS(1)-4CL1	WPPSS	HPCS(1)-4CL1	N/A	N/A	1983	Replacement	Yes, Code Class 1

- 7. Description of Work: A) Plan No 2-0354 Work performed by Bechtel Construction, Inc. Modified Standby Liquid Control (SLC) System. The modification work was performed as follows:
  - 1) Cut and removed section of existing piping
  - 2) Performed PT examination on the prepped pipe, litting and valve ends. PT examination results acceptable
  - 3) Installed new pipe, fitting material and valves
  - 4) Made required socket and butt welds
- 5) Performed PT examination on the final socket and butt welds and RT examination on the final butt weld. PT and RT examination results acceptable
  - 6) Installed pipe cap on the spared line and made socket weld
  - 7) Performed PT examination on the final socket weld. PT examination results acceptable
  - 8) Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during pressure test

Note - ASME Code Class 2 carbon steel pipe piece was installed in lieu of Code Class 1. This pipe piece was upgraded to Code Class 1 under Plan No 2-0354R1

#### B) Plan No 2-0354R1 - Work performed by WPPSS

Upgraded carbon steel pipe piece between welds XI-13A and XI-19-1. The upgrading work was performed as follows:

- 1) Cut weld between the carbon steel pipe piece and the sockolet
- 2) Performed PT examination on the prepped sockolet socket end. PT examination results acceptable
- 3) Performed RT examination on the carbon steel pipe piece to upgrade the pipe piece to Code Class 1. RT examination results acceptable
- 4) Made carbon steel pipe piece to sockolet socket weld
- 5) Performed PT examination on the final socket weld. PT examination results acceptable
- 6) Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during pressure test

PLAN NO. 2-0354 AND 2-0354R1

	·
	FORM NIS-2 (Back)
8.	Tests Conducted: Hydrostatic X Pneumatic Nominal Operating Pressure Other  Test Pressure: 1130,1280 and 1300 Psig Test Temperature: 80,78 and 83 °F  Component Design Pressure: 1250 and 1400 Psig Temperature: 575 and 150 °F
9.	Remarks: See attached NPV-1 Code Data Reports for the following valves:  > SLC-V-42, Serial No 79092  > SLC-V-43, Serial No 79113  > Spared SLC line test pressure at 1130 psig and test temperature at 80 F, Plan No 2-0354  > New SLC line test pressure at 1280 psig and test temperature at 78 F, Plan No 2-0354
	> Upgraded SLC line test pressure at 1300 psig and test temperature at 83 F, Plan No 2-0354R1
	CERTIFICATE OF COMPLIANCE
	We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.  Type Code Symbol Stamp: Not applicable  Certificate Authorization No.: Not applicable  Expiration Date: Not Applicable
	Prepared by Guldih Luib Signed by Hant Technical Manager
	Date 10/15/90 Date 15 007 90
:	CERTIFICATE OF INSERVICE INSPECTION
	I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 4/22/47 to 10/12/40 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.  By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.  Commissions 956 W  National Board, State, and Endorsements  Date 10/15/90
	Date 10/15/90

# FORM NPV-1 N CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES\* As Required by the Provisions of the ASME Code, Section III, Div. 1

كفاك والمستحدث والمترونيون			
Manufactured by Mucles	r Valve Div., Borg Warner	7500 Tyrone Ave., V	an Nuys, Calif.
Manufactured for Johns	on Controls, Inc. P.O. I	30x 429, Richland, Was	hington · · 99352 ·
A) Haisellevel de deisee l	lame and Address of Purchaser or Owner nford #2 Jobsite, Richle	nd. Washington	)
	Yame and Addressi	· .	
Pump or ValveGLOD	e Valve	Inlet Size - 1 Ot	utlet Size linch)
(a) Model No (b) N	Certificate Holder's (c) Canadian	., " (inch)	a ta (men)
		(d) Drawing	(n Nat'l. (g) Year
or Type	Serial Registration No.	No. (e) Class	The term control of the tar
		• •	
1500#	79113	_106DCA1=004	N/A 1982
(2)	de ins is to de 2 1.400 to	hoppit is to the parts of some this or some or but the	7 - 20 - 17 - 17 - 17 - 17 - 17 - 17 - 17 - 1
(3)	<u> </u>	IL3	
(4)		10.00	T ••
(5)		Lewes	
(6)		11:4187	<del></del>
(8)		·	· · · · · · · · · · · · · · · · · · ·
(9)	SLC-V-43, .	8/N 79113	<del> </del>
(10)			pb 9111787.
(10)			
The velves are	designed to handle a fly	rid media which includ	es steam, water
	designed to handle a flu		
temperature pre	(Brief description of service for we service trating of the made 3600 psi 100.	lated with a PWR and Bi hich equipment was designed in is stated below.	The
temperature pre	(Brief description of service for we service tracting of the mad	lated with a PWR and Bi hich equipment was designed in is stated below.	WR. The
condensate, hore temperature presign Conditions (P) Cold Working Pressure — Pressure Retaining Pieces	(Brief description of service for washing of the mad 3600 psi 100	Inted with a PAR and Binish equipment was designed last a stated below.	N/A (1
temperature pre	(Brief description of service for we service trating of the made 3600 psi 100.	lated with a PWR and Bi hich equipment was designed in is stated below.	The
condensate, hore temperature presign Conditions (P) Cold Working Pressure (P) Pressure Retaining Pieces Mark No.  (a) Castings	(Brief description of service for we service Tating of the med 3600 psi (Temperature) psi at 100°F.  Material Spec. No.	Arted with a PAR and Brich equipment was designed last as stated below.  For Valve Pressure Class  Manufacturer	N/A (1
Design Conditions (Pressure Retaining Pieces  Mark No.	(Brief description of service for water rating of the mad.  3600 psi 100 .  (Brief description of service for water rating of the mad.  3600 psi 100 .  (Temperature) psi at 100°F.  Material Spec. No.	Manufacturer  Rex Precision	N/A (1
condensate, hore temperature presign Conditions (P) Cold Working Pressure (P) Pressure Retaining Pieces Mark No.  (a) Castings	(Brief description of service for we service rating of the mad.  3600 psi 100  (resture) Temperature)  Material Spec. No.  Colmonoy #4	Manufacturer  Rex Precision  Fig. 12. 12. 12. 12. 12. 12. 12. 12. 12. 12	N/A (1
condensate, hore temperature presign Conditions (P) Cold Working Pressure (P) Pressure Retaining Pieces Mark No.  (a) Castings	(Brief description of service for water rating of the mad.  3600 psi 100 .  (Brief description of service for water rating of the mad.  3600 psi 100 .  (Temperature) psi at 100°F.  Material Spec. No.	Manufacturer  Rex Precision  Rex Precision	N/A (1
condensate, hore temperature presign Conditions (P) Cold Working Pressure (P) Pressure Retaining Pieces Mark No.  (a) Castings	(Brief description of service for we searce rating of the made searce)    100	Manufacturer  Rex Precision  Fig. 12. 12. 12. 12. 12. 12. 12. 12. 12. 12	N/A (1
condensate, hore temperature presign Conditions (P) Cold Working Pressure (P) Pressure Retaining Pieces Mark No.  (a) Castings	(Brief description of service for we searce rating of the made searce)    100	Manufacturer  Rex Precision  Rex Precision	N/A (1
condensate, bor temperature pre Design Conditions  Cold Working Pressure Pressure Retaining Pieces  Mark No.  (a) Castings	(Brief description of service for we searce rating of the made searce)    100	Manufacturer  Rex Precision  Rex Precision	N/A (1
condensate, bor temperature pre Cosign Conditions  (P) Cold Working Pressure Pressure Retaining Pieces  Mark No.  (a) Castings	(Brief description of service for we searce rating of the made searce)    100	Manufacturer  Rex Precision  Rex Precision	N/A (1
condensate, bor temperature pre Cosign Conditions  (P) Cold Working Pressure Pressure Retaining Pieces  Mark No.  (a) Castings	(Brief description of service for we searce rating of the made searce)    100	Manufacturer  Rex Precision  Rex Precision	N/A (1
condensate, hore temperature presign Conditions (P) Cold Working Pressure (P) Pressure Retaining Pieces Mark No.  (a) Castings	(Brief description of service for we searce rating of the made searce)    100	Manufacturer  Rex Precision  Rex Precision	N/A (1
condensate, hor temperature presure Conditions	(Brief description of service for we searce rating of the made searce)    100	Manufacturer  Rex Precision  Rex Precision	N/A (1
condensate, hore temperature presign Conditions (P) Cold Working Pressure (P) Pressure Retaining Pieces Mark No.  (a) Castings	(Brief description of service for we searce rating of the made searce)    100	Manufacturer  Rex Precision  Rex Precision	N/A (1
condensate, hor temperature presure Conditions — (P) Cold Working Pressure — Pressure Retaining Pieces  Mark No.  (a) Castings Disc-Code 4W69	(Brief description of service for we searce rating of the made searce)    100	Manufacturer  Rex Precision  Rex Precision	N/A (1
condensate, hor temperature pre Design Conditions  Cold Working Pressure Pressure Retaining Pieces  Mark No.  (a) Castings Disc-Code 4W69	(Brief description of service for we searce rating of the made and service)  3600 psi 100  (Temperature)  psi at 100 f.  Material Spec. No.	Manufacturer  Rex Precision  Rex Precision	N/A (1
condensate, hor temperature pre Design Conditions  Cold Working Pressure Pressure Retaining Pieces  Mark No.  (a) Castings Disc-Code 4W69	(Brief description of service for we searce rating of the made and service)  3600 psi 100  (Temperature)  psi at 100 f.  Material Spec. No.	Manufacturer  Rex Precision  Rex Precision	N/A (1
condensate, hor temperature presure Conditions — (P) Cold Working Pressure — Pressure Retaining Pieces  Mark No.  (a) Castings Disc Code 4W69	(Brief description of service for we searce rating of the made searce	Manufacturer  Rex Precision  Kawaguchi	Remarks  Remarks
condensate, hore temperature presented present	(Brief description of service for we saure rating of the made of t	Manufacturer  Rex Precision  Rex Precision  Kawaguchi  Crucible/Ducommun	N/A (1
condensate, hore temperature presented present	(Brief description of service for we saure rating of the made of t	Manufacturer  Rex Precision  Rex Precision  Kawaguchi  Crucible/Ducommun	N/A (1
condensate, hore temperature presented present	(Brief description of service for we saure rating of the made of t	Manufacturer  Rex Precision  Rex Precision  Kawaguchi  Crucible/Ducommun	Remarks  Remarks

<sup>(1)</sup> For manually operated valves only.

<sup>\*</sup> Supplemental strate in form of lists, evatches or drawings, may be used accrited III size is 8-177 & 117, (2) information in

(Net'l Bd., State, Prov. and No.)

# FORM NPV-1 N CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES\* As Required by the Provisions of the ASME Code, Section III, Div. 1 800 # 0 H8 38

1. Manufactured by Muclas			
124	r valve blv., Borg warner ame and Address of N Certificate )	7500 Tyrone Ave., V	en Nuys, Celif:
2. Manufactured for Johnson	on Controls, Inc. P.O. Femerale of Owner	ox 429. Richland. Was	hiraton 99352
3. Location of Installation Han	ford #2 Jobsite, Richla	ind, Washington	
4. Pump or Valve Globe	Valve, Nominal	Inlet Size 1 Or	itlet Size
(a) Model No., (b) N C	Certificate Holder's '(c) Canadian	A 3 sale plate that the second remaining the second	en manistrate a a finitional
Series No.	"Serial Registration	(d) Drawing	" (f) Nat'l. (g) Year
or Type	No."	No. (e) Class	Bd. No. Built
	9 thru 79112 N/A	106DCA1-004 1	'N/A " 1982
• (1) • <u>1000</u>			17.11 23.72
(3)* .~:	U		
·-· (4)	S/N 790	<del></del>	
(5)		1/ Supp	·····
(6)		1/14/87	
(7)	SLC-V-42 S/A	179092	
(8)	330 12 1/	111	<i>0</i> 5
(10)			187.
The valves are	designed to handle a flu	id media which includ	es steam, water
5: <u>condensata</u> , hor	ated water, etc., associ	lated with a PMR and B	R. The
temperature pre	(Brief description of service for we service Tating of the medi	ia is stated below.	
		•	
6. Design Conditions3600	) <u>psi</u> 100	*F or Valve Pressure Class	1500 (1)
(P)	(iemperature)	To the position of the positio	* , ,
7. Cold Working Pressure 8. Pressure Retaining Pieces			• • • • • • • • • • • • • • • • • • • •
a. Frastite ustaining Flaces			
Mark No.	1 · .		
	Material Spec. No.	Manufacturer	Remarks
(a) Cartings	Material Spec. No.	Manufacturer	Remarks
(a) Castings			Remarks
(a) Castings Disc-Code 4W69		Manufacturer  Rex Precision	Remarks
Disc-Code 4W69	Colmonoy #4	Rex Precision	Remarks
Disc-Code 4W69	Colmonoy #4	Rex Precision	
Disc-Code 4W69	Colmonoy #4	Rex Precision	TO STORY AND ADDRESS A
Disc-Code 4W69	Colmonoy #4	Rex Precision	20 Nov 4 Appendix 4
Disc-Code 4W69	Colmonoy #4	Rex Precision	and the secondary of a
Disc-Code 4W69	Colmonoy #4	Rex Precision	The state of the s
Disc-Code 4W69	Colmonoy #4	Rex Precision	and the second of the second o
Disc-Code 4W69	Colmonoy #4	Rex Precision	THE CALL A
Disc-Code 4W69	Colmonoy #4	Rex Precision	THE CALL A
Disc-Code 4W69  Disc-Code 4W69  Disc-Code 1W69  Body-Code 1W69	Colmonoy #4  SA 182 F316	Rex Precision  CAD INCOME  Pacific Forge	ATABA CALV
Disc-Code 4W69	Colmonoy #4	Rex Precision	THE CALL A
Disc-Code 4W69  Disc-Code 4W69  Disc-Code 4W69  Disc-Code 4W69  Disc-Code 4W69	Colmonoy #4  Colmonoy #4  SA 182 F316  SA 182 F316	Rex Precision  CAR INFORM  Facific Forge  Kawaguchi	THE CALL A
Disc-Code 4W69  Disc-Code 4W69  Disc-Code 4W69  Disc-Code 4W69  Disc-Code 4W69	Colmonoy #4  SA 182 F316	Rex Precision  CAD INCOME  Pacific Forge	THE CALL A
Disc-Code 4W69  Disc-Code 4W69  Disc-Code 4W69  Disc-Code 4W69	Colmonoy #4  Colmonoy #4  SA 182 F316  SA 182 F316	Rex Precision  CAR INFORM  Facific Forge  Kawaguchi	ATHER CARE
Disc-Code 4W69  Disc-Code 4W69  Disc-Code 4W69  Disc-Code 4W69  Disc-Code 4W69	Colmonoy #4  Colmonoy #4  SA 182 F316  SA 182 F316	Rex Precision  CAR INFORM  Facific Forge  Kawaguchi	ATHER CARE
Disc-Code 4W69  Disc-Code 4W69  Disc-Code 1W69  Disc-Code 1W69  Disc-Code 1W69	Colmonoy #4  Colmonoy #4  SA 182 F316  SA 182 F316  SA 182 F316	Rex Precision  CAD INTONS  Pacific Forge  Kawaguchi  Crucible	A CALL STATE OF THE STATE OF TH

<sup>(1)</sup> For manually operated valves only.

<sup>\*</sup> Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8-1.2" x 11", (2) information in items 1, 2 and 5 on this Data Report is included on each sheet, and (3) each sheet is numbered and number of sheets aris recorded at too of this form.

Mark No.			
	Material Spec. No.	Manufacturer	Remerks
Salting N/A		•	
		1:,	**
material interes a s	rest of the State		
	•	<u> </u>	
	٠,٠٠٠	•	
	, *		
y 1 ( at 10 )	بر م.		
(d) Other Parts:N/A	9 82 76 36 18 18 18 18 18 18 18 18 18 18 18 18 18	, .	•
	•	,	
		•	
	•		
. ,			
		1	
d Huclear Valve Di		Sevel)	office .
- · · · · · · · · · · · · · · · · · · ·	ation No. N=1254 to u	•	symbol expires 10/27/81
a. NYE	certification of Borg Warner, 7500 mily) on file at NVD. Borg War	F DESIGN Tyrone Ave., Yaner Corp., 7500	n Huys, Ca. 91409
ign Information on file states as analysis report (Class 1, or ign specifications cartified by	certification of Borg Warner, 7500 and on file at NVD. Borg Warner, 7500 and on file at NVD. Borg Warner, 7500 and on file at NVD. Borg Warner, 7500 and 750	F DESIGN Tyrone Ave., Yaner Corp., 7500	n Huys, Ca. 91409
ign information on file at VI rea analysis report (Class 1, or ign specifications cartified by State Wash, Wash, Re	CERTIFICATION OF BOTH WATER AND BOTH	F DESIGN Tyrone Ave., Yaner Corp., 7500	n Huys, Ca. 91409
ign information on file at AVI see analysis report (Class 1, or ign specifications cartified by State Which Manks Re see analysis cartified by (1)	CERTIFICATION Of Borg Warmer, 7500 mily on file at NVD Borg Warmer, 111 James F. Hagan, David Wurangian	F DESIGN Tyrone Ave., Yaner Corp., 7500	n Huys, Ca. 91409
ign information on file at AVI see analysis report (Class 1, or ign specifications cartified by State Which Manks Re see analysis cartified by (1)	CERTIFICATION OF BOTH WATER NO. 13579  David Wurangian  19547	F DESIGN Tyrone Ave., Yaner Corp., 7500	n Huys, Ca. 91409
ign information on file statutes analysis report (Class 1, or ign specifications cartified by State Wash, Wilson Researched by (1) and analysis cartified by (1) a	CERTIFICATION Of Borg Warmer, 7500 miy) on file at NVD. Borg Warmer, 111 James F. Hagan, David Wurangian 19547	F DESIGN Tyrone Ave., Yaner Corp., 7500	n Huys, Ca. 91409
on information on file states a consistence of the state	CERTIFICATION Of Borg Warmer, 7500 miy) on file at NVD. Borg Warmer, 111 James F. Hagan, David Wurangian 19547	F DESIGN Tyrone Ave., Yaner Corp., 7500	n Huys, Ca. 91409
ign information on file statutes analysis report (Class 1, or ign specifications cartified by State Wash, Wilson Researchise by (1)	CERTIFICATION Of Borg Warmer, 7500 miy) on file at NVD. Borg Warmer, 111 James F. Hagan, David Wurangian 19547	F DESIGN Tyrone Ave., Vs ner Corp., 7500	n Huys, Ca. 91409
sign information on file statutes analysis report (Class 1 or Washt, Washt, Washt, Roses analysis certified by (1)	CERTIFICATION OF BORR Warrer, 7500 mily on file at NVD. Borr Warrer, 7500 mily on file at NVD. Borr Warrer, 13579  David Wurangian  CERTIFICATE OF SHOward Commission issued by the National State of Showard California inois have inspected the State of Showard	P INSPECTION  Intermediate of Boile and employed by Little pump, or valve, definy knowledge and bell Section III.	and Pressure Vessel Inspects bernen's Mitual Casus scribed in this Data Report ed, the N Cartificate Holder has co
sign information on file statutes analysis report (Class 1 or Nash, Nash	CERTIFICATION OF BOTH WATER, 7500 mly) on file at NVD. Born Water, 7500 mly, 7500 mly. The same only.  CERTIFICATE OF SHOW CALIFORNIA middle commission issued by the National management of the last of t	P INSPECTION  Introductional Board of Boile and employed by Lim e pump, or valve, de fmy knowledge and bell Section III. r makes any warranty, er the inspector nor hi	m Huys, Ca. 91409 Tyrone Ave. Van Nuys, C. Tyr
ign Information on file statutes analysis report (Class 1, or Washt, Was	CERTIFICATION OF BOTH WATER, 7500 mly) on file at NVD. Born War at 13579 and 13579 and 13579 and 19547  CERTIFICATE OF SHOward California have inspected the Secondance with the ASME Code, at the inspector nor his employed.	P INSPECTION  Introductional Board of Boile and employed by Lim e pump, or valve, de fmy knowledge and bell Section III. r makes any warranty, er the inspector nor hi	m Huys, Ca. 91409 Tyrone Ave. Van Nuys, C. Tyr

WASHINGTON PUBLIC POWE	R
SUPPLY SYSTEM	Ī

9

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

		*	*				
1. Owner (Name)	Washington P	ublic Power Su	pply Syster	n', .		Date //	126189
Owner (Address)	3000 George VPPSS Nuclear	Washington W Power Plant (W		id, WA		Sheet	1 of 1 WNP-2
Plant (Address)  3. Work Performed by		enton County, \chtel Const		. Inc.	Repair	C20069 Organization P.O. N	
Work Performed by 4. Identification of Sys	(Address) PO	Box 600, R in Steam (M					
	ion of ASME Sec 1308 C	ction XI Utilized ode Case	for Repairs	or Replacei	ments 19.	80 Edition, Wint	
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
MS(1)-4D	WPPSS	<del>/.</del>	N/A	A\N, .	1983	Replacement	Yes, Class

7. Description of Work:

Replaced pipe cap on 3/4" MS (55)-4 drain line.

### FORM NIS-2 (Back)

psig, Temp.\_\_\_\_

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other None

Test Pressure \_\_\_\_\_\_psig, Test Temp.\_\_\_\_\_\_°F

Component Design Pressure\_\_\_

	None			
	•		•	
	•			
	•	N N		
				•
			•	
		•		
		CERTIFICATE C	OF COMPLIANCE	
Mo cori	he that the stateme	nte mada in the report are	sagget and this Peplac	cement conforms to the rules
	Code, Section XI.	ins made in the report are	repar or re	placement Controlles to the rules
	ymbol Stamp	Not applicable		r
rypa coda o	ymbor Otamp			
Certificate Au	uthorization No	Not applicable	Expiration Date	Not applicable
		• =	<b>a.</b> . <b>.</b>	
Signed	Owner or Owner's Di	escinee.	Title Plant Tec	chnical Manager
101189	•	•		
Date	10-25	19_89	•	
			· · · · · · · · · · · · · · · · · · ·	
				-
			<del></del>	
	٤	CERTIFICATE OF INS	SERVICE INSPECTION	
l, the	undersigned, holdi	ng a valid commission is:	sued by the National Boar	d of Boiler and Pressure Vessel
Inspectors a	nd the State of	**** *	and employed by	Lumbermen's Mutual
	ualty Co.	of Illinois		ected the components described
	r's Report during th			10 /26 /89 minations and taken corrective
measures de	actibed in this Ow	ner's Report in accordant	e with the requirements of	of the ASME Code, Section XI.
		•		warranty, expressed or implied.
				port. Furthermore, neither the In-
•				erty damage or a loss of any kind
arising from	or connected with	this inspection.		
	$() \rightarrow ()$	_	7447	11)
11 /610	Inspector's Sign	ature Comm	issions 7447-	nal Board, State, and Endorsements
محسمه				
مر مرد	,	10 89	_	
Date_Q	,	R. 19 89	•	



#### FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

1. Owner: Washington Public Power Supply System (WPPSS)

Date: 5/29/90

Address: 3000 George Washington Way, Richland, WA

Sheet: 1 of 1

2. Plant: WPPSS Nuclear Power Plant (WNP)

Unit: WNP-2

Address: Hanford, Benton County, WA

- 3.(a) Work Performed by: WPPSS,3000 George Washington Way, Richland, WA
  - (b) Repair Organization P.O. No., Job No., etc.: WPPSS
- 4. Identification of System: Reactor Water Clean Up (RWCU) System
- 5. (a) Applicable Construction Code ASME Section III: 1983 Edition with Winter 1984 Addenda, Code Case: None
  - (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
- 6. Identification of Components Repaired or Replaced and Replacement Components

_								
ſ	Name of	Name of	Manufacturer	National	Other	Year	Repaired,	ASME Code
١	Component	Manufacturer	Serial No.	Board	I.D.	Built	Replaced, or	Stamped
1				No.			Replacement	(Yes or No)
L								Code Class
I	RWCU-P-1B	HTL	U12A86866	8	N/A	1987	Replacement	Yes, Code Class 3
١		,						
١						1		
C						1 1		
T								
1								
l						1 1		

- 7. Description of Work: Installed closure plate on RWCU-P-1B. The installation work was performed as follows
  - 1) Machined closure plate
  - 2) Installed pipe and valves on the closure plate
  - 3) Made required welds
  - 4) Installed the closure plate

Note: The installation of the closure plate on the pump easing was considered to be an interim configuration of the pump till the pump motor/motor casing was fixed. Upon completion of the repair work on the pump motor/motor casing, the closure plate was removed and pump motor/motor casing was reinstalled

HTL - Hayward Tyler Limited



	,
	FORM NIS-2 (Back)
8.	Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other X None Test Pressure: Psig Temperature: OF Component Design Pressure: Psig Temperature: OF
9.	Remarks: See attached NPV-I Code Data Report for Serial Numbers 20976 and 20977
	Note: Pressure test on the closure plate bolted joint was not required since the closure plate was used for personal protection. Valves RWCU-V-5B and RWCU-V-13B were tagged locked closed and the system between these two (2) valves including the closure plate bolte joint was declared inoperable.
	CERTIFICATE OF COMPLIANCE
ff a	We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.  Type Code Symbol Stamp: Not applicable Certificate Authorization No.: Not applicable Expiration Date: Not Applicable  Prepared by  Signed by  Plant Technical Manager  Date  5-30-90
	CERTIFICATE OF INSERVICE INSPECTION
	I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 1/29/8% to 7/5/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.  By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.  Commissions  1556 W  National Board, State, and Endorsements
	Date 7/5/90

Plan No. 2-0450 Busip Sup 0 B 1 4 4

### FORM NPV-1 MANUFACTURERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES\*

As Required by the Provisions of the ASME Code Rules MEGBR 215 12424

	Nuclear Valve Div	iaion		
	of Down Women 75		. Van Nuva. Ca	47713
. Manu	ifactured by OI BOTS WATHER, 73	Address of Manufacturer)	Ord	er No.
	Bovee & Crail/G.E			
	ufactured for P.O. Box 1040, R1		on 99352	215-3261
A MEDI		(Name and Address)	· ·	er No.
			*	(
3 Dwn	er WPPSS Hanford #2 Job S	ite		
	•		4	
4. Loc	stion of Plant Richland, Wash	ington 99352	Screat New	ubess 20976E2
	Yun I nam '		76700 C . t Ymak 6	- 11 T 00
5. Pum	p or Valve Identification RUCLEAR	Valve Div., P/N	76700-6,: 1 Inch G	ate valve, CS
		00054 45		
		umbers 20974 th		7es)
	(Brief descript	ion of service for which eq	uipment was designed)	,
	· ·			
	75700	_ X	clear Value Divid	on of Rose Wasses
(a) i	Drawing No. 76700	Prepared by Mu	ATAG DIATRI	ion of Borg Warner
• •	National Board No.	.*	•	
/ D	ign Conditions 3600 (Pressure)	: 100	, 0 <del>p</del>	•
o. Des	(Pressure)	(Temperatu	(e)	
7. The	material, design, construction, and works	asaship complies with A	SME Code Section III. Clas	
7. The	tion 1971 . Addenda Date	Winter '73	SME Code Section III. Clas	
7. The	tion 1971 , Addenda Date	asaship complies with A	SME Code Section III. Clas	
7. The	Mark No.	Winter 773  Material Spec. No.	SME Code Section III. Clas	
7. The	Hark No.  Castings  Gate - Code 1914	Winter '73	SME Code Section III. Clas Case No Manufacturer	
7. The	Hark No.  Castings  Gate - Code 1914  Casting - 75347	Winter 773  Material Spec. No.	Case No.  Manufacturer  Rex Precision	
7. The	Hark No.  Castings  Gate - Code 1914	Winter '73  Material Spec. No.  SA487 CA 6NM	SME Code Section III. Clas Case No Manufacturer	
7. The	Hark No.  Castings  Gate - Code 1914  Casting - 75347	Winter '73  Material Spec. No.  SA487 CA 6NM	Case No.  Manufacturer  Rex Precision	
7. The	Hark No.  Castings  Gate - Code 1914  Casting - 75347	Winter '73  Material Spec. No.  SA487 CA 6NM	Case No.  Manufacturer  Rex Precision	
7. The	Hark No.  Castings  Gate - Code 1914  Casting - 75347	Winter '73  Material Spec. No.  SA487 CA 6NM	Case No.  Manufacturer  Rex Precision	
7. The	Hark No.  Castings  Gate - Code 1914  Casting - 75347	Winter '73  Material Spec. No.  SA487 CA 6NM	Case No.  Manufacturer  Rex Precision	
7. The	Hark No.  Castings  Gate - Code 1914  Casting - 75347	Winter '73  Material Spec. No.  SA487 CA 6NM	Case No.  Manufacturer  Rex Precision NV Division	Remarks ATION O
7. The	Hark No.  Castings  Gate - Code 1914  Casting - 75347	Winter '73  Material Spec. No.  SA487 CA 6NM	Case No.  Manufacturer  Rex Precision  NV Division	
7. The Edit	Mark No.  Castings  Gate - Code 1P14  Casting - 75347  Machined - 75346	Winter '73  Material Spec. No.  SA487 CA 6NM	Case No.  Manufacturer  Rex Precision NV Division	Remarks ATION O
7. The Edit	Mark No.  Castings  Gate Code 1P14  Casting - 75347  Machined 75346  Forgings	Winter '73  Waterial Spec. No.  SA487 CA 6NM	Case No.  Manufacturer  Rex Precision  NV Division	Remarks ATION O
7. The Edit	Mark No.  Castings  Gate - Code 1P14  Casting - 75347  Machined - 75346  Forgings  Body - Code 1J60	Winter '73  Material Spec. No.  SA487 CA 6NM	Case No.  Manufacturer  Rex Precision  NV Division	Remarks ATION O
7. The Edit	Mark No.	Winter '73  Waterial Spec. No.  SA487 CA 6NM	Case No.  Manufacturer  Rex Precision  NV Division  FORM  Pacific Forge	Remarks ATION O
7. The Edit	Mark No.	Winter '73  Waterial Spec. No.  SA487 CA 6NM	Rex Precision NV Division  Pacific Forge NV Division	Remarks ATION O
7. The Edit	Mark No.	Winter '73  Waterial Spec. No.  SA487 CA 6NM	Case No.  Manufacturer  Rex Precision  NV Division  FORM  Pacific Forge	Remarks ATION O
7. The Edit	Mark No.   Castings   Gate	Material Spec. No.  SA487 CA 6NM  SA 105	Rex Precision NV Division  Pacific Forge NV Division	Remarks ATION O
7. The Edit	Mark No.   Castings   Gate	Material Spec. No.  SA487 CA 6NM  SA 105	Manufacturer  Rex Precision NV Division  Pacific Forge NV Division  NV Division	Remarks ATION O
7. The Edit	Mark No.	Material Spec. No.  SA487 CA 6NM  SA 105	Rex Precision NV Division  Pacific Forge NV Division  NV Division  Compton Forge	Remarks ATION O
7. The Edit	Mark No.   Castings   Gate	Material Spec. No.  SA487 CA 6NM  SA 105	Manufacturer  Rex Precision NV Division  Pacific Forge NV Division  NV Division	Remarks ATION O



# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

1. Owner: Washington Public Power Supply System (WPPSS)
Address: 3000 George Washington Way, Richland, WA

Date: 6/25/90 Sheet: 1 of 1 Unit: WNP-2

2. Plant: WPPSS Nuclear Power Plant (WNP)

Address: Hanford, Benton County, WA

- 3.(a) Work Performed by: WPPSS,3000 George Washington Way, Richland, WA
  - (b) Repair Organization P.O. No., Job No., etc.: WPPSS
- 4. Identification of System: Main Steam (MS) System
- 5. (a) Applicable Construction Code ASME Section III: 1971 Edition with no Addenda, Code Case: None
  - (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
- 6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
MS-RV-1C	Crosby Valve and Gage Co	N63790-00-0046	N/A	N/A	1981	Replacement	Yes, Code Class 1

- 7. Description of Work: Replaced disc insert for main steam relief valve. The replacement work was performed as follows
  - 1) Removed existing disc insert from the valve
  - 2) Installed new replacement disc insert in the valve
  - 3) Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during pressure test



FORM NIS-2 (Back)
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure X Other Test Pressure: 964 Psig Test Temperature: Saturated OF *Component Design Pressure: 1150 Psig Temperature: 575 OF
9. Remarks: None
• Relief valve set pressure and rated temperature
CERTIFICATE OF COMPLIANCE
We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.  Type Code Symbol Stamp: Not applicable Certificate Authorization No.: Not applicable Expiration Date: Not Applicable  Prepared by  Oudle Code  Plant Technical Manager
Date 6/26/90 Date 6-27-90
CERTIFICATE OF INSERVICE INSPECTION
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 8/26/88 to 4/1/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.  By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.    Amylingaria



## FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

 Owner: Washington Public Power Supply System (WPPSS) Address: 3000 George Washington Way, Richland, WA Date: 8/21/90 Sheet: 1 of 1 Unit: WNP-2

2. Plant: WPPSS Nuclear Power Plant (WNP)

Address: Hanford, Benton County, WA

- 3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA
  - (b) Repair Organization P.O. No., Job No., etc.: WPPSS
- 4. Identification of System: Main Steam (MS) System
- 5. (a) Applicable Construction Code ASME Section III: 1971 Edition with Winter 1973 Addenda, Code Case: None
  - (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308 and N-416
- 6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
MS(1)-4B	WPPSS	MS(1)-4B-P3	N/A	N/A	1983	Replacement	Yes, Code Class 2

- 7. Description of Work: Replaced pipe piece between the sockolet and valve MS-V-239. The pipe was replaced due to failed (cracked) weld. The replacement work was performed as follows:
  - 1) Cut and removed existing pipe piece
  - 2) Installed new replacement pipe piece
  - 3) Made required socket welds
  - 4) Performed PT examination on the final socket welds. PT examination results acceptable. This NDE examination satisfied both ASME Section III, Code Class 2 and Code Case N-416 requirements
  - 5) Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during pressure test

	WASHINGTON	PUBLIC POXER
S	SUPPLY	SYSTEM
	COLLTI	212757

	FOR	M NIS-2 (Back	)		
Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure X Other Test Pressure: 982 Psig Test Temperature: 544 °F Component Design Pressure: 1250 Psig Temperature: 575 °F					
ydrostatic test as permitted by		hydrostatic test will be	nd temperature was performed in lieu of the required performed at the end of first ISI inspection interval an port		
	CERTIFIC	CATE OF COMPLI	ANCE		
We certify that the star ASME Code, Section of Type Code Symbol Star Certificate Authorization Date: Not A Prepared by	XI. mp: Not applicable ion No.: Not applicable	nt are correct and the state of	Plant Technical Manager		
Date \$  22	190	Date	8-27-90 ·		
	CERTIFICATE	OF INSERVICE IN	SPECTION		
Inspectors and the Sta Mutual System) of No during the period /// Owner has performed accordance with the re By signing this certiconcerning the examinathe inspector nor his examination.	te of Washington and emproved, Massachusetts have 1-28-88 to 8-22 examinations and taken conficute neither the Inspectorations and corrective meaniployer shall be liable in a from or connected with the second state of the second seco	ployed by Arkwright re inspected the con 2-90 and state to corrective measures. Code, Section XI. or nor his employer sures described in tany manner for any his inspection.	ational Board of Boiler and Pressure Vessel Mutual Insurance Company (Factory aponents described in the Owner's Report to the best of my knowledge and belief, the described in this Owner's Report in makes any warranty, expressed or implied, his Owner's Report. Furthermore, neither personal injury or property damage or a		
Date 8-72-9		Commissions	9556100 National Board, State, and Endorsements		
Date 8-22-9	·o.		l		





# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

1. Owner: Washington Public Power Supply System (WPPSS)
Address: 3000 George Washington Way, Richland, WA

Date: 8/21/90 Sheet: 1 of 1 Unit: WNP-2

2. Plant: WPPSS Nuclear Power Plant (WNP)

Address: Hanford, Benton County, WA

- 3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA
  - (b) Repair Organization P.O. No., Job No., etc.: WPPSS
- 4. Identification of System: Main Steam (MS) System
- 5. (a) Applicable Construction Code ASME Section III: 1971 Edition with Winter 1973 Addenda, Code Case: None
  - (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308 and N-416
- 6. Identification of Components Repaired or Replaced and Replacement Components

Name o Compone	1	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code . Stamped (Yes or No) Code Class
MS(1)-4E		MS(1)-4B-P3	N/A	N/A	1983	Replacement	Yes, Code Class 2
MS(1)-4C		MS(1)-4C-P3	N/A	N/A	1983	Replacement	Yes, Code Class 2

- 7. Description of Work: Removed 3/4° drain line with valves MS-V-119C/MS-V-238C and 2° drain line with valves MS-V-239/MS-V-238B. Installed pipe caps in place of the drain lines. The replacement work for both the drain lines was performed as follows:
  - 1) Cut and removed both the drain lines
  - 2) Installed new replacement pipe for 3/4° drain line and new replacement pipe caps for both the drain lines
  - 3) Made required socket welds
  - 4) Performed MT or PT examination on the final socket welds. MT/PT examination results acceptable. This NDE examination satisfied both ASME Section III, Code Class 2 and Code Case N-416 requirements
  - 5) Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during pressure test

Note: Capped drain lines were considered as interim design configuration. Both the drain lines were reinstalled under ASME Section XI Plan No 2-0498

100	WASHINGTON	PUBLIC POWER
S	SUPPLY	SYSTEM

FORM NIS-2 (Back)
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure X Other  Test Pressure: 1005 Psig Test Temperature: 535 °F  Component Design Pressure: 1250 Psig Temperature: 575 °F
9. Remarks: Visual examination (VT-2) for leakage at nominal operating pressure and temperature was performed in lieu of the required hydrostatic test as permitted by Code Case N-416. The required hydrostatic test will be performed at the end of first ISI inspection interval and the results of the test will be documented in the Inservice Inspection (ISI) Summary Report
CERTIFICATE OF COMPLIANCE
We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.  Type Code Symbol Stamp: Not applicable
Certificate Authorization No.: Not applicable Expiration Date: Not Applicable
Prepared by Judip Right Signed by Plant Technical Manager
Date
CERTIFICATE OF INSERVICE INSPECTION
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 12-2-88 to 8-22-90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.  By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.  Commissions  9556 W  National Board, State, and Endorsements
Date 8-22-90

2-0477

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

•		<del></del>					<u> </u>	
1.	Owner (Name)	Washington P	ublic Power Su	pply Systen	n		Date	9/22/89
	Owner (Address)	3000 George	Washington W	ay, Richlan	id, WA		Sheet1	ot1
2.	Plant (Name)W	/PPSS Nuclear	Power Plant (W	NP)			Unit	WNP-2
	Plant (Address)	Hanford, B	enton County, V	VA			PSS	
3.	Work Performed by	(ivame)	PPSS			•	Organization P.O. N	lo., Job No., etc.
	Work Performed by		000 George					
4.	Identification of Sys	ctemC	ontainment	Supply	Purge (C	SP) Sy	stem	
							Addenda, Nor	e Code Case
	(b) Applicable Editi			for Repairs	or Replacer	nents 19	80 Edition, Wir	iter 80
•	Addenda,	<u>N308</u> c	ode Case					
6.	Identification of Co	mponents Repa	ired or Replace	d and Repl	acement C	omponen	its	
	Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
	CSP(1)-1B	WPPSS	*	N/A	N/A	1983	Replacement	Yes, Class 2
						,	-	

7. Description of Work:

Reinstalled drain line. The reinstallation work was performed as follows:

- 1. Reinstalled drain line.
- 2. Made required socket weld.
- 3. Performed MT examination on the final socket weld. MT examination results acceptable.

### FORM NIS-2 (Back)

8. Tests Conducted:	•	Nominal Operating Pressure C_psig, Test Temp	Other 21 None
		psig, Temp	
9. Remarks:		,	
None	· .	•	•
			•
	CERTIFIC	CATE OF COMPLIANCE	
We certify that of the ASME Code Type Code Symbol	, Section XI.	repair o	1acement conforms to the rules
	Not applicable Not ap	Title Plant 7	Not applicable echnical Manager
•			,
Inspectors and the Casualty C in this Owner's Re and state that to th measures describe By signing concerning the ex- spector nor his em	rsigned, holding a valid commist State of Washington Co. of Illinois port during the period Le best of my knowledge and belied in this Owner's Report in act this certificate neither the Insperaminations and corrective measure.	and employed by have in: 2-5-88. to lief, the Owner has performed excordance with the requirements extor nor his employer makes arures described in this Owner's F	spected the components described



# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

Owner: Washington Public Power Supply System (WPPSS)
 Address: 3000 George Washington Way, Richland, WA

Date: 6/3/90 Sheet: 1 of 1 Unit: WNP-2

2. Plant: WPPSS Nuclear Power Plant (WNP)

Address: Hanford, Benton County, WA

- 3.(a) Work Performed by: WPPSS,3000 George Washington Way, Richland, WA
  - (b) Repair Organization P.O. No., Job No., etc.: WPPSS
- 4. Identification of System: Main Steam (MS) System
- 5. (a) Applicable Construction Code ASME Section III: 1971 Edition with Winter 1973 Addenda, Code Case: None
  - (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
- 6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
MS(18)-2-5	WPPSS	MS(18)-2-5-P1	N/A	N/A	1983	Replacement	Yes, Code Class 3

7. Description of Work: Replaced bolt for relief valve MS-RV-5C discharge flanged joint

MOTOMISTAK	PUBLIC PORTER
DYMONY	CVCTP(T)
ZUPPLI	System

FORM NIS-2 (Back)
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other X None Test Pressure: Psig Temperature: °F Component Design Pressure: Psig Temperature: °F
9. Remarks: None
CERTIFICATE OF COMPLIANCE
We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.  Type Code Symbol Stamp: Not applicable Certificate Authorization No.: Not applicable Expiration Date: Not Applicable  Prepared by  Outsite Signed by  Plant Technical Manager
Date 6/3/90. Date 6-4-90
CERTIFICATE OF INSERVICE INSPECTION
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 4/4/89 to 1/5/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.  By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
Lan Gragouth Commissions 9556 W  Inspector's Signature National Board, State, and Endorsements
Date <u>6/4/98</u>

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

vner (Name)	Washington P	ublic Power Su	pply Systen	)		Date <i>l</i>	0/13/89
Owner (Address)	3000 George	Washington W	ay, Richlan	d, WA +		Sheet 1	of 1
	PPSS Nuclear	Power Plant (W	NP)			Unit	WNP-2
Plant (Address)	Hanford, Bo	enton County, V	VA			WPP	SS
, ,	(Mama)	WPPSS		<del></del>	Repair	Organization P.O. N	
3. Work Performed by	ໍ່	00 George V	lashingto	on Way.	Richla	nd. WA	
Work Performed by	(Address)		·			,	
4. Identification of Sys		<u>are Main Si</u>				<del> </del>	<del></del>
5. (a) Applicable Con-							
			or Repairs	or Replacer	nents 19 <sub>-</sub>	80 Edition, Wir	iter 80
Addenda,	1308 c	ode Case					
6. Identification of Co	mponents Repa	ired or Replace	d and Repl	acement C	omponer	its	
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board	Other	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
Spare Main Steam Relief	CV&G	* ***	.N/A	N/A	1981	Replacement	Yes, Class 1
:	F			•		, , , · · · · · ·	

7. Description of Work:

Replaced disc insert and nozzle in spare main steam relief valve, S/N N63790-00-0122. The replacement work was performed as follows:

- 1) Removed existing disc insert and nozzle from spare main steam relief valve.
- 2) Installed new disc insert and nozzle in spare main steam relief valve.

CVad - Crosby Valve and Gage Company \* - Serial No. N63790-00-0122

### FORM NIS-2 (Back)

8. Tests Conducted:	Hydrostatic Pneumatic Nominal Operating Pressure Other    Test Pressurepsig, Test Temp°F  Component Design Pressurepsig, Temp°F
9. Remarks:	Companion Bodgi From Land Companion
	est will be performed when the spare main steam relief valve is in the system.
	CERTIFICATE OF COMPLIANCE
We certify that of the ASME Code Type Code Symbol	
Certificate Authoriz Signed  Signed  Tojii 88	Title Plant Technical Manager    10 -13 19 85
	CERTIFICATE OF INSERVICE INSPECTION
Inspectors and the Casualty C in this Owner's Re and state that to the measures describe By signing concerning the ex- spector nor his em	rsigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel State of Washington and employed by Lumbermen's Mutual



### FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

1. Owner: Washington Public Power Supply System (WPPSS)

Address: 3000 George Washington Way, Richland, WA

Date: 5/29/90 Sheet: 1 of 1 Unit: WNP-2

2. Plant: WPPSS Nuclear Power Plant (WNP)

- 3.(a) Work Performed by: WPPSS,3000 George Washington Way, Richland, WA
  - (b) Repair Organization P.O. No., Job No., etc.: WPPSS
- 4. Identification of System: Main Steam (MS) System
- 5. (a) Applicable Construction Code ASME Section III: 1971 Edition with no Addenda, Code Case: None
  - (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
- 6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
MS-RV-1B	Crosby Valve and Gage Co	N63790-00-0045	N/A	N/A	1981	Replacement	Yes, Code Class 1
							,

- 7. Description of Work: Replaced disc insert for main steam relief valve. The replacement work was performed as follows
  - 1) Removed existing disc insert from the valve
  - 2) Installed new replacement disc insert in the valve
  - 3) Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during pressure test

FORM NIS-2 (Back)							
R. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other Test Pressure: 6.66 PsigTest Temperature: 80.1 °F  *Component Design Pressure: 1150 Psig Temperature: 575 °F							
9. Remarks: None							
• Relief valve set pressure and rated temperature .							
CERTIFICATE OF COMPLIANCE							
	onforms to the rules of the						
Date <u>\$130/70</u> Date <u>5-30-90</u>	· · · · · · · · · · · · · · · · · · ·						
CERTIFICATE OF INSERVICE INSPECTION							
I, the undersigned, holding a valid commission issued by the National Board of Inspectors and the State of Washington and employed by Arkwright Mutual Insurant Mutual System) of Norwood, Massachusetts have inspected the components described during the period 4/24/89 to 3/3/90 and state to the best of no Owner has performed examinations and taken corrective measures described in the accordance with the requirements of the ASME Code, Section XI.  By signing this certificate neither the Inspector nor his employer makes any was concerning the examinations and corrective measures described in this Owner's R the inspector nor his employer shall be liable in any manner for any personal injur loss of any kind arising from or connected with this inspection.    Matignal   Date   5/30/90	ance Company (Factory ibed in the Owner's Report ny knowledge and belief, the nis Owner's Report in rranty, expressed or implied, eport. Furthermore, neither ny or property damage or a						
Date <u>5/30/90</u>	-						



### FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

1. Owner: Washington Public Power Supply System (WPPSS)

Date: 5/29/90 Sheet: 1 of 1

Address: 3000 George Washington Way, Richland, WA

Unit: WNP-2

2. Plant: WPPSS Nuclear Power Plant (WNP)

Address: Hanford, Benton County, WA

3.(a) Work Performed by: WPPSS,3000 George Washington Way, Richland, WA

(b) Repair Organization P.O. No., Job No., etc.: WPPSS

4. Identification of System: Main Steam (MS) System

5. (a) Applicable Construction Code ASME Section III: 1971 Edition with no Addenda, Code Case: None

(b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
MS-RV-2B	Crosby Valve and Gage Co	N63790-00-0049	N/A	N/A	1980	Replacement	Yes, Code Class 1

- 7. Description of Work: Replaced disc insert for main steam relief valve. The replacement work was performed as follows
  - 1) Removed existing disc insert from the valve
  - 2) Installed new replacement disc insert in the valve
  - 3) Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during pressure test

FORM NIS-2 (Back)						
3. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure X Other Test Pressure: 6.65 Psig Test Temperature: 76 °F  *Component Design Pressure: 1175 Psig Temperature: 575 °F						
9. Remarks: None						
• Relief valve set pressure and rated temperature						
CERTIFICATE OF COMPLIANCE						
We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.  Type Code Symbol Stamp: Not applicable Certificate Authorization No.: Not applicable Expiration Date: Not Applicable  Prepared by  Lucip Signed by  Plant Technical Manager						
Date						
CERTIFICATE OF INSERVICE INSPECTION						
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 4/26/54 to 3/3/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.  By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.  Commissions 956 W  National Board, State, and Endorsements  Date 5/20/90						



## FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

Owner: Washington Public Power Supply System (WPPSS)
 Address: 3000 George Washington Way, Richland, WA

Date: 5/29/90 Sheet: 1 of 1 Unit: WNP-2

2. Plant: WPPSS Nuclear Power Plant (WNP)

- 3.(a) Work Performed by: WPPSS,3000 George Washington Way, Richland, WA
  - (b) Repair Organization P.O. No., Job No., etc.: WPPSS
- 4. Identification of System: Main Steam (MS) System
- 5. (a) Applicable Construction Code ASME Section III: 1971 Edition with no Addenda, Code Case: None
  - (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
- 6. Identification of Components Repaired or Replaced and Replacement Components

1	Name of omponent	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
M	IS-RV-2D	Crosby Valve and Gage Co	N63790-00-0052	N/A	N/A	1980	Replacement	Yes, Code Class 1

- 7. Description of Work: Replaced disc insert for main steam relief valve. The replacement work was performed as follows
  - 1) Removed existing disc insert from the valve
  - 2) Installed new replacement disc insert in the valve
  - 3) Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during pressure test

FORM NIS-2 (Back)						
Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure X Other Test Pressure: 6.65 Psig Test Temperature: 77.8 °F  *Component Design Pressure: 1185 Psig Temperature: 575 °F						
. Remarks: None						
• Relief valve set pressure and rated temperature						
CERTIFICATE OF COMPLIANCE						
We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.  Type Code Symbol Stamp: Not applicable Certificate Authorization No.: Not applicable Expiration Date: Not Applicable  Prepared by  Plant Technical Manager						
Date						
CERTIFICATE OF INSERVICE INSPECTION						
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vesse. Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 4/26/89 to 3/13/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.  By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.						
Agrifforgate Commissions 9556 W						
Inspector's Signature National Board, State, and Endorsements  Date 5/30/90						

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

1. Owner: Washington Public Power Supply System (WPPSS)
Address: 3000 George Washington Way, Richland, WA

Date: 5/29/90 Sheet: 1 of 1 Unit: WNP-2

2. Plant: WPPSS Nuclear Power Plant (WNP)

- 3.(a) Work Performed by: WPPSS,3000 George Washington Way, Richland, WA
  - (b) Repair Organization P.O. No., Job No., etc.: WPPSS
- 4. Identification of System: Main Steam (MS) System
- 5. (a) Applicable Construction Code ASME Section III: 1971 Edition with no Addenda, Code Case: None
  - (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
- 6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
MS-RV-3A	Crosby Valve and Gage Co	N63790-00-0055	N/A	N/A	1980	Replacement	Yes, Code Class 1

- 7. Description of Work: Replaced disc insert for main steam relief valve. The replacement work was performed as follows
  - 1) Removed existing disc insert from the valve
  - 2) Installed new replacement disc insert in the valve
  - 3) Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during pressure test

FORM NIS-2 (Back)						
3. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure X Other Test Pressure: 6.75 Psig Test Temperature: 76.2 °F  *Component Design Pressure: 1195 Psig Temperature: 575 °F						
9. Remarks: None						
• Relief valve set pressure and rated temperature						
CERTIFICATE OF COMPLIANCE						
We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.  Type Code Symbol Stamp: Not applicable Certificate Authorization No.: Not applicable Expiration Date: Not Applicable  Prepared by  Signed by  Plant Technical Manager  Date  5-30-90						
Date						
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 4/26/29 to 3/15/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.  By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.  Commissions  9556 W  National Board, State, and Endorsements						
Date 5/30/40 National Board, State, and Endorsements						



# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

1. Owner: Washington Public Power Supply System (WPPSS)
Address: 3000 George Washington Way, Richland, WA

Date: 5/29/90 Sheet: 1 of 1 Unit: WNP-2

2. Plant: WPPSS Nuclear Power Plant (WNP)

- 3.(a) Work Performed by: WPPSS,3000 George Washington Way, Richland, WA
  - (b) Repair Organization P.O. No., Job No., etc.: WPPSS
- 4. Identification of System: Main Steam (MS) System
- 5. (a) Applicable Construction Code ASME Section III: 1971 Edition with no Addenda, Code Case: None
  - (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
- 6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
MS-RV-4A	Crosby Valve and Gage Co	N63790-00-0059	N/A	N/A	1980	Replacement	Yes, Code Class 1

- 7. Description of Work: Replaced disc insert for main steam relief valve. The replacement work was performed as follows
  - 1) Removed existing disc insert from the valve
  - 2) Installed new replacement disc insert in the valve
  - 3) Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during pressure test

FORM NIS-2 (Back)							
Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure X Other  Test Pressure: 6.80 Psig  *Component Design Pressure: 1205 Psig  Temperature: 575 °F  Temperature: 575 °F							
9. Remarks: None							
• Relief valve set pressure and rated temper	rature						
	CERTIFICATE OF COMPLIANCE						
We certify that the statements made ASME Code, Section XI.  Type Code Symbol Stamp: Not applied Certificate Authorization No.: Not applicable		ement conforms to the rules of the					
Prepared by Culaip &	Signed by	Plant Technical Manager					
Date 5/30/50	Date <u>5-30</u>	-9u					
I, the undersigned, holding a valinspectors and the State of Washing Mutual System) of Norwood, Massa during the period 4/26/84	TIFICATE OF INSERVICE INSPECT lid commission issued by the National Extra and employed by Arkwright Mutual chusetts have inspected the component to 5/30/40 and state to the beand taken corrective measures described the ASME Code Service VI	Board of Boiler and Pressure Vessel I Insurance Company (Factory s described in the Owner's Report est of my knowledge and belief, the					
By signing this certificate neither concerning the examinations and co	the Inspector nor his employer makes a rrective measures described in this Own be liable in any manner for any persona	ner's Report. Furthermore, neither					
Date 5/30/90	Commissions .	9552 W National Board, State, and Endorsements					
Date <u>5/30/90</u>	• .						



Date: 5/29/90

Sheet: 1 of 1

Unit: WNP-2

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

1. Owner: Washington Public Power Supply System (WPPSS)

Address: 3000 George Washington Way, Richland, WA

2. Plant: WPPSS Nuclear Power Plant (WNP)

Address: Hanford, Benton County, WA

3.(a) Work Performed by: WPPSS,3000 George Washington Way, Richland, WA

(b) Repair Organization P.O. No., Job No., etc.: WPPSS

4. Identification of System: Main Steam (MS) System

5. (a) Applicable Construction Code ASME Section III: 1971 Edition with no Addenda, Code Case: None

(b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
MS-RV-4C	Crosby Valve and Gage Co	N63790-00-0058	N/A	N/A	1980	Replacement	Yes, Code Class 1

- 7. Description of Work: Replaced disc insert for main steam relief valve. The replacement work was performed as follows
  - 1) Removed existing disc insert from the valve
  - 2) Installed new replacement disc insert in the valve
  - 3) Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during pressure test

FORM NIS-2 (Back)						
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure X Other Test Pressure: 6.7 Psig Test Temperature: 75.3 °F  *Component Design Pressure: 1195 Psig Temperature: 575 °F						
9. Remarks: None	N .					
* Relief valve set pressure and rated temperature	,					
CERTIFICATE OF COMPLIANCE						
We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.  Type Code Symbol Stamp: Not applicable Certificate Authorization No.: Not applicable Expiration Date: Not Applicable						
Prepared by <u>Pulatip Emiles</u> Signed by <u>Plant Technical Manager</u>						
Date						
CERTIFICATE OF INSERVICE INSPECTION						
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Press Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Far Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's during the period 4/25/89 to 5/30/40 and state to the best of my knowledge and to Owner has performed examinations and taken corrective measures described in this Owner's Report accordance with the requirements of the ASME Code, Section XI.  By signing this certificate neither the Inspector nor his employer makes any warranty, expressed o concerning the examinations and corrective measures described in this Owner's Report. Furthermor the inspector nor his employer shall be liable in any manner for any personal injury or property dama loss of any kind arising from or connected with this inspection.  And Wagaath 5/30/40 Commissions 9556 W  Inspector's Signature  National Board, State, and Endo	etory s Report celief, the in r implied, e, neither age or a					
Date	and the second second					



## FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

1. Owner: Washington Public Power Supply System (WPPSS)
Address: 3000 George Washington Way, Richland, WA

Date: 8/21/90 Sheet: 1 of 1 Unit: WNP-2

2. Plant: WPPSS Nuclear Power Plant (WNP)

- 3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA
  - (b) Repair Organization P.O. No., Job No., etc.: WPPSS
- 4. Identification of System: Main Steam (MS) System
- 5. (a) Applicable Construction Code ASME Section III: 1971 Edition with Winter 1973 Addenda, Code Case: None
  - (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308 and N-416
- 6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
MS(1)-4B	WPPSS	MS(1)-4B-P3	N/A	N/A	1983	Replacement	Yes, Code Class 2
MS(1)-4C	WPPSS	MS(1)-4C-P3	N/A	N/A	1983	Replacement	Yes, Code Class 2

- 7. Description of Work: The 3/4° drain line with valves MS-V-119C/MS-V-238C and 2° drain line with valves MS-V-239/MS-V-238B removed under ASME Section XI Plan No 2-0475 were reinstalled under this plan. The reinstallation work for both the drain lines was performed as follows:
  - 1) Cut and removed the existing pipe pieces with the pipe caps from the sockolets for both the drain lines
  - 2) Cut and removed the existing pipe pieces between the valves for both the drain lines
  - 3) Installed new replacement pipe pieces and the existing valves previously removed for both the drain lines
  - 4) Made required socket welds
  - 5) Performed MT or PT examination on the final socket welds. MT/PT examination results acceptable. This NDE examination satisfied both ASME Section III, Code Class 2 and Code Case N-416 requirements
  - 6) Fabricate and installed new pipe supports for both the drain lines
  - 7) Made required welds for the new supports
  - 8) Performed MT or PT examination on the final welds. MT/PT examination results acceptable
  - 9) Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during pressure test

	FORM NIS-2 (Back)							
8.7	8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure X Other  Test Pressure: 950 Psig Test Temperature: 530 °F  Component Design Pressure: 1250 Psig Temperature: 575 °F							
hvd	9. Remarks: Visual examination (VT-2) for leakage at nominal operating pressure and temperature was performed in lieu of the required hydrostatic test as permitted by Code Case N-416. The required hydrostatic test will be performed at the end of first ISI inspection interval and the results of the test will be documented in the Inservice Inspection (ISI) Summary Report							
	CERTIFICATE OF COMPLIANCE							
	We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.  Type Code Symbol Stamp: Not applicable Certificate Authorization No.: Not applicable Expiration Date: Not Applicable  Prepared by  Signed by  Plant Technical Manager							
	Date 8/22/90 Date 8-27-90							
,								
	CERTIFICATE OF INSERVICE INSPECTION							
	I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 5-4-89 to 3-27-90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.  By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.  Commissions  PSSG W  National Board, State, and Endorsements							
	Date 8-22-90							



Date: 5/28/90

Sheet: 1 of 1

Unit: WNP-2

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

1. Owner: Washington Public Power Supply System (WPPSS)

Address: 3000 George Washington Way, Richland, WA

2. Plant: WPPSS Nuclear Power Plant (WNP)
Address: Hanford, Benton County, WA

3.(a) Work Performed by: WPPSS, 30,00 George Washington Way, Richland, WA

(b) Repair Organization P.O. No., Job No., etc.: WPPSS

4. Identification of System: Process Sample Radioactive (PSR) System

5. (a) Applicable Construction Code ASME Section III: 1974 Edition with Winter 1975 Addenda, Code Case: None

(b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
PSR-V-XTIA/1 PSR-V-XTIA/2	Target Rock Target Rock	1 4	N/A N/A	N/A N/A	1982 1982	Repair Repair	Yes, Code Class 1 Yes, Code Class 1

- 7. Description of Work: Repaired valves PSR-V-X77A/1 and PSR-V-X77A/2. The repair work was performed as follows
  - 1) Cut body to bonnet seal weld
  - 2) Removed valve internals for troubleshooting
  - 3) Reinstalled valve internals
  - 4) Installed bonnet into valve body and torqued it to the required torque value
  - 5) Made body to bonnet seal weld
  - 6) Performed PT examination on the final seal weld. PT examination results acceptable

FORM NIS-2 (Back)								
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Test Pressure: Psig Test Temperature: OF  Component Design Pressure: Psig Temperature: OF	Other X None							
9. Remarks: None								
• •								
CERTIFICATE OF COMPLIANCE								
We certify that the statements made in the report are correct and this repair conforms to to Code, Section XI.  Type Code Symbol Stamp: Not applicable Certificate Authorization No.: Not applicable Expiration Date: Not Applicable	he rules of the ASME							
Prepared by Lucip Sunds Signed by Plant Technical M	2 Ianager							
Date 5/30/90 Date 5-30-90	,							
CERTIFICATE OF INSERVICE INSPECTION								
I, the undersigned, holding a valid commission issued by the National Board of Boile Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Commutual System) of Norwood, Massachusetts have inspected the components described in during the period \( \frac{5/5/9}{2} \) to \( \frac{12/6/89}{2} \) and state to the best of my known Owner has performed examinations and taken corrective measures described in this Own accordance with the requirements of the ASME Code, Section XI.  By signing this certificate neither the Inspector nor his employer makes any warranty, concerning the examinations and corrective measures described in this Owner's Report. the inspector nor his employer shall be liable in any manner for any personal injury or process of any kind arising from or connected with this inspection.	ompany (Factory the Owner's Report wledge and belief, the ner's Report in expressed or implied, Furthermore, neither							
Dan Wagneth Commissions 9556 W  Infractor's Signature National Board, S	state, and Endorsements							
Date 5/30/40 Commissions 4556 W National Board, S	mory and anisotromistic							

## FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

Owner: Washington Public Power Supply System (WPPSS)
 Address: 3000 George Washington Way, Richland, WA

Date: 6/12/90 Sheet: 1 of 1 Unit: WNP-2

2. Plant: WPPSS Nuclear Power Plant (WNP)

- 3.(a) Work Performed by: WPPSS,3000 George Washington Way, Richland, WA
  - (b) Repair Organization P.O. No., Job No., etc.: WPPSS
- 4. Identification of System: Residual Heat Removal (RHR) System
- 5. (a) Applicable Construction Code ASME Section III: 1971 Edition with Winter 1973 Addenda, Code Case: None
  - (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
- 6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
RHR(1)-4B1	WPPSS	RHR(1)-4B1-P1	N/A	N/A	1983	Repair	Yes, Code Class 1

- 7. Description of Work: Test connection with valves RHR-V-161B and RHR-V-162B was repaired (modified). The work was performed as follows
  - 1) Beveled new replacement sockolet end and existing valve socket end for butt welding
  - 2) Performed PT examination on the beveled ends and also performed PT examination on the accessible surfaces of the sockolet to upgrade the sockolet from ASME Code Class 2 to ASME Code Class 1. PT examination results acceptable
  - 3) Installed new replacement sockolet and the test connection assembly. Made required socket welds and circumferential butt weld
  - 4)Performed PT examination on the final socket welds and PT and RT examination on the final circumferential butt weld. PT and RT examination results acceptable

4	ATSHOOTICAL	PUBLIC POSTER
	SUPPLY	SYSTEM

•							
FORM NIS-2 (Back)							
8. Tests Conducted: Hydrostatic Property Propert	Test Temperature: OF Temperature: OF Temperature: OF						
9. Remarks: None							
•	• •						
CE	RTIFICATE OF COMPLIANCE						
We certify that the statements made in to Code, Section XI.  Type Code Symbol Stamp: Not applicable Certificate Authorization No.: Not applicable Expiration Date: Not Applicable	the report are correct and this repair conforms to the rules of the ASME						
Prepared by Ruldiff S	Plant Technical Manager						
Date - 6/12/90.	Date <u>6-12-90</u>						
CERTIF	ICATE OF INSERVICE INSPECTION						
Inspectors and the State of Washington Mutual System) of Norwood, Massachus during the period 5/18/81 to Owner has performed examinations and accordance with the requirements of the By signing this certificate neither the concerning the examinations and correct	Inspector nor his employer makes any warranty, expressed or implied, ive measures described in this Owner's Report. Furthermore, neither iable in any manner for any personal injury or property damage or a						
Date <u>6/18/90</u>							



## FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

1. Owner: Washington Public Power Supply System (WPPSS)
Address: 3000 George Washington Way, Richland, WA

Date: 5/28/90 Sheet: 1 of 1 Unit: WNP-2

2. Plant: WPPSS Nuclear Power Plant (WNP)

Address: Hanford, Benton County, WA

3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA

(b) Repair Organization P.O. No., Job No., etc.: WPPSS

4. Identification of System: Residual Heat Removable (RHR) System

5. (a) Applicable Construction Code ASME Section III: 1971 Edition with Winter 1973 Addenda, Code Case: None

(b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
Rhr(1)-2B	WPPSS	RHR(1)-2B-P1 *	N/A	N/A	1982	Replacement	Yes, Code Class 2

7. Description of Work: Removed flow element RHR-FE-12 and replaced it with pancake blind flange. Pancake blind flange was installed to support work on valve RHR-V-23 with RHR loop B in service. Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during pressure test

Note: Upon completion of work on valve RHR-V-23 flow element RHR-FE-12 was reinstalled

1									
	FORM NIS-2 (Back)								
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure X Other Test Pressure: 218 Psig Test Temperature: 68 °F Component Design Pressure:500 Psig Temperature: 480 °F									
9.	Remarks: None								
ſ									
	CERTIFICATE OF COMPLIANCE								
	We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.  Type Code Symbol Stamp: Not applicable  Certificate Authorization No.: Not applicable								
	Expiration Date: Not Applicable								
	Prepared by Quicip Signed by Plant Technical Manager								
	Fixit letinical Manager								
	Date								
12	5/20/50								
<b>†</b> 1	5/20/50								
	Date S-23-90  CERTIFICATE OF INSERVICE INSPECTION  I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period S/13/89 to 4/23/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.  By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.								
43	Date								

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

MARCHUMON PUBLIC POWER SUPPLY SYSTEM

1. Owner: Washington Public Power Supply System (WPPSS)
Address: 3000 George Washington Way, Richland, WA

Date: 5/28/90 Sheet: 1 of 1 Unit: WNP-2

2. Plant: WPPSS Nuclear Power Plant (WNP)

- 3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA
  - (b) Repair Organization P.O. No., Job No., etc.: WPPSS
- 4. Identification of System: Containment Instrument Air (CIA) System
- 5. (a) Applicable Construction Code ASME Section III: 1974 Edition with Summer 1975 Addenda, Code Case: None
  - (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
- 6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
CIA-V-31B	Borg Warner	25883	N/A	N/A	1978	Repair	Yes, Code Class 2

- 7. Description of Work: Repaired valve CIA-V-31B. The repair work was performed as follows
  - 1) Cut body to bonnet seal weld
  - 2) Removed valve internals for troubleshooting
  - 3) Reinstalled valve internals
  - 4) Installed bonnet into valve body and torqued it to the required torque value
  - 5) Made body to bonnet seal weld
  - 6) Performed PT examination on the final seal weld. PT examination results acceptable

FORM NIS-2 (Back)
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other X No Test Pressure: Psig Test Temperature: OF Component Design Pressure: Psig Temperature: OF
9. Remarks: None
CERTIFICATE OF COMPLIANCE
We certify that the statements made in the report are correct and this repair conforms to the rules of the ASME Code, Section XI.  Type Code Symbol Stamp: Not applicable Certificate Authorization No.: Not applicable Expiration Date: Not Applicable
Prepared by Lucip Suib Signed by Plant Technical Manager
Date 5/30/40 Date 5.30-50
CERTIFICATE OF INSERVICE INSPECTION
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 5/27/94 to 1/15/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.  By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
Commissions 9556 W  This pector's Signature National Board, State, and Endorsements  Date 5/30/00
Date <u>5/30/90</u>



# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

 Owner: Washington Public Power Supply System (WPPSS) Address: 3000 George Washington Way, Richland, WA Date: 6/25/90 Sheet: 1 of 1 Unit: WNP-2

2. Plant: WPPSS Nuclear Power Plant (WNP)

- 3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA
  - (b) Repair Organization P.O. No., Job No., etc.: WPPSS
- 4. Identification of System: Reactor Core Isolation Cooling (RCIC) System
- 5. (a) Applicable Construction Code ASME Section III: 1971 Edition with Winter 1972 Addenda, Code Case: None
  - (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
- 6. Identification of Components Repaired or Replaced and Replacement Components

	Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
)	RCIC-V-45	Anchor Darling	2N-368	N/A	N/A	1975	Replacement	Yes, Code Class 2

- 7. Description of Work: Replaced disc for valve RCIC-V-45. The replacement work was performed as follows:
  - 1) Removed existing disc from the valve
  - 2) Assembled new replacement disc, disc nut, stem retaining ring and stem
  - 3) Tack welded the disc to the disc nut
  - 4) Performed PT examination on the final welds. PT examination results acceptable
  - 5) Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during pressure test

48	MASHORGICM F	WHITE POSTER
	SUPPLY	SYSTEM

FORM NIS-2 (Back) Pneumatic Nominal Operating Pressure X 8. Tests Conducted: Hydrostatic Test Temperature: 540 °F Test Pressure: 1005 Psig Temperature: 100 °F Component Design Pressure: 2160 Psig-9. Remarks: See attached N-2 Code Data Report for the new replacement disc Serial No 18 CERTIFICATE OF COMPLIANCE We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI. Type Code Symbol Stamp: Not applicable Certificate Authorization No.: Not applicable Expiration Date: Not Applicable Signed by Prepared by Plant Technical Manager

#### CERTIFICATE OF INSERVICE INSPÉCTION

Date

6-27-90

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period  $\frac{5/31/39}{5/30}$  to  $\frac{6/25/90}{5/30}$  and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Anspector's Signature	Commissions	956 W National Board, State, and Endorsements
Date <u>6/27/90</u>		•

Date

FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES 6/22/90 As required by the Provision of the ASME Code Rules, Section III, Div. 1

				<u></u>		المتناه والمتعارض والمتعار
a) Manufacture	d by Anchor/Darling	Valve Co.,	701 First S	t., Williams	port, PA	17.701
	d foe Washington Pub					
	•	(Memo tog squren o	LU CHATESTA HOIGH	tos combrerse pociess o	OHOUSE	
	ertificate Holder's Serial No.					
	d According to Drawing No				or/Darling	Valve Compar
(b) Description	of Part laspected Dis	c, Heat No.	8099490		SA105	,
	ASME Codet Section III, Ed					
Remarks:	4"-900#-Globe					
	A/DV Shop Order	Ket description of ea P-F407-2	eries (er which e			
	Note: No Disc H	lydro Perform	ed			ICH OHLY
				1	NEOUS WAY	101.
	the statements made in thi			-		
5124	1989 Signed	Anchor/Darii	ing valve co	). By W du	()(U)(U)(U)	N1713
rtificate of Auth	norization Expires	4/15/92	Certific	are of Authorizati	oa No	141712
<del></del>	CERTIFICATION	of design for	APPURTENA	NCE (when appl	icable)	
Design informa	cion on file at				, <u>.</u>	· ·
Stress analysis	report on file at		•			,
Design specific	cations certified by			Prof. Eng. Scat	e R	eg. No
	s report certified by			Prof. Eng. Scar		
	C	ERTIFICATE O	f shop insp	CTION		
I, the under	raigned, holding a valid co	mpission issued b	y the National E	loard of Boiler and	Pressure Ves	sel Inspectors
and/or the Stat	n Mass. Penns	yivania ee	i employed by Co	ommercial Uni	on Insura	uce company
Partial Data Res and belief, the h By signing ing the part	port on 5-12-99  NPT Certificate Holder has completed in this Pare in any manner for any p	onstructed this part the Inspector nor his that Data Report	26-99 in accordance wi s employer make . Furthermore	19 and state the the ASME Code S any warranty, ex neither the In	iat to the best of ection III. pressed or imp spector nor	my knowledge plied, concern- his employer
Date	- 11	9				
Mac	les Horina		kmissions	Pennsylvani		
	alina 77			M M	State, Province	and Ma.



# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

Owner: Washington Public Power Supply System (WPPSS)
 Address: 3000 George Washington Way, Richland, WA

Date: 6/5/90 Sheet: 1 of 1 Unit: WNP-2

2. Plant: WPPSS Nuclear Power Plant (WNP)

Address: Hanford, Benton County, WA

3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA

(b) Repair Organization P.O. No., Job No., etc.: WPPSS

4. Identification of System: Containment Instrument Air (CIA) System

5. (a) Applicable Construction Code ASME Section III: 1971 Edition with Winter 1973 Addenda, Code Case: None

(b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
CIA(3)-2	WPPSS	CIA(3)-2-P1	N/A	N/A	1983	Replacement	Yes, Code Class 2

7. Description of Work: Replaced damaged flex hose CIA-FLX-1C and installed blind flanges in place. Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during pressure test

FORM NIS-2	(Back)
8. Tests Conducted: Hydrostatic Pneumatic N Test Pressure: 105 Psig Component Design Pressure: 200 Psig	ominal Operating Pressure X Other Test Temperature: 81 °F Temperature: 340 °F
9. Remarks: None	
•	
CERTIFICATE OF C	OMPLIANCE
We certify that the statements made in the report are corre ASME Code, Section XI.  Type Code Symbol Stamp: Not applicable Certificate Authorization No.: Not applicable Expiration Date: Not Applicable	ct and this replacement conforms to the rules of the
	ed by Plant Technical Manager
Date 6/5/90 Da	te <u>6-5-90</u>
CERTIFICATE OF INSER	WICE INCRECTION
I, the undersigned, holding a valid commission issued to Inspectors and the State of Washington and employed by A Mutual System) of Norwood, Massachusetts have inspected during the period 5/24/89 to 5/23/90 at Owner has performed examinations and taken corrective maccordance with the requirements of the ASME Code, Section 1.	rkwright Mutual Insurance Company (Factory the components described in the Owner's Report of state to the best of my knowledge and belief, the easures described in this Owner's Report in ion XI.
By signing this certificate neither the Inspector nor his concerning the examinations and corrective measures describe inspector nor his employer shall be liable in any mannel loss of any kind arising from or connected with this inspect	ibed in this Owner's Report. Furthermore, neither for any personal injury or property damage or a
Inspector's Signature  Commission  Commiss	ns 9556 W National Board, State, and Endorsements
Date <u>6/5/90</u>	vational board, state, and endoisements



# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

1. Owner: Washington Public Power Supply System (WPPSS)
Address: 3000 George Washington Way, Richland, WA

Date: 5/26/90 Sheet: 1 of 1 Unit: WNP-2

2. Plant: WPPSS Nuclear Power Plant (WNP)

Address: Hanford, Benton County, WA

- 3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA
  - (b) Repair Organization P.O. No., Job No., etc.: WPPSS
- 4. Identification of System: Diesel Cooling Water (DCW) System
- 5. (a) Applicable Construction Code ASME Section III: 1974 Edition with Winter 1974 Addenda, Code Case: None
  - (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
- 6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
DCW-HX-1A2	ASHT	8-20004-01 1	29365	N/A	1976	Repair	Yes, Code Class 3

- 7. Description of Work: Weld repaired (weld build up) corroded areas on the channel cover plate and divider plate edge. The repair work was performed as follows
  - 1) Weld repaired the corroded areas
  - 2) Blended the weld repaired areas
  - 3) Performed MT examination on the weld repaired areas. MT examination results acceptable

ASHT - American Standard Heat Transfer Division

	FORM NIS-2 (Back)
. Tests Co	nducted: Hydrostatic Pneumatic Nominal Operating Pressure Other X No Test Pressure: Psig Test Temperature: °F Component Design Pressure: Psig Temperature: °F
. Remarks	: None
	•
	CERTIFICATE OF COMPLIANCE
	ify that the statements made in the report are correct and this repair conforms to the rules of the ASME
	ection XI. ode Symbol Stamp: Not applicable
	ate Authorization No.: Not applicable ion Date: Not Applicable
Prepare	ed by Lulain Signed by Plant Technical Manager
Date	5/30/90 Date : 5-30-90
Date	
	CERTIFICATE OF INSERVICE INSPECTION
	the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vesse
	ors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory System) of Norwood, Massachusetts have inspected the components described in the Owner's Report
during t	the period $\frac{6/2/89}{}$ to $\frac{1/29/90}{}$ and state to the best of my knowledge and belief, the
	has performed examinations and taken corrective measures described in this Owner's Report in nee with the requirements of the ASME Code, Section XI.
	igning this certificate neither the Inspector nor his employer makes any warranty, expressed or implied.
	ing the examinations and corrective measures described in this Owner's Report. Furthermore, neither
	ector nor his employer shall be liable in any manner for any personal injury or property damage or a any kind arising from or connected with this inspection.
l	Am Ologonto Commissions 9556W
	Am Obegan Commissions 9550 W Inspector's Signature National Board, State, and Endorsements
Date	.5/30/90



#### FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

1. Owner:	Washington Pu	blic Power S	upply System	(WPPSS
Addres	s: 3000 George	Washington	Way, Richlan	nd, WA

Date: 6/3/90

Sheet: 1 of 1

2. Plant: WPPSS Nuclear Power Plant (WNP)

Unit: WNP-2

Address: Hanford, Benton County, WA

3.(a) Work Performed by: WPPSS,3000 George Washington Way, Richland, WA

Û

(b) Repair Organization P.O. No., Job No., etc.: WPPSS

4. Identification of System: Process Sample Radioactive (PSR) System

5. (a) Applicable Construction Code ASME Section III: 1974 Edition with Winter 1975 Addenda, Code Case: None

(b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
PI(1)-4S- X77AC	JCI	PI(1)-4S-X77AC	N/A	N/A	1983	Repair	Yes, Code Class NF (1)

7. Description of Work: Removed support material to facilitate rework on valve PSR-V-X77A/2. Upon completion of work on the valve, the support material was reinstalled. Made required welds for the support material

	FORM NIS-2 (Back)
8.	Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other X None Test Pressure: Psig Temperature: °F Component Design Pressure: Psig Temperature: °F
9.	Remarks: None
	A - '
,	
	CERTIFICATE OF COMPLIANCE
	We certify that the statements made in the report are correct and this repair conforms to the rules of the ASME Code, Section XI.
	Type Code Symbol Stamp: Not applicable Certificate Authorization No.: Not applicable
	Expiration Date: Not Applicable
·	Prepared by Buldish Signed by Plant Technical Manager
ı	C12150
	Date Date
, ' 1	
	CERTIFICATE OF INSERVICE INSPECTION
	I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel
	Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report
	during the period 6/14/89 to 12/6/89 and state to the best of my knowledge and belief, the
	Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.
	By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied,
	concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a
	loss of any kind arising from or connected with this inspection.
	Inspector's Signature National Board, State, and Endorsements  Date 6/4/60
	Date 6/4/90 -
Į	

PLAN NO. 2-0523-1 And 2

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

1. Owner: Washington Public Power Supply System (WPPSS)

Date: 6/5/90

Address: 3000 George Washington Way, Richland, WA

Sheet: 1 of 1 Unit: WNP-2

2. Plant: WPPSS Nuclear Power Plant (WNP)

Address: Hanford, Benton County, WA

3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA

(b) Repair Organization P.O. No., Job No., etc.: WPPSS

4. Identification of System: Service Water (SW) System

5. (a) Applicable Construction Code ASME Section III: 1971 Edition with Winter 1973 Addenda, Code Case: None

(b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
SW(1)-2	wppss	SW(1)-2-P1	N/A	N/A	1983	Replacement	Yes, Code Class 3

- 7. Description of Work: Replaced existing valves SW-V-214 and SW-V-215 and installed spacer rings. The replacement work was performed as follows:
  - 1) Machined spacer rings to the required design dimensions
  - 2) Removed existing valves and installed spacer rings in place
  - 3) Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during pressure test

PLAN NO. 2-0523-1 And 2

FORM NIS-2 (Back)
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure X Other  Test Pressure: 211 Psig Test Temperature: 68 °F  Component Design Pressure: 309 Psig Temperature: 150 °F
9. Remarks: None
CERTIFICATE OF COMPLIANCE
We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.  Type Code Symbol Stamp: Not applicable Certificate Authorization No.: Not applicable Expiration Date: Not Applicable  Prepared by     Culary   Signed by   Flant Technical Manager   Date   6/5/90   Date   6-5-90   Date   6-5-90   Date   6-5-90   Date   Conforms to the rules of the rule
CEDITIES OF INSERVICE INSPECTION
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 4/2/81 to /2/4/89 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.  By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.  Commissions  9556W  National Board, State, and Endorsements
Date 6/5/90 .

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

Owner: Washington Public Power Supply System (WPPSS)
 Address: 3000 George Washington Way, Richland, WA

Date: 6/5/90 Sheet: 1 of 1 Unit: WNP-2

2. Plant: WPPSS Nuclear Power Plant (WNP)

- 3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA
  - (b) Repair Organization P.O. No., Job No., etc.: WPPSS
- 4. Identification of System: Service Water (SW) System
- 5. (a) Applicable Construction Code ASME Section III: 1971 Edition with Winter 1973 Addenda, Code Case: None
  - (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
- 6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
SW(2)-2	WPPSS	SW(2)-2-P1	N/A	N/A	1983	Replacement	Yes, Code Class 3

- 7. Description of Work: Replaced existing valves SW-V-216 and SW-V-217 and installed spacer rings. The replacement work was performed as follows:
  - 1) Machined spacer rings to the required design dimensions
  - 2) Removed existing valves and installed spacer rings in place
  - 3) Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during pressure test

PLAN NO. 2-0524-1 And 2

FORM NIS-2 (Back)
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure X Other  Test Pressure: 222 Psig Test Temperature: 60 °F  Component Design Pressure: 309 Psig Temperature: 150 °F
9. Remarks: None
•
CERTIFICATE OF COMPLIANCE
We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.  Type Code Symbol Stamp: Not applicable
Certificate Authorization No.: Not applicable Expiration Date: Not Applicable
Prepared by Qual Signed by Plant Technical Manager
Date 6/5/90 Date 6-5-90
CERTIFICATE OF INSERVICE INSPECTION
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period \( \frac{\left{64} \frac{\left{69}}{\left{69}} \) to \( \frac{\left{26} \left{69}}{\left{69}} \) and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.  By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
Dan Horgaris Commissions 9556 W
Inspector's Signature National Board, State, and Endorsements
Date <u>6/5/90</u>

#### FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

1. Owner (Name)	Washington F	Public Power Su	Date/C	14169.						
Owner (Address)_	3000 George	Sheet 1	2 1							
	WPPSS Nuclear	Unit	WNP-2							
Plant (Address)	Honford Bonton County WA						WPPSS			
3. Work Performed b	v (Name)	WPPSS		Repair Organization P.O. No., Job No., etc.						
Work Performed b		000 George	Washingt	ton Way,	Richla	ind, WA				
4. Identification of Sy	rstemMa	ain Steam (	MS) Syst	tem		b 89				
(b) Applicable Edit Addenda,	tion of ASME Sec					Addenda, None 80 Edition, Win				
6. Identification of Co			ed and Rep	lacement C	omponen	ts '				
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I. D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class			
IS-TK-2C	Jet Air	N-133	N/A	N/A	1980	Replacement	Yes, Class			
							*			
•				ar-	d.		-			
		•								

Replaced bottom drain plug for MS-TK-2C. The replacement work was performed as follows:

- Machined new replacement plug
- Installed new replacement plug 2.
- Performed pressure test to confirm pressure boundary integrity. Leakage was observed during pressure test and was evaluated to be acceptable.





## FORM NIS-2 (Back)

8. Tests Conducted:	Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other ☐
9. Remarks:	
NOHE	
	•
•	•
	CERTIFICATE OF COMPLIANCE
We certify that of the ASME Code,	the statements made in the report are correct and this repar or replacement conforms to the rules Section XI.
Type Code Symbol	Stamp Not applicable
Certificate Authoriza	ation No. Not applicable Expiration Date Not applicable
	Title Plant Technical Manager  wher or Owner's Designee.
Date	10-4 19.89
	CERTIFICATE OF INSERVICE INSPECTION
Inspectors and the	signed, holding a valid commission issued by the National Board of Boiler and Pressure Vessel State of Washington and employed by Lumbermen's Mutual
Casualty C	o. of Illinois have inspected the components described bort during the period 6/24/89 to 10/4/89
and state that to the	e best of my knowledge and belief, the Owner has performed examinations and taken corrective and in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.
•	his certificate neither the Inspector nor his employer makes any warranty, expressed or implied,
1 -	minations and corrective measures described in this Owner's Report. Furthermore, neither the In- ployer shall be liable in any manner for any personal injury or property damage or a loss of any kind
1	nected with this inspection.
W.S.L	Commissions 7447W - B.N.T. Inspector's Signature National Board, State, and Engorsements
Date OCTO	3ER 4 19 89
L	

## FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS . As Required by the Provisions of the ASME Code Section XI

o. (Name)	Washington P	ublic Power Su	pply Systen	n .		Date	1/22/89
Owner (Address)	3000 George	Washington W	ay, Richlan	d, WA		Sheet 1	of 1
•	WPPSS Nuclear	Power Plant (W	/NP)			Unit	WNP-2
Plant (Address)	Hanford Boston County WA						
Work Performed b	v (Name) WP	PSS		<del></del>	Repair	Organization P.O. 1	No., Job No., etc.
Work Performed b	20	00 George k	lashingto	on Way;	Richla	nd, WA	
4. Identification of Sy	T	strument Li	ine				
<ul> <li>5. (a) Applicable Co</li> <li>(b) Applicable Edinate</li> <li>Addenda,</li> <li>6. Identification of C</li> </ul>	tion of ASME Sec N308 C	ction XI Utilized	for Repairs	or Replacer	nents 19.	80 Edition, Wir	one Code Case
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I. D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
PI(1)-4S-X82d	JCI	N/A	N/A	N/A	1983	Replacement	Yes, Class 2
						•	

7. Description of Work:

Installed missing support material. The replacement work was performed as follows:

- Installed angle iron by welding.
  Installed U-bolt and associated bolting material.

## FORM NIS-2 (Back)

8. Tests Conducted: Hydrostatic □ Pneumatic □ Nominal Operating Pressure □ Other ☑ None\_

Test Pressurepsig, Test Temp°F	
Component Design Pressurepsig, Temp°F	
9. Remarks:	
Neme	
None	
• •	
·	
4	
- CERTIFICATE OF COMPLIANCE	
We certify that the statements made in the report are correct and this replacement conforms t	o the rules
of the ASME Code, Section XI.	
Type Code Symbol Stamp Not applicable	
type code symbol stamp	
Certificate Authorization No. 2 Not applicable Expiration Date Not applicable	
Certificate Authorization No. 2 Not applicable Expiration Date Not applicable	<del></del>
Signed Signed Title Plant Technical Manager	<del></del>
M. Sup by Owner or Owner's Designee,	
Date Sept, 22 19 89	
Date	
CERTIFICATE OF INSERVICE INSPECTION	
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pres	
Inspectors and the State of <u>Washington</u> and employed by <u>Lumbermen's Mutua</u>	<u>u</u>
Casualty Co. of Illinois have inspected the component	s described
in this Owner's Report during the period 6/30/89 to 9/18/89	
and state that to the best of my knowledge and belief, the Owner has performed examinations and taken	corrective
measures described in this Owner's Report in accordance with the requirements of the ASME Code, S	
Du signing this entitlests without the Inspector and his ample, as makes any ways att.	on implied
By signing this certificate neither the Inspector nor his employer makes any warranty, expressed	•
concerning the examinations and corrective measures described in this Owner's Report. Furthermore, ne	
spector nor his employer shall be liable in any manner for any personal injury or property damage or a loss	of any kind
arising from or connected with this inspection.	
Commissions 9556 W	
Inspector's Signature National Board, State, and Endorsem	ents
0/22 50	•
Date1987	
*	ľ



# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

1. Owner: Washington Public Power Supply System (WPPSS)
Address: 3000 George Washington Way, Richland, WA

Date: 5/26/90 Sheet: 1 of 1 Unit: WNP-2

2. Plant: WPPSS Nuclear Power Plant (WNP)

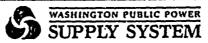
Address: Hanford, Benton County, WA

- 3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA
  - (b) Repair Organization P.O. No., Job No., etc.: WPPSS
- 4. Identification of System: Process Instrumentation (PI) System
- 5. (a) Applicable Construction Code ASME Section III: 1974 Edition with Winter 1975 Addenda, Code Case: None
  - (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
- 6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
PI-VX-265	Target Rock	10	N/A	N/A	1980	Repair	Yes, Code Class 2

- 7. Description of Work: Repaired valve PI-VX-265. The repair work was performed as follows
  - 1) Cut body to bonnet seal weld
  - 2) Removed valve internals for troubleshooting
  - 3) Reinstalled valve internals
  - 4) Installed bonnet into valve body and torqued it to the required torque value
  - 5) Made body to bonnet seal weld
  - 6) Performed PT examination on the final seal weld. PT examination results acceptable

	FORM NIS-2 (Back)
. 8 <b>.</b>	Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other X  Test Pressure: Psig Test Temperature: °F  Component Design Pressure: Psig Temperature: °F
9.	Remarks: None
	·
	•
	CERTIFICATE OF COMPLIANCE
	We certify that the statements made in the report are correct and this repair conforms to the rules of the ASME
,	Code, Section XI.  Type Code Symbol Stamp: Not applicable
	Certificate Authorization No.: Not applicable  Expiration Date: Not Applicable
	Prepared by Quiden Signed by Signed by
	Plant Technical Manager
•4	Date
	CERTIFICATE OF INSERVICE INSPECTION
	I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory
	Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 7/13/89 to 4/26/90 and state to the best of my knowledge and belief, the
	Owner has performed examinations and taken corrective measures described in this Owner's Report in
	accordance with the requirements of the ASME Code, Section XI.  By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied,
	concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a
	loss of any kind arising from or connected with this inspection.
	Am Hoggarth Commissions 9556W
	Inspector's Signature National Board, State, and Endorsements
	Date <u>5/30/90</u>



# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Côde Section XI

			1				
1. Owner (Name)	Washington P	ublic Power Su	pply Systen	n		Date	116/89
Owner (Address)_	3000 George	Washington W	ay, Richlan	id, WA		Sheet	1 of 1
, , , , , , , , , , , , , , , , , , , ,	WPPSS Nuclear	Power Plant (M	(NP)	<del>- 22 - 21 - 21 - 21 - 21 - 2</del>		Unit	WNP-2
Plant (Address)	Hanford, B	enton County, V	VA.			WPPSS	
		PPSS	- <del></del>	<del></del>	Repair	Organization P.O. 1	Vo., Job No., etc.
3. Work Performed b	· , (· · · · · · · · )		e Washir	naton Wa	v. Ric	hland. WA	
Work Performed b							<del></del>
4. Identification of S		•					
5. (a) Applicable Co							
(b) Applicable Ed	ition of ASME Sec	tion XI Utilized	for Repairs	or Replacer	nents 19	80 Edition, W	180
Addenda,	N308C	ode Case			•		
6. Identification of C			d and Repi	acement C	omponer	nts	
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
CIA-V-60A	. BW	25900	N/A	N/A	1977	Repair	Yes, Class 2
•		-					
			•	•			1

7. Description of Work:

Repaired valve CIA-V-60A. The repair work was performed as follows:

- 1) Cut body to bonnet seal weld.
- 2) Removed valve internals for trouble shooting.
- . 3) Reinstalled valve internals.
- 4) Installed bonnet into valve body and torqued it to the required torque value.
- 5) Made body to bonnet seal weld.
- 6) Performed PT examination on final seal weld. PT examination results acceptable.

