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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. Jones 10/10/90
 ISI Engineer Date

Reviewed by: Thomas F. Hryh 10/11/90
 Supervisor, Code Programs Date

Richard G. Man 10-11-90
 Manager, Materials and Inspection Date

C.R. Watts 10/12/90
 Manager, Engineering Systems Support Date

ST Jarwood 10/16/90
 Manager, Generation Engineering Date

RR 10/25/90
 Manager, Plant Technical Date

W.D. Dawson 10/26/90
 Manager, Plant Quality Assurance Date

Approved by: J.W. Baker 10/26/90
 Plant Manager Date

Concurrence: Sam Haggard 10/26/90
 Authorized Nuclear Inspector-Inservice Date

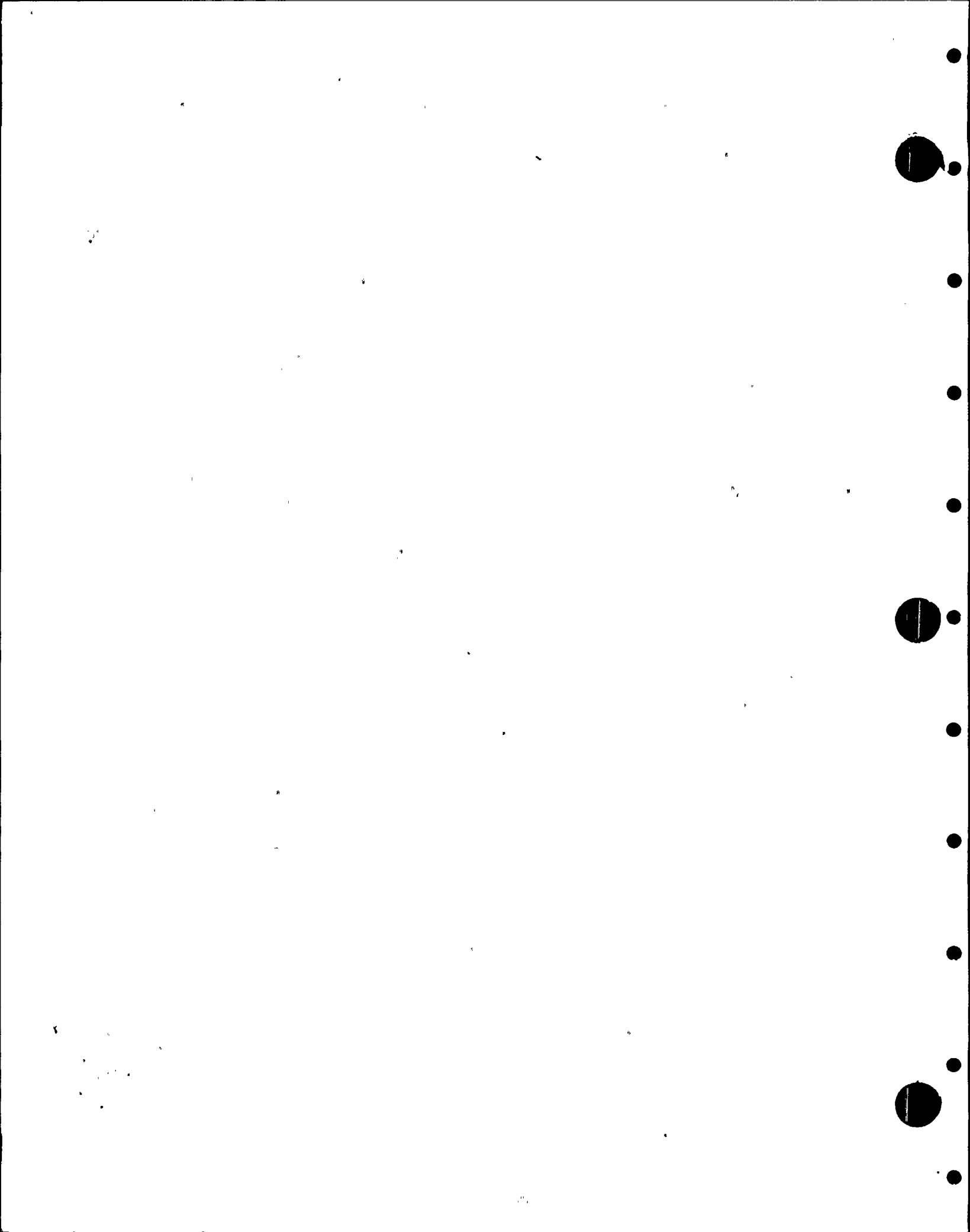


TABLE OF CONTENTS

| | Page |
|-------------------------------|------|
| Cover Page and Approvals..... | i |
| Table of Contents..... | ii |
| Examination Results..... | 1 |
| Repairs/Replacements..... | 7 |

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:

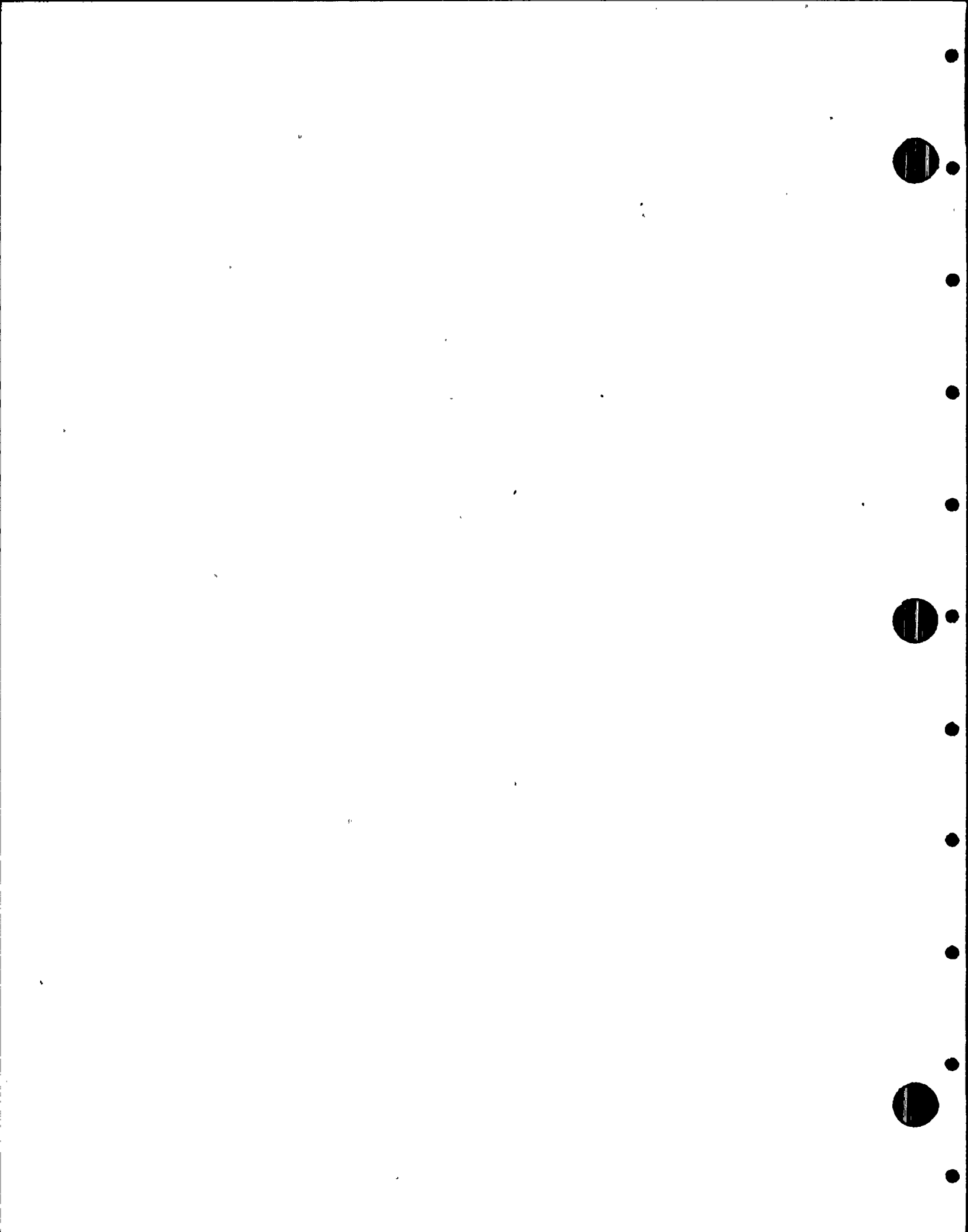
| <u>Inspection Period</u> | <u>Refueling¹ Outage</u> | <u>From</u> | <u>To</u> |
|------------------------------|---|-----------------|-----------------|
| 1 | | <u>12/13/84</u> | <u>09/15/85</u> |
| | RF86A (R1) | 03/31/86 | 06/10/86 |
| | RF87A (R2) | 04/13/87 | 06/25/87 |
| | RF88A (R3) | 05/02/88 | 06/27/88 |
| 2 | | <u>09/16/88</u> | <u>09/13/91</u> |
| | RF89A (R4) | 04/28/89 | 06/30/89 |
| | RF90A (R5) | 04/21/90 | 08/07/90 |
| | RF91A (R6) | 04/15/91 | 06/15/91 |
| 3 | | <u>09/14/91</u> | <u>12/13/94</u> |
| | RF92A (R7) | 04/15/92 | 06/15/92 |
| | RF93A (R8) | 04/15/93 | 06/15/93 |
| | RF94A (R9) | 04/15/94 | 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> | <u>Manufacturer</u> | <u>Serial Number</u> | <u>National Board No.</u> |
|------------------|---|----------------------|---------------------------|
| 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 |

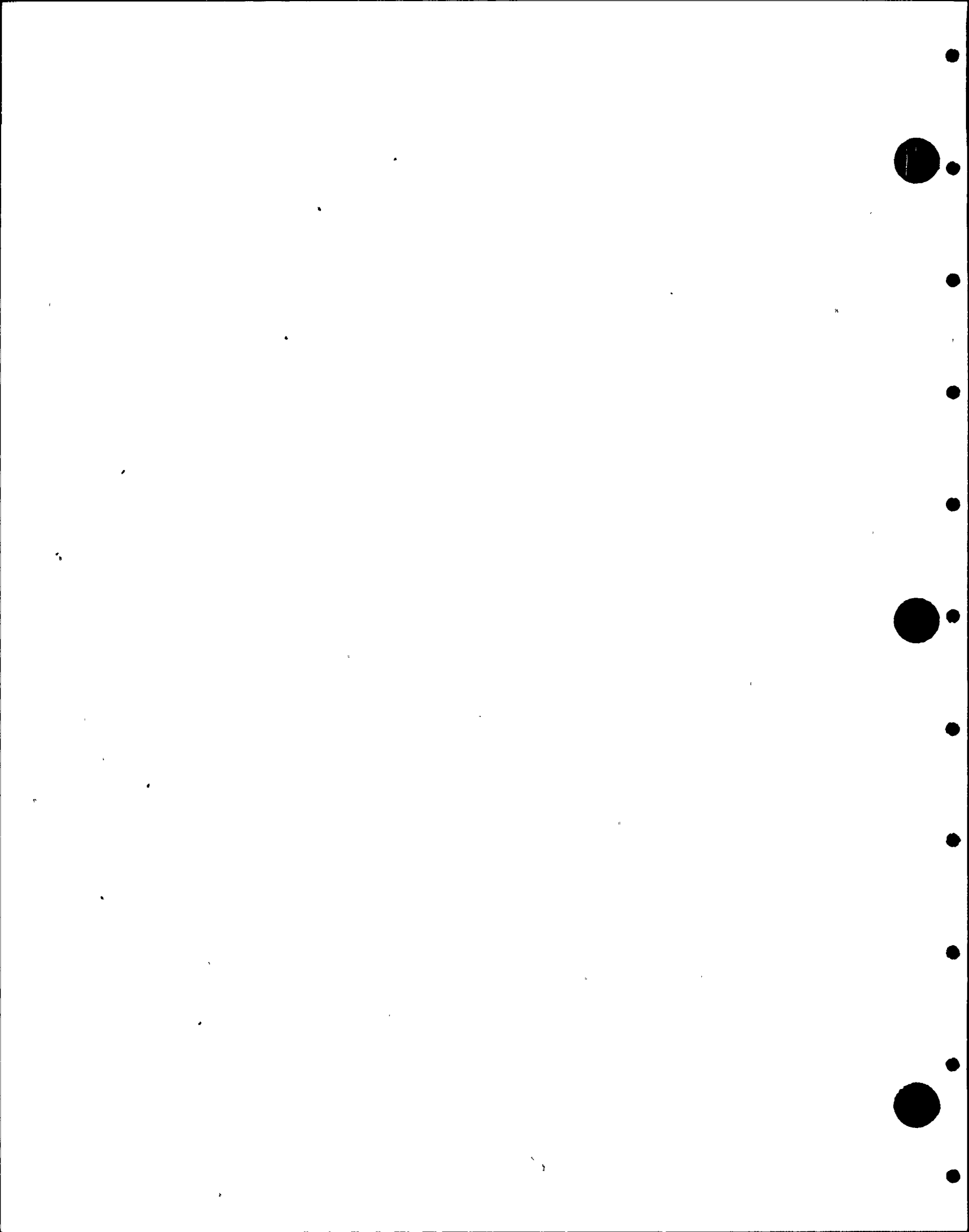
The following number of components were examined during RF90A:

| | TYPE OF EXAMINATION PERFORMED ¹ | | | |
|-------------------------|--|--------------|-----------------|----------------|
| | <u>UT</u> | <u>PT/MT</u> | <u>VT</u> | <u>TESTING</u> |
| <u>CODE CLASS 1</u> | | | | |
| Piping Welds | 67 | 51 | | |
| Welded Attachments | | 4 | | |
| RPV Nozzle Inner Radius | 1 | | | |
| RPV Welds | 8 | | | |
| Bolting | 22 | 22 | 72 ² | |
| Valves | 6 | | | |
| Component Supports | | | 61 | |
| <u>CODE CLASS 2</u> | | | | |
| Piping Welds | 22 | 21 | | |
| Component Supports | | | 76 | |
| <u>CODE CLASS 3</u> | | | | |
| Welded Attachments | | | 1 | |
| Component Supports | | | 40 | |
| <u>TESTING</u> | | | | |
| 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.



RPV EXAMINATIONS

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>Volume not Examined</u> | | |
|----------------------------|------------|------------|
| <u>Item</u> | <u>45°</u> | <u>60°</u> |
| N3-108-MS | 13.2% | 9.6% |
| N3-252 MS | 13.2% | 9.6% |
| N3-288 MS | 13.2% | 9.6% |

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. The 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 reworked. 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

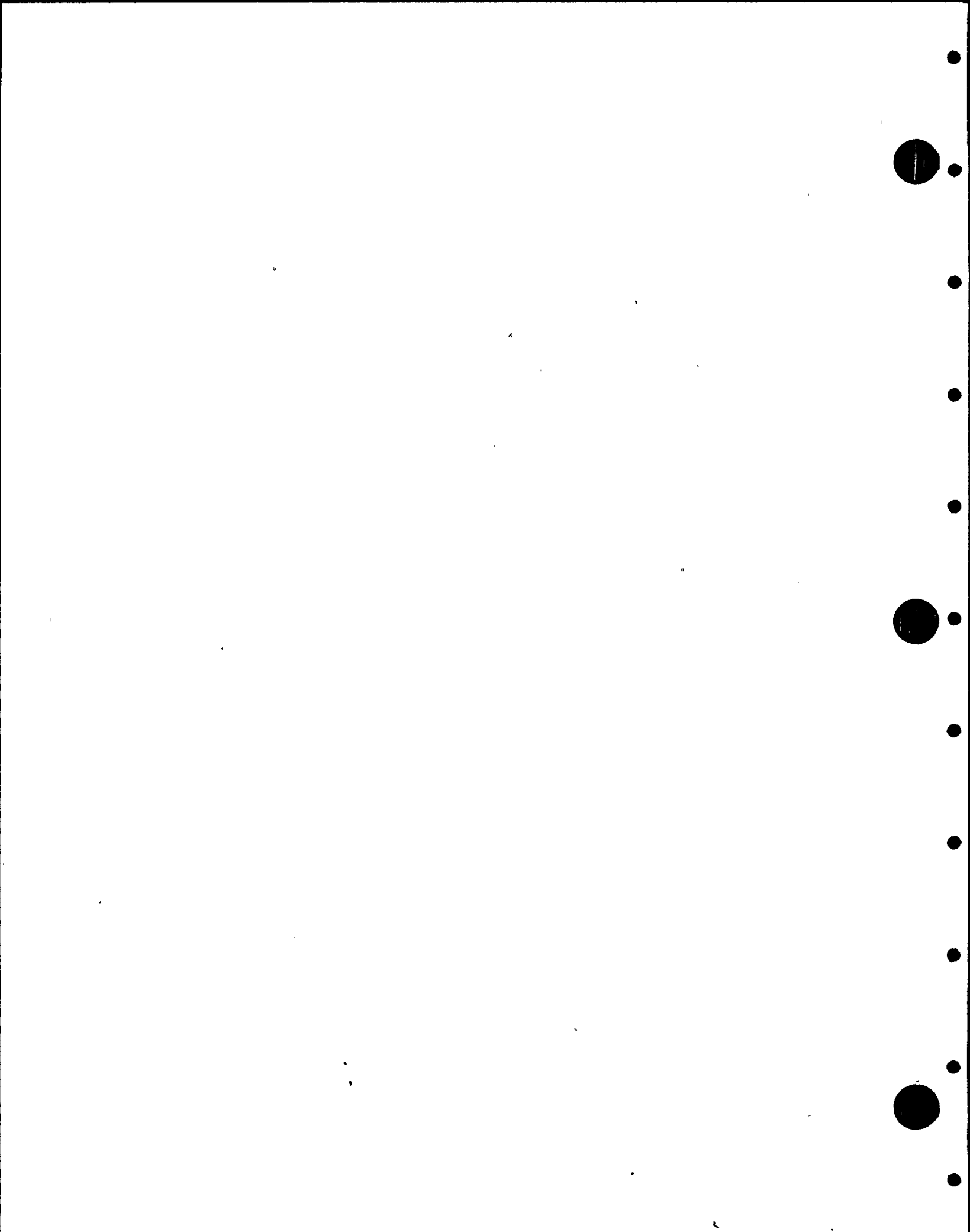
An initial sample of 37 snubbers was selected from the WNP-2 general population of 675 safety-related snubbers. These snubbers were randomly selected by computer sub-routine, which is part of the Snubber Test and Examination Program (STEP). The selected snubbers were then reviewed to determine if the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



REPAIRS/REPLACEMENTS

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.

TABLE I
SIGNIFICANT INDICATIONS

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

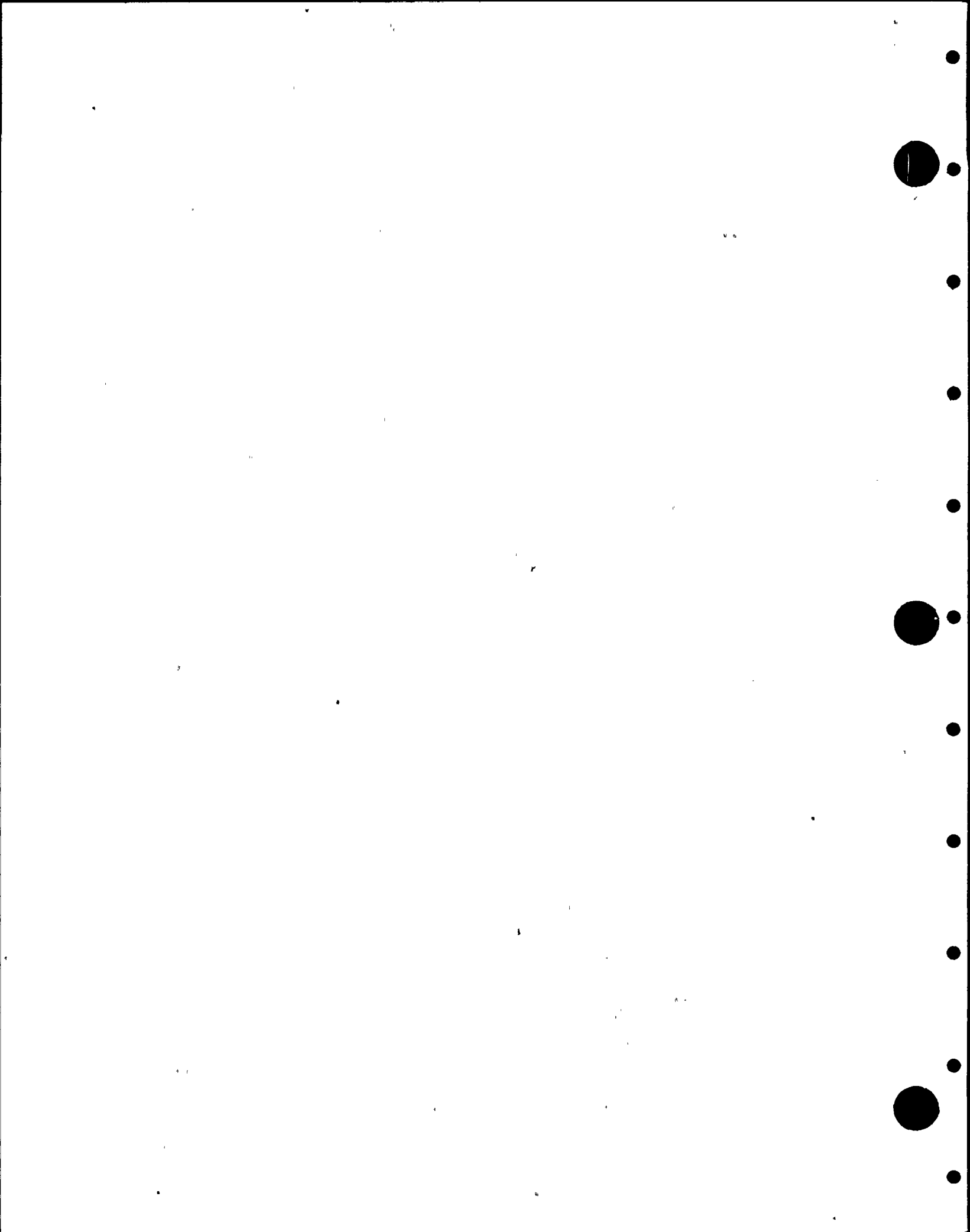


TABLE II
EXAMINATIONS COMPLETED DURING
OUTAGE RF90A

| 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-IR @ 252 | RPV-101 | VOL | 19900427 |
| | N3-288 | MS NZ-V @ 288 | RPV-101 | VOL | 19900426 |
| | N3-288-IR | MS NZ-IR @ 288 | RPV-101 | VOL | 19900427 |
| | N4-270-IR | FW NZ-IR @ 270 | RPV-101 | VOL | 19900502 |
| | N4-270-NB | FW NZ BORE @270 | 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)BE-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 |