BW - Borg Warner

## FORM NIS-2 (Back)

8. Tests Conducted: Hydrostatic 🗆 Pneumatic 🗆 Nominal Operating Pressure 🗆 Other 🗯 None

Test Pressure psig, Test Temp Component Design Pressure psig, Temp	°F
· · · · · · · · · · · · · · · · · · ·	°F
9. Remarks:	
	•
	•
4	
	•
yr .	
•	
	<del></del>
CERTIFICATE OF COMPLIANCE	
	*
We certify that the statements made in the report are correct and this	conforms to the rules
of the ASME Code, Section XI.	
Type Code Symbol Stamp Not applicable	
	-
Certificate Authorization No. Not applicable Expiration Date	Not applicable
10 11	
Signed Title Plant Tech	nnical Manager
Zeuph Owner's Designes,	
निहारी है ।	
Date19_87	
	<del></del>
	1
CERTIFICATE OF INSERVICE INSPECTION	
<b>f</b>	-
I, the undersigned, holding a valid commission issued by the National Board	of Boiler and Pressure Vessel
I, the undersigned, holding a valid commission issued by the National Board Inspectors and the State of Washington and employed by L	umbermen's Mutual
I, the undersigned, holding a valid commission issued by the National Board Inspectors and the State of Washington and employed by Casualty Co. of Illinois have inspectors.	umbermen's Mutual cted the components described
I, the undersigned, holding a valid commission issued by the National Board Inspectors and the State of Washington and employed by Casualty Co. of Illinois have inspecting this Owner's Report during the period 9/25/59 to	umbermen's Mutual cted the components described ///c/59
I, the undersigned, holding a valid commission issued by the National Board Inspectors and the State of Washington and employed by Lasualty Co.  Of Illinois have inspecting this Owner's Report during the period 9/25/59 to and state that to the best of my knowledge and belief, the Owner has performed examples.	umbermen's Mutual cted the components described ///c/59 ninations and taken corrective
I, the undersigned, holding a valid commission issued by the National Board Inspectors and the State of Washington and employed by Casualty Co. of Illinois have inspecting this Owner's Report during the period 9/25/59 to	umbermen's Mutual cted the components described ///c/59 ninations and taken corrective
I, the undersigned, holding a valid commission issued by the National Board Inspectors and the State of Washington and employed by Casualty Co. of Illinois have inspecting this Owner's Report during the period 9/25/59 to and state that to the best of my knowledge and belief, the Owner has performed exammeasures described in this Owner's Report in accordance with the requirements of	umbermen's Mutual cted the components described ///c/5/ ninations and taken corrective the ASME Code, Section XI.
I, the undersigned, holding a valid commission issued by the National Board Inspectors and the State of Washington and employed by Last Co. Of Illinois have inspecting this Owner's Report during the period 9/25/59 to and state that to the best of my knowledge and belief, the Owner has performed exammeasures described in this Owner's Report in accordance with the requirements of By signing this certificate neither the Inspector nor his employer makes any washington.	umbermen's Mutual cted the components described ///c/59 ninations and taken corrective the ASME Code, Section XI. varranty, expressed or implied,
I, the undersigned, holding a valid commission issued by the National Board Inspectors and the State of Washington and employed by Laure inspection this Owner's Report during the period 9/25/89 to and state that to the best of my knowledge and belief, the Owner has performed exammeasures described in this Owner's Report in accordance with the requirements of By signing this certificate neither the Inspector nor his employer makes any we concerning the examinations and corrective measures described in this Owner's Report.	umbermen's Mutual cted the components described ///c/59 ninations and taken corrective the ASME Code, Section XI. varranty, expressed or implied, ort. Furthermore, neither the In-
I, the undersigned, holding a valid commission issued by the National Board Inspectors and the State of Washington and employed by Laure inspectors and the State of Washington and employed by Laure inspection this Owner's Report during the period P25/89 to and state that to the best of my knowledge and belief, the Owner has performed exammeasures described in this Owner's Report in accordance with the requirements of By signing this certificate neither the Inspector nor his employer makes any we concerning the examinations and corrective measures described in this Owner's Report spector nor his employer shall be liable in any manner for any personal injury or proper	umbermen's Mutual cted the components described ///c/59 ninations and taken corrective the ASME Code, Section XI. varranty, expressed or implied, ort. Furthermore, neither the In-
I, the undersigned, holding a valid commission issued by the National Board Inspectors and the State of Washington and employed by Laure inspection this Owner's Report during the period 9/25/89 to and state that to the best of my knowledge and belief, the Owner has performed exammeasures described in this Owner's Report in accordance with the requirements of By signing this certificate neither the Inspector nor his employer makes any we concerning the examinations and corrective measures described in this Owner's Report	umbermen's Mutual cted the components described ///c/59 ninations and taken corrective the ASME Code, Section XI. varranty, expressed or implied, ort. Furthermore, neither the In-
I, the undersigned, holding a valid commission issued by the National Board Inspectors and the State of Washington and employed by Land Education of Illinois have inspecting this Owner's Report during the period of Action of A	umbermen's Mutual cted the components described ///c/59 ninations and taken corrective the ASME Code, Section XI. varranty, expressed or implied, ort. Furthermore, neither the In-
I, the undersigned, holding a valid commission issued by the National Board Inspectors and the State of Washington and employed by Laure inspectors and the State of Washington and employed by Laure inspection this Owner's Report during the period P25/89 to and state that to the best of my knowledge and belief, the Owner has performed exammeasures described in this Owner's Report in accordance with the requirements of By signing this certificate neither the Inspector nor his employer makes any we concerning the examinations and corrective measures described in this Owner's Report spector nor his employer shall be liable in any manner for any personal injury or proper	umbermen's Mutual cted the components described ///c/59 ninations and taken corrective the ASME Code, Section XI. varranty, expressed or implied, ort. Furthermore, neither the In-
Inspectors and the State of Washington and employed by Land employer during the period Part for to and state that to the best of my knowledge and belief, the Owner has performed exam measures described in this Owner's Report in accordance with the requirements of By signing this certificate neither the Inspector nor his employer makes any we concerning the examinations and corrective measures described in this Owner's Report spector nor his employer shall be liable in any manner for any personal injury or proper ansing from or connected with this inspection.	umbermen's Mutual cted the components described ///c/59 ninations and taken corrective the ASME Code, Section XI. varranty, expressed or implied, ort. Furthermore, neither the In-
I, the undersigned, holding a valid commission issued by the National Board Inspectors and the State of Washington and employed by Land Education of Illinois have inspecting this Owner's Report during the period of Action of A	umbermen's Mutual cted the components described ///c/59 ninations and taken corrective the ASME Code, Section XI. varranty, expressed or implied, ort. Furthermore, neither the In-
I, the undersigned, holding a valid commission issued by the National Board Inspectors and the State of Washington and employed by Land Educated Co. Of Illinois have inspecting this Owner's Report during the period of Authority of the Owner has performed examineasures described in this Owner's Report in accordance with the requirements of By signing this certificate neither the Inspector nor his employer makes any was concerning the examinations and corrective measures described in this Owner's Report in any manner for any personal injury or proper arising from or connected with this inspection.  Commissions Authority Owner's Signature Commissions Authority Owner's Report National Commissions Owner's Report Owner's Signature Commissions Owner's Report Owner's Signature Commissions Owner's Report Owner's Signature Commissions Owner's Signature Owner's Signature Commissions Owner's Signature Owner's S	umbermen's Mutual cted the components described ///c/59 ninations and taken corrective the ASME Code, Section XI. varranty, expressed or implied, ort. Furthermore, neither the In-



Date: 5/26/90

Sheet: 1 of 1

Unit: WNP-2

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

1. Owner: Washington Public Power Supply System (WPPSS)

Address: 3000 George Washington Way, Richland, WA

2. Plant: WPPSS Nuclear Power Plant (WNP)

Address: Hanford, Benton County, WA

3.(a) Work Performed by: Bechtel Construction, Incorporation

(b) Repair Organization P.O. No., Job No., etc.: PO Box 600, Richland, WA

4. Identification of System: Instrument Lines

5. (a) Applicable Construction Code ASME Section III: 1974 Edition with Winter 1975 Addenda, Code Case: None

(b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308

6. Identification of Components Repaired or Replaced and Replacement Components

Name of	Name of	Manufacturer	National	Other	Year	Repaired,	ASME Code
Component	Manufacturer	Serial No.	Board	I.D.	Built	Replaced, or	Stamped
1			No.			Replacement	(Yes or No)
					1	_	Code Class
D-220-9.0-H22- P21	JCI	•	N/A	NAA	1983	Replacement	Yes, Code Class 2 & 3
D-220-1.1-H22- P9	JCI	•	N/A	N/A	1983	Replacement	Yes, Code Class 2 & 3
D-220-1.1-H22- P27	JCI	•	N/A	N/A	1983	Replacement	Yes, Code Class 2
D-220-63.0-IR-	1CI	•	N/A	N/A	1983	Replacement	Yes, Code Class 2
73 D-220-3500- 25.0-CMS-LT-2	ıcı	•	N/A	N/A	1983	Replacement	Yes, Code Class 2

7. Description of Work: Replaced cap screws for tubing supports (block clamps). The replacement work was performed as follows
1) Removed existing carbon steel cap screws and replaced them with stainless steel cap screws

<sup>\*</sup> Same as name of the component

	FORM NIS-2 (Back)
8.	Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other X None Test Pressure: Psig Test Temperature: °F Component Design Pressure: Psig Temperature: °F
9.	Remarks: None
	CERTIFICATE OF COMPLIANCE
	We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.  Type Code Symbol Stamp: Not applicable  Certificate Authorization No.: Not applicable  Expiration Date: Not Applicable
,	Prepared by Quidip Said Signed by Plant Technical Manager
	Date 5/30/90 Date 5-5-30-90
	CERTIFICATE OF INSERVICE INSPECTION
	I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 1/128/89 to 5/31/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.  By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
	Studybagan Commissions 9556 W Inspector's Signature National Board, State, and Endorsements  Date 5/21/20
	Date <u>\$\langle 3\  \langle 90</u>



# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

1. Owner: Washington Public Power Supply System (WPPSS)
Address: 3000 George Washington Way, Richland, WA

Date: 7/13/90 Sheet: 1 of 1 Unit: WNP-2

2. Plant: WPPSS Nuclear Power Plant (WNP)

Address: Hanford, Benton County, WA

- 3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA
  - (b) Repair Organization P.O. No., Job No., etc.: WPPSS
- 4. Identification of System: Low Pressure Core Spray (LPCS) System
- 5. (a) Applicable Construction Code ASME Section III: 1974 Edition with Winter 1974 Addenda, Code Case: None
  - (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
- 6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
LPCS-RV-31	Lonergan	509258-71-1	N/A	N/A	1975	Replacement	Yes, Code Class 2

7. Description of Work: Replaced spring steps (washers) and spring for relief valve LPCS-RV-31. The replacement work was performed as follows:

Removed existing spring steps and spring and installed new replacement spring steps and spring

> Note: Spring steps and spring were replaced to lower the relief valve set pressure from 97 PSIG to 84 PSIG

<b>(2)</b>	XASHINGTON I	PUBLIC POWER
S	SUPPLY	SYSTEM

FORM NIS-2 (Back)
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other X Non Test Pressure: Psig Test Temperature: °F Component Design Pressure: Psig Temperature: °F
9. Remarks: None
CERTIFICATE OF COMPLIANCE
We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.  Type Code Symbol Stamp: Not applicable Certificate Authorization No.: Not applicable Expiration Date: Not Applicable  Prepared by    Signed by   Plant Technical Manager
CERTIFICATE OF INSERVICE INSPECTION
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel. Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 1-15-90 to 7-13-90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.  By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.    Commissions 9556 W   National Board, State, and Endorsements

Date: 6/12/90

Sheet: 1 of 1

Unit: WNP-2

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

1. Owner: Washington Public Power Supply System (WPPSS)

Address: 3000 George Washington Way, Richland, WA

2. Plant: WPPSS Nuclear Power Plant (WNP)

Address: Hanford, Benton County, WA

3.(a) Work Performed by: Bechtel Construction, Incorporation

(b) Repair Organization P.O. No., Job No., etc.: PO Box 600, Richland, WA

4. Identification of System: Residual Heat Removal (RHR) System

5. (a) Applicable Construction Code ASME Section III: 1971 Edition with Summer 1971 Addenda, Code Case: None

(b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
RHR-P-2A	Ingersoll-Rand Co	0473113		N/A	1974	Replacement	Yes, Code Class 2

- 7. Description of Work: Replaced flex hose RHR-FLX-2A for pump RHR-P-2A seal cooler piping. The replacement work was performed as follows
  - 1) Cut and removed section of existing piping material
  - 2) Installed new replacement piping material
  - 3) Made required socket welds
  - 4) Performed PT examination on the final socket welds. PT examination results acceptable
  - 5) Installed new replacement flex hose

4	MASHIDIGATION	PURIOR POSERI
	SUPPLY	SYSTEM

FORM NIS-2 (Back)
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other X No Test Pressure: Psig Test Temperature: OF Component Design Pressure: Psig Temperature: OF
9. Remarks: See attached NPP-1 Code Data Report for new replacement flex hose RHR-FLX-2A, Serial No 001
CERTIFICATE OF COMPLIANCE
We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.
Type Code Symbol Stamp: Not applicable
Certificate Authorization No.: Not applicable
Expiration Date: Not Applicable
Prepared by Lucip Sures Signed by Plant Technical Manager
Date 6/12/90. Date 5-/2-90
CERTIFICATE OF INSERVICE INSPECTION
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel
Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory
Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report
during the period $\frac{2/22/90}{2}$ to $\frac{6/12/90}{2}$ and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in
accordance with the requirements of the ASME Code, Section XI.
By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied,
concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a
loss of any kind arising from or connected with this inspection.
Ann Wordson Commissions 9557011)
Inspector's Signature Commissions 9556 W  National Board, State, and Endorsements
Date 6/12/90

## FORM NPP-1 DATA REPORT FOR FABRICATED NUCLEAR PIPING SUBASSEMBLIES\* (As Required by the Provisions of the ASME Code Rules)

<u></u>	Fabricated by Metal Bellows Div. of Parker Hannifin Corp. Order No. A11559
2.	Fabricated for Washington Public Power Supply System Order No. 97147
3.	System System WNP #2, Richland, WA 99352 Owner Washington Public Power Supply. Location of Plant WNP #2, Richland, WA 99352
5.	Piping System Identification Flexible Metal Hose Assy.  (Brief description of intended use, main coolant etc.)
	(a) Drawing No. 86771-1 Prepared by Metal Bellows Div. of Parker Hannifin Corp. (b) National Board No
6.	The material, design, construction, and workmanship complies with ASME Code Section III, Class 2  Edition 1971, Addenda Date W*73, Case No. N-192-2
	Remarks: Manufacturers' Data Reports properly Identified and signed by Commissioned Inspectors have been furnished for
	the following items of this report (Name of Part - Item number, Manufacturer's name, and Identifying stamp)
	Shop Hydrostatic Test 10 Min. @ 760 psi.
8.	Description of piping inspected 86771-1 Bellows; SA249 Type 321 .50" O.D. x .016" thick : (include-mark nomaterial specnom. pipenty schedule or thickness-length straight tube. Adaptor; SA479 Type 304, one.
	Stub End; SA403 Type 304 .50" IPS Sch. 40 (MOD), one. Flange; SA182 Type 316
	.50" IPS 600# LJ, one. Total length 16.68". Design pressure 500 PSIG @ 480° F.
	Design verification by analysis per NC3649.4(e)(1) and Code Case N-192-2.
	Installation to be by Customer/Owner per IM78609. Metal Bellows Part No.
	86771-1 S/N's 001, 002. EPN NO. SERIAL NO.
	RHR-FLX-ZA 001  RHR-FLX-ZC 002. Puldip En
•	RHR-FLX-2C 002. Puldip En
	We certify that the statements made in this report are correct and that the fabrication of the described piping conforms with the requirements of SECTION III of the ASME BOILER AND PRESSURE VESSEL CODE.  Date 4-29-89 Signed Et al Bellows Div. By Signed Et al Bellows Div. By Signed Et al Bellows Div.
_	Certificate of Authorization Expires Sept. 25, 1990 Cartificate of Authorization No. N-2512
	CERTIFICATE OF SHOP INSPECTION  I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of California and employed by L.M.C. of Long Grove, Ill. have inspected the piping described in this Data Report on 1981, and state that to the best of my knowledge and belief, the Manufacturer has constructed this piping in accordance with the applicable Subsections of ASME Code.
	Section III.  By signing this certificate, neither the Inspector nor his employer make any warranty, expressed or implied, concembing the piping in this Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

#### 9. Description of Field Fabrication

EPN NO SERIAL NO RHR-FLX-ZA OOI RHR-FLX-ZC OOZ

Puldip Emis

ESSURE VESSEL CODE, Class			ection III of the Asme Botler A
	,		•
Signed	(Fabricator)	By	(Representative)
Certification of Authorization to use the		•	
Elicate of Authorization No	•	, Expires	
CERTIFICAT	TE OF FIELD FABI	RICATION INSPECT	TION
. •			
, the undersigned, holding a valid commis	sion issued by the Natio	nal Board of Boiler and	Pressure Vessel Inspectors and/or
he State or Province of	· · · · · · · · · · · · · · · · · · ·		
nd employed by		of	
ave compared the statements in this Manu	facturer's Data Report w	ith the described piping	and state that the parts referred to
save compared the statements in this Manu	facturer's Data Report w	ith the described piping	and state that the parts referred to
have compared the statements in this Manu	facturer's Data Report w	rith the described piping and in the certificate of sh	and state that the parts referred to op inspection have been inspected
neve compared the statements in this Manual as data items	fecturer's Data Report w, not include and belief the manufact	rith the described piping and in the certificate of sh	and state that the parts referred to op inspection have been inspected
eve compared the statements in this Manus a data items	facturer's Data Report w , not include and belief the manufact ON III.	rith the described piping and in the certificate of shower has constructed this	and state that the parts referred to op inspection have been inspected a piping in accordance with the ap-
neve compared the statements in this Manual added items	fecturer's Data Report w	ith the described piping and in the certificate of shower has constructed this was any warranty, expres	and state that the parts referred to op inspection have been inspected a piping in accordance with the ap-
neve compared the statements in this Manual and Acta Items  by me and that to the best of my knowledge officiable section of the ASME CODE SECTION  By signing this certificate neither the Inspecting described in this Menufacturer's Data	fecturer's Data Report w	ith the described piping and in the certificate of shower has constructed this was any warranty, expressitter the inspector nor	and state that the parts referred to op inspection have been inspected a piping in accordance with the ap- sed or implied, concerning the pip- his employer shall be liable in any
neve compared the statements in this Manual and Acta Items  by me and that to the best of my knowledge officiable section of the ASME CODE SECTION  By signing this certificate neither the Inspecting described in this Menufacturer's Data	fecturer's Data Report w	ith the described piping and in the certificate of shower has constructed this was any warranty, expressitter the inspector nor	and state that the parts referred to op inspection have been inspected a piping in accordance with the apased or implied, concerning the piphia employer shall be liable in any
neve compared the statements in this Manu- is data items	facturer's Data Report w, not include and belief the manufact N III.  ctor nor his employer ma Report. Furthermore, no mage or a loss of any ki	ith the described piping and in the certificate of shower has constructed this was any warranty, expressitter the inspector nor	and state that the parts referred to op inspection have been inspected a piping in accordance with the ap- sed or implied, concerning the pip- his employer shall be liable in any
have compared the statements in this Manual as data items	facturer's Data Report w, not include and belief the manufact N III.  ctor nor his employer ma Report. Furthermore, no mage or a loss of any ki	ith the described piping and in the certificate of shower has constructed this was any warranty, expressitter the inspector nor	and state that the parts referred to op inspection have been inspected a piping in accordance with the apparent of implied, concerning the piphia employer shall be Hable in any
and employed by	facturer's Data Report w, not include and belief the manufact N III.  ctor nor his employer ma Report. Furthermore, no mage or a loss of any ki	with the described piping and in the certificate of shower has constructed this was any warranty, expressither the inspector nor indicating from or connecting the connection of connecting the connecting from the connecting fro	and state that the parts referred to op inspection have been inspected a piping in accordance with the apased or implied, concerning the piphia employer shall be liable in any



# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

1. Owner: Washington Public Power Supply System (WPPSS)
Address: 3000 George Washington Way, Richland, WA

Date: 6/3/90 Sheet: 1 of 1 Unit: WNP-2

2. Plant: WPPSS Nuclear Power Plant (WNP)
Address: Hanford, Benton County, WA

3.(a) Work Performed by: Bechtel Construction, Incorporation

(b) Repair Organization P.O. No., Job No., etc.: PO Box 600, Richland, WA

4. Identification of System: Residual Heat Removal (RHR) System

5. (a) Applicable Construction Code ASME Section III: 1971 Edition with Summer.1971 Addenda, Code Case: None

(b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308

6. Identification of Components Repaired or Replaced and Replacement Components

ľ	Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
	RHR-P-2B	Ingersoll-Rand Co	0473111		N/A	1974	Replacement	Yes, Code Class 2

- 7. Description of Work: Replaced flex hose RHR-FLX-2B for pump RHR-P-2B seal cooler piping. The replacement work was performed
  - 1) Cut and removed section of existing piping material
  - 2) Installed new replacement piping material
  - 3) Made required socket welds
  - 4) Performed PT examination on the final socket welds. PT examination results acceptable
  - 5) Installed new replacement flex hose

FORM NIS-2 (Back)	
3. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure  Test Pressure: Psig Test Temperature: OF  Component Design Pressure: Psig Temperature: OF	Other X None
9. Remarks: See attached NPP-1 Code Data Report for new replacement flex hose RHR-FLX-2B, Serial N	o 001
CERTIFICATE OF COMPLIANCE	
We certify that the statements made in the report are correct and this replacement confor ASME Code, Section XI.  Type Code Symbol Stamp: Not applicable Certificate Authorization No.: Not applicable Expiration Date: Not Applicable	rms to the rules of the
Prepared by Quidly Leigh Signed by Plant Technica	I Manager
Date 6/3/90. Date 6-4-90	
CERTIFICATE OF INSERVICE INSPECTION	
I, the undersigned, holding a valid commission issued by the National Board of Bo Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Mutual System) of Norwood, Massachusetts have inspected the components described during the period 2/22/90 to 5/24/90 and state to the best of my kn Owner has performed examinations and taken corrective measures described in this O accordance with the requirements of the ASME Code, Section XI.  By signing this certificate neither the Inspector nor his employer makes any warrant concerning the examinations and corrective measures described in this Owner's Report the inspector nor his employer shall be liable in any manner for any personal injury or loss of any kind arising from or connected with this inspection.	Company (Factory in the Owner's Report towledge and belief, the wner's Report in ty, expressed or implied, t. Furthermore, neither
Eurostagant Commissions 9556W	
Inspector's Signature National Board  Date 6/4/90	l, State, and Endorsements

PLAN NO 2-0538:

# FORM NPP-1 DATA REPORT FOR FABRICATED NUCLEAR PIPING SUBASSEMBLIES\* (As Required by the Provisions of the ASME Code Rules)

l	
	Fabricated by Metal Bellows Div. of Parker Hannifin Corp. order No. Al1559 200 Science Dr., Moorpark, Ca. 93021-8010
2.	Fabricated for Washington Public Power Supply System Order No. 97147 Richland, WA (Name and Address)
3.	System System Washington Public Power Supply. Location of Plant WNP #2, Richland, WA 99352
5.	Piping System Identification : Flexible Metal Hose Assy.  (Brief description of Intended use, main coolant etc.)
	(a) Drawing No. 86771-2 Prepared by Metal Bellows Div. of Parker Hannifin Corp.
	(b) National Board No.
.6.	The material, design, construction, and workmanship complies with ASME Gode Section III, Class 2
	Edition 1971 , Addenda Date W'73 , Case No. N-192-2
	Remarks: Manufacturers' Data Reports properly identified and signed by Commissioned Inspectors have been furnished for
	the following items of this report
	Shop Hydrostatic Test 10 Min. @ .760 psi.
8.	Description of piping inspected 86771-2: Bellows; SA249 Type 321 .50" O.D. x .016" thick (include-mark nomaterial specnom. pipe size-schedule or thickness-length
	straight tube. Adaptors; SA479 Type 304, two. Nipple; SA479 Type 304, one.
	Stub End; SA403 Type 304 .50" IPS Sch. 40 (MOD), one. Flange; SA182 Type 316
	.50" IPS 600# LJ, one. Total length 17.81". Design pressure 500 PSIG @ 480° F
	Design verification by analysis per NC3649.4(e)(1) and Code Case N-192-2.
¥	Installation to be by Customer/Owner per IM78609. Metal Bellows Part No.
	86771-2 S/N 001.
	VERIFIED & ACCEPTED DV Melles
	EPNALO SERIALAIO LEVEL ZIZ R.I. Inspector Date
	RAR-FLX-28 001 Pulas Pas
	We certify that the statements made in this report are correct and that the fabrication of the described piping conforms
	with the requirements of SECTION III of the ASME BOILER AND PRESSURE VESSEL CODE.  Date 35-5-69 Stene Metal Bellows Div. By Fuel Co. See See See See See See See See See Se
	(Fabricator)
_	Certificate of Authorization Expires Sept. 25, 1990 Certificate of Authorization No. N-2512
	CERTIFICATE OF SHOP INSPECTION
	I, the undersigned, holding a valid commission issued by the National Board of Boller and Pressure Vessel Inspectors and/or the State or Province of California and employed by L.M.C. of Long Grove, Ill.
	have inspected the piping described in this Data Report on 5-5 1989, and state that to the best of my knowledge
	and belief, the Menufacturer has constructed this piping in accordance with the applicable Subsections of ASME Code.
	Section III.  By signing this certificate, neither the inspector nor his employer make any warranty, expressed or implied, concern-
	ing the piping in this Data Report. Furthermore, neither the inspector nor his employer shall be Hable in any manner
	for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.  Date
	CA1414
<u>L</u>	(Inspector) National Board, State, Province and No.

9. Description of Field Fabrication

HANDER OF THE PROPERTY OF THE

EPN NO. LHR-FLX-ZB SERIAL NO.

Kurdip Engs

National Board, State, Province and No.

	. Ву	0
	(Fabricator)	(webiesenterises)
Certification of Authorization to use the relificate of Authorization No.	<del></del>	
		CDECIMON :
CERTIFICA.	TE OF FIELD FABRICATION IN	SPECTION
I, the undersigned, holding a valid commis	sion issued by the National Beerd of Bai	ler and Pressure Vessel Inspectors and/o
I, the undersigned, holding a valid commis the State or Province of	sion issued by the National Board of Bai	ler and Pressure Vessel Inspectors and/o
I, the undersigned, holding a valid commis the State or Province of	sion issued by the National Board of Bai	ler and Pressure Vessel Inspectors and/o
I, the undersigned, holding a valid commis the State or Province of	sion issued by the National Board of Bai of	ler and Pressure Vessel Inspectors and/o
I, the undersigned, holding a valid commis the State or Province of	sion issued by the National Board of Bai of	ler and Pressure Vessel Inspectors and/o
I, the undersigned, holding a valid commis the State or Province of	of	ler and Pressure Vessel Inspectors and/o
I, the undersigned, holding a valid commis the State or Province of	of	ler and Pressure Vessel Inspectors and/o
I, the undersigned, holding a valid commis the State or Prevince of	of	ler and Pressure Vessel Inspectors and/o

Inspector

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

Owner: Washington Public Power Supply System (WPPSS)
 Address: 3000 George Washington Way, Richland, WA

Date: 6/3/90 Sheet: 1 of 1

2. Plant: WPPSS Nuclear Power Plant (WNP)

Unit: WNP-2

Flant: WFF55 Nuclear Fower Flant (WIVE

Address: Hanford, Benton County, WA

- 3.(a) Work Performed by: Bechtel Construction, Incorporation
  - (b) Repair Organization P.O. No., Job No., etc.: PO Box 600, Richland, WA
- 4. Identification of System: Residual Heat Removal (RHR) System
- 5. (a) Applicable Construction Code ASME Section III: 71 Edition with Summer 71 Addenda, Code Case: None
  - (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
- 6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
RHR-P-2C	Ingersoil-Rand Co	0473112	49	N/A	1974	Replacement	Yes, Code Class 2

- 7. Description of Work: Replaced flex hose RHR-FLX-2C for pump RHR-P-2C seal cooler piping. The replacement work was performed as follows
  - 1) Cut and removed section of existing piping material
  - 2) Installed new replacement piping material ...
  - 3) Made required socket welds
  - 4) Performed PT examination on the final socket welds. PT examination results acceptable
  - 5) Installed new replacement flex hose

FORM NIS-2 (Back)
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other X No Test Pressure: Psig Test Temperature: °F Component Design Pressure: Psig Temperature: °F
9. Remarks: See attached NPP-1 Code Data Report for new replacement flex hose RHR-FLX-2C, Serial No 002
CERTIFICATE OF COMPLIANCE
We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.  Type Code Symbol Stamp: Not applicable Certificate Authorization No.: Not applicable Expiration Date: Not Applicable  Prepared by  Lucip Signed by
Plant Technical Manager  Date 6/3/90 Date 6-4-90
· CERTIFICATE OF INSERVICE INSPECTION
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 2/22/40 to 6/1/40 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.  By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
Justice Commissions 4556 W  Inspector's Signature National Board, State, and Endorsements
Date 10/4/40  Commissions 9556  National Board, State, and Endorsements

altell AUS

National Board, State, Province and No.

PLAN NO. 2-0539

# FORM NPP-1 DATA REPORT FOR FABRICATED NUCLEAR PIPING SUBASSEMBLIES\* (As Required by the Provisions of the ASME Code Rules)

_	
	Fabricated by Metal Bellows Div. of Parker Hannifin Corp. order No. All559 200 Science Dr., Moorpark, Ca. 93021-8010
2.	Fabricated for Washington Public Power Supply System Order No. 97147 Richland, WA (Name and Address)
3.	Owner Washington Public Power Supply. Location of Plant WNP #2, Richland, WA 99352 .
5.	Piping System Identification Flexible Metal Hose Assy.  (Brief description of Intended use, main coolant etc.)
	(a) Drawing No. 86771-1 Prepared by Meral Bellows Div. of Parker Hannifin Corp.
	(b) National Board No.
6.	The material, design, construction, and workmanship complies with ASME Code, Section III, Class 2
	Edition 1971 , Addenda Date W'73 , Case No. N-192-2
	Remarks: Manufacturers* Data Reports properly identified and signed by Commissioned Inspectors have been furnished for
	the following items of this report (Name of Part - Item number, Manufacturer's name, and identifying stamp)
	(traine of Fare - Rein number, washing clearly and countrying stamp)
7.	Shop Hydrostatic Test 10 Min. @ 760 psi.
8.	Description of piping inspected 86771-1 Bellows: SA249 Type 321 .50" O.D. x .016" thick (include-mark nomaterial specnom. pipeping schedule or thickness-length
	straight tube. Adaptor; SA479 Type 304, one.
	- littings - llanges, etc.)
,	Stub End; SA403 Type 304 .50" IPS Sch. 40 (MOD), one. Flange; SA182 Type 316
	.50" IPS 600# LJ, one. Total length 16.68". Design pressure 500 PSIG @ 480° F.
	Design verification by analysis per NC3649.4(e)(1) and Code Case N-192-2.
	Installation to be by Customer/Owner per IM78609. Metal Bellows Part No.
	86771-1 S/N'S 001, 002. EPN NO. SERIAL NO.
	:RHR.FLX-ZA 001
•	2H2-FLX-2C 002. Puldip Eng
	We certify that the statements made in this report are correct and that the fabrication of the described piping conforms 8/23/89.
	with the requirements of SECTION III of the ASME BOILER AND PRESSURE VESSEL CODE.  Date 4-29-84 Stens Metal Bellows Div. n. H. J.
	(Fabricator)
	Certificate of Authorization Expires Sept. 25, 1990 Certificate of Authorization No. N-2512
	CERTIFICATE OF SHOP INSPECTION  I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors
	and/or the State or Province of California and employed by L.M.C. of Long Grove, Ill.
	have inspected the piping described in this Data Report on 1989, and state that to the best of my knowledge
	and belief, the Manufacturer has constructed this piping in accordance with the applicable Subsections of ASME Code.  Section III.
	By signing this certificate, neither the Inspector nor his employer make any warranty, expressed or implied, concern-
	Ing the piping in this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
	Bone APRIL 29 18 83

(Inspector)

SERIAL NO EPN NO 001 RHR-FLX-ZA RHR-FLX-ZC 002

10. Field Hydrostatic Test	psi.	_	
We certify that the field fabrication of the d			
PRESSURE VESSEE CODE, CIESS		, 11	
		By	(Representative)
	(Fabricator)	•	(Kepresentative)
Our Certification of Authorization to use the	5y	mbol Expires	19
Certificate of Authorization No.	•		
. ' CERTIFIC	ATE OF FIELD F	ABRICATION INSPECT	, אסח
. •		•	
I, the undersigned, holding a valid com			
the State or Province of			
and employed by			
have compored the statements in this M			
as data Items	, not lno	cluded in the certificate of sh	op inspection have been inspected
by me and that to the best of my knowled	ige and belief the man	ulacturer has constructed thi	s piping in accordance with the ap-
plicable section of the ASME CODE SEC	TION III.		
By signing this certificate neither the in			and a limited gonganing the pipe
lng described in this Manufacturer's D			
manner for any personal injury or propert			
manner fer any personal injury or propert	A Gumpea at a rose at a	ny aina arising from or come	Seled Atty turn runbactions
Date	. 19		
•		•	• •
	Com	missions	
Inspector		, National Boa	rd. State, Province and No.



# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

1. Owner: Washington Public Power Supply System (WPPSS)
Address: 3000 George Washington Way, Richland, WA

Date: 6/4/90 Sheet: 1 of 1 Unit: WNP-2

2. Plant: WPPSS Nuclear Power Plant (WNP)

Address: Hanford, Benton County, WA

- 3.(a) Work Performed by: Bechtel Construction, Inc. PO Box 600, Richland, WA
  - (b) Repair Organization P.O. No., Job No., etc.: C20069
- 4. Identification of System: Containment Instrument Air (CIA) System
- 5. (a) Applicable Construction Code ASME Section III: 1971 Edition with Winter 1973 Addenda, Code Case: None
  - (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
- 6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
CIA(5)-2B	WPPSS	CIA(5)-2B-P1	N/A	N/A	1983	Replacement	Yes, Code Class 2

- 7. Description of Work: Installed flanges in CIA lines. The replacement work was performed as follows
  - 1) Cut existing piping to install new replacement flanges
  - 2) Installed new replacement flanges
  - 3) Made required socket welds
  - 4) Performed PT examination on the final socket welds. Pt examination results acceptable
  - 5) Installed bolting material for the flanges
  - 6) Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during pressure test

	FORM NIS-2 (Back)					
8.	Tests Conducted: Hydrostatic Pneumatic X Nominal Operating Pressure Other  Test Pressure: 390 Psig Test Temperature: 78 °F  Component Design Pressure: 300 Psig Temperature: 340 °P					
9.	Remarks: None					
	•					
	CERTIFICATE OF COMPLIANCE					
	We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.					
	Type Code Symbol Stamp: Not applicable					
	Certificate Authorization No.: Not applicable  Expiration Date: Not Applicable					
	Prepared by Lulaib Signed by Plant Technical Manager					
	(14/6)					
	Date Date					
	CERTIFICATE OF INSERVICE INSPECTION					
	I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel					
	Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory					
	Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 3/16/90 to 6/5/90 and state to the best of my knowledge and belief, the					
	Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.					
	By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied,					
	concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a					
	loss of any kind arising from or connected with this inspection.					
	Commissions 9556 W					
	'Inspector's Signature National Board, State, and Endorsements					
	Commissions 9556 W  Thispector's Signature National Board, State, and Endorsements  Date 6/5/90					
	]					



### FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

1. Owner: Washington Public Power Supply System (WPPSS) Address: 3000 George Washington Way, Richland, WA

Date: 5/26/90 Sheet: 1 of 1

2. Plant: WPPSS Nuclear Power Plant (WNP)

Address: Hanford, Benton County, WA

Unit: WNP-2

- 3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA
- (b) Repair Organization P.O. No., Job No., etc.: WPPSS
- 4. Identification of System: Equipment Drain Radioactive (EDR) System
- 5. (a) Applicable Construction Code ASME Section III: 1971 Edition with Winter 1971 Addenda, Code Case: None
  - (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
- 6. Identification of Components Repaired or Replaced and Replacement Components

Name of Componer		Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
EDR-TK-4A	CB&I	S-1120	4086 ,	N/A	1975	Replacement	Yes, Code Class 3

7. Description of Work: Replaced the bolting material for the following man holes for EDR-TK-4A tank

<sup>20°</sup> Roof man hole nozzle "N"

<sup>20°</sup> Roof man hole nozzle "M"

	•
	FORM NIS-2 (Back)
8. 1	Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other X Non- Test Pressure: Psig Test Temperature: °F Component Design Pressure: Psig Temperature: °F
9. 1	Remarks: None
7	
	CERTIFICATE OF COMPLIANCE
	We certify that the statements made in the report are correct and this replacement conforms to the rules of the
	ASME Code, Section XI.  Type Code Symbol Stamp: Not applicable
١	Certificate Authorization No.: Not applicable  Expiration Date: Not Applicable
١	Prepared by Quidity Signed by Sam
	Plant Technical Manager
	Date <u>5-30-50</u>
L	
	CERTIFICATE OF INSERVICE INSPECTION
1	
	I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory
	Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period $\frac{2/(6/90)}{2}$ to $\frac{5/31/90}{2}$ and state to the best of my knowledge and belief, the
	Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.
	By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied,
	concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a
	loss of any kind arising from or connected with this inspection.
	Commissions 9556 W
	Date 5/31/90 Commissions 9556W National Board, State, and Endorsements
	Date <u>5/31/90</u>
-	



### FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

1. Owner: Washington Public Power Supply System (WPPSS) Address: 3000 George Washington Way, Richland, WA

Date: 5/26/90 Sheet: 1 of 1

2. Plant: WPPSS Nuclear Power Plant (WNP)

Unit: WNP-2

Address: Hanford, Benton County, WA

- 3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA
  - (b) Repair Organization P.O. No., Job No., etc.: WPPSS
- 4. Identification of System: Equipment Drain Radioactive (EDR) System
- 5. (a) Applicable Construction Code ASME Section III: 1971 Edition with Winter 1971 Addenda, Code Case: None
  - (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
- 6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
EDR-TK-4B	CB&I	S-1121	4087	N/A	1975	Replacement	Yes, Code Class 3

7. Description of Work: Replaced the bolting material for the following man holes for EDR-TK-4B tank

<sup>20°</sup> Roof man hole nozzle "N"

<sup>20°</sup> Roof man hole nozzle "M"

FORM NIS-2 (Back)
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other X None Test Pressure: Psig Test Temperature: °F Component Design Pressure: Psig Temperature: °F
9. Remarks: None
CERTIFICATE OF COMPLIANCE
We certify that the statements made in the report are correct and this replacement conforms to the rules of the
ASME Code, Section XI.  Type Code Symbol Stamp: Not applicable
Certificate Authorization No.: Not applicable
Expiration Date: Not Applicable
Prepared by Judis Signed by
Plant Technical Manager
Date 5/30/70 Date 5-30-50
CERTIFICATE OF INSERVICE INSPECTION
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel
Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory
Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period $\frac{2/16/90}{}$ to $\frac{5/31/90}{}$ and state to the best of my knowledge and belief, the
Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.
By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied,
concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a
loss of any kind arising from or connected with this inspection.
Sur Hoggaith Commissions 9556W
Inspector's Signature National Board, State, and Endorsements
Date <u>5/31/90</u>

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

Owner: Washington Public Power Supply System (WPPSS)
 Address: 3000 George Washington Way, Richland, WA

Date: 6/25/90 Sheet: 1 of 1 Unit: WNP-2

2. Plant: WPPSS Nuclear Power Plant (WNP)

Address: Hanford, Benton County, WA

- 3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA
  - (b) Repair Organization P.O. No., Job No., etc.: WPPSS
- 4. Identification of System: Floor Drain Radioactive (FDR) System
- 5. (a) Applicable Construction Code ASME Section III: 1971 Edition with Winter 1971 Addenda, Code Case: None
  - (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
- 6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
FDR-TK-9	CB&I	S-1124	4090	N/A	1975	Replacement	Yes, Code Class 3

7. Description of Work: Replaced the bolting material for the following man holes for FDR-TK-9 tank

20° Roof man hole nozzle "J"

20" Shell man hole nozzle "I"

43	WASHINGTON P	गामधाद स्वकृत
	SUPPLY	SYSTEM

FORM NIS-2.(Back)  8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other Cest Pressure: Psig Test Temperature: OF Component Design Pressure: Psig Temperature: OF  9. Remarks: None	X N
Test Pressure: Psig  Component Design Pressure: Psig  Test Temperature: °F  Temperature: °F	X N
P. Remarks: None	t.
·	
CERTIFICATE OF COMPLIANCE	
We certify that the statements made in the report are correct and this replacement conforms to the rules of	of the
ASME Code, Section XI.  Type Code Symbol Stamp: Not applicable	
Certificate Authorization No.: Not applicable	
Expiration Date: Not Applicable	
Prepared by · Rudh Suph Signed by Plant Technical Manager	
Date 6/24790 Date 6-27-90	
· · · · · · · · · · · · · · · · · · ·	
CERTIFICATE OF INSERVICE INSPECTION	
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure	Vesse
Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factor	
Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's R during the period 2/16/90 to 6/22/90 and state to the best of my knowledge and beli	
Owner has performed examinations and taken corrective measures described in this Owner's Report in	
accordance with the requirements of the ASME Code, Section XI.  By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or in	1:
concerning the examinations and corrective measures described in this Owner's Report. Furthermore,	
the inspector nor his employer shall be liable in any manner for any personal injury or property damage loss of any kind arising from or connected with this inspection.	or a
Authorganto Commissions 9556 W	
Mational Board, State, and Endorse	ments
Date Mandan	
Date <u>427/90</u>	





# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

1. Owner: Washington Public Power Supply System (WPPSS)
Address: 3000 George Washington Way, Richland, WA

Date: 9/18/90 Sheet: 1 of 1 Unit: WNP-2

2. Plant: WPPSS Nuclear Power Plant (WNP)

Address: Hanford, Benton County, WA

- 3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA
  - (b) Repair Organization P.O. No., Job No., etc.: WPPSS
- 4. Identification of System: High Pressure Core Spray (HPCS) System
- 5. (a) Applicable Construction Code ASME Section III: 1971 Edition with Winter 1973 Addenda, Code Case: None
  - (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
- 6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board . No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
HPCS-V-6	Borg Warner	17868	N/A	N/A	1971	Repair	Yes, Code Class 1

- 7. Description of Work: Repaired valve HPCS-V-6. The repair work was performed as follows
  - 1) Cut body to bonnet seal weld
  - 2) Removed valve internals for troubleshooting
  - 3) Reinstalled valve internals
  - 4) Installed bonnet into valve body and torqued it to the required torque value
  - 5) Made body to bonnet seal weld
  - 6) Performed PT examination on the final seal weld. PT examination results acceptable
  - 7) Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during pressure test

6	WASHINGTON F	UBLIC POXER
S	SUPPLY	SYSTEM

FORM NIS-2 (Back)
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure X Other Test Pressure: 110 Psig Test Temperature: 75 °F Component Design Pressure: 3600 Psig Temperature: 100 °F
9. Remarks: None
CERTIFICATE OF COMPLIANCE
We certify that the statements made in the report are correct and this repair conforms to the rules of the ASME Code, Section XI.
Type Code Symbol Stamp: Not applicable
Certificate Authorization No.: Not applicable
Expiration Date: Not Applicable
Prepared by Culdip Rups Signed by Plant Technical Manager
Date 9/18/90. Date 9-18-90
<u> </u>
CERTIFICATE OF INSERVICE INSPECTION
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel
Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory
Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report
during the period 2/20/90 to 5/12/90 and state to the best of my knowledge and belief, the
Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.
By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied,
concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither
the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
Analysis Commissions 9556 W //Inspector's Signature National Board, State, and Endorsements
Date <u>-9/18/90</u>



# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

Owner: Washington Public Power Supply System (WPPSS)
 Address: 3000 George Washington Way, Richland, WA

Date: 5/29/90 Sheet: 1 of 1

2. Plant: WPPSS Nuclear Power Plant (WNP)

Unit: WNP-2

Address: Hanford, Benton County, WA

- 3.(a) Work Performed by: Beehtel Construction, Inc. PO Box 600, Richland, WA
  - (b) Repair Organization P.O. No., Job No., etc.: C20069
- 4. Identification of System: Reactor Core Injection Cooling (RCIC) System
- 5. (a) Applicable Construction Code ASME Section III: 1971 Edition with Winter 1973 Addenda; Code Case: None
  - (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
- 6. Identification of Components Repaired or Replaced and Replacement Components

Name of Componen	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
RCIC(13)-4CI	2 WPPSS	RCIC(13)-4C12-P1	N/A	N/A	1983	Replacement	Yes, Code Class 2

- 7. Description of Work: Replaced existing valve RCIC-V-39. The replacement work was performed as follows
  - 1) Cut and removed existing valve
  - 2) Installed new replacement valve
  - 3) Made required socket welds
  - 4) Performed PT examination on the final socket welds. Pt examination results acceptable

FORM NIS-2 (Back)
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other X None Test Pressure: Psig Test Temperature: °F Component Design Pressure: Psig Temperature: °F
9. Remarks: See attached NPV-1 Code Data Report for new replacement valve RCIC-V-39 Serial No 16890
CERTIFICATE OF COMPLIANCE
We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.  Type Code Symbol Stamp: Not applicable Certificate Authorization No.: Not applicable Expiration Date: Not Applicable
Prepared by Lucifo Eugh Signed by Signed by Plant Technical Manager
Date <u>5/30/90</u> Date <u>5-30-90</u>
CERTIFICATE OF INSERVICE INSPECTION
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 3/20/90 to 5/26/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.  By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
Auchogan's Commissions 9556 W  Inspector's Signature National Board, State, and Endorsements
Date <u>5/30/90</u> -

## FORM NPY-1 N CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES\* As Required by the Provisions of the ASME Code, Section III, Div. 1

Manufactured by Mttclez	r Valve Div. B	OTT WATERT.	7500 Tyron	a Ave., Y	an Ruys, Ca	tlif.
Manufactured for Boyes	IN DESCRIPTION AND AMERICA	M CAMINICAL MA	1000			
in in	tarms and Admission of Prin	PRESENT OF CHARGET				3000
Location of InstallationR	ichland, Weshi	ngton WPP				<del></del>
Pump or Valve		Nominal I	nlet Size	<u> </u>	utlet Size	<u> </u>
(a),Model No., (b) N	Cartificate Holderia	Ici Canadian	• (i	inch) ·	T.	(incn)
Series Na.	Serial	Registration	(d) Orawing		IN NaCl.	(g) Year
or Type	Na.	No.	No.	(e) Class	8d. No.	Built
	16890, 16905	N/A	76700	2	N/A	1977
1500#	16906					
(3)				LAN N	0.2-05	41
44 ·						
(5)			KEPLACE	MENI	VAZVE	
(6)			,			
(7)			KCIC-	V-39	5/N/6	290
<b>(4)</b>		·····	<del></del>		VI. 1 00 010	0
(10)	·	····	<del></del>		mary,	120190
Carina Candhlana 360	10	100		below.	N/A	
Cold Working Pressure	0 pai	100 (Temperature) 1007F,	ー ゲ or Valve		: N/A	(1)
Cold Working Pressure	3500	10077.		Pressure Class	N/A ::	
Cord Working Pressure Pressure Retaining Pressure Mark No.	3600 pai at 1	10077.	チ or Valve	Pressure Class	:	
Cold Working Pressure Pressure Retaining Press Merx No.  [a] Castings	3600 pei at 1	pec. No.	チ or Valve	Pressure Class	.t. Remark	<b>u</b>
Cord Working Pressure Pressure Retaining Pressure Marx No.  (a) Castings Gate-Code 1914	3600 pei at 1	pec. No.	— F or Valve I	Pressure Class clurer	:	
Cold Working Pressure Pressure Retaining Meces  Mark No.  (a) Castinga  Gate-Code 1P14  Casting-75347	3600 pei at 1	pec. No.	チ or Valve	Pressure Class cturer	.t. Remark	<b>u</b>
Cold Working Pressure — Pressure Retaining Please  Mark No.  [at Castings  Gate—Code 1P14	3600 pei at 1	pec. No.	Manufa	Pressure Class cturer	.t. Remark	ka .
Cold Working Pressure Pressure Retaining Meces  Mark No.  (a) Castinga  Gate-Code 1P14  Casting-75347	3600 pei at 1	pec. No.	Manufa	Pressure Class cturer	.t. Remark	ka .
Cold Working Pressure Pressure Retaining Mecas  Mark No.  [a] Castings  Gate-Code 1P14  Casting-75347	3600 pei at 1	pec. No.	Manufa	Pressure Class cdurer	.t. Remark	ka .
Cold Working Pressure Pressure Retaining Pieces Mark No.  [a] Castinga Gate-Code 1P14 Casting-75347	3600 pei at 1	pec. No.	Manufa	Clurer Sion	Remark Furc '1 Spec	<b>u</b>
Cold Working Pressure Pressure Retaining Pieces Mark No.  [a] Castinga Gate-Code 1P14 Casting-75347	3600 pei at 1	pec. No.	Manufa	Clurer Sion	Remark   Property   P	- was s
Cord Working Pressure Pressure Retaining Pieces  Mark No.  (a) Castinga Gate-Code 1P14- Casting-75347	3600 pei at 1	pec. No.	Manufa	Clurer Sion	Remark   Property   P	• was sa
Cold Working Pressure Pressure Retaining Pressure Merx No.  (a) Castinga Gate-Code 1P14 Casting-75347 Machined-75346	3600 pei at 1	pec. No.	Manufa	Gurer  Sion  On  GECHIE	Remark IV [ [ ] [] FEB 23 19	• was sa
Cord Working Pressure Pressure Retaining Pieces  Mark No.  (a) Castinga Gate-Code 1P14- Casting-75347	3600 pei at 1	pec. No.	Manufa	Clurer Sion	Remark   Property   P	• was sa
Cold Working Pressure Pressure Retaining Press Merk No.  [a] Castinga Gate-Code 1P14 Casting-75347 Muchined-75346	3600 pai at 1	pec. No.	Manufa	Gurer  Sion  On  GECHIE	Remark IV [ [ ] [] FEB 23 19	• was sa
Cold Working Pressure Pressure Retaining Press  Marx No.  Ial Castinga Gate-Code 1P14 Casting-75347 Machined-75346	3600 pai at 1	pec. No.	Manufa	Sion on  GECHIE BY:	Remark IV [ [ ] [] FEB 23 19	• was sa
Cold Working Pressure Pressure Retaining Press Mark No.  (a) Castinga Gate-Code 1P14 Casting-75347 Muchined-75346  (b) Forgings But Forgings	3600 pai at 1	pec. No.	Menufa   Rex Precis   NV Divisio	Sion on GECHIE  BY:	Remark IV [ [ ] [] FEB 23 19	• was sa
Cold Working Pressure Pressure Retaining Pressure Mark No.  (a) Castinga Gate-Code 1P14- Casting-75347 Machined-75346  (b) Forgings  Body-Code 1J60- Forging=70453	3600 pai at 1  Material S  A296 GR CA61	pec. No.	Menufa  Rex Precis NV Divisio	Pressure Class Clurer  Sion on  BECHIE BY: Orge on	Remark IV [ [ ] [] FEB 23 19	- was s
Cold Working Pressure Pressure Retaining Pressure Retaining Pressure Mark No.  (a) Castinga Gate-Code 1P14 - Casting-75347 Machined-75346  (b) Forgings  Body-Code 1J60-Forging-70453 Machined-70476 Assembly-75348	3600 pai at 1  . Material S  A296 GR CA61	pec. No.	Menufa  Rex Preci: NV Division  Pacific F NV Divisi	Pressure Class Clurer  Sion on  BECHIE BY: Orge on	Remark IV [ [ ] [] FEB 23 19	• was sa
Cold Working Pressure Pressure Retaining Pressure Merx No.  (a) Castinga Gate-Code 1P14- Casting-75347 Machined-75346  Endy-Code 1J60- Forgings Rody-Code 1J60- Forging-70453 Nachined-70476	3600 pai at 1  . Material S  A296 GR CA61	pec. No.	Menufa  Rex Preci: NV Division  Pacific F NV Divisi	Sion on  GECHIE BY: orge on	Remark IV [ [ ] [] FEB 23 19	• was sa

(10/77)

Maria Maria Company Company Company Company

This form (ECCCUT) may be corpored from the Cryser Deorg, ASME, 248 E. 47th St., New York, N.Y. 10017

<sup>(1)</sup> For manually operated valves only.

Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8-1/2" x 11", (2) information in items 1, 2 and 5 on this Cata Report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at top of this form.

## REPLACEMENT VALVE RCIC-V-39, SIN 16890.

	Mark No.	. Material Spec. No.	Manufacturer	Remercs
(c) \$01	tino			न का गण न पर व
(6)				11/1 15 14/15
-			i	
-			<del>  .                                   </del>	CED 93 1982
				LED NO LOOP
			- CECLIE	CHALITY CONTROL
		·	שנטווו	T GOVELL
-			B1	
			1	
245				
(d)	Other Parts			'
_	Stem Code 1M35	SA564 Type 630		
_	Bar Stock	<u> </u>	Jorgenson Steel	
	Machined 75:23		NV Division	<u> </u>
-				
,				
		<u> </u>	<u> </u>	
			<u> </u>	<del></del>
_		<u>!</u>	<u> </u>	
L Hydro	5400 p	al. Dist Differential fast pressure		
Accend Signed	Winter 1973  Comments  Continues on the	Div.,Barg Verner by to u	Men Don	
		CERTIFICATION OF	•	
•		AVD of Borg Warmer, 7500	TYPOUR AVES, YELL MEY	s, Ca. 91409
-	analysis report (Class	•		
<u>Darion</u>	specificanops cartifies	d by (1) David J. Murphy		
PE Stan	Vashington	Reg. No. 12542		
		1)	•	
	•	_ Reg. No		
149 67			• .	
(11) 5+0	nesure not required. Li	at herite cray.		
		CERTIFICATE OF SHO	P INSPECTION	· ·
i, the c	undersigned, holding	a valid commission leaved by the h	letional Board of Boiler and Property	receure Vessel Impectors
#™ UN	Long Grove. I	Tindia has imported	M DUND. OF WARM PARTIES	in this Days Same an
	December 18	19 Ol and state that to the best of	if my knowledge and belief, the N	Cartificate Holder has con-
		, in accordance with the ASME Code, either the Imspector nor his employe	•	
		entier the inspector nor his employed this Data Report, Furthermore, herth		
		ury or property damage or a loss of a		
Dette S	Decot bir 18	19 81	ions 1275 @d.	
		Commissi	one	

215-14546



#### FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

1. Owner: Washington Public Power Supply System (WPPSS) Address: 3000 George Washington Way, Richland, WA

Date: 6/3/90 Sheet: 1 of 1

2. Plant: WPPSS Nuclear Power Plant (WNP)

Unit: WNP-2

Address: Hanford, Benton County, WA

3.(a) Work Performed by: Bechtel Construction, Incorporation

(b) Repair Organization P.O. No., Job No., etc.: PO Box 600, Richland, WA

4. Identification of System: Reactor Core Isolation Cooling (RCIC) System

5. (a) Applicable Construction Code ASME Section III: 1971 Edition with Winter 1973 Addenda, Code Case: None

(b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308

6. Identification of Components Repaired or Replaced and Replacement Components

<del></del>
IE Code
amped
s or No)
ie Class
ode Class 2
ode Class 2
•

- 7. Description of Work: Installed valves RCIC-V-205, RCIC-V-206 and RCIC-V-207. The replacement work was performed as follows
  - 1) Cut and removed section of existing piping material
  - 2) Installed new replacement piping material and valves
  - 3) Made required socket welds
  - 4) Performed PT examination on the final socket welds. PT examination results acceptable

<del></del>	
FORM NIS-2 (	Back)
8. Tests Conducted: Hydrostatic Pneumatic Nom Test Pressure: Psig Component Design Pressure: Psig	inal Operating Pressure Other X None Test Temperature: °F Temperature: °F
9. Remarks: See attached NPV-1 Code Data Report for the following new re  EPN No Serial No RCIC-V-205 16928 RCIC-V-206 16909 RCIC-V-207 16913	placement valves
CERTIFICATE OF CO	MPLIANCE
We certify that the statements made in the report are correct ASME Code, Section XI.  Type Code Symbol Stamp: Not applicable Certificate Authorization No.: Not applicable Expiration Date: Not Applicable  Prepared by Ludy Engl Signed	20 0
Date 6/3/90. Date	<u> </u>
CERTIFICATE OF INSERVI	CE INSPECTION
I, the undersigned, holding a valid commission issued by a Inspectors and the State of Washington and employed by Ark Mutual System) of Norwood, Massachusetts have inspected the during the period 3/2/40 to 5/28/90 and Owner has performed examinations and taken corrective measuccordance with the requirements of the ASME Code, Section By signing this certificate neither the Inspector nor his employer shall be liable in any manner for the semination of the Asmachusetts describe the inspector nor his employer shall be liable in any manner for loss of any kind arising from or connected with this inspection	wright Mutual Insurance Company (Factory the components described in the Owner's Report state to the best of my knowledge and belief, the sures described in this Owner's Report in the XI. Tologer makes any warranty, expressed or implied, and in this Owner's Report. Furthermore, neither tor any personal injury or property damage or a
And Vognature Commissions	9556 W National Board, State, and Endorsements
Inspector's Signature  Date 6/4/90	· · · · · · · · · · · · · · · · · · ·

16913

#### FORM NPV-1 MANUFACTURERS DATA REPORT FOR NUCLEAR PIMPS OR VALVES.

As Required	y the Provision	of the ASME	Code Rules

0B257

<del>-</del> -	fucioar Valve Divi of Borg Warner,750	10 Tyrone Avenue;	, Van Huys, Ca.	47713
,	' ' '(Name &	Address of Manufacturers		* NO
	Bovoe & Crail/G.E.			**** *
sariscured for	P.O. Box 1040; Ric		on 99352 · Orde	- No. 215-3261Q
	ر. مستور ، مربور ا	Name and Address)		• (
The Att Spirit Street Spirit S		Bankaran Pantaran	end had no va	4 v s y terkite
PPSS I	landord-#2:Job8	to	•	1 (1) (1) (1) (1) (1) (1) (1) (1) (1)
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	. 25.6 - 5.6		90 - 900 I. O 214 I	(*************************************
ocation of Plant_		Ington 99352		· Hispacks
,,,,, a management	Yes less.	Selve New DA	767001 Inch_Gate	1101 m C C
or Valve Lient	lication	MAG-DIANI-T/ No.	and a promise to part of the promise to a	** 44TAG* C* D* . *
	1101 V P. 100 100 100 100 100 100 100 100 100 10			
) 	BOTIEL N	mbers 16913, 16	6916 Thru 16920:	("6" Valves )
		on of corries for watch ope	ethanes and questiones.	
		1 <del></del>		*
	.76700	25	clear Valve Divisi	de la
(a) Drawing No	.10700 .			
	<b>,</b>	Personal Company	at f a Dr. A	-V-205, S/N 10
b) National Board h	lo	•	LUIC	-1 - 2 0 3 , 2 / 0 / 1
, <u>1124</u>	3600 1057	100	. a <sub>g</sub> .	· · Kuldub &
			"Y	
	Park (Process)	,	*	• 611
				: a : -/-
The material, design	a, construction, and works	sanship complies with A	SHE Code Section III. Clas	:. (mai) &
1071				
The material, design		Winter *73		
1071	. Addenda Date	Winter *73	Case No.	• • • • • • • • • • • • • • • • • • • •
1071				
Edition 1971	. Addenda Date	Winter *73	Case No.	• • • • • • • • • • • • • • • • • • • •
Edicion 1971	. Addenda Date	Winter '73	Case No.	• • • • • • • • • • • • • • • • • • • •
Edicion 1971  (a) Castings Gate	Mark Ha.	Winter '73	Case No.	• • • • • • • • • • • • • • • • • • • •
Edicion 1971 : (a) Castines	Mark No. 1914; 193	Winter '73	Case No.	• • • • • • • • • • • • • • • • • • • •
Edition 1971 : (a) Castings Gate Casting	Mark Na.  - Code 1P14; 1P3	Winter '73	Case No. Manufacturer  Manufacturer  Rex Precision	• • • • • • • • • • • • • • • • • • • •
Edition 1971 : (a) Castings Gate Casting	Mark Na.  - Code 1P14; 1P3	Winter '73	Case No. Manufacturer  Manufacturer  Rex Precision	• • • • • • • • • • • • • • • • • • • •
Edition 1971 : (a) Castines Gate Casting	Mark No.  Code 1914; 193 75347 75346	Winter '73	Case No. Manufacturer  Manufacturer  Rex Precision	• • • • • • • • • • • • • • • • • • • •
Edicion 1971 : (a) Castines Gate	Mark Na.  - Code 1P14; 1P3	Winter '73	Case No. Manufacturer  Manufacturer  Rex Precision	Remarks
Edicion 1971 : (a) Castines Gate	Mark No.  Code 1914; 193 75347 75346	Winter '73	Rex Precision NV Division	Remarks    Same
Edition 1971 . (a) Castings Gate Casting Machined	Mark Na.  Code 1914; 193 75347	Winter '73  Winter '73  SA487 CA6NM	Rex Precision NV Division	Remarks  Tempore  Tem
Edition 1971 : (a) Castings Gate Casting	Mork No.  - Code 1914; 193 - 75347	Winter '73  Maintal Seed No. ''  8 SA487 CA6NM	Rex Precision NV Division	
Edition 1971  (a) Castings Gate Casting Machined	Mark No.  Code 1914; 193 75347 75346	Winter '73  Meneral Spee: No. ''  8 SA487- CA6NM	Rex Precision NV Division	
Edition 1971  (a) Castings Gate Casting Muchined	Mark Na.  Code 1914; 193 75347 75346	Winter '73  Meneral Spee: No. ''  8 SA487 CA6NM	Rex Precision NV Division	Remote
Edition 1971  (a) Castings Gate Casting Machined	Mark Na.  Code 1914; 193 75347 75346	Winter '73  Meneral Spee: No. ''  8 SA487- CA6NM	Rex Precision NV Division	
Edicion 1971  (a) Castings Gate Casting Machined  (b) Forgings Body Porging	Mark Na.  Code 1914; 193 75347 75346 75346	Winter '73  Meneral Spee: No. ''  8 SA487 CA6NM	Ray Precision NV Division  Pacific Forge	Remote
Edicion 1971  (a) Castings Gate Casting Machined  (b) Forgings Body Forging Machined	Mark Na.  - Code 1P14; 1P3 - 75346 - 75346 - Code 1160 - 70453 - 70476	Winter '73  Meneral Spee: No. ''  8 SA487 CA6NM	Rex Precision NV Division  Pacific Force NV Division	Reacts  I S W II S W S  I S W
Edition 1971  (a) Castings Gate Casting Machined  (b) Forgings Body Porging	Mark Na.  - Code 1914; 193 - 75346 - 75346 - Code 1160 - 70453 - 70476	Winter '73  Meneral Spee: No. ''  8 SA487 CA6NM	Ray Precision NV Division  Pacific Forge	Reacts  I S W II S W S  I S W
Edition 1971  (a) Castings Gate Crating Machined  (b) Forgings Body Forging Hachined Assembly	Mork No.  - Code 1P14; 1P3 - 75346 - 75346 - Code 1.160 - 70453 - 75348	Winter '73  Mintel torri No. ''  8 SA487 CA6NM  SA105	Rex Precision NV Division  Pacific Force NV Division	Reacts  I S W II S W S  I S W
Edition 1971  (a) Castings Gate Casting Machined  (b) Forgings Body Forging Machined Assembly  Bonnet	Mork No.  - Code 1P14; 1P3 - 75346 - 75346 - Code 1J60 - 70453 - 70476 - 75348 - Code 1J28	Winter '73  Meneral Spee: No. ''  8 SA487 CA6NM	Rex Precision NV Division  Pacific Forge NV Division NV Division	Reacts  I S W II S W S  I S W
Edition 1971  (a) Castings Gate Crating Machined  (b) Forgings Body Forging Hachined Assembly	Mark Na.  Code 1P14; 1P3 75347 75346 75346 - Code 1.160 - 70453 - 70476 - 75348 - Code 1.128	Winter '73  Winter '73  SA105  SA105	Rex Precision NV Division  Pacific Force NV Division	Reacts  I S W II S W S  I S W

Frimed in U.S.A. is "il

Primod to U.S.A. (6/72)

This form (E)7) is obtainable from the ADME, 345 E. 47th St., New York, N.Y. 19917

FORM NPV-1 (back) The Cerial No. 16913

## FORM NPV-1 MANUFACTURERY DATA REPORT FOR NUCLEAR PLYIPS OR VALVES.

As Required by the Provisions of the ASME Code Rules WBGBR 215 12185

Nuclear Valve Divis	ion Tyrone Avenue,	. Van Nuys, Ca.	
Boyce & Crail/G.E.F	deress of Handpetures)	•	
Manufactured for P.O. Box 1040, Rich	me and Address)	00 0000 Code	* No. 215-3261Q
Owner . WPPSS Hanford #2 Job Sit	Parish administration of the second second	\$	* A * *
Location of Plant Richland, Washin	igton 99352	, m. h. h. h. h	1 10117 00 111-000-0
Pump or Valve Identification Nuclear Va	3	26700 "1 "This call	initial toot
Pump or Valve Identification 11002011 12	LYG BLV., E/N	16700, 1 Inch Gate	atve, CS
Santal No	-berg 16921 th	mi 16928 . 16875 a	nd 16877 thru 16880
		stances were designed;	
* *			
75700	¥.	olean Velma Diniel	on of Bone Trans
(a) Drawing No. 76700	uebereq pl un	clear Valve Divisi	on or Borg. werner
(h) National Board No.	** * ** 24*	·· Loi	C- V-ZO6,5/N 1692
6. Design Conditions 3600 (Pressure)	100	Øe 🧎	· Ludip sups
c. Design Conditions (Preseurs)	(Temperatu	<del>//)</del> /	6/1/90.
Edition 1971 . Addenda Date	Material Spec, Ila.	. Karalacturer	Romants
(a) Castings			
	SA487 CA6NM		
Casting - 75347		Rex Precision .	
Machined 75346		NV Division	
			E W E
و المراك و المراك و المرك و المراك و الم		1 · · · · · · · · · · · · · · · · · · ·	115 177 15 1111
		<del>                                     </del>	4
	<del> </del>	1 101	1 1981
	f ~~~~~~~	BECHTEL OU	ALITY, CONTROL
			Cost
		,	
(b) Forgings	1	<u> </u>	
Body - Code 1J60	<u>\$A 105</u>	Panded a Pane	<del></del>
Forging - 70453	ļ	Pacific Forge	
Machined - 70476  Assembly - 75348		NV Division NV Division	<del> </del>
Assembly - 75348	<del> </del>	1 NA DIAISION	
Bonnet - Code 1M28, 1M	53 SA 105		
Forged Stock	7	Compton Forge	1
Machined - 73973 -11		NV Division	
	.1	NV Division	

isi accumus	} *	"world! Spec, Na.	* * Monufacturer	Remarks Le
Bolting		- <del></del>		
A.1			<u> </u>	
•		•		,
		<del></del>	11.1.1	
	5	renair aca		
		رام ۱۰۰	T	
		~		
Other Parts			erla del la	11 10 1 PP4.31
,		•		
		9352		. • }
				<del></del>
***************************************	1 100		1 177	
	5815			
		P. 1. 1-1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	***************************************	
				1
<u>.</u> .	Crie	TIFICATION OF	DESCU	
<b>-</b>	CER		DESIGN	
ga specifications certified by	r Velve NA David J.	Div. of Borg	Warner, 7500 Tyron	Wash. Reg. No. 12542
is analysis report on file atN ign specifications certified byN in enalysis report certified byN ignature not required. List came on	r Valve  //A  David J.  //A  dir.  dis report	Murphy  Are conect.	Warner, 7500 Tyron. (1) Prof. Eag. State. (1) Prof. Eag. State.	Wash. Reg. No. 12542
is analysis report on file atN ga specifications certified byN so enalysis report certified byN ignature not required. List name on certify that the statements made in t	r Valve //A David J. //A dy-id J. //A dy-id J. // dis-report	Murphy  Are conect.	Warner, 7500 Tyron. (1) Prof. Eag. State. (1) Prof. Eag. State.	Wash. Reg. No. 12542
as analysis report on file atN  an specifications certified by  as enalysis report certified by  ignature not required. List same on  certify that the statements made in a	r Valve  //A  David J.  //A  dir	Murphy  Are conect.  Muclear Valve  (Manufacture)	Warner, 7500 Tyron. (1) Prof. Eag. State. (1) Prof. Eag. State.	Wash. Reg. No. 12542
as analysis report on file atN  an specifications certified byD  as enalysis report certified byN  agasters not required. List name on  certify that the statements made in theN  ifficate of Authorization No12	r Valve  //A  David J.  //A  dir	Murphy  Are conect.  Muclear Valve  (Manufacture)	Warner, 7500 Twron.  (1) Prof. Eag. State (1) Prof. Eag. State	Wash. Reg. No. 12542
is analysis report on file atN ga specifications certified byD so enalysis report certified byN ignorance not required. List came on certify that the statements made in the	r Valve  //A  David J.  //A  chis report  Signed	Murphy  Are conect.  Muclear Valve  (Manufacture)	Warner, 7500 Twron.  (1) Prof. Eag. State  (1) Prof. Eag. State  Div.  By Gov.  ber 27, 1978.	Wash. Reg. No. 12542
es analysis report on file atN ga specifications certified byD se analysis report certified byN ignature not required. List came on certify that the statements made in aMarch 1019.77	r Valve  //A  David J.  //A  dris report  Signed	Murphy  Are conect.  Muclear Valve  of Borg Warne  (Mendenum)  expires Octo	Warner, 7500 Twron.  (1) Prof. Eag. State (1) Prof. Eag. State (1) Prof. Eag. State (2)  Div.  By Gac  ber 27, 1978.	Wash. Reg. No. 12542 Reg. No. Reg. No. Parker
as analysis report on file atN  an specifications certified byD  as enalysis report certified byN  ignature not required. List came on  certify that the statements made in the	r Valve //A David J. //A dis report Signed C	Murphy  Are conect.  Inclear Valve  of Borg Warne (Mendener)  expires Octo	Warner, 7500 Tyron:  (1) Prof. Eag. State (2) Prof. Eag. State (3) Prof. Eag. State (4) Prof. Eag. State (5) Prof. Eag. State (6) Prof. Eag. State (6) Prof. Eag. State (6) Prof. Eag. State (7) Prof. Eag. State (7) Prof. Eag. State (8) Prof. Eag. State (8) Prof. Eag. State (8) Prof. Eag. State (9) Prof.	Wash. Reg. No. 12542  Reg. No.  Persona  Pressure Vessel Inspectors
as analysis report on file at	r Valve //A David J. i/A dis report Signed	Murphy  Are conect.  Inclear Valve  of Borg Warne (Mendener)  expires Octo	Warner, 7500 Tyron.  (1) Prof. Eag. State (2) Prof. Eag. State (3) Prof. Eag. State (4) Prof. Eag. State (4) Prof. Eag. State (5) Prof. Eag. State (6) Prof. Eag. State (6) Prof. Eag. State (6) Prof. Eag. State (6) Prof. Eag. State (7) Prof.	Wash. Reg. No. 12542  Reg. No.  Pressure Vessel Inspectors Bldg. & Sefety
es saalysis report on file at	r Valve  //A bavid J.  //A  dir.  bis report  Signed C  254  CERTIFI  commission sliform	Murphy  are conect.  [uxlear Valve of Borg Warne (Manufacturer) expires Octo  CATE OF SHOP a issued by the Na and e	Warner, 7500 Tyron.  (1) Prof. Eag. State (1) Prof. Eag. State (1) Prof. Eag. State  Div.  By Cou  This By Co	Pressure Vessel Inspectors Bldg. & Sefety  acet described in this Data
es analysis report on file at	centifications	Murphy  Are correct.  Murphy  Are correct.  Muclear Valve  F Borg Warne  (Manufacturer)  expires Octo  CATE OF SHOP  a issued by the Na  R and e	Warner, 7500 Tyron.  (1) Prof. Eag. State.  (1) Prof. Eag. State.  (1) Prof. Eag. State.  Div.  By Gar  ber 27, 1978.  INSPECTION  stional Board of Boiler and imployed by Dept. of have inspected the equiphe best of my knowledge:	Pressure Vessel Inspectors Bldg, & Sefety ment described in this Data
ga specifications certified by	commissicalifornis alifornis aliforn	Murphy  Are correct.  Inclear Valve  of Borg Warne  (Manufacturer)  expires Octo  CATE OF SHOP  a issued by the Na  and e  the applicable.Su  cut aux his employ  Furthermore, neith	Warner, 7500 Tyron.  (1) Prof. Eag. State.  (1) Prof. Eag. State.  (1) Prof. Eag. State.  (2) By Coc.  By Doc.  INSPECTION  Assignment of Boiler and suppleyed by Dept. of have inspected the equiphe best of my knowledge: bacctions of ASME Code, Sycer makes any warranty, expert the inspector nor his empty of the inspector nor his empty.	Pressure Vessel Inspectors Bldg, & Sefety ment described in this Data and belief, the Manufacturer ection III. stessed or implied, concern- sloyer shall be liable in any
ga specifications certified by	commissicalifornis alifornis aliforn	Murphy  Are correct.  Inclear Valve  of Borg Warne  (Manufacturer)  expires Octo  CATE OF SHOP  a issued by the Na  and e  the applicable.Su  cut aux his employ  Furthermore, neith	Warner, 7500 Tyron.  (1) Prof. Eag. State.  (1) Prof. Eag. State.  (1) Prof. Eag. State.  (2) By Coc.  By Doc.  INSPECTION  Assignment of Boiler and suppleyed by Dept. of have inspected the equiphe best of my knowledge: bacctions of ASME Code, Sycer makes any warranty, expert the inspector nor his empty of the inspector nor his empty.	Pressure Vessel Inspectors Bldg, & Sefety ment described in this Data and belief, the Manufacturer ection III. stessed or implied, concern- sloyer shall be liable in any
ga specifications certified by	commissicalifornis alifornis aliforn	Murphy  Are correct.  Inclear Valve  of Borg Warne  (Manufacturer)  expires Octo  CATE OF SHOP  a issued by the Na  and e  the applicable.Su  cut aux his employ  Furthermore, neith	Warner, 7500 Tyron.  (1) Prof. Eag. State.  (1) Prof. Eag. State.  (1) Prof. Eag. State.  (2) By Coc.  By Doc.  INSPECTION  Assignment of Boiler and suppleyed by Dept. of have inspected the equiphe best of my knowledge: bacctions of ASME Code, Sycer makes any warranty, expert the inspector nor his empty of the inspector nor his empty.	Pressure Vessel Inspectors Bldg, & Sefety ment described in this Data and belief, the Manufacturer ection III. stessed or implied, concern- sloyer shall be liable in any
is analysis report on file at	r Valve  //A  bavid J.  //A  dir.  //  chis report  commission  cliforn  frame with  che laspe  the laspe  the Report.  rty damage	Murphy  Are correct.  Inclear Valve  of Borg Warne  (Manufacturer)  expires Octo  CATE OF SHOP  a issued by the Na  and e  the applicable.Su  cut aux his employ  Furthermore, neith	Warner, 7500 Tyron.  (1) Prof. Eag. State.  (1) Prof. Eag. State.  (1) Prof. Eag. State.  (2) By Coc.  By Doc.  INSPECTION  Assignment of Boiler and suppleyed by Dept. of have inspected the equiphe best of my knowledge: bacctions of ASME Code, Sycer makes any warranty, expert the inspector nor his empty of the inspector nor his empty.	Pressure Vessel Inspectors Bldg, & Sefety ment described in this Data and belief, the Manufacturer ection III. stessed or implied, concern- sloyer shall be liable in any
is analysis report on file atN  ga specifications certified byD  so enalysis report certified byN  ignature not required. List came on  certify that the statements made in a	commissicalifornis alifornis aliforn	Murphy  Are correct.  Inclear Valve  of Borg Warne  (Manufacturer)  expires Octo  CATE OF SHOP  a issued by the Na  and e  the applicable.Su  cut aux his employ  Furthermore, neith	Warner, 7500 Tyron.  (1) Prof. Eag. State.  (1) Prof. Eag. State.  (1) Prof. Eag. State.  (2) By Coc.  By Doc.  INSPECTION  Assignment of Boiler and suppleyed by Dept. of have inspected the equiphe best of my knowledge: bacctions of ASME Code, Sycer makes any warranty, expert the inspector nor his empty of the inspector nor his empty.	Pressure Vessel Inspectors Bldg, & Sefety ment described in this Data and belief, the Manufacturer ection III. stessed or implied, concern- sloyer shall be liable in any
is analysis report on file at	r Valve  //A  bavid J.  //A  dir.  //  chis report  commission  cliforn  frame with  che laspe  the laspe  the Report.  rty damage	Murphy  Are correct.  Inclear Valve  of Borg Warne  (Manufacturer)  expires Octo  CATE OF SHOP  a issued by the Na  and e  the applicable.Su  cut aux his employ  Furthermore, neith	Warner, 7500 Tyron.  (1) Prof. Eag. State.  (1) Prof. Eag. State.  (1) Prof. Eag. State.  (2) By Coc.  By Doc.  INSPECTION  Assignment of Boiler and suppleyed by Dept. of have inspected the equiphe best of my knowledge: bacctions of ASME Code, Sycer makes any warranty, expert the inspector nor his empty of the inspector nor his empty.	Pressure Vessel Inspectors Bldg, & Sefety ment described in this Data and belief, the Manufacturer ection III. stessed or implied, concern- sloyer shall be liable in any
is analysis report on file at	r Valve  //A  bavid J.  //A  dir.  //  chis report  commission  cliforn  frame with  che laspe  the laspe  the Report.  rty damage	Murphy  Are correct.  Inclear Valve  of Borg Warne  (Manufacturer)  expires Octo  CATE OF SHOP  a issued by the Na  and e  the applicable.Su  cut aux his employ  Furthermore, neith	Warner, 7500 Tyron.  (1) Prof. Eag. State.  (1) Prof. Eag. State.  (1) Prof. Eag. State.  (2) By Coc.  By Doc.  INSPECTION  Assignment of Boiler and suppleyed by Dept. of have inspected the equiphe best of my knowledge: bacctions of ASME Code, Sycer makes any warranty, expert the inspector nor his empty of the inspector nor his empty.	Pressure Vessel Inspectors Bldg, & Sefety ment described in this Data and belief, the Manufacturer ection III. stessed or implied, concern- sloyer shall be liable in any
is analysis report on file at	r Valve  //A  bavid J.  //A  dir.  //  chis report  commission  cliforn  frame	Murphy  Are correct.  Inclear Valve  of Borg Warne  (Manufacturer)  expires Octo  CATE OF SHOP  a issued by the Na  and e  the applicable.Su  cut aux his employ  Furthermore, neith	Warner, 7500 Tyron.  (1) Prof. Eag. State.  (1) Prof. Eag. State.  (1) Prof. Eag. State.  (2) By Coc.  By Doc.  INSPECTION  Assignment of Boiler and suppleyed by Dept. of have inspected the equiphe best of my knowledge: bacctions of ASME Code, Sycer makes any warranty, expert the inspector nor his empty of the inspector nor his empty.	Pressure Vessel Inspectors Bldg, & Sefety ment described in this Data and belief, the Manufacturer ection III. stessed or implied, concern- sloyer shall be liable in any

· P. C. FORM NPV-1. (back)/11

CONTRACTOR CONTRACTOR

A STATE OF THE PROPERTY OF THE

œ

16909

0

Appriliation Organization of province of the second

Appropriate Constitution Constitution

Si

#### FORM NPV-1 MANUFACTURERS HATA REPORT FOR NUCLEAR PIMPS OR VALVES.

	As Required by	the Provisions of th	e ASME Code Rules	PLAN NO. 2-054
	Valve Divis	Tyrone Avenue	, Van Nuys, Cs. Ord	er No. 47713
,	(Name is A	(resulted burne Kifter as a rab		•
Bovos &	Crail/G.E.F	lek. Jand Vochdoor	00050	***
Manufactured for P.O. Bo	x Luau, Rich	ILANG, MESGINST	ou 33725 O49	No. 215-32610
	(#	me and Address)		0 D $0$ $0$
Owner WPPSS Hanford	#2 Job 811	:0	•	<u>0B221</u>
Location of Plant Rich	land, Washin	igton. 99352		
Pump or Valve [dentification_	Nuclear Ve	ilve Div., P/N	76700, 1 Inch Gat	e Valve, CS
	Serial Nu	abors 16873	16874 16895 1690	3, 16907 Thru 16910
	eliqinsesb lainE)	o of seculos (as water sq	ulpment was designed)	(8 Valves) 5/N 16909
				(0 121463) 3/N 10 10 1
	<del></del>		. ,	
(a) Drawing No. 767	700	repared by Nu	clear Valve Divis:	lon of Borg Warner
(6) 0.24	•	(1)   1   1   1   1   1   1   1   1   1	6	
(b) National Board No.			L CIC	-V-207, SIN 169
•		•		· Rulaip Eur
Design Conditions	3600	psi100	of	· Kuldup Sur
	(Pressure). —	· (Temperaty	ne) .	6/1/9
Edition 1971 ·	.C'yddenda Dace_	Winter '73	Case No.	
Mark No.	·	Material Space, 210.	Manufacturer	Remarks
(a) Castings		1		1
Gate - Code	1P14·	SA4E7 CA6NM		
Casting - 75347	7	1	Bex Proteton	
Machined- 75346	3		NV Division	
		<u> </u>		<u> </u>
			<u> </u>	<u> </u>
	<del></del>	<del> </del>	- <del></del>	
سينتسن و دسوهم بين ي وين	<del></del>	ļ	ļ	
		<del> </del>	200	5 14928
		<del> </del>	, , , ,	
All a Constitutions			<del>.</del>	
(b) Forgings	Codo 1 100	1		
	Code 1J60-	SA105	Pacific Forge	
	70453			
	1047G	:	NV The said of from CIT	U LS LOVU CS LEE
	0476		NV DINAS CON (I)	1 E W E 1
Assembly - 7	7 <u>0476</u> 75348		NV Division	
	5348	57. \$3105	NV Dizksten	
Bonnet -		53. SA105	NV dizzeten U	
Bonnet - Forged Stock	5348 Code 1M28-; 1M	53. SA105	NV dizksien U	3 25 1982
Bonnet - Forged Stock Machined -	5348	53. SA105	NV dizksien U	Ü

Supplemental shorts in form of lists, sketches or drawings may be used provided (1) size is 89% a 13%, (2) information in Items, 1, 2, 5a and 3b on this data report is included on each short, and (3) each sheet is numbered and number of sheets is recorded at top of this form.

*	•	. FUIDI NPV-I (back)	Beri	al No. 16909
	Marte No.	Perretal Spec. No.	Manufacturer	Romarka Culding
(c) Bolting				
<del></del>				<del></del>
رون راجستان که در				
(d) Other Pa				
	<del></del>	,,,,	··	
<del>سید اسیده</del> معینات بینیات				
*****			t	
. Hydrostatic ter	5400~5450	psi.	A	
**************************************		CERTIFICATION OF DE	ESIGN 6	
	99 9	•		4 ** ** **
	report on file at NOC1687	Valve Div. of Borg Wa	rner, 7500 Tyrone	Ave. , Van Nuys, Ca.
Design specific	stions certified by Dav			Wash. Reg. No. 12542
	report certified by <u>N/A</u> tequired. List name only.		(1) Prof. Eng. State_	Reg. No.
-	<b>''</b>	•	% <b>%</b>	
We certify that	the statements made in this	report we correct. Nuclear Valve Di	. O	4- 0
Date_Februs	ry 22 19 77 Sign	ed of Borg Warner	By Garo	Cm. Parker
Cenificate of A	Authorization No. 1254		· 27 <u>. 19</u> 78 ·.	
•	CE	RTIFICATE OF SHOP IN	SPECTION	
and/or the Stat	e of Provioce of Cali	mission issued by the Nation	oved by Dept. of	Bldg. & Safety
Kal	ty, of Los Angoles Tuary 22 : " The Table			ent described in this Data
has constructe	d this equipment in accordan	e inspector not his employer	ctions of ASSIE Code, Sec	d belief, the Manulacturer tion III.
ine the equipm	ent described in this Data R	leport. Furthermore, neither the damage or a loss of any kind	ie (napector dar his emple	er skall be liable in any
	en e			
Kebru	1ary 22			
Vare Variable		'•		
	mornie	i maissiins —	(National Buerd, State	Prayers and We 1
	(Inspected)		1,101,000 0000, 81810	,

o:



#### FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

1. Owner: Washington Public Power Supply System (WPPSS) Address: 3000 George Washington Way, Richland, WA

Date: 5/26/90 Sheet: 1 of 1

2. Plant: WPPSS Nuclear Power Plant (WNP)

Unit: WNP-2

Address: Hanford, Benton County, WA

- 3.(a) Work Performed by: Bechtel Construction, Incorporation
  - (b) Repair Organization P.O. No., Job No., etc.: PO Box 600, Richland, WA
- 4. Identification of System: Reactor Recirculation Cooling (RRC) System
- 5. (a) Applicable Construction Code ASME Section III: 1971 Edition with no Addenda, Code Case: None
  - (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
- 6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
RRC-P-1A	Bingham Willamette	B-2-1034	NB-134	N/A	1974	Replacement	Yes, Code Class 1

7. Description of Work: Installed U bolt and jam nuts for support RRC-1336-206 on RRC-P-1A seal staging line

		W. MILL	ME MININ	_	PLAN NO. 2-0547
,		FORM N	NS-2 (Bac	<b>k)</b>	
i. Tests Conducted	: Hydrostatic  Test Pressure: Ps  Component Desi			Operating Pressure Test Temperature: <sup>o</sup> F	Other X None
. Remarks: None					
•				1	
			4		
		CERTIFICATE	OF COMPI	LIANCE	
ASME Code, So Type Code Sym	ection XI. bol Stamp: Not app torization No.: Not	licable	correct and Signed by	this replacement conformation of the second	rms to the rules of the
Date	30/50	•	Date _	5-30-90	
	CE	ERTIFICATE OF I	NSERVICE 1	INSPECTION	
Inspectors and the Mutual System) during the period Owner has perform accordance with By signing the concerning the other inspector not be accorded.	the State of Washin of Norwood, Mas od <u>A/22/40</u> formed examination the requirements his certificate neith examinations and cor his employer shape	ngton and employed seach usetts have inspecton search and taken correct of the ASME Code or the Inspector not corrective measures	d by Arkwrig pected the co and state tive measure c, Section XI r his employed described in nanner for ar	ht Mutual Insurance omponents described to the best of my kn s described in this O transfer makes any warrant this Owner's Repor	in the Owner's Report nowledge and belief, the
_ Am Sh	POCIONA Simatur	Com	missions _	955/ (L)	I, State, and Endorsements
Date <u>5/3</u>	Inspector's Signature	,			of courch and wandscripting



## FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

 Owner: Washington Public Power Supply System (WPPSS) Address: 3000 George Washington Way, Richland, WA Date: 5/26/90 Sheet: 1 of 1 Unit: WNP-2

2. Plant: WPPSS Nuclear Power Plant (WNP)
Address: Hanford, Benton County, WA

3.(a) Work Performed by: Bechtel Construction, Incorporation

(b) Repair Organization P.O. No., Job No., etc.: PO Box 600, Richland, WA

4. Identification of System: Reactor Recirculation Cooling (RRC) System

5. (a) Applicable Construction Code ASME Section III: 1971 Edition with no Addenda, Code Case: None

(b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
RRC-P-1B	Bingham Willamette	B-2-1035	NB-135	N/A	1974	Replacement	Yes, Code Class 1
					,		,

7. Description of Work: Installed U bolt and jam nuts for support RRC-1553-402 on RRC-P-1B seal staging line

FORM NIS-2 (Back)
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other X None Test Pressure: Psig Test Temperature: °F Component Design Pressure: Psig Temperature: °F
9. Remarks: None
CERTIFICATE OF COMPLIANCE
We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.  Type Code Symbol Stamp: Not applicable Certificate Authorization No.: Not applicable Expiration Date: Not Applicable  Prepared by Lucip Suib Signed by  Plant Technical Manager  Date 5-30-90
CERTIFICATE OF INSERVICE INSPECTION
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period $\frac{2/22/90}{2/2/90}$ to $\frac{5/31/90}{2/22/90}$ and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.  By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
Commissions 9556 W Inspector's Signature National Board, State, and Endorsements  Date 5/3//90
Date <u>5/31/90</u>



## FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

1. Owner: Washington Public Power Supply System (WPPSS)
Address: 3000 George Washington Way, Richland, WA

Date: 5/26/90 Sheet: 1 of 1

Plant: WPPSS Nuclear Power Plant (WNP) Address: Hanford, Benton County, WA

3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA

Unit: WNP-2

(b) Repair Organization P.O. No., Job No., etc.: WPPSS

4. Identification of System: Residual Heat Removal (RHR) System

5. (a) Applicable Construction Code ASME Section III: 1971 Edition with Winter 1973 Addenda, Code Case: None

(b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
RHR(9)-1	WPPSS	RHR(9)-1-P1	N/A	N/A	1983	Replacement	Yes, Code Class 2

- 7. Description of Work: Installed lap joint flange for relief valve RHR-RV-30. The replacement work was performed as follows:
  - 1) Cut existing 3/4° inlet pipe to RHR-RV-30
  - 2) Installed lap joint slange, lap joint stub and coupling
  - 3) Made required socket welds
  - 4) Performed PT examination on the final socket welds. PT examination results acceptable

		FLAN NO. 24031					
•	FORM NIS-2 (	Back)					
8. Tests Conducted: Hydrostatic  Test Pressure: Psi  Component Desig	g	Test Temperature: °F Temperature: °F					
9. Remarks: None							
		•					
	CERTIFICATE OF CO	MPLIANCE					
We certify that the statements mad ASME Code, Section XI. Type Code Symbol Stamp: Not applie Certificate Authorization No.: Not a Expiration Date: Not Applicable	cable	and this replacement conforms to the rules of the					
Prepared by Lucif &	Signed	l by Sam Plant Technical Manager					
Date <u>5/30/90</u>	Date	5.30.90					
CE	RTIFICATE OF INSERVI	CE INSPECTION					
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 3/19/90 to 5/11/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.  By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.							
Dan Hoggants	Commissions						
Inspector's Signature  Date 5/30/90	•	National Board, State, and Endorsements					



Date: 6/1/90 Sheet: 1 of 1

Unit: WNP-2

#### FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

1. Owner: Washington Public Power Supply System (WPPSS)

Address: 3000 George Washington Way, Richland, WA

2. Plant: WPPSS Nuclear Power Plant (WNP)

Address: Hanford, Benton County, WA

- 3.(a) Work Performed by: WPPSS,3000 George Washington Way, Richland, WA
  - (b) Repair Organization P.O. No., Job No., etc.: WPPSS
- 4. Identification of System: Main Steam (MS) System
- 5. (a) Applicable Construction Code ASME Section III: 1971 Edition with Winter 1973 Addenda, Code Case: None
  - (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
- 6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
B(22)-G001A	WPPSS	B(22)-G001A-P1	N/A	N/A	1983	Replacement	Yes, Code Class NF(1)
MS(18)-2-4	WPPSS	MS(18)-2-4-P1	N/A	N/A	1983	Replacement	Yes, Code Class NF(1)

- 7. Description of Work: Replaced existing snubbers with rigid struts. The replacement work was performed as follows
  - 1) Removed existing snubbers
  - 2) Installed rigid struts
  - 3) Performed Preservice Inspections (PSI). PSI results acceptable

,	-						
FORM NIS-2 (Back)	•						
Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Component Design Pressure: Psig Test Temperature: OF Temperature: OF	Other X Non						
. Remarks: See attached NF-2 Code Data Reports for the following    Support No	•						
CERTIFICATE OF COMPLIANCE							
We certify that the statements made in the report are correct and this replacement conforms to the ASME Code, Section XI.  Type Code Symbol Stamp: Not applicable Certificate Authorization No.: Not applicable Expiration Date: Not Applicable  Prepared by    Code							
Date 6/1/90 . Date 6-1-90							
CERTIFICATE OF INSERVICE INSPECTION							
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 3/23/90 to 6/1/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.  By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.							
Santla-goarth Commissions 9556W							
Date 6/1/91)  Commissions 7552W  National Board, State, an	a Endorsements						

		NOC THO	UCTRIES INC	10400 WETO16	DOW SWAD	AUCTIN	" PLAN A	uay
				, 10420 METRIC	Certificate Holder	r)		
2.	. Manufacture	d for WASHING	TON PUBLIC PO	WER SUPPLY SYS	TEM, P.O.	BOX 968,	RICHLAND, WA	<u>9</u> 935
3.	Location of	Installation WNP	-2 OPS WHS-CO	MPLEX, WHS#1 N	. PWR. PL	ANT LOOP,	RICHLAND, WA	9935
٠.	m					•	•	
4.	, (a) Part	(b) Canadian	(c) Part	(d)	(ej	(f) National	(g)	
	Serial No.	Registration No.	Drawing No.	Description of Part	Class	Board No.	Year Built	
	(1)_*	N/A	S-1227	SWAY STRUT	1	N/A	1990	
	(2)		REV.O	ADJUSTABLE				
				SSR-35 TYPE A	/ 			
	(5)			·				
		2765-006 .		•	<del> </del>	<del></del>	<del></del>	
i			<del> </del>				<del></del>	
	(7)	<del> </del>	<del></del>	<del> </del>			<del></del>	<del></del>
	(8)	**************************************					<del> </del>	
	(9)			<u></u>				
	(10)		<del>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</del>					
						••		
			CERTIF	CATE OF COMPLI	ANCE	· ·		
	_							
			e in this report are co	orrect and that these cor	nponent suppor			
tic		E Code for Nuclear	e in this report are co		nponent suppor			
Co	on of the ASM ade Case no	E Code for Nuclear N247	be in this report are co Power Plant Compon	orrect and that these contents, Section III, Division	nponent suppor		WINTER 1973	
Co	on of the ASM	E Code for Nuclear N247	the in this report are confidence of the Power Plant Components of	orrect and that these contents, Section III, Division	mponent supportion 1. Edition 19	71 Adden	Ca WINTER 1973	
Co	on of the ASM ode Case no	E Code for Nuclear N247 20 19 90	be in this report are confidence Plant Components  Signed NPS II	orrect and that these contents, Section III, Division NOUSTRIES, INC	nponent supportion 1, Edition 19 - by SA		LDS JULY 12, 1991	
Co	on of the ASM ode Case no	E Code for Nuclear N247 20 19 90	the in this report are confidence of the Power Plant Components of	orrect and that these contents, Section III, Division NOUSTRIES, INC	nponent supportion 1, Edition 19	71 Adden	LDS	
Co	on of the ASM ode Case no	E Code for Nuclear N247 20 19 90	be in this report are confidence Plant Components  Signed NPS II	orrect and that these contents, Section III, Division NOUSTRIES, INC	nponent supportion 1, Edition 19 - by SA	71 Adden	LDS JULY 12, 1991	
tio Co Da	on of the ASM ode Case no	E Code for Nuclear N247 20 19 90	tion No. N-2689	orrect and that these contents, Section III, Division NOUSTRIES, INC	by SA	71 Adden	LDS JULY 12, 1991	
Co Da	on of the ASM ode Case no ate APRIL ur ASME Certi	E Code for Nuclear N247  20 19 90  Ificate of Authoriza	commission issued by	NDUSTRIES, INC T Certificate Holders  to use the NP  ATE OF SHOP INS The National Board of	by SA  SA  PECTION  Boiler and Pres	NDY REYNO Symbol expires:	LDS JULY 12, 1991 (Oate)	
Co Da	on of the ASM ode Case no ate_APRIL  ur ASME Certi  the undersign ovince of_T	E Code for Nuclear N247  20 19 90  Ificate of Authoriza	commission issued by	NDUSTRIES, INC T Certificate Holders to use the NP  ATE OF SHOP INS	DECTION  Boiler and Pres	NDY REYNO Symbol expires:	LOS JULY 12, 1991 (Oate)  DECTORS and the State ASSACHUSETTS	o'
Co Da Ou Pro	on of the ASM ode Case no  Ble_APRIL  Ur ASME Certi  the undersign ovince ofT	E Code for Nuclear N247  20 19 90  Ilicate of Authoriza ed, holding a valid EXAS	CERTIFIC	NDUSTRIES, INC T Certificate Holders  to use the NP  the National Board of COMMERCIAL UNI	PECTION  Boiler and Pres component sur belief the NPT C	NDY REYNO Symbol expires: BOSTON . Mi	LDS JULY 12, 1991 (Oate)  DECTORS and the State ASSACHUSETTS on in this Oata Report	o   .

7: 1053

(Nat'l Board, State, Province, and No.)

<sup>&</sup>quot;Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is  $8V_t$  in, x 11 in., (2) information on items 1-4 on this Data Report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at the top of this form.

FORM NF-2 NPT CERTIFICAT. JLDERS' PARTIAL DATA REPORT FOR PA: FOR COMPONENT SUPPORT.

As Required by the Provisions of the ASME Code Rules, Section III, Division 1

COME.	1447	Astroquires		of the ASME Code	noies, Secul	JII III, DIVISION 1	PLAN NO	2-0
	Manufactured	NPS INDU	STRIES, INC.	, 10420 METRIC	BOULEVARD	, AUSTIN, TX	78758	
	<b>A A</b> = - <b>A</b> = -	WASHINGT		Hame and address of HPT C WER SUPPLY SYST			HI AND . WA	9935
2.	Manutactured			Name and address of pur	Chases of omue	r)		
3.	Location of I	nstallation_WNP -	2 OPS WHS CO	MPLEX, WHS#1 N.	PWR. PLA	NT-LOOP, RIC	HLAND, WA	9935
	(-)	15.3	4-1	Cal		443	•	
4.	(a) Part	(b) Canadian	(c) Part	(d)	(e)	(f) National	ig)	
	Serial No.	Registration No.	Drawing No.	Description of Part	Class	Board No.	Year Eurlt	
	(1)_*	` N/A	S-1227	SWAY STRUT	1	N/A	1990	
	(2)		REV. O	ADJUSTABLE				
		•		SSR-35 TYPE A				
					<del></del>		<del></del>	
				•		<del> </del>		
	(5)			<del></del>				_
	(6)	2765-007 .			<del></del>			
	(7)	·		<del></del>				
	(8)							
	(9)							
	(10)							
			CERTIF	CATE OF COMPLIA	NCE			
tio		Cade for Nuclear		orrect and that these com ents, Section III, Division				- ·
Dat	APRIL	20 j <sub>9</sub> 90	Signed NPS II	NDUSTRIES, INC.	_ by	2	~	_
			ion No. <u>N-2689</u>	l' Certificate Holder)		NDY REYNOLDS Symbol expires JUL'	Y 12, 1991	
			CERTIFIC	ATE OF SHOP INSP	ЕСПОМ			7
	he undersigne ovince of TE		_and employed by	the National Board of COMMERCIAL UNIO	N 01	BOSTON, MASS	ACHUSETTS	_
	1.20	. 19 <u>90</u> . and		t of my knowledge and b				
con	npanent suppo	ort parts in accorda	nce with the ASME C	Code for Nuclear Power P	lant Componen	ts.		
901	nent supports	s described in t	nis Oata Report.	is employer makes any Furthermore neither t e or a loss of any kind an	he Inspector	nor his emoloyer	snall be liab	1
0.		4-20-90				•		
Uai								

(Nat'l Board, State, Province, and No.)

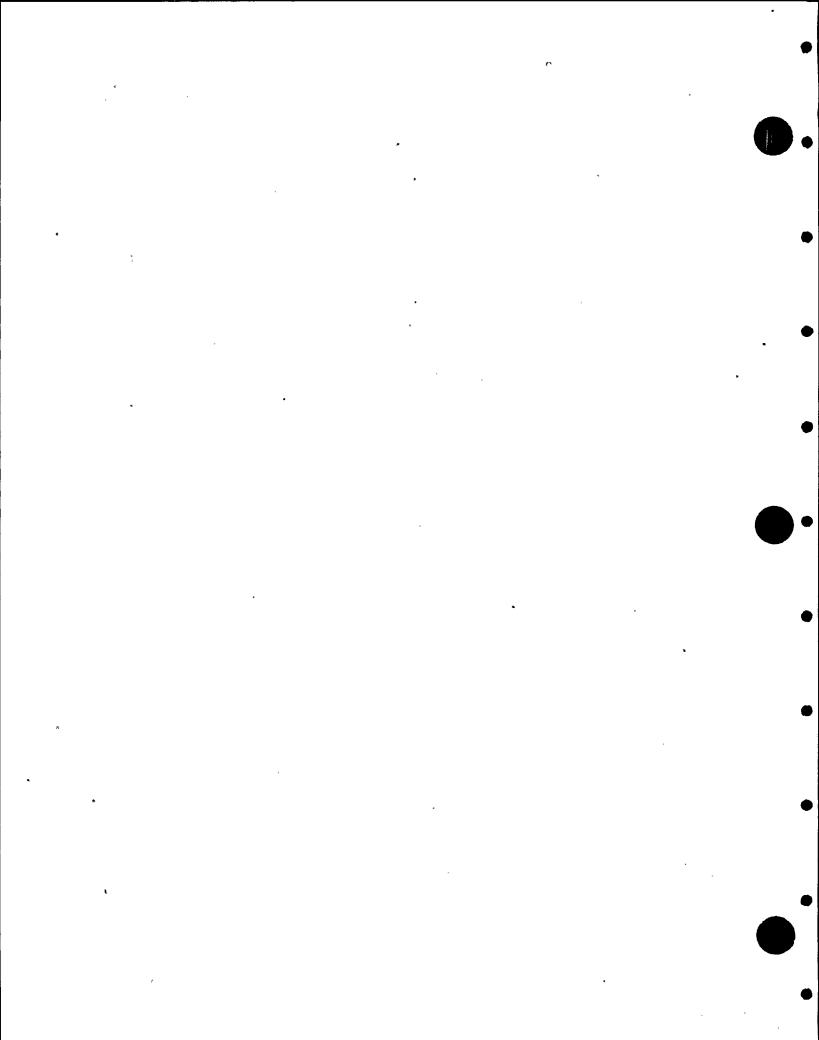
<sup>&</sup>quot;Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8% in. x 11 in., (2) information on items 1-4 on this Oata Report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at the top of this form.

• • •  FORM NF-2 NPT CERTIFICAT DLDERS' PARTIAL DATA REPORT FOR PART FOR COMPONENT SUPPORT AS Required by the Provisions of the ASME Code Rules, Sec. 111, Division 1

					/	CON NU	
Y Manulacus	ر NPS INDUS	TRIES, INC	10420 METRIC	BOULEVARD	). AUSTIN. T	x 78758 Ľ	ild
•		(N	ame and address of NPT C	ertificate Holder	i ,		~~~
2. Manufacture	d for WASHINGTO	N PUBLIC POW	ER SUPPLY SYST	EM, P.O.	BOX 968, RI	CHLAND, WA	<u>9</u> 93
	WND_2	=	PLEX, WHS#1 N.			CHIAND WA	9939
3. Location of	Installation	. 013 11113 001	TLEAS MIGHT IT.	111111111111111111111111111111111111111	W. L. LOOP , N. 1	· ·	
l. (al	(6)	{c}	(d)	, (e)	(f)	(g)	
Part	Canadian	Part		,,,	National	•	9*
Serial No.	Registration No.	Drawing No.	Description of Part	Class	Board No.	Year Built	
(1)_*	· N/A	SPN-042	SWAY STRUT	1	N/A	1990	
(2)		REV.O	ADJUSTABLE				
	•	•	SSR-100 TYPE	1			
		٠		······································			
(5)	2765- <sub>008</sub> .	<del></del>	<del></del>				
		<del></del>	<del></del>	· · · · · · · · · · · · · · · · · · ·	<del></del>		
(7)		• • • •	, , , , , , , , , , , , , , , , , , ,				<del></del>
(8)	<del></del>				· · · · · · · · · · · · · · · · · · ·		
(9)	<del></del>			<del></del>	<del></del>	<del> </del>	
(10)					· · · · · · · · · · · · · · · · · · ·		
	E Code for Nuclear Po		rect and that these comp nts, Section 111, Division				ic.
		MDC TM	DUCTOTES INC	_			- [
Date APRIL	<u> 17 19 90</u> .	Signed 195 11	DUSTRIES, INC.	SA	NDY REYNOLDS	~~	-
Dur ASME Certi	ficate of Authorizatio	n No. N-2689	to use the NPT		symbol expires JUL		_
							_
		CERTIFICA	TE OF SHOP INSP	ECTION			
, the undersignerovince of			the National Board of t OMMERCIAL UNIO		BOSTON MASS		01
4-18	80		pected the parts for the				
			of my knowledge and b de for Nuclear Power Pl			s constructed the	*
• •			employer makes any s			-	
		-	urthermore neither thor a loss of any kind ari				le
	4-18-80					•	
)ate							
igned(		11/1	Commissions	Tx109	<u>-</u>		_
	-			(Nat'l Board	, State, Province, an	d No.1	ł

- 15- O-d-- Dane ASMF 345 E. 47th St., New York, N.Y., 10017

<sup>\*</sup>Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8½ in. x 11 in., (2) information on items 1-4 on this Data Report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at the top of this form.

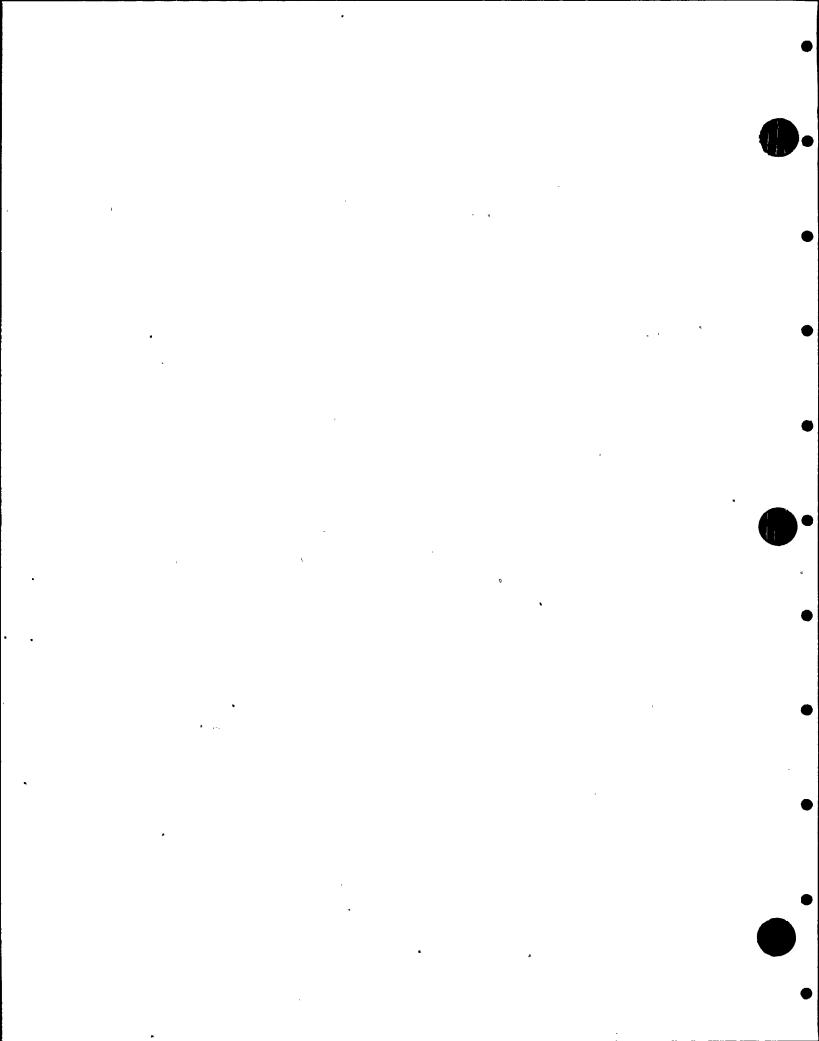


FORM NF-2 NPT CERTIFICAT DLDERS' PARTIAL DATA REPORT FOR PAPTS FOR COMPONENT SUPPORT

	As Required by the Provisions of the ASME Code Rules, Set , a III, Division 1	<u> 10.2-055</u>
	NOS TROUGTOTOS TRO 10400 RETOTO DOMESTADO AUSTINETY 707	Euldis
1.	Iname and address of NPT Certificate Holder)	<u> </u>
2.	nulactured for WASHINGTON PUBLIC POWER SUPPLY SYSTEM, P.O. BOX 968, RICHLAND	<u>, WA 9</u> 9352
	"Name and address of purchaser or owner!  WNP-2 OPS WHS COMPLEX, WHS#1 N. PWR. PLANT_LOOP, RICHLAND	. WA 99352
3.	ation of Installation THE 2 OF 3 HIS COMPLEX, WISHING THE PROOFS RECOGNIS	, WA 3333E
4.	(b) (c) (d) (e) (1) (g	
	t Canadian Part National al Registration Drawing Description Board Ye	<b>≥</b> ℓ
	. No. No. of Part Class No. Bu	ılt
	* N/A SPN-042 SWAY STRUT 1 N/A 199	}0
	REV.O ADJUSTABLE	
	SSR-100 TYPE A	
	l	<del></del>
	)	<del></del>
	*NA-2765-009 .	
	•	<del></del>
	J	
tic	CERTIFICATE OF COMPLIANCE  tily that the statements made in this report are correct and that these component support parts conform to the rules of the ASME Code for Nuclear Power Plant Components, Section III, Division 1, Edition 1971. Addenda WINTER	1973
Co	ase no. N247	'
Đء	APRIL 19 19 90 Signed NPS INDUSTRIES, INC. by	
	(NPT Certificate Holder) SANDY REYNOLDS	1001
Q	IME Certificate of Authorization No. N-2689 to use the NPT Symbol expires JULY 12.	1991
		J
	CERTIFICATE OF SHOP INSPECTION	
-	indersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the of TEXAS and employed by COMMERCIAL UNION of BOSTON, MASSACHUSE	TTS
_	have inspected the parts for the component supports described in this Data  4-19 . 19 90 . and state that to the best of my knowledge and belief the NPT Certificate Holder has construin	i i
co	nent support parts in accordance with the ASME Code for Nuclear Power Plant Components.	
<b>DO</b>	ling this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning supports described in this Data_Report, Furthermore neither the Inspector nor his employer shall i manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.	3
Da	4-19-90	
	Communication 74 1083	
Siq	Commissions Tyle Board, State, Province, and No.)	
_		

<sup>\*</sup>Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8½ in. x 11 in., (2) information on items 1-4 on this Data Report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at the top of this form.

FORM NE-2 NPT CERTIFICATE HOLDERS' PARTIAL DATA REPORT FOR PARTS FOR COMPONENT SUPPORT. As Required by the Provisions of the ASME Code Rules, Section III, Division 1 PLAN NO 2-0552 NPS INDUSTRIES, INC., 10420 METRIC BLVD., AUSTIN, (Harne and address of HPT Certificate Holder) 2 Manufactured for WASHINGTON PUBLIC POWER SUPPLY SYSTEM, FO BOX 968 PICH AND WA 00757 (Name and socress of purchaser or owner) Location of Installation WNP-2 OPS WHS COMPLEX. WHS #1 N. PWR. PLANT LOOP, RICHLAND, WA 99352 (d) 6 (el (22 [4] (b) Canadian Part National Serial Registration Drawing Description Based Year at Part Class No. Suilt No. No. No. N/A 1988 NPS-140 REPLACEMENT 1 N/A (11. REVIO SNUBBER SMR-3 CI. (41 \* NA-2295-026-1 THRU NA-2295-025-20 (8)\_ (10) CERTIFICATE OF COMPLIANCE We carrify that the statements made in this report are correct and that these component support parts conform to the rules of construction of the ASME Code for Nuclear Power Plant Components, Section III, Civision 1, Edition 1971 Addends WINTER 1973 Code Cose na N247 NPS INDUSTRIES REYNOLDS Symbol expires JULY 12, 1988 Our ASME Cartificate of Authorization No. N-2689 NPT CERTIFICATE OF SHOP INSPECTION I, the undersigned, holding a valid commission issued by the National Sound of Soiler and Pressure Vessel Inspectors and the State or and employed by \*HSBIGI CO. " HARTFORD . CONNECTICUT Province of TECAS have inspected the parts for the component supports described in this Cata Report on and state that to the best of my knowledge and belief the HPT Certificate Holder has constructed these component support parts in accordance with the ASME Code for Nuclear Power Plant Components. signing this cartificate, neither the Impector nor his employer makes any werranty, expressed or implied, concerning the conent supports described in this Cata Report. Furthermore neither the inspector nor his emularer shall be liable in any menner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.



form NF-2 NPT certificate holders' partial data report for parts for component support• As Required by the Provisions of the ASME Code Rules, Section III, Division 1 PLAN NO 2-0552 MPS INDUSTRIES, INC., 10420 METRIC BLVD., AUSTIN, TEXAS (Name and address of NPT Certificate Holder) WASHINGTON PUBLIC POWER SUPPLY SYSTEM, PO BOX 968 RICH AND WA 99352 (Name and address of purchaser or owner) Location of Installation WNP-2 OPS WHS COMPLEX. WHS #1 N. PWR. PLANT LOOP, RICH AND WA 囟 **(e) (f1** (4) (2) (b) Part Canadian Part National Cacriation Registration Yes Board لحزيمك Drawing No. of Part Czs No. Suilt No. Na. N/A NPS-140 REPLACEMENT 1 1988 N/A (1) REV.O SNUBBER (2) SMR-10 \* NA-2295-027-1 THRU (6)\_ NA-2295-027-21 (71\_ (B) (10)\_ CERTIFICATE OF COMPLIANCE We carrily that the statements made in this report are correct and that these component support parts conform to the rules of construction of the ASME Code for Nuclear Power Plant Components, Section III, Division 1, Edition 1971 Code Come no N247 19 88 Sand NPS INDUSTRIES SANDY REYNOLDS Our ASME Cartificate of Authorization No. N-2589 Symbol expires JULY 12. 1988 NPT CERTIFICATE OF SHOP INSPECTION I, the undersigned, holding a valid commission issued by the National Sound of Soiler and Pressure Vessel Inspectors and the State or HARTFORD. CONNECTIOUT \*HSBI&I CO. \_\_\_\_\_and employed by... have inspected the parts for the component supports described in this Cata Report on 19 34 and state that to the best of my knowledge and belief the HPT Certificate Holder has constructed these component support parts in accordance with the ASME Code for Nuclear Power Plant Components. By signing this cardificate, neither the Inspector nor his employer makes any werranty, expressed or implied, concerning the comconent supports described in this Cata Record. Furthermore neither the Inspector nor his employer shall be liable ancient site enter personal injury or property damage or a loss of any kind arising from or connected with etic impection.

TEXAS //X/

na



#### FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

1. Owner: Washington Public Power Supply System (WPPSS)

Date: 6/3/90 Sheet: 1 of 1

Address: 3000 George Washington Way, Richland, WA 2. Plant: WPPSS Nuclear Power Plant (WNP)

Unit: WNP-2

Address: Hanford, Benton County, WA

3.(a) Work Performed by: WPPSS,3000 George Washington Way, Richland, WA

(b) Repair Organization P.O. No., Job No., etc.: WPPSS

4. Identification of System: Residual Heat Removal (RHR) System

5. (a) Applicable Construction Code ASME Section III: 1971/1974 Edition with Winter 1973/1974 Addenda, Code Case: None

(b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
RHR(9)-1	WPPSS	RHR(9)-1-P1	N/A	N/A	1983	Replacement	Yes, Code Class 2
RHR-RV-30	JE Lonegran	509258-77-1	N/A	N/A	1978	Replacement	Yes, Code Class 2

- 7. Description of Work: Installed test port for relief valve RHR-RV-30. The work was performed as follows
  - 1) Machined off the raised face on the valve flange
  - 2) Machined grooves on the new replacement pipe flange to accommodate elastomeric "O" rings
  - 3) Beveled pipe and fitting ends. Performed PT examination on the beveled ends. PT examination results acceptable
  - 4) Installed pipe flange, pipe and made required welds. Performed PT and RT examination on the final circumferential butt welds. PT and RT examination results acceptable
  - 5) Drilled hole in the flange outer edge. Installed male connector and made required weld. Performed PT examination on the final weld. PT examination results acceptable
  - > RHR(9)-1: ASME Section III, 1971 Edition with Winter 1973 Addenda
  - > RHR-RV-30: ASME Section III, 1974 Edition with Winter 1974 Addenda

FORM NIS-2 (	Back)						
3. Tests Conducted: Hydrostatic Pneumatic Nom Test Pressure: Psig Component Design Pressure: Psig	inal Operating Pressure Other X None Test Temperature: °F Temperature: °F						
P. Remarks: None							
•							
CERTIFICATE OF CO	MPLIANCE						
We certify that the statements made in the report are correct	and this replacement conforms to the rules of the						
ASME Code, Section XI.  Type Code Symbol Stamp: Not applicable							
Certificate Authorization No.: Not applicable Expiration Date: Not Applicable							
	hu de l						
2000000	Plant Technical Manager						
Date 6/3/90 · Date	6-4-90						
CERTIFICATE OF INSERVI	CE INSPECTION						
I, the undersigned, holding a valid commission issued by	he National Board of Boiler and Pressure Vessel						
Inspectors and the State of Washington and employed by Ark	wright Mutual Insurance Company (Factory						
Mutual System) of Norwood, Massachusetts have inspected the during the period 4/4/90 to 5/12/96 and							
Owner has performed examinations and taken corrective mea	sures described in this Owner's Report in						
accordance with the requirements of the ASME Code, Section XI.  By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied,							
concerning the examinations and corrective measures describe	ed in this Owner's Report. Furthermore, neither						
the inspector nor his employer shall be liable in any manner for loss of any kind arising from or connected with this inspection							
Du Shorath Commissions	9556W						
Inspector's Signature  Date (4/4/04)	National Board, State, and Endorsements						
Date 6/4/90							

Date: 8/20/90

Sheet: 1 of 1

Unit: WNP-2

## FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

1. Owner: Washington Public Power Supply System (WPPSS)

Address: 3000 George Washington Way, Richland, WA

2. Plant: WPPSS Nuclear Power Plant (WNP)

Address: Hanford, Benton County, WA

- 3.(a) Work Performed by: WPPSS,3000 George Washington Way, Richland, WA
  - (b) Repair Organization P.O. No., Job No., etc.: WPPSS
- 4. Identification of System: Main Steam (MS) System
- 5. (a) Applicable Construction Code ASME Section III: 1971 Edition with Winter 1971 Addenda, Code Case: None
  - (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
- 6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
MS-V-22B	Rockwell	JT-37	69	N/A	1973	Replacement	Yes, Code Class 1

- 7. Description of Work: Repaired cavities on the valve body bore inside surfaces to provide smooth surface for the new replacement valve internal parts to slide on. Replaced existing internal valve parts with new replacement parts (disc and stem disc). The repair/replacement work was performed as follows.
  - 1) Prepped (blended) cavities for weld repair
  - 2) Performed MT examination on the cavities. MT examination results acceptable
  - 3) Repaired cavities by welding
  - 4) Machined the weld repaired areas
  - 5) Performed MT or PT examination on the machined surfaces. MT or PT examination results acceptable
  - 6) Installed new replacement parts
  - 7) Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during pressure test

WASHINGTON	PUBLIC POWER
SUPPLY	SYSTEM

FORM NIS-2 (Back)	•					
Test Pressure: 955 Psig Test	Test Pressure: 955 Psig Test Temperature: 532 °F					
9. Remarks: See attached N-2 Code Data Reports for new replacement disc, Serial No 2	215585-2 and stem disc, Serial No 6033641-158					
4						
CERTIFICATE OF COMPLIAN	ICE					
We certify that the statements made in the report are correct and this ASME Code, Section XI.  Type Code Symbol Stamp: Not applicable	replacement conforms to the rules of the					
Certificate Authorization No.: Not applicable	,					
Expiration Date: Not Applicable	20 1					
Prepared by Luldip Luis Signed by	Plant Technical Manager					
Date Date	8-21-90					
CERTIFICATE OF INSERVICE INS	PECTION					
I, the undersigned, holding a valid commission issued by the National	onal Board of Boiler and Pressure Vessel					
Inspectors and the State of Washington and employed by Arkwright M	Iutual Insurance Company (Factory					
Mutual System) of Norwood, Massachusetts have inspected the comp	onents described in the Owner's Report					
during the period 4/19/90 to 8/22/90 and state to Owner has performed examinations and taken corrective measures de	the best of my knowledge and benef, the					
accordance with the requirements of the ASME Code, Section XI.	actived in this Owler's Report in					
By signing this certificate neither the Inspector nor his employer m	akes any warranty, expressed or implied,					
concerning the examinations and corrective measures described in this	s Owner's Report. Furthermore, neither					
the inspector nor his employer shall be liable in any manner for any p	ersonal injury or property damage or a					
loss of any kind arising from or connected with this inspection.						
Ann (In Commissions	955% (1)					
/Inspector's Signature	National Board, State, and Endorsements					
Date <u>8/22/90</u>						

### FORM N-2 CERTIFICATE HOLDERS' DATA REPORT FOR IDENTICAL NUCLEAR PARTS AND APPURTENANCES\*

Rudip Engls

As Required by the Provisions of the ASME Code, Section III

Not To Exceed One Day's Production

Pa. \_/\_ of \_/\_

		System Richland Washin	
ocation of installation Hanf	ord II, Richland, w	Chington 99352	•
ypo PD-422885 R/S	SA 105 A	## N/A de strength) (CRN)	1990
		(97)	
			_
abricated in accordance with Cons	st. Spec. (Div. 2 only)	4 Revision	Date
emarks: Four (4) Dis	k-Pison assemblies	for size 26 figure	1612 JMMNTY
	meed stop valve.		*•
			D C
			Ref. 5.0. E36-116
	in. design thickness (in.) <u>Fey 7</u> s' Data Reports are attached for e	Len	gth overall (ft & in.) <i>~!A</i>
men applicable, Certificate Holder	S Data neports are attached for e	actificant of this report:	, <u></u>
			•
Part or Appurtenance	National	Part or Appurtenance	National
Serial Number	Board No.	Serial Number	' Board Number
	in Numerical Order		in Numerical Order
	./^		•
(1) 2/5585-/	N/A	(26)	
(2) 2/5585-2	N/A	(27)	
(3) 2/5585-3	HA	(28)	
(4) 215585-4	J/A ·	(29)	
(5)		(30)	
(6)		(31)	
(7)		(32)	
(8)		(33)	
(9)		(34)	
10)		(35)	
11)		(36)	
12)		(37)	•
13)		(38)	
14)	`	(39)	<del> </del>
· ·		(40)	<del></del>
15)		l'	
		(41)	
16)		140	
16)	-	(42)	
16) 17) 18)		(43)	
16)		(43)	
16)		(43)	
16)		(43)	
16)		(43)	
15)		(43)	

<sup>\*</sup>Supplemental Information in the form of lists, sketches, or drawings may be used provided (1) size is 8½ × 11, (2) information in items 2 and 3 on this Data Report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

CERTIFICATION OF DESIGN
Design specifications certified by Boyd Broaks P.E. State CA Reg. no. 13655
Design report® certified by
CERTIFICATE OF SHOP COMPLIANCE
Ne certify that the statements made in this report are correct and that this (these)
NPT Certificate of Authorization No. 2-1563 Expires 11/26/91
Date 2/23/90 Name Edward Valves Trc. Signed Would (suthorized representative)
CERTIFICATE OF SHOP INSPECTION
, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Care line and employed by The Hartford Steam Boiler Inspection & Insurance Company
of Hart-Gray, CT have inspected these items described in this Data Report on 2-23-90, and state that to the
pest of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section
II. Each part listed has been authorized for stamping on the date shown above.
By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described
n this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage of
oss of any kind arising from or co <del>nnected</del> with this inspection.
Date 2-23-90 Signed Commissions (Nat'l, 8d. (Incl. endorsements) state or prov. and na.i

R 2-28-2.

# FORM N-2 N OR NPT CERTIFICATE HOLDERS' DATA REPORT FOR IDENTICAL NUCLEAR PARTS AND ABBUILTED.

NUCLEAR PARTS AND APPURTENANCES\* As Required by the Provisions of the ASME Code, Section III, Division 1

Pa	•	1	_ot_2_

0		Not To Exceed One Day's Production Pa 1 of 2							
1.	Manufactured and certified by	Rockwell Internati	ional Corp., 19	00 S. Saunders s of certificate holders	St., Raleigh, NC 276				
2	Manufactured for Washing	iton Public Power Su	iname and address of p		352-0968				
3.	Location of installation Han	iford II, Richland,	WA 99352 (name and add	iress)					
4.	Type PD-422885 R/R (drawing no.)	SA-105 . (mat'l. spec, no.)	N/A (tensile strength)	N/A (CRN)	1989 (year built)				
5.	ASME Code, Section III:	1971 Wir	nter 1971 - (addenda)	, <u>1</u> (class)	N/A (Code Case no.)				
6.	Fabricated in accordance with	h Const. Spec. (Div. 2 only)	N/A Re	vision N/A	Date N/A				
7.	Remarks: <u>Eight (8) S</u>	item Disk for 26" If	612 JMMNTY Main	Steam Isolati	on Valve.				
		<del></del>	R	ockwell S.O. N	0. 36-07399				
	,	,	•						
	Nom, thickness (in.) N/A When applicable, Certificate	<del>-</del>	•	•	th overall (ft. & in.) N/A				
	. Part or Appurtenance	National	Part or A	ppurtenance	National				

D	Part or Appurtenance Serial Number	National Board No. In Numerical Order	Part or Appurtenance National Serial Number Board Number In Numerical Order
	1) 6033641-151 2) 6033641-152 . 3) 6033641-153 . 4) 6033641-154 . 5) 6033641-155 . 6) 6033641-156 .	N/A N/A N/A N/A N/A N/A	(26) (27) (28) (29) (30) (31)
	7)6033641_157	N/A N/A	(32) (33) (34) (35) (36) (37) (38)
	14)		(39) (40) (41) (42) (43) (44)
	20)		(45) · · · · · · · · · · · · · · · · · · ·

1250 10. Design pressure\_ °F. Hydro, test pressure... N/A . at temp. °F. .psi Temp.. (when applicable) "Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is 8% X 1, (2) information in items 2 and 3 on this data report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of

this form.

Mfr. Serial No. 6033641-151-15E

• •	CERTIFICATE OF DESIG	N
Design specifications cartified by	Boyd Brooks	P. E. state CA Reg. no. 13655
	(when applicable)	
Design report* certified by Salath	jel Liell Adams, III	P. E. state NC Reg. no. 4187
	Imm operand	
	CERTIFICATE OF SHOP COMP	LIANCE
We cartify that the statements made in thi		Parts
conform to the rules of construction of ti	ne Asme Code, Section III.	•
NPT Cartificate of Authorization no.	N-1563	Expires11/25/91
		11 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1
Date: 4/7/89 Name Rockw	ell International Corp.	Signed Strandus wall
Vale / Name Rocking	(NPT Certificate Holder)	Signed journalised representation
,	* ************************************	PARIAN
	CERTIFICATE OF SHOP INSPE	CHON
		oiler and Pressure Vessel Inspectors and the state or pro-
Inco of North Carolina and emplo	lyed by Tissi & I Co.	// n 😋
		sport on $\frac{4-7-87}{}$ and state that to the
• •		ts or appurtenances in accordance with the ASME Code,
Section III. Each part listed has been aut	horized for stamping on the date shows	1 above.
By signing this cartificate, neither the in	spector nor his employer makes any w	erranty, expressed or implied, concerning the equipment
described in this data report. Furthermon	e, neither the inspector nor his employe	er shall be liable in any manner for any personal injury of
property damage or loss of any kind ariel	ing from or connected with this inspect	ion.
	)\	
Date 4-7-89 Signed	79	Commissions NO 10 8 3
	(Authorited Inspector)	(Nat7, Sd. (Incl. endorsements) state or prov. and nd.)



#### FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

1. Owner: Washington Public Power Supply System (WPPSS) Address: 3000 George Washington Way, Richland, WA

Date: 8/20/90 Sheet: 1 of 1

2. Plant: WPPSS Nuclear Power Plant (WNP)

Unit: WNP-2

Address: Hanford, Benton County, WA

- 3.(a) Work Performed by: WPPSS,3000 George Washington Way, Richland, WA
  - (b) Repair Organization P.O. No., Job No., etc.: WPPSS
- 4. Identification of System: Main Steam (MS) System
- 5. (a) Applicable Construction Code ASME Section III: 1971 Edition with Winter 1971 Addenda, Code Case: None
  - (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
- 6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
MS-V-22C	Rockwell	л-54 ·	70	N/A	1973	Replacement	Yes, Code Class 1

- 7. Description of Work: Repaired cavities on the valve body bore inside surfaces to provide smooth surface for the new replacement valve internal parts to slide on. Replaced existing internal valve parts with new replacement parts (disc and stem disc). The repair/replacement work was performed as follows.
  - 1) Prepped (blended) cavities for weld repair
  - 2) Performed MT examination on the cavities. MT examination results acceptable
  - 3) Repaired cavities by welding
  - 4) Machined the weld repaired areas
  - 5) Performed MT or PT examination on the machined surfaces. MT or PT examination results acceptable
  - 6) Installed new replacement parts
  - 7) Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during pressure test

FORM NIS-2 (Back)				
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure X Other Test Pressure: 955 Psig Test Temperature: 532 °F Component Design Pressure: 1250 Psig Temperature: 575 °F				
9. Remarks: See attached N-2 Code Data Reports for new replacement disc, Serial No 215585-1 and stem disc, Serial No 6033641-155				
·				
CERTIFICATE OF COMPLIANCE				
We certify that the statements made in the report are correct and this replacement conforms to the rules of the				
ASME Code, Section XI.				
Type Code Symbol Stamp: Not applicable Certificate Authorization No.: Not applicable				
Expiration Date: Not Applicable				
Prepared by Qualify Signed by Plant Technical Manager				
Date 8/20/90 Date 8-21-50				
Date ————————————————————————————————————				
CERTIFICATE OF INSERVICE INSPECTION				
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel				
Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory				
Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 4/19/90 to 8/22/90 and state to the best of my knowledge and belief, the				
Owner has performed examinations and taken corrective measures described in this Owner's Report in				
accordance with the requirements of the ASME Code, Section XI.				
By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither				
the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a				
loss of any kind arising from or connected with this inspection.				
And Vocant Commissions 955/0(1)				
Inspector's Signature Commissions 9556 W National Board, State, and Endorsements				
Date <u>8/22/90</u>				

22603

### FORM N-2 CERTIFICATE HOLDERS' DATA REPORT FOR IDENTICAL NUCLEAR PARTS AND APPURTENANCES\*

PLAN NO. 2-0555 ITICAL KILDER EUGB

As Required by the Provisions of the ASME Code, Section III Not To Exceed One Day's Production

1. Manufactured and certified by Edward Valves Tre 1900 J. Saunders St.

Pg. \_\_\_\_ of \_\_\_\_

ocation of installationHanf	ard II, Richland,	Washington 99352	
ype PD-422885 R/S			. 1990
		MA / N/A ensile strength) (CRN)	, (year built)
SME Code, Section III:	1971 Winter	1971 (class)	N/A
	1441.411	_	(Code Case no.)
abricated in accordance with Con	st. Spec. (Div. 2 only)	Revision/A	Date <i>N/A</i>
(a) No	6.D //·	(10.1	1/12 3444 1711
emarks: Pour (4) Dis	E-1 15an assemblies	for size 26 figure	7616 2MANTY
flite-flow bala	enced stop valve.	,	
	······································	•	
· · · · · · · · · · · · · · · · · · ·			Ref 5.0. E36-116
om. thickness (in.)N	lin. design thickness (in.) Per 🕏	E4_ Dia. ID (ft & in.) _ A/A Leng	ith overall (ft & in.) _ 시년
/hen applicable, Certificate Holde			. •
		<u> </u>	
-		] ]	•
Part or Appurtenance	National	Part or Appurtenance	National
Serial Number	Board No.	Serial Number	* Board Number
<b></b>	in Numerical Order	11 :. (	in Numerical Order
(1) 2/5585-/	1/1		
(1) 2/5585-Z		(26)	<del></del>
(3) <u>215585-3</u>	1/1	(27)	<del></del>
(4) 215585-4		. (28)	
(4)	<i>N/H</i>	(29)	<del> </del>
(6)		(30)	
		_ (31)	
(7)		(32)	<del></del>
(9)		(33)	<del></del>
10)		(34)	
11)	•	(36)	·
12)		(37)	<del> </del>
13)		(38)	<del></del>
14)	<del></del>	(39)	
15)		(40)	
16)		(41)	
17)		(42)	
18)		(43)	
19)		(44)	
201		(45)	
21)		(46)	
22)		(47)	
23)		(48)	
		(49)	***
24)		_	

CERTIFICATION OF DESIGN
Design specifications certified by Boyd Bracks P.E. State CA Reg. no. 13655  Design report* certified by 5.6. Adams III P.E. State NC Reg. no. 4487
Design report* cartified by
CERTIFICATE OF SHOP COMPLIANCE
We certify that the statements made in this report are correct and that this (these)
NPT Certificate of Authorization No
Date 2/23/90 Name Educard Valves, Tuc. Signed Withouted representative)
CERTIFICATE OF SHOP INSPECTION
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Narth Carelina and employed by The Hartford Steam Boiler Inspection & Insurance Company
of Hartford, CT have inspected these items described in this Data Report onand state that to the
best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section
III. Each part listed has been authorized for stamping on the date shown above.
By signing this cardificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described
in this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or
loss of any kind arising from or connected with this inspection.
Date 2-23-90 Signed Commissions W 10 83 [Authorized Inspector] [Nat'l, Bd. (Incl. engorsements) state or prov. and ng.)

R .....

# FORM N-2 N OR NPT CERTIFICATE HOLDERS' DATA REPORT FOR IDENTICAL Lucip Sories NUCLEAR PARTS AND APPURTENANCES\*

NUCLEAR PARTS AND APPURTENANCES\*

• • • • • • • • • • • • • • • • • • • •			0 41 1 011 1 E1	AWIACES	
Required b	y the Prov	isions of the	ASME Code,	Section III,	Division 1
•	Not To	Exceed One	Dav's Produ	ction	

		· · · · · · · · · · · · · · · · · · ·	er Supply System, Ric (name and codress of pur		.02_0300
İ	Location of installation Hat	nford II, Richla	ind, WA 99352		
	Type PD-422885 R/R	SA-105 .	N/A	N/A	-1989
	(drawing no.)	(marti, spec, no.)	(tentile strength)	(CRN)	; (Aest ornit)
•	ASME Code, Section III:	1971 (edition)	Winter 1971 - (addenda)	<u>1</u>	N/A (Code Case no.)
i	Fabricated in accordance wit	th Const. Spec. (Div. 2		sion <u>N/A</u>	Date N/A
	Remarks: <u>Eight (8) (</u>	Stem Disk for 26	ine) 5" 1612 JMMNTY Main S	Steam Isolatio	n Valve.
	•			kwell S.O. No	
,	······································				<u> </u>

1	ppurtenzace I Number	National Board No. In Numerical Order		Part or Appurtenance Serial Number	National Board Number in Numerical Order
	3641-151 3641-152 .	· · · N/A· · N/A	}-	(26)	
1	3641-153 .	N/A	-	(28)	1
1 , ,	3641-154 ·	N/Δ N/Δ	┨	(29)	<u> </u>
(6) 603	3641-156	N/A	1	(31)	
	3641-157	N/A N/A	-	(32)	
(8)603:		N/A_	1	(33)	
1,-,			]	(35)	
(11)		······································	┨	(36)	
(12)			1	(37)	
1			]	(39)	
		•	1	(40)	
(17)	. 1		1	(42)	
(18)		-, <u>,-</u> -,,,,	-	(43)	
1			1	(44)	•
			] .	(46)	
1 *	<del>-</del>		1	(47)	,
, , , , , , , , , , , , , , , , , , , ,				(48)	
	· [·			(50)	

(when soprication) "Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is 8% X 1, (2) information in items 2 and 3 on this data report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form.



(6/85)-1

ь	· · · · · · · · · · · · · · · · · · ·	MTF, Serial No. 900304121312
	CERTIFICATE OF DESIG	IN .
Design specifications cartifled by .	Royd Brooks (when explicable)	P. E. state <u>CA</u> Reg. no. 13655
Design report* certified by <u>Salathiel</u>	1 iell Adams, III (when applicable)	P. E. state NC Reg. no. 4187
	CERTIFICATE OF SHOP COM	PLIANCE
We cartify that the statements made in this rep- conform to the rules of construction of the AS		Parts
NPT Cartificate of Authorization no.	N-1563	Expires11/25/91
Date 4/7/89 Name Rockwell	International Corp. (NPT Carolicase Holder)	Signed LAR andukwal
	CERTIFICATE OF SHOP INSP	ECTION
I, the undersigned, holding a valid commission ince of North Carolina and employed by	issued by the National Board of 8	Boiler and Pressure Vessei Inspectors and the state or pro-
of Hartford, CT have inspected the	ese items described in this data r te Holder has fabricated these pa	report on $\frac{4-7-87}{}$ and state that to the ints or appurtenances in accordance with the ASME Code, on above.
By signing this certificate, neither the inspect described in this data report. Furthermore, nei	for nor his employer makes any wither the inspector nor his employ	varranty, expressed or implied, concerning the equipment ver shall be liable in any manner for any personal injury or
property damage or loss of any kind arising fr	on or connected with this inspec	
Date 4-7-89 Signed 9	Authorized Inspectory	Commissions NO 10 8'3 (Nat1. 5d. (Inct. encorsements) state or prov. and no.)

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

1. Owner: Washington Public Power Supply System (WPPSS)
Address: 3000 George Washington Way, Richland, WA

Date: 8/20/90 Sheet: 1 of 1 Unit: WNP-2

2. Plant: WPPSS Nuclear Power Plant (WNP)

- 3.(a) Work Performed by: WPPSS,3000 George Washington Way, Richland, WA
  - (b) Repair Organization P.O. No., Job No., etc.: WPPSS
- 4. Identification of System: Main Steam (MS) System
- 5. (a) Applicable Construction Code ASME Section III: 1971 Edition with Winter 1971 Addenda, Code Case: None
  - (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
- 6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
MS-V-28B	Rockwell	JS-98	96	N/A	1974	Replacement	Yes, Code Class 1

- 7. Description of Work: Repaired cavities on the valve body bore inside surfaces to provide smooth surface for the new replacement valve internal parts to slide on. Replaced existing internal valve parts with new replacement parts (disc and stem disc). The repair/replacement work was performed as follows.
  - 1) Prepped (blended) cavities for weld repair
  - 2) Performed MT examination on the cavities. MT examination results acceptable
  - 3) Repaired cavities by welding
  - 4) Machined the weld repaired areas
  - 5) Performed MT or PT examination on the machined surfaces. MT or PT examination results acceptable
  - 6) Installed new replacement parts
  - 7) Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during pressure test

S	WASHINGTON	PUBLIC POXER
	SUPPLY	SYSTEM

•	
FORM NIS-2 (Back)	
3. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure: 955 Psig Test Temperature: 5  Component Design Pressure: 1250 Psig Temperature: 5	re: 532°F
9. Remarks: See attached N-2 Code Data Reports for new replacement disc, Serial No 215585-3 and s	stem disc, Serial No 6033641-151
CERTIFICATE OF COMPLIANCE	
We certify that the statements made in the report are correct and this replacement of ASME Code, Section XI.  Type Code Symbol Stamp: Not applicable Certificate Authorization No.: Not applicable Expiration Date: Not Applicable  Prepared by Lucy Signed by  Plant Te	conforms to the rules of the
CERTIFICATE OF INSERVICE INSPECTION	
I, the undersigned, holding a valid commission issued by the National Board Inspectors and the State of Washington and employed by Arkwright Mutual Insur Mutual System) of Norwood, Massachusetts have inspected the components described during the period 4/19/10 to 8/22/10 and state to the best of a Owner has performed examinations and taken corrective measures described in the accordance with the requirements of the ASME Code, Section XI.  By signing this certificate neither the Inspector nor his employer makes any was concerning the examinations and corrective measures described in this Owner's Respector nor his employer shall be liable in any manner for any personal injurious of any kind arising from or connected with this inspection.  Mattheway Commissions 9550	rance Company (Factory ribed in the Owner's Report my knowledge and belief, the his Owner's Report in arranty, expressed or implied, Report. Furthermore, neither ry or property damage or a
Date 8/22/90	•

### FORM N-2 CERTIFICATE HOLDERS' DATA REPORT FOR IDENTICAL NUCLEAR PARTS AND APPURTENANCES\*

PLAN NO. 2-0556 AL Rudip Eurs

As Required by the Provisions of the ASME Code, Section III

<u> </u>		One Day's Production	Pg/ or
lanufactured and certified by Æ	dward Valves, Inc.,	1900 J. Saunders St., Ra	eigh, NC 22603
lanufactured for Washington	n Public Power Swool	System, Richland Wash	linston 99352
		the state of the s	· · · · · · · · · · · · · · · · · · ·
ocation of installation _ Hant	ard II Richland	Washington 99352	
ype PD-422885, R/S (drawing no.)	5A 105	WA NA (tensile strength) (CRN)	1995 (vear built)
-		ammel a	(year ount)
SME Code, Section III:	(adipon) (ad	cr 1971 (class)	(Code Case ng.)
		N/A Revision N/A	
emarks: Four (4) Dis	sk-Pison assembli	es for size 26 figur	E 1612 JMMNTY
			**
flite-flow bal	anced stop valve		
			1- 4
	· · · · · · · · · · · · · · · · · · ·		(Ref. 5.0. E36-116
om. thickness (in.)!	Vijn. design thickness (in.) 🕰	#4_ Dia. ID (ft & in.) _ N/A L	ength overall (ft & in.)//A
/hen applicable, Certificate Holde	ers' Data Reports are attached	for each item of this report:	
<del></del>	<del></del>	<del></del>	<del></del>
Part or Appurtenance	National	Part or Appurtenance	National
Serial Number	Board No.	Serial Number	' Board Number
~	in Numerical Order	1.	in Numerical Order
(1) 2/5585-/	1/4	lanci .	
(1) <u>215585-2</u>	1/4	(26)	
(3) <u>215585-3</u>	NA	(27)	<del>-  </del>
(4) 215585-4	J/A	(29)	
(5)		(30)	
(6)		(31)	
(7)		(32)	
(8)		(33)	
(9)	<u> </u>	(34)	
10)	<u> </u>	(35)	
11)		(36)	<del></del>
12)		(37)	
13)		(38)	
14)	<u> </u>	(39)	
15)	<del></del>	(40)	
16)			
17)		(42)	
18)		(43)	<del></del>
19)			<del></del>
20)		(45)	_
21)	<del> </del>		<del>- </del>
001		(47)	<del></del>
22)	<del> </del>		ì
23)		(48)	
22)			

\*Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is 8% × 11, (2) information in items 2 and 3 on this Data Report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(when applicable)

#### FORM N-2 (back)

Mfr. Serial No. 215585 - 1 Hru4

CERTIFICATION OF DESIGN
Design specifications certified by Boyd Bracks P.E. State CA Reg. no. 13655
Design report* certified by
CERTIFICATE OF SHOP COMPLIANCE
We certify that the statements made in this report are correct and that this (these)
NPT Cartificate of Authorization No. 3-1563 Expires 11/26/91
Date 2/23/90 Name Educad Values Tac. Signed Working (authorized representative)
CERTIFICATE OF SHOP INSPECTION
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Care in and employed by The Hartford Steam Soiler Inspection & Insurance Company
of Harbford, CT have inspected these items described in this Data Report on 2-23-90, and state that to the
best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section
III. Each part listed has been authorized for stamping on the date shown above.
By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described
in this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or
loss of any kind arising from or connected with this inspection.
Date 2-23-90 Signed Commissions Commissions Commissions
[Nat'l. 8d. (incl. encorsements) state or prov. and no.i

R 2-28-72.

Date: 8/20/90

Sheet: 1 of 1

Unit: WNP-2

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

1. Owner: Washington Public Power Supply System (WPPSS)

Address: 3000 George Washington Way, Richland, WA

2. Plant: WPPSS Nuclear Power Plant (WNP)

Address: Hanford, Benton County, WA

3.(a) Work Performed by: WPPSS,3000 George Washington Way, Richland, WA

(b) Repair Organization P.O. No., Job No., etc.: WPPSS

4. Identification of System: Main Steam (MS) System

5. (a) Applicable Construction Code ASME Section III: 1971 Edition with Winter 1971 Addenda, Code Case: None

(b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980
Addenda, Code Case: N-308

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
MS-V-28C	Rockwell	JU-17	77	N/A	1973	Replacement	Yes, Code Class 1

- 7. Description of Work: Repaired cavities on the valve body bore inside surfaces to provide smooth surface for the new replacement valve internal parts to slide on. Replaced existing internal valve parts with new replacement parts (disc and stem disc). The repair/replacement work was performed as follows.
  - 1) Prepped (blended) cavities for weld repair
  - 2) Performed MT examination on the cavities. MT examination results acceptable
  - 3) Repaired cavities by welding
  - 4) Machined the weld repaired areas
  - 5) Performed MT or PT examination on the machined surfaces. MT or PT examination results acceptable
  - 6) Installed new replacement parts
  - 7) Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during pressure test

6	WASHINGTON	PUBLIC	POWER
5	SUPPLY	SYS	TEM

	SUPPLY SYSTEM PLAN NO. 2-0557								
	FORM NIS-2 (Back)								
8.	Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure X Other  Test Pressure: 955 Psig Test Temperature: 532 °F  Component Design Pressure: 1250 Psig Temperature: 575 °F								
9.	Remarks: See attached N-2 Code Data Reports for new replacement disc, Serial No 215585-4 and stem disc, Serial No 6033641-157								
	CERTIFICATE OF COMPLIANCE								
	We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.  Type Code Symbol Stamp: Not applicable Certificate Authorization No.: Not applicable Expiration Date: Not Applicable  Prepared by  Signed by  Plant Technical Manager								
	Date 8/20/90 Date 5-21-90								
	CERTIFICATE OF INSERVICE INSPECTION								
1	I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 4/9/90 to 8/22/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.  By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.  Commissions								
	Inspector's Signature National Board, State, and Endorsements								
	Date 8/22/90								

# FORM N-2 N OR NPT CERTIFICATE HOLDERS' DATA REPORT FOR IDENTICAL NUCLEAR PARTS AND APPURTENANCES\*

As Required by the Provisions of the ASME Code, Section III, Division 1

, ,		_				
2 ) }	. Nat	To	FYCOON	One Day		Draduation
			-	Oue Da	y ə	Production

Man	nufactured and certified by .	Rockwell Interna	<u>tional</u>	COTD.	1900 S. Saunder	s St., Raleigh, NC
Man	nufactured for Washing	ton Public Power S	Supply	System	i, Richland, WA 9	9352-0968
Loc	ation of installation <u>Han</u>	ford II, Richland		352		ı.
	DD 40000T D/D	C4 105			and address)	
Тур	e PD-422885 R/R (drawing no.)	SA-105 .			N/A	
	(assining no.)	(mat'l, spec, no.)	•	≓e strength)	(CRN)	(Aest projet)
ASI	ME Code, Section III:		inter 1		<u> </u>	N/A
		(edition)	(addend		(dass)	(Code Case no.)
Fab	ricated in accordance with	Const. Spec. (Div. 2 only	() <u> </u>	I/A	RevisionN/A	Date N/A
Ren	narks: <u>Fight (8) S</u>	tem Disk for 26"	1612 JN	MNTY M	ain Steam Isolat	ion Valve
					Rockwell S.O.	No. 36-07399
						•
Whe	en applicable, Certificate H	folders' data reports are	attached	or each i	tem of this report:	ngth overall (ft. & in.) N/A
	Part or Appurtenance	National	11	Part	or Appurtenance	National
	Serial Number	Board No.			Serial Number	Board Number
		in Numerical Order			*	In Numerical Order
						m manighest Vigor
(1)_	- 6033641-151-	N/A	-	26)		
(2)		N/A				
(3)		N/A	<u> </u>	28)		
(4)		N/A		29)		
(5) _	4-4-4-	N/A				
(6)		N/A				M-7-7-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-
(7)		N/A	, , ,			
(8)		N/A				
	5023041-136					
			1 1			
			1 1			
(13)		<del></del>				
						•
				(39)		•
		•		(40) (41)		·
				(42)		, , , , , , , , , , , , , , , , , , , ,
/						<del></del>
/191			1 1			<del></del>
						•
(19)		·	1 1			
(19) (20)		·		[40]		<del></del>
(19) (20) (21)			1 1		J	
(19) (20) (21) (22)				(47)		
(19) (20) (21) (22) (23)	•			(47) (48)		
(19) (20) (21) (22) (23) (24)				(47) (48) (49)		

\*Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is 8% X 1, (2) information in iter-2 and 3 on this data report is included on each sheet, (3) sech sheet is numbered and the number of sheets is recorded at the top \_ this form,



(6/85)-1

This form (E00040) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, 'N.Y. 1001"

(when applicable)

### FORM N-2 (back)

Mfr. Serial No. 6033641-151-

CERTIFICATE OF DESIGN (158)  Rudip Sup 5  Class CA Flore 13655
(when applicable)
•
Design report* certified by Salathiel Liell Adams, III P. E. state NC Reg. no. 4187
(when applicables
CERTIFICATE OF SHOP COMPLIANCE
the specific about the extension made in this speed are consist and that this library. Dayte
We certify that the statements made in this report are correct and that this (these) Parts
conform to the rules of construction of the ASME Code, Section III.
NPT Cartificate of Authorization no. N-1563 Expires 11/26/91
IALI CALCITICATE OF MUNICIPALITY INC.
Date 4/7/89 Name Rockwell International Corp. Signed Conductive Co
(NPT Carolicate Holder) (ownString representation)
- : 0
CERTIFICATE OF SHOP INSPECTION
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the state or pro- Ince of North Carolina and employed by HSBI & I Co.
of Hartford, CT have inspected these Items described in this data report on 4-7-89 and state that to the
best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code,
Section III. Each part listed has been authorized for stamping on the date shown above.
By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the equipment
described in this data report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or
property damage or loss of any kind arising from or connected with this inspection.
Date 4-7-89 Signed Commissions NC 10 43
(Nat'l. Ed. (Incl. encorsements) state or prov. and no.)

# FORM N-2 CERTIFICATE HOLDERS' DATA REPORT FOR IDENTICAL NUCLEAR PARTS AND APPURTENANCES\*

Paraip & 5/4/90

As Required by the Provisions of the ASME Code, Section III
Not To Exceed One Day's Production

Pg. \_\_\_\_ of \_\_\_\_

1.	. Manufactured and certified by Edward Valves, Tac. 1900 S. Saunders St., Raleigh, NC 20603								
2,	Manufactured for Washington Public Power Supply System, Richland Washington 59352								
3.	Location of installation Hanford II Richland, Washington 99352								
	(neffe and address)								
4.	Type PD=422885 R/S SA 105 WA N/A 1990 (drawing no.) (mat'l. spec. no.) (tensile strength) (CRN) (year built)								
	(CAN) Systematic (CAN)								
È	ASME Code, Section III: 1971 Winter 1971								
J.	(fedition) (addends date) (class) (Code Case no.)								
6.	Fabricated in accordance with Const. Spec. (Div. 2 only)								
	ina.i								
7	Remarks: Four (4) Disk-Pisan assemblies for size 26 figure 1612 JMMNTY								
/.	nemarks:								
	flite-flow balanced stop valve								
	· (Ref 5,0. E36-11692)								
Ω	Nom. thickness (in.) Nom. thic								
9.	When applicable, Certificate Holders' Data Reports are attached for each item of this report:								
	the state of the s								
	1 1								

Part or Appurtenance	National	Part or Appurtenance	National
Serial Number	Board No.	Serial Number	Board Number
	in Numerical Order		in Numerical Order
2.000	./0		}
(1) 2/5585-/	N/A	(26)	<u> </u>
2) 215585-2	N/A	(27)	<u> </u>
31 215585-3	N/A	(28)	<u> </u>
1) 215585-4	- NA	(29)	<u> </u>
5)		(30)	<u> </u>
3)		(31)	
7)		(32)	
3)		(33)	
9)		(34)	
0)		(35)	<u> </u>
1)		(36)	<u> </u>
21		(37)	<i>'</i>
13)		(38)	
4)	`	(39)	
(5)		(40)	
(6)		(41)	
17)		(42)	
(8)		(43)	
19)		(44)	
20)		(45)	
21)		(46)	
22)		(47)	
231			<u> </u>
•		(48)	•
24)		(49)	<del> </del>
25)		(50)	<u> </u>

\*Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is  $8\% \times 1^{1}$ , (2) information in items 2 and 3 on this Data Report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(when applicable)

## FORM N-2 (back)

Mfr. Serial No. 2/5585 - / Hr. 4

CERTIFICATION OF DESIGN
Design specifications certified by Boyd Bracks P.E. State CA Reg. no. 13455
Oesign report* certified by
CERTIFICATE OF SHOP COMPLIANCE
, We cartify that the statements made in this report are correct and that this (these) Posts
NPT Certificate of Authorization No
Date 2/23/90 Name Educad Valves, Tac. Signed Would (authorized representative)
CERTIFICATE OF SHOP INSPECTION '
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Martha Carolina and employed by The Harthard Steam Suiler Inspection & Incurance Company
of Hart-God, CT have inspected these items described in this Data Report on 2-23-90, and state that to the
best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section
III. Each part listed has been authorized for stamping on the date shown above.
By signing this cartificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described
in this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or
loss of any kind arising from or connected with this inspection.  Date 2-23-90 Signed Commissions (Nat'l. 2a. Inc., encorsements) state or array, and real

£ 2.28-72.

## FORM N-2 N OR NPT CERTIFICATE HOLDERS' DATA REPORT FOR IDENTICAL NUCLEAR PARTS AND APPURTENANCES\*

Budip Sur - 6/4/90

As Required by the Provisions of the ASME Code, Section III, Division 1
Not To Exceed One Day's Production

	, No	ot To Exceed One	Day's P	roduction	 	Pa <u>1</u>	01_	2
I. Manufactured and certified by	Rockwell ·	International		1900 S.	St.,	Raleigh,	NC	276

2. Manufactured for Washington Public Power Supply System, Richland, WA 99352-0968

3.	Locatio	on of installati	on <u>Hanf</u>	ord II, Rich	land,	WA 9	9352	<del> </del>			····	
	(name and address)											
4.	Туре	PD-422885	R/R	SA-105 .			N/A		N/A		1989	
	,,	(drawing no	<b>3.</b> }	(mati. spec. no.	)	(te	nske strength)		(CRN)	_	(year built)	
5.	ASME	Code, Section	111:	1971	<u>Wir</u>	<u>iter</u>	1971 .		1		N/A	
-				(edition)		[adder	nda)		(class)		(Code Case no.)	
6.	Fabric	ated in accord	ance with	Const. Spec. (Div. :	2 only)		N/A	_Revision .	N/A	Date .	N/A	
							(Na.)					
7.	Remai	rks: <u>Eight</u>	: (8) St	em Disk for ?	26" 16	نـ 12	MMNTY M	ain Stea	m Isolatio	n Valv	<u>e</u>	
									•			
								_ Rockwe	11 S.O. No	. 36-0	7399	

8. Nom. thickness (in.) N/A Min. design thickness (in.) Per=4 Dia. ID (ft. & in.) N/A Length overall (ft. & in.) N/A

9. When applicable, Certificate Holders' data reports are attached for each item of this report:

Part or Appurtenance Serial Number	National Board No. In Numerical Order	Part or Appurtenance Serial Number	National Board Number In Numerical Order
. 6033641-151	· · · N/A· · ·	- (26) <u> </u>	·
6033641-152	N/A	(27)	
6033641-153	N/A	1	
6033641-154	N/A	lance	
6033641-155	N/A	1.00	
6033641-156	N/A	(31)	<u></u>
6033641-157	N/A	(32)	
6033641-158	N/A	(33)	
))		(34)	
0)		(35)	
(1)		(36)	
(2)		(37)	
(3)		(38)	
(4)		(39)	·
5	-,	(40)	·
16)	··	(41)	
17)		(42)	
8)		, , , , , , , , , , , , , , , , , , , ,	
		(44)	
(0)		(45)	
21)			
22)		(47)	
-7/		(49)	
25)		(50)	

(when applicable)
"Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is 8½ X 1, (2) information in itself and 3 on this data report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top this form.

### FORM N-2 (back)

Mfr. Serial No. 6033641-151

• • •	CERTIFICATE OF DESIG	IN (158) Rudip &	The second
Design specifications cartifled by	Boyd Brooks	P. E. state CA	Red. no. 13655
Societies of the second	(when applicable)		
Design report* certifled by Salathie	I Liell Adams, III	P. E. state NC	Reg. no. 418
	(when applicable)		•
	CERTIFICATE OF SHOP COMP	PLIANGE	
We certify that the statements made in this r	sport are correct and that this (these	Parts	
conform to the rules of construction of the		·	
NPT Cartificate of Authorization no.	N-1563	Expires11/26/91	
			1 1
Date 4/7/89 Name Rockwell	1 International Corp.	Signed Signed	wewself
	(NPT Cartificate Holder)	- isotation and recognition	
	CERTIFICATE OF SHOP INSP	ECTION	
I, the undersigned, holding a valid commission of North Carolina and employed		Boiler and Pressure Vessel Inspector	s and the state or pro-
of Hartford, CT have inspected	these items described in this data r	eport on <u>4-7-89</u>	, and state that to the
best of my knowledge and belief, the Certifi			with the ASME Code,
Section III. Each part listed has been author	rized for stamping on the date show	n above.	•
By signing this certificate, neither the inspe	ector nor his employer makes any w	varranty, expressed or implied, cond	aming the equipment
described in this data report. Furthermore, r	neither the inspector nor his employ	er shall be liable in any manner for	any personal injury or
property damage or loss of any kind arising	from or connected with this inspec	tion.	
	/		
Date 4-7-89 signed	3	_Commissions_NC_1083	
7 Au	Chulhonzed Inspectory	(Nat7. Bd. (incl. endorsem	ents) state or prov. and no.)

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

1. Owner: Washington Public Power Supply System (WPPSS)
Address: 3000 George Washington Way, Richland, WA

Date: 10/17/90 Sheet: 1 of 1 Unit: WNP-2

2. Plant: WPPSS Nuclear Power Plant (WNP)

- 3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA
  - (b) Repair Organization P.O. No., Job No., etc.: WPPSS
- 4. Identification of System: Main Steam (MS) System
- 5. (a) Applicable Construction Code ASME Section III Code Class 1, 1971 Edition with Winter 1973 Addenda, Code Case: None
  - (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
- 6. Identification of Components Repaired or Replaced and Replacement Components

	ne of onent	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
B22-C	5001D	WPPSS	B22-G001D-P1	N/A	N/A	1983	Replacement	Yes, Code Class 1

- 7. Description of Work: Replaced existing relief valve MS-RV-1D with new replacement relief valve. The replacement work was performed as follows:
  - 1) Removed existing relief valve MS-RV-1D, Serial No N63790-00-0050 with set pressure of 1175 PSIG at rated temperature of 575 F
  - 2) Installed new replacement relief valve Serial No N63790-00-0122 with set pressure of 1175 PSIG at rated temperature of 575 F
  - 3) Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during the pressure test

	WASHINGTON I	UBLIC POWER
S	SUPPLY	SYSTEM

	·
	FORM NIS-2 (Back)
8. T	ests Conducted: Hydrostatic Pneumatic X Nominal Operating Pressure X Other Test Pressure: 957/6.7 Psig Test Temperature: 535/74.8 °F Component Design Pressure: 1250/500 Psig Temperature: 575/470 °F
9. R	emarks: See attached NV-1 Code Data Report for new replacement relief valve MS-RV-1D, Serial No N63790-00-0122
	<ul> <li>Component design pressure 1250 PSIG, temperature 575 F for relief valve inlet piping and component design pressure 500 PSIG, temperature 470 F for relief valve outlet piping</li> <li>Nominal operating pressure test on relief valve inlet flanged joint (Code Class 1) - test pressure 957 PSIG, test temperature 535 F</li> <li>Pneumatic test on relief valve outlet flanged joint (Code Class 3), body to bonnet flanged joint (Code Class 1), nozzel ring and adjusting ring set screw joints (Code Class 1) - test pressure 6.7 PSIG, test temperature 74.8 F</li> </ul>
	CERTIFICATE OF COMPLIANCE
1	We certify that the statements made in this Owner's Report are correct and this replacement conforms to the rules of the ASME Code, Section XI.  Type Code Symbol Stamp: Not applicable  Certificate Authorization No.: Not applicable  Expiration Date: Not Applicable  Prepared by    Code Symbol Stamp: Not Applicable
	CERTIFICATE OF INSERVICE INSPECTION
	I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 4390 to 10/17/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.  By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.  Commissions 9556 w  National Board, State, and Endorsements
	Date 10/18/90



# CROSBY VALVE & GAGE COMPANY WRENTHAM, MASS

FORM NV-1 FOR SAFETY AND SAFETY RELIEF VALVES As Required by the Provisions of the ASME Code Rules

1. 200

Q.C.-44D

## DATA REPORT Safety and Safety Relief Valves

•			•
1.	Manufactured By Crosby Valve &	Gage Company, 43 Kendrich	k St., Wrencham, MA 02093
	Madel No. III .65 .DD .EN . gaden No.	•	te 4/24/79 National Board No. N/A
	General El	ectric Company, 175 C	Curtner Ave.,
2.	Manufactured For San Jose,	CA 95125 e and Address	Order No. 205-AJ986
3.	Owner Washington Public P	ower Supply System, F	Richland Washington 99352
Ł	Location of Plant Hanford Re	servation. Richland.	Washington 99352
5.	Valve Identification MPL #B22-	F013erial No. <u>N63790-00</u>	0-0122 Drawing No. DS-A-63790 Rev. (
			Pipe Size Inlet 6 Outlet 10
	Safety, Safety Relief, Pilo Power Actuated	c, Inc	h Inch Inch Inch
6.	Set Pressure (psig) 1175		575 <sup>0</sup> ·F
	00/ 21	/ n 2	Rated Temperature
	tamped Capacity 884,31		
	Hydrostatic Test (psig) Inlet		975 psig (Assembled Valve) 1100 psig (Body Only)
Pr	essure Retaining Pieces	(Applical	ble to Valves for Closed Systems Only)
	-	Serial No.	Macerial Specification
2.	Bar Stock & Forgings	Identification	Including Type or Grade
	Body	<u>พ93183-36-0085</u>	ASTM A105-71 Gr. II ASME SA105 Gr. II
	-		ASTM A105-71 Gr. II ASME SA105 Gr. II
١.	Bonnet	<u>พ93407–36–0097</u>	ASME SALUS GF. II
٥.	SHEKEKEKEKEKEKEKE SHEKKEKEKEKE Disc Insert	N93185-37-0153	ASME SA637 Gr. 718
	•		· · · · · · · · · · · · · · · · · · ·
	Nozzle .	N93184-33-0070	ASME SA182 Gr. F316
	Disc Holder K55484-31-0016 _	N89714-31-0014	AMS. 5662B
	Spring Washers K62858-36-0080_	K62856-36-0107 K62857-36-0121	ASME SA105 Gr. II
	Adjusting Bolt	N93410-33-0071	ASME SA193 Gr. B6
	Spindle Point K62873-37-0135	N89720-43-0145	ASME SA564 Type 630
c.	Spring K62858-36-0080 _	*N89722-0085	ASTM A304-66 Gr. 4161H
d.	Boleing Spindle Ball XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX		Stoody #6
	_	<u> </u>	Stoody #6
	Thrust Bearing Adapter	N93409-32-0068	ASME SA193 Gr. B6  ASTM A193-/1 Gr. B7  ASME SA193 Gr. B7
	4	9) N93207-1498 thru 37) N93210-1009 thru	
			35'0M 3193-71 (-r. 37
			ASTM A194-71 Gr. 2H
	Inlet Stud Nut (BWZ	<sup>22</sup> ) N93218-1365 thru	1376 ASME SA194 Gr. 2H
	k	V07/11 22 0076	ACUE 63103 GF 36

.alve originally built against Crosby Order No. NS1727, Assembly No. NS6000. Valve modification consists of replacement of the Disc Insert, Nozzle, Bonnet Stud Nuts, Adjusting Bolt, and Thrust Bearing Adapter, remachining of the Body, Spring Washers, Bonnet, and Spindle Assembly, and adding an Adjusting Bolt Button Assembly. New Serialization is required unless indicated by an asterisk.

Original nameplate removed and new nameplate attached.

N63790-00-0188

#### CERTIFICATE OF COMPLIANCE

to the rules of construction of the ASME Code for Nuclear Power Plant Components, Section III, Div. 1, 1971 Edition, Addenda No Addenda , Code Case No. 1567 & 1711 .  Class 1 (Date)  Date //S/BO Signed Crosby Valve & Gage Co. by // Certificate Holder)  Our ASME Certificate of Authorization No. 1878 to use the NV  symbol expires September 30, 1983 (Date)  CERTIFICATION OF DESIGN  Design information on file at Crosby Valve & Gage Company  Stress analysis report (Class 1 only) on file at Crosby Valve & Gage Company  43 Kendrick Street, Wrentham, Massachusetts 02093  Design specifications certified by Books						
Class						
(N Certificate Holder)  Our ASME Certificate of Authorization No. 1878 to use the NV  symbol expires September 30, 1983  (Date)  CERTIFICATION OF DESIGN  Design information on file at Crosby Valve & Gage Company  Stress analysis report (Class 1 only) on file at Crosby Valve & Gage Company  43 Kendrick Street, Wrentham, Massachusetts 02093						
Cur ASME Certificate of Authorization No. 1878. to use the NV  symbol expires September 30, 1983  (Date)  CERTIFICATION OF DESIGN  Design information on file at Crosby Valve & Gage Company  Stress analysis report (Class 1 only) on file at Crosby Valve & Gage Company  43 Kendrick Street, Wrentham, Massachusetts 02093						
CERTIFICATION OF DESIGN  Design information on file at Crosby Valve & Gage Company  Stress analysis report (Class 1 only) on file at Crosby Valve & Gage Company  43 Kendrick Street, Wrentham, Massachusetts 02093						
CERTIFICATION OF DESIGN  Design information on file at Crosby Valve & Gage Company  Stress analysis report (Class 1 only) on file at Crosby Valve & Gage Company  43 Kendrick Street, Wrentham, Massachusetts 02093						
Design information on file at Crosby Valve & Gage Company  Stress analysis report (Class 1 only) on file at Crosby Valve & Gage Company  43 Kendrick Street, Wrentham, Massachusetts 02093						
Design information on file at Crosby Valve & Gage Company  Stress analysis report (Class 1 only) on file at Crosby Valve & Gage Company  43 Kendrick Street, Wrentham, Massachusetts 02093						
Stress analysis report (Class 1 only) on file at Crosby Valve & Gage Company 43 Kendrick Street, Wrentham, Massachusetts 02093						
Stress analysis report (Class 1 only) on file at Crosby Valve & Gage Company 43 Kendrick Street, Wrentham, Massachusetts 02093						
43 Kendrick Street, Wrentham, Massachusetts 02093						
Part of the state						
Design specifications certified by						
PE State California Reg. No. 13655						
Stress report certified by W.D. Greenlaw						
PE State Massachusetts Reg. No. 14784						
Signature not required - list name only.						
CERTIFICATE OF SHOP INSPECTION						
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Fressure Vessel Inspectors and the State or Province of Massachusetts						
and employed by Factory Mutual Systems* of Norwood, Massachusetts						
have inspected the pump, or valve, described in this Data Report on $1/9$ , $195/$ and state that to the best of my knowledge and belief, the N Certificate Holder has						
constructed this pump, or valve, in accordance with the ASME Code for Nuclear Power Plant						
Components.						
By signing this certificate, neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the equipment described in this Data Report. Further-						
more, neither the Inspector nor his employer shall be liable in any manner for any						
personal injury or property damage or a loss of any kind arising from or connected with this inspection.						

Commissions

Bd., State, Prov. and No.)

Dace\_\_\_\_\_\_Signed

<sup>\*</sup>Arkwright-Boston Manufacturers Mutual Insurance Company - Mutual Boiler & Machinery Div.

## FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

Owner: Washington Public Power Supply System (WPPSS)
 Address: 3000 George Washington Way, Richland, WA

Date: 10/17/90 Sheet: 1 of 1 Unit: WNP-2

2. Plant: WPPSS Nuclear Power Plant (WNP)

- 3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA
  - (b) Repair Organization P.O. No., Job No., etc.: WPPSS
- 4. Identification of System: Main Steam (MS) System
- 5. (a) Applicable Construction Code ASME Section III Code Class 1, 1971 Edition with Winter 1973 Addenda, Code Case: None
  - (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
- 6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
B22-G001D	WPPSS	B22-G001D-P1	N/A	N/A	1983	Replacement	Yes, Code Class 1

- 7. Description of Work: Replaced existing relief valve MS-RV-3D with new replacement relief valve. The replacement work was performed as follows:
  - 1) Removed existing relief valve MS-RV-3D, Serial No N63790-00-0056 with set pressure of 1195 PSIG at rated temperature of 575 F
  - 2) Installed new replacement relief valve Serial No N63790-00-0126 with set pressure of 1195 PSIG at rated temperature of 575 F
  - 3) Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during the pressure test

FORM NIS-2 (Back)	
8. Tests Conducted: Hydrostatic Pneumatic X Nominal Operating Pressure X Other	
Test Pressure: 957/6.7 Psig Test Temperature: 535/74.8 °F	
Component Design Pressure: 1250/500 Psig Temperature: 575/470 °F	
, — — postal 2 005 1 000 mov on 1,000 mg	
9. Remarks: See attached NV-1 Code Data Report for new replacement relief valve MS-RV-3D, Serial No N63790-00-0126	
<ul> <li>Component design pressure 1250 PSIG, temperature 575 F for relief valve inlet piping and component design pressure 500 PSIG, temperature 470 F for relief valve outlet piping</li> <li>Nominal operating pressure test on relief valve inlet flanged joint (Code Class 1) - test pressure 957 PSIG, test temperature 535 F</li> <li>Pneumatic test on relief valve outlet flanged joint (Code Class 3), body to bonnet flanged joint (Code Class 1), nozzle ring and adjuring set screw joints (Code Class 1) - test pressure 6.7 PSIG, test temperature 74.8 F</li> </ul>	ısting
CERTIFICATE OF COMPLIANCE	
We certify that the statements made in this Owner's Report are correct and this replacement conforms to the rules of the ASME Code, Section XI.	
Type Code Symbol Stamp: Not applicable .	
Certificate Authorization No.: Not applicable	-
Expiration Date: Not Applicable	
Prepared by Kuloup Enich Signed by Plant Technical Manager	_
Date 10)18/90 Date 1800790	
CERTIFICATE OF INSERVICE INSPECTION	
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vess Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory	el
Mutual System) of Norwood, Massachusetts have inspected the components described in this Owner's Report	. I
during the period 4/3/90 to 10/17/90 and state to the best of my knowledge and belief, the	
Owner has performed examinations and taken corrective measures described in this Owner's Report in	
accordance with the requirements of the ASME Code, Section XI.	.
By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied	
concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a	T
loss of any kind arising from or connected with this inspection.	
A. M. Samurianiana	
Commissions 9556W Inspector's Signature National Board, State, and Endorsements	
Date 10/18/90	

## CROSBY

K63618-33-0079

# CROSBY VALVE & GAGE COMPANY

WRENTHAM, MASS

FORM NV-1 FOR SAFETY AND SAFETY RELIEF VALVES
As Required by the Provisions of the ASME Code Rules

Q.C.-44D

## DATA REPORT Safety and Safety Relief Valves

1.	Manufactured By Crosby Valv	ve & Gage Company, 43 Kendrick St	t Wrentham, MA 02093
	CE ND TO	Name and Address	1/2//79 Nordonal Board No. N/A
	Hodel No. HB-03-BP-IN Orde General	Electric Company, 175 Curt	4/24/79 National Board No. N/A ner Ave.,
2.	Manufactured For San Jose	e. CA 95125	Order No. 205-AJ986
_	- Washington Bublide	Name and Address Power Supply System, Richla	and Washington 99352
		Name and Address	
4.	Location of Plant Hanford	Reservation, Richland, Wash	hington 99352
			126 Drawing No. DS-A-63790 Rev. (
٥.		_	
	Type <u>Safety Relief</u> Safety, Safety Relief,	Orifice Size R P:	ipe Size Inlet 6 Outlet 10 Inch Inch
	Power Actuated		
6.	Set Pressure (psig) 1199	5	575° F
	200	106 - 2	Rated Temperature
	Stamped Capacity 899,		Blowdown (psig) 2% to 11% 75 psig (Assembled Valve)
	Hydrostatic Test (psig) Inle	et 2370 Outlet Il(	00 psig (Body Only)
D+	essure Retaining Pieces	(Applicable	to Valves for Closed Systems Only)
	essure weraining . Teres	Serial No.	Material Specification
	Bar Stock & Forgings	Identification	Including Type or Grade
8.	Bar Stock & Forgings		ASTM A105-71 Gr. II
	Body	<u>N93183-36-0089</u>	ASME SA105 Gr. II ASTM A105-71 Gr. II
	Bonnet	N93407-36-0095	ASME SA105 Gr. II
ь.	NAMES AND STREET ASSESSEDANCE ASSESSEDA		
	Suppossible Disc Insert	N93185-37-0159	ASME SA637 Gr. 718
	Nozzle	N93184-33-0074	ASME SA182 Gr. F316
	Disc Holder K55484-31-0	002 N89714_31-0003	AMS 5662B
		K62856-36-0114	
	Spring Washers K62858-36-	010 <u>5 K62857-36-0101</u>	ASME SA105 Gr. II
	Adjusting Bolt	N93410-33-0074	ASME SA193 Gr. B6
	Spindle Point K62873-37-	0134 N89720-43-0154	ASME SA564 Type 630
, <b>c.</b>	Spring K62858-36-0105	*N89722-0056	' ASTM A304-66 Gr. 4161H
d.	Bolting		
e.	Spindle Ball K62873-37-0	134 N93213-0201	Stoody #6
	Thrust Bearing Adapter	N93409-32-0067	ASME SA193 Gr. B6
	Bonnet Stud	(BW19) N93207-1534 thru 154.	5 ASTM A193-71 Gr. B7 ASME SA193 Gr. B7
_	Bonnet Stud Nut	(J87) N93210-1057 thru 106	8 ASME SA194 Gr. 2H
	Inlet Stud	(BW18) N93216-1685 thru 169	6 ASIM SA193-/1 Gr. B7
		(BW22) N93218-1401 thru 141	2 ASTM A194-71 Gr. 2H ASME SA194 Gr. 2H
	Inlet Stud Nut		
	Addusting Bolt Bur on	N93411-33-0079	ASME SA193 Gr. B6

Valve originally built against Crosby Order No. N51727, Assembly No. N56000. Valve modification consists of replacement of the Disc Insert, Nozzle, Bonnet Stud Nuts, Adjusting Bolt, and Thrust Bearing Adapter, remachining of the Body, Spring Washers, Bonnet, and Spindle Assembly, and adding an Adjusting Bolt Button Assembly. New Serialization is required unless indicated by an asterisk. Original nameplate removed and new nameplate attached.

N63790-00-0126						
CERTIFICATE OF COMPLIANCE						
We certify that the statements made in this report are correct and that this valve conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components, Section III, Div. 1, 1971 Edition, Addenda No Addenda , Code Case No. 1567 & 1711 .  Class (Date)						
Date 11-5-80 Signed Crosby Valve & Gage Co. by P.G. Caranas (N Certificate Holder)						
Our ASME Certificate of Authorization No. 1878 to use the NV						
symbol expires <u>September 30, 1983</u> • (Date)						
CERTIFICATION OF DESIGN						
Design information on file at Crosby Valve & Gage Company						
Stress analysis report (Class 1 only) on file at Crosby Valve & Gage Company						
43 Kendrick Street, Wrentham, Massachusetts 02093						
Design specifications certified by Boyd P. Brooks						
PE Ștate <u>California</u> Reg. No. 13655						
Stress report certified by W.D. Greenlaw						
PE State Massachusetts Reg. No. 14784						
Signature not required - list name only.						
CERTIFICATE OF SHOP INSPECTION						
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Massachusetts and employed by Factory Mutual Systems* of Norwood, Massachusetts have inspected the pump, or valve, described in this Data Report on 1/14, 19%/ and state that to the best of my knowledge and belief, the N Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code for Nuclear Power Plant Components.						
By signing this certificate, neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the equipment described in this Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.						
Date 1/14 19 81 .						
Signed Och MACTIAL Commissions NIASS 1266.  (Inspector) (Nat'l 3d State Prov. and No.)						

<sup>\*</sup>Arkwright-Boston Manufacturers Mutual Insurance Company - Mutual Boiler & Machinery Div.



## FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

Owner: Washington Public Power Supply System (WPPSS)
 Address: 3000 George Washington Way, Richland, WA

Date: 10/17/90 Sheet: 1 of 1 Unit: WNP-2

2. Plant: WPPSS Nuclear Power Plant (WNP)

- 3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA
  - (b) Repair Organization P.O. No., Job No., etc.: WPPSS
- 4. Identification of System: Main Steam (MS) System
- 5. (a) Applicable Construction Code ASME Section III Code Class 1, 1971 Edition with no Addenda, Code Case: None
  - (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
- 6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
MS-RV-1A	Crosby Valve and Gage Co	N63790-00-0048	N/A	N/A	1980	Replacement	Yes, Code Class 1

- 7. Description of Work: Replaced disc insert for main steam relief valve. The replacement work was performed as follows
  - 1) Removed existing disc insert from the valve
  - 2) Installed new replacement disc insert in the valve
  - 3) Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during pressure test

100	MASHINGTON	PUBLIC	POXER
S	SUPPLY	SYS	TEM

		12211012001
	FORM NIS-2 (Bac	k) .
8. Tests Conducted: Hydrostatic Pne Test Pressure: 6.7 Psig *Component Design Pre	,	Operating Pressure Other Frest Temperature: 86.5 °F Cemperature: 575 °F
9. Remarks: None	•	
> Pneumatic test on relief valve body to bonnet fl • Relief valve set pressure and rated temperature	anged joint, nozzle ring and a	djusting ring set screw joints
CER	RTIFICATE OF COMPI	IANCE
We certify that the statements made in the rules of the ASME Code, Section XI.  Type Code Symbol Stamp: Not applicable Certificate Authorization No.: Not applicable Expiration Date: Not Applicable  Prepared by	-	Al San
Date 10/18/90.	Date _	Plant Technical Manager
CERTIFIC	CATE OF INSERVICE I	NSPECTION
Inspectors and the State of Washington as Mutual System) of Norwood, Massachuse during the period 3/26/90 to 20 Owner has performed examinations and to accordance with the requirements of the 20 By signing this certificate neither the Inconcerning the examinations and corrections.	nd employed by Arkwrig etts have inspected the co /0//8/90 and state taken corrective measure ASME Code, Section XI inspector nor his employed we measures described in able in any manner for an il with this inspection.	emponents described in this Owner's Report to the best of my knowledge and belief, the s described in this Owner's Report in er makes any warranty, expressed or implied, this Owner's Report. Furthermore, neither my personal injury or property damage or a
Anthorage Simpling	Commissions	9556W National Board, State, and Endorsements
Anspector's Signature  Date 10/18/90		trational Boats, State, and Endoisements

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

Owner: Washington Public Power Supply System (WPPSS)
 Address: 3000 George Washington Way, Richland, WA

Date: 10/17/90 Sheet: 1 of 1

2. Plant: WPPSS Nuclear Power Plant (WNP)

Unit: WNP-2

- 3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA
  - (b) Repair Organization P.O. No., Job No., etc.: WPPSS
- 4. Identification of System: Main Steam (MS) System
- 5. (a) Applicable Construction Code ASME Section III Code Class 1, 1971 Edition with no Addenda, Code Case: None
  - (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
- 6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
MS-RV-2A	Crosby Valve and Gage Co	N63790-00-0054	N/A	N/A	1980	Replacement	Yes, Code Class 1

- 7. Description of Work: Replaced disc insert for main steam relief valve. The replacement work was performed as follows
  - 1) Removed existing disc insert from the valve
  - 2) Installed new replacement disc insert in the valve
  - 3) Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during pressure test

<b>√</b> ₹7	SHINCTON	PUBLIC	POXER
<b>1</b> 7-1 =			
	UPPLY	SYS	TEM

FORM NIS-2 (Back)						
3. Tests Conducted: Hydrostatic Pneumatic X Nominal Operating Pressure Other  Test Pressure: 6.7 Psig Test Temperature: 86.5 °F  *Component Design Pressure: 1185 Psig Temperature: 575 °F						
9. Remarks: None						
> Pneumatic test on relief valve body to bonnet flanged joint, nozzle ring and adjusting ring set screw joints  • Relief valve set pressure and rated temperature						
CERTIFICATE OF COMPLIANCE						
We certify that the statements made in this Owner's Report are correct and this replacement conforms to the rules of the ASME Code, Section XI.  Type Code Symbol Stamp: Not applicable Certificate Authorization No.: Not applicable Expiration Date: Not Applicable  Prepared by  Plant Technical Manager						
Date 10)18/90 Date 18 00.7 90						
CERTIFICATE OF INSERVICE INSPECTION						
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 4/4/90 to 10/18/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.  By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.						
Tempector's Signature Commissions 9556W National Board, State, and Endorsements						
Aut Sugards Commissions 9556W Inspector's Signature National Board, State, and Endorsements  Date 10/18/90						



# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

Owner: Washington Public Power Supply System (WPPSS)
 Address: 3000 George Washington Way, Richland, WA

Date: 10/17/90 Sheet: 1 of 1 Unit: WNP-2

2. Plant: WPPSS Nuclear Power Plant (WNP)

- 3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA
  - (b) Repair Organization P.O. No., Job No., etc.: WPPSS
- 4. Identification of System: Main Steam (MS) System
- 5. (a) Applicable Construction Code ASME Section III Code Class 1, 1971 Edition with no Addenda, Code Case: None
  - (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
- 6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
MS-RV-3B	Crosby Valve and Gage Co	N63790-00-0053	N/A	N/A	1980	Replacement	Yes, Code Class 1

- 7. Description of Work: Replaced disc insert and nozzle for main steam relief valve. The replacement work was performed as follows
  - 1) Removed existing disc insert and nozzle from the valve
  - 2) Installed new replacement disc insert and nozzle in the valve
  - 3) Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during pressure test

WASHINGTON	PUBLIC POR	ER
SUPPLY	SYSTE	$\overline{\mathbf{x}}$

	FORM NIS-2 (Back)
8.	Tests Conducted: Hydrostatic Pneumatic X Nominal Operating Pressure X Other  Test Pressure: 957/6.7 Psig Test Temperature: 535/80.9 °F  Component Design Pressure: 1250/1185 Psig Temperature: 575 °F
9.	Remarks: None  > Component design pressure 1250 PSIG, temperature 575 F for relief valve inlet piping and component design pressure 1185 PSIG, temperature 575 F for relief valve set pressure and rated temperature  > Nominal operating pressure test on relief valve inlet flanged joint (Code Class 1) - test pressure 957 PSIG, test temperature 535 F  > Pneumatic test on relief valve outlet flanged joint (Code Class 3), body to bonnet flanged joint (Code Class 1), nozzle ring and adjusting ring set screw joints (Code Class 1) - test pressure 6.7 PSIG, test temperature 80.9 F
	CERTIFICATE OF COMPLIANCE
	We certify that the statements made in this Owner's Report are correct and this replacement conforms to the rules of the ASME Code, Section XI.  Type Code Symbol Stamp: Not applicable  Certificate Authorization No.: Not applicable  Expiration Date: Not Applicable  Prepared by  Signed by
	Plant Technical Manager
	Date 10/18/10 Date 12 005 90
	CERTIFICATE OF INSERVICE INSPECTION  I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 4/4/90 to 10/18/90 and state to the best of my knowledge and belief, the
	Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.  By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
	Date 10/19/20
	Date <u>/0//8/90</u>



#### FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

1. Owner: Washington Public Power Supply System (WPPSS) Address: 3000 George Washington Way, Richland, WA

Date: 10/17/90 Sheet: 1 of 1

2. Plant: WPPSS Nuclear Power Plant (WNP)

Unit: WNP-2

Address: Hanford, Benton County, WA

3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA

(b) Repair Organization P.O. No., Job No., etc.: WPPSS

4. Identification of System: Main Steam (MS) System

5. (a) Applicable Construction Code ASME Section III Code Class 1, 1971 Edition with no Addenda, Code Case: None

(b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
MS-RV-3C	Crosby Valve and Gage Co	N63790-00-0051	N/A	N/A	1981	Replacement	Yes, Code Class 1

- 7. Description of Work: Replaced disc insert for main steam relief valve. The replacement work was performed as follows
  - 1) Removed existing disc insert from the valve
  - 2) Installed new replacement disc insert in the valve
  - 3) Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during pressure test

100	<b>XASHINGTON</b>	PUBLIC POWER
S	SUPPLY	SYSTEM

· · · · · · · · · · · · · · · · · · ·							
FORM NIS-2 (Back)							
7. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other  Test Pressure: 6.7 Psig Test Temperature: 80.2 °F  *Component Design Pressure: 1185 Psig Temperature: 575 °F							
9. Remarks: None							
> Pneumatic test on relief valve body to bonnet flanged joint, nozzle ring and adjusting ring set screw joints  * Relief valve set pressure and rated temperature							
CERTIFICATE OF COMPLIANCE							
We certify that the statements made in this Owner's Report are correct and this replacement conforms to the rules of the ASME Code, Section XI.  Type Code Symbol Stamp: Not applicable  Certificate Authorization No.: Not applicable  Expiration Date: Not Applicable  Prepared by  Signed by  Plant Technical Manager  Date  10) 18/90  Date  1805790							
CERTIFICATE OF INCEDIACE INCRECTION							
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 4/4/90 to 10/18/10 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.  By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.  Commissions  15660  National Board, State, and Endorsements							
Date 10/18/90							



# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

Owner: Washington Public Power Supply System (WPPSS)
 Address: 3000 George Washington Way, Richland, WA

Date: 10/17/90 Sheet: 1 of 1 Unit: WNP-2

 Plant: WPPSS Nuclear Power Plant (WNP) Address: Hanford, Benton County, WA

3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA

(b) Repair Organization P.O. No., Job No., etc.: WPPSS

4. Identification of System: Main Steam (MS) System

5. (a) Applicable Construction Code ASME Section III Code Class 1, 1971 Edition with no Addenda, Code Case: None

(b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
MS-RV-4B	Crosby Valve and Gage Co	N63790-00-0057	N/A	N/A	1980	Replacement	Yes, Code Class 1

- 7. Description of Work: Replaced disc insert and nozzle for main steam relief valve. The replacement work was performed as follows
  - 1) Removed existing disc insert and nozzle from the valve
  - 2) Installed new replacement disc insert and nozzle in the valve
  - 3) Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during pressure test



	FORM NIS-2 (Back)
8.	Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other  Test Pressure: 956/6.7 Psig Test Temperature: 535/80.3 °F  Component Design Pressure: 1250/1195 Psig Temperature: 575 °F
9.	Remarks: None  > Component design pressure 1250 PSIG, temperature 575 F for relief valve inlet piping and component design pressure 1195 PSIG, temperature 575 F for relief valve set pressure and rated temperature > Nominal operating pressure test on relief valve inlet flanged joint (Code Class 1) - test pressure 956 PSIG, test temperature 535 F > Pneumatic test on relief valve outlet flanged joint (Code Class 3), body to bonnet flanged joint (Code Class 1), nozzle ring and adjusting ring set screw joints (Code Class 1) - test pressure 6.7 PSIG, test temperature 80.3 F
	CERTIFICATE OF COMPLIANCE
	We certify that the statements made in this Owner's Report are correct and this replacement conforms to the rules of the ASME Code, Section XI.  Type Code Symbol Stamp: Not applicable  Certificate Authorization No.: Not applicable  Expiration Date: Not Applicable  Prepared by  Signed by  Plant Technical Manager  Date  12 007 90
	CERTIFICATE OF INSERVICE INSPECTION
	I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 4/4/90 to 10/18/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.  By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.  Commissions 9556 W
	Date 10/18/90 Commissions 9556 Wational Board, State, and Endorsements
	Date 10/18/90



# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

1. Owner: Washington Public Power Supply System (WPPSS)
Address: 3000 George Washington Way, Richland, WA

Date: 10/17/90 Sheet: 1 of 1 Unit: WNP-2

2. Plant: WPPSS Nuclear Power Plant (WNP)

- 3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA
  - (b) Repair Organization P.O. No., Job No., etc.: WPPSS
- 4. Identification of System: Main Steam (MS) System
- 5. (a) Applicable Construction Code ASME Section III Code Class 1, 1971 Edition with no Addenda, Code Case: None
  - (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
- 6. Identification of Components Repaired or Replaced and Replacement Components

l .	ne of ponent	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
MS-I	RV-5B	Crosby Valve and Gage Co	N63790-00-0061	N/A	N/A	1980	Replacement	Yes, Code Class 1

- 7. Description of Work: Replaced disc insert for main steam relief valve. The replacement work was performed as follows
  - 1) Removed existing disc insert from the valve
  - 2) Installed new replacement disc insert in the valve
  - 3) Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during pressure test

• • •	
The Read of the Control of the Contr	FORM NIS-2 (Back)
	drostatic Pneumatic X Nominal Operating Pressure Other  the Pressure: 6.75 Psig Test Temperature: 74 °F  component Design Pressure: 1205 Psig Temperature: 575 °F
9. Remarks: None	
	ief valve body to bonnet flanged joint, nozzle ring and adjusting ring set screw joints re and rated temperature
•	•
<del></del>	
	CERTIFICATE OF COMPLIANCE
rules of the ASME Of Type Code Symbol S Certificate Authorize Expiration Date: Not Prepared by	Stamp: Not applicable ation No.: Not applicable
Date	
	CERTIFICATE OF INSERVICE INSPECTION
Inspectors and the S Mutual System) of N during the period Owner has performe accordance with the By signing this ce concerning the exam the inspector nor his	ed examinations and taken corrective measures described in this Owner's Report in requirements of the ASME Code, Section XI.  retificate neither the Inspector nor his employer makes any warranty, expressed or implied, inations and corrective measures described in this Owner's Report. Furthermore, neither employer shall be liable in any manner for any personal injury or property damage or a ng from or connected with this inspection.
Insp	Commissions 9556 W Actor's Signature National Board, State, and Endorsements
Date /0//8/	90



### FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

1. Owner: Washington Public Power Supply System (WPPSS)

Date: 5/29/90

Address: 3000 George Washington Way, Richland, WA

Sheet: 1 of 1

2. Plant: WPPSS Nuclear Power Plant (WNP)

Unit: WNP-2

Address: Hanford, Benton County, WA

- 3.(a) Work Performed by: WPPSS 3000 George Washington Way, Richland, WA
  - (b) Repair Organization P.O. No., Job No., etc.: WPPSS
- 4. Identification of System: Standby Liquid Control (SLC) System
- 5. (a) Applicable Construction Code ASME Section III: 1971 Edition with Winter 1972 Addenda, Code Case: None
  - (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
- 6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
SLC-V-4B	Conax Corporation	N/A	90	N/A	1975	Replacement	Yes, Code Class 1

- 7. Description of Work: Replaced parts for SLC-V-4B. The replacement work was performed as follows
  - 1) Removed Trigger Body Assembly and Inlet Fitting from the valve
  - 2) Installed new replacement Trigger Body Assembly and Inlet Fitting in the valve
  - 3) Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during pressure test

FORM NIS-2 (Back)
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure  Test Pressure: Psig  Component Design Pressure: 1400 Psig  Pneumatic Nominal Operating Pressure  Test Temperature: oF  Temperature: 150 oF
9. Remarks: See attached N-@ Code Data Reports for new replacement Trigger Body Assembly Serial No 3361 and Inlet Fitting Serial No 3365
• 1220 Psig at 83.40 F pump side (inlet) flanged connection • 1300 Psig at 830 F RPV side (outlet) flanged connection
CERTIFICATE OF COMPLIANCE
We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.  Type Code Symbol Stamp: Not applicable Certificate Authorization No.: Not applicable Expiration Date: Not Applicable  Prepared by    Signed by   Signed by   Plant Technical Manager
CERTIFICATE OF INSERVICE INSPECTION.
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 3/22/90 to 5/26/40 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.  By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
Date 5/30/90 Commissions 9552 W National Board, State, and Endorsements
Date <u>5/30/40</u>

### FORM N-2 N OR NPT CERTIFICATE HOLDERS' DATA REPORT FOR IDENTICAL

### NUCLEAR PARTS AND APPURTENANCES\*

As Required by the Provisions of the ASME Code, Section III, Division 1 Not To Exceed One Day's Production

PLAN NO. 2-057,0

M D stured and certified by	COMAN DOLLARO COM	7 01.000 TO TO TO TO THE TOTAL TO THE	
Asnufactured forWADII.	INGION PUBLIC PUMER	SUPPLY, RICHLAND, WA 9935	<del></del>
	SHINGTON NUCLEAR POW	(name and address of purchaser) ER-2, RICHLAND, WA 99352	
ocation of installation		(name and address)	
ype N38017	SA479 304SST	75KSI N/A	. 90
(drawing no )	(net'l spec. no.)	Asserte errocetti MEM	(year built)
ASME Code, Section III:		S77 1	<u>N/A</u>
	** : * = *	(addende) (class)	(Code Case no.)
abricated in accordance wit	h Const. Spec. (Div. 2 only)	N/A Revision N/A	Date
		(ucr)	
emarks:	THE LOW EVLENOTAE YOU	TUATED VALVE REPLACEMENT KI	ו בטג אואונס אים די
ודחוודה כחאי	TROL SYSTEM		
TIOUID CON	TVAN ATATM		
•	•	•	•
iom, thickness (in.) .040	_ Min. design thickness (in.)	.031 Dia, ID (ft. & in.) N/A Les	noth overall (ft. & in.) N/A
		_031 Dia. ID (ft. & in.) N/A Leached for each item of this report:	ngth overall (ft. & in.) N/A
When applicable, Certificate	Holders' data reports are atta	ched for each item of this report:	
Vhen applicable, Certificate  Part or Appurtenance	Holders' data reports are atta	ched for each item of this report:	National
Vhen applicable, Certificate	Holders' data reports are attained.  National Board No.	ched for each item of this report:	National Board Number
Part or Appurtenance Serial Number	Holders' data reports are atta	ched for each item of this report:	National
Part or Appurtenance Serial Number	Holders' data reports are attained.  National Board No.	Part or Appurtenance Serial Number	National Board Number
Part or Appurtenance Serial Number  3362	Holders' data reports are attained.  National Board No. In Numerical Order	ched for each item of this report:	National Board Number
Part or Appurtenance Serial Number  3362 3363 3364	National Board No. in Numerical Order  3362 3363 3364	Part or Appurtenance Serial Number	National Board Number
Part or Appurtenance Serial Number  3362 3363 3364	National Board No. in Numerical Order  3362 3363	Part or Appurtenance Serial Number  (26) (27) (28) (29)	National Board Number
Part or Appurtenance Serial Number  3362 3363 3364 3365	National Board No. in Numerical Order  3362 3363 3364	Part or Appurtenance Serial Number  (26) (27) (28) (29)	National Board Number
Part or Appurtenance Serial Number  3362 3363 3364 3365	National Board No. in Numerical Order  3362 3363 3364	Part or Appurtenance Serial Number  (26) (27) (28) (29) (30)	National Board Number
Part or Appurtenance Serial Number  3362  3363  3364  3365	National Board No. in Numerical Order  3362 3363 3364	Part or Appurtenance Serial Number  (26) (27) (28) (29) (30) (31) (32)	National Board Number In Numerical Order
Part or Appurtenance Serial Number  3362  3363  3364  3365  3365	National Board No. in Numerical Order  3362 3363 3364	Part or Appurtenance Serial Number  (26) (27) (28) (29) (30) (31) (32) (33)	National Board Number In Numerical Order
Part or Appurtenance Serial Number  3362  2) 3363  3364  3365  6) 60	National Board No. in Numerical Order  3362 3363 3364	Part or Appurtenance Serial Number  (26) (27) (28) (29) (30) (31) (32) (33) (34)	National Board Number In Numerical Order
Part or Appurtenance Serial Number	National Board No. In Numerical Order  3362 3363 3364 3365	Part or Appurtenance Serial Number  (26) (27) (28) (29) (30) (31) (32) (33)	National Board Number In Numerical Order

1			
<b>9</b> 10.	Design pressure 1500 psi	Temp. 150 °F.	Hydro, test pressure *See #7 at temp. °F.

(38).

(40)

(41)

(42)

(43)

(44)

(45)(46)

(48)(49)(50)

1385-1

2.45

LEYEL

(13).

(14)

(15).

(16)

(17).

(18)

(19)

(20)

(21) (22)

FORM N-2 (back)
CERTIFICATE OF DESIGN
osign specifications certified by George Ivo Skoda · P. E. state CA Reg. no. 15647
esign report" certified by Francis J. Domino P. E. state NY Reg. no. 36832
CERTIFICATE OF SHOP COMPLIANCE
escentify that the statements made in this report are correct and that this (these Trigger Body Sub-Assembly and the rules of construction of the ASME Code, Section III.
SME Certificate of Authorization no. N=1850 Expires September 2, 1992
ATE 4-20-90 Name Conex Buffalo Corporation Signed James SimoSomewater QA Mgr.
CERTIFICATE OF SHOP INSPECTION
the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the state or pro-
St of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code.
ection III. Each part listed has been authorized for stamping on the date shown above.  It is igning this cartificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the equipment; scribed in this data report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury on
oparty damage or loss of any kind arising from or connected with this inspection.
118 4-20-90 Signed - To beet State of prov. and not (Nat'l Bd (Incl endorsements) state or prov. and not
(swould be inlet titus)
Endip Engis 5/1/90.
5)1/90.

### FORM N-2 N OR NPT CERTIFICATE HOLDERS' DATA REPORT FOR IDENTICAL

### NUCLEAR PARTS AND APPURTENANCES\*

As Required by the Provisions of the ASME Code, Section III, Division 1 Not To Exceed One Day's Production

PL'AN	NO.2	1 5 14 / 19
Pa_	1_01_	1 5/27/9

				4444 AME	MIT Charletona MV
ctured and cartifled by	CONAX BUFFALO CO	RPOR	ATION	, 2300 WALDEN AVE	NUE, Cheektowaga, NY
Manufactured for WASH	INGTON PUBLIC POWER	SUP	PLY,	RICHLAND, WA 993	52 ·
				Militare of our chases	_
ocation of installation WA	SHINGTON NUCLEAR PO	WER-	2, RI	CHLAND, WA 99352	• • •
N-20000	SA479 304SST	75	KSI (	N/A	- 90
ype N-20000	(nat1. spec. no.)		nsule atren		
SME Code, Section III:	·.77 ··	<u>. s</u>	77_	<u> </u>	N/A
	(edition)	(adde	-	(ciess)	(Code Case no.)
abricated in accordance with	r Const. Spec. (Div. 2 only).	N	/A	RevisionN/A	Date
lemarks: Industrial Part	ensign services FOR	EXPL	OSIVE	ACTUATED VALVE RI	EPLACEMENT KIT FOR
STANDBY LIQ	UID CONTROL SYSTEM.	PR	ESSUR	E TESTED AT 2800 I	PSI FOR 10 MINUTES;
DADA NO 01:	2i(b) IS APPLICABLE	· ma	DAM		
FARA. ND-21.	ZI(D) IS APPLICABLE	. 10	RAM		
1 akidu 11- 145aa 41	70 Ain	• • •		15 // 4 !- 1	
iom, tnickness (in.) <u>2200 m</u>	/Min. design thickness (in.)	) <del></del>	Dia	i. ID (ft. & in.)	ength overall (ft. & in.)
Vhen applicable, Certificate I	noiders data reports are at	tacnet	a lor ead	in item of this report:	
				4	
Part or Appurtenance	National		F	art or Appurtenance	National
Serial Number	Board No.			Serial Number	Board Number
	in Numerical Order	ł	ļ		In Numerical Order
3358	3358	ł	(26)		
2) 3359	3359	—			
3) 3360	3360		(28)		•
3361	3361				
5)	<u> </u>	_			<u> </u>
3)			(31)_		
5) 7)			(31) <u> </u>		
5) 7) 3)			(31) (32) (33)		·
5) 7) 3) 9)			(31) (32) (33) (34)		
5) 7) 3) 9) 10)			(31) (32) (33) (34) (35)		
5) 7) 3) 9)			(31) (32) (33) (34) (35) (36)		
5)			(31) (32) (33) (34) (35) (36) (37)		
5) 77) 3) 9) 10) 11) 12) 13)			(31) (32) (33) (34) (35) (36) (37) (38) (39)		
5)	Yes	RIFTED	(31) (32) (33) (34) (35) (36) (37) (38) (39)		
5)			(31) (32) (33) (34) (35) (36) (37) (38) (39) (40) (41)	75905	
5)	Vci		(31) (32) (33) (34) (35) (36) (37) (38) (39) (40) (41) (42)	- C3	
5) 77) 33) 59) 10) 11) 12) 13) 14) 15) 16) 17)			(31) (32) (33) (34) (35) (36) (37) (38) (39) (47) (42) (42) (43)	729	
5) 77) 33) 50) 50) 51) 52) 53) 64) 55) 66) 67) 68)	150		(31) (32) (33) (34) (35) (36) (37) (38) (39) (40) (41) (42) (43) (44)	(£9	
5)	150		(31) (32) (33) (34) (35) (36) (37) (38) (39) (40) (41) (42) (43) (44) (45)	729	
5)	150		(31)	(25)	
55)			(31)	759	
5)			(31)	759	

150\_

psi Temp...

.°F. Hydro. test pressure \*See #7

at temp. °F.

10. Design pressure 1500

<sup>\*</sup>Supplemental information in form of lists, sketchesor drawings may be used provided (1) size is 81/2 × 11, [2] information in items 2 and 3 on this data report is included on each sheet, [3] each sheet is numbered and number of sheets is recorded at top of this form, and [4] each additional sheet shall be signed by the Certificate Molder and the ANI. (6/B3) This form (£00040) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FUHM N.Z (Dack) CERTIFICATE OF DESIGN George Ivo Skoda esign specifications cartifled by\_\_\_ Francis J. Domino Design report\* certified by\_ CERTIFICATE OF SHOP COMPLIANCE We certify that the statements made in this report are correct and that this (these) FF1gger\_Body. Sub-Assembly conform to the rules of construction of the ASME Code, Section III. ASME Certificate of Authorization no. N-1850 Date <u> V - 20 - 90</u> Name <u>Conax Buffalo Corporation</u> (NPT Certificate Holder) CERTIFICATE OF SHOP INSPECTION The undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the state or pronce of New York and employed by Hartford Steam Boiler Inspection and Insurance Co. of Hammford. Conn. have inspected these items described in this data report on \_\_\_\_\_\_ and state that to the est of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, section III. Each part listed has been authorized for stamping on the date shown above. By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the equipment

tescribed in this data report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or

Commissions.

property damage or loss of any kind arising from or connected with this inspection.



## FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

Owner: Washington Public Power Supply System (WPPSS)
 Address: 3000 George Washington Way, Richland, WA

Date: 9/13/90 Sheet: 1 of 1 Unit: WNP-2

2. Plant: WPPSS Nuclear Power Plant (WNP)

Address: Hanford, Benton County, WA

- 3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA
  - (b) Repair Organization P.O. No., Job No., etc.: WPPSS
- 4. Identification of System: Fuel Pool Cooling (FPC) System
- 5. (a) Applicable Construction Code ASME Section III: 1971 Edition with Winter 1973 Addenda, Code Case: None
  - (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
- 6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
FPC(1)-1	WPPSS	FPC(1)-1-P1	N/A	N/A	1983	Replacement	Yes, Code Class 3

- 7. Description of Work: Installed pipe nipple and pipe cap on vent connection valve FPC-V-603. The replacement and replacement work was performed as follows
  - 1) Installed pipe nipple and made required socket weld
  - 2) Installed threaded pipe cap

ASHINCTON	PUBLIC	POXER
UPPLY	SYS	TEM
		ASHINCTON PUBLIC UPPLY SYS

,	FORM NIS-2 (Ba	ck)
8. Tests Conducted: Hydrostatic  Test Pressure: Psig  Component Design	tanii i	ol Operating Pressure Other X None Test Temperature: OF Temperature: OF
9. Remarks: None		
	4,	
	CERTIFICATE OF COM	PLIANCE
ASME Code, Section XI.  Type Code Symbol Stamp: Not applical Certificate Authorization No.: Not applicate Expiration Date: Not Applicable  Prepared by	ble	d this replacement conforms to the rules of the
Date 9/13/90	Date	9-13-90
CER	TIFICATE OF INSERVICE	INSPECTION
Inspectors and the State of Washingt Mutual System) of Norwood, Massac during the period 3/26/90 to Owner has performed examinations accordance with the requirements of By signing this certificate neither concerning the examinations and cor	ton and employed by Arkwrichusetts have inspected the constant taken corrective measured the ASME Code, Section to the Inspector nor his employective measures described be liable in any manner for ected with this inspection.	yer makes any warranty, expressed or implied, in this Owner's Report. Furthermore, neither any personal injury or property damage or a
Jan Hoggard Inspector's Signature	Commissions	9556 W National Board, State, and Endorsements
Date 9/13/90		stational society data datacasticing

## FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

1. Owner: Washington Public Power Supply System (WPPSS)
Address: 3000 George Washington Way, Richland, WA

Date: 8/20/90 Sheet: 1 of 1 Unit: WNP-2

2. Plant: WPPSS Nuclear Power Plant (WNP)

Address: Hanford, Benton County, WA

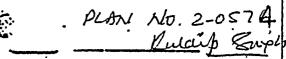
- 3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA
  - (b) Repair Organization P.O. No., Job No., etc.: WPPSS
- 4. Identification of System: Reactor Recirculation Cooling (RRC) System
- 5. (a) Applicable Construction Code ASME Section III: 1971 Edition with no Addenda, Code Case: None
  - (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
- 6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
RRC-P-1A	Bingham Willamette	B-2-1034	NB-134	N/A	1974	Replacement	Yes, Code Class 1

7. Description of Work: Replaced mechanical seal in pump RRC-P-1A. Removed existing mechanical seal out of the pump and installed reconditioned (refurbished) mechanical seal. Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during pressure test

FORM NIS-2 (Back)
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure X Other  Test Pressure: 955 Psig Test Temperature: 532 °F  Component Design Pressure: 1650 Psig Temperature: 575 °F
9. Remarks: See attached N-2 Code Data Report for the replacement mechanical seal Serial No 11N92-3
CERTIFICATE OF COMPLIANCE
We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.  Type Code Symbol Stamp: Not applicable Certificate Authorization No.: Not applicable Expiration Date: Not Applicable  Prepared by    Signed by   Signed by   Plant Technical Manager   Poste   8/20/90   Date   8-4-90
Date Date
CERTIFICATE OF INSERVICE INSPECTION
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period $\frac{4/9/90}{4/90}$ to $\frac{8/22/90}{4/90}$ and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.  By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
Commissions 9556 W //Inspector's Signature National Board, State, and Endorsements
Date 8/22/96





FORM N-2 MANUFACTURERS DATA REPORT FOR NUCLEAR PART AND APPURTENANCES.

As required by the Provisions of the ASIE Code Rules
(a) Meaniserpared by Bingham-Willamette Company, Portland, OR
(b) Manufactured for Mashington Public Power Sunnly System, Richland, WA
(Name and eddress of Name(esture) of completed earliers continued
Identification Hamiltonian Serial No. of Pare 11892 + 3 7 Mart 34 No. 1080
(a) Constructed According to Drawing No. 11756 Drawing Property by Singham-Ufliamente Company
(b) Description of Part Inspected Mechanical Seal Type RV875B-2
(c) Applicable ASHE Coder Socilor III, Ellison 1971, Adderda due 1971 Case No. HOHE Clase 1
Remarker To prevent liquids from ascaping from numn (OR) name consist of:
a.) Seal Holder SN 149285. b.) Gland-Upper Seal SN 1495283. c.) Thrust 91ng SN 1513982-1
Seal Hydrotested at 2575 PST.
Note: Items 4 - 18 not applicable.
We certify that the statements made in this report are correct and this vessel part or appurtenence as defined in the Code cess- the to the rules of construction of the ADEC Code Section III. The applicable Design Socilication and Stream Report are not the responsibility of the part Manufacturer, As sopurtenence unfacturer is responsible for furnishing a separate Design Specification and Stream Report if the appurtenence is not included the component Design Specification and Stream Report if the appurtenence is not included the component Design Specification and Stream Report.)
DEC 3 1993 19 Steed STREET STREET STREET
crificate of Authorization Expires February 28, 1986 Corrificate of Authorization No. No. 1655
CERTIFICATION OF DESIGN FOR APPURTENANCE (wies applicable)
Design informacion on the se H/A
Screen acalysis report on file se H/A -7
Design specifications contified by RIA Prof. Eng. State Reg. No.
Stress enalysis report certified by 11/A Prof. Esq. State Reg. No
CERTIFICATE OF SHOP INSPECTION
I, the undersigned, helding a valid commission issued by the Marioust Board of Soiler and Pressure Vessel Inspectors, and/or the State or Prevince of Oregon and employed by Gangartmant
of Commerce bare inspected the past of a pressure vessel described in this
Manufacturer's Partial Data Report on 19-1 X 19-1 19 and stare that to the best of my knowledge and belief, the Manufacturer has constructed this part in occasioner with the ASME Code Section III.  Op signing this certificate, seither the inspector not his employer makes any warmany, expressed or insided, concernating the nace described in this Manufacturer's Partial Data Report. Furthermore, seither the Inspector oor his employer shall be liable in any manner for any personal injury or property damage or a lase of any kind acising from or connected with this inspection.
Dem: DEC 8 1983
Manual Heavier Commissions Life See Constant Manual Person and No.