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 | 19900516 |
| | 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 |

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 | | | |
| B-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 | VT-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 | |

TABLE II
EXAMINATIONS COMPLETED DURING
OUTAGE RF90A

| CODE CATEGORY | IDENTIFICATION NO. | DESCRIPTION | ISI DRAWING | METHOD | EXAM. DATE |
|---------------|-----------------------|-----------------|-------------|--------|------------|
| B-G-2 | CRD HOUSING 38-19 BLT | CRD HOUSING BLT | RPV-102 | VT-1 | 19900519 |
| | CRD HOUSING 06-15 BLT | CRD HOUSING BLT | RPV-102 | VT-1 | 19900504 |
| | CRD HOUSING 14-11 BLT | CRD HOUSING BLT | RPV-102 | VT-1 | 19900505 |
| | CRD HOUSING 34-11 BLT | CRD HOUSING BLT | RPV-102 | VT-1 | 19900519 |
| | CRD HOUSING 18-03 BLT | CRD HOUSING BLT | RPV-102 | VT-1 | 19900519 |
| | CRD HOUSING 26-03 BLT | CRD HOUSING BLT | RPV-102 | VT-1 | 19900519 |
| | CRD HOUSING 34-03 BLT | CRD HOUSING BLT | RPV-102 | VT-1 | 19900511 |
| | CRD HOUSING 42-03 BLT | CRD HOUSING BLT | RPV-102 | VT-1 | 19900511 |
| | RCIC-V-64-BLT | VALVE BOLTING | RCIC-101 | VT-1 | 19900515 |

COUNT = 37

| | | | | | |
|-----|---------------|--------------|----------|-----|----------|
| B-J | 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 |
| | 26MS(1)C-3 | PIPE TO EL | MS-103 | SUR | 19900430 |
| | 26MS(1)C-3LDI | EL SEAM | MS-103 | VOL | 19900430 |
| | 26MS(1)C-3LDT | EL SEAM | MS-103 | SUR | 19900430 |
| | 26MS(1)C-3L00 | EL SEAM | MS-103 | VOL | 19900430 |
| | 26MS(1)C-3L00 | 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-3LDT | EL SEAM | MS-104 | VOL | 19900430 |
| | 26MS(1)D-3LDT | EL SEAM | MS-104 | SUR | 19900430 |
| | 26MS(1)D-3L00 | EL SEAM | MS-104 | VOL | 19900430 |
| | 26MS(1)D-3L00 | 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 |

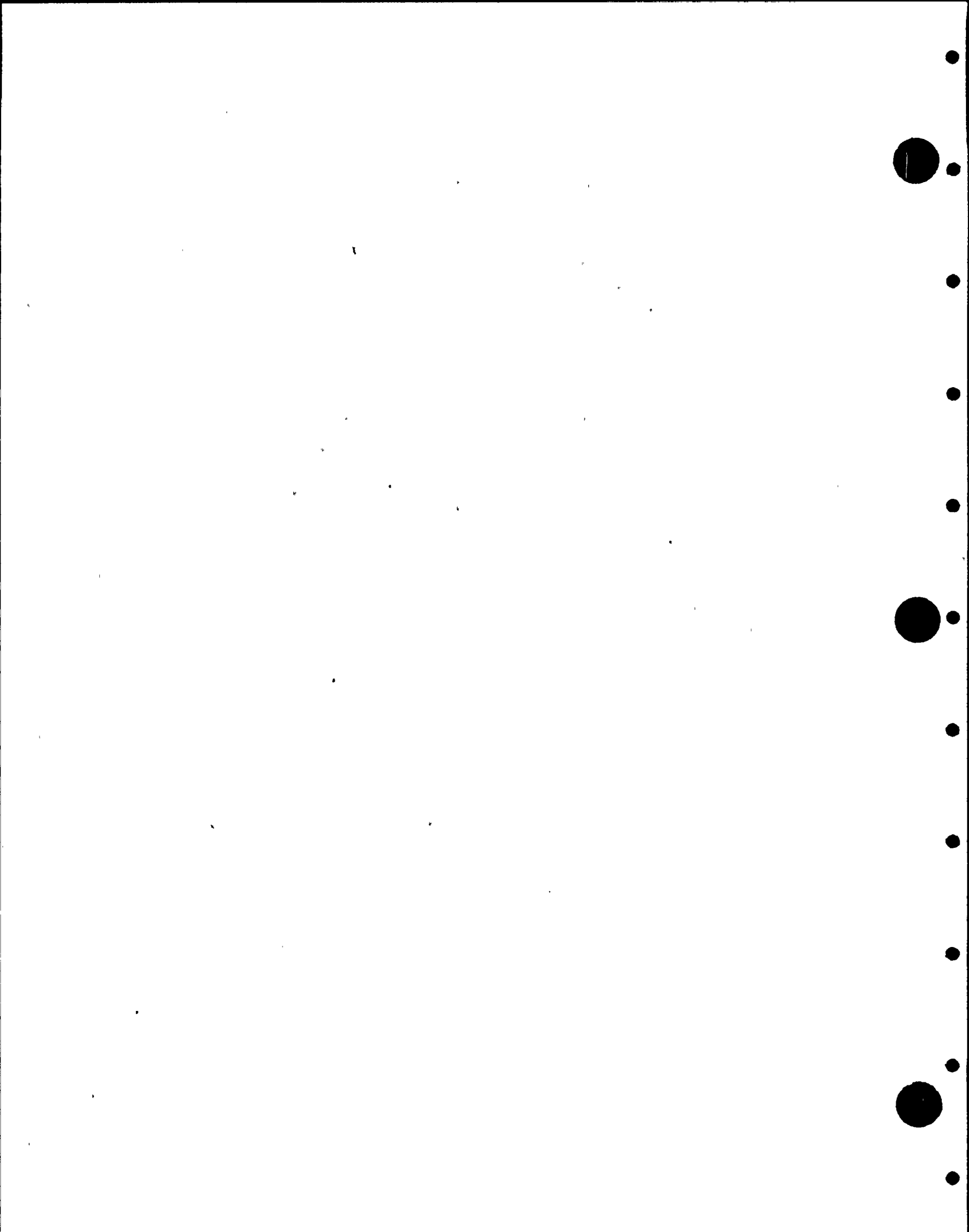


TABLE II
EXAMINATIONS COMPLETED DURING
OUTAGE RF90A

| 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 |
| | 26MS(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 |
| | 12RFW(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 |
| | 24RFW(1)B-12 | EL TO PIPE | RFW-102 | VOL | 19900516 |
| | 24RFW(1)B-12 | EL TO PIPE | RFW-102 | SUR | 19900516 |
| | 12RFW(1)BD-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 |
| | 12RFW(1)BD-7 | EL TO PIPE | RFW-102 | SUR | 19900521 |
| | 12RFW(1)BD-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 |

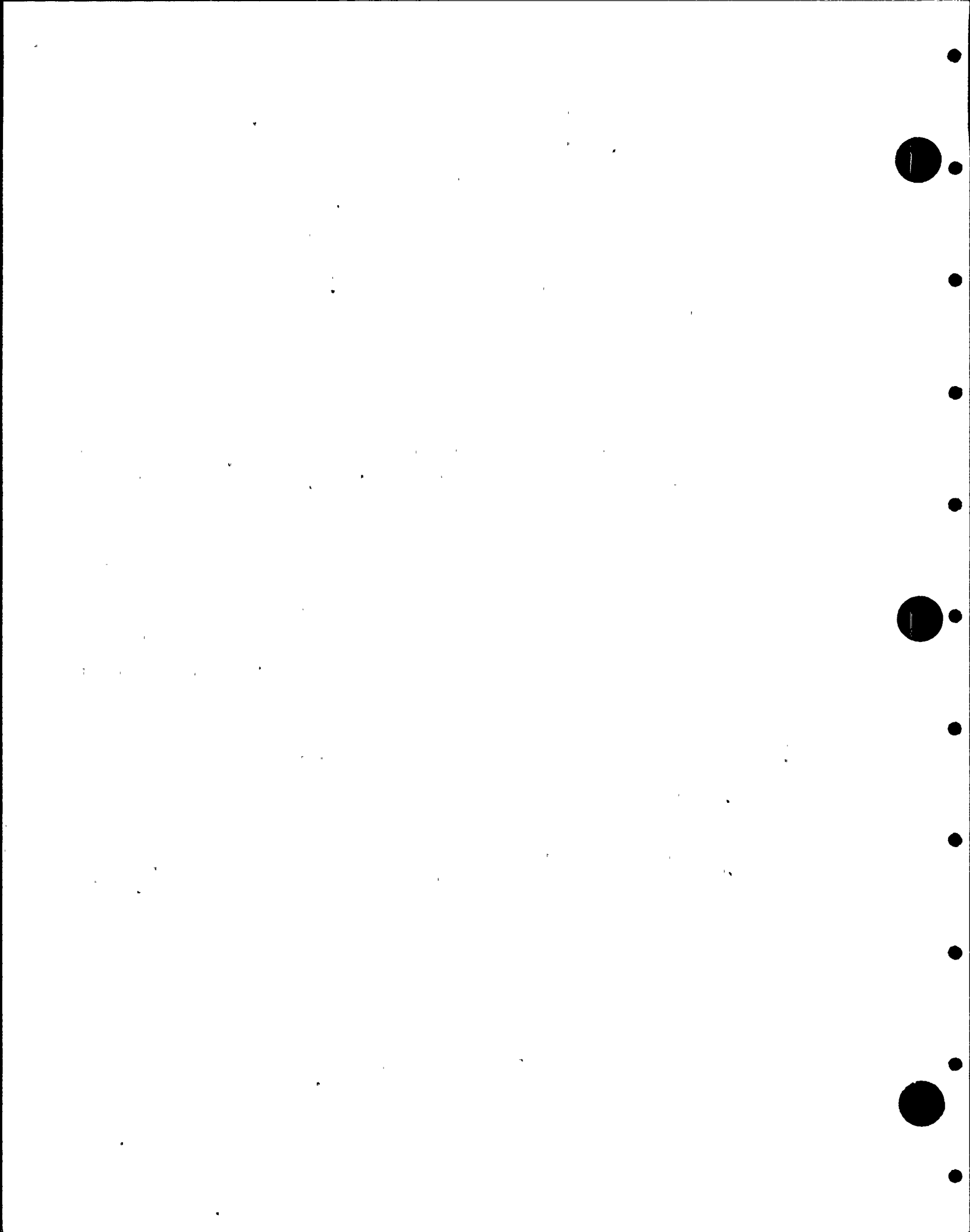


TABLE II
EXAMINATIONS COMPLETED DURING
OUTAGE RF90A

| CODE CATEGORY | IDENTIFICATION NO. | DESCRIPTION | ISI DRAWING | METHOD | EXAM. DATE |
|---------------|--------------------------|-----------------|-------------|--------|------------|
| B-J | 6RFW(11)-7 | EL TO PIPE | RFW-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 | RFW-103 | SUR | 19900517 |
| | 4RFW(11)B-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 | PIPE TO SWL | RRC-101 | SUR | 19900501 |
| | 16RRC(1)A-2 | PIPE TO CAP | RRC-101 | VOL | 19900503 |
| | 16RRC(1)A-3 | CROSS TO PIPE | RRC-101 | VOL | 19900503 |
| | 16RRC(1)A-3/12RRC(1)-N2B | PIPE TO SWL | RRC-101 | VOL | 19900503 |
| | 16RRC(1)A-3/12RRC(1)-N2B | PIPE TO SWL | RRC-101 | SUR | 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 |

TABLE II
EXAMINATIONS COMPLETED DURING
OUTAGE RF90A

| 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 | |
| | 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)-2LDO | EL SEAM | RRC-105 | VOL | 19900504 | |
| | 20RRC(6)-2LDO | EL SEAM | RRC-105 | SUR | 19900504 | |
| | COUNT = | | 112 | | | |
| | B-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 | |

TABLE II
EXAMINATIONS COMPLETED DURING
OUTAGE RF90A

| CODE CATEGORY | IDENTIFICATION NO. | DESCRIPTION | ISI DRAWING | METHOD | EXAM. DATE |
|---------------|--------------------|---------------|-------------|--------|------------|
| | RRC-V-60A-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-PB-101(L) | LK PRES BNDRY | HPCS-101 | VT-2 | 19900804 |
| | LPCS-PB-101(L) | LK PRES BNDRY | LPCS-101 | VT-2 | 19900804 |
| | RHR-PB-101(L) | LK PRES BNDRY | RHR-101 | VT-2 | 19900804 |
| | RHR-PB-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-PB-106(L) | LK PRES BNDRY | RHR-106 | VT-2 | 19900804 |
| | 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-PB-105(L) | LK PRES BNDRY | MS-105 | VT-2 | 19900804 |
| | MS-PB-106(L) | LK PRES BNDRY | MS-106 | VT-2 | 19900804 |
| | RFW-PB-101(L) | LK PRES BNDRY | RFW-101 | VT-2 | 19900804 |
| | RFW-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 |

* Limited to two surv. specimen holders and RPV top head steam dryer holddown lugs (4).

TABLE II
EXAMINATIONS COMPLETED DURING
OUTAGE RF90A

| 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-PB-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 |

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 TEE | 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 | | | |
| IWF | RCIC-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 | VT3H | 19900423 | |
| | RCIC-934N | PSA-3 SNUBBER | RCIC-102 | VT3H | 19900423 | |
| | RCIC-933N | PSA-3 SNUBBER | RCIC-102 | VT3H | 19900423 | |

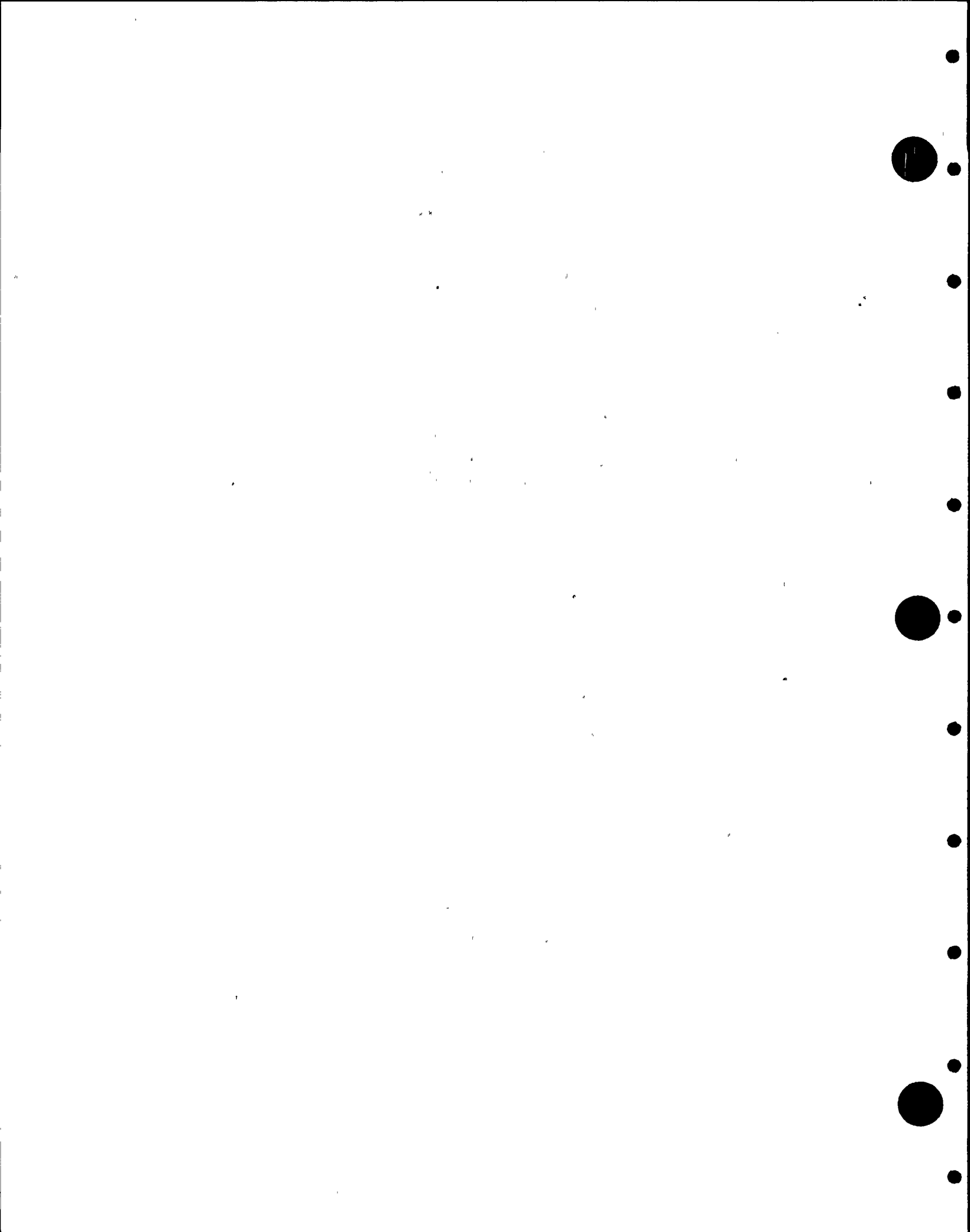


TABLE II
EXAMINATIONS COMPLETED DURING
OUTAGE RF90A

| CODE CATEGORY | IDENTIFICATION NO. | DESCRIPTION | ISI DRAWING | METHOD | EXAM. DATE |
|---------------|--------------------|---------------|-------------|--------|------------|
| IWF | RCIC-932N | PSA-1 SN(2) | RCIC-102 | VT3H | 19900423 |
| | RCIC-128 | PSA-3 SNUBBER | RCIC-102 | VT3H | 19900423 |
| | RCIC-129 | SPRING | RCIC-102 | VT3H | 19900423 |
| | RCIC-955N | BOX | RCIC-205 | VT3H | 19900427 |
| | RCIC-954N | BOX | RCIC-205 | VT3H | 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 |
| | RCIC-88 | BOX | RCIC-205 | VT3H | 19900428 |
| | RCIC-90 | STRUT | RCIC-205 | VT3H | 19900428 |
| | RCIC-91 | ANCHOR | RCIC-205 | VT3H | 19900428 |
| | RCIC-93 | BOX | RCIC-205 | VT3H | 19900428 |
| | RCIC-95 | BOX | 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 | RIGID | 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 |
| | 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 | BOX | LPCS-202 | VT3H | 19900417 |
| | LPCS-11 | SPRING | LPCS-202 | VT3H | 19900417 |



TABLE II
EXAMINATIONS COMPLETED DURING
OUTAGE RF90A

| CODE CATEGORY | IDENTIFICATION NO. | DESCRIPTION | ISI DRAWING | METHOD | EXAM. DATE (Y/M/) |
|---------------|--------------------|----------------|-------------|--------|-------------------|
| IWF | LPCS-12 | BOX | LPCS-202 | VT3H | 19900417 |
| | LPCS-14 | ANCHOR | LPCS-202 | VT3H | 19900417 |
| | LPCS-17 | BOX | LPCS-202 | VT3H | 19900417 |
| | LPCS-20 | STRUT | LPCS-202 | VT3H | 19900418 |
| | LPCS-41 | STRUT | LPCS-202 | VT3H | 19900418 |
| | LPCS-42 | BOX | LPCS-202 | VT3H | 19900418 |
| | LPCS-22 | RIGID | LPCS-202 | VT3H | 19900418 |
| | LPCS-23 | SPRING | LPCS-202 | VT3H | 19900418 |
| | LPCS-24 | BOX | LPCS-202 | VT3H | 19900418 |
| | LPCS-25 | SPRING | LPCS-202 | VT3H | 19900418 |
| | LPCS-903N | ANCHOR | LPCS-202 | VT3H | 19900418 |
| | RHR-601 | STRUT | RHR-201 | VT3H | 19900430 |
| | RHR-600 | STRUT | RHR-201 | VT3H | 19900430 |
| | RHR-598 | SPRING | RHR-201 | VT3H | 19900430 |
| | RHR-237 | STRUT | RHR-201 | VT3H | 19900430 |
| | RHR-234 | BOX | RHR-201 | VT3H | 19900430 |
| | RHR-1004N | STRUT | RHR-201 | VT3H | 19900430 |
| | RHR-235 | PSA-10 SNUBBER | RHR-201 | VT3H | 19900430 |
| | RHR-350 | SPRING | RHR-201 | VT3H | 19900430 |
| | RHR-965N | ANCHOR | RHR-201 | VT3H | 19900430 |
| | RHR-1019N | STRUT | RHR-201 | VT3H | 19900430 |
| | RHR-240 | BOX | RHR-201 | VT3H | 19900516 |
| | RHR-964N | ANCHOR | RHR-201 | VT3H | 19900516 |
| | MS-HC-1 | SPRING (2) | MS-103 | VT3H | 19900521 |
| | MS-SC-6 | PSA-35 SNUBBER | MS-103 | VT3H | 19900521 |
| | MS-SC-7 | PSA-35 SNUBBER | MS-103 | VT3H | 19900521 |
| | MS-SC-5 | PSA-35 SNUBBER | MS-103 | VT3H | 19900502 |
| | MS-SC-8 | PSA-35 SNUBBER | MS-103 | VT3H | 19900502 |
| | MS-HC-2 | SPRING | MS-103 | VT3H | 19900521 |
| | MS-SD-6 | PSA-35 SNUBBER | MS-104 | VT3H | 19900502 |
| | MS-SD-7 | PSA-35 SNUBBER | MS-104 | VT3H | 19900521 |
| | MS-SD-5 | PSA-35 SNUBBER | MS-104 | VT3H | 19900502 |
| | MS-SD-9 | PSA-35 SNUBBER | MS-104 | VT3H | 19900507 |
| | MS-260 | SPRING | MS-105 | VT3H | 19900502 |