\*Supplemented through in form of listing theisten or country, may be most provided ([1] size in 197° a 137°, (2) information in Home In2 on this data result is included the outh threat, and (2) country and market of country in the listing of the country in the country of the country in the country of the country in the country of the country in the country of the country in the country of the country in the country of the country in the country of the country in the country of the country in the country of the country in the country of the

1

### FOIUS N-2 (back)

٠,							raical .	<ul> <li>Contr</li> </ul>	36100		_		••	•
								- Corn						l
Se	tati	Long			H.T	٠		X.T	<del></del>	Efficien	φ		. %	•
		61 -L	•`				m	R.T						
		COLUMN TO A STATE OF THE STATE		,	malita k	4	Ŧ	X+ X+	(5) 1/222		-serres .	77.6	<del></del> -	
n•			_					Elliptic of						
	(Iob.	Lecali-	in onds)	Talebe	180	Racino	Rodino	Zate	April Angl	e Za	tive .	71M Diseaser	"lide to "(Coore a	. Cone
								<del></del>						
If	16861	rable,	balta u	*4				Are, Numbers	Other fa	eceaiag_				•
•				Q	deteri.		10-y Ty3-y 31.	se, X <del>umoer)</del>	•		(200	45124 00 1114	1 <b>2</b> (24(42)	•
Ţ	eket i	Casu	E	****	44.	44, 24, 1	44.11 > 11.	re dimensione	if boiled, de	-	14A)			
			•	Ť					,	•	CHOP TO	e she		
7			8	1,550	1			u 575		••	Clerk	Impact		(14
	anga.	7144	**		•		P** ·	··				• ********		
_				leted for				•		• ,				
T	.b. 51	- heerse	Station	.ev. Mater	rial		`n	ia	T	hickness	in. As	rachment		
•				,,	(1	ina a Sp	es Has	(Subject to	barena)		,	(	Weises, Je	uu Q
_	. •		Fleatia	e. Harm	ial _			la,		licksess_	للا معني	nachment		
7	sbe st	Mare	rial	•		0.0		la Sickhess	inen	ice. Num	×11	Type	٠	
-				•									(3w. e	
S	heils	Hateri	al	, yer,	S	N. N. N. S.	eminal Sickness. Position	ckated vers	usion	a. Cia.	_!	le. Lesgth.		
S	heils	Kareri Long	al	, Xei	S (Miss of Ho?	Range 1	omiaal Sickaesa. Poolitod	Carr is. Allo 3.7	osion WIACE	a. Cin	_!\	le. Length.	_×.	
. s	heilt	Hasesi Lang Gira	al	poe, Ne.)	S (Min. : H.: H.:	HRange 1	eminal Sickness. Poulled	Carr Lise Allo	osion wate	a. Cis Elflele	_{t	la, Length.	_x.	
S	heilt	Hasesi Lang Gira	al	poe, Ne.)	S (Min. : H.: H.:	Nango i	eminal Sickness. poutted	Cser Allo	(b) Mare	a. Cis Elflele	_{t	la, Length.	_x.	
S.	heilt •••cases	Long Gird (a) W	isl	Thinks	S	Nange 1	eminal Sickness. position T.So  Essentia	Carrier Alle	osion wades	a. Cis Elflele	_ {t}	la, Length.	_\$. 	Proc
- Si - Si - Si	heilt	Long Girth (a) W. Long P. Soci	al (Xiad b f (Xiad b f (Xiad b f (Xiad b)	Think	S. (Min.) — H.:	Crown Rading	ominal Sickness. Socialed	Corries Allo	osion waaes	a. Cis	Courses .	T.S. Fint		Proc
- Si - Si - Si	heilt	Long Girth (a) W. Long P. Soci	al (Xiad b f (Xiad b f (Xiad b f (Xiad b)	Think	S. (Min.) — H.:	Crown Rading	ominal Sickness. Socialed	Corries Allo	osion waaes	a. Cis	Courses .	T.S. Fint		Proc
- Si - Si - Si	heilt	Long Girth (a) W. Long P. Soci	al (Xiad b f (Xiad b f (Xiad b f (Xiad b)	Think	S. (Min.) — H.:	Crown Rading	ominal Sickness. Socialed	Carrier Alle	osion waaes	a. Cis	Courses	T.S. Fint	Has to	Proc
	heilt	Long Girth (a) W. Long P. Soci	al (Xiad b f (Xiad b f (Xiad b f (Xiad b)	Think	S. (Min.) — H.:	Crown Rading	eminal Sickness Sickness Sickness Section T.So Kaushia Redina	Corries Allo	Cantal April Ace	a. Cis	Courses	T.S. Flat Stander	Side to (Coope )	p Processor Good
S1 - S2 - C1 - C1 - C1 - C1 - C1 - C1 - C1 - C	heilt commi leads' leads' freeza	Long Gird (a) W Long Long p, bern mand ivable,	aterial	These	S	Ni Range 3	eminal Sickness Sickness Section ToSo Kaushia Redino	Corr.  is. Allo  R.T.  Z.T.  Zuliptical  Zatio  (c)	asion wades	Elliele  Yes of rial  You  You  Other fac	Courses called	T.S.  Fint Blancter  (Doserve er Feight r Impect	Side to (Course of Course)	p Processor Good
S:	heilt commi leads' leads' freeza	Long Gird (a) W Long Long p, bern mand ivable,	aterial	Think	S	Ni Range 3	eminal Sickness Sickness Section ToSo Kaushia Redino	Corries Allo	asion wades	Elliele  Yes of rial  You  You  Other fac	Courses called	T.S. Flat Stander	Side to (Course of Course)	Proc w Goo
S1 - S	heilt 	Long Girth (a) M Lone Lone p, bern sand ivable,	al_Cried to F	Thinse	SHoi	NiRange 3	eminal Sickness Sickness Section ToSo Kaushia Redino	Correction Allo	asion wades	Elliele  Yes of rial  You  You  Other fac	Courses called	T.S.  Fint Blancter  (Doserve er Feight r Impect	Side to (Course of Course)	Proc w Goo
S: -S: -S: -S: -S: -S: -S: -S: -S: -S: -	designation of the second seco	Long Gird (a) W. Lone P. born Innel	si	Thinks	S	Crown Reside	eminal Sickness Sickness Sickness Section T.So Kauskia Redina Sickness Testina Testina Testina	Corries Allo Record Rette	Cantal April And	a. Bla	Courses called	T.S.  Fint Blancter  (Doserve er Feight r Impect	Side to (Course of Course)	Proc w Goo
Si Si Si Si Si Si Si Si Si Si Si Si Si S	heilt osanat lends heigh f rema belev belev	Long Gird (a) M Loose Lo	al Clind to F	Thinks and (a)	S	Crown Reside	eminal Sickness Sickness Sickness Section T.So Kauskia Redina Sickness Testina Testina Testina	Correction Allo	Cantal April And	a. Bla	Courses called	T.S.  Fint Blancter  (Doserve er Feight r Impect	Side to (Course of Course)	p Processor Good
Si	eensti (reds) Top (recas) Top (recas) (recas)	Long Gird (a) W Loose Loose Loose Loose Loose Loose Loose Valve Valve Valve	aterial  too  ont, and , belto u	Thinks	S	Crown Reside	eminal Sickness Sickness Sickness Section T.So Kauskia Redina Sickness Testina Testina Testina	Corries Allo Record Rette	Cantal April And	a. Bla	Courses	T.Si	Side to (Course of Course)	p Processor Good
Si	deada'  (cada'   Long Gird (a) M Loose Lo	al Chief & F	Thinks and (a)	S Hoi Hoi Hoi Hoi Hoi Hoi Hoi Hoi Hoi Hoi	Crown Reside	ominal Sickness Sickness Sickness Sickness Kaushia Redine Sickness Sickness Size Size	Corries Allo Record Record Entirected Entire (c)	Cantal April And	a. Bla	Courses	T.S.  Fint Blancter  (Doserve er Feight r Impect	Side to (Course of Course)	p Processor Good	
Si	deada'  (cada'   Long Giral Cal M. Locate p., bertalasal cashe, r. Locate pressure to be valve est	al Chief & F	Thinks and (a)	S Hoi Hoi Hoi Hoi Hoi Hoi Hoi Hoi Hoi Hoi	Crema Radios	ominal Sickness Sickness Sickness Southed T-Se Kaushia Redine Sickness Sickness Size Size	Corries Allo Record Record Entirected Entire (c)	Cantal	a. Bis	Courses	T.S.  Plan Blancter  (Decembe or feight	Side to (Course of Course)	p Processor Good	
S	deada'  (cada'   Long Giral Cal M. Locate p., bertalasal cashe, r. Locate pressure to be valve est	al Chief & F	Thinks and (a)	S Hoi Hoi Hoi Hoi Hoi Hoi Hoi Hoi Hoi Hoi	Crema Radios	ominal Sickness Sickness Sickness Southed T-Se Kaushia Redine Sickness Sickness Size Size	Corries Allo Record Record Entirected Entire (c)	Cantal	a. Bis	Courses	T.S.  Plan Blancter  (Decembe or feight	Side to (Course of Course)	p Processor Good	
. Si	deada'  (cada'   Long Giral Cal M. Locate p., bertalasal cashe, r. Locate pressure to be valve est	al Chief & F	Thinks and (a)	S Hoi Hoi Hoi Hoi Hoi Hoi Hoi Hoi Hoi Hoi	Crema Radios	ominal Sickness Sickness Sickness Southed T-Se Kaushia Redine Sickness Sickness Size Size	Corries Allo Record Record Entirected Entire (c)	Cantal	a. Bis	Courses	T.S.  Plan Blancter  (Decembe or feight	Side to (Course of Course)	p Processor Good	
Si (3)	cental cental cental cental cental cental cental cental cental cental cental cental cental cental	Long Gira  Gira  Ca) W  Locat  Locat  Locat  Locat  Locat  Locat  Locat  Valva  Valva  Valva  Cat  Cat  Cat  Cat  Cat  Cat  Cat  C	al Chief & F	Thinks and (a)	S	Crown Radios	eminal Sickness Sickness Sickness Southed T-Se Kaushia Redine Sickness Sick	Corries Allo Record Record Entirected Entire (c)	Cantal Apox Ang	a. Bis	Courses	T.S.  Plan Blancter  (Decembe or feight	Side to (Course of Course)	p Processor Good
Si	heilt  centat  leads  leads  leads  leads  leads  leads  leads  leads  leads	Long Gird Locate	al Chied to F	Thinks and (a)	So (Miles of Miles of	Crown Radios	eminal Sickness Sickness Sickness Sickness  ToSo Kaushia Redino  ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	Corries Allo Record Rec	Cantion  Control  Con	a. Bis	Courses	T.S.  Plan Blancter  (Decembe or feight	Side to (Course of Course)	p Processor Good
Si Si Si Si Si Si Si Si Si Si Si Si Si S	design to the control of the control	Long Gird (a) M Loose p, berr Least p, berr Least p to be Valve ges co (take p, Drain ges aggr rries aggr	aterial  aterial  too ont, end , belto u  remole Conclete  Handre	Thinse sed (a)	So (Miles of Miles of	Crown Radio	eminal Sickness Sickness Sickness Footbod  T.So  Kanania Radino  Jel  To applica  Size  Size  Size  Size	Corries Allo Record Rec	Cantion  Control  Con	a. Bis	Courses	T.S.  Plan Blancter  (Decembe or feight	Side to (Course of Course)	p Processor Good
Si Si Si Si Si Si Si Si Si Si Si Si Si S	design to the control of the control	Long Gird (a) M Loose p, berr Leasel p, berr Leasel p to be Valve ges co (false p, Drain ges aggr rries	aterial  aterial  too ont, end , belto u  remole Conclete  Handre	Thinks and (a)	So (Miles of Miles of	Crown Radios	eminal Sickness Sickness Sickness Footbod  T.So  Kanania Radino  Jel  To applica  Size  Size  Size  Size	Corries Allo Record Rec	Canton  Control  Cont	a. Bis	Courses	T.Si	Side to (Course of Course)	Process

S.O. FFIN92739
ITEM FHZ-Code Date Reart
PAGE 3

## FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

Owner: Washington Public Power Supply System (WPPSS)
 Address: 3000 George Washington Way, Richland, WA

Date: 7/13/90 Sheet: 1 of 1 Unit: WNP-2

2. Plant: WPPSS Nuclear Power Plant (WNP)

Address: Hanford, Benton County, WA

- 3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA
  - (b) Repair Organization P.O. No., Job No., etc.: WPPSS
- 4. Identification of System: Residual Heat Removal (RHR) System
- 5. (a) Applicable Construction Code ASME Section III: 1971 Edition with Winter 1972 Addenda, Code Case: None
  - (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
- 6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
RHR-V-24A	Anchor Darling	2N-407	N/A	N/A	1975	Replacement	Yes, Code Class 2

- 7. Description of Work: Replaced body to bonnet nuts for valve RHR-V-24A. The replacement work was performed as follows:
  - 1) Drilled holes in the replacement nuts
  - 2) Removed existing nuts and replaced them with new nuts with holes.
  - > Note: Holes were drilled in the nuts to provide a method of captivating the valve body to bonnet nuts

WASHINGTON	PUBLIC POWER
SUPPLY	SYSTEM

FORM NIS-2 (Back)
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other X None Test Pressure: Psig Test Temperature: OF Component Design Pressure: Psig Temperature: OF
9. Remarks: None
CERTIFICATE OF COMPLIANCE
We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.  Type Code Symbol Stamp: Not applicable Certificate Authorization No.: Not applicable Expiration Date: Not Applicable  Prepared by  Signed by  Plant Technical Manager
Date 7/13/90 Date 7-13-90
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 3/30/90 to 7//3/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.  By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
Date 1/18/90 Commissions 9552 W National Board, State, and Endorsements



### FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

1. Owner: Washington Public Power Supply System (WPPSS) Address: 3000 George Washington Way, Richland, WA

Date: 5/26/90 Sheet: 1 of 1

2. Plant: WPPSS Nuclear Power Plant (WNP)

Unit: WNP-2

Address: Hanford, Benton County, WA

- 3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA
  - (b) Repair Organization P.O. No., Job No., etc.: WPPSS
- 4. Identification of System: Residual Heat Removal (RHR) System
- 5. (a) Applicable Construction Code ASME Section III: 1971 Edition with Winter 1972 Addenda, Code Case: None
  - (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
- 6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
RHR-V-24B	Anchor Darling	2N-381	N/A	N/A	1975	Replacement	Yes, Code Class 2

- 7. Description of Work: Replaced body to bonnet nuts for valve RHR-V-24B. The replacement work was performed as follows:
  - 1) Drilled holes in the replacement nuts
  - 2) Removed existing nuts and replaced them with new nuts with holes.
  - > Note: Holes were drilled in the nuts to provide a method of captivating the valve body to bonnet nuts

	•
FORM NIS-2 (Back)	
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure  Test Pressure: Psig Test Temperature: OF  Component Design Pressure: Psig Temperature: OF	Other X None
9. Remarks: None	
CERTIFICATE OF COMPLIANCE	
We certify that the statements made in the report are correct and this replacement confor ASME Code, Section XI.  Type Code Symbol Stamp: Not applicable  Certificate Authorization No.: Not applicable  Expiration Date: Not Applicable	ms to the rules of the
Prepared by Quicip Sup Signed by Plant Technical	Manager
Date <u>\$\\$20</u> /90 Date <u>\$5-30-50</u>	
•	
CERTIFICATE OF INSERVICE INSPECTION	
I, the undersigned, holding a valid commission issued by the National Board of Boi Inspectors and the State of Washington and employed by Arkwright Mutual Insurance (Mutual System) of Norwood, Massachusetts have inspected the components described it during the period 3/30/90 to 5/31/90 and state to the best of my known of the period accordance with the requirements of the ASME Code, Section XI.  By signing this certificate neither the Inspector nor his employer makes any warranty concerning the examinations and corrective measures described in this Owner's Report the inspector nor his employer shall be liable in any manner for any personal injury or ploss of any kind arising from or connected with this inspection.	Company (Factory in the Owner's Report owledge and belief, the vner's Report in y, expressed or implied, Furthermore, neither
Auxogath Commissions 9556W	
Thu Ho Garts Commissions 4556W Inspector's Signature National Board,  Date 5/31/90	, State, and Endorsements

Date: 6/12/90

Sheet: 1 of 1

Unit: WNP-2

## FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

Owner: Washington Public Power Supply System (WPPSS)
 Address: 3000 George Washington Way, Richland, WA

2. Plant: WPPSS Nuclear Power Plant (WNP)
Address: Hanford, Benton County, WA

3.(a) Work Performed by: Bechtel Construction, Incorporation

(b) Repair Organization P.O. No., Job No., etc.: PO Box 600, Richland, WA

4. Identification of System: Containment Instrument Air (CIA) System

5. (a) Applicable Construction Code ASME Section III: 1971 Edition with Winter 1973 Addenda, Code Case: None

(b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
CIA(3)-2	WPPSS	CIA(3)-2-P1	N/A	N/A	1983	Replacement	Yes, Code Class 2

- 7. Description of Work: Replaced valve CIA-V-21. The replacement work was performed as follows
  - 1) Cut and removed section of existing piping material
  - 2) Installed new replacement piping material and valve
  - 3) Made required socket welds
  - 4) Performed PT examination on the final socket welds. PT examination results acceptable

	FORM NIS-2 (Back)
8.	Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other X None Test Pressure: Psig Test Temperature: °F Component Design Pressure: Psig Temperature: °F
9.	Remarks: See attached NPV-1 Code Data Report for new replacement valve CIA-V-21, Serial No ATZ2-11
:   	
	CERTIFICATE OF COMPLIANCE
	We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.  Type Code Symbol Stamp: Not applicable  Certificate Authorization No.: Not applicable  Expiration Date: Not Applicable
	Prepared by Living Ewis Signed by Plant Technical Manager
	Date 6/12/90. Date 6-12-90
	CERTIFICATE OF INSERVICE INSPECTION
	I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 4/26/90 to 6/2/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.  By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
	Am Hogaris Commissions 9556 W Inspector's Signature National Board, State, and Endorsements
	Inspector's Signature  Date 6/12/90

PLAN NO. 2-0578 Buldup Suiph 6/11/90.

Pg. \_1\_\_ of \_1\_\_

## FORM NPV-1 CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES\* As Required by the Provisions of the ASME Code, Section III, Division 1

1 2 2 3 1. Manufactured and cartified by Kerotest Mfg. Corp., 2525 Liberty Ave., Pgh, Pa 15222 (C159177) (name and address of N Certificate Holder) Washington Public Pwr., Supply System, Richland, WA 99352-0968 2. Manufactured for Iname and address of Purchaser or Owner) Washington Public Pwr Supply System, North Power Plant Loop, 3. Location of installation (name and address)
WPP-30606GS-(2)
Rev. michiand, WA 99352 N/A A Check CRN. Drawing 4. Model No., Series No., or Type 2 N/A 1986 N/A 5. ASME Code. Section III. Division 1: (addenda date) (Code Case no.) (edition) (ciass) 3/4" 3/4" Valve **Outlet size** Nominal inlet size 6. Pump or valve. cover SA105 7. Material: Body SA105 Disk SA470,316 N/A **Bolting (b)** (c) (e) (a) Body Disk Nat'l Cert. Serial Board Serial Holder's No. Serial No. No. No. No. ATZ2-11 GAS AQQ N/A ATZ2-11

<sup>\*</sup>Supplemental information in form of lists, sketches, or drawings may be used provided (1) size is 8% × 11, (2) information in items 1 through 4 on this Data Report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

## CIA-V-21, SIN ATZZ-11. Lulde Burts. 4123190

### FORM NPV-1 (back)

8. Remarks				
9. Design conditions 1480	psi	oF or valve pressure	e class 600#	(1)
1480				
10. Cold working pressure	psi. Disk differential test pri	2628		psi
				· · · · · ·
	CERTIFICATION OF	DESIGN		-
Oesign Specification certified by	David M. Lakatos	P.E. State PA	Reg. no. 35758	<u>-E</u>
Design Report certified by	David M. Lakatos	P.E. State PA	Reg. ло. <u>35758</u>	<u>-E</u>
,			,	
	CERTIFICATE OF SHOP	COMPLIANCE		
		e shin awar na walun anafara		
We certify that the statements made of the ASME Code, Section III, Divis	ion 1.°	t this pump or valve conform	is to the rules for const	ruction ,
N Certificate of Authorization No	1902		4-25-92	
04/12/90 Name Ker	otest Mfg., Corp.	5	hosing	
OateName	(N Certificate Holder)	Signed/ (authorities)	onzed representative)	
,	CERTIFICATE OF SHOP	INSPECTION		
I. the undersigned, holding a valid		r 	Manast Inches	
the State or Province of Pennsy	lvania	and employed by Hartfor	rd Steam Boile	r I&I Co.
of Hartford, CT	( ) )	ected the pump, or valve, de		
constructed this pump, or valve, in		t of my knowledge and beli , Section III, Division 1.	ef, the Certificate Hol	der has
By signing this certificate, neither t	he inspector nor his employer m	akes any warranty, express	ed or implied, concern	ing the
component described in this Data R			•	nner for
any personal injury or property dam	age or a loss or any kind arising !	rom or connected with this i	nspection.	
Date 4 12.90 Signed	(Authorized Inspector) Cor	nmissions (Nat'l. 8d. (Incl. and	57V orsements) state or prov.	*00 00.1
		tire ii pai iiivei fiid	and the state of Bload	21.411411

(1) For manually operated valves only.

9-17-50

Date: 6/12/90

Sheet: 1 of 1

Unit: WNP-2

## FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

1. Owner: Washington Public Power Supply System (WPPSS)

Address: 3000 George Washington Way, Richland, WA

2. Plant: WPPSS Nuclear Power Plant (WNP)

Address: Hanford, Benton County, WA

- 3.(a) Work Performed by: Bechtel Construction, Incorporation
  - (b) Repair Organization P.O. No., Job No., etc.: PO Box 600, Richland, WA
- 4. Identification of System: Containment Instrument Air (CIA) System
- 5. (a) Applicable Construction Code ASME Section III: 1971 Edition with Winter 1973 Addenda, Code Case: None
  - (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
- 6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
CIA(5)-2A	WPPSS	CIA(5)-2A-P1	N/A	N/A	1983	Replacement	Yes, Code Class 2

- 7. Description of Work: Replaced valve CIA-V-31A. The replacement work was performed as follows
  - 1) Cut and removed section of existing piping material
  - 2) Installed new replacement piping material and valve
  - 3) Made required socket welds
  - 4) Performed PT examination on the final socket welds. PT examination results acceptable

	FORM NIS-2 (Back)
8.	Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other X None  Test Pressure: Psig Test Temperature: °F  Component Design Pressure: Psig Temperature: °F
9.	Remarks: See attached NPV-1 Code Data Report for new replacement valve CIA-V-31A, Serial No AQF1-50
	CERTIFICATE OF COMPLIANCE
	We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.  Type Code Symbol Stamp: Not applicable Certificate Authorization No.: Not applicable Expiration Date: Not Applicable  Prepared by  Plant Technical Manager
	Date 6/12/90, Date 6-12-90
	I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 4/24/40 to 4/24/40 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.  By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.  Commissions  National Board, State, and Endorsements
	Date 6/12/90

۶,

## FORM NPV-1 CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES\* 4/23/90 As Required by the Provisions of the ASME Code, Section III, Division 1