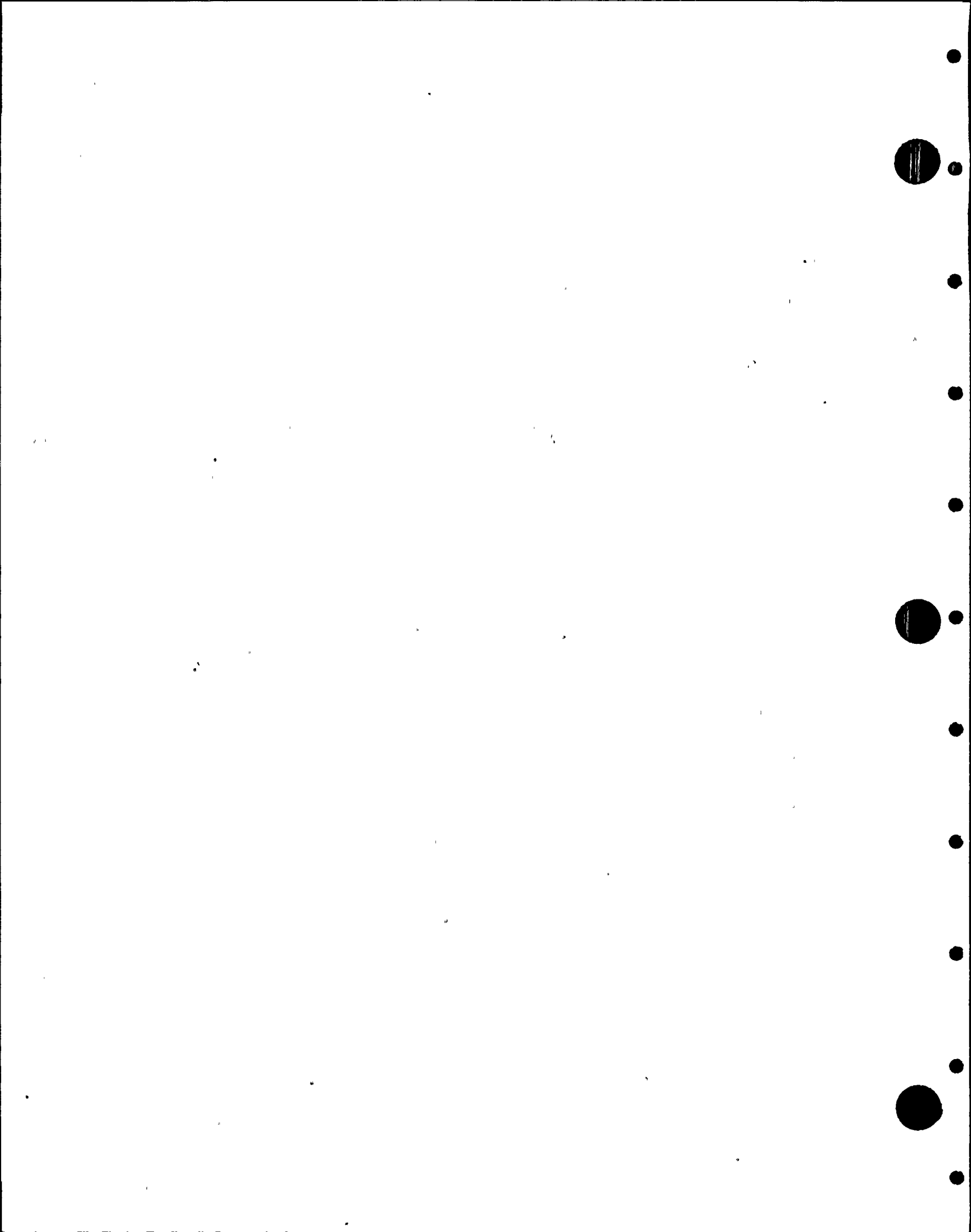


TABLE II
EXAMINATIONS COMPLETED DURING
OUTAGE RF90A

| 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 | 19900430 |
| | MS-24 | SPRING | MS-203 | VT3H | 19900430 |
| | MS-55 | SPRING (2) | MS-204 | VT3H | 19900512 |
| | RFW-152 | SPRING | RFW-101 | VT3H | 19900514 |
| | RFW-151 | PSA-35 SNUBBER | RFW-101 | VT3H | 19900514 |
| | RFW-929N | PSA-10 SNUBBER | RFW-101 | VT3H | 19900514 |
| | RFW-159 | SPRING | RFW-101 | VT3H | 19900522 |
| | RFW-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-102 | VT3H | 19900514 |
| | RFW-915N | PSA-10 SNUBBER | RFW-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 |

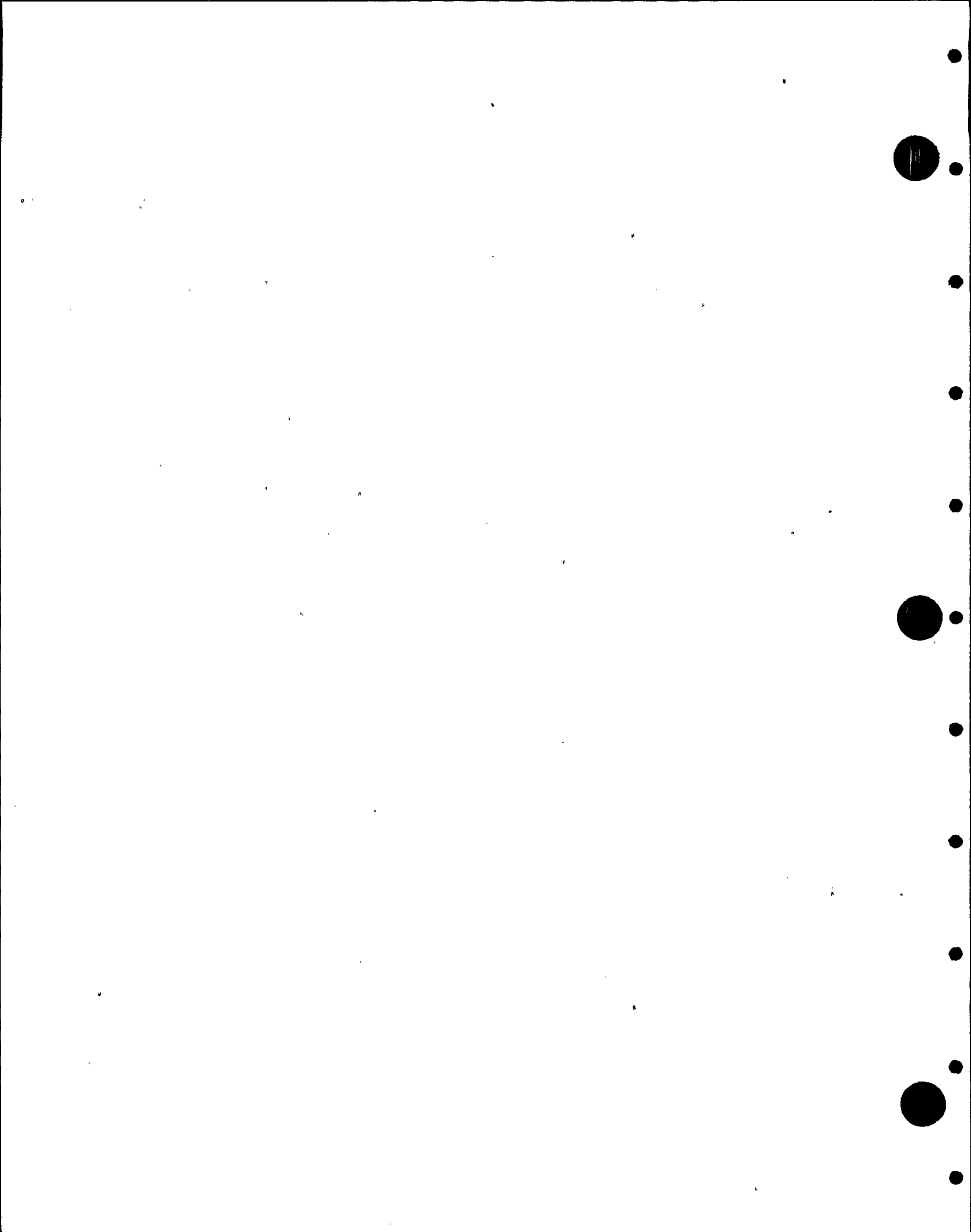


TABLE II
EXAMINATIONS COMPLETED DURING
OUTAGE RF90A

| CODE CATEGORY | IDENTIFICATION NO. | DESCRIPTION | ISI 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 | BOX | 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 | BOX | 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 | BOX | 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 |
| | 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 |

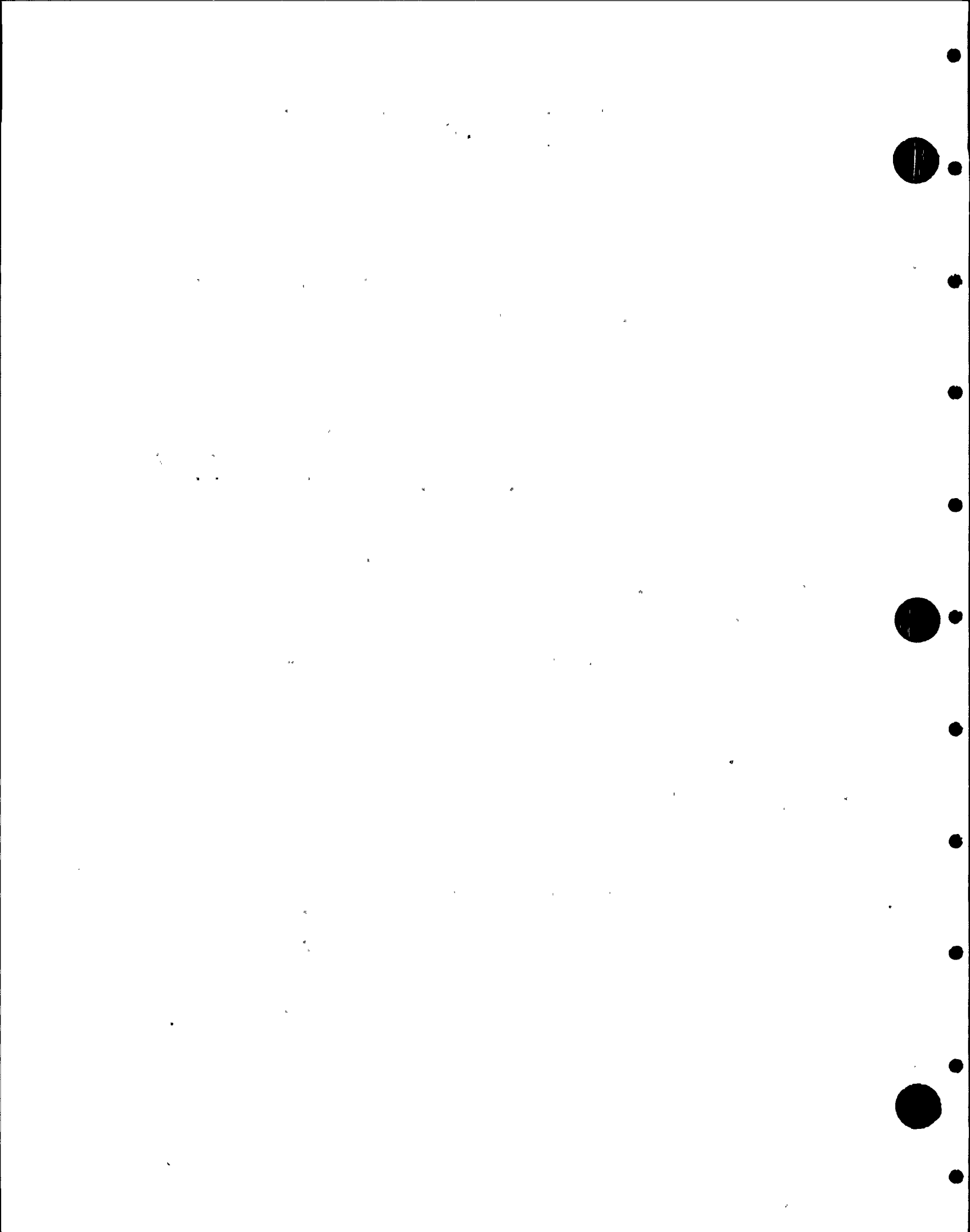


TABLE II
EXAMINATIONS COMPLETED DURING
OUTAGE RF90A

| 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 | BOX | 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 | VT-1 | 19900503 |
|-----|------------------|-----------------|---------|------|----------|



TABLE II
EXAMINATIONS COMPLETED DURING
OUTAGE RF90A

| CODE CATEGORY | IDENTIFICATION NO. | DESCRIPTION | ISI 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 | NISC | VOL | 19900518 |

COUNT = 4

TOTAL COUNT = 474

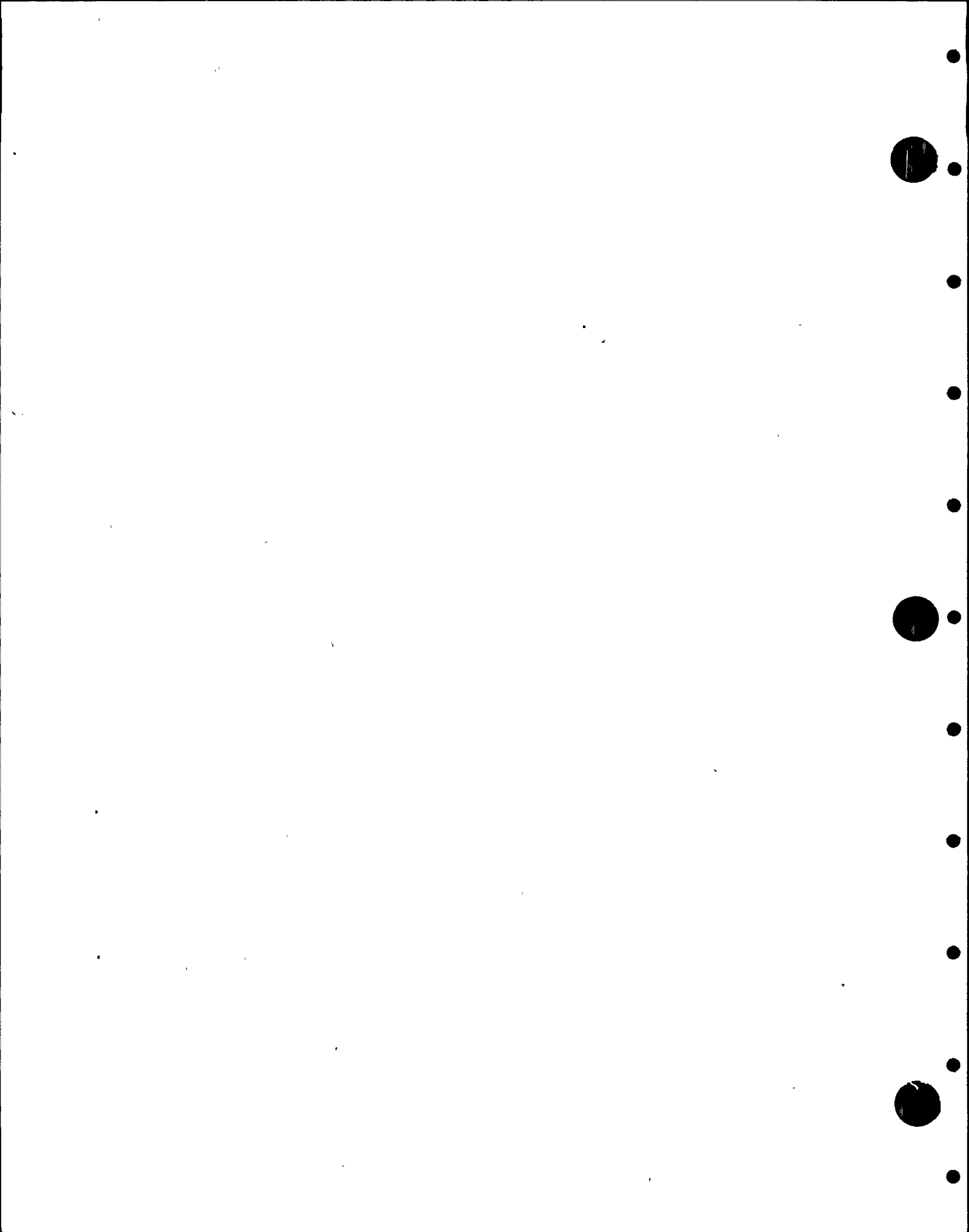


TABLE III
 SNUBBER TEST SUMMARY

| 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 | | NO |
| HD-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 |
| MS-145 PSA-10 SNUBBER 580 | 19900425 | ACC | 14556 | NO |

* 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.

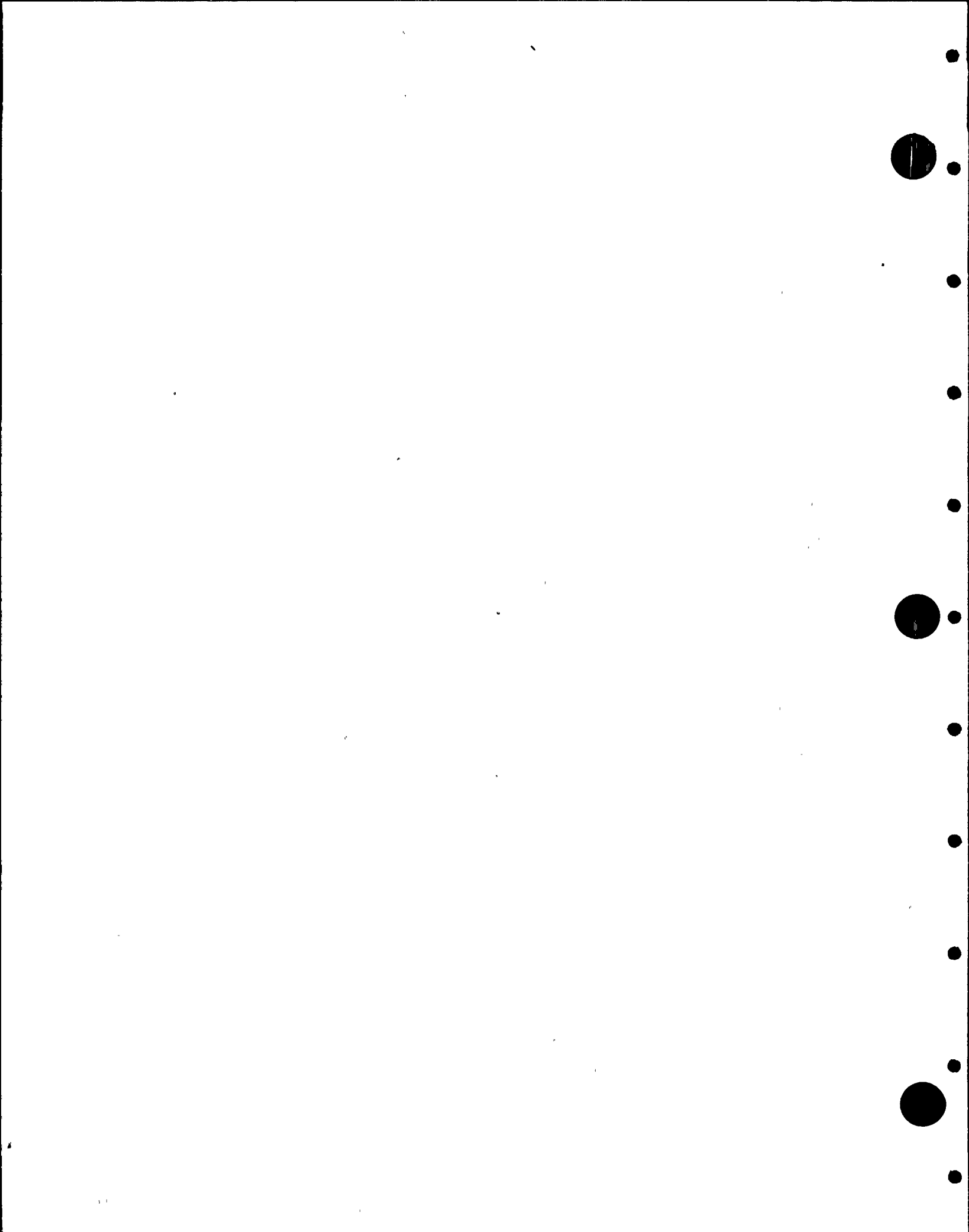


TABLE III
 SNUBBER TEST SUMMARY

| HANGER MARK NO. (& POSITION) DESCRIPTION & SERIAL NO. | TEST DATE YR/PO/DA | TEST RESULT ACC/REJ | REPLACEMENT SERIAL NO. | RETEST NEXT OUTAGE: Y/N |
|--|-----------------------|------------------------|---------------------------|----------------------------|
| MS-147 NORTH PSA-35 SN(2) 6543 | 19900425 | ACC | | NO |
| MS-256 TOP PSA-3 SN(2) 4444 | 19900423 | REJ | DELETED | NO |
| MS-2619-13 PSA-1 SNUBBER 625 | 19900427 | ACC | | NO |
| MS-96 TOP PSA-10 SN(2) 772 | 19900425 | ACC | | NO |
| MS-96 BOTTOM PSA-10 SN(2) 286 | 19900425 | ACC | | NO |
| MS-998N NORTH PSA-10 SN(2) 710 | 19900425 | ACC | | NO |
| MS-SA-7 PSA-35 SNUBBER 4209 | 19900426 | ACC | STRUT | NO |
| MS-SB-1 PSA-100 SNUBBER 604 | 19900427 | ACC | | NO |
| MS-SD-4 PSA-35 SNUBBER 4148 | 19900426 | ACC | | NO |
| MSLC-2B21-12 BOTTOM PSA-1/4 SN(2) 376 | 19900423 | ACC | | NO |
| MSRV-1B-3 PSA-10 SNUBBER 4864 | 19900427 | ACC | | NO |

TABLE III
 SNUBBER TEST SUMMARY

| HANGER MARK NO. (& POSITION) DESCRIPTION & SERIAL NO. | TEST DATE YR/MO/DA | TEST RESULT ACC/REJ | REPLACEMENT SERIAL NO. | 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-2D-6 PSA-10 SNUBBER 9910 | 19900427 | ACC | | NO |
| MSRV-2D-1 PSA-10 SNUBBER 287 | 19900427 | ACC | | NO |
| MSRV-3B-4 PSA-10 SNUBBER 274 | 19900427 | ACC | | NO |
| MSRV-4C-8 PSA-35 SNUBBER 10736 | 19900426 | ACC | | NO |
| MSRV-5B-2 PSA-35 SNUBBER 6205 | 19900426 | ACC | | NO |
| MSRV-5B-4 PSA-10 SNUBBER 13054 | 19900427 | ACC | | NO |
| RCIC-1490-13 PSA-1/2 SNUBBER 2523 | 19900423 | ACC | | NO |
| RCIC-1C-1 PSA-1 SNUBBER 359 | 19900427 | ACC | | NO |
| KCIC-2562-25 PSA-1/2 SNUBBER 2462 | 19900426 | ACC | | NO |

TABLE III
 SNUBBER TEST SUMMARY

| HANGER MARK NO. (& POSITION) DESCRIPTION & SERIAL NO. | TEST DATE YR/MO/DA | TEST RESULT ACC/REJ | REPLACEMENT SERIAL NO. | RETEST NEXT OUTAGE: Y/N |
|--|-----------------------|------------------------|---------------------------|----------------------------|
| RFE-154 SOUTH PSA-10 SN(2) 9958 | 19900427 | ACC | DELETED | NO |
| RHR-206 PSA-1 SNUBBER 610 | 19900423 | ACC | | NO |
| RHR-277 PSA-3 SNUBBER 509 | 19900424 | ACC | | NO |
| RHR-383 PSA-35 SNUBBER 70568** | 19900427 | ACC | 10568 | NO |
| RHR-387 PSA-10 SNUBBER 11867 | 19900427 | ACC | | NO |
| 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 | | NO |
| 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 | | NO |

** S/N corrected from 70568 to 10568



TABLE III
 SNUBBER TEST SUMMARY

| HANGER MARK NO. (& POSITION) DESCRIPTION & SERIAL NO. | TEST DATE YR/MO/DA | TEST RESULT ACC/REJ | REPLACEMENT SERIAL NO. | RETEST NEXT OUTAGE: Y/N |
|--|-----------------------|------------------------|---------------------------|----------------------------|
| 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 | | NO |
| RRC-SA-17 PSA-35 SNUBBER 4217 | 19900427 | ACC | | NO |

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

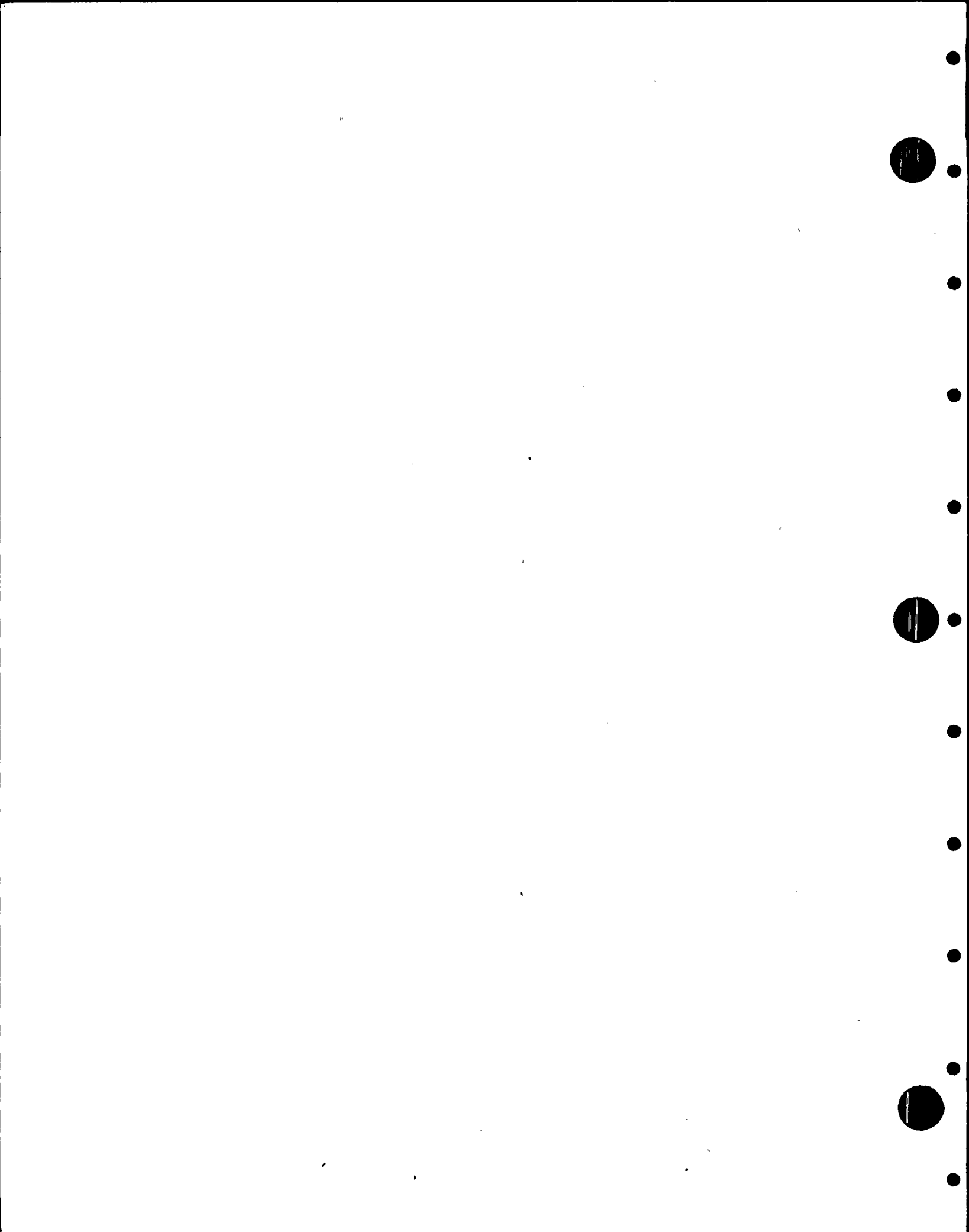


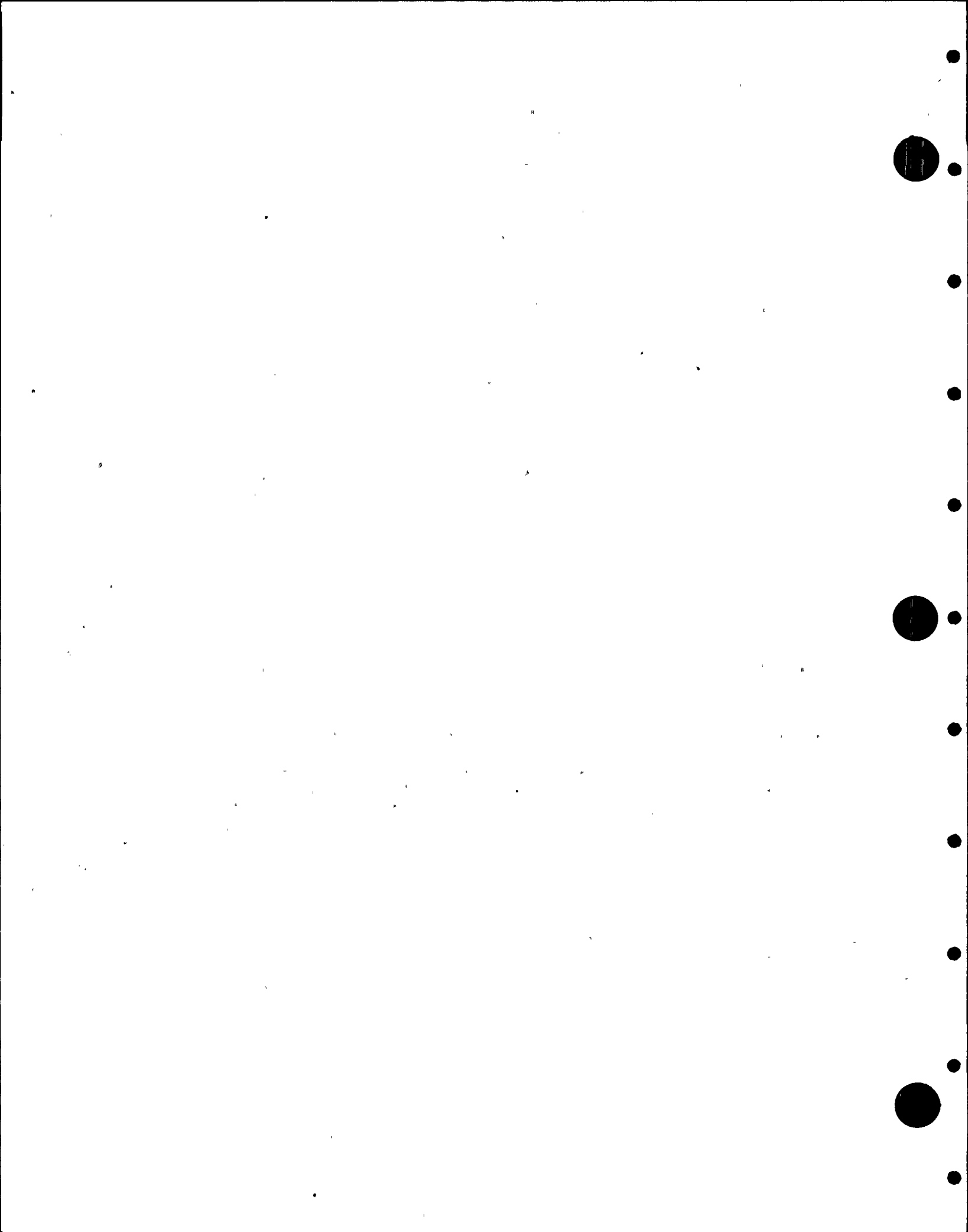
TABLE III
 SNUBBER TEST SUMMARY

| HANGER MARK NO. (& POSITION) DESCRIPTION & SERIAL NO. | TEST DATE YR/MO/DA | TEST RESULT ACC/REJ | 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 EA PSA-10 SN(4) 4869 | 19900426 | ACC | | NO |

TOTAL COUNT = 58

APPENDIX A

NIS-1 Owner's Data Report for Inservice Inspection



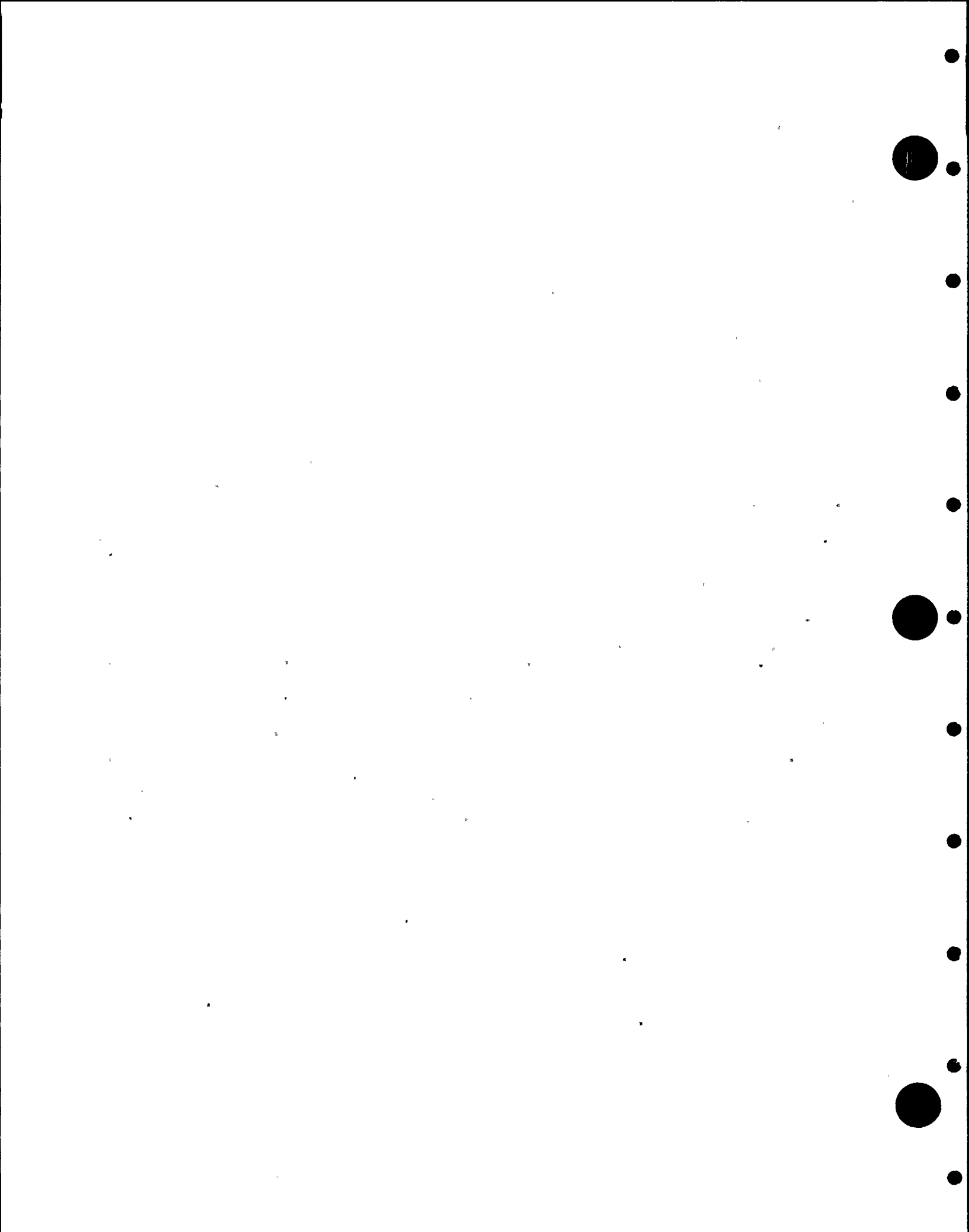
FORM NIS-1 OWNERS' DATA REPORT FOR INSERVICE INSPECTIONS

As required by the Provisions of the ASME Code Rules

1. Owner Washington Public Power Supply System
3000 George Washington Way, Richland, WA 99352
(Name and Address of Owner)
2. Plant WNP-2, Hanford Reservation, Benton County, Washington
(Name and Address of Plant)
3. Plant Unit WNP-2 4. Owner Certificate of Authorization (if required) N/A
5. Commercial Service Date 12/13/84 6. National Board Number for Unit N/A
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) The piping examined is included 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.



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 inspection interval have been completed. Ref. pgs. 5-19 for exam details.

11. Abstract of Conditions Noted. Ref. pgs. 3 and 4.

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 10-26 19 90 Signed WPPSS By JWBahn
Owner

Certificate of Authorization No. (if applicable) _____ Expiration 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 Washington and employed by Arkwright Mut. Ins. Co. of Norwood, Mass. 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.

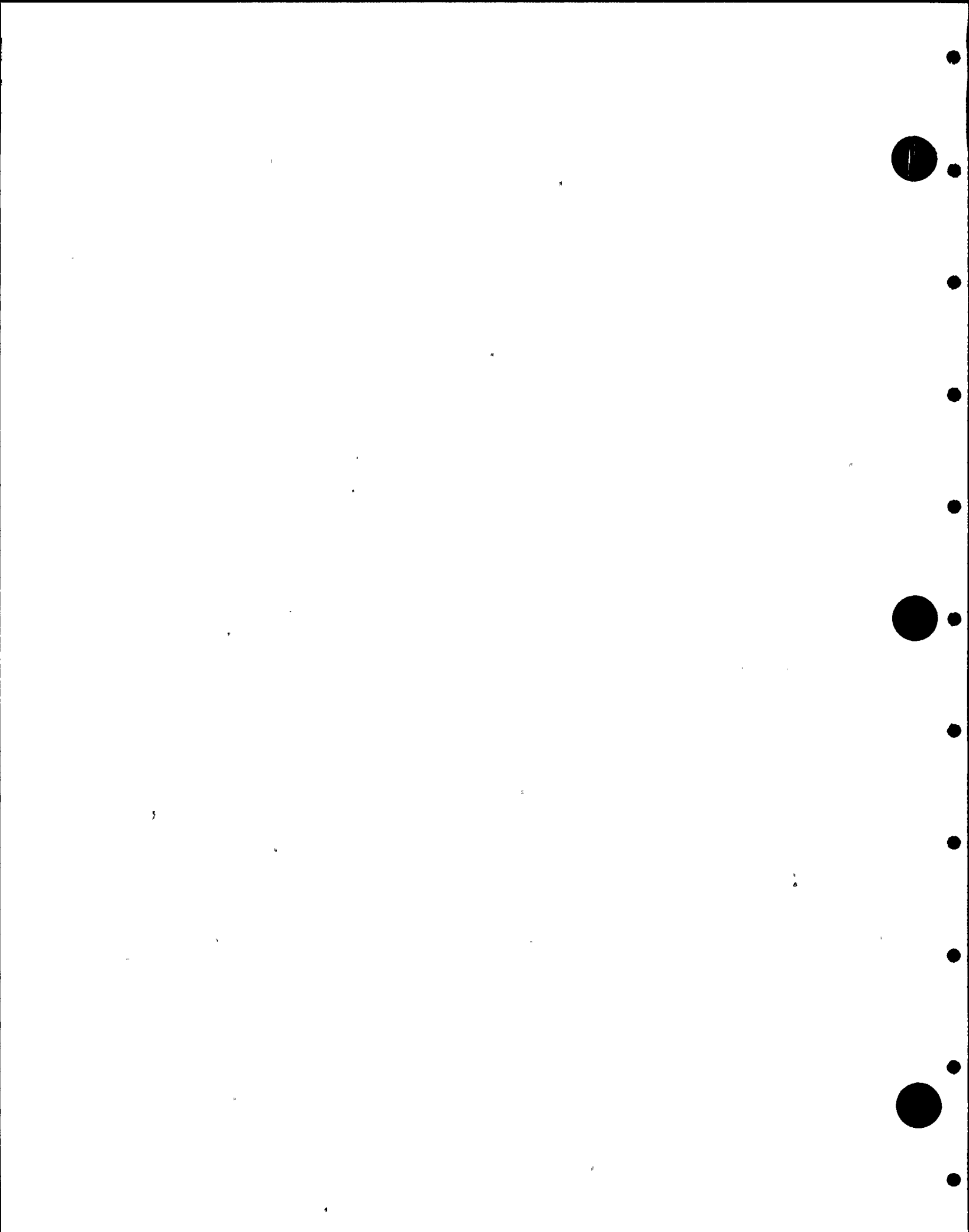
By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owners' Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury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

* Factory Mutual System

Date 10/26 19 90

Dan Loggans
Inspector's Signature

Commissions 9556 W
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

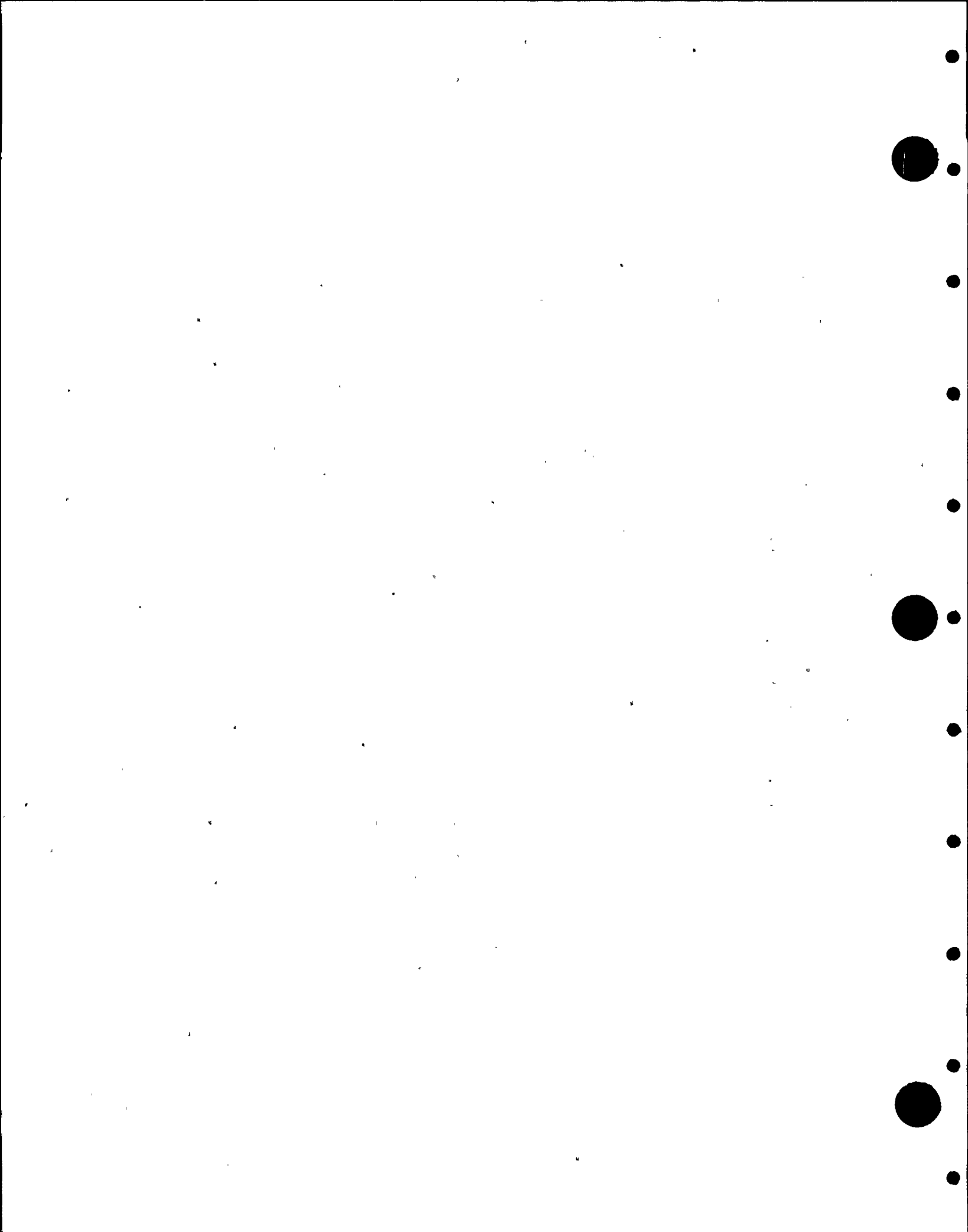
1. Owner: Washington Public Power Supply System
3000 George Washington Way
Richland, Washington 99352
2. Plant: WNP-2
Hanford Reservation
Benton County, Washington
3. Plant Unit: WNP-2
4. Owner Certificate of Authorization: N/A
5. Commercial Service Date: 12/13/1984
6. National Board Number for Unit: 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. |
|-------------------|--------------------|-----------------|----------|---------|-------------|
| B-D | N3-108 | MS NZ-V @ 108 | B3.90 | VOL | RPV-101 |
| | N3-108-IR | MS NZ-IR @ 108 | B3.100 | VOL | RPV-101 |
| | N3-252 | MS NZ-V @ 252 | B3.90 | VOL | RPV-101 |
| | N3-252-IR | MS NZ-IR @ 252 | B3.100 | VOL | RPV-101 |
| | N3-288 | MS NZ-V @ 288 | B3.90 | VOL | RPV-101 |
| | N3-288-IR | MS NZ-IR @ 288 | B3.100 | VOL | RPV-101 |
| | N4-270-IR | FW NZ-IR @ 270 | B3.100 | VOL | RPV-101 |
| | N4-270-NB | FW NZ BORE @270 | B3.100 | VOL | RPV-101 |
| B-F | 12RFW(1)BE-9 | SE EXT-SE STUB | B5.10 | VOL | RFW-102 |
| | 12RFW(1)BE-9 | SE EXT-SE STUB | B5.10 | SUR | RFW-102 |
| | 12RFW(1)BE-10 | SE STUB TO SE | B5.10 | 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 | B5.10 | SUR | RFW-102 |
| B-G-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 | B6.20 | 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 | B6.30 | SUR | RPV-101 |
| | RPV STUD 35-1-32A | RPV STUD | B6.20 | VOL | RPV-101 |
| | RPV STUD 35-1-32A | RPV STUD | B6.30 | SUR | RPV-101 |
| | RPV STUD 35-1-39A | RPV STUD | B6.20 | 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 35-1-53A | 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
 10. ABSTRACT OF EXAMINATIONS. LIST OF EXAMINATIONS:

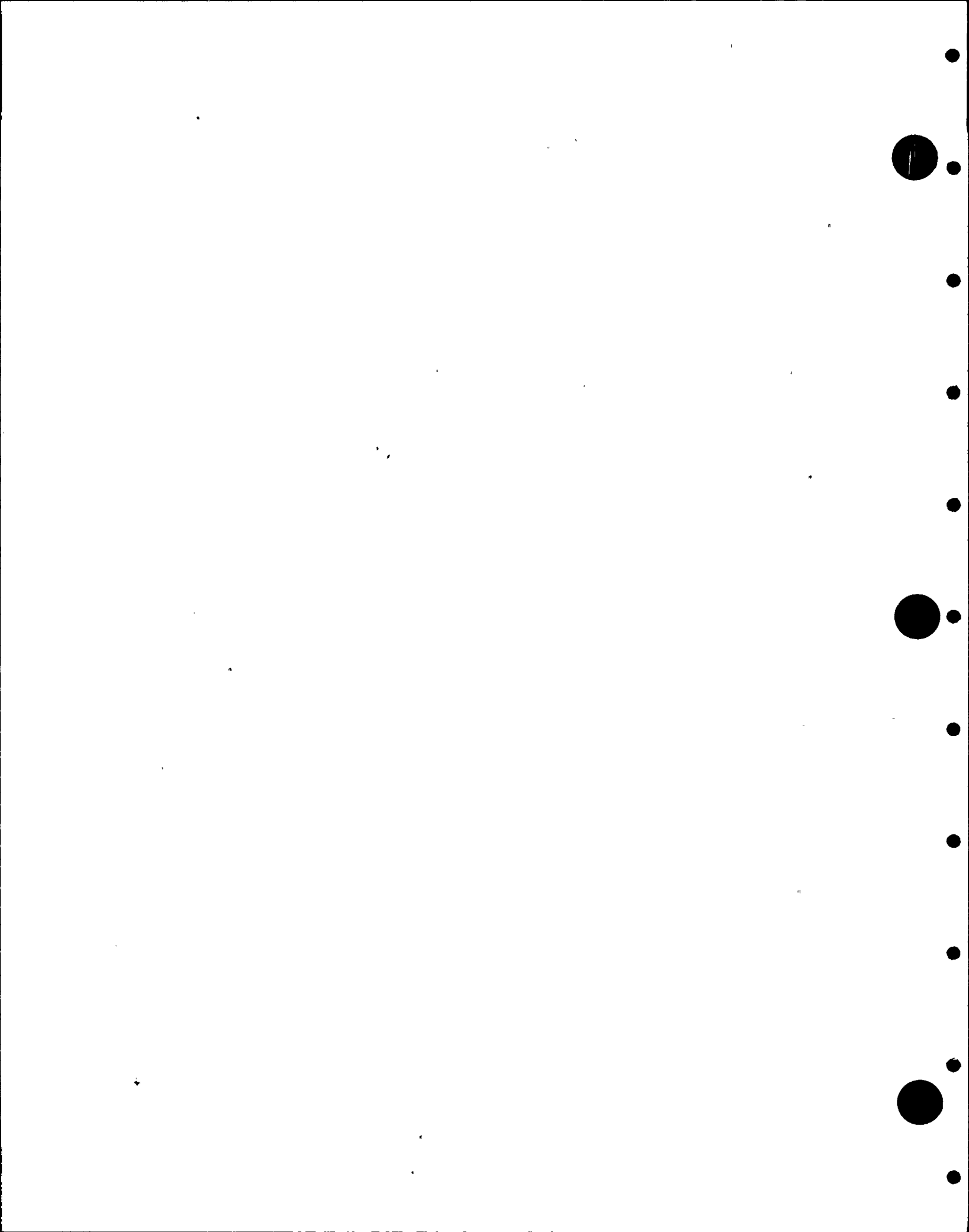
| CODE CATEGORY | IDENTIFICATION NO. | DESCRIPTION | ITEM NO. | METHOD | DRAWING NO. | |
|-----------------------|--------------------|-----------------------|-----------------|--------|-------------|---------|
| B-G-1 | RPV STUD 35-1-60A | RPV STUD | B6.30 | SUR | RPV-101 | |
| | RPV STUD 35-1-67A | 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 | B6.20 | VOL | RPV-101 | |
| | RPV STUD 35-1-74A | RPV STUD | 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 | B6.10 | VOL | RPV-101 | |
| | RPV NUT 36-1-25A | RPV NUT | B6.10 | SUR | RPV-101 | |
| | RPV NUT 36-1-32A | RPV NUT | B6.10 | VOL | RPV-101 | |
| | RPV NUT 36-1-32A | RPV NUT | B6.10 | SUR | RPV-101 | |
| | RPV NUT 36-1-39A | RPV NUT | B6.10 | VOL | RPV-101 | |
| | RPV NUT 36-1-39A | RPV NUT | B6.10 | 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 | B6.10 | VOL | RPV-101 | |
| | RPV NUT 36-1-53A | RPV NUT | B6.10 | SUR | RPV-101 | |
| | RPV NUT 36-1-60A | RPV 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 | B6.10 | VOL | RPV-101 | |
| | RPV NUT 36-1-67A | RPV NUT | B6.10 | SUR | RPV-101 | |
| | RPV NUT 36-1-74A | RPV NUT | B6.10 | VOL | RPV-101 | |
| | RPV NUT 36-1-74A | RPV NUT | B6.10 | SUR | RPV-101 | |
| | B-G-2 | 6SPARE-18U | 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 | B7.80 | 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
 10. ABSTRACT OF EXAMINATIONS. LIST OF EXAMINATIONS:

| CODE CATEGORY | IDENTIFICATION NO. | DESCRIPTION | ITEM NO. | METHOD | DRAWING NO. |
|---------------|-----------------------|-----------------|----------|--------|-------------|
| B-G-2 | CRD HOUSING 14-51 BLT | CRD HOUSING BLT | 87.80 | VT-1 | RPV-102 |
| | CRD HOUSING 26-51 BLT | CRD HOUSING BLT | 87.80 | VT-1 | RPV-102 |
| | CRD HOUSING 10-47 BLT | CRD HOUSING BLT | 87.80 | VT-1 | RPV-102 |
| | CRD HOUSING 26-47 BLT | CRD HOUSING BLT | 87.80 | VT-1 | RPV-102 |
| | CRD HOUSING 34-47 BLT | CRD HOUSING BLT | 87.80 | VT-1 | RPV-102 |
| | CRD HOUSING 14-43 BLT | CRD HOUSING BLT | 87.80 | VT-1 | RPV-102 |
| | CRD HOUSING 38-43 BLT | CRD HOUSING BLT | 87.80 | VT-1 | RPV-102 |
| | CRD HOUSING 02-39 BLT | CRD HOUSING BLT | 87.80 | VT-1 | RPV-102 |
| | CRD HOUSING 14-39 BLT | CRD HOUSING BLT | 87.80 | VT-1 | RPV-102 |
| | CRD HOUSING 18-39 BLT | CRD HOUSING BLT | 87.80 | VT-1 | RPV-102 |
| | CRD HOUSING 22-35 BLT | CRD HOUSING BLT | 87.80 | VT-1 | RPV-102 |
| | CRD HOUSING 26-35 BLT | CRD HOUSING BLT | 87.80 | VT-1 | RPV-102 |
| | CRD HOUSING 10-27 BLT | CRD HOUSING BLT | 87.80 | VT-1 | RPV-102 |
| | CRD HOUSING 14-27 BLT | CRD HOUSING BLT | 87.80 | VT-1 | RPV-102 |
| | CRD HOUSING 42-27 BLT | CRD HOUSING BLT | 87.80 | VT-1 | RPV-102 |
| | CRD HOUSING 10-23 BLT | CRD HOUSING BLT | 87.80 | VT-1 | RPV-102 |
| | CRD HOUSING 14-23 BLT | CRD HOUSING BLT | 87.80 | VT-1 | RPV-102 |
| | CRD HOUSING 18-23 BLT | CRD HOUSING BLT | 87.80 | VT-1 | RPV-102 |
| | CRD HOUSING 34-23 BLT | CRD HOUSING BLT | 87.80 | VT-1 | RPV-102 |
| | CRD HOUSING 02-19 BLT | CRD HOUSING BLT | 87.80 | VT-1 | RPV-102 |
| | CRD HOUSING 06-19 BLT | CRD HOUSING BLT | 87.80 | VT-1 | RPV-102 |
| | CRD HOUSING 26-19 BLT | CRD HOUSING BLT | 87.80 | VT-1 | RPV-102 |
| | CRD HOUSING 34-19 BLT | CRD HOUSING BLT | 87.80 | VT-1 | RPV-102 |
| | CRD HOUSING 38-19 BLT | CRD HOUSING BLT | 87.80 | VT-1 | RPV-102 |
| | CRD HOUSING 06-15 BLT | CRD HOUSING BLT | 87.80 | VT-1 | RPV-102 |
| | CRD HOUSING 14-11 BLT | CRD HOUSING BLT | 87.80 | VT-1 | RPV-102 |
| | CRD HOUSING 34-11 BLT | CRD HOUSING BLT | 87.80 | VT-1 | RPV-102 |
| | CRD HOUSING 18-03 BLT | CRD HOUSING BLT | 87.80 | VT-1 | RPV-102 |
| | CRD HOUSING 26-03 BLT | CRD HOUSING BLT | 87.80 | VT-1 | RPV-102 |
| | CRD HOUSING 34-03 BLT | CRD HOUSING BLT | 87.80 | VT-1 | RPV-102 |
| | CRD HOUSING 42-03 BLT | CRD HOUSING BLT | 87.80 | VT-1 | RPV-102 |
| | RCIC-V-64-BLT | VALVE BOLTING | 87.70 | VT-1 | RCIC-101 |

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 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 | 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 | B9.11 | VOL | RCIC-101 |
| | 4RCIC(13)-7 | PIPE TO PIPE | B9.11 | VOL | RCIC-101 |
| | 4RCIC(13)-8 | PIPE TO PIPE | B9.11 | 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 | B9.11 | VOL | MS-103 |
| | 26MS(1)C-3 | PIPE TO EL | B9.11 | SUR | MS-103 |
| | 26MS(1)C-3LDI | EL SEAM | B9.12 | VOL | MS-103 |
| | 26MS(1)C-3LDI | EL SEAM | B9.12 | SUR | MS-103 |
| | 26MS(1)C-3LDO | EL SEAM | B9.12 | VOL | MS-103 |
| | 26MS(1)C-3LDO | 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-3LDO | EL SEAM | B9.12 | VOL | MS-104 |
| | 26MS(1)D-3LDO | EL SEAM | B9.12 | SUR | MS-104 |
| | 26MS(1)D-4LUI | EL SEAM | B9.12 | VOL | MS-104 |
| | 26MS(1)D-4LUI | EL SEAM | B9.12 | SUR | MS-104 |
| | 26MS(1)D-4LUO | EL SEAM | B9.12 | VOL | MS-104 |
| | 26MS(1)D-4LUO | EL SEAM | B9.12 | SUR | MS-104 |
| | 26MS(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 | MS-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 |
| | 24RFW(1)A-9 | VALVE TO PIPE | B9.11 | SUR | RFW-101 |
| | 24RFW(1)A-12 | EL TO PIPE | B9.11 | VOL | RFW-101 |
| | 24RFW(1)A-12 | EL TO PIPE | B9.11 | SUR | RFW-101 |
| | 12RFW(1)AB-3 | EL TO PIPE | B9.11 | VOL | RFW-101 |

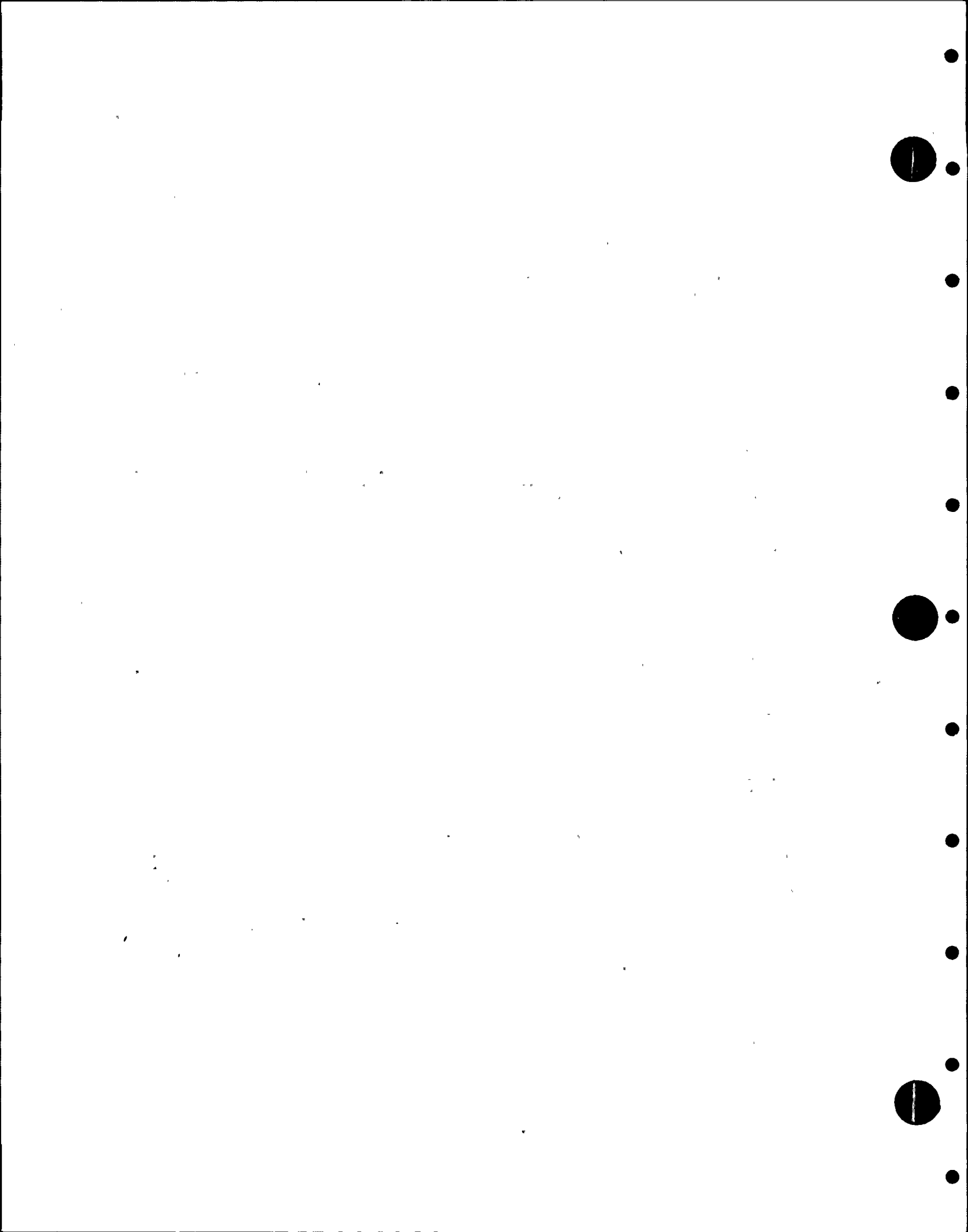


1. OWNER: WASHINGTON PUBLIC POWER SUPPLY SYSTEM, 3000 GEORGE WASHINGTON WAY, P.O. BOX 968,
 RICHLAND, WASHINGTON 99352 2. PLANT: WNP-2, HANFORD RESERVATION, BENTON COUNTY, WA.
 3. PLANT UNIT: WNP-2 4. OWNER CERTIFICATE OF AUTHORIZATION: N/A
 5. COMMERCIAL SERVICE DATE: 12/13/1984 6. NATIONAL BOARD NUMBER: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

| CODE CATEGORY | IDENTIFICATION NO. | DESCRIPTION | ITEM NO. | METHOD | DRAWING NO. |
|---------------|--------------------|-----------------|----------|--------|-------------|
| B-J | 12RFW(1)AB-3 | EL TO PIPE | B9.11 | SUR | RFW-101 |
| | 12RFW(1)AA-1 | REDUCER TO PIPE | B9.11 | VOL | RFW-101 |
| | 12RFW(1)AA-1 | REDUCER TO PIPE | B9.11 | 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 |
| | 12RFW(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 | PIPE TO SE EXT | B9.11 | SUR | RFW-101 |
| | 24RFW(1)B-12 | EL TO PIPE | B9.11 | VOL | RFW-102 |
| | 24RFW(1)B-12 | EL TO PIPE | B9.11 | SUR | RFW-102 |
| | 12RFW(1)BD-4 | PIPE TO EL | B9.11 | VOL | RFW-102 |
| | 12RFW(1)BD-4 | PIPE TO EL | B9.11 | 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 | B9.11 | SUR | RFW-103 |
| | 6RFW(11)-5 | EL TO PIPE | B9.11 | VOL | RFW-103 |
| | 6RFW(11)-5 | EL TO PIPE | B9.11 | SUR | RFW-103 |
| | 6RFW(11)-6 | PIPE TO EL | B9.11 | VOL | RFW-103 |
| | 6RFW(11)-6 | PIPE TO EL | B9.11 | SUR | RFW-103 |
| | 6RFW(11)-7 | EL TO PIPE | B9.11 | VOL | RFW-103 |
| | 6RFW(11)-7 | EL TO PIPE | B9.11 | SUR | RFW-103 |
| | 6RFW(11)-8 | PIPE TO TEE | B9.11 | VOL | RFW-103 |
| | 6RFW(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 | B9.11 | SUR | RFW-103 |
| | 6RFW(11)-10 | PIPE TO REDUCER | B9.11 | VOL | RFW-103 |
| | 6RFW(11)-10 | PIPE TO REDUCER | B9.11 | SUR | RFW-103 |
| | 4RFW(11)B-1 | REDUCER TO PIPE | B9.11 | VOL | RFW-103 |
| | 4RFW(11)B-1 | 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:

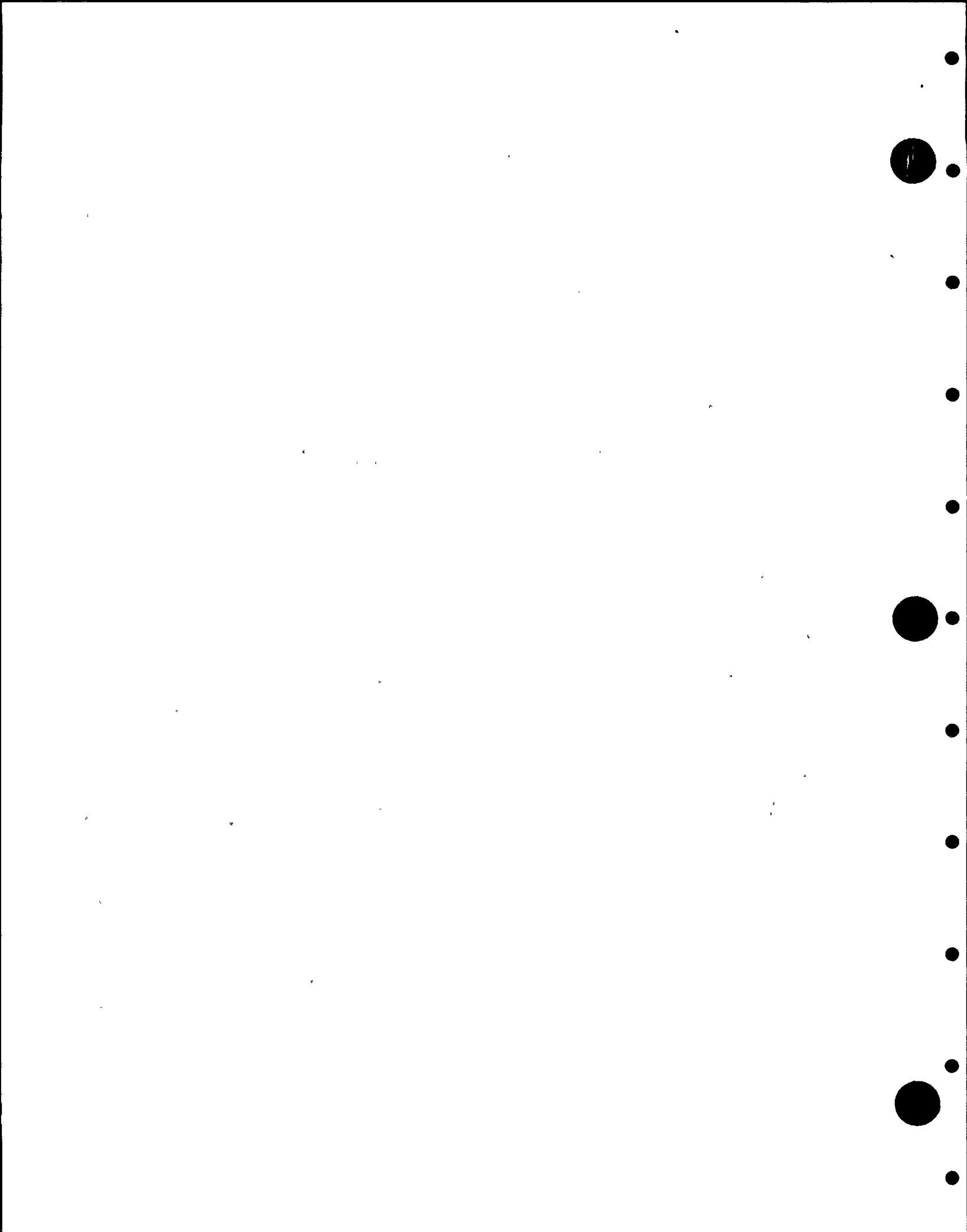
| CODE CATEGORY | IDENTIFICATION NO. | DESCRIPTION | ITEM NO. | METHOD | DRAWING NO. |
|---------------|--------------------------|-----------------|----------|--------|-------------|
| B-J | 4RFW(11)B-1A | PIPE TO PIPE | B9.11 | VOL | RFW-103 |
| | 4RFW(11)B-1A | PIPE TO PIPE | B9.11 | SUR | RFW-103 |
| | 4RFW(11)B-2 | PIPE TO EL | B9.11 | VOL | RFW-103 |
| | 4RFW(11)B-2 | PIPE TO EL | B9.11 | SUR | RFW-103 |
| | 4RFW(11)B-3 | EL TO PIPE | B9.11 | VOL | RFW-103 |
| | 4RFW(11)B-3 | EL TO PIPE | B9.11 | SUR | RFW-103 |
| | 4RFW(11)B-4 | PIPE TO EL | B9.11 | VOL | RFW-103 |
| | 4RFW(11)B-4 | PIPE TO EL | B9.11 | SUR | RFW-103 |
| | 4RFW(11)B-5 | EL TO SLEEVE | B9.11 | VOL | RFW-103 |
| | 4RFW(11)B-5 | EL TO SLEEVE | B9.11 | SUR | RFW-103 |
| | 16RRC(1)A-1/12RRC(1)-N2D | PIPE TO SWL | B9.31 | VOL | RRC-101 |
| | 16RRC(1)A-1/12RRC(1)-N2D | PIPE TO SWL | B9.31 | SUR | RRC-101 |
| | 16RRC(1)A-1/12RRC(1)-N2E | PIPE TO SWL | B9.31 | VOL | RRC-101 |
| | 16RRC(1)A-1/12RRC(1)-N2E | PIPE TO SWL | B9.31 | SUR | RRC-101 |
| | 16RRC(1)A-2 | PIPE TO CAP | B9.11 | VOL | RRC-101 |
| | 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 | PIPE TO SWL | B9.31 | SUR | RRC-101 |
| | 16RRC(1)A-3/12RRC(1)-N2A | PIPE TO SWL | B9.31 | VOL | RRC-101 |
| | 16RRC(1)A-3/12RRC(1)-N2A | PIPE TO SWL | B9.31 | SUR | RRC-101 |
| | 16RRC(1)A-4 | PIPE TO CAP | B9.11 | 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 |
| | 12RRC(1)-N2A-1LD | PIPE SEAM | B9.12 | SUR | RRC-101 |
| | 12RRC(1)-N2A-3 | EL TO PIPE | B9.12 | 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 | B9.12 | VOL | RRC-101 |
| | 12RRC(1)-N2C-1LD | PIPE SEAM | B9.12 | SUR | RRC-101 |
| | 12RRC(1)-N2C-1A | PIPE TO PIPE | B9.11 | VOL | RRC-101 |
| | 12RRC(1)-N2C-1ALD | PIPE SEAM | B9.12 | VOL | RRC-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:

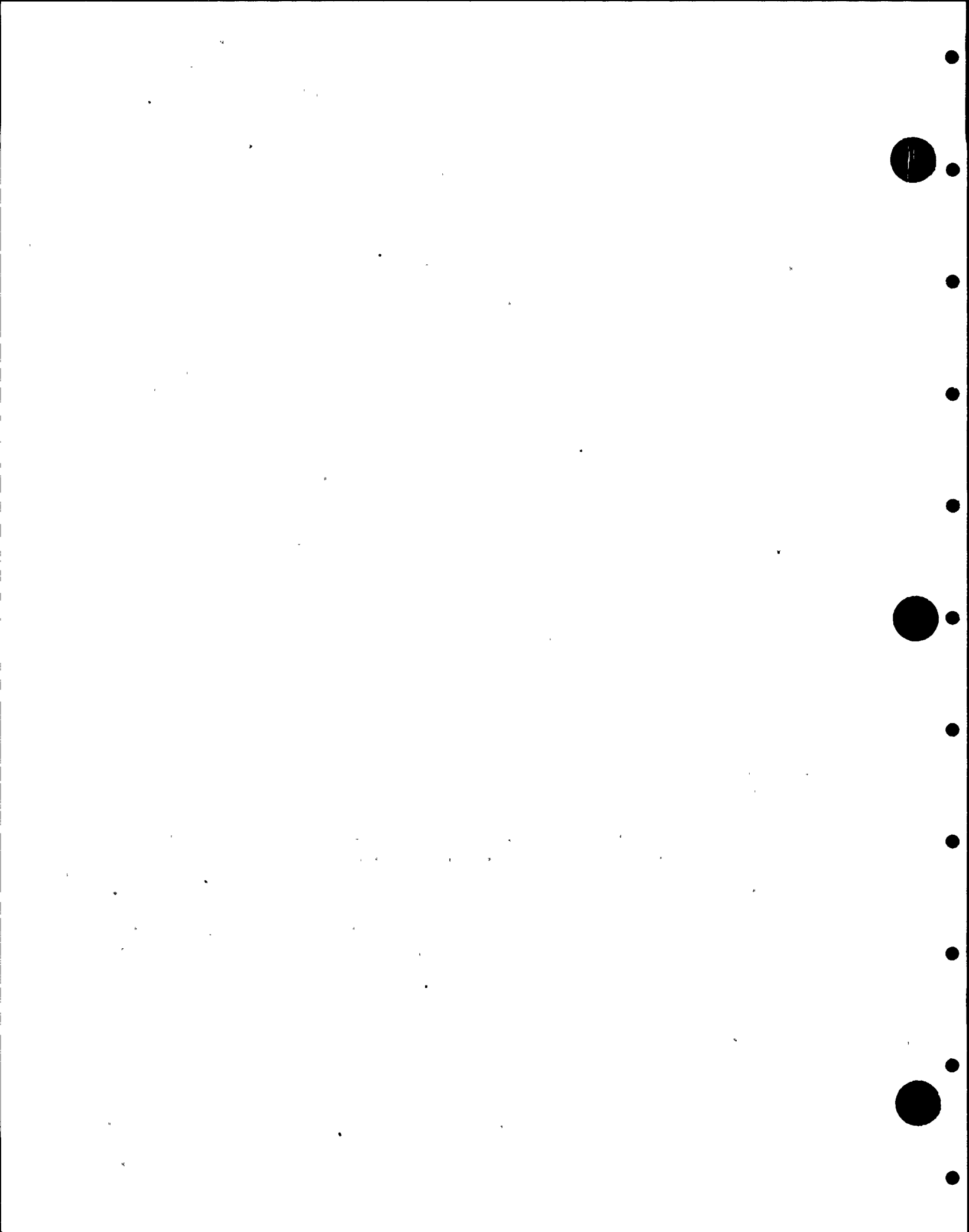
| CODE CATEGORY | IDENTIFICATION NO. | DESCRIPTION | ITEM NO. | METHOD | DRAWING NO. |
|----------------|--------------------|----------------|---------------|--------|-------------|
| B-J | 12RRC(1)-N2C-3 | EL TO PIPE | B9.11 | VOL | RRC-101 |
| | 12RRC(1)-N2D-1 | SWL TO PIPE | B9.11 | VOL | RRC-101 |
| | 12RRC(1)-N2D-1 | SWL TO PIPE | B9.11 | SUR | 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)-2LDO | EL SEAM | B9.12 | VOL | RRC-105 |
| | 20RRC(6)-2LDO | EL SEAM | B9.12 | SUR | RRC-105 |
| | B-K-1 | MS-HC-1(W) | 4 WELDED LUGS | B10.10 | SUR |
| 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-1C-3(W) | | 8 WELDED LUGS | B10.10 | SUR | RWCU-101 |
| B-N-2 | LPCS-V-6-BDY | VALVE BODY | B12.40 | VT-3 | LPCS-101 |
| | MS-V-28C-BDY | VALVE BODY | B12.40 | VT-3 | MS-103 |
| | RRC-V-60A-BDY | VALVE BODY | B12.40 | VT-3 | RRC-101 |
| B-N-1 | RPV INTERIOR | RPV INTERIOR * | B13.10 | VT-3 | RPV-101 |
| B-P | RPV-PB-101(L) | LK PRES BNDRY | B15.10 | 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-PB-101(L) | LK PRES BNDRY | B15.50 | VT-2 | RHR-101 |
| | RHR-PB-102(L) | LK PRES BNDRY | B15.50 | VT-2 | RHR-102 |

* Limited to two surv. specimen holders and RPV top head steam dryer holddown lugs (4).



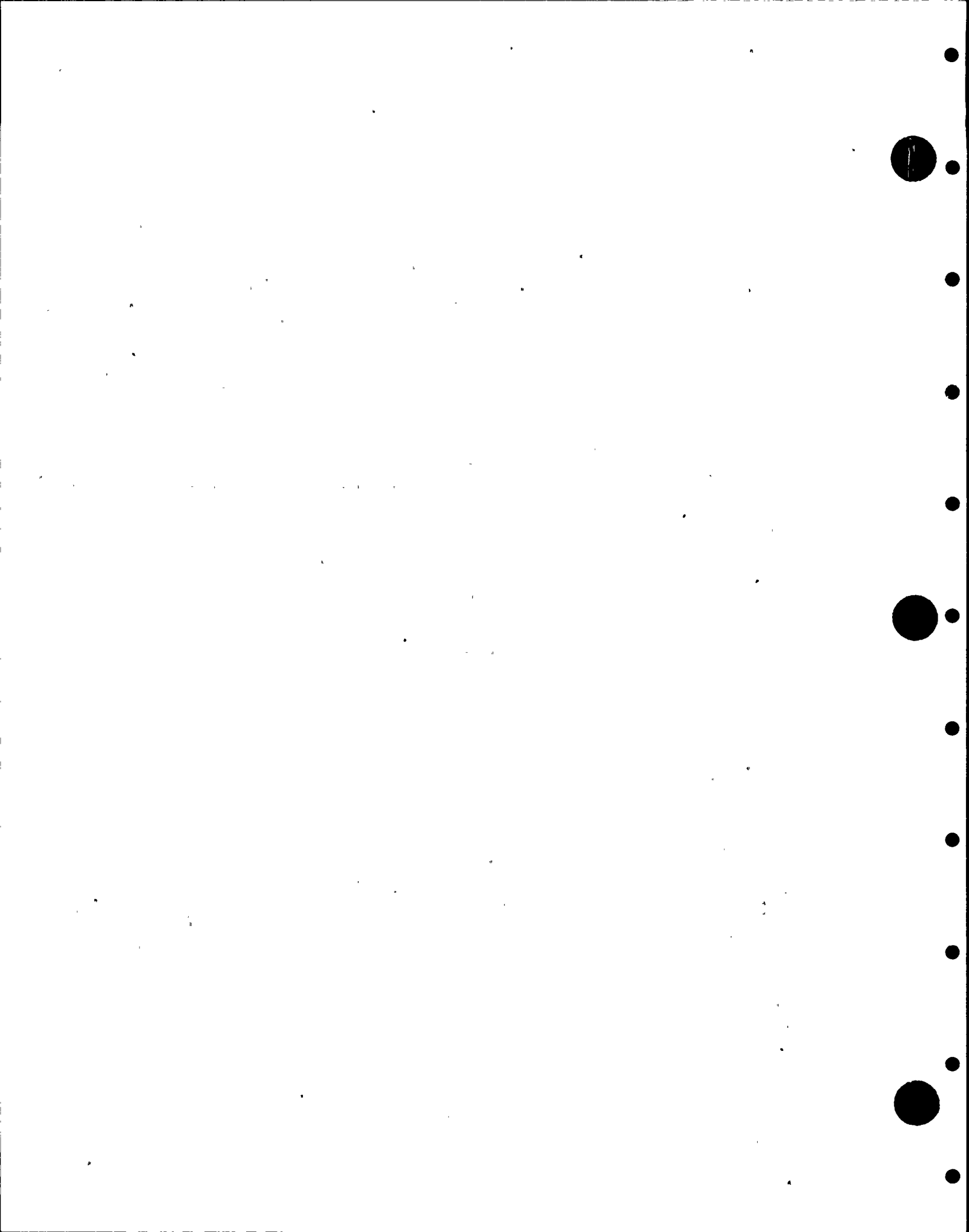
1. OWNER: WASHINGTON PUBLIC POWER SUPPLY SYSTEM, 3000 GEORGE WASHINGTON WAY, P.O. BOX 968,
 RICHLAND, WASHINGTON 99352 2. PLANT: WNP-2, HANFORD RESERVATION, BENTON COUNTY, WA.
 3. PLANT UNIT: WNP-2 4. OWNER CERTIFICATE OF AUTHORIZATION: N/A
 5. COMMERCIAL SERVICE DATE: 12/13/1984 6. NATIONAL BOARD NUMBER: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

| CODE CATEGORY | IDENTIFICATION NO. | DESCRIPTION | ITEM NO. | METHOD | DRAWING NO. |
|----------------|--------------------|---------------|----------|----------|-------------|
| B-P | RHR-PB-103(L) | LK PRES BNDRY | B15.50 | VT-2 | RHR-103 |
| | RHR-PB-104(L) | LK PRES BNDRY | B15.50 | 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-PB-101(L) | LK PRES BNDRY | B15.50 | VT-2 | MS-101 |
| | MS-PB-102(L) | LK PRES BNDRY | B15.50 | 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-PB-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-PB-102(L) | LK PRES BNDRY | B15.50 | VT-2 | RFW-102 |
| | RFW-PB-103(L) | LK PRES BNDRY | B15.50 | VT-2 | RFW-103 |
| | RRC-PB-101(L) | LK PRES BNDRY | B15.50 | VT-2 | RRC-101 |
| | RRC-PB-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 | B15.50 | VT-2 | RRC-105 |
| | RRC-PB-106(L) | LK PRES BNDRY | B15.50 | VT-2 | RRC-106 |
| | RRC-PB-107(L) | LK PRES BNDRY | B15.50 | VT-2 | RRC-107 |
| | RRC-PB-108(L) | LK PRES BNDRY | B15.50 | VT-2 | RRC-108 |
| | RRC-PB-109(L) | LK PRES BNDRY | 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 | B15.50 | VT-2 | RRC-111 |
| RWCU-PB-101(L) | LK PRES BNDRY | B15.50 | 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 |



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 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 | 6RCIC(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 | ELL TO TEE | C5.51 | SUR | RCIC-205 |
| | 16HPCS(1)-7 | ELL TO PIPE | C5.51 | VOL | HPCS-202 |
| | 16HPCS(1)-7 | ELL TO PIPE | C5.51 | SUR | HPCS-202 |
| | 16HPCS(1)-27 | PIPE TO EL | C5.51 | VOL | HPCS-202 |
| | 16HPCS(1)-27 | PIPE TO ELL | C5.51 | 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 | 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 |
| | 12LPCS(3)-6 | PIPE TO ELL | C5.51 | SUR | LPCS-202 |
| | 16LPCS(1)-23 | PIPE TO PIPE | C5.51 | VOL | LPCS-202 |
| | 16LPCS(1)-23 | PIPE TO PIPE | C5.51 | SUR | LPCS-202 |
| | 16LPCS(1)-27 | ELL TO PIPE | C5.51 | VOL | LPCS-202 |
| | 16LPCS(1)-27 | ELL TO PIPE | C5.51 | SUR | LPCS-202 |
| | 20RHR(1)A-2 | PIPE TO NOZZLE | C5.51 | VOL | RHR-201 |
| | 20RHR(1)A-2 | PIPE TO NOZZLE | C5.51 | SUR | RHR-201 |
| | 18RHR(11)A-1 | TEE TO PIPE | C5.51 | VOL | RHR-201 |
| | 18RHR(11)A-1 | TEE TO PIPE | C5.51 | SUR | RHR-201 |
| | 18RHR(11)A-14 | PIPE TO TEE | C5.51 | VOL | RHR-201 |
| | 18RHR(11)A-14 | PIPE TO TEE | C5.51 | SUR | RHR-201 |
| | 20RHR(1)A-6 | PIPE TO REDUCER | C5.51 | VOL | RHR-201 |
| | 20RHR(1)A-6 | PIPE TO REDUCER | C5.51 | SUR | RHR-201 |
| | 18RHR(1)A-47 | 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 | C5.51 | VOL | RHR-201 |
| | 18RHR(1)A-54 | PIPE TO TEE | C5.51 | SUR | RHR-201 |
| | 14RHR(1)A-13 | EL TO PIPE | C5.51 | VOL | RHR-201 |
| | 14RHR(1)A-13 | EL TO PIPE | C5.51 | SUR | RHR-201 |

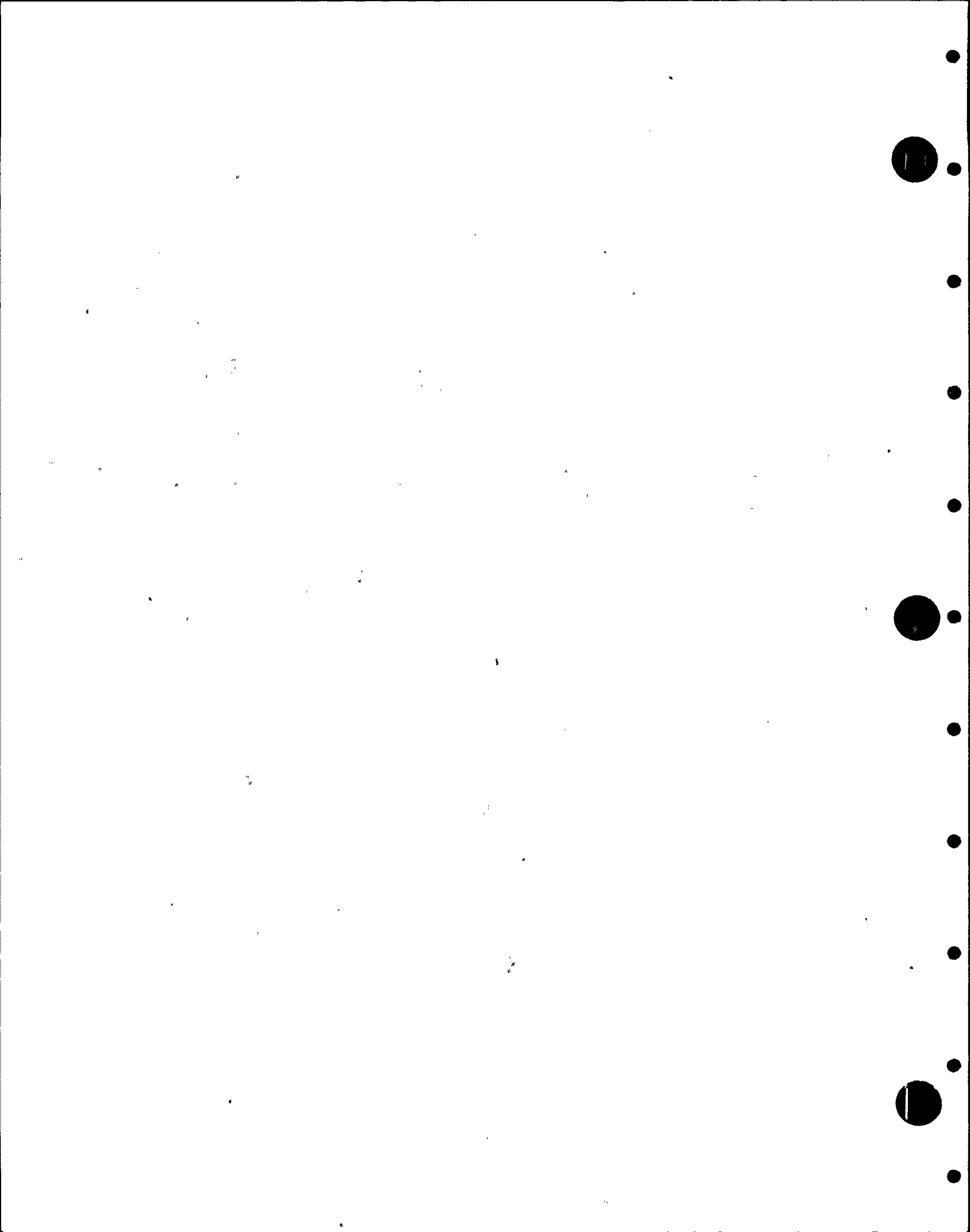


1. OWNER: WASHINGTON PUBLIC POWER SUPPLY SYSTEM, 3000 GEORGE WASHINGTON WAY, P.O. BOX 968,
 RICHLAND, WASHINGTON 99352 2. PLANT: WNP-2, HANFORD RESERVATION, BENTON COUNTY, WA.
 3. PLANT UNIT: WNP-2 4. OWNER CERTIFICATE OF AUTHORIZATION: N/A
 5. COMMERCIAL SERVICE DATE: 12/13/1984 6. NATIONAL BOARD NUMBER: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

| CODE | CATEGORY | IDENTIFICATION NO. | DESCRIPTION | ITEM NO. | METHOD | DRAWING NO. |
|------|----------|--------------------|---------------|----------|--------|-------------|
| D-C | | FPC-908N(W) | WELDED ATTACH | D3.30 | VT-3 | FPC-301 |
| IWF | | RCIC-72 | SPRING | F-X | VT3H | RCIC-101 |
| | | RCIC-1C-16 | PSA-3 SNUBBER | F-X | VT3H | 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 | VT3H | 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-102 |
| | | 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 | VT3H | RCIC-102 |
| | | RCIC-955N | BOX | 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 | VT3H | RCIC-205 |
| | | RCIC-29 | ANCHOR | F-X | VT3H | RCIC-205 |
| | | RCIC-86 | SPRING | F-X | VT3H | RCIC-205 |
| | | RCIC-88 | BOX | F-X | VT3H | RCIC-205 |
| | | RCIC-90 | STRUT | F-X | VT3H | RCIC-205 |
| | | RCIC-91 | ANCHOR | F-X | VT3H | RCIC-205 |
| | | RCIC-93 | BOX | F-X | VT3H | RCIC-205 |
| | | RCIC-95 | BOX | F-X | VT3H | RCIC-205 |
| | | RCIC-97 | SPRING | F-X | VT3H | RCIC-205 |
| | | RCIC-98 | STRUT | F-X | VT3H | RCIC-205 |
| | | RCIC-99 | STRUT | F-X | VT3H | RCIC-205 |
| | | RCIC-100 | PSA-1/2 SN(2) | F-X | VT3H | RCIC-205 |
| | | HPCS-1 | SPRING | F-X | VT3H | HPCS-202 |
| | | HPCS-23 | SPRING | F-X | VT3H | HPCS-202 |