Pg.  $\frac{1}{}$  of  $\frac{1}{}$ 

. 1. Manufactured and cert	Kerc	rest M	fø. Corp	2525 L	iberty Ave.	, Pgh,	Pa 15222 (	(C159177)
Manufactured and cert	tified by		(1	name and address	s of N Certificate Hole	der)	00252-006	<del></del>
2. Manufactured for Wa			(name ar	od addings of Pu	rchaser or (Jwoet)			
3. Location of installation	Washing	on Pub	lia Dum	Supply Sy	stem, North	Power	Plant Loop	<del></del>
	HECHEGIN	., ""		(name and			N / A	
4. Model No., Series No.	, or Type							
5. ASME Code, Section	III, Division 1:		1986	N/A	(class		N/A (Code Case no	
V.	alve	•	tion)	(addenda dai 1/2"	Outlet size	1/2		'a#
6. Pump or valveVa		Nominai	inlet size	(in.)	Outlet size	(in.)		
7. Material: Body SA1	L05	Cover	SA105	Disk	SA479,316	_ Bolting	A\N	
(a) '	(b)		(c	:)	(d)		(e)	
Cert.	Nat'l		Bo	dy	人提供领		Disk	
Holder's	Board		Ser	rial	Serial		Serial	
Serial No.	No.		N	o	No.		Nò.	
AOF1-50	N/A		40F1-5	0	GAS.		AQQ	
ASI,5-62	N/A		4SL5-6	2	GAS	`_	AQQ	
	<u> </u>			<del></del>				
		<del></del>						
```	7.	<del></del>						
•	<del>-                                    </del>			<del></del>				
		,						
	<u> </u>		`					<u></u>
····			<u> </u>	<del></del> -		<del></del>		
				<del>`</del>				
				<del></del>				
-		<del></del>	***************************************	<del></del>				
								···
						<del></del> _		<del></del>
				<del></del>				<del></del>
		<del></del>		<del></del>				
<del></del>		<del></del>					<u></u>	
t .								

<sup>\*</sup>Supplemental information in form of lists, sketches, or drawings may be used provided (1) size is 8½ × 11, (2) information in items 1 through 4 on this Data Report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form.



## CIA-V-SIH, 2/N AYFI-20 CIA-V-31B, S/N ASL5-62.

### FORM NPV-1 (back)

Kuldip Eury 5 4/23/90.

9. Design conditions 1480 (pressure 1480)  O. Cold working pressure 1480		°F or valve pressu	<b>)</b>	0#(1)
. Hydrostatic test <u>2225</u>	psi. Disk differential test p	ressure162	<u> </u>	psi
	CERTIFICATION O	F DESIGN		
Design Specification certified by Design Report certified by	David M. Lakatos David M. Lakatos	P.E. State PA P.E. State PA	Reg. no. 357	
	CERTIFICATE OF SHOP	COMPLIANCE		
We certify that the statements made	e in this report are correct and th	at this pump or valve confor	ms to the rules for co	nstruction
of the ASME Code, Section III. Divis	sion 1.			
M Camificate of Authorization No.	1902	Fraices	4-25-92	1
		Expires Signed 27/2	125-92 125-1215;	
		Signed Signed	4-25-92	
	otest Mfg., Corp		4-25-92	
	otest Mfg., Corp	(aut	4-25-92	
Date 04/12/90 Name Ker	CERTIFICATE OF SHOIL	P INSPECTION	ressure Vessei Inspe	ectors and
I, the undersigned, holding a valid the State or Province of Pennsy of Hartford, CT	CERTIFICATE OF SHOIL I Commission issued by the National Livania	P INSPECTION  tional Board of Boiler and P  and employed by Hartfo	ressure Vessel Inspe ord Steam Boil	ler I&I Co
I. the undersigned, holding a valid the State or Province of Pennsy of Hartford, CT	CERTIFICATE OF SHOIL Commission issued by the Nativania have insp	P INSPECTION  tional Board of Boiler and P  and employed by Hartfo bected the pump, or valve, of st of my knowledge and be	ressure Vessel Inspe ord Steam Boil	ler I&I Co
41	CERTIFICATE OF SHOP  CERTIFICATE OF SHOP  COmmission issued by the National Ave inspector for the beaccordance with the ASME Coducte inspector for his employer report. Furthermore, neither the	PINSPECTION  Lional Board of Boiler and P. and employed by Hartfo Dected the pump, or valve, of st of my knowledge and being, Section III, Division 1.  Thakes any warranty, expressinspector nor his employer section.	ressure Vessel Inspendent Steam Boil Bota Boil Bescribed in this Data Blief, the Certificate Based or implied, conceptable be liable in any constitution of the Based or implied.	Report on Holder has

. yr. 4.17-90



## FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

Owner: Washington Public Power Supply System (WPPSS)
 Address: 3000 George Washington Way, Richland, WA

Date: 6/12/90 Sheet: 1 of 1 Unit: WNP-2

2. Plant: WPPSS Nuclear Power Plant (WNP)

Address: Hanford, Benton County, WA

- 3.(a) Work Performed by: Bechtel Construction, Incorporation
  - (b) Repair Organization P.O. No., Job No., etc.: PO Box 600, Richland, WA
- 4. Identification of System: Containment Instrument Air (CIA) System
- 5. (a) Applicable Construction Code ASME Section III: 1971 Edition with Winter 1973 Addenda, Code Case: None
  - (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
- 6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
CIA(5)-2B	WPPSS	CIA(5)-2B-P1	N/A	N/A	1983	Replacement	Yes, Code Class 2

- 7. Description of Work: Replaced valve CIA-V-31B. The replacement work was performed as follows
  - 1) Cut and removed section of existing piping material
  - 2) Installed new replacement piping material and valve
  - 3) Made required socket welds
  - 4) Performed PT examination on the final socket welds. PT examination results acceptable

FORM NIS-2 (Back)
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other X None Test Pressure: Psig Test Temperature: °F Component Design Pressure: Psig Temperature: °F
9. Remarks: See attached NPV-1 Code Data Report for new replacement valve CIA-V-31B, Serial No ASLS-62
•
CERTIFICATE OF COMPLIANCE
We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.  Type Code Symbol Stamp: Not applicable Certificate Authorization No.: Not applicable Expiration Date: Not Applicable  Prepared by  Plant Technical Manager
Date 6/12/90 Date 6-12-90
CERTIFICATE OF INSERVICE INSPECTION
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 4/26/90 to 6/2-/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.  By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
Date 1012/20
Date <u>6/12/90</u>

## PLAN NO. 2-0580.

CA-V-31A, S/N AGF1-50.

PLAN NO. 2-0 SSG. CIA-V- 31B, SIN ASC5-62

PURPLEMENT

FORM NPV-1 CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES\*

4)23/90 As Required by the Provisions of the ASME Code, Section III, Division 1

i. Manufactured and		rest Mfg. Co	rp., 2525 L	iberty Ave.,	Pgh, Pa	. 15222 (C	159177)
Manufactured and     Amoughtured for _	Washington	Public Pur	(name and address	s of N Certificate Holds	d. WA 9	9352-0968	-
2. Manufactured for		(000	a and address of Put	Chasel of Uwoell			
2 Loggian of installa	Washingt	an Dublia De	r Supply Sy	stem, North	Power Pl	ant Loop,	_
3. Location of Installa	dichland	, WA 99352	(name and			_	
4. Model No., Series	No., or Type	heck Drav	wing <u>WPP-3060</u>	4GS-(Rev. A		RN N/A	
5. ASME Code, Secti	on III. Division 1:	1986	N/A	<u>· 2</u>		N/A	_
		(edition)	(addenda dati	e) (dass	1/2"	(Code Case no.)	
6. Pump or valve	Valve	Nominal infet size.	1/2"	Outlet size	1/2"	· ·	
7. Material: Body	SA105	Cover SA105		SA479,316	. Bolting	N/A	_
	, the h		(c)	(d)		(e)	
(a) Cert.	(b) Nat'l		Body	***********************		Disk	
Holder's	Board		Serial	Cover Serial		Serial	
Serial No.	No.		No.	No.		No.	
40F1-50	N/A	AGET	-50	GAS		AQQ	_
AST.5-62	N/A		-62	GAS		AQQ	
			<del> </del>				<del></del>
					<del></del>		<del></del>
<del></del>			<del></del> ·				
	<u> </u>						<del></del>
							_
						•	_
	<u> </u>		<del></del>		` <del></del>		_
							<del></del>
	- <del></del>		$\overline{}$				_
•							
							<del></del>
	•			<del></del>			
			•				_
	•						_ <del>-</del>
		<u>.</u>		<del></del>			
						<u> </u>	

<sup>\*</sup>Supplemental information in form of lists, sketches, or drawings may be used provided (1) size is 8% × 11. (2) information in items 1 through 4 on this Data Report is included on each sneet. (3) each sheet is numbered and the number of sheets is recorded at the top of this form.



## CIA-V-318, SIN ALL5-6 C.

### FORM NPV-1 (back)

Kuldip Euro 5 4/23/90.

. Remarks	
. Design conditions 1480 psi 100 °F or valve pressure class 600#    Ipressure   Itemperature   Itemperature	(1) (1)
CERTIFICATION OF DESIGN	7
Design Specification certified by <u>David M. Lakatos</u> P.E. State <u>PA</u> Reg. no. 35758—E Design Report certified by <u>David M. Lakatos</u> P.E. State <u>PA</u> Reg. no. 35758—E	- - -
CERTIFICATE OF SHOP COMPLIANCE  Ve certify that the statements made in this report are correct and that this pump or valve conforms to the rules for construction of the ASME Code, Section III. Division 1.  I Certificate of Authorization No. 1902 Expires 4-25-92  Date 04/12/90 Name Kerotest Mfg., Corp Signed (authorized representative)	,
CERTIFICATE OF SHOP INSPECTION	
the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by Hartford Steam Boiler 18:  Hartford, CT have inspected the pump, or valve, described in this Data Report or Y-12.  19 <u>YC</u> , and state that to the best of my knowledge and belief, the Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III, Division 1.	I Co.
By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the component described in this Data Report, Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.	1

(1) For manually operated valves only.

4.17-90

## FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

1. Owner: Washington Public Power Supply System (WPPSS)
Address: 3000 George Washington Way, Richland, WA

Date: 6/3/90 Sheet: 1 of 1 Unit: WNP-2

2. Plant: WPPSS Nuclear Power Plant (WNP)

Address: Hanford, Benton County, WA

3.(a) Work Performed by: Bechtel Construction, Incorporation

(b) Repair Organization P.O. No., Job No., etc.: PO Box 600, Richland, WA

()

4. Identification of System: Containment Instrument Air (CIA) System

5. (a) Applicable Construction Code ASME Section III: 1971 Edition with Winter 1973 Addenda, Code Case: None

(b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
CIA(5)-1A	WPPSS	CIA(5)-1A-P1	N/A	N/A	1983	Replacement	Yes, Code Class 3

- 7. Description of Work: Replaced valve CIA-V-41A. The replacement work was performed as follows
  - 1) Cut and removed section of existing piping material
  - 2) Installed new replacement piping material and valve
  - 3) Made required socket welds

FORM NIS-2 (Back)
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other X Non- Test Pressure: Psig Test Temperature: °F Component Design Pressure: Psig Temperature: °F
9. Remarks: See attached NPV-1 Code Data Report for new replacement valve CIA-V-41A, Serial No ATZ2-48
• 
CERTIFICATE OF COMPLIANCE
We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.  Type Code Symbol Stamp: Not applicable Certificate Authorization No.: Not applicable Expiration Date: Not Applicable
Prepared by Pular Signed by Plant Technical Manager
Date 6.3/90 Date 6-4-50
CERTIFICATE OF INSERVICE INSPECTION
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 4/26/90 to 5/28/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.  By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.  Commissions  4556.00  National Board, State, and Endorsements  Date  644/90
Date 6/4/90

CIA-V-41A, SJN A722-48 CIA-V-41B, SJN A722-50 Pulaup Sup5 4/23/90

FORM NPV-1 CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES\*
As Required by the Provisions of the ASME Code, Section III, Division 1

Pg. 1 of 1

- '		7	1				
1. Manufactured and ce	rufied by Kerct	est Mfg. Co		berty Ave.,		a 15222 (	<u>(C1</u> 59177)
2. Manufactured for	lashington l	Public Pwr.				99352-096	68
2. Manufactured for	idoniing oon	(na	me and address of Puro	maser or Owner)	-,		
3. Location of installatio	_ Washingto	on Public E	wr Supply Sy	stem, North	Power	Plant Loop	),
J. Location of matamatic	" Richland	, WA 99352	WPP-30604GS-	adiese:		ı	
4. Model No., Series No	., ar TypeC	heck on	wing	(3) RevA		CRN_N/A	<del></del>
5. ASME Code, Section	III, Division 1:	1986	N/A (addenga date	3 (dass)	<del></del>	N/A (Code Case no.	<del></del>
6. Pump or valveV	alve	veditioni Nominal inlet size	1/2"	Outlet size	1/2"		•
7. Material: Body SA	105	cover SAL	(in.) 05 Disk_	SA479.316	(in.) Bolting	N/A	<del></del>
(a)	(b)		(c)	(d)		(e)	
Cart.	Nat'l		Body	Senings.		Disk	
Holder's	Board		Serial	cover Senai		Serial	
Serial No.	No.		No.	No.		No.	
ATZ2-48	N/A	ATZ	2-46	GAS		HQQ	
ATZ2-50	N/A	ATZ	2-50	GAS		ନର୍ଭ	
<u></u>							
		<del> </del>		·			
	·r	<del></del>	<del></del>			<del></del>	
	- 14		<del></del>	•			
	<del></del>	<del></del>	<del></del>			<del></del>	<del></del>
							<del></del>
							<del></del>
		<del></del>	<del> </del>				
	-	<del></del>	<del></del> .		<del></del>		<del></del>
		<del></del>	<del></del>			· · · · · · · · · · · · · · · · · · ·	<del></del>
							<del></del>
		<del></del>		• • • • • • • • • • • • • • • • • • • •	<del></del>		<del></del>
			-				
				v			
			<del></del>				
			-				

<sup>\*</sup> Supplemental information in form of lists, sketches, or drawings may be used provided (1) size is 8% × 11, (2) information in items 1 through 4 on this Data Report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form.



### FORM NPV-1 (back)

CIA-V-41B, SIN ATZZ-500 Ludip Surs 4123190

8. Remarks		,	
g. Design conditions(press	11180	°F or valve pressure	class(1)
Cold working pressure      Hydrostatic test225	psi at 100°F  psi. Oisk differential tes	t pressure1628	psi
	CERTIFICATION	OF DESIGN	i
Design Specification certified by	David M. Lakato: David M. Lakato:		Reg. no. <u>35758-5</u> Reg. no. <u>35758-5</u>
	CERTIFICATE OF SH	OP COMPLIANCE	· · ·
We certify that the statements may of the ASME Code, Section III, Di N Certificate of Authorization No.	vision 1.	Expires	11-25-92
Uate	(N Certificate Holder)	lauthor	nzed (epresentative)
	CERTIFICATE OF S	HOP INSPECTION	
I, the undersigned, holding a value State or Province of Post Province of Hartford, CT /- /2 15 constructed this pump, or valve.	have i	and employed by Hartfornspected the pump, or valve, destroyer of my knowledge and believed.	d Steam Boiler I&I Co
component described in this Data any personal injury or property de	Report, Furthermore, neither timage or a loss of any kind arisi	ng from or connected with this in	all be liable in any manner for spection.
Date 4 12-90 Signed	Authorized Inspectors	Commissions <u>FA 3253</u> (Nat'l. Bd. linci. endo	orsements) state or prov. and no.)

(1) For manually operated valves only.



## FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

 Owner: Washington Public Power Supply System (WPPSS) Address: 3000 George Washington Way, Richland, WA Date: 6/3/90 Sheet: 1 of 1 Unit: WNP-2

2. Plant: WPPSS Nuclear Power Plant (WNP)

Address: Hanford, Benton County, WA

3.(a) Work Performed by: Bechtel Construction, Incorporation

- (b) Repair Organization P.O. No., Job No., etc.: PO Box 600, Richland, WA
- 4. Identification of System: Containment Instrument Air (CIA) System
- 5. (a) Applicable Construction Code ASME Section III: 1971 Edition with Winter 1973 Addenda, Code Case: None
  - (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
- 6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
CIA(5)-1B	WPPSS	CIA(5)-1B-P1	N/A	N/A	1983	Replacement	Yes, Code Class 3

- 7. Description of Work: Replaced valve CIA-V-41B. The replacement work was performed as follows
  - 1) Cut and removed section of existing piping material
  - 2) Installed new replacement piping material and valve
  - 3) Made required socket welds

	FORM NIS-2 (Back)
8.	Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other X None Test Pressure: Psig Test Temperature: °F Component Design Pressure: Psig Temperature: °F
9.	Remarks: See attached NPV-1 Code Data Report for new replacement valve CIA-V-41B, Serial No ATZ2-50
	CERTIFICATE OF COMPLIANCE
	We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.  Type Code Symbol Stamp: Not applicable  Certificate Authorization No.: Not applicable  Expiration Date: Not Applicable  Prepared by Lucy Signed by  Plant Technical Manager  Date 6-4-50
	Date <u>6-4-70</u>
٠	CERTIFICATE OF INSERVICE INSPECTION
	I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 4/26/90 to 5/28/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.  By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.  Commissions  1/25/20  National Board, State, and Endorsements
	Date 6/4/90 -

CIA-V-41A, SJN ATZZ-48 CIA-V-41B, SJN ATZZ-50

PLAN NO. 2-0582

Buldip Eur 5 4/23/90

FORM NPV-1 CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES\*
As Required by the Provisions of the ASME Code, Section III, Division 1

Pg. \_1\_ of \_1\_

				8				
1. Manufactured and cer	rufied by Kerct	est Mfg.	Corp., 25	25 Libert	y Ave.,	Pgh, P	a 15222	(C159177)
			iname and	l accress of N C	emhoate Holder	1		•
2. Manufactured for W	ashington	Public Pw	r., Suppl	y System,	Richlan	d, WA	99352-0	968
			name and addres				51 1-	
3. Location of installation	a		Pwr Supp			Power	Prant ro	op,
	urcursuc	, NA. 773	36,85-30g	me and address 04GS→(3)			<b>**</b> /	•
4. Model No., Series No.	or Type	heck	Orawing		RevA	<del></del>	CRN_N/	A
	1	1986		N/A	3		N/A	
5. ASME Code, Section	III. Division 1:	(edinon)	(adde	ings date)	(G333)		(Code Case	na.)
6. Pump or valveV	alve		1/2	n _	ıtlat sıza	1/2"		
o. Pump of Valva		Nominal inlat s	(in.		, ,	(in.)		
7. Material: Body SA	105	cover Some S	1105	Disk SA4	79,316	Ealting .	N/A	
// material cody <u></u>								
(a)	(5)		(c)		(d)		(e)	
Cert.	Nat'l		Body		<u> </u>		Disk	
Holder's	Board		Serial		COVEY Senai		Serial	
Serial No.	No.		Na.		No.		No.	
ATZ2-40	Ä/Ä		TZ2-40		GAS		بالولو	
aTZ2-20	N/A	A	:TZ2-50		GAS	,	Hold	
· ·								
		7						
	`				·			
<del></del>	<u>``</u>		·		•			··············
					····	<del></del>		
			<del></del>				- <del></del>	<del></del>
					<del></del>	<del></del>	<del></del>	
		<u>~</u>	*•.	<del></del>	<del></del>			
			<del></del>					<del></del>
<del></del>							<del></del>	
		<del></del>		<del></del>			······································	
					` \			
					١.			
	<del></del>		<del></del>					
	,							
	<del></del>							
		<del></del>			<del></del>		····	

ja-17-90

<sup>\*</sup>Supplemental information in form of lists, exercise, or drawings may be used provided (1) size is 8% × 11, (2) information in items 1 through 4 on this Oata Report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

# CIA-V-417, 2/N ATEZ- 0 CIA-V-41B, S/N ATEZ-0 Culdip Eurs 4/23/90

### FORM NPV-1 (back)

. Design conditions	1480 (pressure) 1480	: psi	ture)		pressure	class	600#	(
. Hydrostatic test	2225 psi.	. Disk differential t	est pressure	<del>~</del>	1628	<del></del>		, psi
	<del></del>	CERTIFICATION	on of design	<del> </del>	<del></del>		<del></del>	<del></del> ;
Design Specification cer Design Report certified t		vid M. Lakat vid M. Lakat			PA PA	Reg. no. Reg. no.	35758-E	- 
		*					<del> </del>	
We certify that the state	ements made in this		nd that this pum		conterms	to the rules	for constructs	on !
of the ASME Code. Sec N Cartificate of Authom	tion III. Division T. zation No Name <u>Kerote</u> s	s repondare correct a	nd that this pum		ixpires	to the rules リー25ー リュッ・ゾン)	for constructs 92 33 tatives	
of the ASME Code. Sec N Certificate of Authom	tion III. Division T. zation No Name <u>Kerote</u> s	s report are correct a  1902  T Mfg., Comp	nd that this pum	o or valve	Expires	#-25-	for constructs	on :
of the ASME Code. Sec. N Certificate of Authorition Oate 04/12/90	tion III. Division 1. zation No Name <u>Kerotes</u> .	1902 1902 STATE COMP	SHOP INSPECTI	gned (	ixpires	リー25-	92 ; 1 tative:	
of the ASME Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code. Second Code.	tion III. Division 1. zation No	1902  Ting., Composite Modern  CERTIFICATE OF the State of the Vania	SHOP INSPECTI National Board and employee inspected the least of my kinds	on or valve	r and Preartfor	#-25-	; 1 tative:  inspectors a Boiler I	na &I
the State or Province of Hartiord, (	ding a valid comme Pennsyl  To 19 FO  or valve, in accordate, neither the ins	TENDOR are correct a  1902  THES COPP  N Certificate Holders  CERTIFICATE OF  INVANIA have  and state that to the complete with the ASM  pector nor his employer.	SHOP INSPECTI  National Board and emplo is inspected the inspected my kind best of my kind best of my kind best of my kind best of my kind best of my kind best of my kind best of my kind best of my kind best of my kind best of my kind best of my kind best of my kind best of my kind best of my kind best of my kind best of my kind best of my kind best of my kind best of my kind best of my kind best of my kind best of my kind best of my kind best of my kind best of my kind best of my kind best of my kind best of my kind best of my kind best of my kind best of my kind best of my kind best of my kind best of my kind best of my kind best of my kind best of my kind best of my kind best of my kind best of my kind best of my kind best of my kind best of my kind best of my kind best of my kind best of my kind best of my kind best of my kind best of my kind best of my kind best of my kind best of my kind best of my kind best of my kind best of my kind best of my kind best of my kind best of my kind best of my kind best of my kind best of my kind best of my kind best of my kind best of my kind best of my kind best of my kind best of my kind best of my kind best of my kind best of my kind best of my kind best of my kind best of my kind best of my kind best of my kind best of my kind best of my kind best of my kind best of my kind best of my kind best of my kind best of my kind best of my kind best of my kind best of my kind best of my kind best of my kind best of my kind best of my kind best of my kind best of my kind best of my kind best of my kind best of my kind best of my kind best of my kind best of my kind best of my kind best of my kind best of my kind best of my kind best of my kind best of my kind best of my kind best of my kind best of my kind best of my kind best of my kind best of my kind best of my kind best of my kind best of my kind best of my kind best of my kind best of my kind best of my kind best of my kind best of my kind best of my kind best of my kind best of my kind best of my kind best of my kind bes	on or valve	r and Preartfor valve, design 1. , expresse	ssure Vessed Steam connect in the Carufata or implied and be liable in the carufata or implied and be liable in the carufata or implied and be liable in the carufata or implied and be liable in the carufata or implied and be liable in the carufata or implied and be liable in the carufata or implied and be liable in the carufata or implied and be liable in the carufata or implied and be liable in the carufata or implied and be liable in the carufata or implied and be liable in the carufata or implied and be liable in the carufata or implied and be liable in the carufata or implied and be liable in the carufata or implied and be liable in the carufata or implied and be liable in the carufata or implied and be liable in the carufata or implied and be liable in the carufata or implied and be liable in the carufata or implied and be liable in the carufata or implied and be liable in the carufata or implied and be liable in the carufata or implied and be liable in the carufata or implied and be liable in the carufata or implied and be liable in the carufata or implied and be liable in the carufata or implied and be liable in the carufata or implied and be liable in the carufata or implied and be liable in the carufata or implied and be liable in the carufata or implied and be liable in the carufata or implied and be liable in the carufata or implied and be liable in the carufata or implied and be liable in the carufata or implied and be liable in the carufata or implied and be liable in the carufata or implied and be liable in the carufata or implied and be liable in the carufata or implied and be liable in the carufata or implied and be liable in the carufata or implied and be liable in the carufata or implied and be liable in the carufata or implied and be liable in the carufata or implied and be liable in the carufata or implied and be liable in the carufata or implied and be liable in the carufata or implied and be liable in the carufata or implied and be liable in the carufata or implied and be liable in the car	e Inspectors a Boiler I s Data Report licate Holder r	nd &!

(1) For manually operated valves only.



## FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

 Owner: Washington Public Power Supply System (WPPSS) Address: 3000 George Washington Way, Richland, WA Date: 6/25/90 Sheet: 1 of 1

2. Plant: WPPSS Nuclear Power Plant (WNP)

Unit: WNP-2

A disease the few the same Courte WA

Address: Hanford, Benton County, WA

- 3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA
  - (b) Repair Organization P.O. No., Job No., etc.: WPPSS
- 4. Identification of System: Process Sample Radioactive (PSR) System
- 5. (a) Applicable Construction Code ASME Section III: 1974 Edition with Winter 1975 Addenda, Code Case: None
  - (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
- 6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
PSR-V-X77A/1	Target Rock	1	N/A	N/A	1982	Repair/ Replacement	Yes, Code Class 1

- 7. Description of Work: Performed work on valve PSR-V-X77A/1. The work was performed as follows
  - 1) Cut body to bonnet seal weld
  - 2) Removed valve internals for troubleshooting
  - 3) Reinstalled valve internals and installed new replacement disc
  - 4) Installed bonnet into valve body and torqued it to the required torque value
  - 5) Made body to bonnet seal weld
  - 6) Performed PT examination on the final seal weld. PT examination results acceptable

FORM NIS-2 (Back)							
Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other X None  Test Pressure: Psig Test Temperature: °F  Component Design Pressure: Psig Temperature: °F							
9. Remarks: See attached N-2 Code Data Report for the new replacement disc Serial No 1364							
CERTIFICATE OF COMPLIANCE							
We certify that the statements made in the report are correct and this repair/replacement conforms to the ruthe ASME Code, Section XI.  Type Code Symbol Stamp: Not applicable  Certificate Authorization No.: Not applicable	iles of						
Expiration Date: Not Applicable							
Prepared by Lucian Ecush Signed by Plant Technical Manager							
Date 6/25/90 Date 6-27-90							
CERTIFICATE OF INSERVICE INSPECTION							
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 4/26/90 to 6/25/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.  By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.							
Handbergarts Commissions 9556 W							
Date 6/27/90 Commissions 9556 W National Board, State, and Endorsen	nents						

#### FORM N-2 N O PT CERTIFICATE HOLDERS' DATA PORT FOR IDENTICA NUCLEAR PARTS AND APPURTENANCES\*

As Required by the Provisions of the ASME Code, Section III, Division 1

Mudib	Sups
- 1	6/25/90.

Not To Exceed One Day's Production

Manufactured and certified by	Target Rock Coro	1966E Broadhollow Rd. E.	Farmingdale, NY 117
III V		upply System, Richland, WA	
		belief that the property	
Location of installation WNP	-2, Richland WA, 9935	2 'man and sidened	
	. C SA-564 GR 630		A 1986_
Type ZUZJJY-I, NEV			from build
ASME Code, Section III:	1974 W	1975	. , 1 N/A
	المائنة	urdened with	Ech Charl
Fabricated in accordance with	h Const. Spec. (Div. 2 only) _	N/A Revision N/A	DateN/A
Snana Panta	for a completed value	re assembly (Main Disc. 82M	-001)
Remarks: Opare rairus	Tot. a confusion very	e assembly (remi bloc, car	
	•		
······································			
N/A	Non design thinking it is	N/A_ Die. 10 (ft. & in.)_N/A_ Lon	oth oversit (fr. & in.) N/A
iom, thickness (in.) <u>**/**</u>	, Mir. design uncuness (ir.)	they for each item of this report	٠. د
vnen applicable, Cermicate	violosis cars labolis sid siral	ched for each item of this report.	
			<del></del>
God or Assurtaneous	National	Part or Appurtenance	National
Part or Appurtenance	Board No.	Serial Number	Soard Number
Seriel Number	in Humerical Order		in Numerical Order
		1	
. 1251	N/A	l lmn	
1351	N/A	(26)	-
	N/A	127	
1251	N/A	(28)	
//	N/A	(30)	Statistical Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control o
<u> </u>		(31)	
3)			EGGress
	1		
•		(32)	
)		(32)	<b>4</b> 275
3)		(32) (33) (34)	Sector
3) 	·	(32) (33) (34) (35)	
0) 1) 1)		(32) (33) (34) (35) (36)	
0) 1) 2)	·	(32) (33) (34) (35) (36) (37)	
)	·	(32) (33) (34) (35) (36) (37) (38)	
0) 1) 2) 3) 4)		(32) (33) (34) (35) (36) (37) (38) (39)	
0)		(32) (33) (34) (35) (36) (37) (38) (39) (40)	
0)		(32) (33) (34) (35) (36) (37) (38) (39) (40) (41)	
0)		(32) (33) (34) (35) (36) (37) (38) (39) (40) (41) (42)	
3)		(32) (33) (34) (35) (36) (37) (38) (39) (40) (41) (42) (42)	
(a)		(32) (33) (34) (35) (36) (37) (38) (40) (41) (42) (42) (44)	
3) 3) (0) (1) (1) (2) (3) (4) (5) (6) (7) (9)		(32) (33) (34) (35) (36) (37) (38) (40) (41) (42) (42) (44) (44) (45)	
33) 39) 30) 31) 31) 32) 33) 34) 35) 36) 37) 38) 39) 39) 30)		(32) (33) (34) (35) (36) (37) (38) (39) (40) (41) (42) (42) (44) (45) (46)	
(a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c		(32) (33) (34) (35) (36) (37) (38) (39) (40) (41) (42) (42) (42) (44) (45) (46) (47)	
(a) (b) (c) (c) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d		(32) (33) (34) (35) (36) (37) (38) (39) (40) (41) (42) (42) (42) (43) (44) (45) (45) (47) (48)	
7)		(32) (33) (34) (35) (36) (37) (38) (39) (40) (41) (42) (42) (42) (44) (45) (46) (47)	

The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s

(6/96)-1

This form (E00040) may be estained from the Order Dopt., ASME, 346 E. 47th St., New York, N.Y. 10017.

	•	TO THE STATE OF B	Lucif Su	<b>)</b>
Design spacifie	ations certified by	N/A (when applicable)	P. El state	N/A Reg. no. N/A
Design reports		N/A	P. E. state	N/A Reg. no. N/A
		Tapar F <sub>1 1</sub> 17 234 usis 5/64 a mail		
***		CERTIFICATE OF SHOP C	OMPLIANCE	
.,, , , , , , , , , , , , , , , , , , ,	**		Part	
		i this report are correct and that this (the fit the ASME Code, Section III.	100	
		un manusament und 1.15 2.1		- Pre
•	of Authorization no.	1948	Expires	<del>7-85</del>
S-5-5	Tai	rget Rock Corporation	Signed	<b>^</b>
· · · · · · · · · · · · · · · · · · ·	manual insula annual	SWT Caraticasa Haldari	G. Abruzzo.	Q.A. Manager
			G. ROLUZZO,	Q.A. FRIBEET
•	•••	- CERTIFICATE OF SHOP IN	EPECTION	
lba madamiana		mission issued by the National Source		
	The second second	icted these items described in this du		and state that to
ect of my know	ledge and belief, the C part listed has been a	Sertificate Holder has fabricated these sufficient for stamoung on the date sh	) parts of expultionalicae in acc nown above.	cordance with the ASME Co
ICL of my know ICLC: Til Each y signing this c	part listed has been a partificate, neither the	uthorized for stamping on the date shiftspector nor his employer makes an	nown above. If warranty, expressed or impli	ied, concerning the equiom
ict of my know action III, Each y signing this secribed in this	part listed has been a partificate, neither the data report. Furthern	uthorized for stamping on the date shi inspector nor his employer makes an ore, neither the inspector nor his emp	nown above. y warranty, expressed or impli Noyer shell be liable in any ma	ied, concerning the equiom
ict of my know iction III, Each signing this ecribed in this	part listed has been a partificate, neither the data report. Furthern	uthorized for stamping on the date shiftspector nor his employer makes an	nown above.  y warranty, expressed or impli Noyer shell be liable in any ma section.	ied, concerning the equipm nner for any personal injury
ict of my know iction III, Each signing this ecribed in this	part listed has been a partificate, neither the data report. Furthern	uthorized for stamping on the date shi inspector nor his employer makes an ore, neither the inspector nor his emp	nown above.  by warranty, expressed or implications shall be liable in any managed on the process of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the stat	ied, concerning the equipm nner for any personal injury CCM/MISSION NO.
ict of my know iction III, Each signing this secribed in this	part listed has been a partificate, neither the data report. Furthern	uthorized for stamping on the date shi inspector nor his employer makes an ore, neither the inspector nor his emp	nown above.  by warranty, expressed or implications shall be liable in any managed on the process of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the stat	ied, concerning the equiom
ict of my know iction III, Each signing this ecribed in this	part listed has been a partificate, neither the data report. Furthern	uthorized for stamping on the date shi inspector nor his employer makes an ore, neither the inspector nor his emp	nown above.  by warranty, expressed or implications shall be liable in any managed on the process of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the stat	ied, concerning the equipm nner for any personal injury CCMMISSION NO.
of of my know otton M. Each signing this scribed in this	part listed has been a partificate, neither the data report. Furthern	uthorized for stamping on the date shi inspector nor his employer makes an ore, neither the inspector nor his emp	nown above.  by warranty, expressed or implications shall be liable in any managed on the process of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the stat	ied, concerning the equipm nner for any personal injury CCMMISSION NO.
of of my know otton M. Each signing this scribed in this	part listed has been a partificate, neither the data report. Furthern	uthorized for stamping on the date shi inspector nor his employer makes an ore, neither the inspector nor his emp	nown above.  by warranty, expressed or implications shall be liable in any managed on the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the proces	ied, concerning the equipm nner for any personal injury CCMMISSION NO.
ICL of my know ICLCO III, Each signing this ecribed in this	part listed has been a partificate, neither the data report. Furthern	uthorized for stamping on the date shi inspector nor his employer makes an ore, neither the inspector nor his emp	nown above.  by warranty, expressed or implications shall be liable in any managed on the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the proces	ied, concerning the equipm nner for any personal injury CCM/MISSION NO.
ICL of my know ICLCO III, Each signing this ecribed in this	part listed has been a partificate, neither the data report. Furthern	uthorized for stamping on the date shi inspector nor his employer makes an ore, neither the inspector nor his emp	nown above.  by warranty, expressed or implications shall be liable in any managed on the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the proces	ied, concerning the equipm nner for any personal injury CCM/MISSION NO.
ict of my know iction III, Each signing this ecribed in this	part listed has been a partificate, neither the data report. Furthern	uthorized for stamping on the date shi inspector nor his employer makes an ore, neither the inspector nor his emp	nown above.  by warranty, expressed or implications shall be liable in any managed on the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the proces	ied, concerning the equipm nner for any personal injury CCMMISSION NO.
ict of my know iction III, Each signing this ecribed in this	part listed has been a partificate, neither the data report. Furthern	uthorized for stamping on the date shi inspector nor his employer makes an ore, neither the inspector nor his emp	nown above.  by warranty, expressed or implications shall be liable in any managed on the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the proces	ed, concerning the equipment for any personal injury CCT/M/ISSION NO.
ict of my know iction III, Each signing this ecribed in this	part listed has been a partificate, neither the data report. Furthern	uthorized for stamping on the date shi inspector nor his employer makes an ore, neither the inspector nor his emp	nown above.  by warranty, expressed or implications shall be liable in any managed on the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the proces	ed, concerning the equipment for any personal injury CCT/M/ISSION NO.
ict of my know iction III, Each signing this ecribed in this	part listed has been a partificate, neither the data report. Furthern	uthorized for stamping on the date shi inspector nor his employer makes an ore, neither the inspector nor his emp	nown above.  by warranty, expressed or implications shall be liable in any managed on the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the proces	ed, concerning the equipment for any personal injury CCT/M/ISSION NO.
ict of my know iction III, Each signing this ecribed in this	part listed has been a partificate, neither the data report. Furthern	uthorized for stamping on the date shi inspector nor his employer makes an ore, neither the inspector nor his emp	nown above.  by warranty, expressed or implications shall be liable in any managed on the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the proces	ed, concerning the equipment for any personal injury CCT/M/ISSION NO.
ict of my know iction III, Each signing this ecribed in this	part listed has been a partificate, neither the data report. Furthern	uthorized for stamping on the date shi inspector nor his employer makes an ore, neither the inspector nor his emp	nown above.  by warranty, expressed or implications shall be liable in any managed on the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the proces	ed, concerning the equipment for any personal injury CCT/M/ISSION NO.
ict of my know action III, Each y signing this secribed in this	part listed has been a partificate, neither the data report. Furthern	uthorized for stamping on the date shi inspector nor his employer makes an ore, neither the inspector nor his emp	nown above.  by warranty, expressed or implications shall be liable in any managed on the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the proces	ed, concerning the equipment for any personal injury CCT/M/ISSION NO.
ect of my know ection III. Each y signing this o escribed in this	part listed has been a partificate, neither the data report. Furthern	uthorized for stamping on the date shi inspector nor his employer makes an ore, neither the inspector nor his emp	nown above.  by warranty, expressed or implications shall be liable in any managed on the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the proces	ed, concerning the equipment for any personal injury CCT/M/ISSION NO.
ect of my know ection III. Each y signing this ecciped in this	part listed has been a partificate, neither the data report. Furthern	uthorized for stamping on the date shi inspector nor his employer makes an ore, neither the inspector nor his emp	nown above.  by warranty, expressed or implications shall be liable in any managed on the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the proces	ied, concerning the equipm nner for any personal injury CCM/MISSION NO.

## FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

1. Owner: Washington Public Power Supply System (WPPSS)
Address: 3000 George Washington Way, Richland, WA

Date: 8/20/90 Sheet: 1 of 1

2. Plant: WPPSS Nuclear Power Plant (WNP)

Unit: WNP-2

Address: Hanford, Benton County, WA

3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA

(b) Repair Organization P.O. No., Job No., etc.: WPPSS

4. Identification of System: Process Sample Radioactive (PSR) System

5. (a) Applicable Construction Code ASME Section III: 1974 Edition with Winter 1975 Addenda, Code Case: None

(b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
PSR-V-X77A/2	Target Rock		N/A	N/A	1982	Repair/ Replacement	Yes, Code Class 1

- 7. Description of Work: Performed work on valve PSR-V-X77A/2. The work was performed as follows
  - 1) Cut and removed support material to facilitate work on the valve
  - 2) Cut body to bonnet seal weld
  - 3) Removed valve internals for troubleshooting
  - 4) Reinstalled valve internals and installed new replacement disc
  - 5) Installed bonnet into valve body and torqued it to the required torque value
  - 6) Made body to bonnet seal weld
  - 7) Performed PT examination on the final seal weld. PT examination results acceptable
  - 8) Reinstalled support material and made required welds
  - 9) Performed MT examination on the final welds. MT examination results acceptable

Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other X  Test Fressure: Psig Test Temperature: °F Component Design Pressure: Psig Temperature: °F Component Design Pressure: Psig Temperature: °F Remarks: See attached N-2 Code Data Report for the new replacement disc Serial No 1351  CERTIFICATE OF COMPLIANCE  We certify that the statements made in the report are correct and this repair/replacement conforms to the rules the ASME Code, Section XI. Type Code Symbol Stamp: Not applicable Certificate Authorization No.: Not applicable Certificate Authorization No.: Not applicable Expiration Date: Not Applicable Prepared by Lucius Signed by Plant Technical Manager  Date 9-0-90  CERTIFICATE OF INSERVICE INSPECTION  I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Ver Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Repoduring the period 4/126/12. to 1/21/190 and state to the best of my knowledge and belief, to Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.  By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or impli	<del></del> :•	
Test Pressure: Psig Test Temperature: °F Component Design Pressure: Psig Temperature: °F Temperature: °F Temperature: °F Temperature: °F Temperature: °F Temperature: °F Temperature: °F Temperature: °F Temperature: °F Temperature: °F Temperature: °F Temperature: °F Temperature: °F Temperature: °F Temperature: °F Temperature: °F Temperature: °F Temperature: °F Temperature: °F Temperature: °F Temperature: °F Temperature: °F Temperature: °F Temperature: °F Temperature: °F Temperature: °F Temperature: °F Temperature: °F Temperature: °F Temperature: °F Temperature: °F Temperature: °F Temperature: °F Temperature: °F Temperature: °F Temperature: °F Temperature: °F Temperature: °F Temperature: °F Temperature: °F Temperature: °F Temperature: °F Temperature: °F Temperature: °F Temperature: °F Temperature: °F Temperature: °F Temperature: °F Temperature: °F Temperature: °F Temperature: °F Temperature: °F Temperature: °F Temperature: °F Temperature: °F Temperature: °F Temperature: °F Temperature: °F Temperature: °F Temperature: °F Temperature: °F Temperature: °F Temperature: °F Temperature: °F Temperature: °F Temperature: °F Temperature: °F Temperature: °F Temperature: °F Temperature: °F Temperature: °F Temperature: °F Temperature: °F Temperature: °F Temperature: °F Temperature: °F Temperature: °F Temperature: °F Temperature: °F Temperature: °F Temperature: °F Temperature: °F Temperature: °F Temperature: °F Temperature: °F Temperature: °F Temperature: °F Temperature: °F Temperature: °F Temperature: °F Temperature: °F Temperature: °F Temperature: °F Temperature: °F Temperature: °F Temperature: °F Temperature: °F Temperature: °F Temperature: °F Temperature: °F Temperature: °F Temperature: °F Temperature: °F Temperature: °F Temperature: °F Temperature: °F Temperature: °F Temperature: °F Temperature: °F Temperature: °F Temperature: °F Temperature: °F Temperature: °F Temperature: °F Temperature: °F Temperature: °F Temperature: °F Temperature: °F Temperature: °F Temperature: °F Temperature: °F Temperature: °F Temperature: °F Tempe	FORM NIS-2 (Back)	
CERTIFICATE OF COMPLIANCE  We certify that the statements made in the report are correct and this repair/replacement conforms to the rules the ASME Code, Section XI.  Type Code Symbol Stamp: Not applicable Certificate Authorization No.: Not applicable Expiration Date: Not Applicable  Prepared by  Signed by  Flant Technical Manager  Date  CERTIFICATE OF INSERVICE INSPECTION  I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Ves Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period  ###################################	Test Pressure: Psig Test Temperature: OF	Other X No
We certify that the statements made in the report are correct and this repair/replacement conforms to the rules the ASME Code, Section XI.  Type Code Symbol Stamp: Not applicable Certificate Authorization No.: Not applicable Expiration Date: Not Applicable  Prepared by Lucy Signed by  Plant Technical Manager  Date  CERTIFICATE OF INSERVICE INSPECTION  I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Ves Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period  1. Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.  By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implicate in the components of the Passachused or implicate the components of the Passachused or implicate the period 1. The present of the Passachused or implicate the period of the Passachused or implicate the period of the Passachused or implicate the period of the Passachused or implicate the period of the Passachused or implicate the period of the Passachused or implicate the period of the Passachused or implicate the period of the Passachused or implicate the period of the Passachused or implicate the period of the Passachused or implicate the period of the Passachused or implicate the period of the Passachused or implicate the period of the Passachused or implicate the period of the Passachused or implicate the period of the Passachused or implicate the period of the Passachused or implicate the period of the Passachused or implicate the period of the Passachused or implicate the period of the Passachused or implicate the period of the Passachused or implicate the period of the Passachused or implicate the period of the Passachused or implicate the period of the Passachused or i	Remarks: See attached N-2 Code Data Report for the new replacement disc Serial No 1351	•
We certify that the statements made in the report are correct and this repair/replacement conforms to the rules the ASME Code, Section XI.  Type Code Symbol Stamp: Not applicable Certificate Authorization No.: Not applicable Expiration Date: Not Applicable  Prepared by     Signed by		
We certify that the statements made in the report are correct and this repair/replacement conforms to the rules the ASME Code, Section XI.  Type Code Symbol Stamp: Not applicable Certificate Authorization No.: Not applicable Expiration Date: Not Applicable  Prepared by     Signed by	•	
We certify that the statements made in the report are correct and this repair/replacement conforms to the rules the ASME Code, Section XI.  Type Code Symbol Stamp: Not applicable Certificate Authorization No.: Not applicable Expiration Date: Not Applicable  Prepared by Lucy Signed by  Plant Technical Manager  Date  CERTIFICATE OF INSERVICE INSPECTION  I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Ves Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period  1. Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.  By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implicate in the components of the Passachused or implicate the components of the Passachused or implicate the period 1. The present of the Passachused or implicate the period of the Passachused or implicate the period of the Passachused or implicate the period of the Passachused or implicate the period of the Passachused or implicate the period of the Passachused or implicate the period of the Passachused or implicate the period of the Passachused or implicate the period of the Passachused or implicate the period of the Passachused or implicate the period of the Passachused or implicate the period of the Passachused or implicate the period of the Passachused or implicate the period of the Passachused or implicate the period of the Passachused or implicate the period of the Passachused or implicate the period of the Passachused or implicate the period of the Passachused or implicate the period of the Passachused or implicate the period of the Passachused or implicate the period of the Passachused or implicate the period of the Passachused or implicate the period of the Passachused or i	·	
the ASME Code, Section XI.  Type Code Symbol Stamp: Not applicable  Certificate Authorization No.: Not applicable  Expiration Date: Not Applicable  Prepared by Signed by Flant Technical Manager  Date T-U-?2  CERTIFICATE OF INSERVICE INSPECTION  I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Ves Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Reporduring the period 4/26/90 to 1/21/90 and state to the best of my knowledge and belief, to Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.  By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implications.	CERTIFICATE OF COMPLIANCE	
Plant Technical Manager  Date  CERTIFICATE OF INSERVICE INSPECTION  I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Ves Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Repo during the period 4/26/90 to 1/21/90 and state to the best of my knowledge and belief, to Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.  By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implicate the components of the ASME Code, Section XI.	the ASME Code, Section XI.  Type Code Symbol Stamp: Not applicable  Certificate Authorization No.: Not applicable	orms to the rules o
CERTIFICATE OF INSERVICE INSPECTION  I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Ves Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Repo during the period 4/26/90 to 8/21/90 and state to the best of my knowledge and belief, to Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.  By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implicate.	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	nger
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Ves Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Repo during the period 4/26/90 to 8/21/90 and state to the best of my knowledge and belief, to Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.  By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implicate.	Date	
Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Repo during the period 4/26/90 to 5/2/90 and state to the best of my knowledge and belief, to Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.  By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implicate.	CERTIFICATE OF INSERVICE INSPECTION	·
	Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Commutual System) of Norwood, Massachusetts have inspected the components described in the during the period 4/26/90 to 1/21/90 and state to the best of my knowled Owner has performed examinations and taken corrective measures described in this Owner accordance with the requirements of the ASME Code, Section XI.  By signing this certificate neither the Inspector nor his employer makes any warranty, expecton concerning the examinations and corrective measures described in this Owner's Report. Further than the second concerning the examinations and corrective measures described in this Owner's Report.	pany (Factory c Owner's Report dge and belief, the s Report in pressed or implied rthermore, neither
the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.		erty damage or a
Date \$\(\alpha\) 1/90  Commissions \(\begin{array}{c} 9556 \ \omegar{\text{W}}{\text{National Board, State, and Endorsement}}\)	Commissions 9556 W   National Board, State	, and Endorsements
Date 8/21/90	Date 8/21/90	

### ·2000年 李克克辛 FORM N-2 N COPT CERTIFICATE HOLDERS' DATA PORT FOR IDENTICAL Quant Supplement of the Supplement of the Supplement of the Supplement of the Supplement of the Supplement of the Supplement of the Supplement of the Supplement of the Supplement of the Supplement of the Supplement of the Supplement of the Supplement of the Supplement of the Supplement of the Supplement of the Supplement of the Supplement of the Supplement of the Supplement of the Supplement of the Supplement of the Supplement of the Supplement of the Supplement of the Supplement of the Supplement of the Supplement of the Supplement of the Supplement of the Supplement of the Supplement of the Supplement of the Supplement of the Supplement of the Supplement of the Supplement of the Supplement of the Supplement of the Supplement of the Supplement of the Supplement of the Supplement of the Supplement of the Supplement of the Supplement of the Supplement of the Supplement of the Supplement of the Supplement of the Supplement of the Supplement of the Supplement of the Supplement of the Supplement of the Supplement of the Supplement of the Supplement of the Supplement of the Supplement of the Supplement of the Supplement of the Supplement of the Supplement of the Supplement of the Supplement of the Supplement of the Supplement of the Supplement of the Supplement of the Supplement of the Supplement of the Supplement of the Supplement of the Supplement of the Supplement of the Supplement of the Supplement of the Supplement of the Supplement of the Supplement of the Supplement of the Supplement of the Supplement of the Supplement of the Supplement of the Supplement of the Supplement of the Supplement of the Supplement of the Supplement of the Supplement of the Supplement of the Supplement of the Supplement of the Supplement of the Supplement of the Supplement of the Supplement of the Supplement of the Supplement of the Supplement of the Supplement of the Supplement of the Supplement of the Supplement of the Supplement of the Supplement of the Supplement of the

As Required by the Provisions of the ASME Code, Section III, Division 1

Manufactured and certified by Target Rock Corp., 1968 Broadhollow Rd. E. Farming dal passe and address of certificate holders.  Mashington Public Power Supply System, Richland, WA 99352-0968  Passe and address of purchaser.  Rectangle Passes and address of purchaser.  MA 99352-0968  Passes and address of purchaser.  Rectangle Passes and address of purchaser.  N/A 1974 W1975 Passes and address of purchaser.  N/A 1974 Passes and address of purchaser.  N/A 1974 Passes and address of purchaser.  N/A 1974 Passes and address of purchaser.  N/A 1974 Passes and address of purchaser.  N/A 1974 Passes and address of purchaser.  N/A 1975 Passes and address of purchaser.  N/A 1975 Passes and address of purchaser.  N/A 1975 Passes and address of purchaser.  N/A 1975 Passes and address of purchaser.  N/A 1975 Passes and address of purchaser.  N/A 1975 Passes and address of carificate holders.  N/A 1975 Passes and address of purchases.  N/A 1975 Passes and address of purchases.  N/A 1975 Passes and address	
Mashington Public Power Supply System, Richland, WA 99352-0968  Location of installation  WNP-2, Richland WA, 99352  Type  202539-1, Rev. C SA-564 CR 630 140,000 Min. N/A  Location of installation  WNP-2, Richland WA, 99352  Type  202539-1, Rev. C SA-564 CR 630 140,000 Min. N/A  Location of installation  WNP-2, Richland WA, 99352  Power and address  Fabricated in accordance with Const. Spec. (Div. 2 only)  W 1975  Fabricated in accordance with Const. Spec. (Div. 2 only)  N/A Revision N/A Date  Remarks: Spare Parts for a completed valve assembly (Main Disc. 82M-001)  Nom. thickness (in.) N/A Min. design thickness (In.) N/A Dia. ID (ft. & in.) N/A Length overall (ft. When applicable, Certificate Holders' data reports are attached for each item of this report:	1986 heartast N/A
Location of installation WNP-2, Richland WA, 99352  Type 202539-1, Rev. C SA-564 GR 630 140,000 Min. N/A  Linert. see. ne. 7	1986
Location of installation WNP-2, Richland WA, 99352  Type 202539-1, Rev. C SA-564 GR 630 140,000 Min. N/A  Linert. see. ne. 7	1986
Type 202539-1, Rev. C SA-564 CR 630 140,000 Min. N/A  Inverse res (mert. see. ne.)   Head server (Const. Const. See. ne.)   Head server (Const. Const.  N/A	
Type 202539-1, Rev. C SA-564 CR 630 140,000 Min. N/A    March see, ne.]   March see,	N/A
ASME Code, Section III: 1974 W 1975  Fabricated in accordance with Const. Spec. (Div. 2 only) N/A Revision N/A Date  Remarks: Spare Parts for a completed valve assembly (Main Disc. 82M-CO1)  Nom. thickness (in.) N/A Min. design thickness (in.) N/A Dia. ID (ft. & in.) N/A Length overall (ft. When applicable, Certificate Holders' data reports are attached for each item of this report:	N/A
ASME Code, Section III: 1974 W 1975  Fabricated in accordance with Const. Spec. (Div. 2 only) N/A Revision N/A Date  Remarks: Spare Parts for a completed valve assembly (Main Disc. 82M-COL)  Nom. thickness (in.) N/A Min. design thickness (in.) N/A Dia. ID (ft. & in.) N/A Length overall (ft. When applicable, Certificate Holders' data reports are attached for each item of this report:	*******
Fabricated in accordance with Const. Spec. (Div. 2 only) N/A Revision N/A Date Remarks: Spare Parts for a completed valve assembly (Main Disc. 82M-CO1)  Nom. thickness (in.) N/A Min. design thickness (in.) N/A Dia. ID (ft. & in.) N/A Length overall (ft. When applicable, Certificate Holders' data reports are attached for each item of this report:	*******
Remarks: Spare Parts for a completed valve assembly (Main Disc, 82M-CO1)  Nom. thickness (in.) N/A Min. design thickness (in.) N/A Dia ID (ft. & in.) N/A Length overall (ft. When applicable, Certificate Holders' data reports are attached for each item of this report:	N/A
Remarks: Spare Parts for a completed valve assembly (Main Disc, 82M-001)  Nom. thickness (in.) N/A Min. design thickness (in.) N/A Dia. ID (ft. & in.) N/A Length overall (ft. When applicable, Certificate Holders' data reports are attached for each item of this report:	
Nom. thickness (in.) N/A Min. design thickness (in.) N/A Die. ID (ft. & in.) N/A Length overall (ft. When applicable, Certificate Holders' data reports are attached for each item of this report:	
When applicable, Certificate Holders' data reports are attached for each item of this report:	a in.) N/
Part or Appurtamence National Part or Appurtamence Ni	ational
Salt of Applicationalities   Matricina	d Number
Option Motificial Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Con	erical Order
in regiments of the	>~
(1) 1351 N/A (26)	
(2) 1353 M/A (27)	. ************************************
(3) 1355 N/A (28)	1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,000 to 1,0
1364 N/A (29)	

in Numerical Order	1 1	In Numerical Order
	†	Dan!
	<u> </u>	1,342
	(28)	<u> </u>
N/A	(29)	# <b>A</b>
		- called
		in the second
	-1 1	
	• • • • • • • • • • • • • • • • • •	الكاينات
i		فصيعة
		m15
1	-1 1 · ·	250
		Arres .
1	4 1	<u> </u>
•		<del></del>
	- [	-
		<del> </del>
	_   (44)	<u> </u>
	(45)	<u> </u>
	45)	
	(47)	
	(48)	
	1 1 1	
1	1 1 1 1	
	N/A N/A N/A N/A	N/A  N/A  N/A  (28)  (29)  (30)  (31)  (32)  (33)  (34)  (35)  (37)  (38)  (39)  (40)  (41)  (42)  (45)  (45)  (47)  (48)

°F. Hydro, test pressure 4285 PSI N/A N/A 10. Design pressure.

\*Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is 8% X 1, (2) information in items 2 and 3 on this data report is included on each short, (3) each short is numbered and the number of shorts is recorded at the top of this form.

(8/86)-1

(6/96)-1

This form (£00040) may be elected from the Order Dopt., ASME, 345 E. 47th St., New York, N.Y. 10017.



## FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

Owner: Washington Public Power Supply System (WPPSS)
 Address: 3000 George Washington Way, Richland, WA

Date: 6/25/90 Sheet: 1 of 1 Unit: WNP-2

2. Plant: WPPSS Nuclear Power Plant (WNP)

Address: Hanford, Benton County, WA

- 3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA
  - (b) Repair Organization P.O. No., Job No., etc.: WPPSS
- 4. Identification of System: Process Sample Radioactive (PSR) System
- 5. (a) Applicable Construction Code ASME Section III: 1974 Edition with Winter 1975 Addenda, Code Case: None
  - (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
- 6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
PSR-V-X77A/3	Target Rock	3	N/A	N/A	1982	Repair/ Replacement	Yes, Code Class 1

- 7. Description of Work: Performed work on valve PSR-V-X77A/3. The work was performed as follows
  - 1) Cut body to bonnet seal weld
  - 2) Removed valve internals for troubleshooting
  - 3) Reinstalled valve internals and installed new replacement disc
  - 4) Installed bonnet into valve body and torqued it to the required torque value
  - 5) Made body to bonnet seal weld
  - 6) Performed PT examination on the final seal weld. PT examination results acceptable
  - 7) Reinstalled support for the valve and made required welds
  - 8) Performed MT examination on the final welds. MT examination results acceptable

	FORM NIS-2 (Back)							
8.	8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other X None Test Pressure: Psig Test Temperature: OF Component Design Pressure: Psig Temperature: OF							
9.	9. Remarks: See attached N-2 Code Data Report for the new replacement disc Serial No 1355							
	CERTIFICATE OF COMPLIANCE							
	We certify that the statements made in the report are correct and this repair/replacement conforms to the rules of the ASME Code, Section XI.  Type Code Symbol Stamp: Not applicable Certificate Authorization No.: Not applicable Expiration Date: Not Applicable  Prepared by    Signed by   Flant Technical Manager							
	I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 4/20/20 to 6/25/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.  By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.  Commissions 9550 W  National Board, State, and Endorsements							
	Date <u>6/27/90</u>							

#### FORM N-2 N O PT CERTIFICATE HOLDERS' DATA PORT FOR IDENTICAL Butch Sup **NUCLEAR PARTS AND APPURTENANCES\***

As	Required by	the Provisions of th	e ASME Code, Section III, Division 1
		Alex To Forest On	- Davida Damalarasiana

					MA 2 LLOG					73		
	والمستقلة المتناوي				فيمت المستقد الأنواق	والمتحارض والمتحارض						-
tured and certified by	Tarzet	Rock	Corp.	. 1966E	Broadho	Molle	Rd. E.	Farmi	ngdale	NY	1173	5
					and address	e of certifi	cate holders			•		-

		¥	dress of certificate holder)	
anulactured for	leshington Public Pox	ver Supply System	n, Richland, WA 9	9352-0968
-		from and address	of purchaser)	
3. Location of installation	WNP-2, Richland WA.	99352		
	• , , , ,	Thems are		•
4. Type 202539-1.	Rev. C SA-564 GR	630 140,000 M	in. N/A	1986
themselves	(mot'l apec no.)	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	- (CAM)	Syear build
5. ASME Code, Section II	. 1974	W 1975	, 21,23, service 1	N/A
o. Admit cood, document	inited	لفتطعطما	Eug.	(CLUB CALLARY)
S. Fabricated in accordan	nce with Const. Spec. (Div. 2	only N/A	Revision N/A	Date N/A
7. Remarks: Spare P.	arts for a completed	l valve assembly	(Main Disc. 82M-4	001)
		w a *		
			•	

8. Nom. thickness (in.) N/A Min. design thickness (in.) N/A Die. ID (ft. & in.) N/A Length oversit (ft. & in.) N/A

9. When applicable, Certificate Holders' data reports are attached for each item of this reports.

Part or Appurtenence Seriel Number	Hetionel Board No. In Numerical Order	Part or Appurtenance Serial Number	National Sourd Number In Humerical Order
1351	N/A	(26)	
1353	H/A · · ·	(27)	
1355	N/A	(28)	
1364	N/A	(29)	AL AND
		(30)	
		(31)	
		(32)	255-ma
	·	(33)	a cros
		(34)	(2)
		(35)	<b>一</b>
		(38)	
		(37)	775 Tab
		(38)	
		(39)	
		(40)	
		(41)	
		1401	
		(43)	
		(44)	
		(45)	
		(45)	
		14-14	
		1404	
		1401	
		(60)	

"Supplemental information in the form of lists, sketchee, or drawings may be used pro-

This form (E00040) may be obtained from the Order Dopt., ASME, 346 E. 47th St., New York, N.Y. 10017

Design specifications certified by N/A Reg. no. N/A  Design reports cartified by Reg. no. N/A  Design reports cartified by Reg. no. N/A  Design reports cartified by Reg. no. N/A  Design reports cartified by Reg. no. N/A  Design reports cartified by Reg. no. N/A  Design reports cartified by Reg. no. N/A  Design reports cartified by Reg. no. N/A  Design reports cartified by Reg. no. N/A  Design reports cartified by Reg. no. N/A  Design reports cartified by Reg. no. N/A  Design reports cartified by Reg. no. N/A  Design reports cartified by Reg. no. N/A  Design reports cartified by Reg. no. N/A  Design reports cartified by Reg. no. N/A  Design reports cartified by Reg. no. N/A  Design reports cartified by Reg. no. N/A  Design reports cartified by Reg. no. N/A  Design reports cartified by Reg. no. N/A  Design reports cartified by Reg. no. N/A  Design reports cartified by Reg. no. N/A  Design reports cartified by Reg. no. N/A  Design reports cartified by Reg. no. N/A  Design reports cartified by Reg. no. N/A  Design reports cartified by Reg. no. N/A  Design reports cartified by Reg. no. N/A  Design reports cartified by Reg. no. N/A  Design reports cartified by Reg. no. N/A  Design reports cartified by Reg. no. N/A  Design reports cartified by Reg. no. N/A  Design reports cartified by Reg. no. N/A  Design reports cartified by Reg. no. N/A  Design reports cartified by Reg. no. N/A  Design reports cartified by Reg. no. N/A  Design reports cartified by Reg. no. N/A  Design reports cartified by Reg. no. N/A  Design reports cartified by Reg. no. N/A  Design reports cartif	•	· · · · · · · · · · · · · · · · · · ·	EDIGN 0. 14.96 0 1364.
esign report! certified by N/A Reg. no N/A  seign report! certified by P. E. state N/A Reg. no N/A  seign report! certified by P. E. state N/A Reg. no N/A  seign report! certified by P. E. state N/A Reg. no N/A  seign report! certified by P. E. state N/A Reg. no N/A  seign report! certified by P. E. state N/A Reg. no N/A  seign report! certified by P. E. state N/A Reg. no N/A  seign report! certified by P. E. state N/A Reg. no N/A  seign report! certified by P. E. state N/A Reg. no N/A  seign report! certified by P. E. state N/A Reg. no N/A  seign report! certified by P. E. state N/A Reg. no N/A  seign report! certified by P. E. state N/A Reg. no N/A  seign report! certified by P. E. state N/A Reg. no N/A  P. E. state N/A Reg. no N/A  Reg. no N/A  Reg. no N/A  P. E. state N/A Reg. no N/A  Reg. no N/A  Reg. no N/A  Reg. no N/A  Reg. no N/A  Secritified by P. E. state N/A Reg. no N/A  Reg. no N/A  Reg. no N/A  Reg. no N/A  Reg. no N/A  Reg. no N/A  Reg. no N/A  Reg. no N/A  Reg. no N/A  Reg. no N/A  Reg. no N/A  Reg. no N/A  Reg. no N/A  Reg. no N/A  Reg. no N/A  Reg. no N/A  Reg. no N/A  Reg. no N/A  Reg. no N/A  Reg. no N/A  Reg. no N/A  Reg. no N/A  Reg. no N/A  Reg. no N/A  Reg. no N/A  Reg. no N/A  Reg. no N/A  Reg. no N/A  Reg. no N/A  Reg. no N/A  Reg. no N/A  Reg. no N/A  Reg. no N/A  Reg. no N/A  Reg. no N/A  Reg. no N/A  Reg. no N/A  Reg. no N/A  Reg. no N/A  Reg. no N/A  Reg. no N/A  Reg. no N/A  Reg. no N/A  Reg. no N/A  Reg. no N/A  Reg. no N/A  Reg. no N/A  Reg. no N/A  Reg. no N/A  Reg. no N/A  Reg. no N/A  Reg. no N/A  Reg. no N/A  Reg. no N/A  Reg. no N/A  Reg. no N/A  Reg. no N/A  Reg. no N/A  Reg. no N/A  Reg. no N/A  Reg. no N/A  Reg. no N/A  Reg. no N/A  Reg. no N/A  Reg. no N/A  Reg. no N/A  Reg. no N/A  Reg. no N/A  Reg. no N/A  Reg. no N/A  Reg. no N/A  Reg. no N/A  Reg. no N/A  Reg. no N/A  Reg. no N/A  Reg. no N/A  Reg. no N/A  Reg. no N/A  Reg. no N/A  Reg. no N/A  Reg. no N/A  Reg. no N/A  Reg. no N/A  Reg. no N/A  Reg. no N/A  Reg. no N/A  Reg. no N/A  Reg. no N/A  Reg. no N/A  Reg. n	- •		Julius Swe 5
certify that the statements made in this report are correct and that this (these Part norm to the rules of construction of the ASME Code, Section III.  T Certificate of Authorization no. 1946 Expires 12,485  T Certificate of SHOP INSPECTION  The undersigned, holding a valid commission issued by the National Board of Boller and Pressure Vessel Inspectors and the state of the information in the inspector of the information in the inspector of the information in a coordance with the ASME of my knowledge and Bellef, the Certificate Holder has fabricated these parts or expuritorizates in accordance with the ASME of the Certificate, neither the inspector nor his employer shall be liable in any manner for any personal into party demage or loss of any kind arising from or connected with this inspection.  NEW YORK STATE CCMANISSION NO.	esian enacifications continue by		25/4/87.N/A Ban in H/A
CERTIFICATE OF SHOP COMPLIANCS  Control that the elatements made in this report are correct and that this (these). Part  Inform to the rules of construction of the ASME Code, Section IM.  The Certificate of Authorization no. 1948  Expires 12,436  Expires 12,436  Expires 12,436  Target Rock Corporation Signed G. Abruzzo, C.A. Panager  CERTIFICATE OF SHOP INSPECTION  Signed G. Abruzzo, C.A. Panager  CERTIFICATE OF SHOP INSPECTION  Secundarian in the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of		······································	management of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the
CERTIFICATE OF SHOP COMPLIANCS  Control that the statements made in this report are correct and that this (these Part form to the rules of construction of the ASME Code, Section III.  T Certificate of Authorization no.  1948  Expires  Part  CERTIFICATE OF SHOP INSPECTION  Signed  CERTIFICATE OF SHOP INSPECTION  CERTIFICATE OF SHOP INSPECTION  CERTIFICATE OF SHOP INSPECTION  CERTIFICATE OF SHOP INSPECTION  CONTROL To The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of t	y '	N/A	n s and N/A sages N/A
CERTIFICATE OF SHOP COMPLIANCE  Certify that the statements made in this report are correct and that this (these part in the rules of construction of the ASME Code, Section III.  T Certificate of Authorization no.  T Certificate of Authorization no.  T Certificate of Authorization no.  Expires  Land Name Target Rock Corporation  Signed  Abruzzo, Q.A. Manager  CERTIFICATE OF SHOP INSPECTION  CERTIFICATE OF SHOP INSPECTION  Equipment of Botter and Pressure Vessel Inspectors and the state of potential Corporation of the Complete of the Complete of the Corporation of the Corporation of the Corporation of the Corporation of the Corporation of the Corporation of the Corporation of the Corporation of the Corporation of the Corporation of the Corporation of the Corporation of the Corporation of the Corporation of the Corporation of the Corporation of the Corporation of the Corporation of the Corporation of the Corporation of the Corporation of the Corporation of the Corporation of the Corporation of the Corporation of the Corporation of the Corporation of the Corporation of the Corporation of the Corporation of the Corporation of the Corporation of the Corporation of the Corporation of the Corporation of the Corporation of the Corporation of the Corporation of the Corporation of the Corporation of the Corporation of the Corporation of the Corporation of the Corporation of the Corporation of the Corporation of the Corporation of the Corporation of the Corporation of the Corporation of the Corporation of the Corporation of the Corporation of the Corporation of the Corporation of the Corporation of the Corporation of the Corporation of the Corporation of the Corporation of the Corporation of the Corporation of the Corporation of the Corporation of the Corporation of the Corporation of the Corporation of the Corporation of the Corporation of the Corporation of the Corporation of the Corporation of the Corporation of the Corporation of the Corporation of the Corporation of the Corporation of the Corporation of the Corporati	· · · · · · · · · · · · · · · · · · ·	; famos approsité	Pic Static Land Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme Programme
Certify that the statements made in this report are correct and that this (these)  Forms to the rules of construction of the ASME Code, Section IM.  T Certificate of Authorization no.  1948  Expires  Expires  1948  E	·	1999 1. 11 618 July 104 116"	
Certify that the statements made in this report are correct and that this (these)  Forms to the rules of construction of the ASME Code, Section IM.  T Certificate of Authorization no.  1948  Expires  Expires  1948  E		· · · CERTIFICATE OF SMOR CO	MALIANCE
T Cartificate of Authorization no.  1948  Expires  Langer  Name  Target Rock Corporation  Per Canones Helder  CERTIFICATE OF SHOP INSPECTION  CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL	Sec. 1		
T Cartificate of Authorization no.  1948  Expires  Name Target Rock Corporation  Signed  Name Target Rock Corporation  Signed  O. Abruzzo, O.A. Manager  CERTIFICATE OF SHOP RESPECTION  CERTIFICATE OF SHOP RESPECTION  Secundariance Vessel Inspectors and the state of soil of Notice of States and Pressure Vessel Inspectors and the state of soil. Insurance  Eoston, Mass. have inspected these library described in this data report on 555 and state that the form of the state of the part is a secondaric with the ASME of the part is certificate. Holder has fabricated these parts or appartmentate in accordance with the ASME of the part listed has been authorized for stamping on the date shown above.  Signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the equiporative damage or loss of any kind arising from or connected with this inspection.  NEW YORK STATE COMMISSION NO.	carlify that the statements made is	Title report are correct and that this (the	Part Part
T Cartificate of Authorization no.  Target Rock Corporation  Def Cartificate of Shop Incapation  G. Abruzzo, O.A. Manager  CERTIFICATE OF SHOP INCAPATION  CONTROL OF CONTROL OF CONTROL OF CARTIFICATE OF SHOP INCAPATION  CONTROL OF CONTROL OF CONTROL OF CARTIFICATE OF SHOP INCAPATION  CONTROL OF CONTROL OF CONTROL OF CARTIFICATE OF SHOP INCAPATION  CONTROL OF CONTROL OF CARTIFICATE OF SHOP INCAPATION  CONTROL OF CONTROL OF CARTIFICATE OF SHOP INCAPATION  CERTIFICATE OF SHOP	Mora to the rules of construction	of the ASUS Code Section IV	
Name Target Rock Corporation  Det Cardons Holding  G. Abruzzo, O.A. Manager  CERTIFICATE OF SHOP INSPECTION  Description of the Cardinary of the Manager of the Commence of the Manager of the Cardinary of the Cardinary of the Cardinary of the Cardinary of the Cardinary of the Cardinary of the Cardinary of the Cardinary of the Cardinary of the Cardinary of the Cardinary of the Cardinary of the Cardinary of the Cardinary of the Cardinary of the Cardinary of the Cardinary of the Cardinary of the Cardinary of the Cardinary of the Cardinary of the Cardinary of the Cardinary of the Cardinary of the Cardinary of the Cardinary of the Cardinary of the Cardinary of the Cardinary of the Cardinary of the Cardinary of the Cardinary of the Cardinary of the Cardinary of the Cardinary of the Cardinary of the Cardinary of the Cardinary of the Cardinary of the Cardinary of the Cardinary of the Cardinary of the Cardinary of the Cardinary of the Cardinary of the Cardinary of the Cardinary of the Cardinary of the Cardinary of the Cardinary of the Cardinary of the Cardinary of the Cardinary of the Cardinary of the Cardinary of the Cardinary of the Cardinary of the Cardinary of the Cardinary of the Cardinary of the Cardinary of the Cardinary of the Cardinary of the Cardinary of the Cardinary of the Cardinary of the Cardinary of the Cardinary of the Cardinary of the Cardinary of the Cardinary of the Cardinary of the Cardinary of the Cardinary of the Cardinary of the Cardinary of the Cardinary of the Cardinary of the Cardinary of the Cardinary of the Cardinary of the Cardinary of the Cardinary of the Cardinary of the Cardinary of the Cardinary of the Cardinary of the Cardinary of the Cardinary of the Cardinary of the Cardinary of the Cardinary of the Cardinary of the Cardinary of the Cardinary of the Cardinary of the Cardinary of the Cardinary of the Cardinary of the Cardinary of the Cardinary of the Cardinary of the Cardinary of the Cardinary of the Cardinary of the Cardinary of the Cardinary of the Cardinary of the Cardinary of the Ca		or the round good coulds in	
Name Target Rock Corporation    PRY Canadas Haller   Signed   G. Abruzzo, O.A. Manager	, verzet et. IT Comiliares Al Suchanianian en.	1948	12-96-85
CERTIFICATE OF SHOP INSPECTION  Le undersigned, holding a valid commission issued by the National Board of Boller and Pressure Vessel inspectors and the state of the Nest Yoric file and inspectors and the state of the Nest Yoric file and inspector and the state of the Nest Yoric file and inspector and the state of the Nest Yoric file and the State that the National Rest of the National Rest of the National Rest of the National Rest of the National Rest of the National Rest of the National Rest of the National Rest of the National Rest of the National Rest of the National Rest of the National Rest of the National Rest of the National Rest of the National Rest of the National Rest of the National Rest of the National Rest of the National Rest of the National Rest of the National Rest of the National Rest of the National Rest of the National Rest of the National Rest of the National Rest of the National Rest of the National Rest of the National Rest of the National Rest of the National Rest of the National Rest of the National Rest of the National Rest of the National Rest of the National Rest of the National Rest of the National Rest of the National Rest of the National Rest of the National Rest of the National Rest of the National Rest of the National Rest of the National Rest of the National Rest of the National Rest of the National Rest of the National Rest of the National Rest of the National Rest of the National Rest of the National Rest of the National Rest of the National Rest of the National Rest of the National Rest of the National Rest of the National Rest of the National Rest of the National Rest of the National Rest of the National Rest of the National Rest of the National Rest of the National Rest of the National Rest of the National Rest of the National Rest of the National Rest of the National Rest of the National Rest of the National Rest of the National Rest of the National Rest of the National Rest of the National Rest of the National Rest of the National Rest of the National Rest of the Nationa		*4 •	- All
CERTIFICATE OF SHOP RESPECTION  Se undersioned, holding a valid commission issued by the National Board of Boller and Pressure Vessel Inspectors and the state of the National Foundation of the National Board of Boller and Pressure Vessel Inspectors and the state of the National Torrior fluctuation of the National Torrior fluctuation of the National Torrior fluctuation of the National Torrior fluctuation of the National Torrior fluctuation of the National Torrior fluctuation of the National Torrior fluctuation of the National Torrior fluctuation of the National Torrior fluctuation of the National Torrior fluctuation of the National Torrior fluctuation of the National Torrior fluctuation of the National Torrior fluctuation of the National Torrior fluctuation of the National Torrior fluctuation of the National Torrior fluctuation for the National Torrior fluctuation of the National Torrior fluctuation of the National Torrior fluctuation of the National Torrior fluctuation of the National Torrior fluctuation of the National Torrior fluctuation of the National Torrior fluctuation of the National Torrior fluctuation of the National Torrior fluctuation of the National Torrior fluctuation of the National Torrior fluctuation of the National Torrior fluctuation of the National Torrior fluctuation of the National Torrior fluctuation of the National Torrior fluctuation of the National Torrior fluctuation of the National Torrior fluctuation of the National Torrior fluctuation of the National Torrior fluctuation of the National Torrior fluctuation of the National Torrior fluctuation of the National Torrior fluctuation of the National Torrior fluctuation of the National Torrior fluctuation of the National Torrior fluctuation of the National Torrior fluctuation of the National Torrior fluctuation of the National Torrior fluctuation of the National Torrior fluctuation of the National Torrior fluctuation of the National Torrior fluctuation of the National Torrior fluctuation of the National Torrior fluctuation of the National To	n 5-5-86 Name Tai	rget Rock Corporation	Signed ///
contribute of short its particular of the contribute of the contribute of the contribute of the contribute of the contribute of the contribute of the contribute of the contribute of the contribute of the contribute of the contribute of the contribute of the contribute of the contribute of the contribute of the contribute of the contribute of the contribute of the contribute of the contribute of the contribute of the contribute of the contribute of the contribute of the contribute of the contribute of the contribute of the contribute of the contribute of the contribute of the contribute of the contribute of the contribute of the contribute of the contribute of the contribute of the contribute of the contribute of the contribute of the contribute of the contribute of the contribute of the contribute of the contribute of the contribute of the contribute of the contribute of the contribute of the contribute of the contribute of the contribute of the contribute of the contribute of the contribute of the contribute of the contribute of the contribute of the contribute of the contribute of the contribute of the contribute of the contribute of the contribute of the contribute of the contribute of the contribute of the contribute of the contribute of the contribute of the contribute of the contribute of the contribute of the contribute of the contribute of the contribute of the contribute of the contribute of the contribute of the contribute of the contribute of the contribute of the contribute of the contribute of the contribute of the contribute of the contribute of the contribute of the contribute of the contribute of the contribute of the contribute of the contribute of the contribute of the contribute of the contribute of the contribute of the contribute of the contribute of the contribute of the contribute of the contribute of the contribute of the contribute of the contribute of the contribute of the contribute of the contribute of the contribute of the contribute of the contribute of the contribute of the contri	war with the same	والمراجع والمراجع والمناقب والمراجع والمراجع والمناطق والمناطق والمناطق والمناطق والمارات والمراجع والمراجع	
centificate of shop inspection  be undersigned, holding a valid commission issued by the National Board of Boller and Pressure Vessel Inspectors and the state of the New YORK STATE COMMISSION NO.		• • • • • • • • • • • • • • • • • • • •	G. Abruzzo, Q.A. Manager
Tof my knowledge and belief, the Cartificate Holder has fabricated these parts or appartmentes in accordance with the ASME of the fact part listed has been authorized for stamping on the date shown above.  signing this cartificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the equiportion of this data report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injuriently demage or loss of any kind arising from or connected with this inspection.  NEW YORK STATE COMMISSION NO.	he undersigned, holding a valid com	Columbia Passed by the National Scent o	of Solias and Pressure Vessel Insperiors and the state of
tion III. Each part listed has been authorized for stamping on the date shown above.  signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concoming the equiportion of this data report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injustry damage or loss of any kind arising from or connected with this inspection.  NEW YORK STATE COMMISSION NO.	of these lorge alone and	mission issued by the National Sound o	of Boller and Pressure Vessel Inspectors and the state or prinsurance
signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the equiportion of this data report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injustry damage or loss of any kind arising from or connected with this inspection.  NEW YORK STATE COMMISSION NO.	Boston, Mass. have inspired	mission issued by the National Source of played by Commercial Union Incided these literis described in this date	of Boller and Pressure Vessel Inspectors and the state or pristrance  a report on5/5/4/0snd state that to
critical in this data report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injuriently damage or loss of any kind arising from or connected with this inspection.  NEW YORK STATE COMMISSION NO.	Boston, Mass, have inspired and belief, the t	mission issued by the National Source of ployed by Commercial Union I will their lights described in this data conflicted Holder has fabricated these	of Boller and Pressure Vessel Inspectors and the state or prisurcance  a report on
party demage or loss of any kind arising from or connected with this inspection.  NEW YORK STATE COMMISSION NO.	Boston, Mass, have inspired and belief, the toom the Each part listed has been a	mission issued by the National Scend o ployed by Commercial Union I little these Hains described in this data conflicted Holder has fabricated these suthorized for stamping on the date should be should be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen to be seen	of Boller and Pressure Vessel Inspectors and the state or pressure of Sand state that to parts or appartunences in accordance with the ASME Commissions.
REW YORK STATE COMMISSION NO.	BOSTOR, MASS, have inspired and belief, the to the flack part listed has been a signing this certificate, neither the	mission issued by the National Board of ployed by Commercial Union This date of these Hains described in this date of the Hains of the date should be completely as the date should be completely on the date should be completely on the date should be completely on the date should be completely on the date should be completely on the date should be completely on the date should be completely on the date should be completely on the date should be completely on the date should be completely on the date should be completely on the date should be completely on the date should be completely on the date should be completely on the date should be completely on the date of the date of the date of the date of the date of the date of the date of the date of the date of the date of the date of the date of the date of the date of the date of the date of the date of the date of the date of the date of the date of the date of the date of the date of the date of the date of the date of the date of the date of the date of the date of the date of the date of the date of the date of the date of the date of the date of the date of the date of the date of the date of the date of the date of the date of the date of the date of the date of the date of the date of the date of the date of the date of the date of the date of the date of the date of the date of the date of the date of the date of the date of the date of the date of the date of the date of the date of the date of the date of the date of the date of the date of the date of the date of the date of the date of the date of the date of the date of the date of the date of the date of the date of the date of the date of the date of the date of the date of the date of the date of the date of the date of the date of the date of the date of the date of the date of the date of the date of the date of the date of the date of the date of the date of the date of the date of the date of the date of the date of the date of the date of the date of the date of the date of the date of the dat	of Boller and Pressure Vessel Inspectors and the state or particular.  B report on
5   5   Gle signed:	BOSTOTI, MASS. have inspired and belief, the catton III. Each part listed has been a signing this certificate, neither the cattod in this data report. Furtherm	mission issued by the National Board of ployed by Commercial Union The Carlina described in this data carlificate Holder has fabricated these sutherized for stamping on the date she inspector nor his employer makes any ore, neither the inspector nor his employer.	of Boller and Pressure Vessel Inspectors and the state or pressure or 555 and state that to parte or expectonances in accordance with the ASME Colomn above.  Warranty, expressed or implied, concerning the equipment shall be liable in any manner. For any personal interesting the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the
Committee Constitution of the Constitution of	Boston, Mass, have inspired and belief, the called the been a signing this certificate, neither the called in this data report. Furtherm	mission issued by the National Board of ployed by Commercial Union The Carlina described in this data carlificate Holder has fabricated these sutherized for stamping on the date she inspector nor his employer makes any ore, neither the inspector nor his employer.	of Boller and Pressure Vessel Inspectors and the state or pressure or Sand state that to parte or experiences in accordance with the ASME Colomn above.  If warranty, expressed or implied, concerning the equipment over shall be liable in any manner for any personal injury action.
	Boston, Mass, have inspired and belief, the Committee and belief, the Committee and belief, the Committee and belief, the Committee and belief, the Committee and belief, the Committee and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and belief and	mission issued by the National Board of ployed by Commercial Union The Carlina described in this data carlificate Holder has fabricated these sutherized for stamping on the date she inspector nor his employer makes any ore, neither the inspector nor his employer.	of Boller and Pressure Vessel Inspectors and the state or principle a report on
	Boston, Mass, have inspired and belief, the Caron Millian Boston and belief, the Caron Millian Boston and belief, the Caron Millian Boston and Belief, the Caron Millian Boston and Belief Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Bost	mission issued by the National Board of ployed by Commercial Union The Carlina described in this data carlificate Holder has fabricated these sutherized for stamping on the date she inspector nor his employer makes any ore, neither the inspector nor his employer.	of Boller and Pressure Vessel Inspectors and the state or pressure or Sand state that to parte or experiences in accordance with the ASME Colomn above.  If warranty, expressed or implied, concerning the equipment over shall be liable in any manner for any personal injury action.
	Boston, Mass, have inspired and belief, the Caron Millian Boston and belief, the Caron Millian Boston and belief, the Caron Millian Boston and Belief, the Caron Millian Boston and Belief Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Boston Bost	mission issued by the National Board of ployed by Commercial Union The Carlina described in this data carlificate Holder has fabricated these sutherized for stamping on the date she inspector nor his employer makes any ore, neither the inspector nor his employer.	of Boller and Pressure Vessel Inspectors and the state or insurance a report on
	Boston, Mass, have inspired and belief, the called the been a signing this certificate, neither the called in this data report. Furtherm	mission issued by the National Board of ployed by Commercial Union The Carlina described in this data carlificate Holder has fabricated these sutherized for stamping on the date she inspector nor his employer makes any ore, neither the inspector nor his employer.	of Boller and Pressure Vessel Inspectors and the state or principle a report on
The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	Boston, Mass, have inspired and belief, the catton III. Each part listed has been a signing this certificate, neither the catter in this data report. Furtherm	mission issued by the National Board of ployed by Commercial Union The Carlina described in this data carlificate Holder has fabricated these sutherized for stamping on the date she inspector nor his employer makes any ore, neither the inspector nor his employer.	of Boller and Pressure Vessel Inspectors and the state or principle a report on
The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	BOSTOTI, MASS. have inspired and belief, the catton III. Each part listed has been a signing this certificate, neither the cattod in this data report. Furtherm	mission issued by the National Board of ployed by Commercial Union The Carlina described in this data carlificate Holder has fabricated these sutherized for stamping on the date she inspector nor his employer makes any ore, neither the inspector nor his employer.	of Boller and Pressure Vessel Inspectors and the state or principle a report on
Acts ye am max a	BOSTOTI, MASS. have inspired and belief, the catton III. Each part listed has been a signing this certificate, neither the cattod in this data report. Furtherm	mission issued by the National Board of ployed by Commercial Union The Carlina described in this data carlificate Holder has fabricated these sutherized for stamping on the date she inspector nor his employer makes any ore, neither the inspector nor his employer.	of Boller and Pressure Vessel Inspectors and the state or principle a report on
9 4 4	BOSTOTI, MASS. have inspired and belief, the catton III. Each part listed has been a signing this certificate, neither the cattod in this data report. Furtherm	mission issued by the National Board of ployed by Commercial Union The Carlina described in this data carlificate Holder has fabricated these sutherized for stamping on the date she inspector nor his employer makes any ore, neither the inspector nor his employer.	of Boller and Pressure Vessel Inspectors and the state or principle a report on
	BOSTOTI, MASS. have inspired and belief, the catton III. Each part listed has been a signing this certificate, neither the cattod in this data report. Furtherm	mission issued by the National Board of ployed by Commercial Union The Carlina described in this data carlificate Holder has fabricated these sutherized for stamping on the date she inspector nor his employer makes any ore, neither the inspector nor his employer.	of Boller and Pressure Vessel Inspectors and the state or principle a report on
	Boston, Mass, have inspired and belief, the Committee part listed has been a lighing this certificate, neither the cather in the light of in this data report. Furtherm	mission issued by the National Board of ployed by Commercial Union The Carlina described in this data carlificate Holder has fabricated these sutherized for stamping on the date she inspector nor his employer makes any ore, neither the inspector nor his employer.	of Boller and Pressure Vessel Inspectors and the state or INSURATICE  a report on

N

FOR IN Commission





## FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

Owner: Washington Public Power Supply System (WPPSS)
 Address: 3000 George Washington Way, Richland, WA

Date: 8/20/90 Sheet: 1 of 1 Unit: WNP-2

- 2. Plant: WPPSS Nuclear Power Plant (WNP)
  - Address: Hanford, Benton County, WA
- 3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA
  - (b) Repair Organization P.O. No., Job No., etc.: WPPSS
- 4. Identification of System: Process Sample Radioactive (PSR) System
- 5. (a) Applicable Construction Code ASME Section III: 1974 Edition with Winter 1975 Addenda, Code Case: None
  - (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
- 6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
PSR-V-X77A/4	Target Rock	2	N/A	N/A	1982	Repair/ Replacement	Yes, Code Class 1

- 7. Description of Work: Performed work on valve PSR-V-X77A/4. The work was performed as follows
  - 1) Cut and removed support material to facilitate work on the valve
  - 2) Cut body to bonnet seal weld
  - 3) Removed valve internals for troubleshooting
  - 4) Reinstalled valve internals and installed new replacement disc
  - 5) Installed bonnet into valve body and torqued it to the required torque value
  - 6) Made body to bonnet seal weld
  - 7) Performed PT examination on the final seal weld. PT examination results acceptable
  - 8) Reinstalled support material and made required welds
  - 9) Performed MT examination on the final welds. MT examination results acceptable

	Washington	PUBLIC POXER
S	SUPPLY	SYSTEM

	FORM NIS-2 (Back)
8.	Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other None Test Pressure: Psig Test Temperature: °F Component Design Pressure: Psig Temperature: °F
9.	Remarks: See attached N-2 Code Data Report for the new replacement disc Serial No 1353
r	
	CERTIFICATE OF COMPLIANCE
	We certify that the statements made in the report are correct and this repair/replacement conforms to the rules of the ASME Code, Section XI.  Type Code Symbol Stamp: Not applicable  Certificate Authorization No.: Not applicable  Expiration Date: Not Applicable  Prepared by  Signed by  Plant Technical Manager  Date  9-21-96
- l	
	CERTIFICATE OF INSERVICE INSPECTION
	I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 4/26/90 to 8/21/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.  By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.  Commissions 9566 W  National Board, State, and Endorsements
	Date 8/21/90

# FORM N-2 NO PT CERTIFICATE HOLDERS' DATA PORT FOR IDENTICAL Lucip Ends

	Not 7	To Exceed One Day's	Production		Pg 1 of
1. Manufactured and can	med by Tarret Rock	Corp. 1966E Bro	adhollow Rd	E. Farmingda	le, NY 11
2. Manufactured for	Washington Public	Power Supply Syst	em, Richland,	•	×8
3. Incetion of installation	wnP-2, Richland 1	WA, 99352	· · · · · · · · · · · · · · · · · · ·		
	• •	The second second	and pidrood)		
4. Type 202539-1	Rev. C SA-564 (	R 630 140,000	Min.	N/A	1986
5. ASME Code, Section	1071	W 1975	Mana (City)	· , ,.	N/A
6. Fabricated in accords	ence with Const. Spec. (Div.	******	RevisionN/		N/A
	Parts for a complet		y (Main Disc.	82M-001)	,
		•			
<del></del>			<del></del>	······································	<del></del>

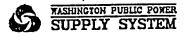
Part or Appurtenance Serial Number	National Board No. In Numerical Order	Part or Appurtenance Serial Number	National Sound Number In Numerical Order
1351	N/A	(25)	
1351 1353	N/A	(26)	*,3807.^
1355	N/A		· · · · · · · · · · · · · · · · · · ·
1364	N/A	(28)	# T
برسيس سيميس المساعد		(30)	+C12234
		(31)	<b>*</b> ***
		(32)	100 A
		(33)	Self
		(34)	, view
)		(35)	700
		(36)	23
		(37)	Arriva Arriva
		(38)	7.3
		(39)	
		(40)	
)		(41)	
		1 1 2 4 6 5	
·		(40)	•
)		1 1 1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	
) <del></del>		(45)	
		(46)	
) ————————————————————————————————————		(47)	
)	<del></del>	(48)	
) <del></del>	····	(49)	
)~		(50)	

the by symme.

(6/96)-1

THE RESERVE OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF

This form (£00040) may be obtained from the Order Dept., ASME, 346 E. 47th St., New York, N.Y. 10017.



#### FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

1. Owner: Washington Public Power Supply System (WPPSS) Address: 3000 George Washington Way, Richland, WA

Date: 8/6/90 Sheet: 1 of 1

2. Plant: WPPSS Nuclear Power Plant (WNP)

Unit: WNP-2

Address: Hanford, Benton County, WA

- 3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA
  - (b) Repair Organization P.O. No., Job No., etc.: WPPSS
- 4. Identification of System: Process Instrument (PI) System
- 5. (a) Applicable Construction Code ASME Section III: 1974 Edition with Winter 1975 Addenda, Code Case: None
  - (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
- 6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
PI-VX-265	Target Rock	10	N/A	N/A	1980	Repair And Replacement	Yes, Code Class 2

- 7. Description of Work: Repaired valve body to bonnet seal weld areas and replaced main disc in valve PI-VX-265. The repair/replacement work was performed as follows:
  - 1) Cut valve body to bonnet seal weld
  - 2) Prepped valve body seal weld surface for rewelding
  - 3) Weld built up the valve bonnet. Machined the weld built up area
  - 4) Performed PT examination on prepped area of the body and machined area of the bonnet. PT examination results acceptable
  - 5) Machined spacer ring for valve body to bonnet joint. Performed PT examination on the machined surface. PT examination results
  - 6) Installed new replacement main disc in the valve
  - 7) Installed spacer ring and bonnet in the valve body. Made required welds
  - 8) Performed PT examination on the final welds. PT examination results acceptable

(8)	XASHINGTON I	PUBLIC POWER
	SUPPLY	SYSTEM

	FORM NIS-2 (Back)
8.	Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other X None Test Pressure: Psig Test Temperature: OF Component Design Pressure: Psig Temperature: OF
9.	Remarks: See attached N-2 Code Data Report for new replacement main disc Serial No. 760
	CERTIFICATE OF COMPLIANCE
	We certify that the statements made in this Owner's Report are correct and this repair/replacement conforms to the rules of the ASME Code, Section XI.  Type Code Symbol Stamp: Not applicable  Certificate Authorization No.: Not applicable  Expiration Date: Not Applicable  Prepared by  Signed by  Plant Technical Manager
	Date
	CERTIFICATE OF INSERVICE INSPECTION
	I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 5/3/90 to 8/9/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.  By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
	Commissions 9556 W Visspector's Signature National Board, State, and Endorsements
	Date 8/8/90

Pores A	CERTIFICATE 1904 RIFELEAR PARTE	POTEN PAYA BE		こかん・こ メルロー・ス・
PUISE (N	CONTURNATE IN			LAN - No. 2-
and it		ART ART M	eroki fon den il Blancine	Could's
	equired by the Provide	tope of the CASE	E Cada, Section III	
	Dat To lance	Com Day's Pres		Ps
ulectured and certified by Tax				minodala WY 11
			(A) (A) (A) (A) (A) (A)	
uracayed for Washingto	n Public Power 5	mooly dystes,	Richland, MA	
		treets and states of		44"
tion of installation Waishing	ton Muclear Plan	£ 2, Michiano	i, YA	·
		Pont on		3000
202337-1 Rev. E S	A-479 310	.75 ASL	N/A	1989
			2	N/A
lE Code, Section III:	1974	¥ 75	Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie	Care Care res
icated in accordance with Const	Same Min 2 and 1	N/A	H/A	Dete N/A
Spare Parts for	r a completed va			
thickness (in.) N/A Mir n applicable, Cartificate Holders'				th overall (if & is.)
			h	
_ 1	**			••
Part or Appurtanence	National Reset No.	l f	or Appurtmenance	Nghanai Read Marker
Part or Appurtanence Senal Number	Board No.	l f	or Appurtenance Secret Humber	Heneral Board Municar in Manageral Codes
		l f		Hetinand Beard Humber st Munancyl Order
Senal Number	Board No. in Numerical Order N/A	l f		
779 816	Board No. in Numerical Order  N/A  N/A	-		
779 816 788	Board No. in Numerical Order  N/A  N/A  N/A  N/A	. (26)		
779 816 788 824	Board No. in Numerical Order  N/A  N/A  N/A  N/A  N/A	(26) (27) (28) (29)		
779 816 788 824 782	Board No. in Numerical Order  N/A  N/A  N/A  N/A  N/A  N/A  N/A	(26) (27) (28) (29) (150)		
779 816 788 824 782 760	Board No. in Numerical Order  N/A  N/A  N/A  N/A  N/A  N/A  N/A  N/	(26) (27) (28) (29) (30) (31)		
779 916 788 824 782 760 762	Board No. in Numerical Order  N/A  N/A  N/A  N/A  N/A  N/A  N/A  N/	(26)	Sensi Mumber	
779 816 788 824 782 760 762 N/A	Board No. in Numerical Order  N/A  N/A  N/A  N/A  N/A  N/A  N/A  N/	(26)	Sensi Mumber	
779 816 788 824 782 760 762 N/A	Board No. in Numerical Order  N/A  N/A  N/A  N/A  N/A  N/A  N/A  N/	(26)	Sensi Number	
779 816 788 824 782 760 762 N/A	Board No. in Numerical Order  N/A  N/A  N/A  N/A  N/A  N/A  N/A  N/	(26)	Sensi Mumber	
779 816 788 824 782 760 762 N/A	Board No. in Numerical Order  N/A  N/A  N/A  N/A  N/A  N/A  N/A  N/	(26)	Sensi Number	
779 816 788 824 782 760 762 N/A	Board No. in Numerical Order  N/A  N/A  N/A  N/A  N/A  N/A  N/A  N/	(26)	Sensi Number	
779 816 788 824 782 760 762 N/A	Board No. in Numerical Order  N/A  N/A  N/A  N/A  N/A  N/A  N/A  N/	(26)	Sensi Mumber	
779 816 788 824 782 760 762 N/A	Board No. in Numerical Order  N/A  N/A  N/A  N/A  N/A  N/A  N/A  N/	(26)	Secret Mumber	
779 816 788 824 782 760 762 N/A	Board No. in Numerical Order  N/A  N/A  N/A  N/A  N/A  N/A  N/A  N/	(26) (27) (28) (29) (30) (31) (32) (33) (34) (34) (36) (36) (37) (39) (39)	Secol Mumber	

N/A 165 H/A 10. Design pressure

(44)

(45)

(46)

1471 .

1440

1481

150

1191 .

1201 .

(21) .

(22) .

(23) .

(24) \_

(25)

NUCLEAR PARTS AND APPURTENANCES. it, in revenuence or the ASME Code Section III Not 19 Exceed One Day's Production Pg. to L. farmingdale, NY 11735 THELLIPIN .... **::**. CONTRICATE OF SHOP COMPLIANCE Part We cartify that the attenments made in this report are a conforms to the rules of construction of the ASME Code, Section M. 12-9-89 1948 NPT Carolicate of Authorization No. Daida Target Rock Corporation E. Bajacha Q.A. Amnager CONTIFICATE OF SHOP INSPECTION I, the undersigned, holding a valid comm New York of Boston, Xass. , have inspected these items described in this Osta Report on best of my inemissing and belief, the Cartiflosta Helder has fabricated these parts or apparent M. Each part field has been suthered for stamping on the date shown above. By signing this constitute, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the equation New York State Commission No. 2288

PERMISSIFA REPORT FOR IDENTICAL

CERTIFICATE HOS

816 788,824,782,760,762

Quidip Eur's



#### FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

1. Owner: Washington Public Power Supply System (WPPSS) Address: 3000 George Washington Way, Richland, WA

Date: 9/18/90 Sheet: 1 of 1

2. Plant: WPPSS Nuclear Power Plant (WNP)

Unit: WNP-2

Address: Hanford, Benton County, WA

- 3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA
  - (b) Repair Organization P.O. No., Job No., etc.: WPPSS
- 4. Identification of System: High Pressure Core Spray (HPCS) System
- 5. (a) Applicable Construction Code ASME Section III: 1971 Edition with Summer 1971 Addenda, Code Case: None
  - (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
- 6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
HPCS-V-23	Anchor Darling	2N-236	N/A	N/A	1974	Repair	Yes, Code Class 2

7. Description of Work: 'Made disc to disc nut fillet weld. Performed PT examination on the final weld. PT examination results acceptable. Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during pressure test

	WASHINGTON P	UBLIC POWER
G	SUPPLY	SYSTEM

FORM NIS-2 (Back)
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure X Other Test Pressure: 630 Psig Test Temperature: 75 °F Component Design Pressure: 2160 Psig Temperature: 100 °F
9. Remarks: None
CERTIFICATE OF COMPLIANCE
We certify that the statements made in the report are correct and this repair conforms to the rules of the ASME
Code, Section XI.  Type Code Symbol Stamp: Not applicable
Certificate Authorization No.: Not applicable
Expiration Date: Not Applicable
Prepared by Cuianh Sup 5 Signed by Signed by
Plant Technical Manager
Date $\frac{9/18/90.}{}$ Date $\frac{9-18-90}{}$
. L
CERTIFICATE OF INSERVICE INSPECTION
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel
Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory
Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 4/30/90 to 5/26/90 and state to the best of my knowledge and belief, the
Owner has performed examinations and taken corrective measures described in this Owner's Report in
accordance with the requirements of the ASME Code, Section XI.
By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither
the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a
loss of any kind arising from or connected with this inspection.
Any Uhoo Falt Commissions 9556 W
Commissions 9556 W National Board, State, and Endorsements
Date 9/19/90 Commissions 9556 W National Board, State, and Endorsements



#### FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

1. Owner: Washington Public Power Supply System (WPPSS) Address: 3000 George Washington Way, Richland, WA

Date: 6/1/90 Sheet: 1 of 1

2. Plant: WPPSS Nuclear Power Plant (WNP)

Unit: WNP-2

Address: Hanford, Benton County, WA

- 3.(a) Work Performed by: WPPSS,3000 George Washington Way, Richland, WA
  - (b) Repair Organization P.O. No., Job No., etc.: WPPSS
- 4. Identification of System: Reactor Feedwater (RFW) System
- 5. (a) Applicable Construction Code ASME Section III: 1971 Edition with Winter 1973 Addenda, Code Case: None
  - (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
- 6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
RFW(1)-4A	WPPSS	RFW(1)-4A-P1	N/A	N/A	1983	Replacement	Yes, Code Class NF(1)
RFW(1)-4B	WPPSS	RFW(1)-4B-P1	N/A	N/A	1983	Replacement	Yes, Code Class NF(1)

- 7. Description of Work: Replaced existing snubbers with rigid struts. The replacement work was performed as follows
  - 1) Removed existing snubbers
  - 2) Installed rigid struts
  - 3) Performed Preservice Inspections (PSI). PSI results acceptable

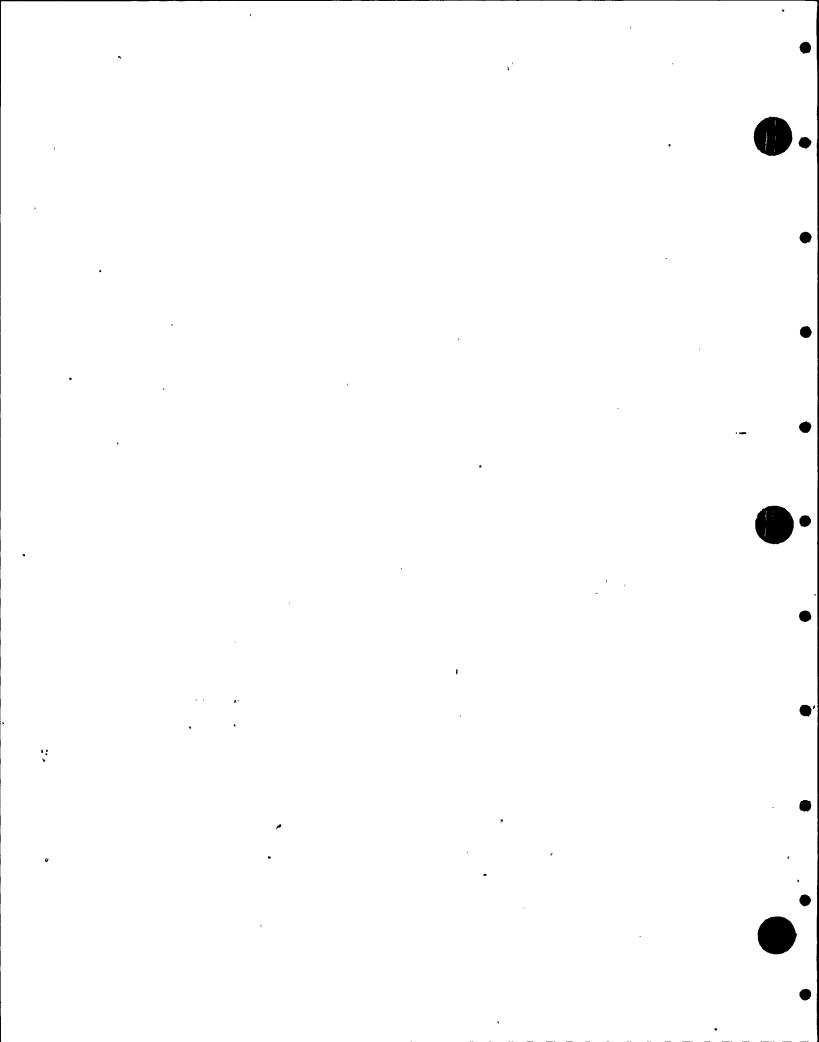
•		
F	ORM NIS-2 (Bac	k)
8. Tests Conducted: Hydrostatic Pneum Test Pressure: Psig Component Design Pressure	• <del></del>	Operating Pressure Other X None Test Temperature: °F Temperature: °F
9. Remarks: See attached NF-2 Code Data Reports for the Support No Serial No RFW-148 NA-2765-005-1 RFW-164 NA-2765-005-2	the following	•
CERTI	FICATE OF COMPI	LIANCE
We certify that the statements made in the read ASME Code, Section XI.  Type Code Symbol Stamp: Not applicable Certificate Authorization No.: Not applicable Expiration Date: Not Applicable  Prepared by Luap Such	eport are correct and	this replacement conforms to the rules of the
Date <u>6/1/90</u>	Date _	6-1-90
CERTIFICAT	TE OF INSERVICE	INSPECTION .
Inspectors and the State of Washington and of Mutual System) of Norwood, Massachusetts during the period 4/23/96 to 6/ Owner has performed examinations and take accordance with the requirements of the ASN	have inspected the confidence inspected the confidence and state in corrective measure ME Code, Section XI ector nor his employed in any manner for any manner for any manner for any manner for any manner for any manner for any manner for any manner for any manner for any manner for any manner for any manner for any manner for any manner for any manner for any manner for any manner for any manner for any manner for any manner for any manner for any manner for any manner for any manner for any manner for any manner for any manner for any manner for any manner for any manner for any manner for any manner for any manner for any manner for any manner for any manner for any manner for any manner for any manner for any manner for any manner for any manner for any manner for any manner for any manner for any manner for any manner for any manner for any manner for any manner for any manner for any manner for any manner for any manner for any manner for any manner for any manner for any manner for any manner for any manner for any manner for any manner for any manner for any manner for any manner for any manner for any manner for any manner for any manner for any manner for any manner for any manner for any manner for any manner for any manner for any manner for any manner for any manner for any manner for any manner for any manner for any manner for any manner for any manner for any manner for any manner for any manner for any manner for any manner for any manner for any manner for any manner for any manner for any manner for any manner for any manner for any manner for any manner for any manner for any manner for any manner for any manner for any manner for any manner for any manner for any manner for any manner for any manner for any manner for any manner for any manner for any manner for any manner for any manner for any manner for any manner for any manner for any manner for any manner for any manner for any manner for any manner for any manner for any manner for any manner for any manner for any manner for any mann	omponents described in the Owner's Report to the best of my knowledge and belief, the is described in this Owner's Report in er makes any warranty, expressed or implied, a this Owner's Report. Furthermore, neither
Am Sbega Total Inspector's Signature	Commissions	9556 W National Board, State, and Endorsements
Inspector's Signature  Date 6/1/90		•

FORM NF-2 NPT CERTIFICA" HOLDERS' PARTIAL DATA REPORT FOR PARTS FOR COMPONENT SUPPORTS

As Required C, the Provisions of the ASME Code Rules, S. Jan III, Division 1

	As Required C, the Provisions of the ASME Code Rules, S. 7) III, Division 1 PLAN No. 2-0	591
_	V. I of the	G.
	[Name and address of NPT Certificate Holder]	73:19
2.	Ashulactured for WASHINGTON PUBLIC POWER SUPPLY SYSTEM, P.O. BOX 968, RICHLAND, WA 99352	
7	WNP-2 OPS WHS COMPLEX, WHS#1 N. PWR. PLANT_LOOP, RICHLAND, WA 99352	
J.	, oction of instance (in ) and a 110 masses, a superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the superior of the	
4.	(a) (b) (c) (d) (ei (f) (g) . Part Canadian Part National	
	Serial Registration Orawing Description Board Year	
	No. No. No. of Part Class No. Eurit  (1) * N/A NPS-130 MODIFIED 1 N/A 1990	
	DCV 1 CHAV CTOUT	
	ACCENDLY	
	CDM 24N CO	
	(5) *NA-2765-005-1.	
	(7) *NA-2765-005-2	
	(8) VERIFIED & ACCEPTED D'T MUSICE  (9) VERIFIED & ACCEPTED 5-1-90	
	P. Inspector Oate	
	1101 IFVEL TUE R.I. IIIS PORTE	
	CERTIFICATE OF COMPLIANCE	
	certify that the statements made in this report are correct and that these component support parts conform to the rules of construc-	
	of the ASME Code for Nuclear Power Plant Components, Section III, Division 1, Edition 1971 Addenda WINTER 1973	-
С	le Case no. N247 (Date)	
0	. APRIL 26 19 90 Segned NPS INDUSTRIES, INC. SANDY REYNOLDS	, ,
6	ASME Certificate of Authorization No. N-2689 to use the NPT Symbol expires JULY 12. 1991	
L	(NPT) (Oate)	
	CERTIFICATE OF SHOP INSPECTION	
ı,	ne undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or	
P	rince of TEXAS and employed by COMMERCIAL UNION of BOSTON. MASSACHUSETTS	
-	• have inspected the parts for the component supports described in this Data Report on	
C	ponent support parts in accordance with the ASME Code for Nuclear Power Plant Components.	
8	signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the com-	1
Þ	ent supports described in this Data Report. Furthermore neither the Inspector nor his employer shall be liable	ĺ
ir	ny manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.	
۵	. 4 fe26 /70	
	and Xane of Fruel Commission TEX823	
	(Nat'l Board, State, Province, and No.)	
		1

<sup>&</sup>quot;Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8½ in. x 11 in.. (2) information on items 1-4 on this Data Report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at the top of this form.



## FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

Owner: Washington Public Power Supply System (WPPSS)
 Address: 3000 George Washington Way, Richland, WA

Date: 9/18/90 Sheet: 1 of 1 Unit: WNP-2

2. Plant: WPPSS Nuclear Power Plant (WNP)

Address: Hanford, Benton County, WA

- 3.(a) Work Performed by: Bechtel Construction, Incorporation
  - (b) Repair Organization P.O. No., Job No., etc.: PO Box 600, Richland, WA
- 4. Identification of System: Residual Heat Removal (RHR) System
- 5. (a) Applicable Construction Code ASME Section III: 71/77 Edition with Summer 71/Winter 77 Addenda, Code Case: None
  - (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
- 6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
RHR-HX-2B	A/S&K	79284	599	N/A	1980	Replacement	Yes, Code Class 2

- 7. Description of Work: Replaced piping/tubing for RHR-HX-2B seal cooler outlet (tube side). The replacement work was performed as follows
  - 1) Cut and removed section of existing tubing
  - 2) Installed new replacement pipe and tubing
  - 3) Made required socket welds
  - 4) Performed PT examination on the final socket welds. PT examination results acceptable
  - 5) Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during pressure test

A/S&K = Ametek/Schutte and Koerting

				•	
r		SUPP	ON PUBLIC POR	M	PLAN NO. 2-0592
		FORM P	IIS-2 (Back	K)	
8. Tests Conduc	Test Pressure:	Pneumatic 130 Psig	7	Operating Pressure Fest Temperature: 70 Femperature: 200 °F	
9. Remarks: No	16				-
J. Komund					
	· · · · · · · · · · · · · · · · · · ·	CERTIFICATE	OF COMPL	JANCE	•
ASME Code	, Section XI.		correct and	this replacement confo	rms to the rules of the
Certificate	Symbol Stamp: Not a Authorization No.: N	ppiicavie lot anolicable			
	Date: Not Applicable	ior applicable	•		
Prepared by	17 0.	Eags	Signed by	Plant Technic	Ins.mm
Dote -	9/18/50		Date _	9-18-90	-

#### CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period  $\frac{426|90|}{2690}$  to  $\frac{5|22|90|}{2690}$  and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

	bector not any embroder areas on age		Ferror-many-ny na Frank ny
loss-of	any kind arising from or connected	with this inspection.	
	Dullbagartt	Commissions	9556W