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 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 | HPCS-21 | RIGID | F-X | VT3H | HPCS-202 |
| | HPCS-20 | RIGID | F-X | VT3H | HPCS-202 |
| | HPCS-903N | STRUT | F-X | VT3H | HPCS-202 |
| | HPCS-24 | STRUT | F-X | VT3H | HPCS-202 |
| | HPCS-25 | SPRING | F-X | VT3H | HPCS-202 |
| | HPCS-26 | STRUT | F-X | VT3H | HPCS-202 |
| | HPCS-27 | STRUT | F-X | VT3H | HPCS-202 |
| | HPCS-28 | BOX | F-X | VT3H | HPCS-202 |
| | HPCS-917N | STRUT | F-X | VT3H | HPCS-202 |
| | HPCS-915N | STRUT | F-X | VT3H | HPCS-202 |
| | HPCS-909N | STRUT | F-X | VT3H | HPCS-202 |
| | LPCS-38 | BOX | F-X | VT3H | LPCS-202 |
| | LPCS-39 | BOX | F-X | VT3H | LPCS-202 |
| | LPCS-11 | SPRING | F-X | VT3H | LPCS-202 |
| | LPCS-12 | BOX | F-X | VT3H | LPCS-202 |
| | LPCS-14 | ANCHOR | F-X | VT3H | LPCS-202 |
| | LPCS-17 | BOX | F-X | VT3H | LPCS-202 |
| | LPCS-20 | STRUT | F-X | VT3H | LPCS-202 |
| | LPCS-41 | STRUT | F-X | VT3H | LPCS-202 |
| | LPCS-42 | BOX | F-X | VT3H | LPCS-202 |
| | LPCS-22 | RIGID | F-X | VT3H | LPCS-202 |
| | LPCS-23 | SPRING | F-X | VT3H | LPCS-202 |
| | LPCS-24 | BOX | F-X | VT3H | LPCS-202 |
| | LPCS-25 | SPRING | F-X | VT3H | LPCS-202 |
| | LPCS-903N | ANCHOR | F-X | VT3H | LPCS-202 |
| | RHR-601 | STRUT | F-X | VT3H | RHR-201 |
| | RHR-600 | STRUT | F-X | VT3H | RHR-201 |
| | RHR-578 | SPRING | F-X | VT3H | RHR-201 |
| | RHR-237 | STRUT | F-X | VT3H | RHR-201 |
| | RHR-234 | BOX | F-X | VT3H | RHR-201 |
| | RHR-1004N | STRUT | F-X | VT3H | RHR-201 |
| | RHR-235 | PSA-10 SNUBBER | F-X | VT3H | RHR-201 |
| | RHR-350 | SPRING | F-X | VT3H | RHR-201 |



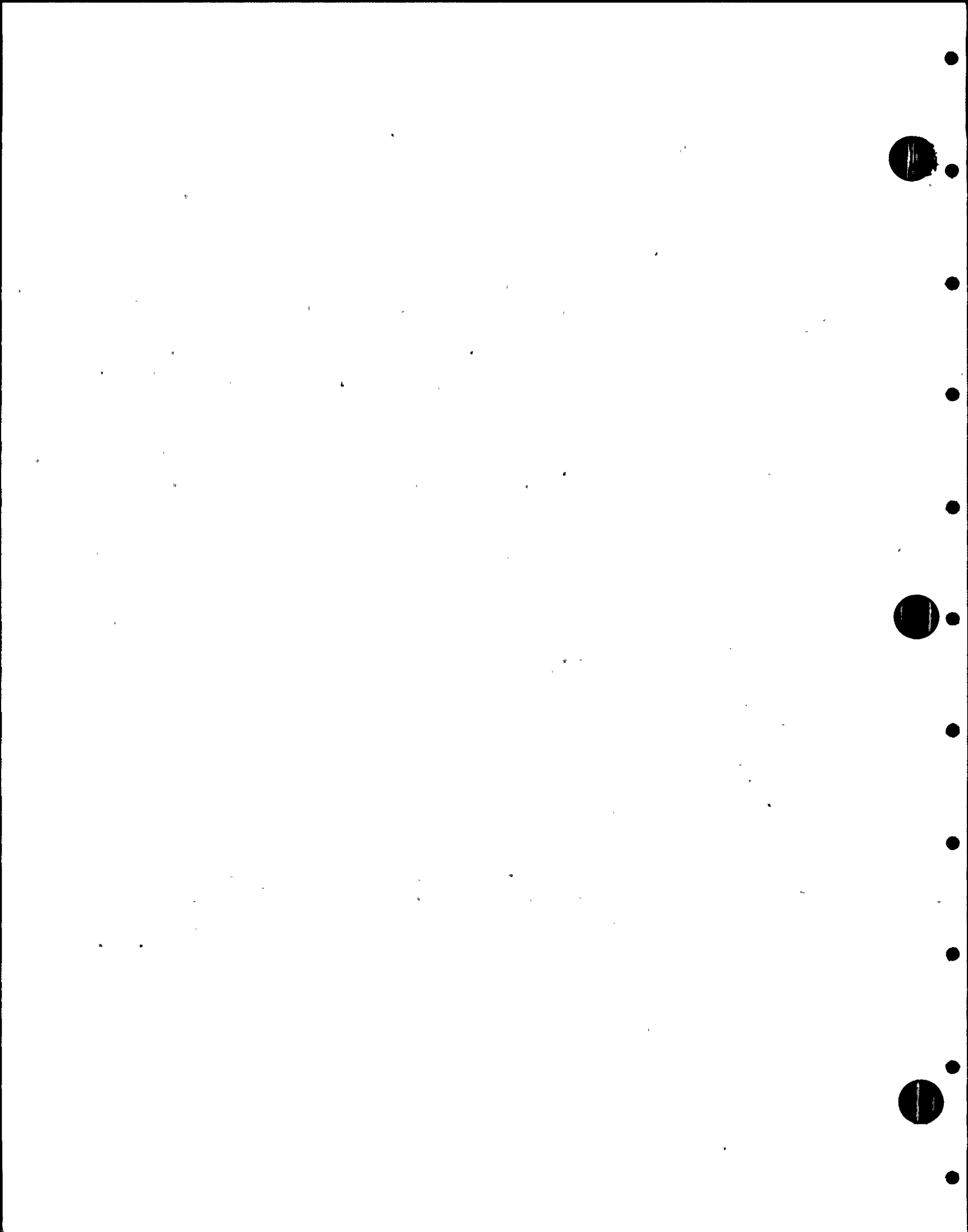
1. OWNER: WASHINGTON PUBLIC POWER SUPPLY SYSTEM, 3000 GEORGE WASHINGTON WAY, P.O. BOX 968,
 RICHLAND, WASHINGTON 99352 2. PLANT: WNP-2, HANFORD RESERVATION, BENTON COUNTY, WA.
 3. PLANT UNIT: WNP-2 4. OWNER CERTIFICATE OF AUTHORIZATION: N/A
 5. COMMERCIAL SERVICE DATE: 12/13/1984 6. NATIONAL BOARD NUMBER: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

10. ABSTRACT OF EXAMINATIONS. LIST OF EXAMINATIONS:

| CODE CATEGORY | IDENTIFICATION NO. | DESCRIPTION | ITEM NO. | METHOD | DRAWING NO. |
|---------------|--------------------|----------------|----------|--------|-------------|
| IWF | RHR-965N | ANCHOR | F-X | VT3H | RHR-201 |
| | RHR-1019N | STRUT | F-X | VT3F | RHR-201 |
| | RHR-240 | BOX | 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. | VT3H | MS-103 |
| | MS-SC-7 | PSA-35 SNUBBER | F-X | VT3F | MS-103 |
| | MS-SC-5 | PSA-35 SNUBBER | F-X | 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 | VT3H | MS-104 |
| | MS-SD-5 | PSA-35 SNUBBER | F-X | VT3F | 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 | VT3F | MS-105 |
| | MS-261 | SPRING | F-X | VT3H | MS-105 |
| | MS-155 | STRUT | F-X | VT3H | MS-202 |
| | MS-178 | SPRING | F-X | VT3H | 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 | VT3F | MS-202 |
| | MS-149 | SPRING (2) | F-X | VT3F | MS-202 |
| | MS-146 | SPRING (2) | F-X | VT3H | MS-202 |
| | MS-144 | SPRING | F-X | VT3H | 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 |

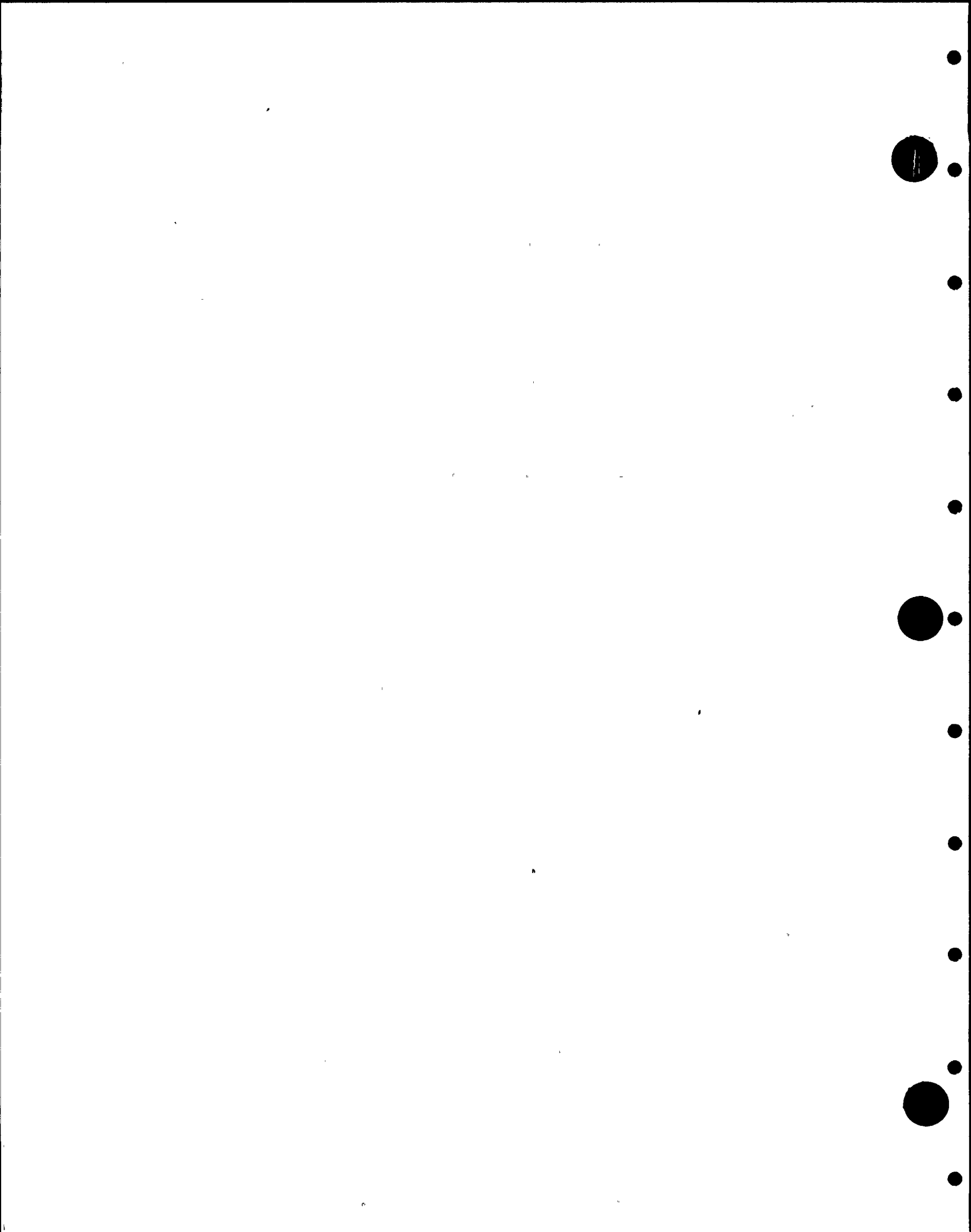
1. OWNER: WASHINGTON PUBLIC POWER SUPPLY SYSTEM, 3000 GEORGE WASHINGTON WAY, P.O. BOX 968,
 RICHLAND, WASHINGTON 99352 2. PLANT: WNP-2, HANFORD RESERVATION, BENTON COUNTY, WA.
 3. PLANT UNIT: WNP-2 4. OWNER CERTIFICATE OF AUTHORIZATION: N/A
 5. COMMERCIAL SERVICE DATE: 12/13/1984 6. NATIONAL BOARD NUMBER: 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 |
| | | RFW-151 | PSA-35 SNUBBER | F-X | VT3H | RFW-101 |
| | | RFW-929N | PSA-10 SNUBBER | F-X | VT3H | RFW-101 |
| | | RFW-159 | SPRING | F-X | VT3H | RFW-101 |
| | | RFW-182 | SPRING | F-X | VT3H | RFW-102 |
| | | RFW-184 | SPRING | F-X | VT3H | RFW-102 |
| | | RFW-173 | SPRING | F-X | VT3H | 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 | RFW-102 |
| | | RFW-177 | SPRING | F-X | VT3H | RFW-103 |
| | | RFW-181 | SPRING | F-X | VT3H | RFW-103 |
| | | RRC-HA-9 | SPRING | F-X | VT3H | RRC-101 |
| | | RRC-SA-13 | PSA-35 SNUBBER | F-X | VT3H | RRC-101 |
| | | RRC-SA-11 | PSA-35 SNUBBER | F-X | VT3H | RRC-101 |
| | | RRC-HA-8 | SPRING | F-X | VT3H | RRC-101 |
| | | RRC-SA-12 | PSA-35 SNUBBER | F-X | VT3H | RRC-101 |
| | | RRC-SA-14 | PSA-35 SNUBBER | F-X | VT3H | RRC-101 |
| | | RRC-1 | SPRING | F-X | VT3H | RRC-105 |
| | | RHR-SA-50 | PSA-35 SNUBBER | F-X | VT3H | RRC-105 |
| | | RWCU-1C-4PS | STRUT | F-X | VT3H | RWCU-101 |
| | | RWCU-1C-3 | PSA-3 SN(2) | F-X | VT3H | RWCU-101 |
| | | FPC-170 | BOX | F-X | VT3H | FPC-201 |
| | | FPC-172 | BOX | F-X | VT3H | FPC-201 |
| | | FPC-237 | BOX | F-X | VT3H | FPC-201 |
| | | FPC-238 | BOX | F-X | VT3H | FPC-201 |
| | | FPC-239 | BOX | 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 | BOX | F-X | VT3H | FPC-301 |
| | | FPC-60 | BOX | F-X | VT3H | FPC-301 |



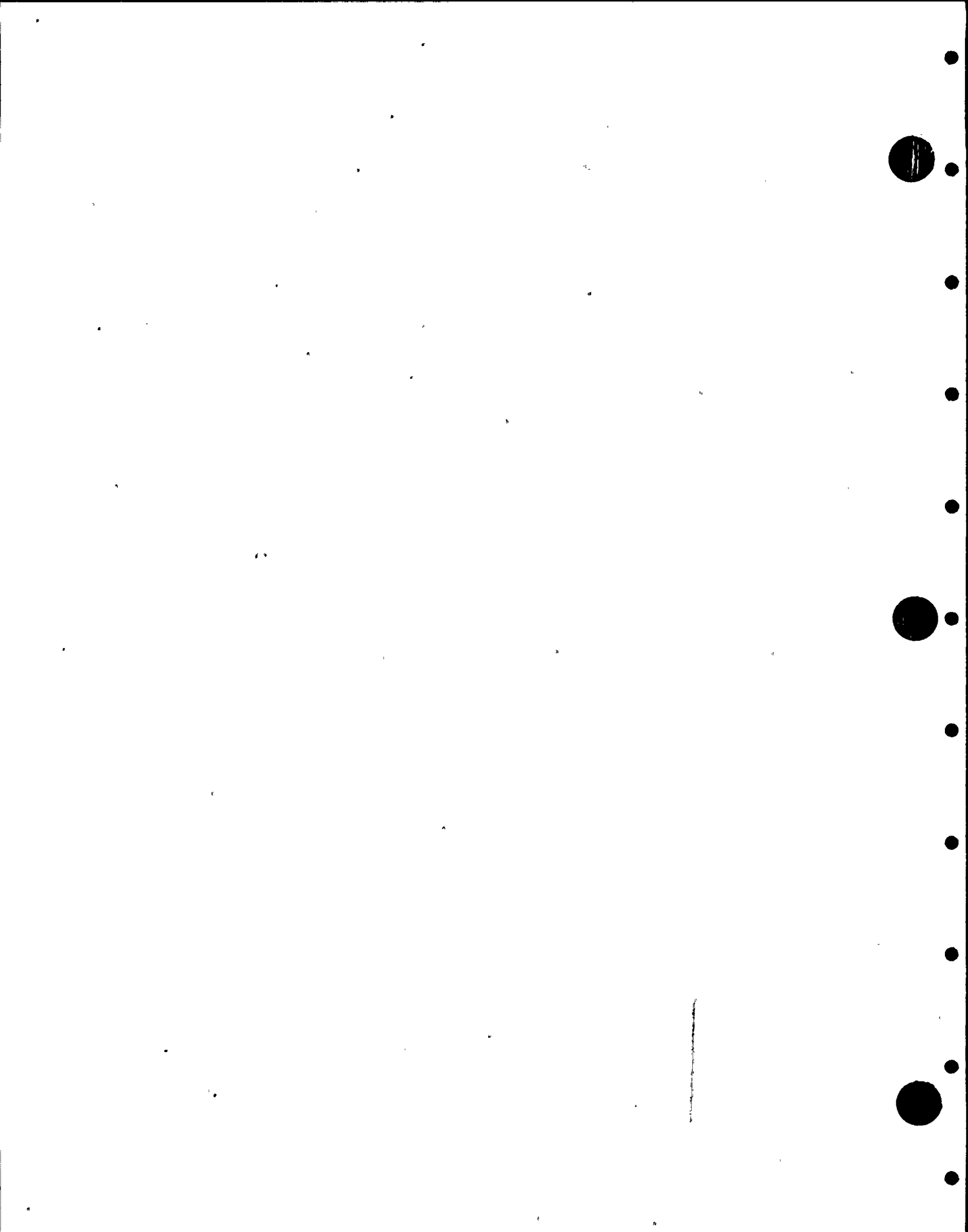
1. OWNER: WASHINGTON PUBLIC POWER SUPPLY SYSTEM, 3000 GEORGE WASHINGTON WAY, P.O. BOX 968,
 RICHLAND, WASHINGTON 99352 2. PLANT: WNP-2, HANFORD RESERVATION, BENTON COUNTY, WA.
 3. PLANT UNIT: WNP-2 4. OWNER CERTIFICATE OF AUTHORIZATION: N/A
 5. COMMERCIAL SERVICE DATE: 12/13/1984 6. NATIONAL BOARD NUMBER: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

| CODE CATEGORY | IDENTIFICATION NO. | DESCRIPTION | ITEM NO. | METHOD | DRAWING NO. |
|---------------|--------------------|-------------|----------|--------|-------------|
| IWF | FPC-61 | SPRING | F-X | VT3H | FPC-301 |
| | FPC-62 | BOX | F-X | VT3H | FPC-301 |
| | FPC-909N | RIGID | F-X | VT3H | FPC-301 |
| | FPC-908N | PSA-1 SN(2) | F-X | VT3H | FPC-301 |
| | FPC-41 | SPRING | F-X | VT3H | FPC-301 |
| | FPC-40 | STRUT | F-X | VT3H | FPC-301 |
| | FPC-39 | SPRING | F-X | VT3H | FPC-301 |
| | FPC-208 | BOX | 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 | BOX | F-X | VT3H | FPC-303 |
| | FPC-198 | BOX | F-X | VT3H | FPC-303 |
| | FPC-189 | SPRING | F-X | VT3H | FPC-303 |
| | FPC-102 | RIGID | F-X | VT3H | FPC-304 |
| | FPC-103 | RIGID | F-X | VT3H | 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 | VT3H | 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 | BOX | F-X | VT3H | FPC-304 |
| | FPC-113 | BOX | F-X | VT3H | FPC-304 |
| | FPC-92 | RIGID | F-X | VT3H | FPC-305 |
| | FPC-91 | STRUT | F-X | VT3H | FPC-305 |
| | FPC-77 | RIGID | F-X | VT3H | FPC-305 |
| | FPC-76 | BOX | F-X | VT3H | FPC-305 |
| | FPC-75 | RIGID | F-X | VT3H | FPC-305 |
| | FPC-74 | RIGID | F-X | VT3H | FPC-305 |
| | FPC-73 | BOX | F-X | VT3H | FPC-305 |
| | FPC-72 | RIGID | F-X | VT3H | FPC-305 |



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 | FPC-71 | BOX | F-X | VT3H | FPC-305 |
| | FPC-68 | RIGID | F-X | VT3H | FPC-305 |
| | SLC-4453-24 | RIGID | F-X | VT3H | 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 | VT3H | SLC-101 |
| | SLC-4453-215 | RIGID | F-X | VT3H | SLC-101 |
| | SLC-4453-29 | RIGID | F-X | VT3H | SLC-101 |
| | SLC-4453-210 | RIGID | F-X | VT3H | SLC-101 |
| | SLC-4453-211 | RIGID | F-X | VT3H | SLC-101 |
| | SLC-4453-212 | RIGID | F-X | VT3H | SLC-101 |
| | SLC-4453-213 | RIGID | F-X | VT3H | SLC-101 |
| | SLC-4453-31 | RIGID | F-X | VT3H | SLC-101 |
| | SLC-4453-32 | RIGID | F-X | VT3H | SLC-101 |

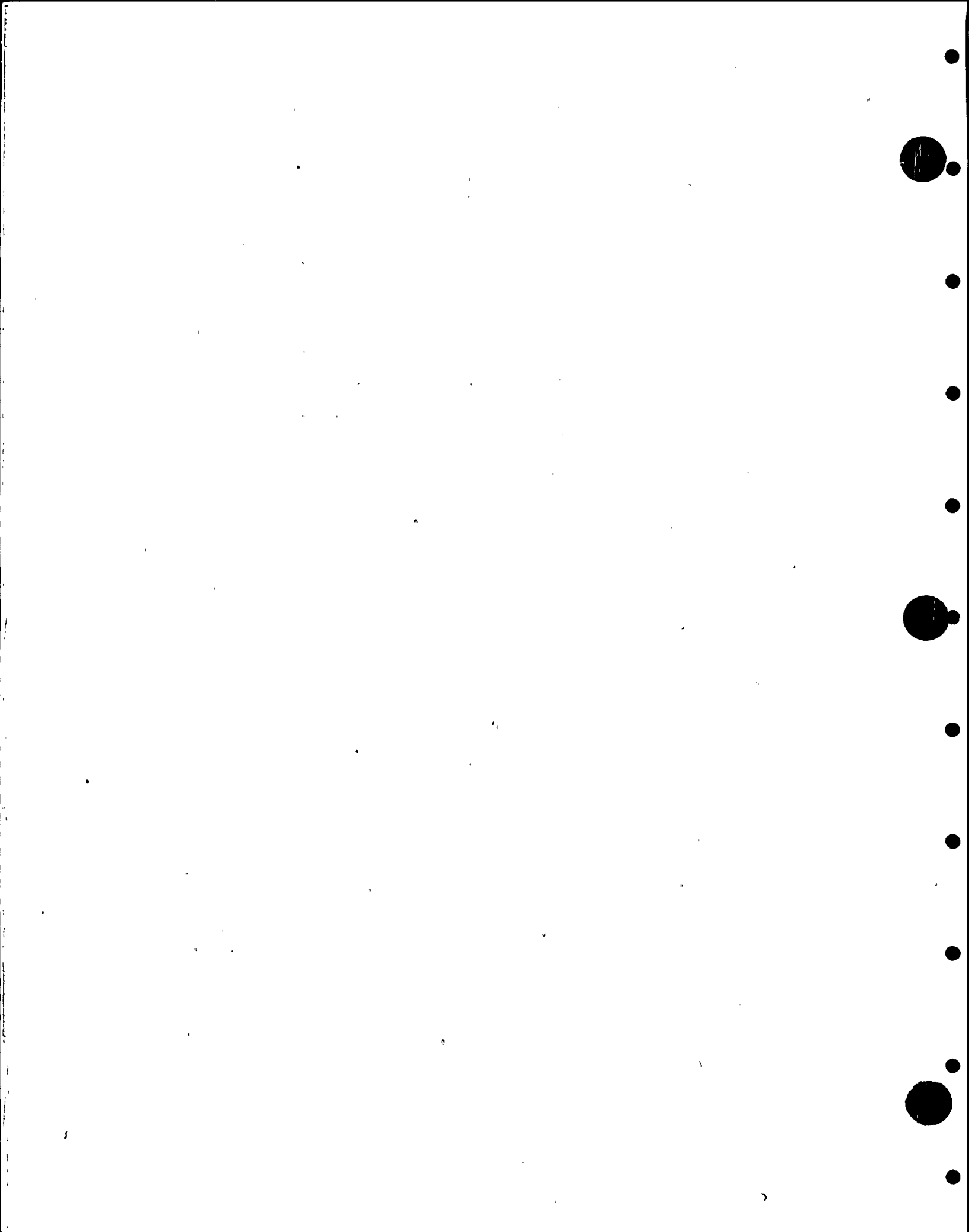


APPENDIX B

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° beam angle exam and 90.4% for the 60° beam angle exam).