	Inspector's Signature	<del></del>	National Board, State, and Endorsements
Date	9/18/90		

## FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

1. Owner: Washington Public Power Supply System (WPPSS)

Date: 6/1/90 Sheet: 1 of 1

Address: 3000 George Washington Way, Richland, WA

Sheet: 1 of 1 Unit: WNP-2

2. Plant: WPPSS Nuclear Power Plant (WNP)

Address: Hanford, Benton County, WA

3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA

(b) Repair Organization P.O. No., Job No., etc.: WPPSS

4. Identification of System: Process Instrument (PI) System

5. (a) Applicable Construction Code ASME Section III: 1974 Edition with Winter 1975 Addenda, Code Case: None

(b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
PI(1)-4S-X72f	JCI	PI(1)-4S-X72f	N/A	N/A	1983	Repair	Yes, Code Class 2

- 7. Description of Work: Removed and reinstalled valve PI-EFC-X72f. The work was performed as follows
  - 1) Cut existing socket welds
  - 2) Prepped valve socket ends. Performed PT examination on the prepped socket ends. Pt examination results acceptable
  - 3) Reinstalled valve and made required socket welds
  - 4) Performed PT examination on the final socket welds. PT examination results acceptable

FORM NIS-2 (Back)
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other X North Test Pressure: Psig Test Temperature: °F  Component Design Pressure: 3600 Psig Temperature: 100 °F
9. Remarks: None
CERTIFICATE OF COMPLIANCE .
We certify that the statements made in the report are correct and this repair conforms to the rules of the ASME Code, Section XI.  Type Code Symbol Stamp: Not applicable Certificate Authorization No.: Not applicable Expiration Date: Not Applicable  Prepared by    Code
CERTIFICATE OF INSERVICE INSPECTION
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 5/0//90 to 6/1/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.  By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.  Commissions 95600  National Board, State, and Endorsements
Date



#### FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

1. Owner: Washington Public Power Supply System (WPPSS) Address: 3000 George Washington Way, Richland, WA

Date: 6/1/90 Sheet: 1 of 1

2. Plant: WPPSS Nuclear Power Plant (WNP)

Unit: WNP-2

Address: Hanford, Benton County, WA

3.(a) Work Performed by: Bechtel Construction, Incorporation

(b) Repair Organization P.O. No., Job No., etc.: PO Box 600, Richland, WA

4. Identification of System: Residual Heat Removal (RHR) System

5. (a) Applicable Construction Code ASME Section III: 1971 Edition with Summer 1972 Addenda, Code Case: None

(b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
RHR-HX-1B	Delta Southern Co	35009-74-2	3490	N/A	1974	Repair <sub>.</sub>	Yes, Code Class 2

- 7. Description of Work: Plugged tubes in RHR-HX-1B heat exchanger. The repair work was performed as follows
  - 1) Machined the tube plugs to the required dimensions
  - 2) Installed tube plugs and made required seal welds
  - 3) Performed PT examination on the final seal welds. PT examination results acceptable

2	XVZENATOR	श्याय श्राच्य
	SUPPLY	PUBLIC POSSI SYSTEM

SUPPLY SYSTEM	PLAN NO. 2-0594
FORM NIS-2 (Back)	
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating F  Test Pressure: Psig Test Temper  Component Design Pressure: Psig Temperature	rature: °F
9. Remarks: None	
•	•
CERTIFICATE OF COMPLIANCE	
We certify that the statements made in the report are correct and this repair co Code, Section XI.  Type Code Symbol Stamp: Not applicable Certificate Authorization No.: Not applicable Expiration Date: Not Applicable  Prepared by Ludip Luch, Signed by Plan  Date 6-1-9	Scam. nt Technical Manager
CERTIFICATE OF INSERVICE INSPECTION	ON
I, the undersigned, holding a valid commission issued by the National Bol Inspectors and the State of Washington and employed by Arkwright Mutual I Mutual System) of Norwood, Massachusetts have inspected the components of during the period 5/3/90 to 5/28/90 and state to the best Owner has performed examinations and taken corrective measures described accordance with the requirements of the ASME Code, Section XI.  By signing this certificate neither the Inspector nor his employer makes an concerning the examinations and corrective measures described in this Owner the inspector nor his employer shall be liable in any manner for any personal loss of any kind arising from or connected with this inspection.	ard of Boiler and Pressure Vessel nsurance Company (Factory described in the Owner's Report to of my knowledge and belief, the in this Owner's Report in any warranty, expressed or implied, r's Report. Furthermore, neither injury or property damage or a



## FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

1. Owner: Washington Public Power Supply System (WPPSS)
Address: 3000 George Washington Way, Richland, WA

Date: 5/29/90 Sheet: 1 of 1 Unit: WNP-2

Plant: WPPSS Nuclear Power Plant (WNP)
 Address: Hanford, Benton County, WA

3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA

(b) Repair Organization P.O. No., Job No., etc.: WPPSS

4. Identification of System: High Pressure Core Spray (HPCS) System

5. (a) Applicable Construction Code ASME Section III: 1971 Edition with Winter 1973 Addenda, Code Case: None

(b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
HPCS-V-84	Borg Warner	13371	N/A	N/A	1976	Replacement	Yes, Code Class 1

7. Description of Work: Replaced stem/disc assembly for valve HPCS-V-84. The replacement work was performed as follows:

1) Removed stem/disc assembly from spare valve Serial No 28701

2) Installed stem/disc assembly removed from spare valve Serial No 28701 in valve HPCS-V-84

		FLANNO. 2-033
	FORM NIS-2 (Bac	······································
8. Tests Conducted: Hydrostatic Pressure: Psig Component Design Pr	1	Operating Pressure Other X None Test Temperature: °F Temperature: °F
9. Remarks: None		
·		
	·	
· c	ERTIFICATE OF COMPI	LIANCE
We certify that the statements made in ASME Code, Section XI.  Type Code Symbol Stamp: Not applicable Certificate Authorization No.: Not applic Expiration Date: Not Applicable	:	this replacement conforms to the rules of the
Prepared by Quaip &	Signed by	Plant Technical Manager
Date 5/30/90	Date _	5.30-90
CERTI	FICATE OF INSERVICE	INSPECTION
Inspectors and the State of Washington Mutual System) of Norwood, Massachi during the period <u>S/14/40</u> to Owner has performed examinations an accordance with the requirements of the	a and employed by Arkwrig usetts have inspected the co <u>S/30/90</u> and state id taken corrective measure as ASME Code, Section XI	·
concerning the examinations and corre	ctive measures described in liable in any manner for a	er makes any warranty, expressed or implied, a this Owner's Report. Furthermore, neither my personal injury or property damage or a
Am Howard	Commissions	9556 W
Inspector's Signature  Date 5/30/00		National Board, State, and Endorsements
Date <u>5/30/90</u>		



## FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

Owner: Washington Public Power Supply System (WPPSS)
 Address: 3000 George Washington Way, Richland, WA

Date: 5/23/90 Sheet: 1 of 1

2. Plant: WPPSS Nuclear Power Plant (WNP)

Unit: WNP-2

A 11---- To the David Court WA

Address: Hanford, Benton County, WA

- 3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA
  - (b) Repair Organization P.O. No., Job No., etc.: WPPSS
- 4. Identification of System: Reactor Water Cleanup (RWCU) System
- 5. (a) Applicable Construction Code ASME Section III: 1971 Edition with Summer 1973 Addenda, Code Case: None
  - (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
- 6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.,	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
RWCU-V-1	Velan	0039	N/A	N/A	1976	Replacement	Yes, Code Class 1

- 7. Description of Work: Replaced valve RWCU-V-1 leak off connection pipe plug. The replacement work was performed as follows:
  - 1) Machined pipe plug to the required dimensions
  - 2) Performed PT examination on the machined surfaces to upgrade the material from ASME Section III, Code Class 2 to ASME Section
  - III, Code Class 1. PT examination results acceptable
  - 3) Installed pipe plug and made required weld
  - 4) Performed PT examination on the final weld. PT examination results acceptable

	FORM NIS-2 (Back)
8.	Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other X None Test Pressure: Psig Test Temperature: °F Component Design Pressure: Psig Temperature: °F
9.	Remarks: None
	•
	CERTIFICATE OF COMPLIANCE
	We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.  Type Code Symbol Stamp: Not applicable  Certificate Authorization No.: Not applicable  Expiration Date: Not Applicable
	Prepared by Lucaip Rus Signed by Plant Technical Manager
	Date
	CERTIFICATE OF INSERVICE INSPECTION
	I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 5/1/90 to 5/12/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.  By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.  Commissions 9556W
	Kispector's Signature National Board, State, and Endorsements
	Date <u>5/30/40</u>
- 1	



KAREHUTON PUBLIC POSTER SUPPLY SYSTEM

PLAN NO. 2-0597

#### FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

1. Owner: Washington Public Power Supply System (WPPSS) Address: 3000 George Washington Way, Richland, WA

Date: 6/1/90 Sheet: 1 of 1

2. Plant: WPPSS Nuclear Power Plant (WNP)

Unit: WNP-2

Address: Hanford, Benton County, WA

- 3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA
  - (b) Repair Organization P.O. No., Job No., etc.: WPPSS
- 4. Identification of System: Residual Heat Removal (RHR) System
- 5. (a) Applicable Construction Code ASME Section III: 1971 Edition with Summer 1972 Addenda, Code Case: None
  - (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
- 6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
RHR-V-24B	Anchor Darling	2N-381	N/A	N/A	1975	Replacement	Yes, Code Class 2

7. Description of Work: Installed new replacement pipe plug for valve RHR-V-24B bonnet leak off connection

FORM NIS-2 (Back)	
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other Component Design Pressure: Psig Test Temperature: °F  Component Design Pressure: Psig Temperature: °F	X None
9. Remarks: None	
v	
CERTIFICATE OF COMPLIANCE	
We certify that the statements made in the report are correct and this replacement conforms to the rules of ASME Code, Section XI.  Type Code Symbol Stamp: Not applicable  Certificate Authorization No.: Not applicable  Expiration Date: Not Applicable	of the
Prepared by Culary Sub Signed by Plant Technical Manager	
Date 6/1/90 Date 6-1-90	
CERTIFICATE OF INSERVICE INSPECTION	
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factor Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Insurance Company (Factor Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Insurance Company (Factor Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Insurance Company (Factor Mutual System) of Mutual System) of Massachusetts have inspected the components described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.  By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or it concerning the examinations and corrective measures described in this Owner's Report. Furthermore, the inspector nor his employer shall be liable in any manner for any personal injury or property damage loss of any kind arising from or connected with this inspection.	ory Report lief, the implied, neither
Aux Une Table Commissions 9556 W  /Inspector's Signature National Board, State, and Endorse	ements
Date 4/1/90 - National Board, State, and Endorse	



#### FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

1. Owner: Washington Public Power Supply System (WPPSS) Address: 3000 George Washington Way, Richland, WA

Date: 6/4/90 Sheet: 1 of 1

2. Plant: WPPSS Nuclear Power Plant (WNP)

Unit: WNP-2

Address: Hanford, Benton County, WA

3.(a) Work Performed by: WPPSS,3000 George Washington Way, Richland, WA

(b) Repair Organization P.O. No., Job No., etc.: WPPSS

4. Identification of System: Containment Instrument Air (CIA) System

5. (a) Applicable Construction Code ASME Section III: 1971 Edition with Winter 1973 Addenda, Code Case: None

(b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
CIA(3)-2	WPPSS	CIA(3)-2-P1	N/A	N/A	1983	Replacement	Yes, Code Class 2

7. Description of Work: Replaced nut for CIA-FLX-1K flanged joint

48	MARSON S	WHELE POREN
	SUPPLY	SYSTEM

#### PLAN NO. 2-0599 FORM NIS-2 (Back) Other X Pneumatic Nominal Operating Pressure 8. Tests Conducted: Hydrostatic Test Temperature: °F Test Pressure: Psig Temperature: oF Component Design Pressure: Psig 9. Remarks: None CERTIFICATE OF COMPLIANCE We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI. Type Code Symbol Stamp: Not applicable Certificate Authorization No.: Not applicable Expiration Date: Not Applicable Prepared by . Culait Sais Signed by 6-4-50 Date CERTIFICATE OF INSERVICE INSPECTION I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 5/23/90 to 6/5/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. Commissions National Board, State, and Endorsements Date

Date: 9/18/90

Sheet: 1 of 1

Unit: WNP-2



# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

1. Owner: Washington Public Power Supply System (WPPSS)

Address: 3000 George Washington Way, Richland, WA

2. Plant: WPPSS Nuclear Power Plant (WNP)

Address: Hanford, Benton County, WA

- 3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA
  - (b) Repair Organization P.O. No., Job No., etc.: WPPSS
- 4. Identification of System: Containment Supply Purge (CSP) System
- 5. (a) Applicable Construction Code ASME Section III: 1971 Edition with Winter 1973 Addenda, Code Case: None
  - (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
- 6. Identification of Components Repaired or Replaced and Replacement Components

	ame of nponent	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
CS	SP(1)-1A	WPPSS	CSP(1)-1A-P1	N/A	N/A	1983	Replacement	Yes, Code Class 2

7. Description of Work: Replaced one (1) stud and one (1) nut for valve CSP-V-2 inlet flange joint. Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during pressure test

968-22684 (9/87)

<b>A</b>	WASHINGTON	PUBLIC	POXER
S	SUPPLY		

	FORM NIS-2 (Back)						
8. ′	8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure X Other Test Pressure: atmospheric Test Temperature: ambient Component Design Pressure: 45 Psig Temperature: 340 °F						
9.	Remarks: None						
ſ							
	CERTIFICATE OF COMPLIANCE						
	We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.  Type Code Symbol Stamp: Not applicable Certificate Authorization No.: Not applicable Expiration Date: Not Applicable						
	Prepared by Ludip Subs Signed by Plant Technical Manager						
	Date 9/18/70 Date 9-15-50						
	CERTIFICATE OF INSERVICE INSPECTION						
	I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period $\frac{5/14/90}{1000}$ to $\frac{5/26/90}{1000}$ and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.  By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.  Commissions						
	Inspector's Signature Commissions 4350 CC National Board, State, and Endorsements						
	Date 9/18/90						



#### FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

Owner: Washington Public Power Supply System (WPPSS)
 Address: 3000 George Washington Way, Richland, WA

Date: 6/12/90 Sheet: 1 of 1 Unit: WNP-2

2. Plant: WPPSS Nuclear Power Plant (WNP)

Address: Hanford, Benton County, WA

- 3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA
  - (b) Repair Organization P.O. No., Job No., etc.: WPPSS
- 4. Identification of System: Containment Vessel, Penetration X-53
- 5. (a) Applicable Construction Code ASME Section III: 1971 Edition with Summer 1972 Addenda, Code Case: None
  - (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
- 6. Identification of Components Repaired or Replaced and Replacement Components

Name of Componer	1 .	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
Penet X-53	PDM	12764	790	N/A	1976	Repair	Yes, Code Class 2

7. Description of Work: Drilled and tapped holes in Containment Penetration X-53 square cut pipe end to install removeable (bolted) type debris screen

TISHOGICK F	THE POSTER
SUPPLY	SYSTEM

#### PLAN NO. 2-0604 FORM NIS-2 (Back) Other X None Pneumatic | Nominal Operating Pressure 8. Tests Conducted: Hydrostatic Test Temperature: oF Test Pressure: Psig Temperature: <sup>o</sup>F Component Design Pressure: Psig 9. Remarks: None CERTIFICATE OF COMPLIANCE We certify that the statements made in the report are correct and this repair conforms to the rules of the ASME Code. Section XI. Type Code Symbol Stamp: Not applicable Certificate Authorization No.: Not applicable Expiration Date: Not Applicable Signed by Prepared by 6-12-90 Date Date CERTIFICATE OF INSERVICE INSPECTION I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 5/26/90 to 6/12/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. Commissions National Board, State, and Endorsements Inspector's Signature

Date

6/12/90



# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

Owner: Washington Public Power Supply System (WPPSS)
 Address: 3000 George Washington Way, Richland, WA

Date: 6/25/90 Sheet: 1 of 1 Unit: WNP-2

2. Plant: WPPSS Nuclear Power Plant (WNP)

Address: Hanford, Benton County, WA

- 3.(a) Work Performed by: Bechtel Construction, Incorporation
  - (b) Repair Organization P.O. No., Job No., etc.: PO Box 600, Richland, WA
- 4. Identification of System: Main Steam (MS) System
- 5. (a) Applicable Construction Code ASME Section III: 1971 Edition with Winter 1973 Addenda, Code Case: None
  - (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
- 6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
MS(1)-4C	WPPSS	MS(1)-4C-P3	N/A	N/A	1983	Replacement	Yes, Code Class 2

- 7. Description of Work: Removed and capped test connection for the pressure transducer. The replacement work was performed as follows
  - 1) Cut and removed the test connection assembly
  - 2) Installed new replacement piping material
  - 3) Made required socket welds
  - 4) Performed PT examination on the final socket welds. PT examination results acceptable

18	MASHEOGICAL C	WHILE CONER
	SUPPLY	SYSTEM

	FORM NIS-2 (Back)
8.	Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other X None Test Pressure: Psig Test Temperature: OF Component Design Pressure: Psig Temperature: OF
9.	Remarks: None
	CERTIFICATE OF COMPLIANCE
	We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.  Type Code Symbol Stamp: Not applicable Certificate Authorization No.: Not applicable Expiration Date: Not Applicable  Prepared by    Code
	Date 6)2.5750 Date 6-27-90
	CERTIFICATE OF INSERVICE INSPECTION  I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 5/23/90 to 6/22/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.  By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.    Author   Accordance   Accor
	Date 6/27/90



## FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

Owner: Washington Public Power Supply System (WPPSS)
 Address: 3000 George Washington Way, Richland, WA

Date: 6/12/90 Sheet: 1 of 1 Unit: WNP-2

2. Plant: WPPSS Nuclear Power Plant (WNP) Address: Hanford, Benton County, WA

3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA

(b) Repair Organization P.O. No., Job No., etc.: WPPSS

4. Identification of System: Control Rod Drive (CRD) System

5. (a) Applicable Construction Code ASME Section III: 1971 Edition with Winter 1973 Addenda, Code Case: None

(b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
CRD-V-102	Dragon ,	DL10005	790	N/A	1977	Replacement	Yes, Code Class 2

7. Description of Work: Replaced stem/disc assembly. Removed stem/disc assembly from the valve and installed new replacement stem/disc assembly

43	WISHINGTON F	WHIIC POSTER
	SUPPLY	SYSTEM

	FORM NIS-2 (Back)						
8. 7	8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other X None Test Pressure: Psig Test Temperature: °F Component Design Pressure: Psig Temperature: °F						
9. 1	Remarks: None						
	CERTIFICATE OF COMPLIANCE						
	We certify that the statements made in the report are correct and this replacement conforms to the rules of the .  ASME Code, Section XI.  Type Code Symbol Stamp: Not applicable  Certificate Authorization No.: Not applicable  Expiration Date: Not Applicable  Prepared by Quay Grob Signed by  Plant Technical Manager  Date 6-12-90						
	CERTIFICATE OF INSERVICE INSPECTION						
	I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 5/23/90 to 6/12/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.  By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.  Commissions 950 W  National Board, State, and Endorsements  Date 6/12/90						



#### FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

Owner: Washington Public Power Supply System (WPPSS)
 Address: 3000 George Washington Way, Richland, WA

Date: 6/1/90 Sheet: 1 of 1 Unit: WNP-2

2. Plant: WPPSS Nuclear Power Plant (WNP)

Address: Hanford, Benton County, WA

- 3.(a) Work Performed by: Bechtel Construction, Incorporation
  - (b) Repair Organization P.O. No., Job No., etc.: PO Box 600, Richland, WA
- 4. Identification of System: Main Steam (MS) System
- 5. (a) Applicable Construction Code ASME Section III: 1971 Edition with Winter 1973 Addenda, Code Case: None
  - (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
- 6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
MS-V-120A	Borg Warner	20236	N/A	N/A	1974	Replacement	Yes, Code Class 2

- 7. Description of Work: Replaced stem/disc assembly for valve MS-V-120A. The replacement work was performed as follows
  - 1) Removed existing stem/disc assembly from the valve
  - 2) Installed new replacement stem/disc assembly in the valve

<b>A</b>	HOLDHISEYK	אספום בנופעק	3
	SUPPLY	SYSTE	Ĭ

FORM NIS-2 (Back)
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other X North Test Pressure: Psig Test Temperature: °F  Component Design Pressure: Psig Temperature: °F
9. Remarks: See attached N-2 Code Data Report for new replacement stem/disc assembly Serial No 207584-1
· CERTIFICATE OF COMPLIANCE
We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.  Type Code Symbol Stamp: Not applicable Certificate Authorization No.: Not applicable
Expiration Date: Not Applicable
Prepared by Culculy Suids Signed by Plant Technical Manager
Date
CERTIFICATE OF INSERVICE INSPECTION
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 5/25/90 to 6/1/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.  By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.  Commissions
Commissions 9556 W Inspector's Signature National Board, State, and Endorsements  Date 101100
Date

#### FORM N-2 CERTIFICATE HOLDERS' DATA REPORT FOR IDENTICAL NUCLEAR PARTS AND APPURTENANCES\*

PLAN No. 2.0603. Buldup Sur, 5/31/90.

at temp. °F

Iwhen applicable)

Cation of installation   ASSIINGTON FURLIC POWER SUPPLY STSTEM NORTH POWER PLANT LOOP RICHIAND, FASIINGTON 99352   Institute	Part or Appurenance   National   Serial Number   Serial Numb	position of installation    RASHINGTON PUBLIC POWER SUPPLY STSTEM NORTH POWER PLANT LOOP RICHLAND, RASHINGT (Internal addition)   Internal add addition	ON 99352
Castion of installation   FASHINGTON PUBLIC POWER SUPPLY STSTEM NORTH POWER PLANT LOOP RICHLAND, RASHINGTON 99352   Insert and address   Insert and addres	Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   C	PASHINGTON PUBLIC POWER SUPPLY STSTEM NORTH POWER PLANT LOOP RICHLAND, RASHINGT Iname and address)  Power Text Rev. B Stellite #6 N/A N/A 199  Gramma and address)  CRAM N/A 199  Gramma and address)  CRAM N/A 199  Gramma and address)  CRAM N/A 199  Gramma and address)  CRAM N/A 199  Gramma and address)  CRAM N/A 199  Gramma and address)  CRAM N/A 199  Gramma and address)  CRAM N/A 199  Gramma and address)  CRAM N/A 199  Gramma and address)  CRAM N/A 199  MATTER 1973 2 N/A  Feddence date)  Cramma and address)  CRAM N/A 199  Gramma and address)  CRAM N/A 199  MATTER 1973 2 N/A  Feddence date)  Cramma and address)  CRAM N/A 199  MATTER 1973 2 N/A  Feddence date)  Cramma and address)  CRAM N/A 199  MATTER 1973 2 N/A  Feddence date)  Cramma And Andread Antel  Cramma And l  Cramma And Antel  Cramma And Antel  Cramma Antel  Cramma Antel  Cramma Antel  Cramma Antel  Cramma Antel  Cramma Antel  Cramma Antel  Cramma Antel  Cramma Antel  Cramma Antel  Cramma Antel  Cramma Antel  Cramma Antel  Cramma Antel  Cramma Antel  Cramma Antel  Cramma Antel  Cramma Antel  Cramma Antel  Cramma Antel  Cramma Antel  Cramma Antel  Cramma Antel  Cramma Antel  Cramma Antel  Cramma Antel  Cramma Antel  Cramma Antel  Cramma Antel  Cramma Antel  Cramma Antel  Cramma Antel  Cramma Antel  Cramma Antel  Cramma Antel  Cramma Antel  Cramma Antel  Cramma Antel  Cramma Antel  Cramma Antel  Cramma Antel  Cramma Antel  Cramma Antel  Cramma Antel  Cramma Antel  Cramma Antel  Cramma Antel  Cramma Antel  Cramma Antel  Cramma Antel  Cramma Antel  Cramma Antel  Cramma Antel  Cramma Antel  Cramma Antel  Cramma Antel  Cramma Antel  Cramma Antel  Cramma Antel  Cramma Antel  Cramma Antel  Cramma Antel  Cramma Antel  Cramma Antel  Cramma Antel  Cramma Antel  Cr	O builti
Part or Appurtenance   National   Board No.   in Numerical Order   N/A   1990   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995   1995	Part or Appurtenance   Serial Number   Seria	pe TRIBERY B STELLITE \$6 N/A N/A 199  Classwag no.) (met'i, spec, no.) (tenses strength) (CRN) (treate strength)  SME Code, Section III: 1971 WINTER 1973 2 N/  Iedibon) (saddends date) (Class) (Code Cabricated in accordance with Const. Spec, (Div. 2 only) 1/2 Revision 1/2 N/A Date 1/2 N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	O builti
	Continue strength   Continue strength   Continue strength   Continue strength   Continue strength   Continue strength   Continue strength   Continue strength   Continue strength   Continue strength   Continue strength   Continue strength   Continue strength   Continue strength   Continue strength   Continue strength   Continue strength   Continue strength   Continue strength   Continue strength   Continue strength   Continue strength   Continue strength   Continue strength   Continue strength   Continue strength   Continue strength   Continue strength   Continue strength   Continue strength   Continue strength   Continue strength   Continue strength   Continue strength   Continue strength   Continue strength   Continue strength   Continue strength   Continue strength   Continue strength   Continue strength   Continue strength   Continue strength   Continue strength   Continue strength   Continue strength   Continue strength   Continue strength   Continue strength   Continue strength   Continue strength   Continue strength   Continue strength   Continue strength   Continue strength   Continue strength   Continue strength   Continue strength   Continue strength   Continue strength   Continue strength   Continue strength   Continue strength   Continue strength   Continue strength   Continue strength   Continue strength   Continue strength   Continue strength   Continue strength   Continue strength   Continue strength   Continue strength   Continue strength   Continue strength   Continue strength   Continue strength   Continue strength   Continue strength   Continue strength   Continue strength   Continue strength   Continue strength   Continue strength   Continue strength   Continue strength   Continue strength   Continue strength   Continue strength   Continue strength   Continue strength   Continue strength   Continue strength   Continue strength   Continue strength   Continue strength   Continue strength   Continue strength   Continue strength   Continue strength   Continue strength   Continue strength   Cont	CERNING No.]   CERNING NO.]   CERNING NO.]   CERNING NUMBER 1973   2   N/	ouiti A
Mational   Serial Number   S	Mational   Serial Number   S	SME Code, Section III: 1971 WINTER 1973 2 N/    Itedition	λ
Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tedition  Tediti	Tedinon Section III: Indicated in accordance with Const. Spec. (Div. 2 only)  MAA Revision N/A Date N/A  Marks: PR/TP_TOB_NO 891-S-2533 PAPT WINE_ STEM AND DISC ASSEMBLY  HYDDOSTATIC TESTING N/T PERFORMED IDENTIFICATION IS PER NCA-8230 IN LIET OF NAMERIATE.  In thickness (in.) N/A Min. design thickness (in.) N/A Dia. ID (ft & in.) N/A Length overall (ft & in.) N/A nen applicable, Certificate Holders' Data Reports are attached for each item of this report:  Part or Appurtenance Serial Number Board No. in Numerical Order in Numerical Order  1) 207584-1 N/A (26)  207584-2 N/A (28)  207584-3 N/A (28)  (30)  (31)  (31)  (31)  (32)  (33)  (34)  (34)  (35)  (36)  (37)  (38)  (39)  (40)  (41)  (42)  (44)	Tedition (Coas Ci Dericated in accordance with Const. Spec. (Div. 2 only)	
Part or Appurtenance Serial Number  National Board No. in Numerical Order  11 207584-1 N/A 21 207584-2 N/A 31 207584-3 N/A 41 (28) 41 (30) 41 (31) 41 (35) 41 (35) 41 (36) 41 (36) 41 (37) 41 (38) 41 (39) 41 (39) 41 (39) 41 (39) 41 (39) 41 (39) 41 (39) 41 (39) 41 (39) 41 (39) 41 (39) 41 (39) 41 (39) 41 (39) 41 (39) 41 (39) 41 (40) 41 (41) 42 (43)	National   Serial Number   S	Marks: BS/ID JOS NO. 891-S-2533  BAT VAME. STEM AND DISC ASSEMBLY  HYDROSTATIC TESTING NOT PERFORMED. IDENTIFICATION IS PER NCA-8230 IN LIEU OF NAMEPLATE.  In. thickness (in.) N/A Min. design thickness (in.) N/A Dia. ID (ft & in.) N/A Length overall (ft & in.) nen applicable, Certificate Holders' Data Reports are attached for each item of this report:  Part or Appurtenance National Board No. in Numerical Order in Numerical Order in Numerical Order in Numerical Order in Numerical Order in Numerical Order in Numerical Order in Numerical Order in Numerical Order in Numerical Order in Numerical Order in Numerical Order in Numerical Order in Numerical Order in Numerical Order in Numerical Order in Numerical Order in Numerical Order in Numerical Order in Numerical Order in Numerical Order in Numerical Order in Numerical Order In Numerical Order In Numerical Order In Numerical Order In Numerical Order In Numerical Order In Numerical Order In Numerical Order In Numerical Order In Numerical Order In Numerical Order In Numerical Order In Numerical Order In Numerical Order In Numerical Order In Numerical Order In Numerical Order In Numerical Order In Numerical Order In Numerical Order In Numerical Order In Numerical Order In Numerical Order In Numerical Order In Numerical Order In Numerical Order In Numerical Order In Numerical Order In Numerical Order In Numerical Order In Numerical Order In Numerical Order In Numerical Order In Numerical Order In Numerical Order In Numerical Order In Numerical Order In Numerical Order In Numerical Order In Numerical Order In Numerical Order In Numerical Order In Numerical Order In Numerical Order In Numerical Order In Numerical Order In Numerical Order In Numerical Order In Numerical Order In Numerical Order In Numerical Order In Numerical Order In Numerical Order In Numerical Order In Numerical Order In Numerical Order In Numerical Order In Numerical Order In Numerical Order In Numerical Order In Numerical Order In Numerical Order In Numerical Order In Numerical Order In Numerical Orde	
marks:gg/TPTOBNO 891-S-2533	RATE   108 NO   891-S-2533   PAPE VIME   STEM AND DISC ASSEMBLY	HYDPOSTATIC TESTING NOT PERFORMED. IDENTIFICATION IS PER NCA-8230 IN LIEU OF NAMEPLATE.  In. thickness (in.) N/A Min. design thickness (in.) N/A Dia. ID (ft & in.) N/A Length overall (ft & in.) nen applicable, Certificate Holders' Data Reports are attached for each item of this report:  Part or Appurtenance National Board No. Serial Number Board Num in Numerical Order in Numerical N/A (26) (27) (28) (30) (31) (32) (33) (33)	
m. thickness (in.)M/\(\textit{\Delta}\) Min. design thickness (in.)M/\(\textit{\Delta}\) Dia. ID (if & in.)M/\(\textit{\Delta}\) Length overall (if & in.)M/\(\textit{\Delta}\) hen applicable, Certificate Holders' Data Reports are attached for each item of this report:  Part or Appurtenance	m. thickness (in.) M/A Min. design thickness (in.) N/A Dia. ID (if & in.) M/A Length overall (if & in.) N/A Dia. ID (if & in.) M/A Length overall (if & in.) M/A Length overall (if & in.) M/A Length overall (if & in.) M/A Length overall (if & in.) M/A Length overall (if & in.) M/A Length overall (if & in.) M/A Length overall (if & in.) M/A Length overall (if & in.) M/A Length overall (if & in.) M/A Length overall (if & in.) M/A Length overall (if & in.) M/A Length overall (if & in.) M/A Length overall (if & in.) M/A Length overall (if & in.) M/A Length overall (if & in.) M/A Length overall (if & in.) M/A Length overall (if & in.) M/A Length overall (if & in.) M/A Length overall (if & in.) M/A Length overall (if & in.) M/A Length overall (if & in.) M/A Length overall (if & in.) M/A Length overall (if & in.) M/A Length overall (if & in.) M/A Length overall (if & in.) M/A Length overall (if & in.) M/A Length overall (if & in.) M/A Length overall (if & in.) M/A Length overall (if & in.) M/A Length overall (if & in.) M/A Length overall (if & in.) M/A Length overall (if & in.) M/A Length overall (if & in.) M/A Length overall (if & in.) M/A Length overall (if & in.) M/A Length overall (if & in.) M/A Length overall (if & in.) M/A Length overall (if & in.) M/A Length overall (if & in.) M/A Length overall (if & in.) M/A Length overall (if & in.) M/A Length overall (if & in.) M/A Length overall (if & in.) M/A Length overall (if & in.) M/A Length overall (if & in.) M/A Length overall (if & in.) M/A Length overall (if & in.) M/A Length overall (if & in.) M/A Length overall (if & in.) M/A Length overall (if & in.) M/A Length overall (if & in.) M/A Length overall (if & in.) M/A Length overall (if & in.) M/A Length overall (if & in.) M/A Length overall (if & in.) M/A Length overall (if & in.) M/A Length overall (if & in.) M/A Length overall (if & in.) M/A Length overall (if & in.) M/A Length overall (if & in.) M/A Length overall (if & in.) M/A Length overall (if & in.) M/A Length overall (if & in.) M/A Length overall (if & in.)	HYDPOSTATIC TESTING NOT PERPORMED. IDENTIFICATION IS PER NCA-8230 IN LIEU OF NAMEPLATE.  Im. thickness (in.) N/A Min. design thickness (in.) N/A Dia. ID (ft & in.) N/A Length overall (ft & in.) Length overall (ft & in.) Length overall (ft & in.) Length overall (ft & in.) Length overall (ft & in.) Length overall (ft & in.) Length overall (ft & in.) Length overall (ft & in.) Length overall (ft & in.) Length overall (ft & in.) Length overall (ft & in.) Length overall (ft & in.) Length overall (ft & in.) Length overall (ft & in.) Length overall (ft & in.) Length overall (ft & in.) Length overall (ft & in.) Length overall (ft & in.) Length overall (ft & in.) Length overall (ft & in.) Length overall (ft & in.) Length overall (ft & in.) Length overall (ft & in.) Length overall (ft & in.) Length overall (ft & in.) Length overall (ft & in.) Length overall (ft & in.) Length overall (ft & in.) Length overall (ft & in.) Length overall (ft & in.) Length overall (ft & in.) Length overall (ft & in.) Length overall (ft & in.) Length overall (ft & in.) Length overall (ft & in.) Length overall (ft & in.) Length overall (ft & in.) Length overall (ft & in.) Length overall (ft & in.) Length overall (ft & in.) Length overall (ft & in.) Length overall (ft & in.) Length overall (ft & in.) Length overall (ft & in.) Length overall (ft & in.) Length overall (ft & in.) Length overall (ft & in.) Length overall (ft & in.) Length overall (ft & in.) Length overall (ft & in.) Length overall (ft & in.) Length overall (ft & in.) Length overall (ft & in.) Length overall (ft & in.) Length overall (ft & in.) Length overall (ft & in.) Length overall (ft & in.) Length overall (ft & in.) Length overall (ft & in.) Length overall (ft & in.) Length overall (ft & in.) Length overall (ft & in.) Length overall (ft & in.) Length overall (ft & in.) Length overall (ft & in.) Length overall (ft & in.) Length overall (ft & in.) Length overall (ft & in.) Length overall (ft & in.) Length overall (ft & in.) Length overall (ft & in.) Length overall (ft & in.) Length	
Part or Appurtenance Serial Number  National Board No. in Numerical Order  N/A  12 207584-2 N/A  13 207584-3 N/A  14	Part or Appurtenance Serial Number  11 207584-1 12 207584-2 13 207584-3 14	m. thickness (in.) N/A Min. design thickness (in.) N/A Dia. ID (ft & in.) N/A Length overall (ft & in.) hen applicable, Certificate Holders' Data Reports are attached for each item of this report:  Part or Appurtenance National Board No. in Numerical Order  11 207584-1 N/A Serial Number Board Numerical (26) (27) (28) (30) (31) (32) (33)	<del></del>
m. thickness (in.)	Part or Appurtenance Serial Number  1) 207584-1 1) 207584-2 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/A 1) 1/	m. thickness (in.) N/A Min. design thickness (in.) N/A Dia. ID (ft & in.) N/A Length overall (ft & in.) nen applicable, Certificate Holders' Data Reports are attached for each item of this report:  Part or Appurtenance National Board No. in Numerical Order in Numerical Order  1) 207584-1 N/A Serial Number Board Numerical Order in Numerical (26) (27) (28) (30) (31) (32) (33)	
Part or Appurtenance Serial Number Board No. in Numerical Order in Numerical Order in Numerical Order 207584-2 N/A 22 207584-3 N/A (28) (29) (30) (31) (32) (33) (34) (35) (37) (36) (37) (38) (39) (40) (40) (41) (42) (43)	Part or Appurtenance Serial Number Board No. in Numerical Order  11	Part or Appurtenance Serial Number  National Board No. in Numerical Order  N/A  207584-1  N/A  207584-2  N/A  30 207584-3  N/A  (26) (27) (28) (29) (30) (31) (32) (33)	
Part or Appurtenance Serial Number Board No. in Numerical Order in Numerical Order in Numerical Order 207584-2 N/A 22 207584-3 N/A (28) (29) (30) (31) (32) (33) (34) (35) (37) (36) (37) (38) (39) (40) (40) (41) (42) (43)	Part or Appurtenance Serial Number Board No. in Numerical Order  11	Part or Appurtenance Serial Number  National Board No. in Numerical Order  N/A  207584-1  N/A  207584-2  N/A  30 207584-3  N/A  (26) (27) (28) (29) (30) (31) (32) (33)	
Part or Appurtenance Serial Number Board No. in Numerical Order  1) 207584-1 N/A (26) (27) (28) (30) (31) (32) (33) (34) (35) (35) (37) (36) (37) (38) (40) (40) (41) (42) (43)	Part or Appurtenance Serial Number    11	Part or Appurtenance Serial Number  National Serial Number  National Numerical Order  National Serial Number	N/A
Part or Appurtenance Serial Number Board No. in Numerical Order  1) 207584-1 N/A (26) (27) (28) (30) (31) (32) (33) (34) (35) (37) (38) (40) (40) (41) (42) (43)	Part or Appurtenance Serial Number Board No. in Numerical Order  11	Part or Appurtenance Serial Number Board No.   Serial Number Board Num in Numerical Order   Serial Number   Se	
Serial Number   Board No.   in Numerical Order	Serial Number Board No. in Numerical Order  1) 207584-1 N/A 22 207584-2 N/A 31 207584-3 N/A 41 (28) 41 (30) 66 (31) 77 (32) 88 (33) 99 (34) 100 (35) 11 (36) 13 (37) 30 (38) 41 (39) 41 (39) 55 (37) 66 (37) 77 (38) 78 (38) 79 (40) 14 (41) 15 (42) 16 (43) 16 (44)	Serial Number   Board No.	
Serial Number   Board No.   in Numerical Order	Serial Number Board No. in Numerical Order  1) 207584-1 N/A 22 207584-2 N/A 31 207584-3 N/A 41 (28) 41 (30) 66 (31) 77 (32) 88 (33) 99 (34) 100 (35) 11 (36) 13 (37) 30 (38) 41 (39) 41 (39) 55 (37) 66 (37) 77 (38) 78 (38) 79 (40) 14 (41) 15 (42) 16 (43) 16 (44)	Serial Number   Board No.	
Serial Number   Board No.   in Numerical Order	Serial Number Board No. in Numerical Order  1) 207584-1	Serial Number   Board No.     Serial Number   Board Num in Numerical Order	ı
in Numerical Order  11	in Numerical Order    1)   207584-1   N/A	in Numerical Order    13	
11	1) 207584-1 N/A (26) (27) (28) (29) (30) (31) (31) (32) (33) (34) (35) (37) (38) (39) (41) (42) (43) (44) (44)	1) 207584-1 N/A 2) 207584-2 N/A 3) 207584-3 N/A 4) (28) (29) (30) (31) (32) (33)	
2) 207584-2 N/A (27) (28) (29) (30) (31) (32) (33) (34) (35) (36) (37) (38) (39) (40) (41) (42) (43)	2) 207584-2	2) 207584-2 · N/A (27) (27) (28) (29) (30) (31) (32) (33)	Order
2) 207584-2 N/A (27) (28) (29) (30) (31) (32) (33) (34) (35) (36) (37) (38) (39) (40) (41) (42) (43)	2) 207584-2	2) 207584-2 · N/A (27) (27) (28) (29) (30) (31) (32) (33)	
3) 207584-3 N/A (28) (29) (30) (31) (31) (32) (33) (34) (35) (36) (37) (38) (39) (40) (41) (42) (43)	3) 207584-3 N/A (28) (29) (30) (31) (31) (32) (33) (34) (35) (36) (37) (36) (37) (38) (39) (40) (41) (42) (43) (44) (44)	3) 207584-3 N/A (28) (29) (30) (31) (32) (33) (33)	
41 41 51 60 71 81 91 00 11 11 12 13 13 13 13 13 13 13 13 13 13	41 41 51 60 77 81 91 00 11 11 12 13 13 13 13 13 13 13 13 13 13	(129) (129) (130) (131) (132) (132) (133)	<del>/-</del>
5) (30) (31) (32) (33) (34) (35) (36) (37) (38) (39) (40) (41) (42) (43)	5) 6) 7) 81 9) 9) 11) 21 33) 41 55) 60 (30) (31) (32) (33) (34) (35) (36) (37) (38) (39) (40) (41) (42) (43) (43)	5)	/_
6) 7) 81 9) (31) (32) (33) (34) (35) (36) (37) (38) (39) (40) (40) (41) (42) (42)	6) 7) 81 9) 00 11) 12) 31) 41) 5) 60 1(31) (32) (33) (34) (35) (36) (37) (38) (39) (40) (41) (42) (43) (9)	6)	<del>-/</del>
7)	7) 81 91 00 11) 11) 21 33) 44) 55) 66) 77) 88) 99 140) 141) 142) 143) 144)	7) (32) (33)	/
81	81	8)	,
9)	9)		
0) 1) (35) (36) (37) (38) (39) (40) (41) (42) (43)	0)		
1) (36) (37) (38) (39) (40) (41) (42) (42) (43)	1)	91 [134]	
2) 3) 4) (39) (40) (41) (42) (43)	2)		
3) 4) (39) (40) (41) (42) (43)	3) 4) (39) (40) (41) (42) (43) (9)		
4) 5) 6) (40) (41) (42) (43)	4) 5) 6) 7) 8) 9)	2) (37)	
4) 5) 6) (40) (41) (42) (43)	4) 5) 6) 7) 8) 9)	3) (38)	
5)	5)		
6)	6)		
7) (42) (43)	7)		
8)	8)		
	9)		
	(45)		

100

psi. Temp. .

(48) (49) (50)

(23)

10. Design pressure.

3600

\_ °F. Hydro. test pressure \_

<sup>\*</sup>Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is 8½ × 11, (2) information in items 2 and 3 on this Data Report hs included on each sheet. (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM N-2 (back) T Mfr. Serial No. CERTIFICATION OF DESIGN X/X Reg. no. Design specifications certified by . Iwnen 4000C40H1 H/A Design report \* certified by . twoen approaple! CERTIFICATE OF SHOP COMPLIANCE STEM AND DISC ASSEMBLY We cartify that the statements made in this report are correct and that the statements made in this report are correct and that the statements made in this report are correct and that the statements made in this report are correct and that the statements made in this report are correct and that the statements made in this report are correct and that the statements made in this report are correct and that the statements made in this report are correct and that the statements made in this report are correct and that the statements made in this report are correct and that the statements made in this report are correct and that the statements made in this report are correct and that the statements made in this report are correct and that the statement is statement and the statement is statement. conforms to the rules of construction of the ASME Code, Section III. JUNE 16. 1990 NPT Certificate of Authorization No. \_\_ BR/IP INTERNATIONAL INC. \_ Name \_\_ CERTIFICATE OF SHOP INSPECTION I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CALIFORNIA and employed by ARKERIGHT MUTUAL INS. CO. FACTORY MUTUAL SISTEM MENO \_ have inspected these items described in this Data Report on \_ NORROOD, MASS. best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section

By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or

.....

III. Each part listed has been authorized for stamping on the date shown above.

loss of any kind arising from or connected with this inspection.



Date: 6/25/90 Sheet: 1 of 1

Unit: WNP-2

## FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

1. Owner: Washington Public Power Supply System (WPPSS)

Address: 3000 George Washington Way, Richland, WA

2. Plant: WPPSS Nuclear Power Plant (WNP)
Address: Hanford, Benton County, WA

3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA

(b) Repair Organization P.O. No., Job No., etc.: WPPSS

4. Identification of System: Control Rod Drive (CRD) System

5. (a) Applicable Construction Code ASME Section III: 1971 Edition with Winter 1973 Addenda, Code Case: None

(b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
CRD-V-101	Dragon	DL10330	790	N/A	1977	Replacement	Yes, Code Class 2

7. Description of Work: Replaced stem/disc assembly. Removed stem/disc assembly from the valve and installed new replacement stem/disc assembly

A	WASHINGTON P	THE POSES
	SUPPLY	SYSTEM

FORM NIS-2 (Back)
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other X Non Test Pressure: Psig Test Temperature: OF Component Design Pressure: Psig Temperature: OF
9. Remarks: None
· CERTIFICATE OF COMPLIANCE
We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.  Type Code Symbol Stamp: Not applicable Certificate Authorization No.: Not applicable Expiration Date: Not Applicable  Prepared by    Signed by
CERTIFICATE OF INSERVICE INSPECTION
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 5/30/90 to 6/18/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.  By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.    Commissions   9566



# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

Owner: Washington Public Power Supply System (WPPSS)
 Address: 3000 George Washington Way, Richland, WA

Date: 6/12/90 Sheet: 1 of 1 Unit: WNP-2

2. Plant: WPPSS Nuclear Power Plant (WNP)

Address: Hanford, Benton County, WA

- 3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA
  - (b) Repair Organization P.O. No., Job No., etc.: WPPSS
- 4. Identification of System: Residual Heat Removal (RHR) System
- 5. (a) Applicable Construction Code ASME Section III: 1971 Edition with Winter 1973 Addenda, Code Case: None
  - (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
- 6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
RHR(1)-2B	WPPSS	RHR(1)-2B-P1	N/A	N/A	1984	Replacement	Yes, Code Class 2

7. Description of Work: Removed relief valve RHR-RV-1B and installed blind flange on the inlet piping in place

Note: This is considered as interim design configuration of the piping system while the relief valve was being bench tested

A	MASICAL E	गाउदाद २०५७३
	SUPPLY	SYSTEM

	FORM NIS-2 (Back)						
8.	Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other X None Test Pressure: Psig Test Temperature: °F Component Design Pressure: Psig Temperature: °F						
9.	Remarks: None						
	CERTIFICATE OF COMPLIANCE						
	We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.  Type Code Symbol Stamp: Not applicable  Certificate Authorization No.: Not applicable  Expiration Date: Not Applicable  Prepared by Signed by Plant Technical Manager  Date 6/12/90 Date 15-12-90						
	CERTIFICATE OF INSERVICE INSPECTION						
	I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 4/1/90 to 4/12/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.  By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.    Author   Aut						
	Date 6/12/90						



# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

1. Owner: Washington Public Power Supply System (WPPSS)

Address: 3000 George Washington Way, Richland, WA

Date: 6/12/90 Sheet: 1 of 1 Unit: WNP-2

2. Plant: WPPSS Nuclear Power Plant (WNP)

Address: Hanford, Benton County, WA

- 3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA
  - (b) Repair Organization P.O. No., Job No., etc.: WPPSS
- 4. Identification of System: Residual Heat Removal (RHR) System
- 5. (a) Applicable Construction Code ASME Section III: 1971 Edition with Winter 1973 Addenda, Code Case: None
  - (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
- 6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
RHR(1)-2B	WPPSS	RHR(1)-2B-P1	N/A	N/A	1984	Replacement	Yes, Code Class 2

7. Description of Work: Removed relief valve RHR-RV-25B and installed blind flange on the inlet piping in place

Note: This is considered as interim design configuration of the piping system while the relief valve was being bench tested

12	WASHOOG TOW	<b>स्प्राधा</b>	<b>E03.53</b>
	SUPPLY	SYS	TEM

	FORM NIS-2 (Back)							
8. T	8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other X None Test Pressure: Psig Test Temperature: °F Component Design Pressure: Psig Temperature: °F							
9. R	Remarks: None							
	CERTIFICATE OF COMPLIANCE							
	We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.  Type Code Symbol Stamp: Not applicable Certificate Authorization No.: Not applicable Expiration Date: Not Applicable  Prepared by    Color   Color   Color   Color							
	Date 6/12/90 Date 6-12-96							
	CERTIFICATE OF INSERVICE INSPECTION							
	I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 6/1/90 to 6/1/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.  By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.							
	Commissions 9556W Inspector's Signature National Board, State, and Endorsements							
	Date							



#### FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

1. Owner: Washington Public Power Supply System (WPPSS)
Address: 3000 George Washington Way, Richland, WA

Date: 6/12/90 Sheet: 1 of 1 Unit: WNP-2

2. Plant: WPPSS Nuclear Power Plant (WNP)
Address: Hanford, Benton County, WA

3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA

(b) Repair Organization P.O. No., Job No., etc.: WPPSS

4. Identification of System: Residual Heat Removal (RHR) System

5. (a) Applicable Construction Code ASME Section III: 1971 Edition with Winter 1973 Addenda, Code Case: None

(b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308

6. Identification of Components Repaired or Replaced and Replacement Components

Name o Compone	1 . <u>-</u>	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
RHR(3)-2	B WPPSS	RHR(3)-2B-P1	N/A	N/A	1983	Replacement	Yes, Code Class 2

7. Description of Work: Removed relief valve RHR-RV-88B and installed blind flange on the inlet piping in place

Note: This is considered as interim design configuration of the piping system while the relief valve was being bench tested

MASHDOOTON I	गाम	RESECT-S
SUPPLY	<b>512</b>	111214

	FORM NIS-2 (Back)						
8.	Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other X None Test Pressure: Psig Test Temperature: °F Component Design Pressure: Psig Temperature: °F						
9.	Remarks: None						
	·						
	CERTIFICATE OF COMPLIANCE						
	We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.  Type Code Symbol Stamp: Not applicable Certificate Authorization No.: Not applicable Expiration Date: Not Applicable  Prepared by  Calcan Signed by  Plant Technical Manager						
	Date - 6/12/90 Date -6-12-90						
	I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period (al. 190 to (al. 190 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.  By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.    Commissions   955660   National Board, State, and Endorsements						
1							

#### FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

1. Owner: Washington Public Power Supply System (WPPSS)

Date: 6/25/90

Address: 3000 George Washington Way, Richland, WA

Sheet: 1 of 1

2. Plant: WPPSS Nuclear Power Plant (WNP)

Unit: WNP-2

Address: Hanford, Benton County, WA

- 3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA
  - (b) Repair Organization P.O. No., Job No., etc.: WPPSS
- 4. Identification of System: Reactor Recirculation Cooling (RRC) System
- 5. (a) Applicable Construction Code ASME Section III: 1971 Edition with Winter 1973 Addenda, Code Case: None
  - (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
- 6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
RRC(51)-4	WPPSS	RRC(51)-4-P1	N/A	N/A	1983	Repair	Yes, Code Class 1
RRC(51)-4	WPPSS	RRC(51)-4-P2	N/A	N/A	1983	Repair	Yes, Code Class 2

- 7. Description of Work: Removed and reinstalled RRC stem leak off and vent connection lines for valve RRC-V-60A. The work was performed as follows
  - 1) Ground (cut) existing socket welds
  - 2) Reinstalled material and made required socket welds
  - 3) Performed PT examination on the final socket welds. PT examination results acceptable

48	TASHIDIGICM	KEROS SIJEUS
	SUPPLY	SYSTEM

FORM NIS-2 (Back)						
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other X None Test Pressure: Psig Test Temperature: OF Component Design Pressure: Psig Temperature: OF						
9. Remarks: None						
CERTIFICATE OF COMPLIANCE						
We certify that the statements made in the report are correct and this repair conforms to the rules of the ASME Code, Section XI.  Type Code Symbol Stamp: Not applicable Certificate Authorization No.: Not applicable Expiration Date: Not Applicable  Prepared by    Code Symbol Stamp: Not applicable						
CERTIFICATE OF INSERVICE INSPECTION						
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 6/2/90 to 6/2/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.  By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.  Commissions 9556 W						
Anspector's Signature  Commissions  9556 W  National Board, State, and Endorsements  Date  (127/00)						
Date <u>6/27/90</u>						

Date: 9/13/90

Sheet: 1 of 1

Unit: WNP-2

## FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

1. Owner: Washington Public Power Supply System (WPPSS)

Address: 3000 George Washington Way, Richland, WA

2. Plant: WPPSS Nuclear Power Plant (WNP)

Address: Hanford, Benton County, WA

- 3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA
  - (b) Repair Organization P.O. No., Job No., etc.: WPPSS
- 4. Identification of System: Process Instrument (PI) System
- 5. (a) Applicable Construction Code ASME Section III: 1974 Edition with Winter 1975 and 1976 Addenda, Code Case: None
  - (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
- 6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
PI(1)-4S-X75D	JCI	PI(1)-4S-X75D	N/A	N/A	1983	Repair	Yes, Code Class 1
PI-EFC-X75D	Dragon	GW 1137	N/A	N/A	1978	Replacement	Yes, Code Class 1

- 7. Description of Work: Cut and rewelded valve PI-EFC-X75D to pipe weld and also replaced poppet assembly (disc) for the valve. The repair and replacement work was performed as follows
  - 1) Cut pipe to valve weld
  - 2) Prepped valve socket end for rewelding
  - 3) Performed PT examination on the prepped valve socket end. PT examination results acceptable
  - 4) Removed existing poppet assembly (disc) and installed new replacement poppet assembly (disc)
  - 5) Made valve to pipe socket weld
  - 6) Performed PT examination on the final socket weld. PT examination results acceptable

.0	WASHINGTON F	UBLIC POWER
	SUPPLY	SYSTEM

	FORM NIS-2 (Back)
8.	Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other X None Test Pressure: Psig Test Temperature: °F Component Design Pressure: Psig Temperature: °F
9.	Remarks: None
	CERTIFICATE OF COMPLIANCE
	We certify that the statements made in the report are correct and this repair/replacement conforms to the rules of the ASME Code, Section XI.  Type Code Symbol Stamp: Not applicable Certificate Authorization No.: Not applicable Expiration Date: Not Applicable
	Prepared by Culch Signed by Plant Technical Manager
	Date
	CERTIFICATE OF INSERVICE INSPECTION
	I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 6-4-90 to 9-13-90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.  By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.  Commissions 9556 W  National Board, State, and Endorsements
	Date 9/13/90



Date: 6/25/90

Sheet: 1 of 1

Unit: WNP-2

## • FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

1. Owner: Washington Public Power Supply System (WPPSS)

Address: 3000 George Washington Way, Richland, WA

2. Plant: WPPSS Nuclear Power Plant (WNP)
Address: Hanford, Benton County, WA

3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA

(b) Repair Organization P.O. No., Job No., etc.: WPPSS

4. Identification of System: Process Instrument (PI) System

5. (a) Applicable Construction Code ASME Section III: 1974 Edition with Winter 1972/SAddenda, Code Case: None

(b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
PI(1)-4S-X38d	,	PI(1)-4S-X38d	N/A	N/A	1983	Replacement	Yes, Code Class 1

- 7. Description of Work: Replaced section of pipe (with unacceptable PT indication) in RCIC high steam flow instrument line PI(1)-4S-X38d. The replacement work was performed as follows
  - 1) Ground (cut) existing socket welds
  - 2) Removed pipe piece with unacceptable PT indication
  - 3) Installed new replacement pipe and made required socket welds
  - 4) Performed PT examination on the final socket welds. PT examination results acceptable

A	MASHORGICAL E	म्याधाद ६०अछा
	SUPPLY	SYSTEM

FORM NIS-2 (Back)					
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other X None Test Pressure: Psig Test Temperature: °F Component Design Pressure: Psig Temperature: °F					
9. Remarks: None					
CERTIFICATE OF COMPLIANCE					
We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.  Type Code Symbol Stamp: Not applicable Certificate Authorization No.: Not applicable Expiration Date: Not Applicable					
Prepared by Lucip Scips · Signed by Plant Technical Manager					
Date 6/25/70 Date 6-27-90					
CERTIFICATE OF INSERVICE INSPECTION					
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 6/8/90 to 6/25/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.  By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.					
Am Association Commissions 955600  / Inspector's Signature National Board, State, and Endorsements					
/Inspector's Signature  National Board, State, and Endorsements  Date 6/27/90 -					



## FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

1. Owner: Washington Public Power Supply System (WPPSS)
Address: 3000 George Washington Way, Richland, WA

Date: 8/6/90 Sheet: 1 of 1 Unit: WNP-2

2. Plant: WPPSS Nuclear Power.Plant (WNP)

Address: Hanford, Benton County, WA

- 3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA
  - (b) Repair Organization P.O. No., Job No., etc.: WPPSS
- 4. Identification of System: Main Steam (MS) System
- 5. (a) Applicable Construction Code ASME Section III: 1971 Edition with Winter 1973 Addenda, Code Case: None
  - (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
- 6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other LD.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
MS-TK-3U	Jet Air	N-125	N/A	N/A	1980	Replacement	Yes, Code Class 2

7. Description of Work: Installed new replacement pipe cap on test connection for MS-TK-3U

18	MASHINGTON PUBLIC POWER SUPPLY SYSTEM					
	SUPPLY	SYSTEM				
•	1	•				
17/	ODM NIC	2 (Rock)				

#### PLAN NO. 2-0622 FORM NIS-2 (Back) Other X None Nominal Operating Pressure 8. Tests Conducted: Hydrostatic Pneumatic Test Temperature: °F Test Pressure: Psig Temperature: <sup>o</sup>F Component Design Pressure: Psig 9. Remarks: None CERTIFICATE OF COMPLIANCE We certify that the statements made in this Owner's Report are correct and this replacement conforms to the rules of the ASME Code, Section XI. Type Code Symbol Stamp: Not applicable Certificate Authorization No.: Not applicable Expiration Date: Not Applicable Signed by Prepared by Plant Technical Manager 8-8-50 Date Date CERTIFICATE OF INSERVICE INSPECTION I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period $\frac{7/(2/90)}{}$ to $\frac{8/8/90}{}$ and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. Commissions

National Board, State, and Endorsements

Date

Mspector's Signature



## FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

Owner: Washington Public Power Supply System (WPPSS)
 Address: 3000 George Washington Way, Richland, WA

Date: 9/10/90 Sheet: 1 of 1 Unit: WNP-2

2. Plant: WPPSS Nuclear Power Plant (WNP)
Address: Hanford, Benton County, WA

3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA

(b) Repair Organization P.O. No., Job No., etc.: WPPSS

4. Identification of System: Containment Instrument Air (CIA) System

5. (a) Applicable Construction Code ASME Section III: 1971 Edition with Winter 1973 Addenda, Code Case: None

(b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
CIA(3)-2	WPPSS	CIA(3)-2-P1	N/A	N/A	1983	Replacement	Yes, Code Class 2

7. Description of Work: Replaced existing flexible metal hose assembly CIA-FLX-1C with new replacement flexible metal hose assembly. Performed pressure test to confirm pressure boundary integrity. No evidence of leakage during pressure test

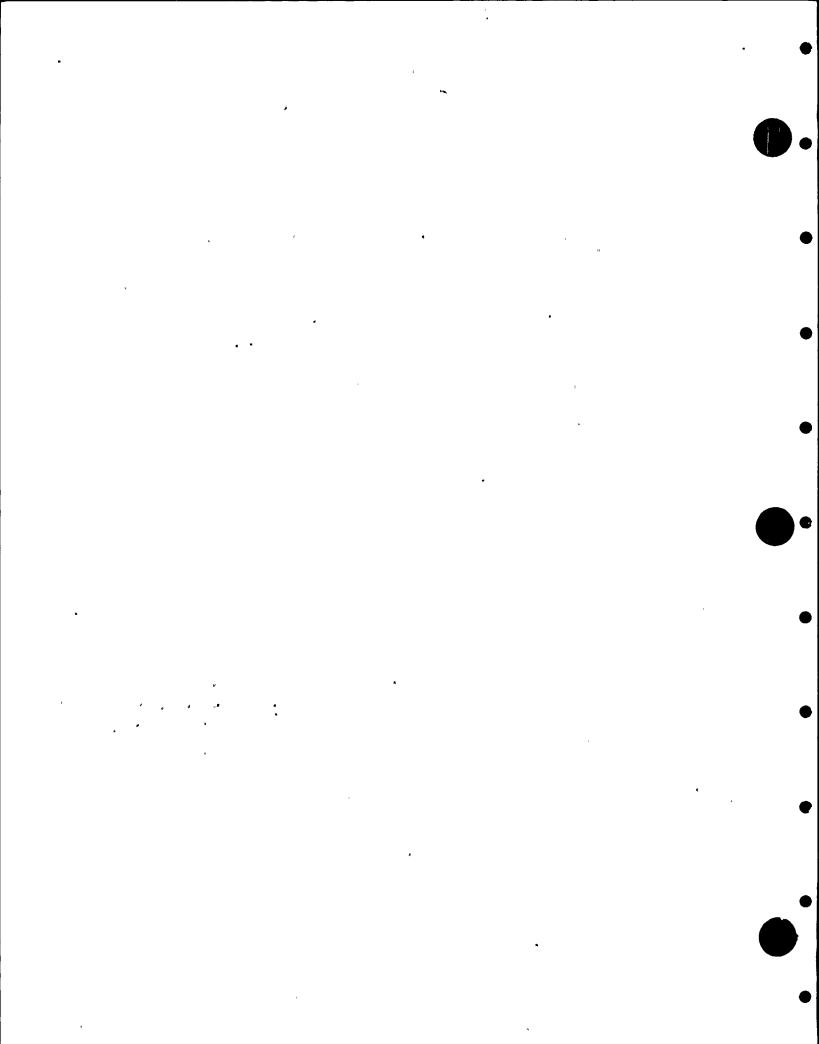
100	WASHINGTON S	OTHER	POWER
S	SUPPLY	SYS	TEM

	FORM NIS-2 (Back)
8.	Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure X Other  Test Pressure: 151 Psig Test Temperature: 83 °F  Component Design Pressure: 200 Psig Temperature: 340 °F
9.	Remarks: See attached NPP-1 Code Data Report for the new replacement flexible metal hose assembly CIA-FLX-1C, Serial No 001
•	CERTIFICATE OF COMPLIANCE
	We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.  Type Code Symbol Stamp: Not applicable  Certificate Authorization No.: Not applicable  Expiration Date: Not Applicable  Prepared by  Signed by
	Plant Technical Manager
	Date $\frac{q/ 0/93}{}$ Date $\frac{q- 0-90 }{}$
	CERTIFICATE OF INSERVICE INSPECTION
	I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 7/20/90 to 9/10/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.  By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
	Ann Hogan Commissions 955%
	And pector's Signature  National Board, State, and Endorsements  Date 9/0/90

PLAN NO 2-0624.

FORM NPP-1 DATA REPORT FOR FABRICATED NUCLEAR PIPING SUBASSEMBLIES\* (As Required by the Provisions-of the ASME Code Rules)

	11.0
1. Fabricated by Metal Bellows Div. of Parker Hannifin Corp. Order No. Al2237 200 Science Dr.; Moorpark, Ca. 93021-8010	•
2. Fabricated for Washington Public Power Supply System Order No. 205895  Richland, WA (Name and Address)	
Washington Public Power Supply. Location of Plant WNP-2 North Power Plant Ic Richland, WA 99352	gœ
5. Piping System Identification Flexible Metal Hose Assembly  (Brief description of intended use, main coolant etc.)	
(a) Drawing No. 87357 Prepared by Metal Bellows Div. of Parker Hannifin Co	orp.
(b) National Board No	
6. The material, design, construction, and workmanship complies with ASME Code Section III, Class 2  Edition 1980, Addenda Date 5'82, Case No. N-192-2	•
Remarks: Manufacturers' Data Reports properly Identified and signed by Commissioned Inspectors have been furnished for	
(Name of Part - Item number, Manufacturer's name, and Identifying stamp)	
7. Shop Hydrostatic Test 10 Min. @ 470 psi.	
8. Description of piping inspected 87357: Bellows; SA249 Type 321 2.00" O.D. x .020" the Conclude of thickness length	nick
straight tube. Adaptors; SA479 Type 304 both ends. Stub Ends; SA182 Type	
2" IPS Sch. 40, two. Flanges; SA182 Type 304 2" 300# LJ, two. Total length	gth
45.00". Design pressure 300 PSIG @ 340° F. Design verification by analys	sis
per NC3649.4(e) (1) and Code Case N-192-2. Installation to be by Customer,	/Owner
per IM77598. Metal Bellows Part No. 87357 Rev. N/C - S/N 001	
<u>Per 1177300 12:0012 10:10:10:10:10:10:10:10:10:10:10:10:10:1</u>	
<del></del>	
We certify that the statements made in this report are correct and that the fabrication of the described piping conforms with the requirements of SECTION III of the ASME BOILER AND PRESSURE-VESSEL CODE.	
Date 7-17-90 Signed Metal Bellows Div. By Stuck Charles	
Certificate of Authorization Expires June 2, 1992 Certificate of Authorization No. N-2801	
CERTIFICATE OF SHOP INSPECTION	
I, the undersigned, holding a valid commission issued by the National Board of Boller and Pressure Vessel Inspectors and/or the State or Province of CHI FDFN and employed by NGE LUL of NACT FORD, CT	
have inspected the piping described in this Data Report on 2-171990, and state that to the best of my knowledge and belief, the Manufacturer has constructed this piping in accordance with the applicable Subsections of ASME Code,	,-
Section III.	
The size ing this contificate, pointer the inspector are his employer make any warranty expressed or implied, concerns	
By signing this certificate, neither the Inspector nor his employer make any warranty, expressed or implied, concern- ing the piping in this Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner	







Date: 9/10/90 Sheet: 1 of 1

Unit: WNP-2

### FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

1. Owner: Washington Public Power Supply System (WPPSS)

Address: 3000 George Washington Way, Richland, WA

2. Plant: WPPSS Nuclear Power Plant (WNP)

Address: Hanford, Benton County, WA

- 3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA
  - (b) Repair Organization P.O. No., Job No., etc.: WPPSS
- 4. Identification of System: Containment Supply Purge (CSP) System
- 5. (a) Applicable Construction Code ASME Section III: 1974 Edition with Winter 1975 Addenda, Code Case: None
  - (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
- 6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
CSP-V-96	Target Rock	3	N/A	N/A	1983	Repair/ Replacement	Yes, Code Class 2

- 7. Description of Work: Performed work on valve CSP-V-96. The work was performed as follows
  - 1) Cut body to bonnet seal weld
  - 2) Removed valve internals for troubleshooting
  - 3) Reinstalled valve internals and installed new replacement disc
  - 4) Installed bonnet into valve body and torqued it to the required torque value
  - 5) Made body to bonnet seal weld
  - 6) Performed PT examination on the final seal weld. PT examination results acceptable

1	WASHINGTON	PUBLIC	POWER
	SUPPLY	SYS	TEM

	FORM NIS-2 (Back)
8.	Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other X None Test Pressure: Psig Test Temperature: °F Component Design Pressure: Psig Temperature: °F
9.	Remarks: See attached N-2 Code Data Report for the new replacement disc Serial No 788
	CERTIFICATE OF COMPLIANCE
	We certify that the statements made in the report are correct and this repair/replacement conforms to the rules of the ASME Code, Section XI.  Type Code Symbol Stamp: Not applicable  Certificate Authorization No.: Not applicable  Expiration Date: Not Applicable
	Prepared by Quidib Signed by Plant Technical Manager
	Date 9/10/70 Date 9-70-70
	CERTIFICATE OF INSERVICE INSPECTION
	I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period \frac{7/30/90}{1/30/90} to \frac{9/10/90}{1/90} and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.  By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied,
	concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
	And Ling Commissions 9556 W Inspector's Signature National Board, State, and Endorsements
	Date

RAN NO. 2-0625

# CENTERCATE HOLDERS, DATA REPORT FOR EDENTICAL Qualify English MUCLEAR PARTS AND APPURTENANCES. WHICH TO REMARK OF the ASSET Code, Section III Not To Remark On the ASSET Code, Section III

Not To Especial One Day's Production

Pg.	_1	ol	

1.	Manufactured and certified by	Target Rock Corp.	, 1965E Broad	Shollow Rd, E. Far	mingdale, NY 11735
2.	Monutectured for Washing	ton Public Power	Supply Syste	m, Richland, MA	
3.	Location of installation Washi	ington Muclear Pl	lant 2, Richild	and, KA	
4.	Type 202337-1 Rev. E	SA-479 316	75 KSI	H/A	1989
	ASME Code, Section III:	1974	W 75	2	N/A
		(addition)	N/A	Revision N/A	Case Case rei
	Fabricated in accordance with C	-	(ma.)		=
7.	Remarks: Spare Parts	for a completed	valve, Models	7911-001, 8311-0	
	***		·,,,,,		

Die. 10 (ft & in.) N/A H/A N/A N/A 8. Nom. thickness (in.) Min. design thickness (in.) ..

9. When applicable, Cartificate Holders' Data Reports are attached for each	item of this report:
-----------------------------------------------------------------------------	----------------------

Pert or Appurtenence Serial Number	National Board No. in Numerical Order	Part or Appursonance Seriel Number	Heterel Beard Humber in Numerical Order
779	N/A	(26)	
816	N/A.	(27)	
788 824	N/A	(28)	
824	N/A	(20)	
782	N/A	(30)	
760	N/A	(31)	
762	N/A	(32)	
N/A	N/A	(33)	
		(34)	
		(38)	
		(37)	
		(38)	
*		(39)	
		(40)	
		(41)	
		(42)	
		(43)	
		(44)	
		(45)	
		(46)	
		148)	
		(49)	
		150)	

CENTRICATE OF SHOP COMPUTANCE

We cartify that the accommence made in this report are control and that this (finance to the rules of construction of the ASME Code, Section III.

NPT Certificate of Authorization No. 1948

Target Rock Corporation

Some 2. Bujuda 2. Bujuda 2. Bujuda 2. Bujuda 3. Bu

#### CERTIFICATE OF SHOP INSPECTION

	61
I, the undersigned, helding a valid commission leaved by the National Spard of State and Propagate Vessel Impactors and the State or Province New York and employed by Commercial Union Insurance Company	of.
of Boston, Mass. have inspected these leave described in this Data Report on 4/4/59, and seems shee to the	<b>N</b>
best of my knowledge and belief, the Cartiflesta Helder has fabricated these parts or appartenences in accordance with the ASME Code. Section	•
M. Each part liesed has been authorized for stemping on the date shown above.	
By signing this certifices, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the equipment describe	
in this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property demagn	œ
4 (1) (4)	22

**I** 



### FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

Owner: Washington Public Power Supply System (WPPSS)
 Address: 3000 George Washington Way, Richland, WA

Date: 8/20/90 Sheet: 1 of 1 Unit: WNP-2

2. Plant: WPPSS Nuclear Power Plant (WNP)

Address: Hanford, Benton County, WA

- 3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA
  - (b) Repair Organization P.O. No., Job No., etc.: WPPSS
- 4. Identification of System: Reactor Water Clean Up (RWCU) System
- 5. (a) Applicable Construction Code ASME Section III: 1974 Edition with Summer 1976 Addenda, Code Case: None
  - (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
- 6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
RWCU-V-229B	Xomox	89665D	N/A	N/A	1977	Replacement	Yes, Code Class 3

7. Description of Work: Replaced existing stem/plug assembly with new replacement stem/plug assembly for valve RWCU-V-229B

<i>(</i>	MASHINGTON	PUBLIC POWER
	SUPPLY	SYSTEM

	FORM NIS-2 (Back)
8. 1	Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other X None  Test Pressure: Psig Temperature: °F  Component Design Pressure: Psig Temperature: °F
9. F	Remarks: None
	CERTIFICATE OF COMPLIANCE
	We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.  Type Code Symbol Stamp: Not applicable  Certificate Authorization No.: Not applicable  Expiration Date: Not Applicable  Prepared by Signed by Flant Technical Manager  Date 3120/90  Date 3-21-90
	CERTIFICATE OF INSERVICE INSPECTION
	Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 8/1/90 to 8/21/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.  By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.    Commissions 9550 W   National Board, State, and Endorsements





### FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

1. Owner: Washington Public Power Supply System (WPPSS)
Address: 3000 George Washington Way, Richland, WA

Date: 8/23/90 Sheet: 1 of 1

2. Plant: WPPSS Nuclear Power Plant (WNP)

Unit: WNP-2

Address: Hanford, Benton County, WA

3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA

(b) Repair Organization P.O. No., Job No., etc.: WPPSS

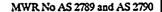
- 4. Identification of System: Reactor Water Clean Up (RWCU) System
- 5. (a) Applicable Construction Code ASME Section III: 1971 Edition with Winter 1973 Addenda, Code Case: None
  - (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
- 6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
RWCU(1)-4	WPPSS	RWCU(1)-4-P2	N/A	N/A	1983	Replacement	Yes, Code Class 3

7. Description of Work: Replaced existing relief valve RWCU-RV-2 and installed a blind flange (on the inlet piping) in place

	SUPPLY SYSTEM	PLAN NO. 2-0627							
	FORM NIS-2 (Back)								
8.	8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure  Test Pressure: Psig Test Temperature: OP  Component Design Pressure: Psig Temperature: OP	Other X None							
9.	9. Remarks: None								
	· CERTIFICATE OF COMPLIANCE								
	We certify that the statements made in the report are correct and this replacement confor ASME Code, Section XI.  Type Code Symbol Stamp: Not applicable  Certificate Authorization No.: Not applicable	rms to the rules of the							
	Expiration Date: Not Applicable  Prepared by Unap Signed by Plant Technical	I Manager							
	Date 8/23/90 Date 8-23-90								
1									
	CERTIFICATE OF INSERVICE INSPECTION								
•	I, the undersigned, holding a valid commission issued by the National Board of Board of Board Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Mutual System) of Norwood, Massachusetts have inspected the components described during the period 8/6/90 to 8/25/90 and state to the best of my kn Owner has performed examinations and taken corrective measures described in this Oraccordance with the requirements of the ASME Code, Section XI.  By signing this certificate neither the Inspector nor his employer makes any warrant concerning the examinations and corrective measures described in this Owner's Report the inspector nor his employer shall be liable in any manner for any personal injury or loss of any kind arising from or connected with this inspection.	Company (Factory in the Owner's Report nowledge and belief, the wner's Report in  ty, expressed or implied, t. Furthermore, neither							
	And Locate Commissions 95564  /Inspector's Signature National Board	1, State, and Endorsements							
	7 7 suspense a cignature individual Doute	, week, and whooleditelle							

Date



Date: 10/19/90

Sheet: 1 of 1

Unit: WNP-2

### FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

1. Owner: Washington Public Power Supply Yes, Code Class 1System (WPPSS)

Address: 3000 George Washington Way, Richland, WA

2. Plant: WPPSS Nuclear Power Plant (WNP)

Address: Hanford, Benton County, WA

- 3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA
  - (b) Repair Organization P.O. No., Job No., etc.: WPPSS
- 4. Identification of System: Residual Heat Removal (RHR) System, Reactor Recirculation (RRC) System and Main Steam(MS) System
- 5. (a) Applicable Construction Code ASME Section III: 1971 Edition with Winter 1973 Addenda, Code Case: None
  - (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
- 6. Identification of Components Repaired or Replaced and Replacement Components

Name of	Name of	Manufacturer	National	Other	Year	Repaired,	ASME Code
Component	Manufacturer	Serial No.	Board	I.D.	Built	Replaced, or	Stamped
•		,	No.		1	Replacement	(Yes or No)
							Code Class
RRC(51)-4	WPPSS	RRC(51)-4-P1	N/A	N/A	1983	Replacement	Yes, Code Class 1
RRC(7)-4S	WPPSS	RRC(7)-4S-P1	N/A	N/A	1983	Replacement	Yes, Code Class 1
MS(1)-4B	WPPSS	MS(1)-4B -P3	N/A	N/A	1983	Replacement	Yes, Code Class 2
MS(1)-4A	WPPSS	MS(1)-4A -P4	N/A	N/A	1983	Replacement	Yes, Code Class 2
					Į l		
		<u> </u>	}	ł			
		•	ł	1			
1			l				
						•	
L	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u></u>	<u></u>	<u> </u>

- 7. Description of Work: 1) Replaced snubber on hanger RHR-SB-30 with new snubber Replacement snubber information:
  PSA-10, S/N 14555 snubber was removed from RFW-168 which was deleted as part of snubber optimization at R5.
  - Replaced snubber on hanger RHR-SB-34(T) with new snubber Replacement snubber information:
     PSA-10, S/N 9931 snubber was removed from RFW-153 which was deleted as part of snubber optimization at R5.
  - Replaced snubber on hanger MS-145 with new snubber Replacement snubber information:
     PSA-10, S/N 14556 snubber was removed from RFW-168 which was deleted as part of snubber optimization at RS.
  - 4) Deleted snubber for hanger MS-256(T) per MWR AS-2790

6	XASHUNGTON :	PUBLIC POXER
S	SUPPLY	SYSTEM

	SUPPLY SYSTEM MWR No AS 2789 and AS-2790
	FORM NIS-2 (Back)
8.	Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other X None Test Pressure: Psig Test Temperature: OF Component Design Pressure: Psig Temperature: OF
9.	Remarks: Snubber operability test preformed on replacement snubbers.
	•
	CERTIFICATE OF COMPLIANCE
*	We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.  Type Code Symbol Stamp: Not applicable Certificate Authorization No.: Not applicable Expiration Date: Not Applicable  Prepared by  Signed by  Plant Technical Manager
	Date
	CERTIFICATE OF INSERVICE INSPECTION
d	I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 4/11/40 to 8/1/40 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.  By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.  Commissions  1556.00  National Board, State, and Endorsements
	Date /0/19/90
	Date /0/19/4/)

## FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

1. Owner: Washington Public Power Supply System (WPPSS)
Address: 3000 George Washington Way, Richland, WA

Date: 6/25/90 Sheet: 1 of 1 Unit: WNP-2

 Plant: WPPSS Nuclear Power Plant (WNP) Address: Hanford, Benton County, WA

3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA

(b) Repair Organization P.O. No., Job No., etc.: WPPSS

4. Identification of System: Main Steam (MS) System And Residual Heat Removal (RHR) System

5. (a) Applicable Construction Code ASME Section III: 1971 Edition with Winter 1973 Addenda, Code Case: None

(b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308

6. Identification of Components Repaired or Replaced and Replacement Components

Name of	Name of	Manufacturer	National	Other	Year	Repaired,	ASME Code
Component	Manufacturer	Serial No.	Board	I.D.	Built	Replaced, or	Stamped
			No.		1	Replacement	(Yes or No)
						-	Code Class
B22-G001A	WPPSS	B22-G001A	N/A	N/A	1983	Replacement	Yes, Code Class 1
MS(18)-2-4	WPPSS	MS(18)-2-4	N/A	N/A	1983	Replacement	Yes, Code Class 3
MS(18)-2-1	WPPSS	MS(18)-2-1.	N/A	N/A	1983	Replacement	Yes, Code Class 3
MS(18)-2-2	WPPSS	MS(18)-2-2	N/A	N/A	1983	Replacement	Yes, Code Class 3
MS(18)-2-3	WPPSS	MS(18)-2-3	N/A	N/A	1983	Replacement	Yes, Code Class 3
RHR(1)-4A	WPPSS	` RHR(1)-4A	N/A	N/A	1983	Replacement	Yes, Code Class 1
RHR(1)-4B	WPPSS	RHR(1)-4B	N/A	N/A	1983	Replacement	Yes, Code Class 1
RHR(1)-4C	WPPSS	RHR(1)-4C	N/A	N/A	1983	Replacement	Yes, Code Class 1
		l ''	<b>l</b> '	'	1		
1							
	l	l	1	l		·	<u> </u>

7. Description of Work: Deleted snubbers for the following hangers-

MSRV-4A-8

B22-G001A	MS(18)-2-4	MS(18)-2-1	MS(18)-2-2	MS(18)-2-3	RHR(1)-4A	RHR(1)-4B
MS-SA-3	MSRV-4A-1	MSRV-1A-1	MSRV-2A-1	MSRV-3A-1	RHR-380	RHR-387
MS-SA-5	MSRV-4A-3	MSRV-1A-2	MSRV-2A-3	MSRV-3A-3		
MS-SA-6	MSRV-4A-4	MSRV-1A-5	MSRV-2A-4	MSRV-3A-5		
MS-SA-9	MSRV-4A-5	MSRV-1A-6	MSRV-2A-5			
MS-SA-10	MSRV-4A-7					

RHR(1)-4C RHR-281

TASHDOGICM	PUBLIC POREM
SUPPLY	SYSTEM

	134 K. 10 C. 10 Z 170
	FORM NIS-2 (Back)
8.	Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other X No Test Pressure: Psig Test Temperature: °F Component Design Pressure: Psig Temperature: °F
9.	Remarks: None
[	
	CERTIFICATE OF COMPLIANCE
	We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.  Type Code Symbol Stamp: Not applicable Certificate Authorization No.: Not applicable Expiration Date: Not Applicable
	Prepared by Quidity Sure FOR TEH Signed by Plant Technical Manager
	Date 6/25/70. Date 6-27-90
	CERTIFICATE OF INSERVICE INSPECTION
ş	I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period $\frac{4/z/40}{2}$ to $\frac{6/27/40}{2}$ and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.
	By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
	Ann Hoggarth Commissions 9556 W
	Commissions 9556 W Inspector's Signature National Board, State, and Endorsements  Date 4/27/90
_	



Date: 9/10/90

### FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

1. Owner: Washington Public Power Supply System

Address: 3000 George Washington Way, Richland, WA

Sheet: 1 of 1 Unit: WNP-2

2. Plant: WPPSS Nuclear Power Plant (WNP)

Address: Hanford, Benton County, WA

3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA

(b) Repair Organization P.O. No., Job No., etc.: WPPSS

4. Identification of System: Control Rod Drives (CRD's)

5. (a) Applicable Construction Code ASME Section III: (See Below) Edition with (See Below) Addenda, Code Case (See Below)

(b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition, Winter 1980 Addenda, Code Case: N-308

6. Identification of Components Repaired or Replaced and Replacement Components

Name of	Name of	Manufacturer	National	Other	Year	Repaired,	ASME Code
Component	Manufacturer	Serial No.	Board	I.D.	Built	Replaced, or	Stamped
		,	No.			Replacement	(Yes or No)
							Code Class
CRD's	GE	See Below	N/A	N/A	See Below	Replacement	Yes, Class 1

7. Description of Work: Replaced thirty five (35) Control Rod Drives (CRD's). The replacement work was performed as follows:
1) Removed thirty five (35) existing CRD's, 2) Installed replacement CRD's, 3) Installed new replacement cap screws for all the CRD flange connections except for flange connection for core location 34-47, 4) Torqued the cap screws for the CRD flange connections to the required torque values, 5) Performed pressure test on CRD flange connections. Some leakage was observed during pressure test. The leakage was determined to be acceptable

Core	CRD Removed	Code Year	CRD Replaced	Code Year	Year	Code
Location	Serial Number	And Addenda	Serial Number	And Addenda	Built	Case
02-19	6389	1971	6309	1971	1975	1361-1
02-39	7041	1971	A8738	74/W75	1988	1361-2
06-15	5409	1971	7326	1971	1975	1361-1
06-19	5106	1971	2989	1971	1975	1361-1
10-23	6431	1971	A8552	74/W75	1988	1361-2
10-27	5393	1971	7320	1971	1975	1361-1
10-27	7028	1971	A8562	74/W75	1988	
10-51	6625	1971				1361-2
			A8517	74/W75	1987	1361-2
14-11	6578	1971	5106	1971	1974	1361-1
14-23	6303	1971	6200	1971	1975	1361-1
14-27	6510	1971	A8503	74/W75	1987	1361-2
14-39	6534	1971	6709	1971	1975	1361-1
14-43	6346	1971	4608	1971	1975	1361-1
14-51	7151	1971	6717	1971	1975	1361-1
18-03	7000	1971	7041	1971	1975	1361-1
18-23	7338	1971	6410	1971	1974	1361-1
18-39	6227	1971	5393	1971	1974	1361-1
18-55	6725	1971	A8460	74/W75	1988	1361-2
22-35	6091	1971	A8461	74/W75	1988	1361-2
26-03	6190	1971	6534	1971 ,	1974	1361-1
26-19	7143	1971	A8577	74/W75	1988	1361-2
26-35	7138	1971	A8748	74/W75	1988	1361-2
26-47	6399	1971	5409	1971	1974	1361-1
26-51	5374	1974	A8540	74/W75	1987	1361-2
34-03	<i>7</i> 327	1971	6389	1971	1974	1361-1
34-11	7155	1971	A8655	74/W75	1988	1361-2
34-19	6723	1971	A8727	74/W75	1989	1361-2
34-23	7120	1971	7028	1971	1975	1361-1
34-47	6701	1971	6319	1971	1974	1361-1
34-55	6255	1971	A8750	74/W75	1988	1361-2
38-19	7272	1971	7151	1971	1975	1361-1
38-43	6671	1971	A8722	74/W75	1988	1361-2

FORM NIS-2 (Back)								
<u>Core</u> <u>Location</u> 38-59 42-03 42-27	CRD Removed Serial Number A916 6282 7346	Code Year And Addenda 1971 1971 1971	CRD Replaced Serial Number A8740 A8470 6505	<u>Code Year</u> <u>And Addenda</u> 74/W75 74/W75 1971	Year Built 1988 1988 1975	Code Case 1361-2 1361-2 1361-1		
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other None  Test Pressure: Psig Test Temperature: Pressure: 1250 Psig Temperature: 575 Psig Temperature: 575 Psig Psig Temperature: 575 Psig Psig Temperature: 575 Psig Psig Temperature: 575 Psig Psig Psig Psig Psig Psig Psig Psig								
		CERTIFICATE	OF COMPLIAN	CE	,			
rules of the ASME Type Code Symbo Certificate Author	Plant Technical Manager							
	CER	rificate of i	NSERVICE INSP	ECTION				
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 320/90 to 9/10/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.  By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.  Commissions  Osciological Research  National Board, State, and Endorsements								
Date <u>9/10</u>	1/90							



#### FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

1. Owner: Washington Public Power Supply System

Date: 5/19/90

Address: 3000 George Washington Way, Richland, WA

Sheet: 1 of 1

2. Plant: WPPSS Nuclear Power Plant (WNP)

Unit: WNP-2

Address: Hanford, Benton County, WA

- 3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA
  - (b) Repair Organization P.O. No., Job No., etc.: WPPSS
- 4. Identification of System: Control Rod Drive (CRD)
- 5. (a) Applicable Construction Code ASME Section III: 1971 Edition with no Addenda, Code Case: None
  - (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition, Winter 1980 Addenda, Code Case: N-308
- 6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
CRD	GE	6625	N/A	N/A	1975	Replacement	Yes, Class 1
.CT&F	GE	A8461	N/A	N/A	1988	Replacement	Yes, Class 1

#### 7. Description of Work:

- > Existing Control Rod Drive (CRD) Serial Number 6625, ASME Section III, Code Class 1, 1971 Edition with no Addenda
- > New replacement Cylinder Tube and Flange (CT&F) assembly Serial Number A8461, ASME Section III, Code Class 1, 1974 Edition with Winter 1975 Addenda
- > Disassembled CRD for overhaul. Performed PT examination on the CT&F assembly, PT examination results were evaluated to be unacceptable. Performed visual examination on the piston tube assembly. Visual examination results acceptable. Reassembled CRD parts and installed new replacement CT&F assembly.
- > Note: The entire CRD assembly is now identified by the new replacement CT&F serial number

	SUPPLY SYSTEM MWR No AS 2905
	FORM NIS-2 (Back)
8.	Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other X None Test Pressure: Psig Test Temperature: °F Component Design Pressure: Psig Temperature: °F
9.	Remarks: See attached N-2 Code Data Report for new replacement Cylinder Tube and Flange (CT&F) assembly Serial Number A8461
	•
	CERTIFICATE OF COMPLIANCE
	We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.  Type Code Symbol Stamp: Not applicable  Certificate Authorization No.: Not applicable  Expiration Date: Not Applicable  Prepared by Ludy Sup Signed  Plant Technical Manager  Date 511990  Date 5-2-50
	CERTIFICATE OF INSERVICE INSPECTION
	I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 5/4/90 to 5/22/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.  By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.  Commissions
	Inspector's Signature National Board, State, and Endorsements

Date

MWR AS 2905 Revolp Emps 5/19/90

#### FORM H-2 HPT CRETIFICATS HOUSES' DATA REPORT FOR HOUSEAR PART AND APPORTMENTS'S AS required by the Provision of the ASE Code Rules, Section III, Div. 1

1. Manufactured & Certified by: GE Comcany, 2117 Castle Hayne Rd., Wilmington, N.C. 28402 (Name and Accress or NPT Certificate Holder)
(b) Manufactured for: WNF-2, RICHLAND, Wa. 99352 (Name and Address of N Certificate bolder for completed nuclear component)
2. Identification-Certificate Holders's S/N of Part: A8461 Nat'l Ed. No. N/A
(a) Constructed According to Drawing No: 919D258G003 Dwg. Prepared by D. L. Peterson
(b) Description of Part Inspected: CYLINDER TUBE & FLANGE
(c) Applicable ASME Code: Section III, Edition 1974, Addenda Date W 75 Case No. 1361-2 Class 1
3. REMARKS: Sub-assembly of Control Red Drive for use with reactor.  (Brier description of service for which component was designed)  Rydrostatically tested at 1825 psi. min.
*Sheet 1 of 2
We certify that the statements in this report are correct and this vessel part or apportenance as defined in the code conforms to the rules of construction of the ASME Code Section III. (The applicable Designed Specification and Stress Report are not the responsibility of the NPT Certificate Holder for parts. An NPT Certification Holder for apportenances is responsible for furnishing a separate Design Specification and Stress Report if the apportenance is not included in the component Design Specification and Stress Report).
THE 12/31 ,19 88 Signed GZ-NESG-NESCY-CA BY THE MILE OF CANADICAL BY THE CANADICAL BOLICER)
Certificate Of Authorization Expires: 6/16/90 Certification of Authorization No.: NPT N-1151
· CRETIFICATION OF DESIGN FOR APPRECIMENCS
Design information on file at GZ COMPANY, SAN JOSE, CALIFORNIA
Design information on file at GZ COMPANY, SAN JOSE, CALIFORNIA  Stress analysis report on file at GZ COMPANY, SAN JOSE, CALIFORNIA  DC:22A6253 Rev. 0  Design specification certified by BJCRN HAABERG Prof. Róg. State CALIF. Reg. No. 15570  DC:22A6254 Rev. 0.
Design information on file at GZ COMPANY, SAN JOSE, CALIFORNIA  Stress analysis report on file at GZ COMPANY, SAN JOSE, CALIFORNIA  CC22A6253 Rev. 0  Design specification certified by BICAN HAARENG Prof. Eng. State CALIF. Reg. No. 15570  CC22A6254 Rev. 0.  Stress analysis report certified by EXAMO YOSHO Prof. Eng. State CALIF. Reg. No. MO18646  I, the undersigned, holding a walld commission by the National Board of Boiler and Pressure Inspectors and/or the State or Province of NORTH CAROLINA and employed by EXAMONITY OF LABOR of STATE OF NORTH CAROLINA have inspected the part of a pressure versal described in this Partial Data Report on 12 - 3/ 19 88, and state that to the best of my incolledge and baller, the NPT Certificate solder has constructed this part in accordance with the ASME Code Section III.  By signing this certificate, neither the Inspector nor his employer makes any vermanty, expressed or implied, concerning the part described in the Partial Data Report. Purthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damages or a loss of any kind arising from or connected with this inspection.  12 - 3/ 1988
Design information on file at GZ COMPANY, SAN JOSE, CALIFORNIA  Stress analysis report on file at GZ COMPANY, SAN JOSE, CALIFORNIA  CC22A6253 Rev. 0  Design specification certified by BICAN HAARENG Prof. Eng. State CALIF. Reg. No. 15570  CC22A6254 Rev. 0.  Stress analysis report certified by EXAMO YOSHO Prof. Eng. State CALIF. Reg. No. MO18646  I, the undersigned, holding a walld commission by the National Board of Boiler and Pressure Inspectors and/or the State or Province of NORTH CAROLINA and employed by EXAMONITY OF LABOR of STATE OF NORTH CAROLINA have inspected the part of a pressure versal described in this Partial Data Report on 12 - 3/ 19 88, and state that to the best of my incolledge and baller, the NPT Certificate solder has constructed this part in accordance with the ASME Code Section III.  By signing this certificate, neither the Inspector nor his employer makes any vermanty, expressed or implied, concerning the part described in the Partial Data Report. Purthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damages or a loss of any kind arising from or connected with this inspection.  12 - 3/ 1988

VERIFIED & ACCEPTED -

R.I. Inspector

(10/77)

### MWR AS 2905

5/N A 8461 Luaip Eup's 1/19/89.

#### FORM N=2 (back)

		vessels, or shells of heat exchangers.
A Shalla Mahamial T.S. This	inal Corresion	in Diaftin. Length_ftin.
(X Ind & Some No.) (Min.	ofRenow Specified)	
5. Seans: LongH.T.1	R.T	EfficiencyS
Girth H.T.1	R.T.	No. of Courses
Girth H.T.1	T.S(b)Hater	ialT,S
		Homispherical Flat Side to Press.
Entton Ends) Thickness Radius R		ls Radius Dissets (conv.or conc.)
(a)		
(b) If Temovaple, bolts used		stening
(Material, Spec. No.,	T.S. Size Number)	(Describe or attach sketch)
7. Jacket Closures	-	
(Describe as ogee and 8. Design Pressure 2 1250	setaiostisca il net dise	Drop Weight
8. Design Pressure 2 1250	nsi_st575	Cherpy Ispact ft-1b
	1	at temp, of of
Items 9 and 10 to be completed for two	e sections.	
	•	This is a second
(Kind	of Spac, No.) (Subjeto P	Thickness in. Attachment Treas.) (Welded, Bolted)
Floating. Material	DiaT	hickness in. Attacheent
to The Mahamlah	inc	thes.
IG. Tubes: Material O.D.	or	(Str. or U)
Items 11-14 incl. to be completed for	inner chambers of iscketed	t vessels, or channels of heat exchangers
11. Shell: MaterialT.SThick	nessin. Allowancsin.	OisftinLongthftin.
(Kind&Spec.No.) (Min.ofRa	unge Specified)	
12. Seess: Long H.T.1	R.T. Efficiency	,;;
12. Seass: Long H.T.1 Girth H.T.1	R.TNo. of Cou	IESes
Location Crown X	T.S. (b	) Material T.S. Howispherical Fat Side to Press
(a)Too, Bottom, Tichkesm Radium R	ladius Ratio Apex Ang	ple Radius Diameter (Conv.or Conc.)
End		
(b)Channel If removable, bolts used (a) (	b) (c) Other Fa	ataning
•		
• •		Orap Weight
14. Design pressure <sup>2</sup>	oni at	Charpy Impact ft-lb
Itams below to be completed for all ve	essels where soolicable.	
15. Safety Valve Outlets: Number	Size	Location
16 Namalana	A	
16. Nozzles: Purpose (Inlet		Reinforcement
	or Size Type Materia	
,	<del></del>	
17. Inspection Manholes, No	· \$1==	Location
Openings: Handles, No.	Size	Location
Thresded, No	Size	Location
18. Supports: Shirt	.ugsLegs	
(Yes or Mo)  1 If Postweld Hest-Treated.	(Number) (Number	r) (Describe) (Where & How)
•		
List other internal or external pres	ssure with conincident tem	perature when applicable.



#### FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

1. Owner: Washington Public Power Supply System Address: 3000 George Washington Way, Richland, WA Date: 5/19/90

2. Plant: WPPSS Nuclear Power Plant (WNP)

Sheet: 1 of 1

Unit: WNP-2

Address: Hanford, Benton County, WA

- 3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA
  - (b) Repair Organization P.O. No., Job No., etc.: WPPSS
- 4. Identification of System: Control Rod Drive (CRD)
- 5. (a) Applicable Construction Code ASME Section III: 1971 Edition with no Addenda, Code Case: None
  - (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition, Winter 1980 Addenda, Code Case: N-308
- 6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other LD.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
CRD	ge	6303	N/A	N/A	1974	Replacement	Yes, Class 1
CT&F	ge	A8655	N/A	N/A	1988	Replacement	Yes, Class 1

#### 7. Description of Work:

- > Existing Control Rod Drive (CRD) Serial Number 6303, ASME Section III, Code Class 1, 1971 Edition with no Addenda
- > New replacement Cylinder Tube and Flange (CT&F) assembly Serial Number A8655, ASME Section III, Code Class 1, 1974 Edition with Winter 1975 Addenda
- > Disassembled CRD for overhaul. Performed PT examination on the CT&F assembly. PT examination results were evaluated to be unacceptable. Performed visual examination on the piston tube assembly. Visual examination results acceptable. Reassembled CRD parts and installed new replacement CT&F assembly.
- > Note: The entire CRD assembly is now identified by the new replacement CT&F serial number

A	KARROT STIEUR HOSTONIERAN
	SUPPLY SYSTEM

^	
FORM NIS-2 (Back)	
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other X  Test Pressure: Psig Test Temperature: °F  Component Design Pressure: Psig Temperature: °F	] Non
9. Remarks: See attached N-2 Code Data Report for new replacement Cylinder Tube and Flange (CT&F) assembly Serial Number A	.865 <i>5</i>
	=
CERTIFICATE OF COMPLIANCE	
We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.  Type Code Symbol Stamp: Not applicable  Certificate Authorization No.: Not applicable  Expiration Date: Not Applicable	•
Prepared by Rulcip Suph Signed Plant Technical Manager	
Date 5/19/90 Date 5-21-90	
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Ve Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Repeduring the period $5/2/90$ to $5/22/90$ and state to the best of my knowledge and belief, Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.  By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or impliconcerning the examinations and corrective measures described in this Owner's Report. Furthermore, neit the inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected with this inspection.	ort the ied,
Commissions 9552 W Inspector's Signature National Board, State, and Endorsement	
Date <u>5/22/90</u>	

MWR AS 2907

FORM H-2 NPT CERTIFICATE BOIDERS' DATA REPORT FOR NOCIEAR PART AND APPRECIANCES - 5/19/9

As required by the Provision of the ASME Code Riles, Section III, Div. 1
Manufactured & Certified by: GE Company, 2117 Castle Hayne Rd., Wilmington, N.C. 28402 (Name and Address of NPT Certificate Holder)
(Name and Address of NPT Certificate Holder) (b) Manufactured for: WNP-2, RICHLAND, Wa. 99352  (Name and Address of N Certificate Holder for completed nuclear component)
(Name and Address of N Certificate Bolder for completed nuclear component)
Identification-Certificate Bolders's S/N of Part: A8655 Nat'l Ed. No. N/A  (a) Constructed According to Drawing No: 919D258G003 Dwg. Prepared by D. L. Peterson
(b) Description of Part Inspected: CYLINDER TUBE & FLANGE '
(c) Applicable ASME Code: Section III, Edition 1974, Addenda Date W'75 Case No. 1361-2 Class 1
MEMARKS: Sub-assembly of Control Rod Drive for use with reactor.
(Brier description of service for which component was designed) Hydrostatically tested at 1825 psi. min.
heet 1 of 2
e certify that the statements in this report are correct and this vessel part or appurtenance defined in the code conforms to the rules of construction of the ASVE Code Section III. The applicable Designed Specification and Stress Report are not the responsibility of the NPT partificate Holder for parts. An NPT Certification Holder for appurtenances is responsible in furnishing a separate Design Specification and Stress Report if the appurtenance is not included in the component Design Specification and Stress Report).
VIE: 5/27,19 88 Signed GE-NEBG-NF&CM-QA By
TE: 5/27 ,19 88 Signed GE-NEBG-NFSCM-QA By Will  (NPT Certificate Bolder)  The Of Authorization Expires: 6/16/90 Certification of Authorization No.: NPT N-1151
The late of Authorization Explies: 6/16/90 Certification of Authorization No. • NPP N=1151
CERTIFICATION OF DESIGN FOR APPERTMENCE
Sign information on file at GZ COMPANY, SAN JOSE, CALIFORNIA GZ COMPANY, SAN JOSE, CALIFORNIA CALIFORNIA CALIFORNIA CALIFORNIA CALIFORNIA CALIFORNIA CALIFORNIA CALIFORNIA CALIFORNIA CALIFORNIA CALIFORNIA CALIFORNIA CALIFORNIA CALIFORNIA CALIFORNIA CALIFORNIA CALIFORNIA CALIFORNIA CALIFORNIA CALIFORNIA CALIFORNIA CALIFORNIA CALIFORNIA CALIFORNIA CALIFORNIA CALIFORNIA CALIFORNIA CALIFORNIA CALIFORNIA CALIFORNIA CALIFORNIA CALIFORNIA CALIFORNIA CALIFORNIA CALIFORNIA CALIFORNIA CALIFORNIA CALIFORNIA CALIFORNIA CALIFORNIA CALIFORNIA CALIFORNIA CALIFORNIA CALIFORNIA CALIFORNIA
Sign information on file at GZ COMPANY, SAN JOSE, CALIFORNIA GZ COMPANY, SAN JOSE, CALIFORNIA Z2A6253 Rev. 0 Sign specification certified by BJORN HAABERG Prof. Eng. State CALIF. Reg. No. 15570
Sign information on file at GZ COMPANY, SAN JOSE, CALIFORNIA  Tess analysis report on file at GZ COMPANY, SAN JOSE, CALIFORNIA  22A6253 Rev. 0  Sign specification certified by BJORN HAAHERG Prof. Eng. State CALIF. Reg. No. 15570
Sign information on file at GZ COMPANY, SAN JOSE, CALIFORNIA GZ COMPANY, SAN JOSE, CALIFORNIA Z2A6253 Rev. 0 Sign specification certified by BJORN HAABERG Prof. Eng. State CALIF. Reg. No. 15570
Sign information on file at GE COMPANY, SAN JOSE, CALIFORNIA  Tess analysis report on file at GE COMPANY, SAN JOSE, CALIFORNIA  22A6253 Rev. 0  sign specification certified by BJORN HAAHERG Prof. Eng. State CALIF. Reg. No. 15570  22A6254 Rev. 0.  ress analysis report certified by BJWARD YCSHIO Prof. Eng. State CALIF. Reg. No. M018646
Sign information on file at GE COMPANY, SAN JOSE, CALIFORNIA  Tess analysis report on file at GE COMPANY, SAN JOSE, CALIFORNIA  22A6253 Rev. 0  Sign specification certified by BJORN HAAHERG Prof. Eng. State CALIF. Reg. No. 15570  22A6254 Rev. 0.  Tess analysis report certified by BJWARD YCSHIO Prof. Eng. State CALIF. Reg. No. MO18646  CREIFICATION OF SHEP INSPECTION
sign information on file at GE COMPANY, SAN JOSE, CALIFORNIA  22A6253 Rev. 0  sign specification certified by EJCRN HAABERG Prof. Eng. State CALIF. Reg. No. 15570  22A6254 Rev. 0.  ress analysis report certified by EJWARD YCSHIO Prof. Eng. State CALIF. Reg. No. M018646  CRETIFICATION OF SECT INSPECTION  ; the undersigned, holding a valid commission by the National Board of Boiler and Pressure spectors and/or the State or Province of NORTH CAROLINA and employed by DEPARTMENT OF LABOR STATE OF NORTH CAROLINA have inspected the part of a pressure vessel described in this rual lata Report on 1/27 19/7, and state that to the best of my knowledge i belief, the NPT Certificate Boiler has constructed this part in accordance with the ASME
sign information on file at GE COMPANY, SAN JOSE, CALIFORNIA  Tess analysis report on file at GE COMPANY, SAN JOSE, CALIFORNIA  22A6253 Rev. 0  sign specification certified by BJORN HAABERG Prof. Eng. State CALIF. Reg. No. 15570  22A6254 Rev. 0.  Tess analysis report certified by BJORN HAABERG Prof. Eng. State CALIF. Reg. No. MO18646  CRETIFICATION OF SECT INSPECTION  The undersigned, bolding a valid commission by the National Board of Boiler and Pressure spectors and/or the State or Province of NORTH CAROLLINA and employed by DEPARTMENT OF LABOR STATE OF NORTH CAROLLINA have inspected up part of a pressure vessel described in this related belief, the NFT Certificate Houser has constructed this part in accordance with the ASME is Section III.  Y signing this certificate, neither the Inspector nor his employer makes any warranty, iressed or implied, concerning the part described in the Partial Data Report. Purthermore, ther the Inspector nor his employer shall be liable in any manner for any personal injury property damages or a loss of any kind arising from or connected with this inspection.  N.C. 723 PA WC1766, OHIO
sign information on file at GE COMPANY, SAN JOSE, CALIFORNIA  Tess analysis report on file at GE COMPANY, SAN JOSE, CALIFORNIA  122A6253 Rev. 0  sign specification certified by BJORN HARRERG Prof. Eng. State CALIF. Reg. No. 15570  122A6254 Rev. 0.  Tess analysis report certified by EDWARD YESHIO Prof. Eng. State CALIF. Reg. No. MO18646  CRETEICATION OF SHOP INSPECTION  The undersigned, holding a valid commission by the National Board of Boiler and Pressure spectors and/or the State or Province of NORTH CAROLINA and employed by DEPARTMENT OF LABOR STATE OF NORTH CAROLINA have inspected the part of a pressure vessel described in this trial Data Report on 1/2/7 19/9/, and state that to the best of my knowledge i belief, the NPT Certificate Bolder has constructed this part in accordance with the ASME is Section III.  It signing this certificate, neither the Inspector nor his employer makes any warranty, itessed or implied, concerning the part described in the Partial Data Report. Furthermore, ther the Inspector nor his employer shall be liable in any manner for any personal injury property damages or a loss of any kind arising from or connected with this inspection.

lomental sheets in form of lists, sketches or drawing may be used provided (1) size is 11", (2) information in 1-2 on this Data Report is included on each sheet, and (3) et is numbered and number of sheets is recorded in Item 3. "REMARKSS"

### MWR AS 2907

#### FORM N-2 (back)

Itoms 4-8 Incl.	to be comple					vessels, or s	hells of hes	t exchangers.
. Shell: Mater	.i1 7 c	. No	minei iokaana	Corr	maion (	n Dia de	in I comb	h
· SERTI VECES	(Kind & Spec	). Hall (Min	revidee"	Specifier		" U.H	n. Conde	
. Seeme: Long_	White a shee	ישה, נטה.: ג.ד.ע	. UI NEW YO	P <sub>-</sub> 1		Efficien	~· •	•
. Jeens, Lung				******************	•		~,	
Girth	1	H-T-	L	R-1	t	No. of C	COUPRAG	
Girth . Heada: (a) H	laterial		I.S.		(b)Materi	al	T.S.	
, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,							• • • • • • • • • • • • • • • • • • • •	
Location (Top		Crows	Knuckla	Ellintical	Concial	Hemispheric	al Flat	Side to Pres
Bottom, Ends)								
(-)	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						D-11	(
(a)(b)								
If resovenie,	holts used				Other fac	tecica		
1	(Material	Soec No.	7.5.5	ize Number	-1	(Descri	be or ettech	eketch)
. Jacket Closu		,,0,000000	,,	,	•	(00000		
		S OCCO AC	d wald.t	er.etc. II	bar give	dimensions, i	f boltm. dee	cribe or shet
_	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	·		,	, 100 30	Drop Ye	icht	
. Design Press	nuro 2 175	in	nai	at 57	15 <b>%</b>	Charny	Impact	ft-lb
				,	<del></del>	at teen	. of	• 6
emm 9 and 10 t	n he complet	ed for to	he secti	nos.				
	0 00 00-0100				<del></del>			
. Tube Sheets:	Stationery	Martin.		Dim	_	Thickness	in Attach	ment
. 1000 010000	, 04161014107	(Xin	d of Soc	c. No.) (	Sup into Pr	785.)		Velded Bolte
\$	'lostion, Het	enrial	- U. Upu	Dia	Th	ess.) picknessin	. Attachment	,
•	20000090 1140				inch	ns		
l. Tubes: Hate:	et ml	<b>a.</b> a.	. in.	Thickness	1 050	mon. Number	Type	
	· · · · · · · · · · · · · · · · · · ·			, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				Str. or II)
				<del> </del>			······································	
ems 11-14 incl		lated for			laaleabad			
2. Sense: Long Girth	<u> </u>	[-]	R.T		fficiency_			
	N. 1	• *	<sup>K</sup> - 1 5-	<del></del> ;	ia. at cour	368	<del></del>	
3. Heads (a) Ha Location	TEGLIET			,3.	(a)	Macerial	<del></del>	·s
(a)Top, Bottom,	, ilcness	KEGIUS	XACTUS	KELLO	vbex vudi	B KRGIDE	nramecat	(countab cou
End (h)Chasanal						- <del></del>		
(b)Channel f removable, bo	1 to 1100d (a)		753	(5)	- Chb E			
readvents, oc	ites ased (s)		(0)	- (c)	_ UENGE 7 85		be or attach	
					•	Crop we	ight	Æ-
4. Design press			pai			ec at term	Impact	
. Vesign press	W18-					1 80 0880	. 01	
ess below to t	e completed	for all y	essels w	mere sooli	cable.			
5. Safaty Valve	• Qutlets: Nu	INGGE		Siza	et	Location		
					-	· _ <del></del>		
6. Nozzles:						•		
Purpose (Inl	.st	•			•	_	Reinforces	nt ,
Outlet, Orsi	in) Yusb	er Di	ia or Sia	т Туре	Hatoria)	. Thickness	Material	Attact
,								
7. Inspection	Manholes, N	ia		Slæ		Location		
Openings:	Handles, H	١٥		SLze		Location		
				5120		Location		
	Threeded, N	10						
	Throaded, N				·			<del></del>
3. Swoportz: S	Throaded, N		Lugs:	Lac	• •	Cther	Attached	
-	Threeded, N Shirt (Yos or		Lugs:		ge_ (Nu≡cer)	Cther		here'à How)
i. Supporta: S	Threeded, N Shirt (Yos or		Lugs:	Lac	• •	Cther		here & How)



### FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

 Owner: Washington Public Power Supply System Address; 3000 George Washington Way, Richland, WA Date: 5/19/90 Sheet: 1 of 1 Unit: WNP-2

2. Plant: WPPSS Nuclear Power Plant (WNP)

Address: Hanford, Benton County, WA

- 3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA
  - (b) Repair Organization P.O. No., Job No., etc.:WPPSS
- 4. Identification of System: Control Rod Drive (CRD)
- 5. (a) Applicable Construction Code ASME Section III: 1971 Edition with no Addenda, Code Case: None
  - (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition, Winter 1980 Addenda, Code Case: N-308
- 6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other LD.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
CRD	ge	6510	N/A	N/A	1974	Replacement	Yes, Class 1
CT&F	ge	A8722	· N/A	N/A	1988	Replacement	Yes, Class 1

#### 7. Description of Work:

- > Existing Control Rod Drive (CRD) Serial Number 6510, ASME Section III, Code Class 1, 1971 Edition with no Addenda
- > New replacement Cylinder Tube and Flange (CT&F) assembly Serial Number A8722, ASME Section III, Code Class 1, 1974 Edition with Winter 1975 Addenda
- > Disassembled CRD for overhaul. Performed PT examination on the CT&F assembly. PT examination results were evaluated to be unacceptable. Performed visual examination on the piston tube assembly. Visual examination results acceptable. Reassembled CRD parts and installed new replacement CT&F assembly.
- > Note: The entire CRD assembly is now identified by the new replacement CT&F serial number

	AVEERICE ON	PURIOR PORSE
20.7	STODY Y	CVCTTV
	SUPPLI	SYSTEM

FORM NIS-2 (Back)
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other X Non- Test Pressure: Psig Test Temperature: °F Component Design Pressure: Psig Temperature: °F
9. Remarks: See attached N-2 Code Data Report for new replacement Cylinder Tube and Flange (CT&F) assembly Serial Number A8722
CERTIFICATE OF COMPLIANCE
We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.  Type Code Symbol Stamp: Not applicable Certificate Authorization No.: Not applicable Expiration Date: Not Applicable
Prepared by Qualp Sup Signed Signed Plant Technical Manager
Date
CERTIFICATE OF INSERVICE INSPECTION
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 5/4/90 to 5/22/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.  By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.  Commissions  Gommissions  Ommissions  Ommissions  Associated and Pressure Vessel Insurance Company (Factory Mational Board, State, and Endorsements)
Date <u>5/22/90</u>

### MWR AS 2908

Bulaip Euros

FORM H-2 MPT CERTIFICATE BOLLESS' DATA REPORT FOR HUCLZAR PART AND APPRETAMENTS.\*
As required by the Provision of the ASME Code Rules, Section III, Div. 1

1: Manufactured & Certified by: GZ Company, 2117 Castle Hayne Rd., Wilmington, N.C. 28402 (Name and Accress of NPT Certificate colder)
(b) Manufactured for: WNP-2, RICHIAND, Wa. 99352  (Name and Accress of N Cartificate Bolder for campleted nuclear component)
2. Identification-Certificate Holders's S/N of Part: A8722 Nat'l Bd. No. N/A
(a) Constructed According to Drawing No: 919D258G003 Dwg. Prepared by D. L. Peterson
(b) Description of Part Inspected: CYLINDER TUBE & FLANGE
(c) Applicable ASME Orde: Section III, Edition 1974, Addenda Date W'75 Case No. 1361-2 Class 1
3. REMARKS: Sub-assembly of Control Rod Drive for use with reactor.
(Brief description of service for Which component was designed) Sydrostatically tested at 1825 psi. min.
*Sheet 1 of 2
We certify that the statements in this report are correct and this vessel part or apporterance as defined in the code conforms to the rules of construction of the ASE Orde Section III. (The applicable Designed Specification and Stress Report are not the responsibility of the NPT Certificate Holder for parts. An NPT Certification Holder for apportaneous is responsible for furnishing a separate Design Specification and Stress Report if the apportaneous is not included in the component Design Specification and Stress Report).
PATE: 12/31 ,19 88 Signed GZ-NESC-NF3CY-CA By JML m this
ificate Of Authorization Expires: 6/16/90 Certification of Authorization No.: NPT N-1151
Tributed of Authorities of 15750 Critical of Authorities 160. [17] 17-11-1
Caeth Carlos Cr. Dallia FOR APPRINANCS
Design information on file at GZ COMPANY, SAN JOSE, CALLFORNIA
Stress analysis report on file at GZ COMPANY, SAN JOSE, CALIFORNIA . DC22A6253 Rev. 0
Design specification certified by BICRN HAMEERG Prof. Eng. State CALIF. Reg. No. 15570
DC22A6254 Rev. 0. Stress analysis report certified by EDWARD MCSHIO Prof. Pag. State CALLE. Reg. No. M018646
CHARLESTON OF SHOP INSPECTION
I, the undersigned, holding a valid commission by the National Board of Boiler and Pressure Inspectors and/or the State or Province of NORTH CROLINA and employed by DEPARTMENT OF LABOR of STATE OF NORTH CROLINA have inspected the part of a pressure vessel described in this Partial Data Report on /2-3/ 1987, and state that to the best of my knowledge and belief, the NPT Cartificate molder has constructed this part in accordance with the ASAE Code Section III.  By signing this certificate, neither the Inspector nor his employer makes any warranty,
expressed or implied, concerning the part described in the Partial Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damages or a loss of any kind arising from or connected with this inspection.
12-31,1988 If Them does 1997 AWC2L60, OHIO  CATE Basecrea's Signature National Board, State, Province and No.
DATE Inspector's Signature National Board, State, Province and No.
*Supplemental sheets in form of lists, aketches or drawing may be used provided (1) size is 2 2 X 11, (2) information in 1-2 on this Data Report is included on each sheet, and (3) sheet is numbered and number of sheets is recorded in Item 3. *REMARKSS*

R.L. Inspector

Date

#### FORM X-2 (back)

Itome 4-8	Incl.	to be com	oleted for	single v	ell vess	ols, isch	kets ve	msels, or e	hells of hes	t exchange	ers.
				Nominal	C	ormeion					
4. Shell:	Hates	ial	T.S	Thickness	tv • V	Movauca'	<sub>72</sub>	Diaft.	in. Lengt	hft	in.
		(Kind & S	pec.Na) (M	in olysing	e Specif	(ted)					
5. Seans:	Long		H.T	•1		R.T		Efficien	cy	¥	
									-		
	Girth	1	H.T	.1		R.T.		No. of C	ourses T.S		
6 Headar	(a) x	aterial		T.S		(b)H	sterial		T.S.		
						, -,					
	145-		Came	Your la	E1110+4	ani Caa	a4 a1	Veet schools	al Flat	Cida ba	0
Pocarron	(100)	Thistenan	- Dedice	RIIOCALE	Catabra	tal too.	lan) -	Coding	Diameter	3104 10 (	-10m.
							<b>Night</b>	REGIO	Organical	(conv.or	conc.)
(a)			<del></del>	. ———							
(0)					-						
If remov	able,	polfs ase	d			Othe	r fasts	พานอั			
		(Meter	iel,Spec.N	o., T.S.	Size Hus	cer)		(Descri	be or attach	sketch)	
7. Jacket	Close	ite:									
		(Describ	8 8 0000	and weld.	ber.atc.	If bar	dive di	mensions, i	f bolts, des	cribe or	shetch)
			_	_	•			N V-	. Cabb		
8 Design	Pres	ura 2	1250	nei	-	575	•••	Charmy	Ispect	A-11	h
o. 54449.					•••		• •	ab tama	. of	``;	-
								at tame	• 01		τ 
	. 10				, ,			•			
Items 9 an	4 10 (	D 00 CO00	reted tot	TUDE SOCT	ions.						
			h					_ '.			
9. Tube 5	heets:	: Stationa	sy Hat'l		0	ie		Thickness	_in. Attach	ment	
			(X	ind of Sp	ec. Xo.)	(Subj.	to Pros	18.)	( . Attacheent	Walded, 8	olted)
		losting.	Material		01	A.	Thic	kness in	. Attacheent		
-		•	_				inches	1	•		
In. Tubes:	Hate	rial	O.	n. in	- Thicks	and	02 080	m. Number	Туре		
					• •••••				<u></u>	Str. or U	·
										362. 02 0	<u></u>
Thomas 11 1							abad				
100mm 71+1	4 Inc.	. to be c	Segraced t	OF TIMIES	Childre	GI INCX	acad A	seasts, or c	hennels of h	dar dxcus	ndera
				minel							
II. Shell:	Hates	ialT	.sា	ickness	_in. All	CAROLCS	_in. 0i	4ft	inLongth_	t <u></u> i	n.
•	(KŦ	nd&Spec.No	.) (Hin.c	ifRænge Sp	ecified)			•			
			_		•						
12. Seams:	Long		H.T.1	R.T.		Effici	ency	18	. 4		
	Girth		H.T.	R.T.		No. of	Course	18			
13. Heads	(a) N	tarial			.5.		(b)H	tactel		.5	
Location			C 2222	Yougle	Filinti	~~ [en	\\\\\\	Heni enteri	cal fat	Side to	22-44
(a)T 0		T f males a	m Dadis	Made a	2-24-	1000		D-46.m	Diseases	/Com	
	ac com	, itches	e Kedica	Kagrus				MEGICE	Diameter	(CON-OF	Conc.)
End .		-		-							
(b)Channe	1							<del></del>	بسميسينية مسب		
If removeb	le, b	ilts used	(a)	_ (b)	(c)_	Othe	r Fasta	ning			
						_			be or attach	exeten	
, '								Drop We	ight		
		*						Charm	Impact		
14. Design	GENR	2		ns	i at		٠ .	et tow	. of		
	,,,,,,							. 45 500			<u> </u>
Items belo	I		-d Com -11			-14bl-					
15888 3610	W CLI	o comotec	BU TUE ALL		miere de	OTICADIO	•				
15. Safety	ASTA	s Anctoca:	Mumber		Size			Location			
			*								
16. Nozzla	:8:										
Purpos	a (In	Lat							Rainfarcama	nt	
Qutlet	. Ora	in) N	caper	Dia or Si	æ Ty	oe Hat	srial	Thickness	Material	At	tached
	•				•	•					4
7		Maabal	. No		et						
y			a mo					ocation			
17. Inspec		HAURIO LEGI	,		×130		• • •	cation			
17. Inapac Commin		Hendles,	No		Size			,			
		Hendles,	No		Size			ocation_			
		Hendles,	No		Siza			,			
	ga:	Hendles, Threaded	No	Lugs	Siza	Legs_		ocation	Attached		
Comin	ga:	Hendles, Threaded Shirt	No	Lugs	Siza			ocation		ihere å Ho	~)
Comin	ga:	Handles, Threaded Shirt (Yes	Na , No	Lugs	Siza		a:	cetion		ihara & Ho	<del>~</del> )
Commin  18. Support  1 If Pasts	ga: ts: reld H	Hendles, Thresded Shirt (Yes est-Trest	or No)	Luga (Nu	Sizm	(Nu	Q; Q;	cetion	(se) ()	ihara & Ho	~)



### FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

1. Owner: Washington Public Power Supply System
Address: 3000 George Washington Way, Richland, WA

Date: 5/19/90 Sheet: 1 of 1 Unit: WNP-2

2. Plant: WPPSS Nuclear Power Plant (WNP)

Address: Hanford, Benton County, WA

- 3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA
  - (b) Repair Organization P.O. No., Job No., etc.: WPPSS
- 4. Identification of System: Control Rod Drive (CRD)
- 5. (a) Applicable Construction Code ASME Section III: 1971 Edition with no Addenda, Code Case: None
  - (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition, Winter 1980 Addenda, Code Case: N-308
- 6. Identification of Components Repaired or Replaced and Replacement Components

No.  Replacement (Yes or No) Code Class  CRD GE 6346 N/A N/A 1974 Replacement Yes, Class I CT&F GE A8460 N/A N/A 1988 Replacement Yes, Class I	Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board	Other I.D.	Year Built	Repaired, Replaced, or	ASME Code Stamped
	• 			No.			•	(Yes or No)
<u>                                     </u>	CT&F		· <del>-</del> · · ·				•	

#### 7. Description of Work:

- > Existing Control Rod Drive (CRD) Serial Number 6346, ASME Section III, Code Class 1, 1971 Edition with no Addenda
- > New replacement Cylinder Tube and Flange (CT&F) assembly Serial Number A8460, ASME Section III, Code Class 1, 1974 Edition with Winter 1975 Addenda
- > Disassembled CRD for overhaul. Performed PT examination on the CT&F assembly. PT examination results were evaluated to be unacceptable. Performed visual examination on the piston tube assembly. Visual examination results acceptable. Reassembled CRD parts and installed new replacement CT&F assembly.
- > Note: The entire CRD assembly is now identified by the new replacement CT&F serial number

4	AVESTHOLDING (	राज्ञायाः १५अवस
	SUPPLY	SYSTEM

		FORM NIS-2 (Back)
	8.	Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other X None Test Pressure: Psig Test Temperature: °F Component Design Pressure: Psig Temperature: °F
	9.	Remarks: See attached N-2 Code Data Report for new replacement Cylinder Tube and Flange (CT&F) assembly Serial Number A8460
		CERTIFICATE OF COMPLIANCE
		We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.  Type Code Symbol Stamp: Not applicable  Certificate Authorization No.: Not applicable  Expiration Date: Not Applicable
		Prepared by Luich Signed Plant Technical Manager
,,		Date
		CERTIFICATE OF INSERVICE INSPECTION
		I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 5/4/90 to 5/52/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.  By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.  Commissions 956 W  National Board, State, and Endorsements
		Date <u>5/22/90</u>

#### MWR AS 2910

Kuldip Bups 5/19/90

### FORM H-2 HPT CERTIFICATE BOODERS' DATA REPORT FOR MULICAR PART AND APPORTMANCES\* As required by the Provision of the ASME Code Rules, Section III, Div. 1

L. Manufactured & Certified by:	GZ Comcany, 2117 Castle Bayne Rd., Wilmington, N.C. 28402
(b) Manufactured for:	GZ Company, 2117 Castle Hayne Rd., Wilmington, N.C. 28402 (Name and Accress of NPT Certificate Holder) WNF-2, RICHIAND, Wa. 99352 Accress of N Certificate Holder for completed nuclear component)
(Name and	Acutes of M Certificate policer for completed nuclear component)
2. Identification-Certificate 1	Holders's S/N of Part: A8460 Nat'l Bd. No. N/A
(a) Constructed According to	Drawing No: 919D258G003 Dwg. Prepared by D. L. Peterson
(b) Description of Part Insp	ected: CYLINDER TUBE & FLANGE
(c) Applicable ASAE Code: Se	ction III, Edition 1974, Addenda Date W 75 Case No. 1361-2 Class 1
REMARKS: Sub-assembly of Co	ntrol Rod Drive for use with reactor.
Evirostatically te	sted at 1825 cai. min.
Sheet 1 of 2	
as defined in the code conformation of the applicable Designed Specificate Eolder for parts. For furnishing a separate Designated in the component Designate:  12/31 ,19 8	in this report are correct and this vessel part or apportenance can to the rules of construction of the ASME Code Section III. fication and Stress Report are not the responsibility of the NPT an NPT Certification Bolder for apportenances is responsible sign Specification and Stress Report if the apportenance is not an Specification and Stress Report).  8 Signed GZ-MEMC-MFSCA-CA By MARCH (NPT Certificate Bolder)
Diate Of Authorization E	mires: 6/16/90 Cartification of Authorization No.: NPT N-1151
	RELITICATION OF INSTIGN FOR APPRICAMENTS
Design information on file at	GZ CCMPANY, SAN JOSZ, CALLECRNIA
Stress analysis report on file DC22A6253 Rev. 0	at GE COMPANY, SAN JOSE, CALIFORNIA
Design specification cartified DC2276254 Reg. 0.	by BUCRN HAMBERG Prof. Eng. State CALIF. Reg. No. 15570
Stress analysis report certific	ed by XXXXXD YCSXIO Prof. Eng. State CALIF. Reg. No. M018646
	CHUICHE Z BR NACIO
nspectors and/or the State or in STATE OF NORTH CAROLINA artial Data Report on and belief, the NPT Carolina code Section III.  By signing this cartificate, concerning either the Inspector nor his erroperty damages or a loss of 12-3/1998	walld commission by the National Board of Boiler and Pressure Province of NCRIM CROLINA and employed by DEPARTMENT OF LABOR have inspected the part of a pressure vessel described in this /2-3/ 1998, and state that to the best of my knowledge a molder has constructed this part in accordance with the ASME neither the Inspector nor his employer makes any warranty, go the part described in the Partial Data Report. Furthermore, moleyer shall be liable in any manner for any personal injury of any kind arising from or connected with this inspection.  Mi 779, PAWC2L6U. Uhu.  National Board, State, Province and No.
Coolemental sheets in form of	lists, sketches or drawing may be used appointed (1) size is
3-1/2 X 11", (2) information and numbered and numbered	lists, sketches or drawing may be used provided (1) size is in 1-2 on this Data Report is included on each sheet, and (3) ber of sheets is recorded in Itam 3. "REMARKSS"
וודענ	VERIFIED & ACCEPTED No Milling III
•	R.I. Inspector Date

R.I. Inspector

### MWR AS 2910

FORM N-2 (back)

S/N A8460 Enarp Emps 1/19/89.

Nominal Corresion
Shell: Material T.S. Thickness in. Allowance in Dia. ft. in. Length ft. in.
(Kind A Spec.No.) (Min.ofRance Specified)
Seass: Long H.T.1 R.T. Efficiency S
Girth H.T. <sup>1</sup> R.T. No. of Courses Heads: (a) Material T.S. (b) Material T.S.
. Heads: (e) MaterialT.S(D)MaterialT.S
Location (Top Crown Knuckle Elliptical Concial Hemispherical Flat Side to Press.
- Bottom,Ends) Thickness Radius Radius Ratio Apex Angle Radius Diameter (conv.or conc.)
(a)
If removable, boits used Uther restoring
(Material, Spec.No., T.S. Size Number) (Describe or attach sketch)  Jacket Closure:
(Describe as ogee and weld, bar, stc. If bar give dimensions, if bolts, describe or shotch)
Drop Weight  Design Pressure 2 1250 psi at 575 % Charpy Impact ft-lb
. Design Pressure 2 1250 psi et 575 F Charpy Impert ft-1b at temp. of ef
,
tess 9 and 10 to be completed for tube sections.
. Tube Sheets: Stationary Mat'1. Dis. Thickness in Attachment
(Kind of Spec. No.) (Subj.to Press.) (Welded, Boited) Floating. Material Dis. Thickness in Attacheset
inches
inches  G. Tubes: Material G.D. in. Thickness or gags. Number Type  (Str. or U)
tems II-14 incl. to be completed for inner chambers of jacketed vessels, or channels of hest exchangers  Nominal Corresion
1. Shell: MaterialT.SThickness _in. Allowence _in. Disftin Length _ftin.
(Kind&Spec.Na.) (Hun.ofRange Specified)
2. Seams: Long H.T. <sup>1</sup> R.T. Efficiency 5
2. Seame: Long H.T. R.T. Efficiency : Girth H.T. R.T. No. of Courses
2. Seams: Long H.T. R.T. Efficiency :  Girth H.T. R.T. No. of Courses  3. Heads'(a) Material T.S. (b) Material T.S.  Location Cross Koucle Elliptical Coucle Mediannerical Fat Side to Press
J. Heads'(a) Material T.S. (b)Material T.S. Location Crown Knucle Elliptical Concial Hemispherical Fat Side to Press (a)Top, Bottom, Tichkesm Radius Radius Ratio Apex Angle Radius Diameter (Conv.or Conc.)
J. Heads'(a) Material T.S. (b) Material T.S.  Location Crown Knucle Elliptical Concial Hemispherical Fat Side to Press (a) Top, Bottom, Tichkesm Radius Radius Ratio Apex Angle Radius Dismeter (Conv.or Conc.)  End
J. Heads'(a) Material T.S. (b)Material T.S. Location Crown Knucle Elliptical Concial Hemispherical Fat Side to Press (a)Top, Bottom, Tichkesm Radius Radius Ratio Apex Angle Radius Diameter (Conv.or Conc.)
Location Crown Knucle Elliptical Concial Hemispharical Fat Side to Press  (a) Top, Bottom, Tichkess Radius Radius Ratio Apex Angle Radius Dismeter (Conv.or Conc.)  End  (b) Channel  f resovable, bolts used (a) (b) (c) Other Fastening (Describe or attach skatch
Location Crown Knucle Elliptical Concial Hemispherical Fat Side to Press (a)Top, Bottom, Tichkess Radius Radius Ratio Apex Angle Radius Diameter (Conv.or Corc.)  End (b)Channel (resoveble, bolts used (a) (b) (c) Other Fastening (Describe or attach skatch Drop Weight Charny Issact (5-1b)
Location Crown Knucle Elliptical Concial Hemispherical Fat Side to Press (a) Top, Bottom, Tichkess Radius Radius Ratio Apex Angle Radius Diameter (Conv.or Corc.)  End (b) Channel (c) Other Fastening (Describe or attach skatch Drop Weight Charpy Lapact (C-lb
T.S. (b)Material T.S.  Location Crown Knucle Elliptical Concial Hemispherical Fat Side to Press (a)Top, Bottom, Tichkess Radius Radius Ratio Apex Angle Radius Diameter (Conv.or Corc.)  End (b)Channel (formal reserved) (b) (c) Other Fastening (Describe or attach skatch Drop Weight Charpy Leosot C-lb  4. Design pressure2 oai at eff at temp. of eff
Location Crown Knucle Elliptical Concial Hemispherical Fat Side to Press (a)Top, Bottom, Tichkess Radius Radius Ratio Apex Angle Radius Diameter (Conv.or Corc.)  End (b)Channel (resoveble, bolts used (a) (b) (c) Other Fastening (Describe or attach skatch Drop Weight Charpy Imaget (C-lb A. Design pressure <sup>2</sup> osi at short of eff
T.S. (b)Material T.S.  Location Crown Knucle Elliptical Concial Hemispherical Fat Side to Press (a)Top, Bottom, Tichkess Radius Radius Ratio Apex Angle Radius Diameter (Conv.or Corc.)  End (b)Channel (formal reserved) (b) (c) Other Fastening (Describe or attach skatch Drop Weight Charpy Leosot C-lb  4. Design pressure2 oai at eff at temp. of eff
Location Crown Knucle Elliptical Concial Hemispherical Fat Side to Press (a) Top, Bottom, Tichkess Radius Radius Ratio Apex Angle Radius Diameter (Conv.or Corc.)  End (b) Channel (resovence, bolts used (a) (b) (c) Other Fastening (Describe or attach skatch Drop Weight Charpy Imaget (C-lb A. Design pressure2 oai at st temp. of st temp. of specified of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets of sets
Location Crown Knucle Elliptical Concial Hemispherical Fat Side to Press (a) Top, Bottom, Tichkess Radius Radius Ratio Apex Angle Radius Diameter (Conv.or Corc.)  End (b) Channel (c) Other Fastening (Describe or attach skatch Drop Weight Charpy Imact Charpy Imact T.S. (d) Tress (e) Top Minight Charpy Imact T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) M
Continue   Common
Location Crown Knucle Elliptical Concial Hemispherical Fat Side to Press (a) Top, Bottom, Tichkess Radius Radius Ratio Apex Angle Radius Diameter (Conv.or Corc.)  End (b) Channel (c) Other Fastening (Describe or attach skatch Drop Weight Charpy Imact Charpy Imact T.S. (d) Tress (e) Top Minight Charpy Imact T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) Material T.S. (i) M
Location Crown Knucle Elliptical Concial Hemispherical Fat Side to Press (a) Top, Battom, Ticnkess Radius Radius Ratio Apex Angle Radius Diameter (Conv.or Conc.) End (b) Chennel f removable, bolts used (a) (b) (c) Other Fastening  (Describe or attach sketch  Drop Weight  Cherry Immed ft-lb  4. Design pressure <sup>2</sup> oai at eff at temp. of eff  tems below to be completed for all vessels where applicable.  5. Safety Valve Outlats: Number Size Location  6. Nozzles: Purpose (Inlet Outlet, Orain) Number Ois or Size Type Haterial Thickness Haterial Attached
Location Crown Knucle Elliptical Concial Hemispherical Fat Side to Press (a) Top, Bottom, Tichkese Radius Radius Ratio Apex Angle Radius Dismeter (Conv.or Conc.) End (b) Channel f removable, bolts used (a)  (b)  (c)  Other Fastening  (Describe or attach skatch  Drop Weight  Charpy Impact  A. Design pressure <sup>2</sup> osi at set set of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state of state
Location Crown Knucle Elliptical Concial Hemispherical Fat Side to Press (a) Top, Bottom, Tichkese Radius Radius Ratio Apex Angle Radius Dismeter (Conv.or Conc.) End (b) Channel f removable, bolts used (a) (b) (c) Other Fastening (Describe or attach skatch Drop Weight Charpy Impact ft-lb 4. Design pressure <sup>2</sup> oai at er at temp. of er  tems below to be completed for all vessels where applicable.  5. Safety Valve Outlats: Number Size Location  6. Nozzles: Purpose (Inlet Reinforcement Outlet, Orain) Number Die or Size Type Material Thickness Material Attached  7. Inspection Manholes, No. Size Location
Coefficient Crown Knucle Elliptical Conciel Hemisphorical Fat Side to Press (a) Top, Bottom, Tichkess Radius Radius Ratio Apex Angle Radius Diameter (Conv. or Corc.) End (b) Channel (b) Channel (b) Channel (c) (b) (c) Other Fastening (Describe or attach sketch Drop Meight Charpy Impact (C-lb A. Design pressure pai at stamp. of stamp. of special pressure purpose (Inlet Outlet, Orain) Number Dis or Size Type Material Thickness Material Attached (Denings: Handles, No. Size Location (Denings: Handles, No. Size Location (Denings: Handles, No. Size Location (Denings: Handles, No. Size Location (Denings: Handles, No. Size Location (Denings: Handles, No. Size Location (Denings: Handles, No. Size Location (Denings: Handles, No. Size Location (Denings: Handles, No. Size Location (Denings: Handles, No. Size Location (Denings: Location (Denings: Handles, No. Size Location (Denings: Location (Denings: Location (Denings: Location (Denings: Location (Denings: Location (Denings: Location (Denings: Location (Denings: Location (Denings: Location (Denings: Location (Denings: Location (Denings: Location (Denings: Location (Denings: Location (Denings: Location (Denings: Location (Denings: Location (Denings: Location (Denings: Location (Denings: Location (Denings: Location (Denings: Location (Denings: Location (Denings: Location (Denings: Location (Denings: Location (Denings: Location (Denings: Location (Denings: Location (Denings: Location (Denings: Location (Denings: Location (Denings: Location (Denings: Location (Denings: Location (Denings: Location (Denings: Location (Denings: Location (Denings: Location (Denings: Location (Denings: Location (Denings: Location (Denings: Location (Denings: Location (Denings: Location (Denings: Location (Denings: Location (Denings: Location (Denings: Location (Denings: Location (Denings: Location (Denings: Location (Denings: Location (Denings: Location (Denings: Location (Denings: Location (Denings: Location (Denings: Location (Denings: Location (Denings: Location (Denings: Location (Denings: Loca
Coefficient Crown Knucle Elliptical Conciel Hemispherical Fat Side to Press (a) Top, Bottom, Tichkess Radius Radius Ratio Apex Angle Radius Diameter (Conv. or Corc.) End (b) Channel (b) Channel (Common Corc.) (b) (c) Other Fastening (Describe or attach skatch Drop Meight Charpy Impact Charpy Imp



### FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

1. Owner: Washington Public Power Supply System
Address: 3000 George Washington Way, Richland, WA

Date: 5/19/90 Sheet: 1 of 1 Unit: WNP-2

2. Plant: WPPSS Nuclear Power Plant (WNP)

Address: Hanford, Benton County, WA

- 3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA
  - (b) Repair Organization P.O. No., Job No., etc.: WPPSS
- 4. Identification of System: Control Rod Drive (CRD)
- 5. (a) Applicable Construction Code ASME Section III: 1971 Edition with no Addenda, Code Case: None
  - (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition, Winter 1980 Addenda, Code Case: N-308
- 6. Identification of Components Repaired or Replaced and Replacement Components

CRD GE, 7338 N/A N/A 1975 Replacement Yes, Class 1 CT&F GE A8727 N/A N/A 1989 Replacement Yes, Class 1	Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other LD.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
	CT&F	ge, ge						,

#### 7. Description of Work:

- > Existing Control Rod Drive (CRD) Serial Number 7338, ASME Section III, Code Class 1, 1971 Edition with no Addenda
- > New replacement Cylinder Tube and Flange (CT&F) assembly Serial Number A8727, ASME Section III, Code Class 1, 1974 Edition with Winter 1975 Addenda
- > Disassembled CRD for overhaul. Performed PT examination on the CT&F assembly. PT examination results were evaluated to be unacceptable. Performed visual examination on the piston tube assembly. Visual examination results acceptable. Reassembled CRD parts and installed new replacement CT&F assembly.
- > Note: The entire CRD assembly is now identified by the new replacement CT&F serial number

	AVERNIE ON S	MERCE PORTE
<b>9</b>	SUPPLY	SYSTEX

TODICATE A COLLA
FORM NIS-2 (Back)
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other X None Test Pressure: Psig Test Temperature: °F Component Design Pressure: Psig Temperature: °F
9. Remarks: See attached N-2 Code Data Report for new replacement Cylinder Tube and Flange (CT&F) assembly Serial Number A8727
CERTIFICATE OF COMPLIANCE
We certify that the statements made in the report are correct and this replacement conforms to the
rules of the ASME Code, Section XI.
Type Code Symbol Stamp: Not applicable
Certificate Authorization No.: Not applicable  Expiration Date: Not Applicable
Exputation Date: Not Applicable
Prepared by Buldip Gues Signed
Plant Technical Manager
Date
<u></u>
CERTIFICATE OF INSERVICE INSPECTION
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report
during the period 5/6/90 to 5/22/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in
accordance with the requirements of the ASME Code, Section XI.
By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither
the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a
loss of any kind arising from or connected with this inspection.
Don Horald Commissions 9556W
//Inspector's Signature National Board, State, and Endorsements
Date <u>5/22/90</u>

Kulary Surps

FORM N-2 HPT CERTIFICATE BOILDERS' DATA REPORT FOR NUCLEAR PART AND APPORTMANCES\*
As required by the Provision of the ASME Code Rules, Section III, Div. 1 actured & Certified by: GE Company, 2117 Castle Hayne Rd., Wilmington, N.C.
(Name and Accress of NPT Certificate Bolder) WP-2 RICHLAND, Wa. 99352 (b) Manufactured for: (Name and Accress of N Certificate Bolder for completed nuclear component) . Identification-Certificate Holders's S/N of Part: 78727 Nat'l Bd. No. N/A (a) Constructed According to Drawing No: 919D258G003 Dwg. Prepared by D. L. Peterson CYLINDER TUBE & FLANGE (b) Description of Part Inspected: (c) Applicable ASME Code: Section III, Edition 1974, Addenda Date W175 Case No. 1361-2 Class 1 REMARKS: Sub-assembly of Control Rod Drive for use with reactor. (Brier cescription or service for which component was designed) Everostatically tested at 1825 csi. min. Sheet 1 of 2 e certify that the statements in this report are correct and this vessel part or appurtenance is defined in the code conforms to the rules of construction of the ASE Code Section III. The applicable Designed Specification and Stress Report are not the responsibility of the NPT artificate Bolder for parts. An NPT Cartification Bolder for appurtmances is responsible furnishing a separate Design Specification and Stress Report 1f the appurtmance is not actually in the component Design Specification and Stress Report). 2/1 ,19 89 Signed GE-NEEG-NEEGY-QA ATTE: (NPT Certificate Boicer) artificate Of Authorization Expires: 6/16/90 Cartification of Authorization No.: NPT N-1151 CRETEICATION OF DESIGN FOR APPRICABIOS sign information on file at GZ COMPANY, SAN JOSE, CALIFORNIA ress analysis report on file at  $\,\,$  GZ COMPANY, SAN JCSE, CALIFORNIA 22A6253 Rev. 0 sign specification certified by BUCRN HAAHERG 'Prof. Eng. State CALIF. Reg. No. 15570 ■2A6254 Rev. 0. ress analysis report certified by EDWARD YCSHIO Prof. Eng. State CALIF. Reg. No. M018646 CRETACKING CA 25Cb INSERCACO the undersigned, holding a valid commission by the National Board of Boiler and Pressure ectors and/or the State or Province of NCRIM CAROLINA and employed by DEPARIMENT OF LABOR STATE OF NORTH CAROLINA have inspected the part of a pressure vessel described in this half bath Report on 2/2 19%7, and state that to the best of my knowledge belief, the NFT Certificate Holder has constructed this part in accordance with the ASME : Section III. signing this certificate, neither the Inspector nor his employer makes any warranty, essed or implied, concerning the part described in the Partial Data Report. Furthermore, her the Inspector nor his employer shall be liable in any manner for any personal injury experty damages or a loss, of any kind arising from or connected with this inspection. HO 779 PA WCZLSO, OHW inspector's Signature National Board, State, Province and No. plemental sheets in form of lists, sketches or drawing may be used provided (1) size is 2" X 11", (2) information in 1-2 on this Data Report is included on each sheet, and (3) sheet is numbered and number of sheets is recorded in Item 3. "REMARKS."

VERIESO & ACCEPTED AND

R.I. Inspector

Oate

FORM N-2 (back)  **BURNA STORM N-2 (back)  **BURNA STORM N-2 (back)  **BURNA STORM N-2 (back)  **BURNA STORM N-2 (back)  **Season Long
FORM N-2 (back)  See a.S Incl. to be completed for single well vessels, jocksts vessels, or smells of heat exchangers.  Nosalmal Corrosion  (Kind & Spec.No) (Min.ofRenge Specified)  Seese: Long N.T.\frac{1}{2} R.T. Efficiency S  Girth N.T.\frac{1}{2} R.T. Efficiency S  Girth N.T.\frac{1}{2} R.T. Roll-Mesterial T.S. S  Contion (Top Crown Knuckis Elliptical Concila Mestapherical Flat Side to Press. Cottons, Ends) Distances Redius Ratius Ratiu Apax Angle Redius Disseter (conv.or conc.)  Temoveole, boilt used Other Festeming (Describe or attach skatch)  Jackat Closures  (Nexterial, Spec.No., T.S. Size Number)  (Describe as ogee and weld, bar, stc. If bar give dissentions, if boilts, describe or shatch)  Design Pressure 2 1250 pai at 575 of Charry Ispact T-lb  as 9 and 10 to be completed for time sections.  Tube Sheets: Stationary Nat'l (Kind of Spec. No.) (Subj.to Press.)  Tube Sheets: Stationary Nat'l (Mind of Spec. No.) (Subj.to Press.)  In thickness in. Attachesent Inches  Floating. Naterial Olia Thickness in. Attachesent Inches  In the Sheets: Stationary Nat'l (Converse Inches Origins, Naterial Olia, National Corrosion  Tubes: Naterial Olia National Corrosion  Thickness in. Alternation of Spec. No.)  Shell: Naterial T.S. Thickness in. Alternations: Origins Inches or charmels of heat exchangers  Shell: Naterial T.S. Thickness in. Allowance in. Dis. Th. in. Larger ft. in.  (KindaSpec.No.) (Min.ofRenge Specified)  Seess: Long H.T.\frac{1}{2} R.T. Efficiency T. (Size to Free Shell Naterial T.S. Thickness in. Allowance in. Dis. Th. in. Larger ft. in.  (KindaSpec.No.) (Min.ofRenge Specified)  Girch H.T.\frac{1}{2} R.T. Efficiency T. (Charms Corrosion Thickness or Charms Inches Origins Corrosion Corrosion Crown Knulle Elliptical Concila Hesispecical Fet Side to Free Corrosion Corrosion Crown Radius Radius Radius Radius Radius Radius Dissetter (Corrosion Charmy Inpoct (T-lb  Charmy Inpoct (T-lb  Charmy Inpoct (T-lb  Charmy Inpoct (T-lb  Charmy Inpoct (T-lb  Charry Inpoct (T-lb  Charry Inpoct (T-lb  Charmy Inpoct (T-lb
FORM N-2 (back)  See a.S Incl. to be completed for single well vessels, jocksts vessels, or smells of heat exchangers.  Nosalmal Corrosion  (Kind & Spec.No) (Min.ofRenge Specified)  Seese: Long N.T.\frac{1}{2} R.T. Efficiency S  Girth N.T.\frac{1}{2} R.T. Efficiency S  Girth N.T.\frac{1}{2} R.T. Roll-Mesterial T.S. S  Contion (Top Crown Knuckis Elliptical Concila Mestapherical Flat Side to Press. Cottons, Ends) Distances Redius Ratius Ratiu Apax Angle Redius Disseter (conv.or conc.)  Temoveole, boilt used Other Festeming (Describe or attach skatch)  Jackat Closures  (Nexterial, Spec.No., T.S. Size Number)  (Describe as ogee and weld, bar, stc. If bar give dissentions, if boilts, describe or shatch)  Design Pressure 2 1250 pai at 575 of Charry Ispact T-lb  as 9 and 10 to be completed for time sections.  Tube Sheets: Stationary Nat'l (Kind of Spec. No.) (Subj.to Press.)  Tube Sheets: Stationary Nat'l (Mind of Spec. No.) (Subj.to Press.)  In thickness in. Attachesent Inches  Floating. Naterial Olia Thickness in. Attachesent Inches  In the Sheets: Stationary Nat'l (Converse Inches Origins, Naterial Olia, National Corrosion  Tubes: Naterial Olia National Corrosion  Thickness in. Alternation of Spec. No.)  Shell: Naterial T.S. Thickness in. Alternations: Origins Inches or charmels of heat exchangers  Shell: Naterial T.S. Thickness in. Allowance in. Dis. Th. in. Larger ft. in.  (KindaSpec.No.) (Min.ofRenge Specified)  Seess: Long H.T.\frac{1}{2} R.T. Efficiency T. (Size to Free Shell Naterial T.S. Thickness in. Allowance in. Dis. Th. in. Larger ft. in.  (KindaSpec.No.) (Min.ofRenge Specified)  Girch H.T.\frac{1}{2} R.T. Efficiency T. (Charms Corrosion Thickness or Charms Inches Origins Corrosion Corrosion Crown Knulle Elliptical Concila Hesispecical Fet Side to Free Corrosion Corrosion Crown Radius Radius Radius Radius Radius Radius Dissetter (Corrosion Charmy Inpoct (T-lb  Charmy Inpoct (T-lb  Charmy Inpoct (T-lb  Charmy Inpoct (T-lb  Charmy Inpoct (T-lb  Charry Inpoct (T-lb  Charry Inpoct (T-lb  Charmy Inpoct (T-lb
Small: Material T.S. Thickness in Allowance in Dis. ft. in Length ft. in.  (Xind & Spec.No) (Min.ofRarge Specified)  Sease: Long Motorial T.S. Thickness in Allowance in Dis. ft. in Length ft. in.  (Xind & Spec.No) (Min.ofRarge Specified)  M.T.¹ R.T. Efficiency X  Girth H.T.¹ R.T. (D)Material T.S.  costion (Top Crown Knuckle Elliptical Concial Hesiapherical Flat Side to Press. obtos, Ends) Thickness Radius Ratius Ratiu Apax Angle Radius Dissets (conv.or conc.)  Teacwenia, boits used Uther fastening (Describe or attach swatch)  Jacket Closures  (Describe as oges and weld, bar, atc. If bar give dissensions, if boits, describe or swatch)  Design Pressure 1250 pai at 575 of Charp Impact ft. bar 9 and 10 to be completed for tube sections.  Tube Sheets: Stationary Mat'l. (Xind of Spec. No.) (Sunj.to Press.) (Yelded, Boited)  Floating, Material O.D. in. Thickness or gage. Number Type  Tubes: Material O.D. in. Thickness or gage. Number Type  Shell: Material T.S. Thickness in. Altowance In. Attachesent  (Kind&Spec.No.) (Hin.ofRange Specified)  Seases: Lorg H.T.¹ R.T. Efficiency 1  Girth H.T.¹ R.T. Efficiency 1  Girth H.T.¹ R.T. Efficiency 1  Girth H.T.¹ R.T. Efficiency 1  Girth H.T.¹ R.T. Efficiency 1  Girth H.T.¹ R.T. Efficiency 1  Girth H.T.¹ R.T. Efficiency 1  Girth H.T.¹ R.T. Efficiency 1  Girth H.T.¹ R.T. Efficiency 1  Girth H.T.¹ R.T. Efficiency 1  Girth H.T.¹ R.T. Efficiency 1  Girth H.T.¹ R.T. Efficiency 1  Girth H.T.¹ R.T. Efficiency 2  Design pressure Pai at the or of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control o
Small: Material T.S. Thickness in Allowance in Dis. ft. in Length ft. in.  (Xind & Spec.No) (Min.ofRarge Specified)  Sease: Long Motorial T.S. Thickness in Allowance in Dis. ft. in Length ft. in.  (Xind & Spec.No) (Min.ofRarge Specified)  M.T.¹ R.T. Efficiency X  Girth H.T.¹ R.T. (D)Material T.S.  costion (Top Crown Knuckle Elliptical Concial Hesiapherical Flat Side to Press. obtos, Ends) Thickness Radius Ratius Ratiu Apax Angle Radius Dissets (conv.or conc.)  Teacwenia, boits used Uther fastening (Describe or attach swatch)  Jacket Closures  (Describe as oges and weld, bar, atc. If bar give dissensions, if boits, describe or swatch)  Design Pressure 1250 pai at 575 of Charp Impact ft. bar 9 and 10 to be completed for tube sections.  Tube Sheets: Stationary Mat'l. (Xind of Spec. No.) (Sunj.to Press.) (Yelded, Boited)  Floating, Material O.D. in. Thickness or gage. Number Type  Tubes: Material O.D. in. Thickness or gage. Number Type  Shell: Material T.S. Thickness in. Altowance In. Attachesent  (Kind&Spec.No.) (Hin.ofRange Specified)  Seases: Lorg H.T.¹ R.T. Efficiency 1  Girth H.T.¹ R.T. Efficiency 1  Girth H.T.¹ R.T. Efficiency 1  Girth H.T.¹ R.T. Efficiency 1  Girth H.T.¹ R.T. Efficiency 1  Girth H.T.¹ R.T. Efficiency 1  Girth H.T.¹ R.T. Efficiency 1  Girth H.T.¹ R.T. Efficiency 1  Girth H.T.¹ R.T. Efficiency 1  Girth H.T.¹ R.T. Efficiency 1  Girth H.T.¹ R.T. Efficiency 1  Girth H.T.¹ R.T. Efficiency 1  Girth H.T.¹ R.T. Efficiency 2  Design pressure Pai at the or of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control o
Seese: Long   H.T.   R.T.   Efficiency   X   Girth   H.T.   R.T.
Girth H.T. R.T. Efficiency X  Girth H.T. R.T. R.T. R.T. R.T. R.T. R.T. R.T.
Heeds: (a) Material T.S. (b) Material T.S. (c) M
Heeds: (a) Material T.S. (b) Material T.S. (c) M
Tubes: Naterial   O.D.   In. Thickness   O.D.   In. Thickness   In. Attachment   In. Shelir Naterial   T.S.   Thickness   In. Allowance   In. Allowance   In. Attachment   In. (Kind&Spec.No.)   (Hin. of Range Specified)   In. (Hin. of Range Specified)   In. (Kind&Spec.No.)   (Hin. of Range Specified)   In. (Hin. of Range Specified)   In. (Kind&Spec.No.)   (Hin. of Range Specified)   In. (In. of Range Specified)   In. of Range Specified   In. of Range Specified)   In. of Range Specified   In. of Range Specified   In. of Range Specified   In. of In. of Range Specified   In. of In. of Range Specified   In. of In. of Range Specified   In. of In. of In. of In. of In. of In. of In. of In. of In. of In. of In. of In. of In. of In. of In. of In. of In. of In. of In. of In. of In. of In. of In. of In. of In. of In. of In. of In. of In. of In. of In. of In. of In. of In. of In. of In. of In. of In. of In. of In. of In. of In. of I
Temporals, boits used
Tracticals, boils used (Metarial, Spec.No., F.S. Size Number) (Describe or attach skatch)  Jacket Closures (Describe as oges and weld, bar, atc. If bar give disensions, if boilts, describe or smetch)  Design Pressure 2 1250
(Meterial, Spec.No., T.S. Size Number)  (Describe as ogee and weld, bar, stc. If bar give disensions, if boits, describe or shetch)  Design Pressure 2 1250 psi at 575 % Charry Ispact ft-lb at tame. of ef  see 9 and 10 to be completed for tube sections.  Tube Sheets: Stationary Nat'l. Dis. Thickness in. Attachment  (Xing of Spec.No.) (Subj.to Press.)  Floating. Material Ois. Thickness in. Attachment  (Xing of Spec.No.) (Subj.to Press.)  Tubes: Naterial O.D. in. Thickness or gags. Number Type  (Str. or U)  to li-la incl. to be completed for inner chambers of factated vessels, or channels of heat exchangers  Nominal Correction  Shell: Naterial T.S. Thickness in. Allowance in. Dis. ft. in Longth ft. in.  (Kind&Spec.No.) (Min.afRange Specified)  Sesses: Long M.T. R.T. Efficiency Section  Top, Bottom, Fichkess Radius Radius Ratio Apex Angle Radius Diameter (Conv.or Corc.)  End Channel Corn Knucle Elliptical Concial Hesispherical Fat Side to Press  Channel Design pressure paid (a) (b) (c) Other Fastening  (Describe or attach seaton  Channel Channel Solits used (a) (b) (c) Other Fastening  (Describe or attach seaton  Channel Channel Solits used for all vessels where spolicable.  Sefacty Valve Outlets: Number Size Location  Nozzlas:  Purpose (Inlet
Describe as oges and weld, ber, stc. If bar give disensions, if bolts, describe or shatch)
Design Pressure 2 1250 ost at 575 % Charpy Ispact ft-1b at tame. of 4 % et tam
at temp. of 4   4   4   4   4   4   4   4   4   4
Tube Sheets: Stationary Nat'l.    Dis.   Thickness in. Attacheent (Kind of Spac. No.) (Subj.to Press.) (Melded, Boited)   Floating. Material   O.D.   In. Thickness   In. Attacheent   Inches   Inches   In. Attacheent   Inches   I
Tube Sheets: Stationary Nat'l.    Dis.   Thickness in. Attacheent (Kind of Spac. No.) (Subj.to Press.) (Melded, Boited)   Floating. Material   O.D.   In. Thickness   In. Attacheent   Inches   Inches   In. Attacheent   Inches   I
(Kind of Spec. No.) (Subj.to Press.) (Welded, Boited) Floating. Material Dis. Thickness in. Attachment inches Tubes: Material 0.D. in. Thickness or gage. Musber Type  (Str. or U)  11-14 incl. to be completed for inner chambers of iscisted vessels, or channels of heat exchangers Nominal Correction  Nominal Correction  Shell: Material T.S., Thickness in. Allowance in. Dis. ft. in Length ft. in.  (Kind&Spec.No.) (Min.afRange Specified)  Seass: Long H.T. R.T. Efficiency Season Courses  Heads (a) Material T.S. (b) Material T.S.  Sation Cown Knucle Elliptical Concial Hemispherical Fat Side to Press Top. Bottom, Tichkess Radius Radius Ratio Apex Angle Radius Diameter (Conv.or Corc.)  End  Channel Drop Neight Charry Impact Charry Impact Charry Impact Charry  Besign pressure pai at Size Location  Norzies:  Norzies:  Purpose (Inlet Reinforcement
Tubes: Material 0.0. in. Thickness or gage. Number Type  (Str. or U)  11-14 incl. to be completed for inner chambers of jackstod vessels, or channels of heat exchangers  Nominal Corrosion  Shell: Material T.S. Thickness in. Allowance in. Dis. ft. in Length ft. in.  (Kind&Spec.No.) (Min.ofRange Specified)  Sexes: Long H.T. R.T. Efficiency S  Girth H.T. R.T. No. of Courses  Heads (a) Meterial T.S. (b) Material T.S.  Exaction Crown Knucle Elliptical Conclai Homispherical Fat Side to France  Top, Bottom, Fichkess Radius Radius Ratio Apex Angle Radius Diameter (Conv.or Corc.)  End  Channel  Chan
Tubes: Material 0.0. in. Thickness or gage. Number Type  (Str. or U)  11-14 incl. to be completed for inner chambers of jackstod vessels, or channels of heat exchangers  Nominal Corrosion  Shell: Material T.S. Thickness in. Allowance in. Dis. ft. in Length ft. in.  (Kind&Spec.No.) (Min.ofRange Specified)  Sexes: Long H.T. R.T. Efficiency S  Girth H.T. R.T. No. of Courses  Heads (a) Meterial T.S. (b) Material T.S.  Exaction Crown Knucle Elliptical Conclai Homispherical Fat Side to France  Top, Bottom, Fichkess Radius Radius Ratio Apex Angle Radius Diameter (Conv.or Corc.)  End  Channel  Chan
Nominal Corrosion  Shell: Natarial T.S. Thickness in Allowance in Dis. ft. in Length ft. in.  (KindéSpec.No.) (Min.efRange Specified)  Sesse: Long H.T. R.T. Efficiency Section  Sesse: Long H.T. R.T. No. of Courses  Heads (a) Material T.S. (b)Material T.S. Side to Press  End Crown Knucle Elliptical Concial Hemispherical Fat Side to Press  Top, Bottom, Ficnises Radius Radius Ratio Apex Angle Radius Diameter (Conv.or Conc.)  End Channel Charles (b) (c) Other Fastening  (Describe or attach swatch  Orop Meight  Charly Impect (t-lb  Besign pressure pei at set to be completed for all vessels where spolicable.  Safaty Valve Gutlata: Number Size Location  Nonzies:  Purpose (Inlet
Shell: Natarial T.S. Thickness in. Allowance in. Dis. ft. in Length ft. in.  (KindiSpec.No.) (Min.afRange Specified)  Sesse: Long M.T.
Shell: Natarial T.S. Thickness in Allowance in Dia. ft. in Length ft. in.  (Kind&Spec.No.) (Min.ofRange Specified)  Sease: Long H.T.1 R.T. Efficiency :  Girth H.T.1 R.T. No. of Courses  Heads (a) Metarial T.S. (b)Metarial T.S. :  Exaction Crown Knucle Elliptical Concial Hemispherical Fat Side to Frase Top, Bottom, Ticrokess Radius Radius Ratio Apex Angle Radius Diameter (Conv.or Corc.)  End Channel Crown Conc. (Conv.or Corc.)  End (Conv.or Corc.)  End (Conv.or Corc.)  End (Conv.or Corc.)  End (Conv.or Corc.)  End (Conv.or Corc.)  End (Conv.or Corc.)  End (Conv.or Corc.)  End (Conv.or Corc.)  End (Conv.or Corc.)  End (Conv.or Corc.)  End (Conv.or Corc.)  End (Conv.or Corc.)  End (Conv.or Corc.)  End (Conv.or Corc.)  End (Conv.or Corc.)  End (Conv.or Corc.)  End (Conv.or Corc.)  End (Conv.or Corc.)  End (Conv.or Corc.)  End (Conv.or Corc.)  End (Conv.or Corc.)  End (Conv.or Corc.)  End (Conv.or Corc.)  End (Conv.or Corc.)  End (Conv.or Corc.)  End (Conv.or Corc.)  End (Conv.or Corc.)  End (Conv.or Corc.)  End (Conv.or Corc.)  End (Conv.or Corc.)  End (Conv.or Corc.)  End (Conv.or Corc.)  End (Conv.or Corc.)  End (Conv.or Corc.)  End (Conv.or Corc.)  End (Conv.or Corc.)  End (Conv.or Corc.)  End (Conv.or Corc.)  End (Conv.or Corc.)  End (Conv.or Corc.)  End (Conv.or Corc.)  End (Conv.or Corc.)  End (Conv.or Corc.)  End (Conv.or Corc.)  End (Conv.or Corc.)  End (Conv.or Corc.)  End (Conv.or Corc.)  End (Conv.or Corc.)  End (Conv.or Corc.)  End (Conv.or Corc.)  End (Conv.or Corc.)  End (Conv.or Corc.)  End (Conv.or Corc.)  End (Conv.or Corc.)  End (Conv.or Corc.)  End (Conv.or Corc.)  End (Conv.or Corc.)  End (Conv.or Corc.)  End (Conv.or Corc.)  End (Conv.or Corc.)  End (Conv.or Corc.)  End (Conv.or Corc.)  End (Conv.or Corc.)  End (Conv.or Corc.)  End (Conv.or Corc.)  End (Conv.or Corc.)  End (Conv.or Corc.)  End (Conv.or Corc.)  End (Conv.or Corc.)  End (Conv.or Corc.)  End (Conv.or Corc.)  End (Conv.or Corc.)  End (Conv.or Corc.)  End (Conv.or Corc.)  End (Conv.or Corc.)  End (Conv.or Corc.)  End (Conv.or Corc.)
(KindèSpoc.No.) (Hin.afRange Specified)  Sesse: Long H.T. R.T. R.T. So. of Courses  Heads (a) Meterial T.S. (b) Meterial T.S. Side to Press  Sestion Crown Knucle Eliptical Concial Homispherical Fat Side to Press  Top, Bottom, Ticrkess Radius Radius Ratio Apex Angle Radius Diameter (Conv.or Corc.)  End  [Channel resolvable, bolts used (a) (b) (c) Other Fastening  [Describe or attach exaten  Drop Neight  Charpy Impect (t-lb)  Besign pressure pai at streen of streen  Sefecty Valve Outlata: Number Size Location  Mozzles:  Purpose (Inlet
Heads (a) Heterial T.S. (b) Material T.S.  Extion Crown Knucle Elliptical Concial Hemispherical Fat Side to Press Ford  End  [Channel Transvable, bolts used (a) (b) (c) Other Fastening  Charpy Ispect Charpy Ispect Charpy Ispect Charpy Ispect C-lb  Est Side to Press  End  [Channel Transvable, bolts used (a) (b) (c) Other Fastening  Charpy Ispect C-lb  Est Side to Press  End  [Charpy Ispect C-lb  Est Side to Press  End  End  End  End  End  End  End  E
Heads (a) Material T.S. (b) Material T.S.  Existion Crown Knucle Elliptical Concial Homispherical Fat Side to Press Top, Bottom, Fichiese Radius Radius Ratio Apex Angle Radius Diameter (Conv.or Conc.) End [Channel   Channel
End  Channel   Charpy layer   Charpy
End  Channel   Channel   Character   Chara
Design pressure pai at them. of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property o
Conscribe or attach exatch   Charpy Impact
Design pressure
Design pressure
Safaty Valve Outlets: Number Size Location  Norries: Purpose (Inlet Reinforcement
Norries: Purpose (Inlet Reinforceent
Purpose (Inlet Reinforceent
Purpose (Inlet Reinforceent
Applies Amain) Machine Aig an Class Town Makandal Thiniman Makandal desarra
Outlet, Orain) Number Dia or Size Type Material Thickness Material Attached
Inspection Manhales, No. Size Location '
Openings: Hendles, No. Size . Location -
Threaded, NoSizoLocation
Supports: Shirt Lugs Lage Other Attsched
(Yes or No) (Number) (Describe): (Where & How)  Postweld Heat-Treated.





#### FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

1. Owner: Washington Public Power Supply System Address: 3000 George Washington Way, Richland, WA Date: 5/18/90 Sheet: 1 of 1

2. Plant: WPPSS Nuclear Power Plant (WNP)

Unit: WNP-2

Address: Hanford, Benton County, WA

- 3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA
  - (b) Repair Organization P.O. No., Job No., etc.: WPPSS
- 4. Identification of System: Control Rod Drive (CRD)
- 5. (a) Applicable Construction Code ASME Section III: 1971 Edition with no Addenda, Code Case: None
  - (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition, Winter 1980 Addenda, Code Case: N-308
- 6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other LD.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
CRD	GE	6227	N/A	N/A	1975	Replacement	Yes, Class 1
CT&F	GE	A8470	N/A	N/A	1988	Replacement	Yes, Class 1

#### 7. Description of Work:

- > Existing Control Rod Drive (CRD) Serial Number 6227, ASME Section III, Code Class 1, 1971 Edition with no Addenda
- > New replacement Cylinder Tube and Flange (CT&F) assembly Serial Number A8470, ASME Section III, Code Class 1, 1974 Edition with Winter 1975 Addenda
- > Disassembled CRD for overhaul. Performed PT examination on the CT&F assembly. PT examination results were evaluated to be unacceptable. Performed visual examination on the piston tube assembly. Visual examination results acceptable. Reassembled CRD parts and installed new replacement CT&F assembly.
- > Note: The entire CRD assembly is now identified by the new replacement CT&F serial number

A	AVESTHO: OH	AMERICA BONNERS
	KIGGUE	SYSTEM,

FORM NIS-2 (Back)			
8.	Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other X None Test Pressure: Psig Test Temperature: °F Component Design Pressure: Psig Temperature: °F		
9.	Remarks: See attached N-2 Code Data Report for new replacement Cylinder Tube and Flange (CT&F) assembly Serial Number A8470		
	·		
	CERTIFICATE OF COMPLIANCE		
	We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.  Type Code Symbol Stamp: Not applicable Certificate Authorization No.: Not applicable Expiration Date: Not Applicable		
	Prepared by Quideb Sups Signed Plant Technical Manager		
	Date 5/19/90 Date 5-7/-90.		
	CERTIFICATE OF INSERVICE INSPECTION		
	I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 5/4/90 to 5/22/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.  By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.  Commissions 4555.W  National Board, State, and Endorsements		
	Date <u>5/22/90</u>		

MWR AS2914

Rulaip Euros
FORM H-2 MPT CRETIFICATE BOILERS' DATA REPORT FOR HOLIZAR PART AND APPROXIMENTS.* 5/19/90 As required by the Provision of the ASME Code Rules, Section III, Div. 1
1. Manufactured & Certified by: GZ Company, 2117 Castle Havne Rd., Wilmington, N.C. 28402 (Name and Accress of NPT Certificate Holder)
(b) Manufactured for: WNP-2, RICHAND, Wa. 99352  (Name and Address or N Certificate Holder for completed nuclear component)
2. Identification-Certificate Bolders's S/N of Part: A8470 Nat'l Bd. No. N/A
(a) Constructed According to Drawing No: 919D258G003 Dwg. Prepared by D. L. Peterson
(b) Description of Part Inspected: CYLINDER TUBE & FLANGE
(c) Applicable ASME Code: Section III, Edition 1974, Addenda Date W'75 Case No. 1361-2 Class 1
3. REMARKS: Sub-assembly of Control Red Drive for use with reactor.  (Brief description of service for which component was designed)  Everostatically tested at 1825 csi. min.
*Sheet 1 of 2
We certify that the statements in this report are correct and this vessel part or appurtenance as defined in the code conforms to the rules of construction of the ASTE Code Section III. (The applicable Designed Specification and Stress Report are not the responsibility of the NFT Certificate Bolder for parts. An NFT Certification Bolder for appurtenances is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is not included in the component Design Specification and Stress Report).  [NFT Certificate Bolder]
Certificate Of Authorization Expires: 6/16/90 Certification of Authorization No.: NPT N-1151
CRETIFICATION OF DESIGN FOR APPRECIMENCE
Design information on file at GZ COMPANY, SAN JUSE, CALIFORNIA
Stress analysis report on file at GZ COMPANY, SAN JOSZ, CALIFORNIA DC22A6253 Rev. 0
Design specification certified by BUCRN HARPERG Prof. Eng. State CALIF. Reg. No. 15570
Stress analysis report certified by EXMED MCSHO Prof. Eng. State CALLY. Reg. No. M018646
CREATICATION OF SHOP INSPECTION
I, the undersigned, bolding a welid commission by the National Board of Boiler and Pressure Inspectors and/or the State or Province of NCRIE CROLINA and employed by IEPARIMENT CF LABOR of STATE CF NORTH CROLINA have inspected the part or a pressure vessel described in this Partial Data Report on /2-3/ 1988, and state that to the best of my knowledge and belief, the NPT Certificate Boiler has constructed this part in accordance with the ASME Code Section III.  By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the part described in the Partial Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damages or a loss of any kind arising from or connected with this inspection.  12-3/ ,1988
Supplemental sheets in form of lists, sketches or drawing may be used provided (1) size is 8-1/2" X 11", (2) information in 1-2 on this Data Report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded in Item 3. "REMARKSS"

VERIFIED & ACCEPTED

R.I. Inspector

Date

(10/77)

8/N A8470 -Emclip Ewifs -1/19/89.

#### FORM X-2 (back)

toms 4-8 Incl. t	.0_0= 00=010							
	•	No	lenie	Corr	osion			
. Shell: Materi								
). Sesas: Long_	KTIO & SPEC	H.T.		R.T	, • <del></del>	Efficien	cy	
Girth		н.т.	l	R.T	•	No. of C	Courses	
Girṭh_ . Heads: (a) Ha	storial		T.S		(b)Materia	1	T.S	
Location (Top	Thickness	Crows Redice	Knuckle E.	lliptical <i>R</i> atio	Concial Apex Angle	Hemispheric Radius	el Flat Dismater	Side to Press. (conv.or conc.
(*)								(
(0)					Other feet			
If resovable,	(Material	-Soor -No	. I.S. Si	za Nusoar	) )	(Descri	be or attach	skatch)
. Jacket Closu	re:							
_	(Describe a	a ogee-a	nd wold, be	r,atc. If	bar give o	imensions, i	f balts, des	cribe or anetch
Design Press	uro <sup>2</sup> 125	0	pai a	t 57	5 <b>e</b> f	- Charpy	Impact	rc-16
						at temp	of	• *
tems 9 and 10 to	be complet	ed for to	ube section	ná.	•			
						,		
. Tube Sheets:	Stationary	Mat'l	ed of Sono	Dia.	Subj.to Pro	Thickness	iin. Attach	Welded, Bolted)
F.	loating. Hat	orial	id of spec	Dia.	Th	icknessin	. Attacheent	, 501:50)
					inch		_	
II. Tubes: Hater	141		· <sub>ju</sub> •	Thickness	or g	ece. Mumber	Type	Sha ea (1)
						<del></del>		
Items 11-14 incl	. to be como					vessels, or c	thennels of h	est exchangers
ll. Shall: Matar		Nom This	inal :kness i	Corros n. Allows	ion .			
ll. Shell: Hater: (Kin	ielT.S. d&Spec.No.)	Nom Thic (Min. of	inal ckness <u>i</u> Renge Spec	Corros n. Allows ified)	ion . nesin.(	)is(t	in_Longth_	
ll. Shell: Mater: (Kin 12. Seams: Long Girth	ial T.S. d&Spec.No.) H.T H.T	Nom This (Min. of	inel cknessi Renge Spec R.T R.T.	Corros n. Allows ified)	ion . ncsin.  [fficiency_ a. of Cour	isft	in_Longth_	_ftin.
1. Shell: Mater: (Kin 12. Seams: Long Girth	ial T.S. d&Spec.No.) H.T H.T	Nom This (Min. of	inel cknessi Renge Spec R.T R.T.	Corros n. Allows ified)	ion . ncsin.  [fficiency_ a. of Cour	isft	in_Longth_	_ftin.
1. Shell: Mater: (King 12. Seass: Long Girth U. Heads (a) Ma Location (a) Too, Bottom,	ial T.S. dåSpec.No.) H.T H.T	Nom This (Min. of)	inal ckness_in Range SpecR.T	Corros n. Allows ified)  E N L L L L L L L L L L L L L L L L L	ion  nes_in.(  [fficiency_ a. of Courr (b))  Conciel	Disft	in_Longth_	in. in. 
C. Shell: Mater: (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King) (King)	iel T.S. d4Spec.No.) H.T H.T tarial	Nom Thic (Min. of)  1  Crown Radius	Range Spec	Corros n. Allows ified)  E N L L L L L L L L L L L L L L L L L	fficiency  a. of Cour  (b)  Conciel  Apex Angle	disft des	in_Longth_	in. in. 
(King Seases Long Girth Location (a) Too, Bottom, End (b) Channel	iel T.S. d4Spec.No.) H.T H.T tarial	Nom Thic (Min. of)  1  Crown Radius	Range Spec	Corros n. Allows ified)  E N L L L L L L L L L L L L L L L L L	fficiency  a. of Cour  (b)  Conciel  Apex Angle	Disft  Material_ Hemispheri Radius	in_tength_	ftin.  .S Side to Press (Conv.or Conc.
(King Seases Long Girth Location (a) Too, Bottom, End (b) Channel	iel T.S. d4Spec.No.) H.T H.T tarial	Nom Thic (Min. of)  1  Crown Radius	Range Spec	Corros n. Allows ified)  E N L L L L L L L L L L L L L L L L L	fficiency  a. of Cour  (b)  Concial  Apex Angle	disft  descriptions a Radius  toning	in_Longth_	Side to Press (Conv.or Conc.
(King Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the	ialT.S. dåSpoc.No.) H.T H.T tarial Ticnkess lts usod (a)	Nom Thic (Min. of)	Range Spec  R.T.  R.T.  T.S  Xnucle E Radius	Corros n. Allowa ified)  E N N N N N N N N N N N N N N N N N N	ion incidency in a friction (b) Concial Apex Angle	disft  Heterial Hemispheri Radius  tening (Descri	in_tength_  ical Fat Diameter  the or attach	Side to Press (Conv.or Conc.
C. Shell: Mater: (King) (Z. Seams: Long) Girth (J. Heads (a) Materian (a) Ton, Bottom, End (b) Channel (f removable, bottom)	ialT.S. dåSpoc.No.) H.T H.T tarial Ticnkess lts usod (a)	Nom Thic (Min. of)	Range Spec  R.T.  R.T.  T.S  Xnucle E Radius	Corros n. Allowa ified)  E N N N N N N N N N N N N N N N N N N	ion incidency in a friction (b) Concial Apex Angle	disft  Heterial Hemispheri Radius  tening (Descri	in_Longth_	Side to Press (Conv.or Conc.
11. Shell: Mater: (Kin: 12. Seams: Long Girth 13. Heads (a) Ha Location (a) Too, Bottom, End (b) Channel If removeble, bo	ialT.S. d&Spoc.No.) H.T H.T tarial Ticnkess Lts used (s)	Nom Thic (Min. of)  1  Crown Radius	Range Spec R.T. R.T. T.S Xrucie E Radius (b)	Corros n. Allows iflød)  E N lliptical Ratio  (c)  at	fficiency  a. of Court  (b)  Concial  Apex Angle	disft  Heterial Hemispheri Radius  tening (Descri	in_tength_  ical Fat Diameter  the or attach	Side to Press (Conv.or Conc.
(King Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the	ialT.S. dåSpoc.No.) H.T H.T tarial Ticnkess lts used (s)	Nom Thic (Min. of)  1 1 Crown Radius for all	Range Spec R.T. R.T. T.S Xrucie E Radius (b)	Corros n. Allows ified)  Eliptical Ratio  (c)  at ere appli	fficiency in . (b) Concial Apex Angle	disft  Heterial Hemispheri Radius  tening (Descri	in_tength_  ical Fat Diameter  the or attach	Side to Press (Conv.or Conc.
11. Shell: Mater: (Kirn 12. Seams: Long Girth 13. Heads (a) Ha Location (a) Too, Bottom, End (b) Channel If removeble, bo. 14. Design press Items below to b	ialT.S. dåSpoc.No.) H.T H.T tarial Ticnkess lts used (s)	Nom Thic (Min. of)  1 1 Crown Radius for all	Range Spec  R.T.  R.T.  T.S  XNucle E Radius  (b)  psi  vessels wh	Corros n. Allows ified)  Eliptical Ratio  (c)  at ere appli	fficiency in . (b) Concial Apex Angle	disft  ses  Haterial Hemispheri e Radius  Chacpy Chacpy es at teec	in_tength_  ical Fat Diameter  the or attach	Side to Press (Conv.or Conc.
(King Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the	ialT.S. ddSpec.No.) H.T H.T terial Ticnkess lts used (s) sure2 e ccsoleted	Nom Thic (Min. of)  1 1 Crown Radius for all	Range Spec  R.T.  R.T.  T.S  XNucle E Radius  (b)  psi  vessels wh	Corros n. Allows ified)  Eliptical Ratio  (c)  at ere appli	fficiency in . (b) Concial Apex Angle	disft  ses  Haterial Hemispheri e Radius  Chacpy Chacpy es at teec	in_tength_  ical Fat Dismeter  the or attach sight Impact o. of	Side to Press (Conv.or Cone.
(King Canalis Mater:  (King Canalis Long Girth Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis Canalis	ialT.S. ddSpec.No.) H.T H.T terial Ticnkess lts used (s) sure2 e completed Gutlets: No	Nom Thic (Min. of)  Cross Radius  for all	Renge Spec R.T. R.T. T.S Knuclo E Radius  (b)  psi	Corros n. Allows ified)  E N c lliptical Ratio  (c)  at ero spoli	fficiency_in. (fficiency_in. of Court (b)) Concial Apex Angle	disft  ses  Haterial Hemispheri e Radius  Chacpy Chacpy es at teec	in_tength_  ical Fat Diameter  the or attach	Side to Press (Conv.or Cone.
II. Shell: Mater: (Kirk  IZ. Seams: Long Girth  IJ. Heads (a) Ma Location (a) Too, Bottom, End (b) Channel If removeble, bo.  IA. Design press (temm below to b)  IS. Safety Valve  16. Nozzles: Purpose (Inl	ialT.S. ddSpec.No.) H.T H.T terial Ticnkess lts used (s) sure2 e completed Gutlets: No	Nom Thic (Min. of)  Cross Radius  for all	Renge Spec R.T. R.T. T.S Knuclo E Radius  (b)  psi	Corros n. Allows ified)  E N c lliptical Ratio  (c)  at ero spoli	fficiency_in. (fficiency_in. of Court (b)) Concial Apex Angle	Disft  Bos	in_tength_  ical Fat Dismeter  the or attach sight Iroset o. of	Side to Press (Conv.or Core.  sketch
L1. Shell: Mater: (Kirk  12. Seams: Long Girth  L3. Heads (a) Ma Location (a) Too, Bottom, End (b) Channel If removeble, bo.  14. Design press (temm below to b)  15. Safaty Yalve  16. Nozzles: Purpose (Inl	ialT.S. ddSpec.No.) H.T H.T terial Ticnkess lts used (s) sure2 e completed Gutlets: No	Nom Thic (Min. of)  Cross Radius  for all	Renge Spec R.T. R.T. T.S Knuclo E Radius  (b)  psi	Corros n. Allows ified)  E N c lliptical Ratio  (c)  at ero spoli	fficiency_in. (fficiency_in. of Court (b)) Concial Apex Angle	Disft  Bos	in_tength_  ical Fat Dismeter  the or attach sight Iroset o. of	Side to Press (Conv.or Core.  sketch
11. Shell: Mater: (Kirk 12. Seams: Long Girth 13. Heads (a) Ha Location (a) Too, Bottom, End (b) Channel (f removable, bo.  14. Design press  Items below to b  15. Safaty Valve Purpose (Inl Outlet, Orai	islT.S. ddSpec.No.) H.T H.T tarial Ticnkess lts used (s) sure2 e cosoleted Gutlets: Nu	Nom Thic (Min. of) (Min. of)  Crown Radius  for all	inal ckness_in Range Spec R.T. R.T. T.S Xnucle E Radius  (b) psi vessels vn	Corros n. Allows iflød)  E N Iliptical Ratio  (c)  at ere snoli	ion incs_in.[  [fficiency_ o. of Cour (b)] Concial Apex Angle Other Fast	disft  des	in_tength_  ical Fat Dismeter  ibe or attach  sight Immed  Immed  Reinforcese  Haterial	Sin.  Side to Press (Conv.or Conc.  Sketch  F2-1b  of
II. Shell: Mater: (Kirk II. Seams: Long Girth II. Heads (a) Ma Location (a) Too, Bottom, End (b) Channel (f removable, bo.  I4. Design press (tems below to b  I5. Safety Valve Purpose (Inl Gutlet, Orai	islT.S. ddSpoc.No.)  H.T  Harial  Ticnkess  lts used (s)  cure <sup>2</sup> e completed  Gutlets: Nu  et  n) Numb  Hanholes, N	Nom Thic (Min. of) (Nin. o	inal ckness_in Range Spec	Corros n. Allows iflød)  E N Iliptical Ratio  (c)  at ere snoli	ion incs_in.[  [fficiency_ a. of Cour (b)] Concial Apex Angle  Other Fast	Disft  Bos	in_tength_  ical Fat Dismeter  ibe or attach  sight Immed  Immed  Reinforcese  Haterial	Side to Press (Conv.or Core.  sketch
11. Shell: Mater: (Kirk  12. Seams: Long Girth  13. Heads (a) Ha Location (a) Too, Bottom, End (b) Channel If removable, bo.  14. Design press  Items below to b  15. Safaty Yalve  16. Nozzles: Purpose (Inl. Gutlet, Orai	islT.S. ddSpec.No.) H.T H.T tarial Ticnkess lts used (s) sure2 e cosoleted Gutlets: Nu	Nom Thic (Min. of) (Nin. o	inal ckness_in Range Spec	Corros n. Allows iflød)  E N Iliptical Ratio  (c)  at ere snoli	ion nes_in.[ [fficiency_ a. of Cour (b)] Concial Apex Angle Other Fast	disft  description  taning  (Description  Charpy  f at test  Location  Location	in_tength_  ical Fat Dismeter  ibe or attach  sight Immed  Immed  Reinforcese  Haterial	Sin.  Side to Press (Conv.or Conc.  Sketch  F2-1b  of
II. Shell: Mater: (Kirk  IZ. Seams: Long Girth  IJ. Heads (a) Ha Location (a) Too, Bottom, End (b) Channel If removable, bottom  IA. Design press  Items below to b  IS. Safety Yalve Purpose (Inl. Outlet, Orai Openings:	islT.S. ddSpec.No.) H.T H.T tarial Ticnkess lts used (a)  ure2 e cosoleted Gutlets: Nu et n) Nush Handles, N Handles, N Threaded, N	Nom Thic (Min. of) (Nin. o	inal ckness_in Range Spec  R.T. R.T. T.S Xrucie E Radius  (b)  psi vessels vn	Corros n. Allows ified)  E N c llipticsl Ratio  (c)  at  Type  Type  Type	ion incein. [  [fficiency_ io. of Cour:	disft  des	in_tength_  ical Fat Dismeter  ibe or attach  sight Immed  Immed  Reinforcese  Haterial	Sin.  Side to Press (Conv.or Conc.  Sketch  F2-1b  of  Attached
II. Shell: Mater: (King) (II. Seams: Long Girth  II. Heads (a) Ha Location (a) Too, Bottom, End (b) Channel (f removable, bo.)  II. Safety Yalve  Nozzles: Purpose (Inl. Gutlet, Orai	islT.S. ddSpec.No.)  H.T  tarial  Ticnkess  lts used (s)  sure <sup>2</sup> e completed  Gutlets: Nu  et  n) Numb  Handles, N  Thresded, N  thirt  (Yes or	Nom Thic (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. of) (Nin. o	inal ckness in Range Spec R.T. R.T. T.S Xnucle E Radius  (b) psi vessels wh  is or Size	Corros n. Allows ified)  E N c llipticsl Ratio  (c)  at  Type  Type  Lec	ion incein. [  [fficiency_ io. of Cour:	disft  des	in_tength_  in_tength_  ical Fat Dismeter  the or attach sight Impact or of  Reinforceso Material	Sin.  Side to Press (Conv.or Conc.  Sketch  F2-1b  of  Attached

#### FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

1. Owner: Washington Public Power Supply System Address: 3000 George Washington Way, Richland, WA Date: 5/19/90 Sheet: 1 of 1

2. Plant: WPPSS Nuclear Power Plant (WNP)

Unit: WNP-2

Address: Hanford, Benton County, WA

- 3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA
  - (b) Repair Organization P.O. No., Job No., etc.: WPPSS
- 4. Identification of System: Control Rod Drive (CRD)
- 5. (a) Applicable Construction Code ASME Section III: 1971 Edition with no Addenda, Code Case: None
  - (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition, Winter 1980 Addenda, Code Case: N-308
- 6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	- ASME Code Stamped (Yes or No) Code Class
CRD CT&F	ge ge	6190 A8466	N/A N/A	N/A N/A	1975 1988	Replacement Replacement	Yes, Class 1 Yes, Class 1
-			,	•			

#### 7. Description of Work:

- > Existing Control Rod Drive (CRD) Serial Number 6190, ASME Section III, Code Class 1, 1971 Edition with no Addenda
- > New replacement Cylinder Tube and Flange (CT&F) assembly Serial Number A8466, ASME Section III, Code Class 1, 1974 Edition with Winter 1975 Addenda
- > Disassembled CRD for overhaul. Performed PT examination on the CT&F assembly. PT examination results were evaluated to be unacceptable. Performed visual examination on the piston tube assembly. Visual examination results acceptable. Reassembled CRD parts and installed new replacement CT&F assembly.
- > Note: The entire CRD assembly is now identified by the new replacement CT&F serial number

968-22684 (9/87)

	<b>\$</b>	ASSESSION PUBLIC POYEN RUPPLY SYSTEM	MWR No AS 2917
	FO	RM NIS-2 (Back)	•
8. Tests Conducted	i: Hydrostatic Pneumat Test Pressure: Psig Component Design Pressure:	Test ?	rating Pressure Other X No.  Temperature: °F  cerature: °F
9. Remarks: See att	ached N-2 Code Data Report for new re	eplacement Cylinder Tube and	l Flange (CT&F) assembly Serial Number A8466
	CERTIFI	CATE OF COMPLIANC	P. CE
rules of the AS Type Code Syn	the statements made in the repo ME Code, Section XI. abol Stamp: Not applicable horization No.: Not applicable		*
i 1	Outsip Lups	Signed	Plant Technical Manager
Date —	ज्यान[न्	Date <u>\$-</u>	21-90
	rsigned, holding a valid commis		ECTION  aal Board of Boiler and Pressure Vessel

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period  $\frac{5/3/90}{1000}$  to  $\frac{5/22/90}{1000}$  and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Aux Hogan Commissions 9556W
Inspector's Signature National Board, State, and Endorsements

Date <u>5/22/90</u>

MWR AS 2911 Rulaip Euros
FORM N-2 NPT CERTIFICATE BOIDERS' DATA REPORT FOR NUCLEAR PART AND APPORTSNANCES* 5/19/90 As required by the Provision of the ASME Code Rules, Section III, Div. 1
(b) Manufactured for: WNP-2, RICHIAND, Wa. 99352  (Name and Accress of NPT Certificate Holder)  (Name and Accress of NPT Certificate Holder)
2. Identification-Certificate Bolders's S/N of Part: A8466 Nat'l Bd. No. N/A
(a) Constructed According to Drawing No: 919D258G003 Dwg. Prepared by D. L. Peterson  (b) Description of Part Inspected: CYLINDER TUBE & FLANGE
(c) Applicable ASME Code: Section III, Edition 1974, Addenda Date W'75 Case No. 1361-2 Class 1
REMARKS: Sub-assembly of Control Rod Drive for use with reactor.  (Brier description of service for which component was designed)  Hydrostatically tested at 1825 psi. min.
*Sheet 1 of 2
We certify that the statements in this report are correct and this vessel part or appurtenance as defined in the code conforms to the rules of construction of the ASME Code Section III.  (The applicable Designed Specification and Stress Report are not the responsibility of the NPT Certificate Holder for parts. An NPT Certification Holder for appurtenances is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is not included in the component Design Specification and Stress Report).  [PATE: 5/27,19 88 Signed GE-NEEG-NFSCM-QA] By AMAGE MATE: 5/27,19 88 Signed GE-NEEG-NFSCM-QA By AMAGE MATE: 5/27,19 88 Signed GE-NEEG-NFSCM-QA By AMAGE MATE: 5/27,19 88 Signed GE-NEEG-NFSCM-QA By AMAGE MATE: 5/27,19 88 Signed GE-NEEG-NFSCM-QA By AMAGE MATE: 5/27,19 88 Signed GE-NEEG-NFSCM-QA By AMAGE MATE: 5/27,19 88 Signed GE-NEEG-NFSCM-QA By AMAGE MATE: 5/27,19 88 Signed GE-NEEG-NFSCM-QA By AMAGE MATE: 5/27,19 88 Signed GE-NEEG-NFSCM-QA BY AMAGE MATE: 5/27,19 88 Signed GE-NEEG-NFSCM-QA BY AMAGE MATE: 5/27,19 88 Signed GE-NEEG-NFSCM-QA BY AMAGE MATE: 5/27,19 88 Signed GE-NEEG-NFSCM-QA BY AMAGE MATE: 5/27,19 88 Signed GE-NEEG-NFSCM-QA BY AMAGE MATE: 5/27,19 88 Signed GE-NEEG-NFSCM-QA BY AMAGE MATERIAL BY AMAGE MATERIAL BY AMAGE MATERIAL BY AMAGE MATERIAL BY AMAGE MATERIAL BY AMAGE MATERIAL BY AMAGE MATERIAL BY AMAGE MATERIAL BY AMAGE MATERIAL BY AMAGE MATERIAL BY AMAGE MATERIAL BY AMAGE MATERIAL BY AMAGE MATERIAL BY AMAGE MATERIAL BY AMAGE MATERIAL BY AMAGE MATERIAL BY AMAGE MATERIAL BY AMAGE MATERIAL BY AMAGE MATERIAL BY AMAGE MATERIAL BY AMAGE MATERIAL BY AMAGE MATERIAL BY AMAGE MATERIAL BY AMAGE MATERIAL BY AMAGE MATERIAL BY AMAGE MATERIAL BY AMAGE MATERIAL BY AMAGE MATERIAL BY AMAGE MATERIAL BY AMAGE MATERIAL BY AMAGE MATERIAL BY AMAGE MATERIAL BY AMAGE MATERIAL BY AMAGE MATERIAL BY AMAGE MATERIAL BY AMAGE BY AMAGE BY AMAGE BY AMAGE BY AMAGE BY AMAGE BY AMAGE BY AMAGE BY AMAGE BY AMAGE BY AMAGE BY AMAGE BY AMAGE BY AMAGE BY AMAGE BY AMAGE BY AMAGE BY AMAGE BY AMAGE BY AMAGE BY AMAGE B
Ficate Of Authorization Expires: 6/16/90 Certification of Authorization No.: NPT N-1151
CERTIFICATION OF DESIGN FOR APPERTMENTS.
Design information on file at GZ COMPANY, SAN JOSE, CALIFORNIA
Stress analysis report on file at GZ COMPANY, SAN JOSE, CALIFORNIA DC22A6253 Rev. 0 Design specification certified by BJCRN HAABERG Prof. Eng. State CALIF. Reg. No. 15570 DC22A6254 Rev. 0. Stress analysis report certified by EDWARD YCSHIO Prof. Eng. State CALIF. Reg. No. M018646
CRETIFICATION OF SHOP INSPECTION
I, the undersigned, holding a valid commission by the National Board of Boiler and Pressure inspectors and/or the State or Province of NCRIM CAROLINA and employed by DEPARIMENT OF LABOR of STATE OF NORTH CAROLINA have inspected the part or a pressure vessel described in this artial Data Report on 5/27 19/1, and state that to the best of my knowledge and belief, the NPT Cartificate Boker has constructed this part in accordance with the ASME

Code Section III.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the part described in the Partial Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damages or a loss of any kind arising from or connected with this inspection. N.C. 723, PA.WC1766, OHIO

DATE Inspector's Signature

National Board, State, Province and No.

lemental sheets in form of lists, sketches or drawing may be used provided (1) size is "X 11", (2) information in 1-2 on this Data Report is included on each sheet, and (3) sheet is numbered and number of sheets is recorded in Item 3. "REMARKSS"

### MWR AS 2917

S/N A 8466. Ludip Supto 11/21/88.

#### FORM N-2 (back)

	Items 4-8 Incl.	to be comole	ted for	single wal	1 vessels	i, lackota	vessels, or s	shells of how	t exchange	ors.
S. Seasa: Long H.T.1 R.T. Cfficiency S. Cith H.T.1 R.T. No. of Courses T.S. Heads: (a) Material T.S. (b)Haterial T.S. (c)Haterial Healspherical Flat Side to Present Care (c) (a) (b) Course Radius Radius Radius Apex Angle Radius Dissater (conv.or cord. (a) (hiterial, Spec.No., T.S. Size Number) (Describe or attach exetch)  If resovedia, bolts used (hiterial, Spec.No., T.S. Size Number) (Describe or attach exetch)  If presents (Describe as ogee and weld, bar, sto. [f bar give dimensions, if bolts, describe or shot Drop Meight Chary Issat The Presents T. Charry Issat T. Charry Issat T. Charry Issat T. Charry Issat T. Charry Issat T. Charry Issat T. Charry Issat T. Charry Issat T. Charry Issat T. Charry Issat T. Charry Issat T. Charry Issat T. Charry Issat T. Charry Issat T. Charry Issat T. Charry Issat T. Charry Issat T. Charry Issat T. Charry Issat T. Charry Issat T. Charry Issat T. Charry Issat T. Charry Issat T. Charry Issat T. Charry Issat T. Charry Issat T. Charry Issat T. Charry Issat T. Charry Issat T. Charry Issat T. Charry Issat T. Charry Issat T. Charry Issat T. Charry Issat T. Charry Issat T. Charry Issat T. Charry Issat T. Charry Issat T. Charry Issat T. Charry Issat T. Charry Issat T. Charry Issat T. Charry Issat T. Charry Issat T. Charry Issat T. Charry Issat T. Charry Issat T. Charry Issat T. Charry Issat T. Charry Issat T. Charry Issat T. Charry Issat T. Charry Issat T. Charry Issat T. Charry Issat T. Charry Issat T. Charry Issat T. Charry Issat T. Charry Issat T. Charry Issat T. Charry Issat T. Charry Issat T. Charry Issat T. Charry Issat T. Charry Issat T. Charry Issat T. Charry Issat T. Charry Issat T. Charry Issat T. Charry Issat T. Charry Issat T. Charry Issat T. Charry Issat T. Charry Issat T. Charry Issat T. Charry T. Charry Issat T. Charry T. Charry Issat T. Charry T. Charry T. Charry T. Charry T. Charry T. Charry T. Charry T. Charry T. Cha	Shalla Makan		. N	ominei Nakaaa	Corr	rosion	. 01 10	in lamp		
Girth H.T.1 R.T. Efficiency :  Heades (a) Material I.S. I.S. (b)Material I.S.  Location (Top Crown Knuckle Elliptical Concial Hemispherical Flat Side to Present Concision (Top Bottos, Ends) Thickness Radius Radius Radius Radius Radius Disseter (conv.or cor (a) (b) If removable, bolts used (b) If removable, bolts used (b) If removable, bolts used (b) If removable, bolts used (b) If removable, bolts used (b) If removable, bolts used (b) If removable, bolts used (b) If removable, bolts used (b) If removable, bolts used (b) If removable, bolts used (b) If removable, bolts used (b) If removable, bolts used (b) If removable, bolts used (b) If removable, bolts used (b) If removable, bolts used (b) If removable, bolts (b) If removable, bolts (b) If removable, bolts (b) If removable, bolts (b) If removable, bolts (b) If removable, bolts (b) If removable, bolts (b) If removable, bolts (b) If removable, bolts (b) If removable, bolts (b) If removable, bolts (b) If removable, bolts (b) If removable, bolts (b) If removable, bolts (b) If removable, bolts (b) If removable, bolts (b) If removable, bolts (b) If removable, bolts used (a) (b) (c) Other Featoning (Describe or ettach sketch)  Location (a) If removable, bolts used (a) (b) (c) Other Featoning (Describe or ettach sketch Drop Meight (Charpes) (Radius Radius  . SUBILI MECSE	/Y lod & Som	) •	o ogganose	_u. All	W#162		n. conge	^	-m.	
Girth H.T. 1		tute a shee	בה) נטיני	1	D 1	<b>?</b>	Efficien	•	•	
Location (Too Crown Knuckle Elliptical Concial Mesispherical Flat Side to Present Solitos, Ends) Thickness Radius Radius Ratio Aper Angle Radius Dissets (conv.or con (4) (1) (Miterial, Spec.No., T.S. Size Number)  Jacket Closure: (Describe as ogee and weld, ber.etc. If bar give dissensions, if bolts, describe or shot Orop Meight Disset of Charpy Ispact Pressure 2 1250 psi at 575 Thickness in. Attachesent Attachesent Floating, Meterial Dis. Thickness in. Attachesent (Kind of Spec. No.) (Sudj.to Press.) (Meded, Bolte Floating, Meterial Dis. Thickness in. Attachesent Inches Original Corresion (Str. or U) (Str. or U) (Str. or U)  Leas Ill-14 incl. to be completed for inner chasbers of isoketed vessels, or channels of heat exchanges (I. Shell: Meterial T.S. Thickness in. Allowance in. Dis. ft. in Length ft. in. (KindsSpec.No.) (Min.ofRange Specifed)  2. Sesses Long H.T.¹ R.T. Efficiency Silve Material Town Knucle Elliptical Concial Mesispherical Fat Side to Presson (Salton, Tickness Radius Radius Radius Radius Radius Disseter (Conv.or Correspondant)  A. Design pressure Purpose Radius Radius Radius Radius Disseter (Conv.or Correspondant)  A. Design pressure Silve Disset Size Location (Salton) Number Disset Size Location (Charles) Radius Number Size Location (Charles) Radius Radius Radius Radius Radius Radius Radius Radius Radius Radius Radius Radius Radius Radius Radius Radius Radius Radius Radius Radius Radius Radius Radius Radius Radius Radius Radius Radius Radius Radius Radius Radius Radius Radius Radius Radius Radius Radius Radius Radius Radius Radius Radius Radius Radius Radius Radius Radius Radius Radius Radius Radius Radius Radius Radius Radius Radius Radius Radius Radius Radius Radius Radius Radius Radius Radius Radius Radius Radius Radius Radius Radius Radius Radius Radius Radius Radius Radius Radius Radius Radius Radius Radius Radius Radius Radius Radius Radius Radius Radius Radius Radius Radius Radius Radius Radius Radius Radius Radius Radius Radius Radius Radius Radius Radius Radius Radius Radius Radius R										
Location (Top Crown Knuckle Elliptical Concial Mesispherical Flat Side to Presidents, Ends) Thickness Radius Radius Ratio Apex Angle Radius Disseter (conv.or con (4) (4) (1) (Mahorial, Spec.No., T.S. Size Number)  Jacket Closurer (Mahorial, Spec.No., T.S. Size Number)  Jacket Closurer (Describe as ogee and weld, bar, etc. If bar give dissensions, if bolts, describe or shot Orop Meight (1) (Design Pressure 2 1250 psi at 575 7 Charpy Impact ft-lb at temp. of sf temp. of sf temp. of sf temp. of sf temp. of sf temp. of sf temp. of sf temp. of sf temp. of sf temp. of sf temp. of sf temp. of sf temp. of sf temp. of sf temp. of sf temp. of sf temp. of sf temp. of sf temp. of sf temp. of sf temp. of sf temp. of sf temp. of sf temp. of sf temp. of sf temp. of sf temp. of sf temp. of sf temp. of sf temp. of sf temp. of sf temp. of sf temp. of sf temp. of sf temp. of sf temp. of sf temp. of sf temp. of sf temp. of sf temp. of sf temp. of sf temp. of sf temp. of sf temp. of sf temp. of sf temp. of sf temp. of sf temp. of sf temp. of sf temp. of sf temp. of sf temp. of sf temp. of sf temp. of sf temp. of sf temp. of sf temp. of sf temp. of sf temp. of sf temp. of sf temp. of sf temp. of sf temp. of sf temp. of sf temp. of sf temp. of sf temp. of sf temp. of sf temp. of sf temp. of sf temp. of sf temp. of sf temp. of sf temp. of sf temp. of sf temp. of sf temp. of sf temp. of sf temp. of sf temp. of sf temp. of sf temp. of sf temp. of sf temp. of sf temp. of sf temp. of sf temp. of sf temp. of sf temp. of sf temp. of sf temp. of sf temp. of sf temp. of sf temp. of sf temp. of sf temp. of sf temp. of sf temp. of sf temp. of sf temp. of sf temp. of sf temp. of sf temp. of sf temp. of sf temp. of sf temp. of sf temp. of sf temp. of sf temp. of sf temp. of sf temp. of sf temp. of sf temp. of sf temp. of sf temp. of sf temp. of sf temp. of sf temp. of sf temp. of sf temp. of sf temp. of sf temp. of sf temp. of sf temp. of sf temp. of sf temp. of sf temp. of sf temp. of sf temp. of sf temp. of sf temp. of sf temp. of sf temp. of s	Girth	•	H.T.	1	<b>R</b> .	t. •	No. of C	nurses		
Location (Top Crown Knuckle Elliptical Concial Mesispherical Flat Side to Pres Sottos, Ends) Thickness Radius Radius Ratio Apex Angle Radius Disseter (conv.or cor (a) (b) (c) (la) (la) (la) (la) (la) (la) (la) (la	. Heads: (a) H	storial		I.S.		(b)Matori	al	T.S.		
Sotton, Ends   Thickness   Radius   Radius   Radius   Apex   Angle   Radius   Diameter   Conv.or cor (a) (b)										,
Sotton, Ends   Thickness   Radius   Radius   Radius   Apex   Angle   Radius   Diameter   Conv.or cor (a) (b)	Location (Top		Crown	Knuckle E	lliptical	i Concial	Homispheric	al Flat	Side to	Press.
(a)  (b)  If removeds, bolts used  (Natorial, Spec.No., T.S. Size Number)  (Describe or statch sketch)  (Describe as ogee and weld, ber.stc. If bar give dimensions, if bolts, describe or shet Orop Meight  (Describe as ogee and weld, ber.stc. If bar give dimensions, if bolts, describe or shet Orop Meight  (Cherry Issaet										
Other fastening (Natorial, Spec, No., T.S. Size Number) (Describe or attach skatch) (Alicela, Spec, No., T.S. Size Number) (Describe as oger and void, bar, stc. if bar give diseasions, if bolts, describe or and Drop Weight (Describe as oger and void, bar, stc. if bar give diseasions, if bolts, describe or and Drop Weight (Describe as oger and void, bar, stc. if bar give diseasions, if bolts, describe or and Drop Weight (Describe as oger and void, bar, stc. if bar give diseasions, if bolts, describe or and Drop Weight (These 9 and 10 to be completed for tube sections.  (Rices 9 and 10 to be completed for tube sections.  (Rid of Spec, No.) (Subj.to Prass.)  (Rid of Spec, No.) (Subj.to Prass.)  (Rid of Spec, No.) (Subj.to Prass.)  (In Tubes: Material O.D. in. Thickness or gage. Number Type (Str. or U)  (It was Ill-14 incl. to be completed for inner chambers of lackated vessels, or channels of heat exchanges  (Kind Spec, No.) (Min. of Range Specified)  (It was Ill-14 incl. to be completed for inner chambers of lackated vessels, or channels of heat exchanges  (Kind Spec, No.) (Min. of Range Specified)  (It was Ill-14 incl. to be completed for inner chambers of lackated vessels, or channels of heat exchanges  (Kind Spec, No.) (Min. of Range Specified)  (It was Ill-14 incl. to be completed for inner chambers of lackated vessels, or channels of heat exchanges  (Kind Spec, No.) (Min. of Range Specified)  (It was Ill-14 incl. to be completed for inner chambers of lackated vessels, or channels of heat exchanges  (Kind Specified)  (It was Ill-14 incl. to be completed for inner chambers of lackated vessels, or channels of heat exchanges  (Kind Specified)  (Kind Spec, No.) (Min. of Range Specified)  (It was Ill-14 incl. to be completed for inner chambers of lackated vessels, or channels of heat exchanges  (It was Ill-14 incl. to be completed for inner chambers of lackated vessels, or channels of heat exchanges  (It was Ill-14 incl. to be completed for inner chambers of lackated vessels, or channels of heat exchanges  (It was						_	•			
If removeols, bolts used (Material, Spec. No., T.S. Size Number)  7. Jacket Closurer (Describe as oger and veld, ber, stc. If bar give dimensions, if bolts, describe or shet (Describe as oger and veld, ber, stc. If bar give dimensions, if bolts, describe or shet or proposed in the proposed of the proposed of the proposed of the proposed of the proposed of the proposed of the proposed of the proposed of the proposed of the proposed of the proposed of the proposed of the proposed of the proposed of the proposed of the proposed of the proposed of the proposed of the proposed of the proposed of the proposed of the proposed of the proposed of the proposed of the proposed of the proposed of the proposed of the proposed of the proposed of the proposed of the proposed of the proposed of the proposed of the proposed of the proposed of the proposed of the proposed of the proposed of the proposed of the proposed of the proposed of the proposed of the proposed of the proposed of the proposed of the proposed of the proposed of the proposed of the proposed of the proposed of the proposed of the proposed of the proposed of the proposed of the proposed of the proposed of the proposed of the proposed of the proposed of the proposed of the proposed of the proposed of the proposed of the proposed of the proposed of the proposed of the proposed of the proposed of the proposed of the proposed of the proposed of the proposed of the proposed of the proposed of the proposed of the proposed of the proposed of the proposed of the proposed of the proposed of the proposed of the proposed of the proposed of the proposed of the proposed of the proposed of the proposed of the proposed of the proposed of the proposed of the proposed of the proposed of the proposed of the proposed of the proposed of the proposed of the proposed of the proposed of the proposed of the proposed of the proposed of the proposed of the proposed of the proposed of the proposed of the proposed of the proposed of the proposed of the proposed of the proposed of the prop	(b)									
(Raterial, Spec. No., 1.3. Size Number) (Describe or attach seatch)  (Describe as ogee and weld, bar, stc. If bar give dimensions, if bolts, describe or shat Drop Neight  (Describe as ogee and weld, bar, stc. If bar give dimensions, if bolts, describe or shat Drop Neight  (Drop Neight  (Raterial	If removeols,	bolts used				Other fas	tening		<del></del>	
(Describe as ogne and weld, bar, atc. If bar give disensions, if bolts, describe or shot Drop Melight  3. Design Pressure 2 1250 psi at 575 % Charpy Isoact ft-lb at temp. of temps at temp. of temps at temp. of temps at temp. of temps at temp. of temps at temp. of temps at temp. of temps at temp. of temps at temp. of temps at temp. of temps at temp. of temps at temp. of temps at temp. of temps at temp. of temps at temp. of temps at temp. of temps at temp. of temps at temp. On the temps at temps. On the temps at temps at temps at temps. On the temps at temps at temps at temps. On the temps at temps at temps at temps at temps at temps at temps at temps. On the temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps. On the temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps at temps a	-	(Mitorial	.Spec.No	., T.S. SI	ze Number	<del>.</del> )	(Descri	be or attach	skatch)	
Otop Venight Charpy Insact ft-ib at temp. of ft-ib at temp. of ft-ib at temp. of ft-ib at temp. of ft-ib at temp. of ft-ib at temp. of ft-ib at temp. of ft-ib at temp. of ft-ib at temp. of ft-ib at temp. of ft-ib at temp. of ft-ib at temp. of ft-ib at temp. of ft-ib at temp. of ft-ib at temp. of ft-ib at temp. of ft-ib at temp. of ft-ib at temp. of ft-ib at temp. of ft-ib at temp. of ft-ib at temp. of ft-ib at temp. of ft-ib at temp. of ft-ib at temp. of ft-ib at temp. of ft-ib at temp. of ft-ib at temp. of ft-ib at temp. of ft-ib at temp. of ft-ib at temp. of ft-ib at temp. of ft-ib at temp. of ft-ib at temp. of ft-ib at temp. of ft-ib at temp. of ft-ib at temp. of ft-ib at temp. of ft-ib at temp. of ft-ib at temp. of ft-ib at temp. of ft-ib at temp. of ft-ib at temp. of ft-ib at temp. of ft-ib at temp. of ft-ib at temp. of ft-ib at temp. of ft-ib at temp. of ft-ib at temp. of ft-ib at temp. of ft-ib at temp. of course  [Str. or U)  [Committed to be completed for inner chambers of lacketed vessels, or channels of heat exchanges are ft-ib at temp. of courses  [Str. or U)  [Committed to be completed for inner chambers of lacketed vessels, or channels of heat exchanges are ft-ib at temp. of course  [Str. or U)  [Committed to be completed ft-inner chambers of lacketed vessels, or channels of heat exchanges  [Str. or U)  [Committed to be completed ft-inner chambers of lacketed vessels, or channels of heat exchanges  [Str. or U)  [Committed to be completed ft-inner chambers of lacketed vessels, or channels of heat exchanges  [Str. or U)  [Committed to be completed ft-inner chambers of lacketed vessels, or channels  [Str. or U)  [Committed to be completed ft-inner chambers of lacketed vessels, or channels  [Str. or U)  [Committed to be completed ft-inner chambers of lacketed vessels, or channels  [Str. or U)  [Committed to be completed ft-inner chambers of lacketed vessels, or channels of heat exchanges  [Str. or U)  [Committed to be completed ft-inner chambers of lacketed vessels, or channels of heat exchanges  [Str	7. Jacket Closu									
Thickness   In. Attachment   Cxind of Spoc. No.)   Cxo.   Thickness   In. Attachment   Cxind of Spoc. No.)   Cxo.   Thickness   In. Attachment   Cxind of Spoc. No.)   Cxo.   Thickness   In. Attachment   Cxind of Spoc. No.)   Cxo.   Thickness   In. Attachment   In. Thickness   In. Attachment   In. Thickness   In. Attachment   In. Thickness   In. Attachment   In. Thickness   In. Attachment   In. Thickness   In. Attachment   In. Thickness   In. Attachment   In. Cxo.   In. Thickness   In. Attachment   In. Cxo.   In. Thickness   In. Attachment   In. Cxo.   In. In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.   In.		(Describe a	s ogee a	nd wold, be	r,ste. If	bar give	dimensions, i	f bolts, dos	cribe or :	shatch
Thickness   In. Attachment   Ckind of Spec. No.   (Suoj.to Press.)   (Melded, Bolte Floating. Material   O.D.   In. Thickness   In. Attachment   (Mind of Spec. No.   (Suoj.to Press.)   (Melded, Bolte Floating. Material   O.D.   In. Thickness   In. Attachment   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   In. Attachment   Inches   Inches   In. Attachment   In.   Inches   In. Attachment   In.   Inches   In.   In		_			•	-	Drop Ye	ight		
Thickness   In. Attachment   Ckind of Spoc. No.) (Suoj.to Press.)   (Nelded, Bolte Floating. Material   O.O.   In. Thickness   In. Attachment   (Nelded, Bolte Floating. Material   O.O.   In. Thickness   In. Attachment   Inches   Inches   Inches   In. Attachment   Inches   Inches   In. Attachment   Inches   In. Attachment   Inches   In. Attachment   Inches   In. Attachment   Inchess   In. Attachment   In.   Inchess   In. Attachment   In.	B. Design Press	ure <sup>2</sup> 125	Ю	pai e	t57	15 <b>°</b> F	Charpy	Impact	w-11	b
Thickness   In. Attachment   Ckind of Spec. No.   (Suoj.to Press.)   (Melded, Bolte Floating. Material   O.D.   In. Thickness   In. Attachment   (Mind of Spec. No.   (Suoj.to Press.)   (Melded, Bolte Floating. Material   O.D.   In. Thickness   In. Attachment   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   In. Attachment   Inches   Inches   In. Attachment   In.   Inches   In. Attachment   In.   Inches   In.   In		•					at temp	. of	•	ſ
P. Tube Sheets: Stationary Mat'l.  (Xind of Spec. No.) (Subj.to Press.)  Floating. Material  O.D. Thickness in. Attachment inches  1D. Tubes: Material  O.D. in. Thickness or gags. Number Type  (Str. or U)  Items: Il-14 incl. to be completed for inner chambers of lacketed vessels, or channels of heat exchanges  Nominal Corrosion  Il. Shell: Material T.S. Thickness in. Allowance in. Dis. ft. in Length ft. in.  (Kind&Spec.No.) (Min.ofRange Specified)  12. Seass: Long H.T. R.T. Efficiency  Girth M.T. No. of Courses  13. Meads (a) Material T.S. (b)Material T.S. (b)Material T.S.  (a)Top Sottom, Tichkness Radius Radius Ratio Apex Angle Radius Disseter (Conv.or Conferd  (a)Top, Sottom, Tichkness Radius Radius Ratio Apex Angle Radius Disseter (Conv.or Conferd  (b)Channel  If removable, bolts used (a) (b) (c) Other Fastening  (Describe or staten sketch  Drop Maight  Charry Impact The  Attended The  State Continual Radius Radius Type Material Thickness Material Attach  Outlet, Orain) Number Dia or Size Type Material Thickness Material Attach  Openings: Mandles, No. Size Legs (Cher. Attached  (Yose or No) (Number) (Opening) (Opening) (Where & How)  (Yose or No) (Number) (Opening) (Opening) (Where & How)  (Yose or No) (Number) (Opening) (Opening) (Where & How)										
(Kind of Spec. No.) (Subj.to Press.) (Welded, Bolte Floating, Material Dia, Thickness in. Attacheent Inches or gage. Number Type  [10. Tubes: Material 0.0. in. Thickness or gage. Number Type (Str. or U)  [tems: Il-14 incl. to be completed for inner chambers of lackoted vessels. or channels of heat exchanger Nominal Corrosion  [11. Shell: Material 1.5. Thickness in. Allowance in. Dia. ft. in_length ft. in. (Kind&Spec.No.) (Min.ofRange Specified)  [12. Seass: Long N.T. R.T. Efficiency :  [13. Meads (a) Material T.S. (b)Material T.S. (b)Material T.S. (b)Material T.S. (b)Material T.S. (a)Top. Bottom, Tichkess Radius Radius Ratio Apex Angle Radius Diameter (Conv. or Conferd (b)Channel  [14. Design pressure	Itams 9 and 10 t	o be comolet	ed for to	ube section	ns.					
(Kind of Spec. No.) (Subj.to Press.) (Welded, Bolte Floating. Material Dis. Thickness in. Attacheent Inches or gage. Number Type  [10. Tubes: Material 0.0. in. Thickness or gage. Number Type (Str. or U)  [tres: Il-14 incl. to be completed for inner chambers of lackoted vessels. or channels of heat exchanger Nominal Corrosion  [Il. Shell: Material 1.5. Thickness in. Allowance in. Dis. ft. in_length ft. in. (Kind&Spec.No.) (Min.ofRange Specified)  [Il. Seass: Long N.T. R.T. Efficiency :  [Il. Seass: Long N.T. R.T. No. of Courses II. Material I.S. (b)Material I.S. (b)Material I.S. (continued the subspecified to the standard to the st										
ID. Tubes: Material Q.D. in. Thickness or gage. Number Type (Str. or U)    Items: 11-14 incl. to be completed for inner chambers of lackated vessels, or channels of heat exchanges   Nominal   Corresion	7. Tuba Shaats:	Stationary	Hat'1		Ota :		Thickness	in. Attach	ment	
ID. Tubes: Material Q.D. in. Thickness or gage. Number Type (Str. or U)    Items: 11-14 incl. to be completed for inner chambers of lackated vessels, or channels of heat exchanges   Nominal   Corresion			(Xir	nd of Spec	. No.) (	جع ط.زماد.	:::::	(	Xelded, B	olted)
ID. Tubes: Material Q.D. in. Thickness or gage. Number Type (Str. or U)    Items: 11-14 incl. to be completed for inner chambers of lackated vessels, or channels of heat exchanges   Nominal   Corresion	, F	losting. Het	eriel		Dia		icknessin	. Attachment		
Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Com					••••	inche	38	_		
Tress: 11-14 incl. to be completed for inner chambers of jacketed vessels, or channels of heat exchanger   Nominal   Corrosion	W. Tubes: Mater	181		·n.	intexness	as a	ada. Mnaper	i Abs		
Nosinel   Carrosion   Carros	,							(	Ser. or u	)
Nominal   Carrosion   Carros										
Location Crown Knucle Eliptical Conciel Homispherical Fat Side to Pre-  (a) Top, Bottom, Ticnkess Radius Radius Ratio Apex Angle Radius Diameter (Conv.or Core End  (b) Channel  If removable, bolts used (a)  (b) (c) Other Fastoning  (Describe or attach sketch  Drop Neight  Charpy Leaset The  Attach  It cas below to be consoleted for all vessels where applicable.  15. Safety Valve Outlets: Number Size Location  16. Nazzles:  Purpose (Inlet Quilet, Orain) Number Dia or Size Type Material Thickness Material Attach  Quilet, Orain) Number Size Location  17. Inspection Manholes, No. Size Location  Threaded, No. Size Location  Threaded, No. Size Location  18. Supports: Shirt Lugs Legs Other Attached  (Yes or No) (Number) - (Number) (Describe) (Nerce & Now)	12. Sesse: Long		[-1	R.T		ifficiency_				
(a) Top, Bottom, Tichkess Radius Radius Ratio Apex Angle Radius Dissetar (Conv.or Content End  (b) Channel  If removable, bolts used (a)  (b) (c) Other Fastening  (Describe or attach sketch Drop Weight  Charpy Immedia of effective at temp. of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective of effective	13. Heeds (a) Ma	terial		1.5		(b)	Anterial	1	.5.	
(a) Top, Bottom, Tichkess Radius Radius Ratio Apex Angle Radius Dissetar (Conv.or Content End (b) Channel  If removable, bolts used (a)  (b) (c) Other Fastening (Describe or attach sketch Drop Weight Charpy Immedia of effective at temp. of effective of et temp. of effective of extreme to end to be completed for all vessels where applicable.  15. Safety Valve Outlets: Number Size Location  16. Nazzles: Purpose (Inlat Quiet, Orain) Number Dia or Size Type Material Thickness Material Attach Quiet, Orain Hanholes, No. Size Location  17. Inspection Manholes, No. Size Location Thresded, No. Size Location  18. Supports: Shirt Lucs Legs Other Attached (Yes or No) (Number) (Describe) (Where & How)	Location		Crown	Knucle E	lliptical	Conciel	Homispheri	cal Fat	Side to	Press
End (b)Channel  If resovable, bolts used (a) (b) (c) Other Fastening  (Describe or attach sketch  Drop Weight Charpy Isoact It. Design pressure <sup>2</sup> psi at ef at test. of ef  Items below to be concleted for all vessels where spolicable.  15. Safety Yalve Outlets: Number Size Location  16. Nozzles: Purpose (Inlat Qutlet, Orain) Number Dia or Size Type Material Thickness Material Attack  Qutlet, Orain) Number Dia or Size Location  17. Inspection Manholes, No. Size Location  Openings: Handles, No. Size Location  Threaded, No. Size Location  18. Supports: Shirt Luca Legs Other Attached  (Yes or No) (Number) (Number) (Describe) (Where & How)	(a) Top. Bottom.	Tichkess	Radius	Radius	Ratio	Apex Angle	a Radius	Diameter	(Canv.ar	
If resovable, bolts used (a) (b) (c) Other Fastening (Describe or attach sketch Drop Meight Charpy Least 14. Design pressure psi at state of effect the state of effect the sketch of state of effect the sketch of effect the sketch of effect the sketch of effect the sketch of effect the sketch of effect the sketch of effect the sketch of effect the sketch of effect the sketch of effect the sketch of effect the sketch of effect the sketch of effect the sketch of effect the sketch of effect the sketch of effect the sketch of effect the sketch of effect the sketch of effect the sketch of effect the sketch of effect the sketch of effect the sketch of effect the sketch of effect the sketch of effect the sketch of effect the sketch of effect the sketch of effect the sketch of effect the sketch of effect the sketch of effect the sketch of effect the sketch of effect the sketch of effect the sketch of effect the sketch of effect the sketch of effect the sketch of effect the sketch of effect the sketch of effect the sketch of effect the sketch of effect the sketch of effect the sketch of effect the sketch of effect the sketch of effect the sketch of effect the sketch of effect the sketch of effect the sketch of effect the sketch of effect the sketch of effect the sketch of effect the sketch of effect the sketch of effect the sketch of effect the sketch of effect the sketch of effect the sketch of effect the sketch of effect the sketch of effect the sketch of effect the sketch of effect the sketch of effect the sketch of effect the sketch of effect the sketch of effect the sketch of effect the sketch of effect the sketch of effect the sketch of effect the sketch of effect the sketch of effect the sketch of effect the sketch of effect the sketch of effect the sketch of effect the sketch of effect the sketch of effect the sketch of effect the sketch of effect the sketch of effect the sketch of effect the sketch of effect the sketch of effect the sketch of effect the sketch of effect the sketch of effect the sketch of effect										
(Describe or attach sketch Drop Weight Charpy Legact Pf at tomp, of of  Items below to be completed for all vessels where spolicable.  Items below to be completed for all vessels where spolicable.  Items below to be completed for all vessels where spolicable.  Items below to be completed for all vessels where spolicable.  Items below to be completed for all vessels where spolicable.  Items below to be completed for all vessels where spolicable.  Items below to be completed for all vessels where spolicable.  Items below to be completed for all vessels where spolicable.  Items below to be completed for all vessels where spolicable.  Items below to be completed for all vessels where spolicable.  Items below to be completed for all vessels where spolicable.  Items below to be completed for all vessels where spolicable.  Items below to be completed for all vessels where spolicable.  Items below to be completed for all vessels where spolicable.  Items below to be completed for all vessels where spolicable.  Items below to be completed for all vessels where spolicable.  Items below to be completed for all vessels where spolicable.  Items below to be completed for all vessels where spolicable.  Items below to be completed for all vessels where spolicable.  Items below to be completed for all vessels where spolicable.  Items below to be completed for all vessels where spolicable.  Items below to be completed for all vessels where spolicable.  Items below to be completed for all vessels where spolicable.  Items below to be completed for all vessels where spolicable.  Items below to be completed for all vessels where spolicable.  Items below to be completed for all vessels where spolicable.  Items below to be completed for all vessels where spolicable.  Items below to be completed for all vessels where spolicable.  Items below to be completed for all vessels where spolicable.  Items below to be completed for all vessels where spolicable.  Items below to be completed for all vessels where spolicable.  Items below to be com	(b)Channel									
(Describe or attach sketch Drop Weight Charpy Legact 14. Design pressure2  psi at	If removable, bo	its used (a)	)	(5)	(c)	Other Fast	pning			
Cherry Isoact ft-  14. Design pressure 2 psi at stamp, of stamp, of stamp least to the pressure 2 psi at stamp, of stamp least to the pressure 2 psi at stamp, of stamp least to the pressure 2 psi at stamp, of stamp least to the pressure 2 psi at stamp, of stamp least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least le						-		be or attach	aketen	
Cherry Isoact ft-  14. Design pressure 2 psi at stamp, of stamp, of stamp least to the pressure 2 psi at stamp, of stamp least to the pressure 2 psi at stamp, of stamp least to the pressure 2 psi at stamp, of stamp least to the pressure 2 psi at stamp, of stamp least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least least le							Drop We	rignt		
A. Design pressure	•	_	~				Charpy	I an act		W-10
15. Safety Valve Outlets: Number Size Location  16. Nazzles: Purpose (Inlet Quilet, Orain) Number Die or Size Type Material Thickness Material Attack  17. Inspection Manholes, No. Size Location Chemings: Handles, No. Size Location Threaded, No. Size Location  18. Supports: Shirt Lugs Legs Other Attached (Yes or No) (Number) (Number) (Describe) (Where & How)	l4. Design pr <del>es</del> s	rura <sup>Z</sup>		psi	at		_ef at temp	o. of		_•F
15. Safety Valve Outlets: Number Size Location  16. Nazzles: Purpose (Inlet Qutiet, Orain) Number Die or Size Type Material Thickness Material Attack  17. Inspection Manholes, No. Size Location Chemings: Handles, No. Size Location Threaded, No. Size Location  18. Supports: Shirt Luce Lege Other Attached (Yes or No) (Number) (Number) (Describe) (Where & How)	Items below to b	e completed	for ell	vessels wh	ere spol	cable.	······································			
Purpose (Inlet Quilet, Orain) Number Dim or Size Type Material Thickness Material Attack  17. Inspection Manholes, No. Size Location Openings: Handles, No. Size Location Threaded, No. Size Location  18. Supports: Shirt Lugs Legs Other Attached (Yes or No) (Number) (Number) (Describe) (Where & How)										
Purpose (Inlet   Reinforcement   Reinforcement   Qutlet, Orain)   Number   Die or Size   Type   Material Thickness   Material   Attack    17. Inspection   Manholes, No.   Size   Location   Coentings:   Handles, No.   Size   Location   Coentings   Threaded, No.   Size   Location   Location    18. Supports: Shirt   Lugs   Legs   Other   Attached   Cyes   Orace   Cyes   Cye	15. Safety Yalve	Outlets: Nu	lapet	· 	S128		Location			
Purpose (Inlet   Reinforcement   Reinforcement   Qutlet, Orain)   Number   Die or Size   Type   Material Thickness   Material   Attack    17. Inspection   Manholes, No.   Size   Location   Coentings:   Handles, No.   Size   Location   Coentings   Threaded, No.   Size   Location   Location    18. Supports: Shirt   Lugs   Legs   Other   Attached   Cyes   Orace   Cyes   Cye	16 Varrian									
Qutlet, Orain) Number Die or Size Type Material Thickness Material Attack  17. Inspection Manholes, No. Size Location								2-1-6	a è	
17. Inspection Manholes, No. Size Location  Openings: Handles, No. Size Location  Thresded, No. Size Location  19. Supports: Shirt Location  (Yes or No) (Number) (Number) (Describe) (Where & How)			^	1- a- CI-	Tues	Wabasia!	Thisbane			
Openings: Handles, No. Size	derac' near	ii, acec	ide O	rm at 3152	1 ype	uacatia!	INTEXHERE	Vacaciar.	ΑC	###!#IQ
Openings: Handles, No. Size		<del></del>			•	<i>-</i>				
Openings: Handles, No. Size	,			<del></del>	. —	-				
Openings: Handles, No. Size	17 Inspection	Manhalas N	<b>L</b>	1 C 1	••	1				
Threaded, No. Siza - Location - Location - Location - Location - Other - Attached (Yes or No.) (Number) - (Number) (Describe) (Where & How)		neurotos, n	~	2;						
19. Supports: Shirt Lugs Legs Other Attached (Yos or No) (Number) (Number) (Describe) (Where & How)	Obantuda t	nesiditas, n	····							
(Yos or No) (Number) - (Number) (Describe) (Where & How)		Throughout W				- 1	ير بالإنتال شفكة			
(Yos or No) (Number) - (Number) (Describe) (Where & How)		Threaded, N	···				-			
1 If Postwold Heat-Troated.	19. Supports: S	Threeded, N	···				Other	1++nring+11		
was a successive and the successive	19. Supports: S	Throaded, M ihirt	·	_Luga	Lac	Ç18			bere & Mo	<del>-)</del>
2 . List other internal or external pressure with conincident temperature when applicable.		Threeded, N Shirt (Yes or	·	_Luga	Lac	Ç18			here & Ho	<del>-)</del>

## FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

1. Owner: Washington Public Power Supply System
Address: 3000 George Washington Way, Richland, WA

Date: 5/19/90 Sheet: 1 of 1

Unit: WNP-2

2. Plant: WPPSS Nuclear Power Plant (WNP)

Address: Hanford, Benton County, WA

3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA

(b) Repair Organization P.O. No., Job No., etc.: WPPSS

4. Identification of System: Control Rod Drive (CRD)

5. (a) Applicable Construction Code ASME Section III: 1971 Edition with no Addenda, Code Case: None

(b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition, Winter 1980 Addenda, Code Case: N-308

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
CRD CT&F	GE GE	7138, A8486	N/A N/A	N/A N/A	1975 1988	Replacement Replacement	Yes, Class 1 Yes, Class 1

#### 7. Description of Work:

- > Existing Control Rod Drive (CRD) Serial Number 7138, ASME Section III, Code Class 1, 1971 Edition with no Addenda
- > New replacement Cylinder Tube and Flange (CT&F) assembly Serial Number A8486, ASME Section III, Code Class 1, 1974 Edition with Winter 1975 Addenda
- > Disassembled CRD for overhaul. Performed PT examination on the CT&F assembly. PT examination results were evaluated to be unacceptable. Performed visual examination on the piston tube assembly. Visual examination results acceptable. Reassembled CRD parts and installed new replacement CT&F assembly.
- > Note: The entire CRD assembly is now identified by the new replacement CT&F serial number

A	XYSECHOLOR &	प्याप्य शक्ता
	SUPPLY	SYSTEM

	FORM NIS-2 (Back)
8.	Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other X None Test Pressure: Psig Test Temperature: OF Component Design Pressure: Psig Temperature: OF
9.	Remarks: See attached N-2 Code Data Report for new replacement Cylinder Tube and Flange (CT&F) assembly Serial Number A8486
ſ	7
	CERTIFICATE OF COMPLIANCE
	We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.  Type Code Symbol Stamp: Not applicable  Certificate Authorization No.: Not applicable  Expiration Date: Not Applicable
	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
	Prepared by Culculp Guillo Signed  Plant Technical Manager  Date 5/19/90.  Date 5-21-90
	Date 5/19/90. Date 5-21-90
1 . 1	
	CERTIFICATE OF INSERVICE INSPECTION
	I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 5/6/10 to 5/22/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.  By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.    Commissions   956/0
	1réspector's Signature National Board, State, and Endorsements
	Date <u>5/22/90</u>

MWK AS 2919 Buldip Eurob 5/1919
FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPRELEMENTES*  As required by the Provision of the ASME Code Rules, Section III, Div. 1
. Manufactured & Certified by: GE Company, 2117 Castle Hayne Rd., Wilmington, N.C. 28402 (Name and Accress or NPT Certificate Holder)
(Name and Accress of NPT Certificate Holder)  (b) Manufactured for: WNP-2, RICHLAND, Wa. 99352  (Name and Accress of N Certificate Holder for completed nuclear component)
Toentification-Certificate Holders's S/N of Part: A8486 Nat'l Ed. No. N/A
(a) Constructed According to Drawing No: 919D258G003 Dwg. Prepared by D. L. Peterson
(b) Description of Part Inspected: CYLINDER TUBE & FLANGE
(c) Applicable ASME Code: Section III, Edition 1974, Addenda Date W'75 Case No. 1361-2 Class 1
©REMARKS: Sub-assembly of Control Rod Drive for use with reactor.  (Brier description of service for which component was designed)  Eydrostatically tested at 1825 csi. min.
Sheet 1 of 2
E certify that the statements in this report are correct and this vessel part or appurtenance is defined in the code conforms to the rules of construction of the ASME Code Section III. The applicable Designed Specification and Stress Report are not the responsibility of the NPT certificate Holder for parts. An NPT Certification Holder for appurtenances is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is not included in the component Design Specification and Stress Report).  MIE: 5/27,19 88 Signed GE-NEBG-NF&CM-QA By MARKET MARKET STREAM BY MARKET MARKET MARKET STREAM BY MARKET MARKET MARKET STREAM BY MARKET MARKET MARKET MARKET STREAM BY MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKE
cate Of Authorization Expires: 6/16/90 Certification of Authorization No.: NPT N-1151
CRETFICATION OF DESIGN FOR APPUREMENCS
Design information on file at GZ COMPANY, SAN JOSE, CALIFORNIA
Stress analysis report on file at GZ COMPANY, SAN JOSE, CALIFORNIA CC22A6253 Rev. 0 Design specification certified by BJORN HAABERG Prof. Eng. State CALIF. Reg. No. 15570 DC22A6254 Rev. 0. Stress analysis report certified by EDWARD VOSHIO Prof. Eng. State CALIF. Reg. No. M018646
CRETIFICATION OF SHOP INSPECTION
I, the undersigned, holding a valid commission by the National Board of Boiler and Pressure inspectors and/or the State or Province of NCRIH CAROLINA and employed by DEPARIMENT OF LABOR if STATE OF NCRIH CAROLINA have inspected the part of a pressure vessel described in this fartial lata Report on 5/27 1907, and state that to the best of my knowledge and belief, the NFT Certificate Holder has constructed this part in accordance with the ASME

" interestal sheets in form of lists, sketches or drawing may be used provided (1) size is X 11", (2) information in 1-2 on this Data Report is included on each sheet, and (3) except is numbered and number of sheets is recorded in Item 3. "REMARKSS"

inspector's Signature

By signing this certificate, neither the Inspector nor his employer makes any warranty, impressed or implied, concerning the part described in the Partial Data Report. Furthermore, wither the Inspector nor his employer shall be liable in any manner for any personal injury or property damages or a loss of any kind arising from or connected with this inspection.

N.C. 723.PA.WC1766, OHIO

National Board, State, Province and No.

10/77)

MIE

bde Section III.

## MWR AS 2919

5/N A 8486 Kuron's Euros 11/21/88

### FORM N-2 (back)

100	38 400	111-20	40 00 00-0		42:24	ATT AGREET	1 JACKOLA	AGBEGIE' OL	RUGITE OF UGE	t exchangers.
					Homical	Car	rosion			
4.	Shell:	Xatas	:ielT.	.s	Thickness	in. Allo	MEUCO	n Dieft	in. Lengt	h_ftin.
			(King & So	AC.NO)(N	in an Xanc	# 50#C1[1#C	1)			
5.	Scare:	Long		H.T	·	R.1	「- <u></u>	Efficie	ncy	<u>`</u>
_		Girt		н.т	· •	R.`	r	Na. of 1	Courses T.S	
6.	Heads:	(a) }	(etaria)		T.S	•	_(p)Wateri	al	_T.S	
Ĺ									cal Flat	
	Batton,	Ends)	Mickness	Redius	Radius	Ratio	Ybex Yudi	a Radius	Dismoter	(conv.or conc.)
(1	!}									-
()	)									
1	f remov	able,	polfa med				_Other [44	tening		
				al,5pec.X	a., T.S.	Size Number		(Doccr	ibe or attach	skatch)
7.	Jacket	.Clos	15.0:							
			(Describe	se ogee	and wold,	ber, etc. Il	ipar dive	dimensions,	if bolts, des	cribe or shetch)
_		_			_			Drop W	eight	
8.	Design	Presi	nto 4	250	0a1	at5	15 °F	Charpy	Ispact	tc-1p
								, at tom	eight Ispect . of	•r
						•			•	<del></del>
Ite	ms 9 an	<u>d 10 t</u>	to be compli	eted for	tube sect	ions.				
9.	Tube S	heats:	: Stationer	y Mat'l	<del></del>	Dia		Thicknes	_in. Attach	acut
		_		(K	and of Sp	ac. No.) (	Subj. to Pr	56S.)	, , , , , , , , , , , , , , , , , , ,	Welded, Bolted)
			losting, M	atorial _		012		rckuessn	n. Attachment	
							nch	0 <b>4</b>	_	Str. or U)
w.	. Tubes:	Hate	121		ກ •ກາ	. Thickness	org	ags. Nuaber	Iypa	
									(	Str. or U)
-								•		
<u>It</u> :	es II-I	4 incl	. ಚಾರಿಕ ಜಾ					vessals, or	channels of h	est exchangers
						Carro				
11.	Shall:	Mator	ialT.	sTh	ickness	_in. Allows	ncsn.	Dieft	_inLength_	_ftis.
		(Kir	dåSpoc.Na.	) (Hin.o	<b>19-00-</b> 50					
		• -		• • • • • • • • • • • • • • • • • • • •	numbersh	ACTL TOTA		-		
			•		• •			-		
12.	Scape:		•		• •		:[fficiency_		:	
12.	Scass:		•		• •		Officiency_ la. of Cauc	368		
12. 13.	. Seess:		•		• •		Officiency_ la. of Cour (b)	ses Matorial	<b>;</b>	.s
12. 13.	Sease: Heads	Long Girth (æ) Xe	H. Itorial	T.I.	R.T. R.T. Knucle	.SElliptical	Officiency (a. of Court (b) Conciel	ses Matorial Homispher:	ical Fat	.SSide to Press
12. 13.	Seasa: Heads Ocation Top, 8	Long Girth (æ) Xe	H. Itorial	T.I.	R.T. R.T. Knucle	.SElliptical	Efficiency (a. of Cour- (b) Conciel Apex Angl	ses Material Homispher: o Radius	ical Fat Diameter	.S. Side to Press (Conv.or Conc.)
(1	End	Long Girth (a) He ottom,	H. Itorial	T.I.	R.T. R.T. Knucle	.SElliptical	(b) Concial Apax Angl	ses Material Memispher e Radius	ical Fat Diameter	.S. Side to Press (Conv.or Conc.)
(±	i)Top, 8 End i)Channe	Long Girth (a) He ottom,	H H. storial Ticokess	Crown Radius	R.T. R.T. Knucle Radius	.S Elliptical Ratio	Apex Angl	e Radius	Diameter	.SSide to Press (Conv.or Conc.)
(±	i)Top, 8 End i)Channe	Long Girth (a) He ottom,	H terial Ticokess	Crown Radius	R.T. R.T. Knucle Radius	.S Elliptical Ratio	Apex Angl	e Radius	Disastor	(Canv.ar Conc.)
(±	i)Top, 8 End i)Channe	Long Girth (a) He ottom,	H terial Ticokess	Crown Radius	R.T. R.T. Knucle Radius	.S Elliptical Ratio	Apex Angl	taning (Descr	Dismotor	(Conv.or Conc.)
(±	i)Top, 8 End i)Channe	Long Girth (a) He ottom,	H terial Ticokess	Crown Radius	R.T. R.T. Knucle Radius	.S Elliptical Ratio	Apex Angl	taning (Description Views)	Diameter  ibe or attach	skaten
(4 (t If	i)Top, 8 End i)Channe removab	Long Girth (a) He ottos, 1 le, bo	H. H. H. Ticnkess	Crown Radius	R.T. R.T. Knucle Radius	.S	Apex Angl	taning (Description Views)	Diameter  ibe or attach	skaten
(4 (t If	i)Top, 8 End i)Channe	Long Girth (a) He ottos, 1 le, bo	H. H. H. Ticnkess	Crown Radius	R.T. R.T. Knucle Radius	.S	Apex Angl	tening (Descr: Orop Wi	Dismotor	sketch
(4 (t If	i)Top, 8 End i)Channe removab	Long Girth (a) He ottos, 1 le, bo	H. H. H. Ticnkess	Crown Radius	R.T. R.T. Knucle Radius	.S	Apex Angl	tening (Descr: Orop Wi	Diameter ibe or attach sight Impact	sketch
(t) If	()Top, 8 End ()Channe removab	tang Girth (a) He attom, il le, bo	H. H. H. Ticnkess	Crown Radius	R.T. R.T. Knucle Radius (b)	S. Elliptical Ratio (c)	Other Fas	tening (Descr: Orop Wi	Diameter ibe or attach sight Impact	sketch
(t) If	()Top, 8 End ()Channe removab	tang Girth (a) He attom, il le, bo	H. H. H. H. Ticnkess alts used (1	Crown Radius	R.T. R.T. Knucle Radius (b)	.S	Other Fas	tening (Descr: Orop Wi	Diameter ibe or attach sight Impact	sketch
(tr)	Design	Long Girth (a) He ottom, I le, bo press w to t	H. H. H. H. Ticnkess alts used (1	Crown Radius	R.T. R.T. Knucle Radius (b)	S. Elliptical Ratio (c)	Other Fas	tening (Descr: Orop Wi	Diameter ibe or attach sight Impact	sketch
(tr)	Design	Long Girth (a) He ottom, I le, bo press w to t	H. H. H. H. Ticnkess (1)	Crown Radius	R.T. R.T. Knucle Radius (b)	.S	Other Fas	tening (Description of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control o	Diameter ibe or attach sight Impact	sketch
(t) If I4.	Design	Long Girth (a) No ottom, ile, bo promi w to b	H. H. H. H. Ticnkess (1)	Crown Radius	R.T. R.T. Knucle Radius (b)	.S	Other Fas	tening (Description of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control o	Diameter ibe or attach sight Impact	sketch
(t) If I4.	() Top, 8 End () Channe removab  Design mas belo	Long Girth (a) He ottom; ile, bo press w to b Valve	Historial Tichkess alts used (a	Crown Radius	R.T. R.T. Knucle Radius (b)	.S	Other Fas	tening (Description of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control o	Diameter ibe or attach sight Impact	skatch  ft-lb  ef
(t) If I4.	Design Safety Nozzle	Long Girth (a) He ottom; ile, bo press w to b Yalve s: (Int	H. H. H. H. Ticnkess slts used (state) sure2 to complete state	Crown Radius	R.T. R.T. Knucle Radius (b)	.S	Other Fas	tening (Description of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control o	Diameter  ibe or attach  signt  Impact  . of	skatch  ft-lb  ef
(t) If I4.	Design Safety Nozzle Purpos	Long Girth (a) He ottom; ile, bo press w to b Yalve s: (Int	H. H. H. H. Ticnkess slts used (state) sure2 to complete state	Crown Radius	R.T. R.T. Knucle Radius (b)	.S. Elliptical Ratio (c) i at	Other Fas	tening (Description of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control o	Diameter  ibe or attach  sight  Impact  o. of	skaten
(t) If I4.	Design Safety Nozzle Purpos	Long Girth (a) He ottom; ile, bo press w to b Yalve s: (Int	H. H. H. H. Ticnkess slts used (state) sure2 to complete state	Crown Radius	R.T. R.T. Knucle Radius (b)	.S. Elliptical Ratio (c) i at	Other Fas	tening (Description of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control o	Diameter  ibe or attach  sight  Impact  o. of	skaten
(t) If I4.	Design Safety Nozzle Purpos	Long Girth (a) He ottom; ile, bo press w to b Yalve s: (Int	H. H. H. H. Ticnkess slts used (state) sure2 to complete state	Crown Radius	R.T. R.T. Knucle Radius (b) os vessels	i at	Other Fas	tening (Description of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control o	Diameter  ibe or attach  sight  Impact  o. of	skaten
14. 15. 16.	Design Safety Nozzle Purpos	Long Girth (a) He attos, ile, bo pross w to t Valve s: o (Inl	Hitorial H.  Ticnkess  Sure <sup>2</sup> Sure <sup>2</sup> Outlets: Numboles,	Crown Radius  d for all	R.T. R.T. Knucle Radius (b) os vessels	i at	Other Fas	tening (Description of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control o	Diameter  ibe or attach  sight  Impact  o. of	skaten
14. 15. 16.	Design  Safety  Nozzle  Purpos  Gurlet	Long Girth (a) He attom, I le, bo press w to t Yalve a: (Inl , Orai	Haterial H.  Iterial H.  Iteri	Crown Radius  d for all	R.T. R.T. Knucle Radius (b) os vessels	.S. Elliptical Ratio (c) i at	Other Fas	tening (Descr: Drop Mr Charpy ef at tem	Diameter  ibe or attach  sight  Impact  o. of	skaten
14. 15. 16.	Design Safaty Nozzle Purpos Guilet	Long Girth (a) He attom, I le, bo press w to t Yalve a: (Inl , Orai	Hitorial H.  Ticnkess  Sure <sup>2</sup> Sure <sup>2</sup> Outlets: Numboles,	Crown Radius  d for all  Number	R.T. R.T. Knucle Radius (b) os vessels	i at	Other Fas	tening (Description of the continuation of the	Diameter  ibe or attach  sight  Impact  o. of	skaten
14. 15. 16.	Design Safaty Nozzle Purpos Guilet	Long Girth (a) He attom, I le, bo press w to t Yalve a: (Inl , Orai	Hanholes,	Crown Radius  d for all  Number	R.T. R.T. Knucle Radius (b) os vessels	i at	Other Fas	tening (Description of the continuation of the	Diameter  ibe or attach  sight  Impact  o. of	skatch  ft-lb  eF  Attached
14. (t If Its 15. 16.	Design  Safaty  Nozzla  Purpos  Guilat  Insoec	Long Girth (a) No ottom, ile, bo press w to b Valve s: (Inl o (Inl o, Orai	Hannoles, Threaded,	Crown Radius  d for all  Number	R.T. R.T. Knucle Radius (b) os vessels	i at	Other Fas	tening (Description of the continuation of the	Diameter  ibe or attach  sight  Impact  o. of	skaten
14. (t If It It It It It It It It It It It It It	Design  Safety  Nozzle  Purpos  Gunlet  Copening	Long Girth (a) He ottom; lie, bo promise Valve (Ini, Orai tion ga:	Handles, Threaded,	Crown Radius  if for all  Yumber  No. No.	R.T. R.T. Knucle Radius (b) os vessels Lugs	i at	Other Fas	tening (Description of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the par	Diameter  ibe or attach sight Impact o. of  Reinforcese Haterial	skatch  ft-lb  eF  Attached
14. (t If It It It It It It It It It It It It It	Design  Safety  Nozzle  Purpos  Gunlet  Copening	Long Girth (a) He ottom; lie, bo promise Valve (Ini, Orai tion ga:	Hanholes, Threaded, Shirt	Crown Radius  if for all  Yumber  No. No.	R.T. R.T. Knucle Radius (b) os vessels Lugs	i at	Other Fas	tening (Description of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the par	Diameter  ibe or attach sight Impact o. of  Reinforcese Haterial	skatch  ft-lb  eF  Attached
14. Its 15. 16. 17. 18. 1 !	Design Design Safety Nozzle Purpos Guelet Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Chance Ch	Long Girth (a) He ottom, Ile, bo press w to b Valve a: (Inl press o (Inl press o (Inl o (In	Hannoles, Handles, Threaded, Sara-Treated	Crown Radius  d for all  Number  No. No.	R.T. R.T. Knucle Radius (b)  vessels  Lugs (Nu	i at	Other Fan	tening (Description of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the particular of the par	Diameter  ibe or attach  right  Impact  o. of  Rainforcese  Hatorial  Attached	skatch  ft-lb  eF  Attached



## FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

 Owner: Washington Public Power Supply System Address: 3000 George Washington Way, Richland, WA Date: 5/19/90 Sheet: 1 of 1 Unit: WNP-2

- 2. Plant: WPPSS Nuclear Power Plant (WNP)
  - Address: Hanford, Benton County, WA
- 3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA
  - (b) Repair Organization P.O. No., Job No., etc.: WPPSS
- 4. Identification of System: Control Rod Drive (CRD)
- 5. (a) Applicable Construction Code ASME Section III: 1971 Edition with no Addenda, Code Case: None
  - (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition, Winter 1980 Addenda, Code Case: N-308
- 6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other LD.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
CT&F	GE GE	6399 A8518	N/A N/A	N/A N/A	1975 1987	Replacement Replacement	Yes, Class 1 Yes, Class 1
-	,						

#### 7. Description of Work:

- > Existing Control Rod Drive (CRD) Serial Number 6399, ASME Section III, Code Class 1, 1971 Edition with no Addenda
- > New replacement Cylinder Tube and Flange (CT&F) assembly Serial Number A8518, ASME Section III, Code Class 1, 1974 Edition with Winter 1975 Addenda
- > Disassembled CRD for overhaul. Performed PT examination on the CT&F assembly. PT examination results were evaluated to be unacceptable. Performed visual examination on the piston tube assembly. Visual examination results acceptable. Reassembled CRD parts and installed new replacement CT&F assembly.
- > Note: The entire CRD assembly is now identified by the new replacement CT&F serial number

û

48	XARRENUTION (	REFOR SCHELL
9	SUPPLY	SYSTEM

	FORM NIS-2 (Back)
8.	Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other X None Test Pressure: Psig Test Temperature: °F Component Design Pressure: Psig Temperature: °F
9.	Remarks: See attached N-2 Code Data Report for new replacement Cylinder Tube and Flange (CT&F) assembly Serial Number A8518
	· · · · · · · · · · · · · · · · · · ·
	CERTIFICATE OF COMPLIANCE
	We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.
	Type Code Symbol Stamp: Not applicable Certificate Authorization No.: Not applicable
	Expiration Date: Not Applicable
	Prepared by Rulaip Seigh Signed Plant Technical Manager
,	Date <u>5/19/90</u> Date <u>5-2/-90</u>
	CERTIFICATE OF INSERVICE INSPECTION
	I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 5/8/90 to 5/22/00 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.
	By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
	Law Logitude Commissions 9556 W
	Inspector's Signature  National Board, State, and Endorsements  Date 5/22/90

anufactured & Cartified by: GE Company, 2117 Castle Hayne Rd., Wilmington, N.C. 28402
(Name and Address of NPT Certificate Holder)  (Name and Address of N Certificate Holder for completed nuclear component)
. (Name and Address of N Certificate Holder for completed nuclear component)
dentification-Certificate Holders's S/N of Part: A8518 Nat'l Bd. No. N/A
anstructed According to Drawing No: 9190258G003 Dwg. Prepared by D. L. Peterson
Description of Part Inspected: CYLINDER TUBE & FLANGE MWR AS 2920
Applicable ASHE Code: Section III, Edition 1974, Addenda Date 75, Case No. 1361-2 Class 1
HWKY2: 200-8888801A O. COUCLOT WOO DELAG LOE ORG ALEU LESCEGE.
(Brief description of service for which component was designed) Hydrostatically tested at 1825 psi. min.
et 1 of 2
ertify that the statements-in this report are correct and this vessel part or appurtenance efined in the code conforms to the rules of construction of the ASME Code Section III. applicable Designed Specification and Stress Report are not the responsibility of the NPT ificate Holder for parts. An NPT Certification Holder for appurtenances is responsible furnishing a separate Design Specification and Stress Report if the appurtenance is not uded in the component Design Specification and Stress Report).  11/10, 19 87 Signed GE-NEBG-NF&CH-QA By
ificate Of Authorization Expires: 6/16/90 Certification of Authorization No.: NPT N-1151
CERTIFICATION OF DESIGN FOR APPURTENANCE
gn information on file at <u>GE COMPANY, SAN JOSE, CALIFORNIA</u>
lysis report on file at <u>GE COMPANY, SAN JOSE, CALIFORNIA</u> Rev. 0
gn Pacification certified by <u>BJORN HAABERG</u> Prof. Eng. State <u>CALIF.</u> Reg. No. <u>15570</u>
A6254 Rev. O. ss analysis report certified by <u>EDWARD YOSHIO</u> Prof. Eng. State <u>CALIF.</u> Reg. No. <u>HO18646</u>
X
CERTIFICATION OF SHOP INSPECTION
the undersigned, holding a valid commission by the National Board of Boiler and Pressure stors and/or the State or Province of NORTH CAROLINA and employed by DEPARTMENT OF LABOR STATE OF NORTH CAROLINA have inspected the part of a pressure vessel described in this il Data Report on
11-18, 1987 Ffonde NC.779-PAWE2L60 OHID National Board, State, Province and No.
mental sheets in form of lists, sketches or drawing may be used provided (1) size is X 11", (2) information in 1-2 on this Data Report is included on each sheet, and (3) neet is numbered and number of sheets is recorded in Item 3. "REHARKSs"

VERIFIED & ACCEPTED \_\_\_\_\_\_\_\_\_ C.I. In sining C (3

Nominal Corrosion  4. Shell: Haterial T.S. Thickness in Allowance in Dis. ft. in Length ft.
4. Shell: Haterial 1.5. Thickness in Allowance in Dis. ft. in Length ft. 5 (Kind & Spec.No) (Min.afRance Specified)
5. Seems: Long H.T.1 R.T. Efficiency
GIFTH HILL MWK AS 2920 No of Courses SIN A 8518
(Kind & Spec.No) (Hin. ofRange Specified)  5. Seems: Long H.T. R.T. Efficiency  Girth H.T. R.T. No. of Courses SIN A 8518  6. Heads: (a) Haterial T.S. (b) Haterial T.S. Felds
.Location (Top Crown Knuckle Elliptical Concial Hemispherical Flat Side to Prass.  Bottom, Ends) Thickness Radius Radius Ratio Apex. Angle Radius Diameter (conv.or conc.)
(4)
(b)
(Material, Spec.No., T.S. Size Number) (Describe or attach sketch).
7. Jacket Closure:
(Describe as ogen and weld, bar, etc. If bar give dimensions, if bolts, describe or shetch)  Orop Weight
8. Design Pressure. 4 1250 psi at 575 °F Charpy Impact ft-lb
at temp. of
Items 9 and 10 to be completed for tube sections.
9. Tube Sheets: Stationary Hat'l. Dia. Thickness in Attachment (Kind of Spec. No.) (Supjete Press.) (Welded, Solted)
(Kind of Spec. No.) (Stoj:to Press.) (Welded, Bolted) Floating. Haterial Dia. Thickness in Attachment
IG. Tubes: Material G.D. in. Thickness or gage. Number Type (Str. or U)
(Str. or U)
Items 11-14 incl. to be completed for inner chambers of jacketed vessels, or channels of heat exchangers  Nominal Corrosion .
11. Shell: HatorialT.SThickness _in. Allowance _in. Disftin _Longthftin.
(Kind&Spec.No.) (Min.ofRange Specified)
(value postilor) (value opiositor)
•
•
•
12. Seams: Long H.T. R.T. Efficiency S  Girth H.T. R.T. No. of Courses  13. Heads (a) Haterial T.S. (b) Material Fat Side to Press  Location Crown Knucle Elliptical Concial Hemispherical Fat Side to Press  (a) Too, Sottom, Tienkesm Radium Radium Ratio Apex Angle Radium Diameter (Conv.or Conc.)  End
12. Seams: Long H.T. R.T. Efficiency S  Girth H.T. R.T. No. of Courses  15. Heads (a) Haterial T.S. (b) Haterial T.S.  Location Crown Knucle Elliptical Concial Hemispherical Fat Side to Press  (a) Too, Sottom, Ticnkess Radius Radius Ratio Apex Angle Radius Diameter (Conv.or Conc.)  End  (b) Channel
12. Seams: Long H.T. R.T. Efficiency :  Girth H.T. R.T. No. of Courses  D. Heads (a) Haterial T.S. (b) Haterial Fat Side to Press  (a) Too, Sottom, Ticnkess Radius Radius Ratio Apex Angle Radius Diameter (Conv.or Conc.)  End  (b) Channel  If removable, bolts used (a) (b) (c) Other Fastening
12. Seams: Long H.T. R.T. Efficiency S  Girth H.T. R.T. No. of Courses  13. Heads (a) Haterial T.S. (b) Haterial T.S.  Location Crown Knucle Elliptical Concial Hemispherical Fat Side to Press  (a) Too, Sottom, Ticnkess Radius Radius Ratio Apex Angle Radius Diameter (Conv.or Conc.)  End  (b) Channel  If removable, bolts used (a) (b) (c) Other, Fastening  (Describe or attach sketch  Drop Weight
12. Seams: Long H.T. R.T. Efficiency S  Girth H.T. R.T. No. of Courses  13. Heads (a) Haterial T.S. (b) Haterial Fat Side to Press  Location Crown Knucle Elliptical Concial Hemispherical Fat Side to Press  (a) Too, Sottom, Ticnkess Radius Radius Ratio Apex Angle Radius Diameter (Conv.or Conc.)  End  (b) Channel  If removable, bolts used (a) (b) (c) Other, Fastening  (Describe or attach sketch  Drop Weight  Charpy Impact (t-1b)
12. Seams: Long H.T. R.T. Efficiency S  Girth H.T. R.T. No. of Courses  13. Heads (a) Haterial T.S. (b) Haterial T.S.  Location Crown Knucle Elliptical Concial Hemispherical Fat Side to Press  (a) Too, Sottom, Ticnkess Radius Radius Ratio Apex Angle Radius Diameter (Conv.or Conc.)  End  (b) Channel  If removable, bolts used (a) (b) (c) Other, Fastening  (Describe or attach sketch  Drop Weight,
12. Seams: Long H.T. R.T. Efficiency S  Girth H.T. R.T. No. of Courses  13. Heads (a) Haterial T.S. (b) Haterial Fat Side to Press  Location Crown Knucle Elliptical Concial Hemispherical Fat Side to Press  (a) Too, Sottom, Ticnkess Radius Radius Ratio Apex Angle Radius Diameter (Conv.or Conc.)  End  (b) Channel  If removable, bolts used (a) (b) (c) Other, Fastening  (Describe or attach sketch  Drop Weight  Charpy Impact (t-1b)
12. Seams: Long H.T. R.T. Efficiency S  Girth H.T. R.T. No. of Courses  13. Heads (a) Haterial T.S. (b) Haterial Fat Side to Press  Location Crown Knucle Elliptical Concial Hemispherical Fat Side to Press  (a) Too, Bottom, Ticnkess Radius Radius Ratio Apex Angle Radius Diameter (Conv.or Conc.)  End  (b) Channel  If removable, bolts used (a) (b) (c) Other, Fastening  (Describe or attach sketch  Drop Weight  Charpy Impact  Charpy Impact  It-lb
12. Seams: Long H.T. R.T. Efficiency S.  Girth H.T. R.T. No. of Courses  13. Heads (a) Haterial T.S. (b) Haterial T.S.  Location Crown Knucle Elliptical Concial Hemispherical Fat Side to Press  (a) Too, Sottom, Ticnkess Radius Radius Ratio Apex Angle Radius Diameter (Conv.or Conc.)  End  (b) Channel  If removable, bolts used (a) (b) (c) Other Fastening (Describe or attach sketch  Drop Weight Charpy Impact ft-lb  14. Design pressure pai at ff at temp. of ft-lb  Items below to be completed for all vessels where spolicable.
12. Seams: Long H.T. R.T. Efficiency S  Girth H.T. R.T. No. of Courses  13. Heads (a) Haterial T.S. (b) Haterial T.S.  Location Count Knucle Elliptical Concist Homispherical Fat Side to Press (a) Top, Sottom, Ticnkess Radius Radius Radius Radius Radius Diameter (Conv.or Conc.)  End  (b) Channel  If removable, bolts used (a) (b) (c) Other Fastening  (Describe or attach sketch Drop Weight Charpy Impact Ft-lb  14. Design pressure pai at Temp. of Tell  Items below to be completed for all vessels where scolicable.  15. Safety Valve Outlets: Number Size Location  Reinforcement
12. Seams: Long H.T. R.T. Efficiency S  Girth H.T. R.T. No. of Courses  13. Heads (a) Haterial T.S. (b) Haterial T.S.  Location Crown Knucle Elliptical Contial Hesispherical Fat Side to Press  (a) Too, 8 ottos, Ticnkess Radius Radius Ratio Apex Angle Radius Diameter (Conv.or Conc.)  End  (b) Channel  If removable, bolts used (a) (b) (c) Gither Fastening  (Describe or attach sketch Drop Weight Charpy Impact ft-lb  14. Design pressure pai at af at temp. of af  Items below to be completed for all vessels where spoilicable.  15. Safety Valve Gutlets: Number Size Location  16. Nozzles: Purpose (Inlet Attached Proposition Proposed Index Purpose (Inlet Attached Proposed Index Purpose (Inlet Attached Proposed Index Purpose (Inlet Attached Proposed Index Purpose (Inlet Attached Proposed Index Purpose (Inlet Attached Proposed Index Purpose (Inlet Attached Proposed Index Purpose (Inlet Attached Proposed Index Purpose (Inlet Attached Proposed Index Purpose (Inlet Attached Proposed Index Purpose (Inlet Attached Proposed Index Purpose (Inlet Attached Proposed Index Purpose (Inlet Attached Proposed Index Purpose (Inlet Attached Proposed Index Purpose (Inlet Attached Proposed Index Purpose (Inlet Purpose (Inlet Purpose (Inlet Purpose (Inlet Purpose (Inlet Purpose (Inlet Purpose (Inlet Purpose (Inlet Purpose (Inlet Purpose (Inlet Purpose (Inlet Purpose (Inlet Purpose (Inlet Purpose (Inlet Purpose (Inlet Purpose (Inlet Purpose (Inlet Purpose (Inlet Purpose (Inlet Purpose (Inlet Purpose (Inlet Purpose (Inlet Purpose (Inlet Purpose (Inlet Purpose (Inlet Purpose (Inlet Purpose (Inlet Purpose (Inlet Purpose (Inlet Purpose (Inlet Purpose (Inlet Purpose (Inlet Purpose (Inlet Purpose (Inlet Purpose (Inlet Purpose (Inlet Purpose (Inlet Purpose (Inlet Purpose (Inlet Purpose (Inlet Purpose (Inlet Purpose (Inlet Purpose (Inlet Purpose (Inlet Purpose (Inlet Purpose (Inlet Purpose (Inlet Purpose (Inlet Purpose (Inlet Purpose (Inlet Purpose (Inlet Purpose (Inlet Purpose (Inlet Purpose (Inlet Purpose (Inlet Purpose (Inlet Purpose (Inlet Purpos
12. Seamas: Long H.T. 1 R.T. Efficiency Substitution H.T. 1 R.T. Efficiency Substitution R.T. No. of Courses  13. Heads (a) Haterial T.S. (b) Haterial T.S. (coation Council Hemispherical Fat Side to Press (a) Too, Bottom, Ticnkess Radius Radius Ratio Apex Angle Radius Diameter (Conv.or Conc.) End (b) Channel  If removable, bolts used (a) (b) (c) Other Fastening (Describe or ettach sketch Drop Weight Charpy Impact ft-lb  14. Design pressure 2 pai at of at temp. of of afficiency  Sizs Location  15. Safety Valve Outlets: Number Sizs Location  16. Nozzles: Purpose (Inlet Radius Radius Radius Radius Radius Radius Diameter (Conv.or Conc.)  Reinforcement Outlet, Orain) Number Dia or Size Type Material Thickness Material Attached
12. Seams: Long H.T. R.T. Efficiency S  Girth H.T. R.T. No. of Courses  13. Heads (a) Haterial T.S. (b) Haterial T.S.  Location Crown Knucle Elliptical Concial Hemispherical Fat Side to Press  (a) Too, Sottom, Ticnkess Radius Radius Ratio Apex Angle Radius Diameter (Conv.or Conc.)  End  (b) Channel  If removable, boilts used (a) (b) (c) Gither Fastening (Describe or attach sketch  Drop Weight Charpy Lopact (ft-lb  14. Design pressure personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal person
12. Seams: Long H.T. 1 R.T. Efficiency 3  Girth H.T. 1 R.T. No. of Courses  15. Heads (a) Material T.S. (b)Material T.S.  Location Crown Knucle Elliptical Concial Hemispherical Fat Side to Press (a) Too, Sottom, Tienkess Radius Radius Ratio Apex Angle Radius Diameter (Conv. or Conc.)  End (b)Channel  If removable, bolts used (a) (b) (c) Other, Fastening (Describe or ettern sketch Drop Weight Charpy Impact ft-lb  14. Design pressure 2 psi at 4 F at temp. of 4F  Items below to be completed for all vessels where spoilicable.  15. Safety Valve Outlets: Number Size Location  16. Nozzles:  Purpose (Inlet April Number Dia or Size Type Material Thickness Material Attached Size Location Number Dia or Size Type Material Thickness Material Attached
12. Seams: Long H.T. R.T. Efficiency S  Girth H.T. R.T. No. of Courses  13. Heads (a) Haterial T.S. (b) Haterial T.S.  Location Crown Knucle Elliptical Concial Hemispherical Fat Side to Press  (a) Too, Sottom, Ticnkess Radius Radius Ratio Apex Angle Radius Diameter (Conv.or Conc.)  End  (b) Channel  If removable, boilts used (a) (b) (c) Gither Fastening (Describe or attach sketch  Drop Weight Charpy Lopact (ft-lb  14. Design pressure personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal personal person
12. Seamas Long H.T. R.T. Efficiency Substitution (a) Haterial T.S. (b) Material T.S. (b) Material T.S. (coation County Redius Radius Radius Radius Radius Radius Radius Diameter (Conv. or Conc.) End (b) Channel  If removable, bolts used (a) (b) (c) Other Fastening (Describe or attach sketch Drop Weight Charpy Impact (t-lb)  14. Design pressure psi at Part of at temp. of of the fastening Charpy Impact Charpy Impact Charpy Impact Charpy Impact Charpy Impact Charpy Impact Charpy Impact Charpy Impact Charpy Impact Charpy Impact Charpy Impact Charpy Impact Charpy Impact Charpy Impact Charpy Impact Charpy Impact Charpy Impact Charpy Impact Charpy Impact Charpy Impact Charpy Impact Charpy Impact Charpy Impact Charpy Impact Charpy Impact Charpy Impact Charpy Impact Charpy Impact Charpy Impact Charpy Impact Charpy Impact Charpy Impact Charpy Impact Charpy Impact Charpy Impact Charpy Impact Charpy Impact Charpy Impact Charpy Impact Charpy Impact Charpy Impact Charpy Impact Charpy Impact Charpy Impact Charpy Impact Conc.)  15. Safety Valve Quitlets: Number Size Impo Material Thickness Haterial Attached Charlet, Oranin Charlet, No. Size Location Location Charlet Charlet Charlet Charlet Charlet Charlet Charlet Charlet Charlet Charlet Charlet Charlet Charlet Charlet Charlet Charlet Charlet Charlet Charlet Charlet Charlet Charlet Charlet Charlet Charlet Charlet Charlet Charlet Charlet Charlet Charlet Charlet Charlet Charlet Charlet Charlet Charlet Charlet Charlet Charlet Charlet Charlet Charlet Charlet Charlet Charlet Charlet Charlet Charlet Charlet Charlet Charlet Charlet Charlet Charlet Charlet Charlet Charlet Charlet Charlet Charlet Charlet Charlet Charlet Charlet Charlet Charlet Charlet Charlet Charlet Charlet Charlet Charlet Charlet Charlet Charlet Charlet Charlet Charlet Charlet Charlet Charlet Charlet Charlet Charlet Charlet Charlet Charlet Charlet Charlet Charlet Charlet Charlet Charlet Charlet Charlet Charlet Charlet Charlet Charlet Charlet Charlet Charlet Charlet Charlet Charlet Charlet Charlet Charlet Charlet Charl

<sup>1 [</sup>f Postweld Hest-Treated.

2 List other internal or external pressure with conincident temperature when applicable.



## FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

1. Owner: Washington Public Power Supply System

Address: 3000 George Washington Way, Richland, WA

Date: 5/19/90 Sheet: 1 of 1 Unit: WNP-2

2. Plant: WPPSS Nuclear Power Plant (WNP)

Address: Hanford, Benton County, WA

- 3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA
  - (b) Repair Organization P.O. No., Job No., etc.: WPPSS
- 4. Identification of System: Control Rod Drive (CRD)
- 5. (a) Applicable Construction Code ASME Section III: 1971 Edition with no Addenda, Code Case: None
  - (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition, Winter 1980 Addenda, Code Case: N-308
- 6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
CRD CT&F	ge ge	6723 A8609	N/A N/A	N/A N/A	1975 1988	Replacement Replacement	Yes, Class 1 Yes, Class 1

#### 7. Description of Work:

- > Existing Control Rod Drive (CRD) Serial Number 6723, ASME Section III, Code Class 1, 1971 Edition with no Addenda
- > New replacement Cylinder Tube and Flange (CT&F) assembly Serial Number A8609, ASME Section III, Code Class 1, 1974 Edition with Winter 1975 Addenda
- > Disassembled CRD for overhaul. Performed PT examination on the CT&F assembly. PT examination results were evaluated to be unacceptable. Performed visual examination on the piston tube assembly. Visual examination results acceptable. Reassembled CRD parts and installed new replacement CT&F assembly.
- > Note: The entire CRD assembly is now identified by the new replacement CT&F serial number

2	AVEENILE ON S	Karon Scien
<b>6</b>	SUPPLY	SYSTEM

	FORM NIS-2 (Back)
8.	Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other X None Test Pressure: Psig Test Temperature: °F Component Design Pressure: Psig Temperature: °F
9.	Remarks: See attached N-2 Cox e Data Report for new replacement Cylinder Tube and Flange (CT&F) assembly Serial Number A8609
	CERTIFICATE OF COMPLIANCE
	We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.  Type Code Symbol Stamp: Not applicable  Certificate Authorization No.: Not applicable  Expiration Date: Not Applicable
	Prepared by Pulcup Lands Signed Plant Technical Manager
-	Date
_	CERTIFICATE OF INSERVICE INSPECTION ·
	I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period $5/1/90$ to $5/22/90$ and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.  By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
٠	Inspector's Signature Commissions 9556 W  National Board, State, and Endorsements
	Date 5/22/90

MWR. AS 2924

N.C. 723.PA.WC1766. OHIO

National Board, State, Province and No.

Quedis Euros FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPORTENANCES\* 5/19/90
As required by the Provision of the ASME Code Rules, Section III, Div. 1 1. Manufactured & Certified by: GE Company, 2117 Castle Hayne Rd., Wilmington, N.C. Name and Accress of NPT Certificate Bolder) RICHLAND, Wa. 99352 .(b) Manufactured for: Certificate Holder for completed nuclear component) (Name and Accress of N . Identification-Certificate Holders's S/N of Part: A8609 Nat'l Bd. No. N/A 919D258G003 (a) Constructed According to Drawing No: Dwg. Prepared by D. L. Peterson (b) Description of Part Inspected: CYLINDER TUBE & FLANGE (c) Applicable ASME Obde: Section III, Edition 1974, Addenda Date W'75 Case No. 1361-2 Class 1 REMARKS: Sub-assembly of Control Rod Drive for use with reactor. (Brief description of service for which component was designed) Hydrostatically tested at 1825 psi. min. \*Sneet 1 of 2 We certify that the statements in this report are correct and this vessel part or appurtenance as defined in the code conforms to the rules of construction of the ASME Code Section III. (The applicable Designed Specification and Stress Report are not the responsibility of the NPT Certificate Bolder for parts. An NPT Certification Holder for appurtenances is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is not included in the component Design Specification and Stress Report). DATE 5/27,19 88 Signed GE-NEEG-NF&CM-QA (NPT Cercuticate Boider) ficate Of Authorization Expires: 6/16/90 Certification of Authorization No.: NPT N-1151 CERTIFICATION OF DESIGN FOR APPERTMENTS Design information on file at GE COMPANY, SAN JOSE, CALIFORNIA Stress analysis report on file at GE COMPANY, SAN JOSE, CALIFORNIA DC22A6253 Rev. 0 Design specification certified by BJCRN HAAHERG Prof. Eng. State CALIF. Reg. No. 15570 DC22Ā6254 Rev. 0. Stress analysis report certified by EDWARD YOSHIO Prof. Eng. State CALIF. Reg. No. M018646 CRETEICATION OF SHOP INSPECTION I, the undersigned, holding a valid commission by the National Board of Boiler and Pressure Inspectors and/or the State or Province of NCRIH CAROLINA and employed by DEPARIMENT OF IABOR of STATE OF NCRIH CAROLINA have inspected the part of a pressure vessel described in this Partial Data Report on 5/27 19 %, and state that to the best of my knowledge and belief, the NPT Certificate Bolder has constructed this part in accordance with the ASME Code Section III.

lemental sheets in form of lists, sketches or drawing may be used provided (1) size is 2" X 11", (2) information in 1-2 on this Data Report is included on each sheet, and (3) sheet is numbered and number of sheets is recorded in Item 3. "REMARKSS"

Inspector's Signature

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the part described in the Partial Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damages or a loss of any kind-arising from or connected with this inspection.

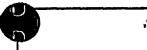
DATE

#### FORM N-2 (back)

5/N A 8609 Euldip Euros 11/21/88

	vessels, or shells of hest exchangers.
Nominal Corresion	In Din Sh in Landh Sh
4. Shell: Haterial T.S. Thickness in. Allowence (Kind & Sonc. No.) (Hin. ofRance Specified)	ur otareur. cangenretn.
(Kind & Spec.No) (Min.ofRange Specified)  5. Seass: Long N.T. R.T.	Efficiency
ctem utl ot a	No. of Courses
Girth H.T. <sup>1</sup> R.T. 6. Heade: (a) Material T.S. (b) Mater	ial T.S.
· •	
Location (Top Crown Knuckle Elliptical Concial Bottom, Ends) Thickness Radius Radius Ratio Apex Angl	Hemispherical Flat Side to Press. Le Radius Dismeter (conv.or conc.)
(a)	
	etening
If resovable, bolts usedOther fa: (Material, Spec.No., T.S. Size Number)	(Doscribe or strach sketch)
7. Jacket Closure:	
(Describe as ogen and wold, bar, atc. If bar give	dimensions, if bolts, describe or shetch)
8. Ossign Pressure 2 1250 psi at 575 %	dimensions, if bolts, describe or shetch)  Orop Weight Charpy Impact tt-lb at temp. of
	at temp. of
Items 9 and 10 to be completed for tube sections.	
G. Tuba Chester Stationery Matil	Thickness is attachment
9. Tube Sheets: Stationary Hat'l. Dia. (Kind of Spec. No.) (Subj.to P.	ress.) (Welded, Bolted)
Floating. Material Dia Ti	hicknessin. Attachment
inct	nes
10. Tubes: Hatorial 0.D. in. Thickness or	gage. Number Type
	(Str. ar V)
Items 11-14 incl. to be completed for inner chambers of jacksted	vessels, or channels of heat exchangers
Nominal Carrosian	
11. Shell: Material T.S. Thickness in Allowance in.	Dia. ft. in Length ft. in.
(Kind&Spec.No.) (Min.ofRange Specified)	
frammehouses (transmiss shows soo)	
•	
•	
•	
12. Sease: Long H.T. R.T. Efficiency  Girth H.T. R.T. No. of Cour  13. Heads (a) Material T.S. (b)  Location Crown Knucle Elliptical Concisi	rses
12. Seass: Long H.T. R.T. Efficiency  Girth H.T. R.T. No. of Cour  13. Heads (a) Material T.S. (b)  Location Crown Knucle Elliptical Concist  (a) Too, Bottom, Tienkess Radius Radius Ratio Apex Ang.	rses
12. Seass: Long H.T. R.T. Efficiency  Girth H.T. R.T. No. of Cour  13. Heads (a) Material T.S. (b)  Location Crown Knucle Elliptical Concist  (a) Too, Bottom, Ticnkess Radius Radius Ratio Apex Ang.  End	rses
12. Seass: Long H.T. R.T. Efficiency  Girth H.T. R.T. No. of Cour  13. Heads (a) Material T.S. (b)  Location Crown Knucle Elliptical Concist  (a) Top, Bottom, Tichkesm Radium Radium Ratio Apex Ang.  End  (b) Channel	raes
12. Seass: Long H.T. R.T. Efficiency  Girth H.T. R.T. No. of Cour  13. Heads (a) Material T.S. (b)  Location Crown Knucle Elliptical Concist  (a) Too, Bottom, Ticnkess Radius Radius Ratio Apex Ang.  End	raes    Haterial   T.S.     Hemispherical Fat Side to Press     Radium Diameter (Conv.or Conc.)
12. Seass: Long H.T. R.T. Efficiency  Girth H.T. R.T. No. of Cour  13. Heads (a) Material T.S. (b)  Location Crown Knucle Elliptical Concist  (a) Top, Bottom, Tichkesm Radium Radium Ratio Apex Ang.  End  (b) Channel	rees
12. Seass: Long H.T. R.T. Efficiency  Girth H.T. R.T. No. of Cour  13. Heads (a) Material T.S. (b)  Location Crown Knucle Elliptical Concist  (a) Top, Bottom, Tichkesm Radium Radium Ratio Apex Ang.  End  (b) Channel  If removable, bolts used (a) (b) (c) Other Face	rees
12. Seass: Long H.T. R.T. Efficiency  Girth H.T. R.T. No. of Cour  13. Heads (a) Material T.S. (b)  Location Crown Knucle Elliptical Concist  (a) Top, Bottom, Tichkesm Radium Radium Ratio Apex Ang.  End  (b) Channel	rees
12. Seass: Long H.T. R.T. Efficiency  Girth H.T. R.T. No. of Cour  13. Heads (a) Material T.S. (b)  Location Crown Knucle Elliptical Concist  (a) Top, Bottom, Tichkesm Radium Radium Ratio Apex Ang.  End  (b) Channel  If removable, bolts used (a) (b) (c) Other Face	raes
12. Seass: Long H.T. R.T. Efficiency  Girth H.T. R.T. No. of Cour  13. Heads (a) Material T.S. (b)  Location Crown Knucle Elliptical Concist  (a) Too, Bottom, Tichkeam Radium Radium Ratio Apex Ang.  End  (b) Channel  If removable, bolts used (a) (b) (c) Gther Face  14. Design pressure <sup>2</sup> psi at  Items below to be completed for all vessels where applicable.	raes  )Haterial f.S.  Homispherical Fat Side to Press le Radium Diameter (Conv.or Conc.)  stening  (Describe or attach sketch Drop Weight Charpy Impact ft-lb  *F at temp. of **
12. Seass: Long H.T. R.T. Efficiency  Girth H.T. R.T. No. of Cour  13. Heads (a) Material T.S. (b)  Location Crown Knucle Elliptical Concist  (a) Top. Bottom, Tichkesm Radium Radium Ratio Apex Ang.  End  (b) Channel  If removable, bolts used (a) (b) (c) Other Fau  14. Design pressure <sup>2</sup> pai at	raes
12. Seass: Long H.T. R.T. Efficiency  Girth H.T. R.T. No. of Cour  13. Heads (a) Material T.S. (b)  Location Crown Knucle Elliptical Concist  (a) Too, Bottom, Tichkeam Radium Radium Ratio Apex Ang.  End  (b) Channel  If removable, bolts used (a) (b) (c) Gther Face  14. Design pressure <sup>2</sup> psi at  Items below to be completed for all vessels where applicable.	raes  )Haterial f.S.  Homispherical Fat Side to Press le Radium Diameter (Conv.or Conc.)  stening  (Describe or attach sketch Drop Weight Charpy Impact ft-lb  *F at temp. of **
12. Seass: Long H.T. R.T. Efficiency  Girth H.T. R.T. No. of County  13. Heads (a) Material T.S. (b)  Location Crown Knucle Elliptical Concist  (a) Too, Bottom, Tichkeam Radium Radium Ratio Apex Ang.  End  (b) Channel  If removable, bolts used (a) (b) (c) Other Fact  14. Design pressure paint paint paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure part paint pressure paint pressure paint pressure paint pressure part paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint press	racs )Material T.S. Homispherical Fat Side to Press le Radium Diameter (Conv.or Conc.)  stening (Describe or attach sketch Drop Weight Charpy Impact ft-lb of at temp. of of
12. Seass: Long H.T. R.T. Efficiency  Girth H.T. R.T. No. of County  13. Heads (a) Material T.S. (b)  Location Crown Knucle Elliptical Concist  (a) Too, Bottom, Ticnkeam Radium Radium Ratio Apex Ang.  End  (b) Channel  If removable, bolts used (a) (b) (c) Other Fact  14. Design pressure part of all vessels where applicable.  15. Safety Valve Gutlets: Number Size  16. Nozzles:	raes    Haterial   T.S.     Homispherical Fat Side to Press   le Radium Dimmeter (Conv.or Conc.)   stening   (Describe or attach skatch     Drop Meight   Charpy Impact   ft-lb     "F at temp. of   "F     Location   Reinforcement
12. Seass: Long H.T. R.T. Efficiency  Girth H.T. R.T. No. of County  13. Heads (a) Material T.S. (b)  Location Crown Knucle Elliptical Concist  (a) Too, Bottom, Tichkeam Radium Radium Ratio Apex Ang.  End  (b) Channel  If removable, bolts used (a) (b) (c) Other Fact  14. Design pressure paint paint paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure part paint pressure paint pressure paint pressure paint pressure part paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint press	racs )Material T.S. Homispherical Fat Side to Press le Radium Diameter (Conv.or Conc.)  stening (Describe or attach sketch Drop Weight Charpy Impact ft-lb of at temp. of of
12. Seass: Long H.T. R.T. Efficiency  Girth H.T. R.T. No. of County  13. Heads (a) Material T.S. (b)  Location Crown Knucle Elliptical Concist  (a) Too, Bottom, Tichkeam Radium Radium Ratio Apex Ang.  End  (b) Channel  If removable, bolts used (a) (b) (c) Other Fact  14. Design pressure paint paint paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure part paint pressure paint pressure paint pressure paint pressure part paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint pressure paint press	raes    Haterial   T.S.     Homispherical Fat Side to Press   le Radium Dimmeter (Conv.or Conc.)   stening   (Describe or attach skatch     Drop Meight   Charpy Impact   ft-lb     "F at temp. of   "F     Location   Reinforcement
12. Seass: Long H.T. R.T. Efficiency  Girth H.T. R.T. No. of Cour  13. Heads (a) Material T.S. (b)  Location Crown Knucle Elliptical Concist  (a) Top, Bottom, Ticnkesm Radium Radium Ratio Apex Ang.  End  (b) Channel  If removable, boits used (a) (b) (c) Other Fac  14. Design pressure <sup>2</sup> pai at  Items below to be completed for all vessels where applicable.  15. Safety Valve Gutlets: Number Size  Purpose (Inlat Gutlet, Orain) Number Dia or Size Type Materia.	racs )Material T.S. Homispherical Fat Side to Press le Radium Diameter (Conv.or Conc.)  stening (Describe or attach sketch Drop Weight Charpy Impact ft-lb of at temp. of of
12. Seass: Long H.T. R.T. Efficiency  Girth H.T. R.T. No. of Cour  13. Heads (a) Material T.S. (b)  Location Crown Knucle Elliptical Concist  (a) Top, Bottom, Tichkesm Radium Radium Ratio Apex Ang.  End  (b) Channel  If removable, boits used (a) (b) (c) Other Fau  14. Design pressure pai at  15. Safety Valve Gutlets: Number Size  Purpose (Inlat Gutlet, Orain) Number Dia or Size Type Materia.  17. Inspection Manholes, No. Size  Coemings: Handles, No. Size  Coemings: Handles, No. Size	Stanforcement   Thickness   Attached   Location   Total   Thickness   Total
12. Seass: Long H.T. R.T. Efficiency  Girth H.T. R.T. No. of Cour  13. Heads (a) Material T.S. (b)  Location Crown Knucle Elliptical Concist  (a) Too, Bottom, Ticnkesm Radium Radium Ratio Apex Ang.  End  (b) Channel  If removable, boits used (a) (b) (c) Other Fac  14. Design pressure pai at  Items below to be completed for all vessels where applicable.  15. Safety Valve Gutlets: Number Size  Purpose (Inlat Gutlet, Orain) Number Dia or Size Type Materia.	Staning
12. Seass: Long H.T. 1 R.T. Efficiency Girth H.T. 1 R.T. No. of Cour  13. Heads (a) Material T.S. (b) Location Crown Knucle Elliptical Concist (a) Too, Bottom, Ticnkess Radius Radius Ratio Apex Ang. End (b) Channel  If removable, boits used (a) (b) (c) Gther Fac  14. Design pressure 2 psi at  Items below to be completed for all vessels where applicable.  15. Safety Valve Gutlets: Number Size Purpose (Inlet Gutlet, Orain) Number Dia or Size Type Materia  7.  17. Inspection Manholes, No. Size Commings: Handles, No. Size Threaded, No. Size Threaded, No. Size	raes   Haterial   T.S.     Hosispherical Fat Side to Press   Radius Dissetar (Conv.or Conc.)   Stending   (Describe or attach sketch     Drup Weight   Charpy Isoact   ft-lb     "F at temp. of   "F     Location     Reinforcement     Thickness   Haterial   Attached     Location     Location
12. Seass: Long H.T. R.T. Efficiency  Girth H.T. R.T. No. of Cour  13. Heads (a) Material T.S. (b)  Location Crown Knucle Elliptical Concist  (a) Top, Bottom, Tichkesm Radium Radium Ratio Apex Ang.  End  (b) Channel  If removable, boits used (a) (b) (c) Other Fau  14. Design pressure pai at  15. Safety Valve Gutlets: Number Size  Purpose (Inlat Gutlet, Orain) Number Dia or Size Type Materia.  17. Inspection Manholes, No. Size  Coemings: Handles, No. Size  Coemings: Handles, No. Size	raes   Haterial   T.S.     Hosispherical Fat Side to Press   Radius Diameter (Conv.or Conc.)   Stending   (Describe or attach sketch     Drup Weight   Charpy Impact   ft-lb     "F at temp. of   "F     Location     Reinforcement   Attached     Location     Location

 $<sup>^{2}</sup>$  List other internal or external pressure with conincident temperature when applicable.





## FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

 Owner: Washington Public Power Supply System Address: 3000 George Washington Way, Richland, WA Date: 5/19/90 Sheet: 1 of 1 Unit: WNP-2

2. Plant: WPPSS Nuclear Power Plant (WNP)

Address: Hanford, Benton County, WA

- 3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA
  - (b) Repair Organization P.O. No., Job No., etc.: WPPSS
- 4. Identification of System: Control Rod Drive (CRD)
- 5. (a) Applicable Construction Code ASME Section III: 1971 Edition with no Addenda, Code Case: None
  - (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition, Winter 1980 Addenda, Code Case: N-308
- 6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
CRD CT&F	ge ge	7120 A8508	N/A N/A	N/A N/A	1974 1987	Replacement Replacement	Yes, Class 1 Yes, Class 1

#### 7. Description of Work:

- > Existing Control Rod Drive (CRD) Serial Number 7120, ASME Section III, Code Class 1, 1971 Edition with no Addenda
- > New replacement Cylinder Tube and Flange (CT&F) assembly Serial Number A8503, ASME Section III, Code Class 1, 1974 Edition with Winter 1975 Addenda
- > Disassembled CRD for overhaul. Performed PT examination on the CT&F assembly. PT examination results were evaluated to be unacceptable. Performed visual examination on the piston tube assembly. Visual examination results acceptable. Reassembled CRD parts and installed new replacement CT&F assembly.
- > Note: The entire CRD assembly is now identified by the new replacement CT&F serial number

	XYZERALION !	Marco Schart
40.3	SUPPLY	CVCTTCV
W.	BUFFLA	SISTEM

FORM NIS-2 (Back)
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other X No Test Pressure: Psig Test Temperature: °F  Component Design Pressure: Psig Temperature: °F
9. Remarks: See attached N-2 Code Data Report for new replacement Cylinder Tube and Flange (CT&F) assignibly Serial Number A8508
•
CERTIFICATE OF COMPLIANCE
We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.  Type Code Symbol Stamp: Not applicable Certificate Authorization No.: Not applicable Expiration Date: Not Applicable
Prepared by Culcup Suid Signed Plant Technical Manager
Date <u>5/19/90</u> Date <u>5-21-90</u>
CERTIFICATE OF INSERVICE INSPECTION
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 5/7/90 to 5/22/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.  By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.  Commissions  9555 W  National Board, State, and Endorsements
Date <u>5/22/90</u>

As required by the Provision of	the ASHE Code Rules, Section III, Div. I'
La Handfactured & Certified by: GE Company, 211	7 Castle Havne Rd., Wilmington, N.C. 28402
(b) Henufactured & Certified by: GE Company, 21)  (b) Henufactured for: MNP-2	and vootess of whi ferctifests wolder)
(Name and Address of N Cort	ificate Holder for completed nuclear component)
ntification-Certificate Holders's 5/N of E	ert: A8508. Hat'l Bd. No. N/A
(a) Constructed According to Drawing No:	190258G003 Dwg. Prepared by D. L. Peterson
(b) Description of Part Inspected: CY	LINDER TUBE & FLANGE
(c) Applicable ASHE Code: Section III, Edition	1974 ,Addenda Date W'75 , Case No. 1361-2 Class 1
REMARKS: Sub-essembly of Control Rad Drive for (Brief description of service Hydrostatically tested at 1825 psi.	e for which component was designed)
*Sheet 1 of 2	LINE AS 2925
	Ellar Euge
We certify that the statements—in this report a as defined in the code conforms to the rules	
(The applicable Designed Specification and Stre	ss Report are not the responsibility of the NPT
Certificate Holder for parts. An NPT Certific for Turnishing a separate Design Specification	
included in the component Design Specification	and Strees Report).
PATE: 11/10, 19 87 Signed GE-NI (NPT Cer	BG-NF&CH-QA By C. Ettoudining
(NPT Cer	ificate Holder)
Certificate Of Authorization Expires: 6/16/90	Certification of Authorization No.: NPT N-1151
CERTIFICATION OF D	SIGN FOR APPURTENANCE
Description on file at GE COMPANY.	SAN JOSES CALIFORNIA . T
reso analysis report on file at <u>GE COMPANY</u> , DC22A'6253 Rev. O	SAN JOSE CALIFORNIA "
Design specification certified by <u>BJORN HAABE</u> OC22A6254 Rev. O.	
Stress analysis report certified by EDWARD YOS	HIQ Prof. Eng. State <u>CALIF</u> . Reg. No. <u>H018646</u>
CERTIFICATION	OF SHOP INSPECTION
I, the undersigned, holding a valid commission ispectors and/or the State or Province of NORTH  STATE OF NORTH CAROLINA have inspected to the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state	by the National Board of Boiler and Pressure CAROLINA and employed by DEPARTMENT OF LABOR part of a pressure vessel described in this , and state that to the best of my knowledge
I, the undersigned, holding a valid commission ispectors and/or the State or Province of NORTH  STATE OF NORTH CAROLINA have inspected the stall Data Report on //-/O 198/or belief, the NPT Certificate Holder has cone de Section III.  By signing this certificate, neither the Inspector or implied, concerning the part description of the Inspector or his employer shall be property damages or a loss of any kind ariano.	by the National Board of Boiler and Pressure CAROLINA and employed by DEPARTMENT OF LABOR part of a pressure vessel described in this , and state that to the best of my knowledge cructed this part in accordance with the ASHE pector nor his employer makes any warranty, and in the Partial Data Report. Furthermore, liable in any manner for any personal injury
I, the undersigned, holding a valid commission ispectors and/or the State or Province of NORTH  STATE OF NORTH CAROLINA have inspected the stall Data Report on //-/O 198/or belief, the NPT Certificate Holder has cone de Section III.  By signing this certificate, neither the Inspected or implied, concerning the part description of the Inspector nor his employer shall be property damages or a loss of any kind arising the property damages or a loss of any kind arising the property damages or a loss of any kind arising the property damages or a loss of any kind arising the property damages or a loss of any kind arising the property damages or a loss of any kind arising the property damages or a loss of any kind arising the property damages or a loss of any kind arising the property damages or a loss of any kind arising the property damages or a loss of any kind arising the property damages or a loss of any kind arising the property damages or a loss of any kind arising the property damages or a loss of any kind arising the property damages or a loss of any kind arising the property damages or a loss of any kind arising the property damages or a loss of any kind arising the property damages or a loss of any kind arising the property damages or a loss of any kind arising the property damages or a loss of any kind arising the property damages or a loss of any kind arising the property damages or a loss of any kind arising the property damages or a loss of any kind arising the property damages or a loss of any kind arising the property damages or a loss of any kind arising the property damages or a loss of any kind arising the property damages or a loss of any kind arising the property damages or a loss of any kind arising the property damages or a loss of any kind arising the property damages or a loss of any kind arising the property damages or a loss of any kind arising the property damages or a loss of any kind arising the property damages or a loss of any kind arising the property damages or a loss of any kind ari	by the National Board of Boiler and Pressure CAROLINA and employed by DEPARTMENT OF LABOR part of a pressure vessel described in this , and state that to the best of my knowledge cructed this part in accordance with the ASME pector nor his employer makes any warranty, and in the Partial Data Report. Furthermore, liable in any manner for any personal injury from or connected with this inspection.  MCTT9. PA.WC2LGO OHIO
I, the undersigned, holding a valid commission ispectors and/or the State or Province of NORTH  STATE OF NORTH CAROLINA have inspected the stall Data Report on //-/O 198/or belief, the NPT Certificate Holder has cone de Section III.  By signing this certificate, neither the Inspector or implied, concerning the part description of the Inspector nor his employer shall be property damages or a loss of any kind ariano.	by the National Board of Boiler and Pressure CAROLINA and employed by DEPARIMENT OF LABOR part of a pressure vessel described in this , and state that to the best of my knowledge cructed this part in accordance with the ASHE pector nor his employer makes any warranty, and in the Partial Data Report. Furthermore, liable in any manner for any personal injury of from or connected with this inspection.
I, the undersigned, holding a valid commission ispectors and/or the State or Province of NORTH  STATE OF NORTH CAROLINA have inspected the stall Data Report on //-/O 198/or belief, the NPT Certificate Holder has cone ide Section III.  By signing this certificate, neither the Inspected or implied, concerning the part description of the Inspector nor his employer shall be property damages or a loss of any kind arising the property damages or a loss of any kind arising the property damages or a loss of any kind arising the property damages or a loss of any kind arising the property damages or a loss of any kind arising the property damages or a loss of any kind arising the property damages or a loss of any kind arising the property damages or a loss of any kind arising the property damages or a loss of any kind arising the property damages or a loss of any kind arising the property damages or a loss of any kind arising the property damages or a loss of any kind arising the property damages or a loss of any kind arising the property damages or a loss of any kind arising the property damages or a loss of any kind arising the property damages or a loss of any kind arising the property damages or a loss of any kind arising the property damages or a loss of any kind arising the property damages or a loss of any kind arising the property damages or a loss of any kind arising the property damages or a loss of any kind arising the property damages or a loss of any kind arising the property damages or a loss of any kind arising the property damages or a loss of any kind arising the property damages or a loss of any kind arising the property damages or a loss of any kind arising the property damages or a loss of any kind arising the property damages or a loss of any kind arising the property damages or a loss of any kind arising the property damages or a loss of any kind arising the property damages or a loss of any kind arising the property damages or a loss of any kind arising the property damages or a loss of any kind ar	by the National Board of Boiler and Pressure CAROLINA and employed by DEPARTMENT OF LABOR part of a pressure vessel described in this and state that to the best of my knowledge ructed this part in accordance with the ASME ector nor his employer makes any warranty, and in the Partial Data Report. Furthermore, liable in any manner for any personal injury from or connected with this inspection.  Mational Board, State, Province and No.  Or drawing may be used provided (1) size is a Report is included on each sheet, and (3)

VERIFIED & ACCEPTED AND MARKET

		****		42 1033042	· Jackson .		. * * * * * * * * * * * * * * * * * * *	
		N	cainal	Corr	08100			exchange 40
4. Shell: Mater	ial T.S	. 1	hickness	in. Alla	wanica in	Oia. ft.	in. Length	, et
	(King & 20ec	"NO ) (WI	n ar Hance	Specified	)			- 1
5. Seems: Long_		н.т.	1	7.8	•	Efficiency	,	<u>.</u> . /
Girth		H.T.	1 MWR	AS ZAIT	57.	No. of Cau	ITSER SIN	A8506 \
6. Heads: (a) H	atorial		T.S.	***	(b)Hateria	ī ī.	S.	-/ · · · /
			-			~ <del>~~~</del> , `		the day of
Location (Top	•	Crown	Knuckle	Elliptical	Concist	Hemispherical	Flet	Side to Press.
Bottom, Ends)	Thickness	Radius	Radius	Ratio	Apex Angle	-Radius	Dispotor	(conv.or conc.)
(a)						-		, , , , , , , , , , , , , , , , , , , ,
(b)								
If removable,	bolts used				Other fast	ening	***************************************	******************************
·	(Hatorial	,Spac .No	., T.S. S	ize Number	5	ening (Describe	or attach	sketch) .
7. Jacket Closu								
•	(Describe a	s ogen a	nd weld,b	er, atc. If	ber give d	imensions, if	bolta, desc	ribe or shotch
,	_	•				Orop Weig	jht	<u></u>
8. Design Press	pure <sup>2</sup> 125	0	pai	at57	5 of	Charpy In	pect	rt-1b
•	*	•		•	<del></del>	at temp.	of	er
Items 9 and 10 t	<u>Selomos ed as</u>	ed for t	ube secti	ona.				
9. Tube Sheets:	Stationary	Hat'1		Ois.		Thickness	_in. Attach	ment
		(Ki	nd of Spe	c. No.) (	Suoj.to Pre	38.)	()	(elded. Solted)
F	losting. Hat	erial		0ia	Thi	cknessin.	Attachment	
10. Tubes: Heter					incha	3 ,		•
10. Tubes: Meter	iel	a.o	•in •	. Thickness	or ga	go. Number	Type	· · · · · · · · · · · · · · · · · · ·
							. (9	Str. or U)
Items 11-14 incl						essels, or chi	innels of he	est exchangers
		· Non	inal	Corros	rou			
11. Shell: Hater	121	m	ckuesa	in. Allows	nce in D	ita Pr. fo	i čenath	ft. in.
(X11	MASON NO. 1							
	-capa 1101 /	(11111)	Range Spa	ecified)				
				ecified)	•			1
				ecified)	•			ч
12. Seams: Long Girth	н.т т.н	1	R.T.	ecified) E	fficiency_ o. of Cours	43	;	ч
12. Seams: Long Girth	н.т т.н	1	R.T.	ecified) E	fficiency_ o. of Cours	43	;	ч
12. Scams: Long Girth 13. Heads (a) Hi Location	H.T etorial	Czown	R.T. R.T. Knucle	ecified)  S. Elliptical	fficiency_ d. of Cours (b)M Concial	es aterial Hemispherica	T	.S
12. Seams: Long Girth 13. Heads (a) He Location (a) Top, Setton	H.T etorial	Czown	R.T. R.T. Knucle	ecified)  S. Elliptical	fficiency_ d. of Cours (b)M Concial	es aterial Hemispherica	T	ч
12. Seams: Long Girth 13. Heads (a) Hi Location (a) Top, Satton End	H.T etorial	Czown	R.T. R.T. Knucle	ecified)  S. Elliptical	fficiency_ d. of Cours (b)M Concial	es aterial Hemispherica	T	.S
12. Seams: Long Girth 13. Heads (a) He Location (a) Top, Settom End (b) Channel	H.T H.T atorial , Ticnkess	Crown Radius	R.T. R.T. T. Knucle Redius	Elliptical Ratio	of Cours (b)M Concial Apex Angle	es aterial Hemispherics Radius	T	.S
12. Seams: Long Girth 13. Heads (a) Hi Location (a) Top, Satton End	H.T H.T atorial , Ticnkess	Crown Radius	R.T. R.T. T. Knucle Redius	Elliptical Ratio	of Cours (b)M Concial Apex Angle	es_ eterial_ Hemispherics Radius ening	I Fat Diameter	.S. Side to Press (Canv.or Canc.)
12. Seams: Long Girth 13. Heads (a) He Location (a) Top, Settom End (b) Channel	H.T H.T atorial , Ticnkess	Crown Radius	R.T. R.T. T. Knucle Redius	Elliptical Ratio	of Cours (b)M Concial Apex Angle	es	I Fat Diameter	.S. Side to Press (Canv.or Canc.)
12. Seams: Long Girth 13. Heads (a) He Location (a) Top, Settom End (b) Channel	H.T H.T atorial , Ticnkess	Crown Radius	R.T. R.T. T. Knucle Redius	Elliptical Ratio	of Cours (b)M Concial Apex Angle	es	I Fat Diameter or attach	.S. Side to Press (Canv.or Canc.)
I2. Seams: Long Girth I3. Heads (a) He Location (a) Top, Bottom End (b) Channel If removable, bo	H.T H.T aterial , Ticnkess 	Crown Radius	R.T. R.T. Y. Knucle Radius	Elliptical Ratio (c)	of Cours (b)M Concial Apex Angle	es	I Fat Diameter or attach	.S. Side to Press (Conv.or Conc.) sketch
I2. Seams: Long Girth I3. Heads (a) He Location (a) Top, Bettom End (b) Channel	H.T H.T aterial , Ticnkess 	Crown Radius	R.T. R.T. Y. Knucle Radius	Elliptical Ratio	of Cours (b)M Concial Apex Angle	es	I Fat Diameter or attach	.S. Side to Press (Canv.or Canc.)
I2. Seams: Long Girth I3. Heads (a) He Location (a) Top, Satton End (b) Channel If removable, bo	H.T H.T aterial , Ticnkess plts used (a)	Crown Radius	R.T. R.T. Knucle Radius (b)	SN SN Ratio(c)	of Cours (b)M Concial Apex Angle	es	I Fat Diameter or attach	.S. Side to Press (Conv.or Conc.) sketch
12. Seams: Long Girth 13. Heads (a) He Location (a) Top, Setton End (b) Channel If removable, bo	H.T H.T aterial , Ticnkess plts used (a)	Crown Radius	R.T. R.T. Knucle Radius (b)	SN SN Ratio(c)	of Cours (b)M Concial Apex Angle	es	I Fat Diameter or attach	Side to Press (Conv.or Conc.) sketch ft-1b
IZ. Seams: Long Girth IJ. Heads (a) He Location (a) Top, Settom End (b) Channel If removable, bo	H.T H.T aterial , Ticnkess pits used (a) sure <sup>2</sup>	Crown Radius	R.T. R.T.  Knucle Radius  (b)  psi	S. Elliptical Ratio (c)	Concial Apex Angle	es_ aterial_ Hemispherics Radius  ening_ (Describe Drop Weic Charpy In	I Fat Diameter or attach	.S. Side to Press (Conv.or Conc.) sketch
IZ. Seams: Long Girth IJ. Heads (a) He Location (a) Top, Satton End (b) Channel If removable, bo	H.T H.T aterial , Ticnkess pits used (a) sure <sup>2</sup>	Crown Radius	R.T. R.T.  Knucle Radius  (b)  psi	S. Elliptical Ratio (c)	Concial Apex Angle	es	I Fat Diameter or attach	Side to Press (Conv.or Conc.) sketch ft-1b
IZ. Seams: Long Girth IJ. Heads (a) He Location (a) Top, Satton End (b) Channel If removable, bo  14. Design press Items below to 1	H.T H.T aterial , Ticnkess pits used (a) sure <sup>2</sup>	Crown Radius	R.T. R.T.  Knucle Radius  (b)  psi	S. Elliptical Ratio (c)	Concial Apex Angle	es_ aterial_ Hemispherics Radius  ening_ (Describe Drop Weic Charpy In	I Fat Diameter or attach	Side to Press (Conv.or Conc.) sketch ft-1b
IZ. Seams: Long Girth IJ. Heads (a) He Location (a) Top, Satton End (b) Channel If removable, bo  14. Design press Items below to 1  15. Safety Valve 16. Nozzles:	H.T H.T aterial , Ticnkess plts used (a) sure <sup>2</sup> he completed a Gutlets: No	Crown Radius	R.T. R.T.  Knucle Radius  (b)  psi	S. Elliptical Ratio (c)	Concial Apex Angle	es aterial Hemispherics Radius ening (Describe Drop Weig Charpy In	Tal Fat Diameter or attach	S. Side to Press (Conv.or Conc.)  sketch  ft-lb
IZ. Seams: Long Girth IJ. Heads (a) He Location (a) Top, Satton End (b) Channel If removable, bo  14. Design press Items below to 1  15. Safety Valve 16. Nozzles: Purpose (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (In	H.T H.T aterial , Ticnkess plts used (a) sure <sup>2</sup> he completed a Gutlets: No	Crown Radius  for all	R.T. R.T. T. Knucle Radius (b)	S. Elliptical Ratio (c) st	Concial Apex Angle Other Fast	es aterial Hemispherics Radius ening (Describe Drop Weig Charpy In	Tal Fat Diameter or attach pact of Reinforcemen	SSide to Press (Conv.or Conc.) sketch ft-lb
IZ. Seams: Long Girth IJ. Heads (a) He Location (a) Top, Satton End (b) Channel If removable, bo  14. Design press Items below to 1  15. Safety Valve 16. Nozzles:	H.T H.T aterial , Ticnkess plts used (a) sure <sup>2</sup> he completed a Gutlets: No	Crown Radius  for all	R.T. R.T.  Knucle Radius  (b)  psi	S. Elliptical Ratio (c) st	Concial Apex Angle Other Fast	es aterial Hemispherics Radius ening (Describe Drop Weig Charpy In	Tal Fat Diameter or attach pact of Reinforcemen	S. Side to Press (Conv.or Conc.)  sketch  ft-lb
IZ. Seams: Long Girth IJ. Heads (a) He Location (a) Top, Satton End (b) Channel If removable, bo  14. Design press Items below to 1  15. Safety Valve 16. Nozzles: Purpose (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (In	H.T H.T aterial , Ticnkess plts used (a) sure <sup>2</sup> he completed a Gutlets: No	Crown Radius  for all	R.T. R.T. T. Knucle Radius (b)	S. Elliptical Ratio (c) st	Concial Apex Angle Other Fast	es aterial Hemispherics Radius ening (Describe Drop Weig Charpy In	Tal Fat Diameter or attach pact of Reinforcemen	SSide to Press (Conv.or Conc.) sketch ft-lb
IZ. Seams: Long Girth IJ. Heads (a) He Location (a) Top, Satton End (b) Channel If removable, bo  14. Design press Items below to 1  15. Safety Valve 16. Nozzles: Purpose (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (In	H.T H.T aterial , Ticnkess plts used (a) sure <sup>2</sup> he completed a Gutlets: No	Crown Radius  for all	R.T. R.T. T. Knucle Radius (b)	S. Elliptical Ratio (c) st	Concial Apex Angle Other Fast	es aterial Hemispherics Radius ening (Describe Drop Weig Charpy In	Tal Fat Diameter or attach pact of Reinforcemen	SSide to Press (Conv.or Conc.) sketch ft-lb
Girth  13. Heads (a) He Location (a) Top, Settors End (b) Channel If removable, be  14. Design press  Items below to 1  15. Safety Valve 16. Nozzles: Purpose (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Int	H.T H.T H.T aterial , Ticnkess plts used (a) sure <sup>2</sup> he completed e Gutlets: Nu lat in) Numb	Crown Radius  for all  mber	R.TR.TT	S. Elliptical Ratio (c) Size	Concial Apex Angle Other Fast	es aterial Hemispherics Radius  ening (Describe Drop Weig Charpy In ef at temp.  Location	Tal Fat Diameter or attach pact of Reinforcement	SSide to Press (Conv.or Conc.) sketch ft-1b er
Girth  13. Heads (a) He Location (a) Top, Setton End (b) Channel If removable, be  14. Design press  Items below to 1  15. Safety Yalve 16. Nozzles: Purpose (In. Gutlet, Ora	H.T H.T H.T aterial , Ticnkess plts used (a) sure <sup>2</sup> the completed the Gutlets: Nu let in) Numb	Crown Radius  for all  mber  do.	R.TR.TT	S. Elliptical Ratio  (c) Size Type	Concial Apex Angle Other Fast	es aterial Hemispherics Radius ening (Describe Drop Weig Charpy In ef at temp.  Location  Thickness	Tal Fat Diameter or attach ont opact of Reinforcemen Material	Side to Press (Conv.or Conc.)  sketch  ft-lb  of  Attached
Girth  13. Heads (a) He Location (a) Top, Settors End (b) Channel If removable, be  14. Design press  Items below to 1  15. Safety Valve 16. Nozzles: Purpose (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Interpress (Int	H.T H.T H.T aterial , Ticnkess plts used (a) sure <sup>2</sup> the completed the Gutlets: Nu lat in) Numb Manholes, No	Crown Radius  for all  mber  los.	R.TR.TT	S. Elliptical Ratio  (c) Size Type	Concial Apex Angle Other Fast	es aterial Hemispherics Radius  ening (Describe Drop Weic Charpy In ef at temp.  Location  Thickness	Tal Fat Diameter or attach ont opact of Reinforcemen Material	SSide to Press (Conv.or Conc.) sketch ft-1b er
Girth  13. Heads (a) He Location (a) Top, Setton End (b) Channel If removable, be  14. Design press  Items below to 1  15. Safety Yalve 16. Nozzles: Purpose (In. Gutlet, Ora	H.T H.T H.T aterial , Ticnkess plts used (a) sure <sup>2</sup> the completed the Gutlets: Nu let in) Numb	Crown Radius  for all  mber  los.	R.TR.TT	S. Elliptical Ratio  (c) Size Type	Concial Apex Angle Other Fast	es aterial Hemispherics Radius ening (Describe Drop Weig Charpy In ef at temp.  Location  Thickness	Tal Fat Diameter or attach ont opact of Reinforcemen Material	Side to Press (Conv.or Conc.)  sketch  ft-lb  of  Attached
Girth  13. Heads (a) He Location (a) Top, Setton End (b) Channel If removable, be  14. Design press  Items below to i  15. Safety Valve 16. Nozzles: Purpose (In: Outlet, Ora  17. Inspection Openings:	H.T H.T H.T H.T  aterial  , Ticnkess  plts used (a)  sure <sup>2</sup> be completed  e Gutlets: Nu  lat  in) Numt  Manholes, N  Handles, N  Threaded, N	Crown Radius  for all  mber  los.	R.TR.TT. Knucle Radius (b)psi vessels v	S. Elliptical Ratio  (c)  (at	Concial Apex Angle Other Fast	es aterial Hemispherics Radius  ening (Describe Drop Weig Charpy In ef at temp.  Location  Thickness	Tal Fat Diameter or attach pht pact of Reinforcemen Hatorial	Side to Press (Conv.or Conc.)  sketch  ft-lb  of  Attached
Girth  13. Heads (a) He Location (a) Top, Setton End (b) Channel If removable, be  14. Design press  Items below to 1  15. Safety Yalve 16. Nozzles: Purpose (In. Gutlet, Ora	H.T H.T H.T aterial , Ticnkess plts used (a) sure <sup>2</sup> the completed to Gutlets: Nu let in) Numb Hanholes, No Handles, No Threaded, No	for all	R.TR.T	S. Elliptical Ratio  (c) Size Type Size Size Lee	Concial Apex Angle Other Fast	es aterial Hemisoherics Radius  ening (Describe Drop Weic Charpy In ef at temp.  Location  Thickness  .ccation .ccation .ccation .ccation	Tal Fat Diameter of or attach opact of Reinforcement Material	Side to Press (Conv.or Conc.) sketch ft-lbef
Girth  13. Heads (a) He Location (a) Top, Setton End (b) Channel If removable, be  14. Design press  Items below to i  15. Safety Valve  16. Nozzles: Purpose (In: Qutlet, Ora  17. Inspection Openings:	H.T H.T H.T H.T  aterial  , Ticnkess  plts used (a)  sure <sup>2</sup> be completed  e Gutlets: Nu  lat  in) Numt  Manholes, N  Handles, N  Threaded, N	for all	R.TR.T	S. Elliptical Ratio  (c)  (at	Concial Apex Angle Other Fast	es aterial Hemisoherics Radius  ening (Describe Drop Weic Charpy In ef at temp.  Location  Thickness  .ccation .ccation .ccation .ccation	Tal Fat Diameter of or attach opact of Reinforcement Material	Side to Press (Conv.or Conc.)  sketch  ft-lb  of  Attached

<sup>1</sup> If Postweld Heat-Treated.

2 List other internal or external pressure with conincident temperature when applicable.

#### FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

1. Owner: Washington Public Power Supply System Address: 3000 George Washington Way, Richland, WA Date: 5/19/90

2. Plant: WPPSS Nuclear Power Plant (WNP)

Sheet: 1 of 1

Unit: WNP-2

Address: Hanford, Benton County, WA

- 3.(a) Work Performed by: WPP53, 3000 George Washington Way, Richland, WA
  - (b) Repair Organization P.O. No., Job No., etc.: WPPSS
- 4. Identification of System: Control Rod Drive (CRD)
- 5. (a) Applicable Construction Code ASME Section III: 1971 Edition with no Addenda, Code Case: None
  - (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition, Winter 1980 Addenda, Code Case: N-308
- 6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
CRD	GE	6701	N/A	N/A	1975	Replacement	Yes, Class 1
CT&F	GE	A8577	N/A	N/A	1988	Replacement	Yes, Class 1

#### 7. Description of Work:

- > Existing Control Rod Drive (CRD) Serial Number 6701, ASME Section III, Code Class 1, 1971 Edition with no Addenda
- > New replacement Cylinder Tube and Flange (CT&F) assembly Serial Number A8577, ASME Section III, Code Class 1, 1974 Edition with Winter 1975 Addenda
- > Disassembled CRD for overhaul, Performed PT examination on the CT&F assembly, PT examination results were evaluated to be unacceptable. Performed visual examination on the piston tube assembly. Visual examination results acceptable. Reassembled CRD parts and installed new replacement CT&F assembly.
- > Note: The entire CRD assembly is now identified by the new replacement CT&F serial number

1	XAREHUESH S	AND END END END
	SUPPLY	SYSTEM

	FORM NIS-2 (Back)
8.	Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other X Non Test Pressure: Psig Test Temperature: °F Component Design Pressure: Psig Temperature: °F
9.	Remarks: See attached N-2 Code Data Report for new replacement Cylinder Tube and Flange (CT&F) assembly Serial Number A8577
	•
	CERTIFICATE OF COMPLIANCE
	We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.  Type Code Symbol Stamp: Not applicable Certificate Authorization No.: Not applicable Expiration Date: Not Applicable
	Prepared by Lucit Euris Signed Plant Technical Manager
	Date 5/19/90 Date 5-2/-90
	CERTIFICATE OF INSERVICE INSPECTION
	I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period \$\frac{5/7/90}{20}\$ to \$\frac{5/22/90}{20}\$ and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.  By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.  Commissions  Omnissions  Omnissions  Omnissions  Omnissions  Omnissions  Omnissions  Omnissions  Omnissions
	Date <u>5/72/90</u>

l

MWR AS 2926 Ruldif Eurs

	•	-110/02
FORM H-2 NPT CRETIFICATE BOLDERS! DATE	רושו שיטונט סמכדיווא פרוו ייסוכסיס	ADDITIONAL PROPERTY OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF
TOTAL BY THE CONTRICTION DOWNERS DAIL	TOTAL TOT BOLLERS FAIL ME	
As required by the Provision of	the scurp code but on comein	TTT Die 1
AS INCLUDED BY CAR PLOYISICAL CA		1 LIL MY

*Sheet 1 cf 2  *Sheet 1 cf 2  *Sheet 1 cf 2  *Certify that the statements in this report are correct and this vessel part or appartenance as defined in the code conforms to the rules of construction of the ASAE Code Section III.  (The applicable Designed Specification and Stress Report are not the responsibility of the NFT Certificate Bolder for parts. An NFT Certification Bolder for appartenance is responsible for furnishing a separate Design Specification and Stress Report of the appartenance is not included in the component Design Specification and Stress Report.  [NFT CERTIFICATION OF DESIGN FOR APPORTMENCS]  [Design information on file at G2 COMPANY, SAN JOSE, CALIFORNIA]  [Stress analysis report on file at G2 COMPANY, SAN JOSE, CALIFORNIA]  [Design specification certified by BIONN HAMERG PROF. Bog. State CALIF. Reg. No. 15570 DECEMBERS Rev. 0.  [Stress analysis report certified by EXAMON MOSHIO Prof. Eng. State CALIF. Reg. No. 4018646]  [I, the undersigned, bolding a valid commission by the National Board of Boiler and Pressure Inspectors and/or the State or Province of NATH CARILINA and employed by PERATMENT CF LABOR OF SEME CANCER CARLINA and employed by PERATMENT CF LABOR OF SEME CANCER CARLINA and employed by PERATMENT CF LABOR OF SEME CANCER CARLINA and employed by PERATMENT CF LABOR OF SEME CANCER CARLINA and employed by PERATMENT CF LABOR OF SEME CANCER CARLINA and employed by PERATMENT CF LABOR OF SEME CANCER CARLINA and employed by PERATMENT CF LABOR OF SEME CANCER CARLINA and employed by PERATMENT CF LABOR OF SEME CANCER CARLINA and employed by PERATMENT CF LABOR OF SEME CANCER CARLINA and employed by PERATMENT CF LABOR OF SEME CANCER CARLINA and employed by PERATMENT CF LABOR OF SEME CANCER CARLINA and employed by PERATMENT CF LABOR OF SEME CANCER CARLINA and employed by PERATMENT CF LABOR OF SEME CANCER CARLINA and employed by PERATMENT CF LABOR OF SEME CANCER CARLINA and employed by PERATMENT CF LABOR OF SEME CANCER CARLINA and employed by PERATMENT CF LABOR OF SEME CANCER CARLINA and employe	
2. Identification—Certificate Holders's S/N of Part: A8577 Nat'l Ed. No. N/A  (a) Constructed According to Drawing No: 915D2583003 Dwg. Prepared by D. L. Peterson  (b) Description of Part Inspected: CYINDER THEE & FLANCE  (c) Applicable ASME Order: Section III, Edition 1974 Addends Date W'75 Case No.1361-2 Class 1  3. REMARKS: Sub-assembly of Control Red Drive for use with reactor.  (Eller description of service for which component was designed)  Bydrostatically tested at 1825 pai. min.  *Sheet 1 of 2  We certify that the statements in this report are correct and this vessel part or appurtenance as defined in the order conforms to the rules of construction of the ASME Orde Section III.  (The applicable Designed Specification and Stress Report are not the responsibility of the NFT Certificates Bolder for parts. An NFT Certification Edder for appurtenance is responsible for furnishing a separate Design Specification and Stress Report of the appurenance is not included in the component Design Specification and Stress Report.  (NFT Certificate Of Authorization Expires: 6/16/90 Certification of Authorization No.: NFT N-1151  CERTIFICATION OF DESIGN FOR APPURENCE  Design information on file at GZ COMPNY, SM JUSE, CALIFORNIA  CERTIFICATION OF HER PROPERTIES  I, the undersigned, bolding a walled commission by the National Board of Boiler and Pressure and/or the State of Review of NCRSI CARVINA and employed by PERMINANY OF LABOR OF STATE OF NATURE CRITICATION OF HER PROPERTIES  I, the undersigned, bolding a walled commission by the National Board of Boiler and Pressure and/or the State of Review of NCRSI CARVINA and employed by PERMINANY OF LABOR OF STATE OF NATURE CRITICATION OF HER PROPERTIES  II, the undersigned, bolding a walled commission by the National Board of Boiler and Pressure and/or the State of Review of NCRSI CARVINA and employed by PERMINANY OF LABOR OF STATE OF NATURE CRITICATION OF HER PROPERTIES  II, the undersigned, bolding a walled commission by the National Board of Boiler and Pressure and Office th	1. Manufactured & Certified by: GZ Comcany, 2117 Castle Hayne Rd., Wilmington, N.C. 28402
2. Identification—Certificate Holders's S/N of Part: A8577 Nat'l Ed. No. N/A  (a) Constructed According to Drawing No: 915D2583003 Dwg. Prepared by D. L. Peterson  (b) Description of Part Inspected: CYINDER THEE & FLANCE  (c) Applicable ASME Order: Section III, Edition 1974 Addends Date W'75 Case No.1361-2 Class 1  3. REMARKS: Sub-assembly of Control Red Drive for use with reactor.  (Eller description of service for which component was designed)  Bydrostatically tested at 1825 pai. min.  *Sheet 1 of 2  We certify that the statements in this report are correct and this vessel part or appurtenance as defined in the order conforms to the rules of construction of the ASME Orde Section III.  (The applicable Designed Specification and Stress Report are not the responsibility of the NFT Certificates Bolder for parts. An NFT Certification Edder for appurtenance is responsible for furnishing a separate Design Specification and Stress Report of the appurenance is not included in the component Design Specification and Stress Report.  (NFT Certificate Of Authorization Expires: 6/16/90 Certification of Authorization No.: NFT N-1151  CERTIFICATION OF DESIGN FOR APPURENCE  Design information on file at GZ COMPNY, SM JUSE, CALIFORNIA  CERTIFICATION OF HER PROPERTIES  I, the undersigned, bolding a walled commission by the National Board of Boiler and Pressure and/or the State of Review of NCRSI CARVINA and employed by PERMINANY OF LABOR OF STATE OF NATURE CRITICATION OF HER PROPERTIES  I, the undersigned, bolding a walled commission by the National Board of Boiler and Pressure and/or the State of Review of NCRSI CARVINA and employed by PERMINANY OF LABOR OF STATE OF NATURE CRITICATION OF HER PROPERTIES  II, the undersigned, bolding a walled commission by the National Board of Boiler and Pressure and/or the State of Review of NCRSI CARVINA and employed by PERMINANY OF LABOR OF STATE OF NATURE CRITICATION OF HER PROPERTIES  II, the undersigned, bolding a walled commission by the National Board of Boiler and Pressure and Office th	(b) Manufactured for: WNP-2, RICHIAND, Wa. 99352  (Name and Address of N Cartificate Bolder for completed nuclear component)
(a) Constructed According to Drawing Not 915D2583003 Day, Prepared by D. L. Peterson  (b) Description of Part Inspected:  (c) Applicable ASME Order Section III, Edition 1974, Addenda Date W75 Case No. 1361-2 Class 1  3. REMARKS:  Sub-assembly of Control Red Drive for use with reactor.  (Effici cescription of Service for which Component was designed)  Rydrestatically tested at 1825 pai. min.  *Sheet 1 of 2  We carrify that the statements in this report are correct and this vessel part or appurtenance as defined in the code conforms to the rules of construction of the ASME Order Section III.  (The applicable Designed Specification and Stress Report are not the responsibility of the NTT Certificates Bolder for parts. An NTT Certification Bolder for appurtenances is responsible for furnishing a servate Design Specification and Stress Report.  DESIGNED ASME OF DESIGN PROPERTY. CHAPTER SECTION IN THE ASME OF ANTICATION OF DESIGN PROPERTY. CHAPTER SOLVED.  (RETERICATION OF DESIGN PRO AMPRICATION DESIGN PROPERTY OF THE ASMEDIATE CHAPTER SOLVED.  (RETERICATION OF DESIGN PRO AMPRICATION DESIGN PROPERTY OF THE ASMEDIATE CHAPTER SOLVED.  (RETERICATION OF SERIES FOR APPRICATION DESIGN PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERT	) ·
(c) Applicable ASME Code: Section III, Edition 1974, Addenda Date WT5 Case No.1361-2 Class 1 3. REMARKS: Sub-assembly of Control Red Drive for use with reactor.  (Enter description or service for which component was designed)  Everostatically tested at 1825 pai. min.  *Sheet 1 of 2  We certify that the statements in this report are correct and this vessel part or appurenance as defined in the code conforms to the rules of construction of the ASME Code Section III.  (The applicable Designed Specification and Stress Report are not the responsibility of the NT Certificate Bolder for appurenances is responsible for furnishing a separate Design Specification and Stress Report if the appurenance is not included in the component Design Specification and Stress Report if the appurenance is not included in the component Design Specification and Stress Report if the appurenance is not included in the component Design Specification and Stress Report if the appurenance is not included in the component Design Specification and Stress Report if the appurenance is not included in the component Design Specification and Stress Report if the appurenance is not included in the component Design Specification and Stress Report if the appurenance is not included in the component Design Specification of Stress Report if the appurenance is not included of Authorization Department of REMARKS CALIFORNIA  CERTIFICATION OF DESIGN FOR APPURENCES  LICENSISTENCY OF THE RESIDENCY OF THE PROPERTY OF THE RESIDENCY OF THE RESIDE	(a) Constructed According to Drawing No: 919D258G003 Dwg. Prepared by D. L. Peterson
REMARKS: Sub-assembly of Control Red Drive for use with reactor.  (River cescription or service for which component was designed)  Rydrostatically tested at 1825 pai. min.  *Sheet 1 of 2  We certify that the statements in this report are correct and this vessel part or appurtenance as defined in the code conforms to the rules of construction of the ASME Orde Section III.  (The applicable Designed Specification and Stress Report are not the respectively of the NFT Certificates Bolder for parts. AN NFT Certification Ender for appurtenances is responsible for furnishing a separate Design Specification and Stress Report. If the appurtenance is not included in the component Design Specification and Stress Report. If the appurtenance is not included in the component Design Specification and Stress Report.  DESIGN CERTIFICATION OF DESIGN FOR APPURENCE OF DESIGN FOR APPURENCE OF DESIGN FOR APPURENCE OF DESIGN FOR APPURENCE OF DESIGN FOR APPURENCE OF DESIGN FOR APPURENCE OF DESIGN FOR APPURENCE OF DESIGN FOR APPURENCE OF DESIGN FOR APPURENCE OF DESIGN FOR APPURENCE OF DESIGN FOR APPURENCE OF DESIGN FOR APPURENCE OF DESIGN FOR APPURENCE OF DESIGN FOR APPURENCE OF DESIGN FOR APPURENCE OF DESIGN FOR APPURENCE OF DESIGN FOR APPURENCE OF DESIGN FOR APPURENCE OF DESIGN FOR APPURENCE OF DESIGN FOR APPURENCE OF DESIGN FOR APPURENCE OF DESIGN FOR APPURENCE OF DESIGN FOR APPURENCE OF DESIGN FOR APPURENCE OF DESIGN FOR APPURENCE OF DESIGN FOR APPURENCE OF DESIGN FOR APPURENCE OF DESIGN FOR APPURENCE OF DESIGN FOR APPURENCE OF DESIGN FOR APPURENCE OF DESIGN FOR APPURENCE OF DESIGN FOR APPURENCE OF DESIGN FOR APPURENCE OF DESIGN FOR APPURENCE OF DESIGN FOR APPURENCE OF DESIGN FOR APPURENCE OF DESIGN FOR APPURENCE OF DESIGN FOR APPURENCE OF DESIGN FOR APPURENCE OF DESIGN FOR APPURENCE OF DESIGN FOR APPURENCE OF DESIGN FOR APPURENCE OF DESIGN FOR APPURENCE OF DESIGN FOR APPURENCE OF DESIGN FOR APPURENCE OF DESIGN FOR APPURENCE OF DESIGN FOR APPURENCE OF DESIGN FOR APPURENCE OF DESIGN FOR APPURENCE OF DESIGN FOR APPURENCE OF DESIGN FOR	(b) Description of Part Inspected: CYLRUBR TUBE & FLAKES
(Brier cescription of service for which component was designed)  Sydrostatically tested at 1825 pai. min.  *Sheet 1 of 2  *Construction of the ASHE Chie Section III.  (The applicable Designed Specification and Stress Report are not the responsibility of the NFI Certificate Bolder for parts. A NFI Certification Bolder for appurtenances is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is not included in the component Design Specification and Stress Report if the appurtenance is not included in the component Design Specification and Stress Report if the appurtenance is not included in the component Design Specification and Stress Report.  DE: 12/31 ,19 88 Signed GRANDERS By  CAPTICATION OF DESIGN FOR APPURENCES  CAPTICATION OF DESIGN FOR APPURENCES  Design information on file at GR COMPANY, SAN JUSE, CALIFORNIA  CERTIFICATION OF SERIES FOR APPURENCES  Design specification certified by BIONN HAMBERS Prof. Eng. State CALIF. Reg. No. 15570  DESIGN Special Serv. 0.  Stress analysis report certified by EXARD WORLD Frof. Eng. State CALIF. Reg. No. M018646  CERTIFICATION OF SHIP INSTITUTE  I, the undersigned, holding a valid commission by the National Board of Boiler and Pressure Inspections of State or Province of NARES CARITIAN and employed by EPPARTMENT OF LARGE STATE OF NARES CARITIAN have inspected upe Fart or a pressure varied of motions and belief, the NFT CERTIFICATE BOILER CARITIAN and employed by EPPARTMENT OF LARGE CERTIFICATION OF SHIP AND AND ADMINISTRATION AND ADMINISTRATION AND ADMINISTRATION AND ADMINISTRATION AND ADMINISTRATION AND ADMINISTRATION AND ADMINISTRATION AND ADMINISTRATION AND ADMINISTRATION AND ADMINISTRATION AND ADMINISTRATION AND ADMINISTRATION AND ADMINISTRATION AND ADMINISTRATION AND ADMINISTRATION AND ADMINISTRATION AND ADMINISTRATION AND ADMINISTRATION AND ADMINISTRATION AND ADMINISTRATION AND ADMINISTRATION AND ADMINISTRATION AND ADMINISTRATION AND ADMINISTRATION AND ADMINISTRATION AND ADMINISTRATION AND ADMINISTRATION AND ADMINISTRATI	(c) Applicable ASME Code: Section III, Edition 1974, Addenda Date W'75 Case No. 1361-2 Class 1
We certify that the statements in this report are correct and this vessel part or appurtenance as defined in the code conforms to the rules of construction of the ASME Orde Section III.  (The applicable Designed Specification and Stress Report are not the responsibility of the NFT Certificate Bolder for parts. An NFT Certification Bolder for appurtenances is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is not included in the component Design Specification and Stress Report.  [Included in the component Design Specification and Stress Report.]  [Included in the component Design Specification and Stress Report.]  [Included in the component Design Specification and Stress Report.]  [Included in the component Design Specification and Stress Report.]  [Included in the component Design Specification and Stress Report.]  [Included in the component Design Specification and Stress Report.]  [Included in the component Design Specification and Stress Report.]  [Included in the component Design Specification and Stress Report.]  [Included in the component Design Specification and Stress Report.]  [Included in the component Design Specification and Stress Report.]  [Included in the component Design Specification and Stress Report.]  [Included in the component Design Specification and Stress Report.]  [Included in the ASME CALIFORNIA Specification of Authorization No.: NPT N-1151  [Included in the ASME CALIFORNIA Specification of Authorization No.: NPT N-1151  [Included in the ASME CALIFORNIA Specification of Authorization No.: NPT N-1151  [Included in the ASME CALIFORNIA Specification of Authorization No.: NPT N-1151  [Included in the ASME CALIFORNIA Specification of Authorization No.: NPT N-1151  [Included in the ASME CALIFORNIA Specification of Authorization No.: NPT N-1151  [Included in the ASME CALIFORNIA Specification of Authorization No.: NPT N-1151  [Included in the ASME CALIFORNIA Specification of Authorization No.: NPT N-1151  [Included in the AsMedia Specification	3. REMARKS: Sub-assembly of Control Rod Drive for use with reactor.  (Brief description of service for which component was designed)  Rydrostatically tested at 1825 psi. min.
as defined in the code conforms to the rules of construction of the ASME Code Section III.  (The applicable Designed Specification and Stress Report are not the responsibility of the NFT Certificate Bolder for parts. An NFT Certification Eolder for appurtenances is responsible for firmishing a separate Design Specification and Stress Report.  [Included in the component Design Specification and Stress Report.]  [Included in the component Design Specification and Stress Report.]  [Included in the component Design Specification and Stress Report.]  [Included in the component Design Specification and Stress Report.]  [Included in the component Design Specification and Stress Report.]  [Included in the component Design Specification and Stress Report.]  [Included in the component Design Specification of Stress Report.]  [Included in the component Design Specification of Stress Report.]  [Included in the component Design Specification of Component Specification of Authorization No.: NPT N-1151  [Included Included Includ	*Sheet 1 of 2
Certificate Of Authorization Expires: 6/16/90 Certification of Authorization No.: NPT N-1151  CERTIFICATION OF DESIGN FOR APPENDENCE  Design information on file at GZ COMPANY, SAN JOSE, CALIFORNIA  Stress analysis report on file at GZ COMPANY, SAN JOSE, CALIFORNIA  DE32A6253 Rev. 0  Design specification certified by BICAN HAMBERG Prof. Eng. State CALIF. Reg. No. 15570  DE32A6254 Rev. 0.  Stress analysis report certified by EDAND WOSHIO Prof. Eng. State CALIF. Reg. No. M018646  CERTIFICATION OF SHOP INSPIRED  I, the undersigned, bolding a wellid commission by the National Board of Boiler and Pressure Inspectors and/or the State or Provinces of NORMS CAROLINA and employed by PEPARTMENT OF LABOR of STATE OF NORMS CAROLINA have inspected the part or a pressure vessel cescriced in this Partial Data Report on /2-3/ 19/8, and state that to the best of my knowledge and belief, the NFT Certificate Boiler has constructed this part in accordance with the ASME Code Section III.  By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the part described in the Partial Data Report. Furthermore, meither the Inspector nor his employer shall be liable in any manner for any personal injury or property damages or a leas of any kind arising from or connected with this inspection.  12-3/ 19/8 ** **Linear Months**  NI 779,PA.WC2160. OHIO	as defined in the code conforms to the rules of construction of the ASAE Code Section III.  (The applicable Designed Specification and Stress Report are not the responsibility of the NPT Certificates Bolder for parts. An NPT Certification Bolder for appurtenances is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is not included in the company Design Specification and Stress Report if the appurtenance is not included in the company.
Certificate Of Authorization Expires: 6/16/90 Certification of Authorization No.: NPT N-1151  CERTIFICATION OF DESIGN FOR APPENDENCE  Design information on file at GZ COMPANY, SAN JOSE, CALIFORNIA  Stress analysis report on file at GZ COMPANY, SAN JOSE, CALIFORNIA  DE32A6253 Rev. 0  Design specification certified by BICAN HAMBERG Prof. Eng. State CALIF. Reg. No. 15570  DE32A6254 Rev. 0.  Stress analysis report certified by EDAND WOSHIO Prof. Eng. State CALIF. Reg. No. M018646  CERTIFICATION OF SHOP INSPIRED  I, the undersigned, bolding a wellid commission by the National Board of Boiler and Pressure Inspectors and/or the State or Provinces of NORMS CAROLINA and employed by PEPARTMENT OF LABOR of STATE OF NORMS CAROLINA have inspected the part or a pressure vessel cescriced in this Partial Data Report on /2-3/ 19/8, and state that to the best of my knowledge and belief, the NFT Certificate Boiler has constructed this part in accordance with the ASME Code Section III.  By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the part described in the Partial Data Report. Furthermore, meither the Inspector nor his employer shall be liable in any manner for any personal injury or property damages or a leas of any kind arising from or connected with this inspection.  12-3/ 19/8 ** **Linear Months**  NI 779,PA.WC2160. OHIO	Ore: 12/31 ,19 88 Signed GZ-NESG-NFSCY-CA By JULY Tril
Design information on file at GZ COMPANY, SAN JOSE, CALIFORNIA  Stress analysis report on file at GZ COMPANY, SAN JOSE, CALIFORNIA  DESIGN specification certified by BJONN HAABERG Prof. Eng. State CALIF. Reg. No. 15570  DESIGN specification certified by BJONN HAABERG Prof. Eng. State CALIF. Reg. No. 15570  DESIGN specification certified by EWARD WOSHIO Prof. Eng. State CALIF. Reg. No. Mol8646  CERTIFICATION OF SHIP INSPICION  I, the undersigned, holding a valid commission by the National Board of Boiler and Pressure Inspectors and/or the State or Province of NORTH CAROLINA and employed by IMPARIMENT OF LABOR of STAME OF NORTH CAROLINA have inspected the Part of a pressure vessel described in this Partial Data Report on 12-3/ 1998, and state that to the best of my knowledge and belief, the NPT Cruticate Boider has constructed this part in accordance with the ASAE Code Section III.  By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the part described in the Partial Data Report. Purthermore, meither the Inspector nor his employer shall be liable in any menner for any personal injury or property damages or a loss of any kind arising from or connected with this inspection.  NO 179,PA-WC2160, OHIO	Certificate Of Authorization Expires: 6/16/90 Certification of Authorization No.: NPT N-1151
Stress analysis report on file at GZ CIMPANY, SAN JOSE, CALIFORNIA  DESIGN specification certified by BUCAN HAADERG Prof. Eng. State CALIF. Reg. No. 15570  DE32A6254 Rev. 0.  Stress analysis report certified by ELWARD WOSHIO Prof. Eng. State CALIF. Reg. No. Mol8646  CERTIFICATION CF SHCP INSTITUTE  I, the undersigned, holding a valid commission by the National Board of Boiler and Pressure Inspectors and/or the State or Province of NORTH CAROLINA and employed by PEPARTMENT OF LABOR of STATE OF NORTH CAROLINA have inspected the part or a pressure vessel described in this Partial Data Report on /2-3/ 1978, and state that to the best of my knowledge and belief, the NFT Carolina Boiler has constructed this part in accordance with the ASME Code Section III.  By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the part described in the Partial Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damages or a loss of my kind arising from or connected with this inspection.  12-3/ 1978 At Manney	CRETATION OF DESIGN FOR APPROXIMENTS
DESIGN specification certified by BICRN HAMBERG Prof. Eng. State CALIF. Reg. No. 15570 DE32A6254 Rev. 0. Stress analysis report certified by EXAKD WOSHIO Prof. Eng. State CALIF. Reg. No. M018646  I, the undersigned, holding a welld commission by the National Board of Boiler and Pressure Inspectors and/or the State or Province of NORIS CAROLINA and employed by DEPARTMENT OF LABOR of STATE OF NORIS CAROLINA have inspected the part or a pressure vessel described in this Partial Lata Report on /2-3/ 19/8, and state that to the best of my knowledge and belief, the NPT Certificate Boiler has constructed this part in accordance with the ASME Code Section III.  By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the part described in the Partial Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damages or a loss of any kind arising from or connected with this inspection.  12-3/ 19/8 At Machinery 19/10/10/10/10/10/10/10/10/10/10/10/10/10/	Design information on file at GZ COMPANY, SAN JOSE, CALIFORNIA
Design specification certified by BICAN HAMBERG Prof. Eng. State CALIF. Reg. No. 15570 DC12A6254 Rev. 0.  Stress analysis report certified by EDWARD MOSHIO Prof. Eng. State CALIF. Reg. No. M018646  L, the undersigned, holding a valid commission by the National Board of Boiler and Pressure Inspectors and/or the State or Province of MCRIS CARCLINA and employed by DEPARTMENT OF LABOR of STATE OF NORTH CARCLINA have inspected the part of a pressure vessel ossurized in this Partial Data Report on 12-3/ 1978, and state that to the best of my knowledge and belief, the NPT Carculateder Dolder has constructed this part in accordance with the ASME Code Section III.  By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the part described in the Partial Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damages or a loss of any kind arising from or connected with this inspection.  12-3/ 1998 At Mosember 1800 NEWARD MOSHIO	Stress analysis report on file at GZ COMPANY, SAN JOSE, CALIFORNIA
I, the undersigned, bolding a valid commission by the National Board of Boiler and Pressure Inspectors and/or the State or Province of NORTH CAROLINA and employed by DEPARTMENT OF LABOR of STATE OF NORTH CAROLINA have inspected the part or a pressure vessel described in this Partial Data Report on /2-3/ 19/8, and state that to the best of my knowledge and belief, the NPT Certificate Boider has constructed this part in accordance with the ASAE Code Section III.  By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the part described in the Partial Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damages or a loss of any kind arising from or connected with this inspection.  12-3/ 1998 A Miller of the NET OF THE NET OF THE NET OF THE NET OF THE NET OF THE NET OF THE NET OF THE NET OF THE NET OF THE NET OF THE NET OF THE NET OF THE NET OF THE NET OF THE NET OF THE NET OF THE NET OF THE NET OF THE NET OF THE NET OF THE NET OF THE NET OF THE NET OF THE NET OF THE NET OF THE NET OF THE NET OF THE NET OF THE NET OF THE NET OF THE NET OF THE NET OF THE NET OF THE NET OF THE NET OF THE NET OF THE NET OF THE NET OF THE NET OF THE NET OF THE NET OF THE NET OF THE NET OF THE NET OF THE NET OF THE NET OF THE NET OF THE NET OF THE NET OF THE NET OF THE NET OF THE NET OF THE NET OF THE NET OF THE NET OF THE NET OF THE NET OF THE NET OF THE NET OF THE NET OF THE NET OF THE NET OF THE NET OF THE NET OF THE NET OF THE NET OF THE NET OF THE NET OF THE NET OF THE NET OF THE NET OF THE NET OF THE NET OF THE NET OF THE NET OF THE NET OF THE NET OF THE NET OF THE NET OF THE NET OF THE NET OF THE NET OF THE NET OF THE NET OF THE NET OF THE NET OF THE NET OF THE NET OF THE NET OF THE NET OF THE NET OF THE NET OF THE NET OF THE NET OF THE NET OF THE NET OF THE NET OF THE NET OF THE NET OF THE NET OF THE NET OF THE NET OF THE NET OF THE NET OF THE NET OF THE NET OF THE NET OF THE NET OF THE	Design specification certified by BICHN HAMBERG Prof. Eng. State CALIF. Reg. No. 15570
I, the undersigned, holding a valid commission by the National Board of Boiler and Pressure Inspectors and/or the State or Province of NORTH CAROLINA and employed by PEPARTMENT OF LABOR of STATE OF NORTH CAROLINA have inspected the Part of a pressure vessel described in this Partial Data Report on /2-3/ 19/8, and state that to the best of my knowledge and belief, the NPT Carulicate Boider has constructed this part in accordance with the ASAE Code Section III.  By signing this cartificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the part described in the Partial Data Report. Purthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damages or a loss of any kind arising from or connected with this inspection.  12-3/ 1988 A Miller of Miller 1998 A Miller 1998 A Miller 1998 A Miller 1998 A Miller 1998 A Miller 1998 A Miller 1998 A Miller 1998 A Miller 1998 A Miller 1998 A Miller 1998 A Miller 1998 A Miller 1998 A Miller 1998 A Miller 1998 A Miller 1998 A Miller 1998 A Miller 1998 A Miller 1998 A Miller 1998 A Miller 1998 A Miller 1998 A Miller 1998 A Miller 1998 A Miller 1998 A Miller 1998 A Miller 1998 A Miller 1998 A Miller 1998 A Miller 1998 A Miller 1998 A Miller 1998 A Miller 1998 A Miller 1998 A Miller 1998 A Miller 1998 A Miller 1998 A Miller 1998 A Miller 1998 A Miller 1998 A Miller 1998 A Miller 1998 A Miller 1998 A Miller 1998 A Miller 1998 A Miller 1998 A Miller 1998 A Miller 1998 A Miller 1998 A Miller 1998 A Miller 1998 A Miller 1998 A Miller 1998 A Miller 1998 A Miller 1998 A Miller 1998 A Miller 1998 A Miller 1998 A Miller 1998 A Miller 1998 A Miller 1998 A Miller 1998 A Miller 1998 A Miller 1998 A Miller 1998 A Miller 1998 A Miller 1998 A Miller 1998 A Miller 1998 A Miller 1998 A Miller 1998 A Miller 1998 A Miller 1998 A Miller 1998 A Miller 1998 A Miller 1998 A Miller 1998 A Miller 1998 A Miller 1998 A Miller 1998 A Miller 1998 A Miller 1998 A Miller 1998 A Miller 1998 A Miller 1998 A Mil	
Inspectors and/or the State or Province of NORTH CAROLINA and employed by DEPARMENT OF LABOR of STATE OF NORTH CAROLINA have inspected the part or a pressure vessel described in this Partial Data Report on /2-3/ 19/8, and state that to the best of my knowledge and belief, the NPT Certificate Boider has constructed this part in accordance with the ASME Code Section III.  By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the part described in the Partial Data Report. Furthernore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damages or a loss of any kind arising from or connected with this inspection.  12-3/ 1998 A Thickney Code  NO 779,PAWC2160. OHIO	· CRETACHION CO SECO DESPECTION
expressed or implied, concerning the part described in the Partial Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damages or a loss of any kind arising from or connected with this inspection.  12-31,1988 A formula 1998 NO 779, PAWC2L60. OHIO	Inspectors and/or the State or Province of NCRIE CROLINA and employed by DEPARTMENT OF LABOR of STATE OF NORTH CAROLINA have inspected the part of a pressure vessel described in this Partial Data Report on /2-3/ 19/8, and state that to the best of my knowledge and belief, the NPT Certificate Boider has constructed this part in accordance with the ASME Code Section III.
12-31 ,1988 At Heaville MD 779,PA:WC2L60. OHIO ATE //Inspector's Signature National Board,State, Province and No.	expressed or implied, concerning the part described in the Partial Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any menner for any personal injury or property damages or a loss of any kind arising from or connected with this inspection.
	12-31 ,1988 At Microsoft NO 779, PAWC2L60, OHIO

Applemental sheets in form of lists, sketches or drawing may be used provided (1) size is 6-1/2" X 11", (2) information in 1-2 on this Data Report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded in Item 3. "REMARKSS"

(10/77)

VERIFIED & ACCEPTED . R.I. Inspector Date

#### FORM N-2 (back)

Items 4-8 Incl. to be completed	for single well	vessels, jack	ets vessels, or	shells of hee	t exchangers.
4. Shell: Material T.S.	Hominel	Corrector			
4. Shell: MaterialT.S	Thicknessi	n. Allowanca_	in Diaft.	in . Lengti	J
(Kind & Spec.No)	) (Min-olgande 2b	ecified)			
5. Seems: Long	H.T.	R.T.	Efficien	×γ	¥
# #1.544	u • 1		V	•	
Girth_ 6. Heeds: (a) Material	-11 • 1 • <del>* </del>		No. or (	onises	
6. Heeds: (a) Macerial		(0)/41	ratzat	-1.2	
		!		61.4	614 4 6
Location (Top Cro	own Knuckle Ell	Therest from	Tar Hearsbuern	EST LISE	Side to Press.
Bottom, Ends) Thickness Rec			vudra kadina	DISMECSE	(conv.or conc.
( <u>e</u> )					
(b) If removable, bolts used					<del></del>
If reservois, boits used	- V- T C C1-	UENes	Leganing		
•	rc.No., T.S. Siza	NUMBER)	(Descr:	ine or accedu	execen)
7. Jecket Closure:		-10 han 4		(	
. (headine sa.o.	gee and weld, bar,	sec. It par d	ive dimensions,	r cotts, com	cirpe of speccu
2 2000		ene d	Urop W	eicht	
8. Design Pressure 2 1250		2/3	r Unarpy	Tabact	
	<u> </u>		at the	o. of	<u> </u>
There 0 and 10 to be completed	C Auto	!			
Items 9 and 10 to be completed i	dr troe sections	·		<del></del>	<del></del>
A Taba Chashas Chahlanan Mah		64-	Thinker.		
9. Tube Sheets: Stationary Mat Floating. Materia	/Vied of Sono	Wa \ (5:24)	(UZCXUGE	m. Accien	Moldad Calbad
Clambian Wabani	(Kand of Spec.	Mg.) (2m).:	A Fides.		watced, patred)
L Toschid. Watern	·		nurcxuessn	1. Accidentant	
10 Tubos Makanial	00 in th	d aleana	an com Number	Tues	•
10. Tubes: Material		TCXII484	or dada. wommer		Str. or U)
				\·	act. of ol
Items II-14 incl. to be complete	- 1				
12. Seass: Long H.T.1 Girth H.T.1 13. Heads (a) Haterial Location Cr	R.T.	Efficia	oney		
GIRENH.I.*	R. i :	No. of	Courses		
D. Heads (a) Hatarial	r.5,_		(D)Mecoties		.5
Location Cr	mu Kuncie Eii	iptical Conc	ial Homispher:	ical Fat	Side to Press
(a) (co) socrosi ircasas va	TIUS KAGIUS X	sero ybax	vudna kadina	Diescar	(Conv. or Corc.
(b)Channel If removable, bolts used (a)			Seekeelee		<del></del>
It temporable, potts oseo (s)	(°) (	(C)		1 h a a a a a a a a a a a a a a a a a a	elenten.
				ibe or actach	
			Orap w	pight	G 15
14. Design pressure <sup>2</sup>			tharpy	1 =D #CC	t-1p
24, Design presente-	287 40		** BG 6578	J. Of	
Items below to be completed for	all vennels wher	e applicable.			
			<del></del>		
15. Safety Valve Outlets: Number	r	Size	Location		
·		·			
16. Nozzlas:					
Purpose (Inlat				Reinforces	nt
Outlet, Orain) Number	Dia or Size	Type Hats	rial Thickness	Hatorial	Attached
			·		_
,	_				
17. Inspection Hannoles, No	Si=		Location		
Openings: Handles, No.	Siza		Location		
Threaded, No.	Size		Location		
, ,		<del></del>			
18. Supports: Shirt	Lugs	Lags	Other	Attached	
(Yes or No			Descri	(X	(wolf & zaed
1 If Postwold Heat-Treated.					
2 List other internal or externa					
I lat other internal on evenous	יייוצ איונגפאין פו	COULDE, GOOL	CARCILLES ALIEN		



Date: 5/19/90

Sheet: 1 of 1 Unit: WNP-2

## FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

1. Owner: Washington Public Power Supply System

Address: 3000 George Washington Way, Richland, WA

2. Plant: WPPSS Nuclear Power Plant (WNP)

Address: Hanford, Benton County, WA

- 3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA
  - (b) Repair Organization P.O. No., Job No., etc.: WPPSS
- 4. Identification of System: Control Rod Drive (CRD)
- 5. (a) Applicable Construction Code ASME Section III: 1971 Edition with no Addenda, Code Case: None
  - (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition, Winter 1980 Addenda, Code Case: N-308
- 6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
CRD	ge	A916	N/A	N/A	1975	Replacement	Yes, Class 1
CT&F	ge	A8530	N/A	N/A	1987	Replacement	Yes, Class 1

#### 7. Description of Work:

- > Existing Control Rod Drive (CRD) Serial Number A916, ASME Section III, Code Class 1, 1971 Edition with no Addenda
- > New replacement Cylinder Tube and Flange (CT&F) assembly Serial Number A8530, ASME Section III, Code Class 1, 1974 Edition with Winter 1975 Addenda
- > Disassembled CRD for overhaul. Performed PT examination on the CT&F assembly. PT examination results were evaluated to be unacceptable. Performed visual examination on the piston tube assembly. Visual examination results acceptable. Reassembled CRD parts and installed new replacement CT&F assembly.
- > Note: The entire CRD assembly is now identified by the new replacement CT&F serial number

	FORM NIS-2 (Back)								
8.	8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other X None Test Pressure: Psig Temperature: °F Component Design Pressure: Psig Temperature: °F								
9.	Remarks: See attached N-2 Code Data Report for new replacement Cylinder Tube and Flange (CT&F) assembly Serial Number A8530								
	CERTIFICATE OF COMPLIANCE								
	We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.  Type Code Symbol Stamp: Not applicable Certificate Authorization No.: Not applicable Expiration Date: Not Applicable  Prepared by  Plant Technical Manager								
	Date								
	I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period $5/2/90$ to $5/22/90$ and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.  By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.  Commissions								
	Inspector's Signature National Board, State, and Endorsements  Date 5/22/90								

or the provision of the ASHE Code Rules, Section III, Div. 1
Marrufactured & Certified by: GE Company, 2117 Castle Hayne Rd., Wilmington, N.C. 28402  WNP-2 (Name and Address of NPT Certificate Holder)
(b) Hanufactured for: HNP-2 (Name and Address of N Certificate Holder for completed nuclear component;
tification-Certificate Holders's S/N of Part: A8530 Net'l Bd. No. N/A
(a) constructed According to Drawing-No: 9190258G003 Dwg. Prepared by O. L. Peterson
(b) Description of Part Inspected: CYLINDER TUBE & FLANGE
(c) Applicable ASHE Code: Section III, Edition 1974, Addenda Date W175 Case No. 1361-2 Class 1
REHARKS: Sub-essembly of Control Rod Drive for use with reactor.  (Brief description of service for which component was designed)  Hydrostatically tested at 1825 pai. min.
Sheet 1 of 2 MWR AS 2930.
puring Superior of the contents of this report are correct and this vessel part or appropriate defined in the code conforms to the rules of construction of the ASME Code Section III. The applicable Designed Specification and Stress Report are not the responsibility of the NPT certificate Holder for appurtenances is responsible or furnishing a separate Design Specification and Stress Report if the appurtenance is not necluded in the component Design Specification and Stress Report).
ATE: 11/10, 19 87 Signed GE-NEBG-NF&CH-GA By . Structumei  (NPT Certificate Holder)
ertificate Of Authorization Expires: 6/16/90 Certification of Authorization No.: NPT N-1151
CERTIFICATION OF DESIGN FOR APPURTENANCE
nformation on file at GE COMPANY, SAN JOSE, CALIFORNIA
:ess analysis report on file at <u>GE COMPANY, SAN JOSE, CALIFORNIA</u> :22A6253 Rev. O
sign specification certified by <u>BJORN HAABERG</u> Prof. Eng. State <u>CALIF</u> . Reg. No. <u>15570</u> 222A6254 Rev. O.
:ress analysis report certified by EDWARD YOSHIO Prof. Eng. State CALIF. Reg. No. MO18646
CERTIFICATION OF SHOP INSPECTION
the undersigned, holding a valid commission by the National Board of Boiler and Pressure pectors and/or the State or Province of NORTH CAROLINA and employed by DEPARTHENT OF LABOR STATE OF NORTH CAROLINA have inspected the part of a pressure vessel described in this lal Data Report on 19, and state that to the best of my knowledge belief, the NPT Certificate Holder has constructed this part in accordance with the ASHE e Section III.  y signing this certificate, neither the Inspector nor his employer makes any warranty, ressed or implied, concerning the part described in the Partial Data Report. Furthermore, there the Inspector nor his employer shall be liable in any manner for any personal injury property damages or a loss of any kind arising from or connected with this inspection.
VERIFIED & ACCEPTED DV Meller  R.I. Inappeter Data

Nominal Corresion
Nominal Corrosion  4. Shall: Material T.S. Thickness in Allowance in Dia. ft. in Length ft
The distribution of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of t
(Kind & Spec.No) (Min.ofRange Specified)  5. Seams: Long H.T. R.T. Efficiency
Girth H.T.1 MWR ASRESSO No. of Courses S/W A8530 6. Heads: (a) Haterial T.S. (b) Material T.S. Mudul
6. Hosds: (a) Hatorial T.S. (b) Material T.S. Guduf
Location (Top . Crown Knuckle Elliptical Concial Hemispherical Flat Side to Press.
Bottom, Ends) Thickness Radius Radius Ratio Apex Angle Radius Dismeter (conv.or conc.)
(a)
If removable, bolts used Other fastening
(Material, Spec. No., T.S. Size Number) (Describe or attach sketch) 7. Jacket Closure:
(Describe as ages and weld, bar, etc. If bar give dimensions, if bolts, describe or shetch)
8. Design Pressure 2 1250 pai at 575 °F Cherpy Impact ft-1b
at temp. ofof
Items 9 and 10 to be completed for tube sections.
,
9. Tube Sheets: Stationary Hat'l. Dia. Thickness_in. Attachment (Kind of Spec. No.) (Subj.to Press.) . (Welded, Bolted)
Floating. Haterial
inches
10. Tubes: Material G.D. in. Thickness or gage. Number Type (Str. or U)
Items 11-14 incl. to be completed for inner chambers of jacketed vessels, or channels of hest exchangers  Nominal . Corrosion
11. Shell: Material T.S. Thickness in. Allowance in. Dia. ft. in Length ft. in.
(Kind&Spec.No.) (Him.ofRange Specified)
12. Seams: Long H.T. R.T. Efficiency Significant H.T. R.T. No. of Courses
Girth H.T. R.T. No. of Courses  13. Heads (a) Material T.S. (b) Material T.S.
Cocasion ' claws kundia sitibilist colorat Hebrahasical Fac 2108 to 51844
(a)Top, Bottom, Tichkess Radius Radius Ratio Apex Angle Radius Diameter (Conv.or Conc.)
(b)Channel
If removable, bolts used (a) (b) (c) Other Fastening (Describe or attach sketch
, the design of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of
Charpy Impact ft-lb  14. Design pressure <sup>2</sup> psi at of of of of of of of other psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the psi at the
14. Design pressure
Items below to be completed for all yessels where applicable.
15. Safety Valve Gutlets: Number Size Location
16. Nozzles:
Purpose (Inlet ** Reinforcement
I mband / Tiran
Outlet, Drain) Number Die dr Size Type Haterial Thickness Haterial - Attached
I mband / Tiran
Outlet, Orain) Number Dia or Size Type Haterial Thickness Haterial Attached
Outlet, Orain) Number Dia or Size Type Haterial Thickness Haterial Attached  17. Inspection Manholes, No. Size Location
Outlet, Orain) Number Dia or Size Type Haterial Thickness Haterial Attached
Outlet, Orain) Number Dia or Size Type Haterial Thickness Haterial Attached  17. Inspection Hanholes, No. Size Location Openings: Handles, No. Size Location Threaded, No. Size Location
Outlet, Orain) Number Dia or Size Type Haterial Thickness Haterial Attached  17. Inspection Hanholes, No. Size Location Openings: Handles, No. Size Location Thresded, No. Size Location

<sup>1</sup> If Postweld Heat-Treated.
2 List other internal or external pressure with conincident temperature when applicable.

Date: 6/25/90

Sheet: 1 of 1

Unit: WNP-2

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

1. Owner: Washington Public Power Supply System (WPPSS)

Address: 3000 George Washington Way, Richland, WA

2. Plant: WPPSS Nuclear Power Plant (WNP)

Address: Hanford, Benton County, WA

- 3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA
  - (b) Repair Organization P.O. No., Job No., etc.: WPPSS
- 4. Identification of System: Reactor Feed Water (RFW) System
- 5. (a) Applicable Construction Code ASME Section III: 1971 Edition with Winter 1973 Addenda, Code Case: None
  - (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
- 6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
RFW(1)-4A	WPPSS	RFW(1)-4A	N/A	N/A	1983	Replacement	Yes, Code Class 1
RFW(1)-4B	WPPSS	RFW(1)-4B	N/A	N/A	1983	Replacement	Yes, Code Class 1

7. Description of Work: Deleted snubbers for the following hangers-

RFW(1)-4A	RFW(1)-4B
RFW-147	RFW-163
RFW-150	RFW-166
RFW-153	RFW-167
RFW-154	RFW-168
RFW-155	RFW-170
RFW-160	RFW-172

<b>6</b>	NISORGICH FURLIC POPER SUPPLY SYSTEM
I	FORM NIS-2 (Back)

	SUPPLY SYSTEM MWR No AS 4972
	FORM NIS-2 (Back)
8.	Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other X None Test Pressure: Psig Test Temperature: °F Component Design Pressure: Psig Temperature: °F
9.	Remarks: None
	•
	CERTIFICATE OF COMPLIANCE
\$	We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.  Type Code Symbol Stamp: Not applicable Certificate Authorization No.: Not applicable Expiration Date: Not Applicable  Prepared by Ludb Eigh For Teh Signed by
	6/2/790 · Garager
	Date - 6-27-95
;	
	CERTIFICATE OF INSERVICE INSPECTION
	I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 4/2/10 to 6/27/10 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.  By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.    Description
	Abjector's digitated
	Date 6/27/90



Date: 5/19/90

Sheet: 1 of 1

Unit: WNP-2

## FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

1. Owner: Washington Public Power Supply System

Address: 3000 George Washington Way, Richland, WA

2. Plant: WPPSS Nuclear Power Plant (WNP)

Address: Hanford, Benton County, WA

- 3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA
  - (b) Repair Organization P.O. No., Job No., etc.: WPPSS
- 4. Identification of System: Control Rod Drive (CRD)
- 5. (a) Applicable Construction Code ASME Section III: 1971 Edition with no Addenda, Code Case: None
  - (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition, Winter 1980 Addenda, Code Case: N-308
- 6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
CRD	GE	7185	N/A	N/A	1975	Replacement	Yes, Class 1
CT&F	• GE	A8562	N/A	N/A	1988	Replacement	Yes, Class 1

#### 7. Description of Work:

- > Existing Control Rod Drive (CRD) Serial Number 7185, ASME Section III, Code Class 1, 1971 Edition with no Addenda
- > New replacement Cylinder Tube and Flange (CT&F) assembly Serial Number A8562, ASME Section III, Code Class 1, 1974 Edition with Winter 1975 Addenda
- > Disassembled CRD for overhaul. CT&F was rejected because collet housing was out of round and would not pass the leak test.

  Performed visual examination on the piston tube assembly. Visual examination results acceptable. Reassembled CRD parts and installed new replacement CT&F assembly.
- > Note: The entire CRD assembly is now identified by the new replacement CT&F serial number

4	XASSINUTON P	AGEN SCHOOL
	SUPPLY	SYSTEM

	FORM NIS-2 (Back)							
8.	Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other X None Test Pressure: Psig Test Temperature: OF Component Design Pressure: Psig Temperature: OF							
9.	Remarks: See attached N-2 Code Data Report for new replacement Cylinder Tube and Flange (CT&F) assembly Serial Number A&562							
	CERTIFICATE OF COMPLIANCE							
•	We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.  Type Code Symbol Stamp: Not applicable  Certificate Authorization No.: Not applicable  Expiration Date: Not Applicable							
	Prepared by Rulaif Guis Signed  Plant Technical Manager							
'n	Date <u>5719/90</u> Date <u>5:21-80</u>							
	CERTIFICATE OF INSERVICE INSPECTION							
	I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 5/3/90 to 5/22/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.  By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.  Omnissions							
	Date <u>5/22/90</u>							

MWR AS 5339 Julians Emps

FORM H-2 MPT CERTIFICATE HOLDERS' DATA REPORT FOR MUCISAR PART AND APPRECIATION OF the ASME Code Rules, Section III, Div. 1

1. Manufactured & Certified by: GZ Company, 2117 Castle Bayne Rd., Wilmington, N.C. 28402
1. Manufactured & Certified by: GZ Company, 2117 Castle Bayne Rd., Wilmington, N.C. 28402  (Name and Accress of NPT Certificate Boicer)  (b) Manufactured for: WNP-2, RICHLAND, Wa. 99352  (Name and Accress of N Certificate Boicer for completed nuclear component)
2. Identification-Certificate Bolders's S/N of Part: A8562 Nat'l Ed. No. N/A
(a) Constructed According to Drawing No: 919D258G003 Dwg. Prepared by D. L. Peterson
(b) Description of Part Inspected: CYLINDER TUBE & FLAGE
(c) Applicable ASME Orde: Section III, Edition 1974, Addenda Date W 75 Case No. 1361-2 Class 1
3. REMARKS: Sub-assembly of Control Rod Drive for use with reactor.
(Brief cescription of service for which component was cesigned)  Evolvestatically tested at 1825 psi. min.
*Sheer 1 of 2
We certify that the statements in this report are correct and this vessel part or apportenance as defined in the code conforms to the rules of construction of the ASME Code Section III. (The applicable Designed Specification and Stress Report are not the responsibility of the NPT Certificate Bolder for parts. An NPT Certification Bolder for apportenances is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is not included in the component Design Specification and Stress Report).
12/31 ,19 88 Signed GZ-NESC-NESC+CA By AMAGNIA.
(NPT Certificate Boicer)
Certificate Of Authorization Expires: 6/16/90 Certification of Authorization No.: NPT N-1151
· CRETTICATION OF DESIGN FOR APPROXIMATE
Design information on file at GZ COMPANY, SAN JOSE, CALIFORNIA
Stress analysis report on file at GZ COMPANY, SAN JOSE, CALIFORNIA
DC22A6253 Rev./0 Design specification cartified by BUCRN HAABERG Prof. Eng. State CALIF. Reg. No. 15570 DC22A6254 Rev. 0.
Stress analysis report certified by ECWARD YCSHIO Prof. Eng. State CALLY. Reg. No. MO18646
I, the undersigned, bolding a valid commission by the National Board of Boiler and Pressure Inspectors and/or the State or Province of NCRIE CROLINA and employed by DEPARTMENT OF LABOR of STATE OF NCRIE CROLINA have inspected the part of a pressure vessel described in this Partial Lata Report on /2-3/ 1955, and state that to the best of my knowledge and belief, the NFT Cartificate bolder has constructed this part in accordance with the ASME Code Section III.
By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the part described in the Partial Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any menner for any personal injury or property damages or a loss of any kind arising from or connected with this inspection.  12.3/,1988  15. Thermal 15. 179,FA.WCZL60, OHIO
CATE Macional Acard, State, Province and No.
Simplemental spects in form of lists, sketches or drawing may be used provided (1) size is

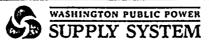
8-1/2" X 11", (2) information in 1-2 on this Data Report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded in Item 3. "REMARKSS"

(10/77)

### MWR AS 5339

FORM N-2 (back)

Itama 4-8 Incl.	to be comole					essels, or sh	elle of hee	t exchan	qers.
. Shell: Hater		No.	minal Valores	Corr	neton (n	D1- 26	la !		1
	Mind t Care	Na Y /M/a			•				n.
S. Seams: Long_	(Y TUG & Shee	*40) (un	or nance	. obecitied	,	reelal	_		
5. Stemme: Long_					•	FLLTCTeuc	<i>'</i>	<sub>2</sub>	
<b>91-11-</b>			ì		,	No 2 0 -	•		
Girth 6. Heada: (a) H		<sub>1</sub> -1	· — — —		(h)Mahaada	Ma. or Co	nrses		
6. Heada: (a) M	SCRLIST		1.3		-(0)Watelite	·			
Location (Top			Manuala 1 a	C111-641	Canalat	Mandanhandan		<b>614.</b> k.	0
Location (Top	Thi also as a	Crown	VUNCKTA	FITTACTOR	. Goncial	Momispherics	1 1185	3106 to	77086.
Battom, Ends)	Imcxiless	KEGIGE	Visita	WETO	Wax wate	VEGTOR	Orsmerst	(conv.o	r conc.,
(e)									
If resovable,	halds was				Ohban Casa				
Il Lendamora	(Neterical	Sana Na	7 6 6	Ann Marin	Contract the	(Describe		- de- b \	
Tallah Class	/verstrat	,spac .nu.	, 1.3.	ITE MONOGE	•	/neet10	a ne decada	extecn/	
7. Jacket Closu	(Describe a		d 1d 1	an ata II	ban diva d	imensions, if	boles dec		-22-2-20
	(0450:108 8	य व्युवस स	in matei's	mr, scc. 1	per diam a	in family religions	oores, ces	ctips of	anacen)
O Reales Green	2 195	.0		-b 55	. ec	Charm I	ght		16.
8. Design Press	<u> 127</u>	· · · · · · · · · · · · · · · · · · ·			<del></del>	Circulation and	~~ <u></u>		70
						as crep.	of		·1
Items 9 and 10 t	a he complet	and for to	-	202					
9. Tube Sheets: F	Stationer	Mar 17		Dia.		Thickness	in Attach		
7. 1000 SINGE	3646201411	(V10	d of 50	S VO V	Sib i to Pro		_0 /4626.	Y-14-4	Boltod)
r	locking Mat	·anini	,	01-	thi	ckness in	Attachment	MOTORC'	201 CAG 1
•	mermy. nec				inche		70000		
10. Tubes: Mater	.4.1	0.0	in	Thickness	20.00	on Number	Tura		
m. Image verdi	***		·	11146411404		d1	<del>-</del>	Str. or	111
	وسيريسيسوسانسي						<u> </u>	J V.	···
Items 11-14 incl	to be seen	lated for			· tackatad u	essale as ab	onale of b		
I Comp 31-14 TiveT	• co co como		inel	Corro	TACKOCOU V	emagis, or Cin	MW1878 (1 1)	der exti	ance:3
11. Shell: Mater		NOS:	LINEL.	(- the	1200	1			
TT' PUGTT: WEEGE	1811.3.	- Into	Xness	Tu • YTTOMS	ນ <b>ເສ</b> ນ. ບ	78 ·	raugen_	'`: •	m
(71)	d&Spec.No.)	(um.or	randa obe	sc11194)	•				•
19 Carres Lare		- 1			202 -1				
CLASS COINT		•			o of Course				
12. Seass: Long Girth 13. Heads (a) Na		• ~	'`•' ;-		n. di conta	***************************************			
Location	1002787	Carro	Vaugle 1.	.3. 5114aa4aa1	Corotol	Homisphoric:	<del></del> '	•3•	- 3
(a)Top, Settom,	Timbuna	Cadim	VINCTA	STRIBETOR	. Concies	umerabueric:	ar Lac	. /Came a	0 (2000 /
	, I LGIMBEB	MAGEUR	Vegrae	MECTO	vhex visits	uad100	O TEMOCAL	/Com-5	r conc.,
End (h)Cheann?	-						<del></del>		
(b)Channel If removeble, bo	100 mond (a)		<del>////-</del>	(-)	Chara Carl				
fi tamananta' od	TES GROG (S)		(3)	— <sup>(e)</sup> ——	_ Ocuer 1 mag	aning			
				•		(Descrip	e or ettech	skaten	
•						ntob werd	ght		
	•					Charpy I.	PORCE		_r-1b
14. Design prese	M18-		08	i at		T at thep.	of		•F
			•						
Itams below to b	e cappiated	LOL SIT.	vessels ,	nete soot	caple.				
15. Safety Valve	, Gutleta: Xu	mber				_Location			
									i .
16. Nozzles:									
Purpose (Inl	-	_		_			Rainforcesa		
Qutlet, Drei	in) Numb	sar ( D:	ia or Si:	⇒ i lλbα	Haterial	Thickness	Hetorial	λ	ttached
, <del></del>									
17. Inspection		٠		5128	_	ocation			
Coenings:	Handles, N	ام		Siza		cation			
	Threaded, N	ks		Size	L	ocation			
			_						
19. Supports: S			_Luga	La	•	ther	_Attacned		
1	(Yes or	(סוגיָ	(Nu	mer)	(Number)	(Describe	) (X	here & H	(wo)
1 If Postweld He	sat-Troated.		•		-				
2 List other int				( bb			niionih-	•	
Free Gebat Tut	"G FILET OL SY!	اكالتز شنصديها		بكالقالت س	reality countries	WATER ALIGN TO	pastation .		



# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

1. Owner (Name)	Washington P	ublic Power Su	Date1/2	/90				
Owner (Address)_	3000 George	Washington W	ay, Richlan	d, WA		Sheet1	of 1	
	WPPSS Nuclear	Power Plant (W	/NP)			Unit	WNP-2	
Plant (Address)	Hanford, B	enton County, \	<b>NA</b>		_	N/A		
3. Work Performed b	y (Name) WPP	SS	· · · · · · · · · · · · · · · · · · ·		Repair	Organization P.O. I	No., Job No., etc.	
Work Performed by (Address) 3000 George Washington Way, Richland, WA								
4. Identification of Sy	stemSer	vice Water			-			
5. (a) Applicable Co								
			for Repairs	or Replacei	nents 19,	80 Edition, W8	0 .	
Addenda,		ode Case		_			,	
6. Identification of C	omponents Repa	aired or Replace	ed and Repl	lacement C	omponer	nts T		
							ASME Code	
Name of	Name of	Manufacturer	National Board	Other	Year	Repaired, Replaced, or	Stamped (Yes or No)	
Component	Manufacturer	Serial No.	No.	1. D.	Built	Replacement	Code Class	
18SW(21)-2	BF Shaw	N/A	N/A	N/A	1979	Modification	Yes, Class	
•	BF Shaw	N/A	N/A	N/A	1079	Modification	Yes, Class	
18SW(22)-2	Dr Sllaw	N/A ,	1177		13/3		105, 01055	
				٠				
	İ						19	
			:					
							<u>'</u>	
7. Description of Wo	ork:							
Deleted snul	hhana fan h	ngone SH-Q	24N and	CM-037N				
pereted silu	pher 2 Tot Tie	anger 5 Shr 5	JAN ANA	311 33711	•			
							ь	
						*		
		·						
							4	
						•		

Notes:



### FORM NIS-2 (Back)

psig,

Test Temp.\_

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other 〒 — None-

Test Pressure \_\_\_\_\_

Cor	nponent Design Pressure	psig, Temp	°F
9. Remarks:			
	•		•
J. n			,
•			×
	u u		
*			
_	•		•
•			
	CERTIFICATE C	F COMPLIANCE	
We cogify that the	statements made in the report are	correct and this modific	ation conforms to the rules
of the ASME Code, Se		repair or repl	acement
Type Code Symbol Star	Net emplicable		·
Type Code Symbol Star			
Certificate Authorization	No. Not applicable	Expiration Date	Not applicable
D	24		
Signed 10x /	Maeure	Title Plant Tech	inical Manager
KKaw, owners	r Owner's Designee,		•
Date	19 <u>ラ</u> フ		•
,			
	CERTIFICATE OF IN	SERVICE INSPECTION	
(P			
I, the undersign	ed, holding a valid commission is	sued by the National Board	of Boiler and Pressure Vessel
Inspectors and the Sta Casualty Co.	te of Washington of Illinois		cted the components described
	during the period		
and state that to the he	est of my knowledge and belief, the	Owner has performed exam	ninations and taken corrective
measures described in	this Owner's Report in accordan	ce with the requirements of	the ASME Code, Section XI.
By signing this	certificate neither the Inspector no	r his employer makes any v	warranty, expressed or implied,
concerning the examin	ations and corrective measures de	scribed in this Owner's Rep	ort. Furthermore, neither the In-
spector nor his employ	er shall be liable in any manner for	any personal injury or prope	rty damage or a loss of any kind
arising from or connec	cted with this inspection.		
D. Cller	$C_{I}$		67 N. (
An Hicking in	spector's Signature Comm	nissions	I Board, State, and Endorsements
	and the		
Date /- /:>	19 <i>90</i>	•	
			· · · · · · · · · · · · · · · · · · ·

Date: 9/13/90

Sheet: 1 of 1

Unit: WNP-2

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

1. Owner: Washington Public Power Supply System (WPPSS)

Address: 3000 George Washington Way, Richland, WA

2. Plant: WPPSS Nuclear Power Plant (WNP)

Address: Hanford, Benton County, WA

- 3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA
  - (b) Repair Organization P.O. No., Job No., etc.: WPPSS
- 4. Identification of System: Service Water (SW) System
- 5. (a) Applicable Construction Code ASME Section III: 1971 Edition with Winter 1973 Addenda, Code Case: None
  - (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
- 6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
SW(1)-2 SW(2)-2 SW(21)-2 SW(22)-2	WPPSS WPPSS WPPSS WPPSS	SW(1)-2-P1 SW(2)-2-P1 SW(21)-2-P1 SW(22)-2-P1	N/A N/A N/A N/A	N/A N/A N/A N/A	1983 1983 1983 1983 1983	Replacement* Replacement* Replacement* Replacement*	Yes, Code Class 3 Yes, Code Class 3 Yes, Code Class 3 Yes, Code Class 3 Yes, Code Class 3

7. Description of Work: Reference BDC-55-1042-0A

Revised drawings to change the Equipment Piece Numbers (EPN's) for the following valves

EPN Changed From	EPN Changed To	Code System (N-5)	Valve S/N
SW-V-733A	SW-V-733B	SW(2)-2-P1	13728
SW-V-734A	SW-V-734B	SW(22)-2-P1	13450
SW-V-735A	SW-V-735B	SW(22)-2-P1	12697
SW-V-733B	SW-V-733A	SW(1)-2-P1	22689
SW-V-734B	SW-V-734A	SW(21)-2-P1	22470
SW-V-735B	SW-V-735A	SW(21)-2-P1	22578

The purpose of this NIS-2 form is to supplement the above listed N-5 Code Data Reports reflecting changed Equipment Piece Numbers (EPN's)

Drawing Change Only

	NASHINGTON PUBLIC POWER SUPPLY SYSTEM PLAN NO. BDC-55-1042-0.		
	FORM NIS-2 (Back)		
8.	Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other X None Test Pressure: Psig Test Temperature: OF Component Design Pressure: Psig Temperature: OF		
9.	Remarks: None		
	•		
	CERTIFICATE OF COMPLIANCE		
	We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.  Type Code Symbol Stamp: Not applicable Certificate Authorization No.: Not applicable Expiration Date: Not Applicable  Prepared by    Signed by   Plant Technical Manager		Date
	L		
	CERTIFICATE OF INSERVICE INSPECTION		
	I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 3/2/90 to 9/3/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.  By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.		
	Commissions 9556 W Inspector's Signature National Board, State, and Endorsements		
	Talional Doug, State, and Engoisements		

Date

PLAN NO. BDC-88-0254-1B

# FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

1. Owner: Washington Public Power Supply System (WPPSS)
Address: 3000 George Washington Way, Richland, WA

Date: 9/13/90 Sheet: 1 of 1 Unit: WNP-2

2. Plant: WPPSS Nuclear Power Plant (WNP)

í

Address: Hanford, Benton County, WA

- 3.(a) Work Performed by: WPPSS, 3000 George Washington Way, Richland, WA
- (b) Repair Organization P.O. No., Job No., etc.: WPPSS
- 4. Identification of System: Process Instrument (PI) System
- 5. (a) Applicable Construction Code ASME Section III: 1974 Edition with Winter 1975 Addenda, Code Case: None
  - (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements: 1980 Edition with Winter 1980 Addenda, Code Case: N-308
- 6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer * Serial No.	National Board No.	Other I.D.	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No) Code Class
D-220-9.0-H22- P021	JCI	D-220-9.0-H22- P021	N/A	N/A ,	1983	Replacement	Yes, Code Class 2

7. Description of Work: Referance BDC-88-0254-1B
Deleted hanger 220-6-020. This hanger supports bulk heads PI(1)-ST-(H22-P021)-A9 and PI(1)-ST-(H22-P021)-A10

WASHINGTON	PUBLIC POWER
SUPPLY	SYSTEM

PLAN NO. BDC-88-0254-1B

•
FORM NIS-2 (Back)
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other X  Test Pressure: Psig Test Temperature: °F  Component Design Pressure: Psig Temperature: °F
9. Remarks: None
CERTIFICATE OF COMPLIANCE
We certify that the statements made in the report are correct and this repair/replacement conforms to the rules of the ASME Code, Section XI.  Type Code Symbol Stamp: Not applicable  Certificate Authorization No.: Not applicable  Expiration Date: Not Applicable
Prepared by Culcup Signed by Plant Technical Manager
Date $\frac{9/13/90}{}$ Date $\frac{9-13-90}{}$
CERTIFICATE OF INSERVICE INSPECTION
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Washington and employed by Arkwright Mutual Insurance Company (Factory Mutual System) of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 4/25/96 to 9/3/90 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.  By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.  Commissions 9566 W  National Board, State, and Endorsements
Date 9/13/90