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

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

PAGE 001
 DATE 10/22/90

| IDENT. NO. | EXAM. MTH. | EXAM. DATA SHEET NO. | EXAMINATION RESULTS | | | | REMARKS |
|------------|------------|----------------------|---------------------|-----------------|----------------------|-------|---|
| | | | NO INDIC. | INSIGNIF INDIC. | SIGNIFICANT GEOMETRY | OTHER | |
| N3-108 | 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 CONFIGURATION. NO SCAN ON NOZZLE SIDE. |
| | | 1RPU-051 | 60 | | | | NO RECORDABLE INDICATIONS. EXAM LIMITED DUE TO NOZZLE CONFIGURATION. NO SCAN ON NOZZLE SIDE. |
| N3-108-IR | VOL | 1RPU-054 | 0 | | | | NO RECORDABLE INDICATIONS |
| | | 1RPU-055 | 25 | | | | NO RECORDABLE INDICATIONS |
| N3-252 | 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 CONFIGURATION. NO SCAN ON NOZZLE SIDE. |
| | | 1RPU-051 | 60 | | | | NO RECORDABLE INDICATIONS. EXAM LIMITED DUE TO NOZZLE CONFIGURATION. NO SCAN ON NOZZLE SIDE. |
| N3-252-IR | VOL | 1RPU-054 | 0 | | | | NO RECORDABLE INDICATIONS |
| | | 1RPU-055 | 25 | | | | NO RECORDABLE INDICATIONS |

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

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

PAGE 002
 DATE 10/22/90

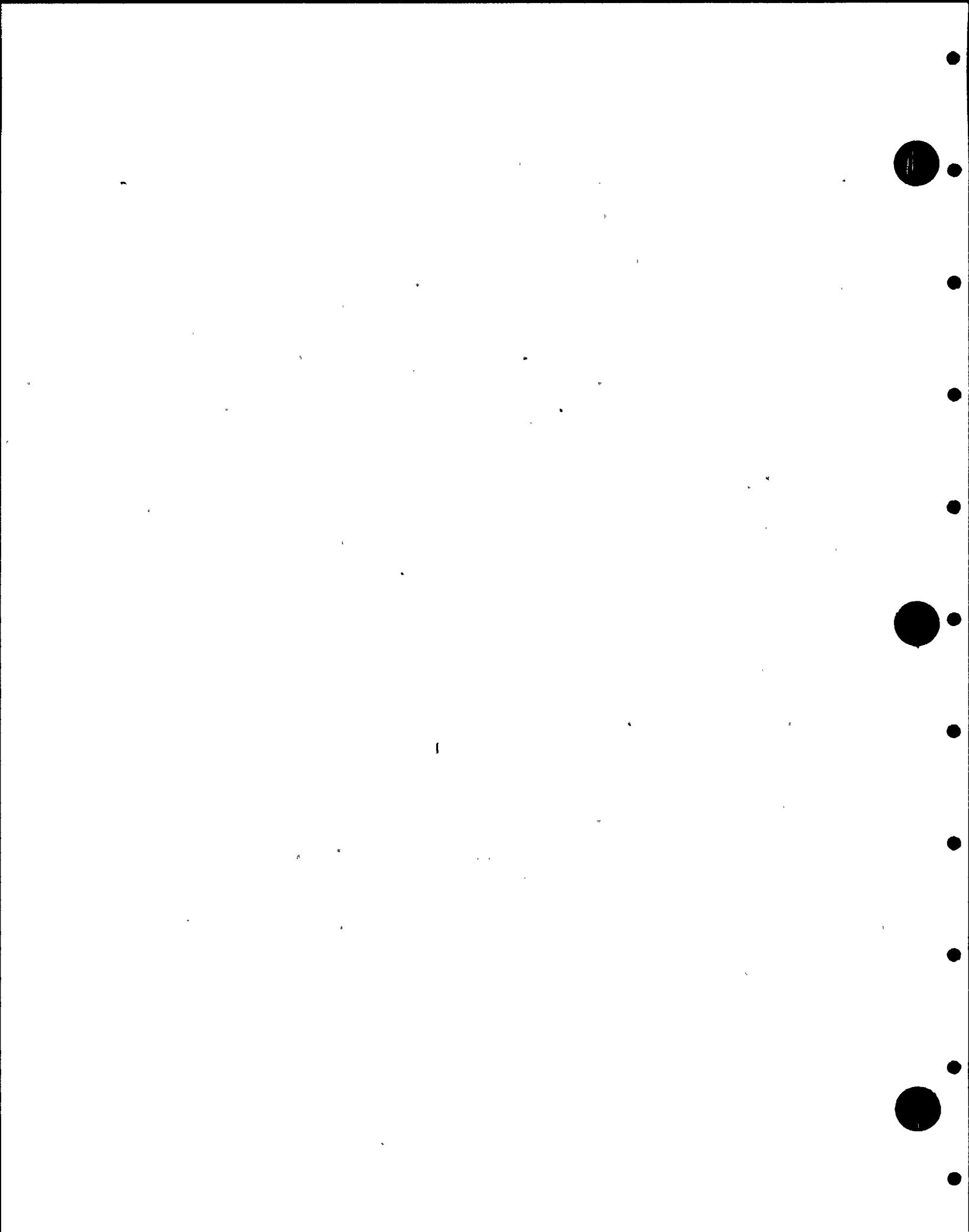
| IDENT. NO. | EXAM. SHEET | EXAM. DATA SHEET NO. | EXAMINATION RESULTS | | | | REMARKS |
|------------|-------------|----------------------|---------------------|-----------------|----------------------|-------|---|
| | | | NO INDIC. | INSIGNIF INDIC. | SIGNIFICANT GEOMETRY | OTHER | |
| N3-288 | VOL | 1RPU-053 | 0 | | | | NO RECORDABLE INDICATIONS. NO SCAN NOZZLE SIDE DUE TO CONFIG. |
| | | 1RPU-052 | 45 | | | | NO RECORDABLE INDICATIONS. EXAM LIMITED DUE TO NOZZLE CONFIGURATION. NO SCAN ON NOZZLE SIDE. |
| | | 1RPU-051 | 60 | | | | NO RECORDABLE INDICATIONS. EXAM LIMITED DUE TO NOZZLE CONFIGURATION. NO SCAN ON NOZZLE SIDE. |
| N3-288-IR | VOL | 1RPU-054 | 0 | | | | NO RECORDABLE INDICATIONS |
| | | 1RPU-055 | 25 | | | | NO RECORDABLE INDICATIONS |
| N4-270-IR | VOL | 1RPU-056 | 25,70 | | | | THREE EXAMINERS RECEIVED 610 MR EXPOSURE ON N4-270-IR & N4-270-NB EXAMINATIONS. |
| N4-270-NB | VOL | 1RPU-056 | 25 | | | | THREE EXAMINERS RECEIVED 610 MR EXPOSURE ON N4-270-IR & N4-270-NB EXAMINATIONS. |

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

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

PAGE 003
 DATE 10/22/90

| IDENT. NO. | EXAM. MTH. | EXAM. DATA SHEET NO. | EXAMINATION RESULTS | | | | REMARKS |
|-------------------|------------|----------------------|---------------------|-----------------|----------------------|-------|---|
| | | | NO INDIC. | INSIGNIF INDIC. | SIGNIFICANT GEOMETRY | OTHER | |
| RPV STUD 35-1-4A | VOL | 1RPU-057 | 0 | | | | NO RECORDABLE INDICATIONS |
| RPV STUD 35-1-11A | SUR | 1RPM-029 | ACC | | | | NO RECORDABLE INDICATIONS |
| | VOL | 1RPU-057 | 0 | | | | NO RECORDABLE INDICATIONS |
| RPV STUD 35-1-18A | SUR | 1RPM-029 | ACC | | | | NO RECORDABLE INDICATIONS |
| | VOL | 1RPU-057 | 0 | | | | NO RECORDABLE INDICATIONS |
| RPV STUD 35-1-25A | SUR | 1RPM-029 | ACC | | | | NO RECORDABLE INDICATIONS |
| | VOL | 1RPU-057 | 0 | | | | NO RECORDABLE INDICATIONS |
| RPV STUD 35-1-32A | SUR | 1RPM-029 | ACC | | | | NO RECORDABLE INDICATIONS |
| | VOL | 1RPU-057 | 0 | | | | NO RECORDABLE INDICATIONS |
| RPV STUD 35-1-39A | SUR | 1RPM-029 | ACC | | | | NO RECORDABLE INDICATIONS |
| | VOL | 1RPU-057 | 0 | | | | NO RECORDABLE INDICATIONS |
| RPV STUD 35-1-46A | SUR | 1RPM-030 | | ACC | | | ONE 1/4" LINEAR INDICATION (AXIAL DIRECTION) IN SHANK, 4-1/2" FROM BASE OF TAPER. |
| | VOL | 1RPU-057 | 0 | | | | NO RECORDABLE INDICATIONS |
| | SUR | 1RPM-030 | ACC | | | | NO RECORDABLE INDICATIONS |



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

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

PAGE 004
 DATE 10/22/90

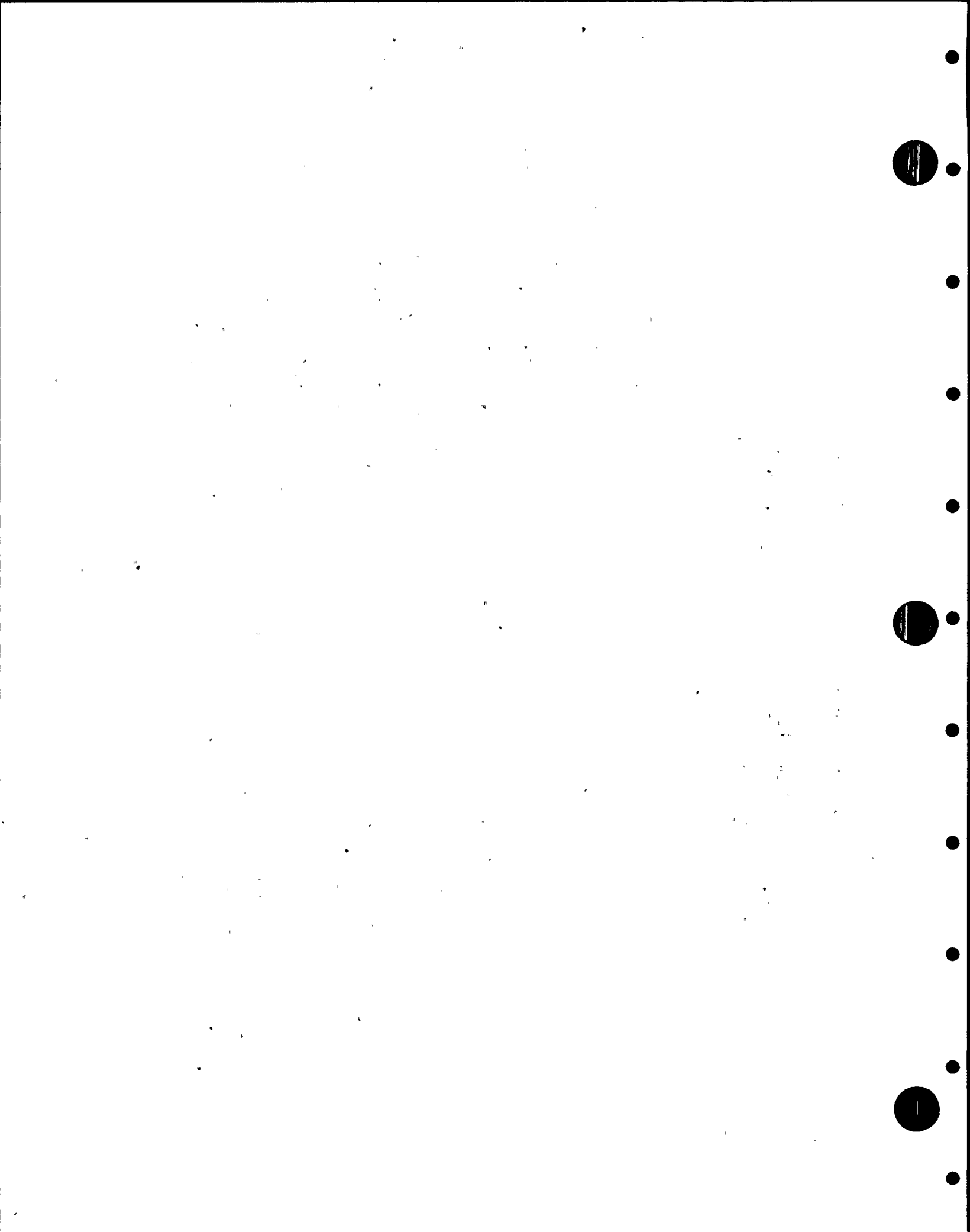
| IDENT. NO. | EXAM. MTH. | EXAM. DATA SHEET NO. | EXAMINATION RESULTS | | | | REMARKS |
|-------------------|------------|----------------------|---------------------|-----------------|----------------------|-------|---------------------------|
| | | | INDIC. | INSIGNIF INDIC. | SIGNIFICANT GEOMETRY | OTHER | |
| RPV STUD 35-1-53A | VOL | 1RPV-057 | 0 | | | | NO RECORDABLE INDICATIONS |
| RPV STUD 35-1-60A | SUR | 1RPM-030 | ACC | | | | NO RECORDABLE INDICATIONS |
| | VOL | 1RPV-057 | 0 | | | | NO RECORDABLE INDICATIONS |
| RPV STUD 35-1-67A | SUR | 1RPM-030 | ACC | | | | NO RECORDABLE INDICATIONS |
| | VOL | 1RPU-057 | 0 | | | | NO RECORDABLE INDICATIONS |
| RPV STUD 35-1-74A | SUR | 1RPV-029 | ACC | | | | NO RECORDABLE INDICATIONS |
| | VOL | 1RPU-057 | 0 | | | | NO RECORDABLE INDICATIONS |
| RPV NUT 36-1-4A | SUR | 1RPM-029 | ACC | | | | NO RECORDABLE INDICATIONS |
| | VOL | 1RPU-058 | 0 | | | | NO RECORDABLE INDICATIONS |
| | | 1RPU-059 | 37 | | | | NO RECORDABLE INDICATIONS |
| | | 1RPU-060 | 45 | | | | NO RECORDABLE INDICATIONS |
| RPV NUT 36-1-11A | SUR | 1RPM-031 | ACC | | | | NO RECORDABLE INDICATIONS |
| | VOL | 1RPU-058 | 0 | | | | NO RECORDABLE INDICATIONS |
| | | 1RPU-059 | 37 | | | | NO RECORDABLE INDICATIONS |
| | | 1RPU-060 | 45 | | | | NO RECORDABLE INDICATIONS |

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

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

PAGE 005
 DATE 10/22/90

| IDENT. NO. | EXAM. MTH. | EXAM. DATA SHEET NO. | EXAMINATION RESULTS | | | | REMARKS |
|------------------|------------|----------------------|---------------------|-----------------|----------------------|-------|---------------------------|
| | | | NO INDIC. | INSIGNIF INDIC. | SIGNIFICANT GEOMETRY | OTHER | |
| RPV NUT 36-1-18A | SUR | 1RPM-031 | ACC | | | | NO RECORDABLE INDICATIONS |
| | VOL | 1RPU-058 | 0 | | | | NO RECORDABLE INDICATIONS |
| | | 1RPU-059 | 37 | | | | NO RECORDABLE INDICATIONS |
| | | 1RPU-060 | 45 | | | | NO RECORDABLE INDICATIONS |
| RPV NUT 36-1-25A | SUR | 1RPM-031 | ACC | | | | NO RECORDABLE INDICATIONS |
| | VOL | 1RPU-058 | 0 | | | | NO RECORDABLE INDICATIONS |
| | | 1RPU-059 | 37 | | | | NO RECORDABLE INDICATIONS |
| | | 1RPU-060 | 45 | | | | NO RECORDABLE INDICATIONS |
| RPV NUT 36-1-32A | SUR | 1RPM-031 | ACC | | | | NO RECORDABLE INDICATIONS |
| | VOL | 1RPU-058 | 0 | | | | NO RECORDABLE INDICATIONS |
| | | 1RPU-059 | 37 | | | | NO RECORDABLE INDICATIONS |
| | | 1RPU-060 | 45 | | | | NO RECORDABLE INDICATIONS |
| RPV NUT 36-1-39A | SUR | 1RPM-031 | ACC | | | | NO RECORDABLE INDICATIONS |
| | VOL | 1RPU-058 | 0 | | | | NO RECORDABLE INDICATIONS |
| | | 1RPU-059 | 37 | | | | NO RECORDABLE INDICATIONS |

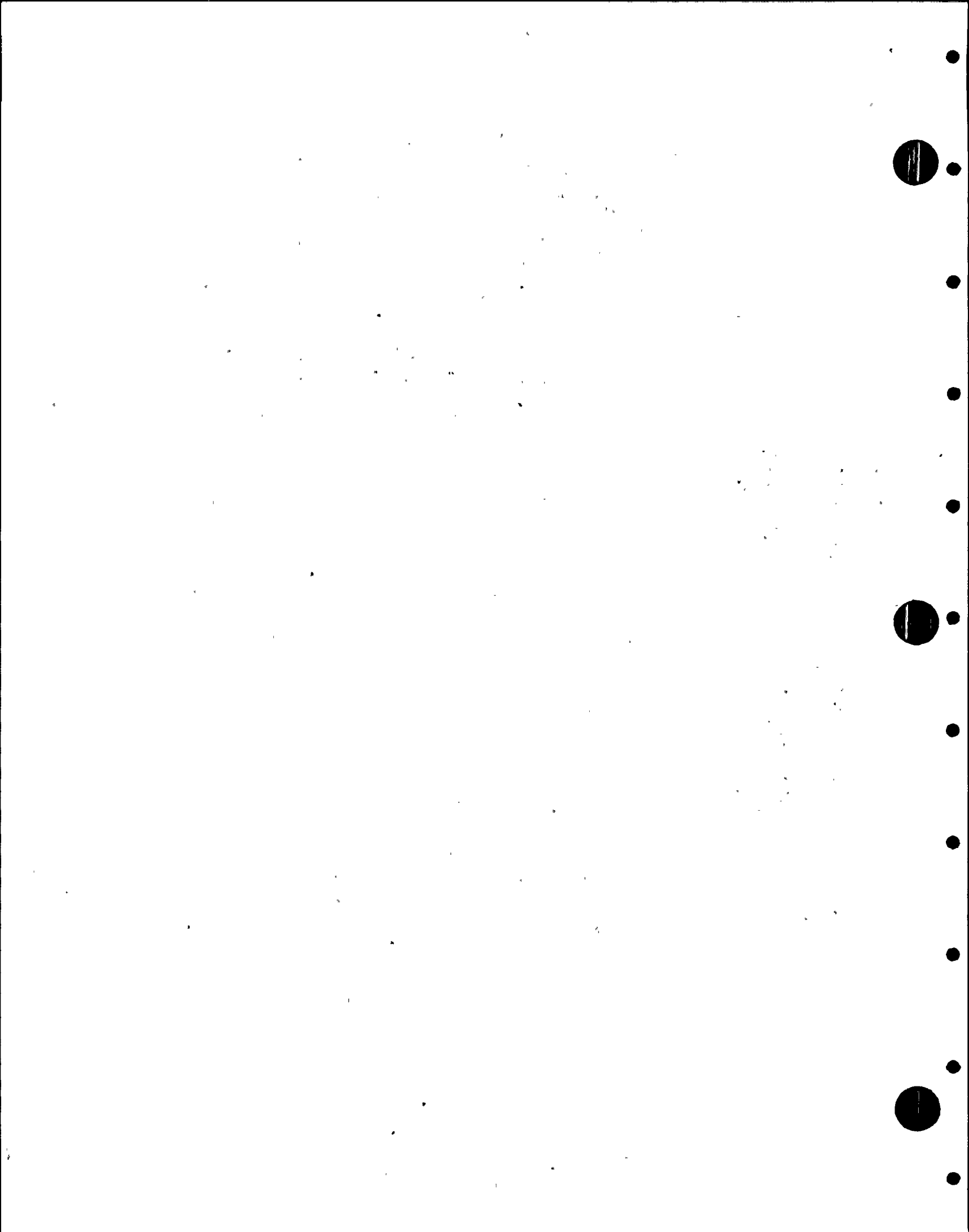


WNP-02
 INTERVAL: 01
 PERIOD: 2
 OUTAGE: R5
 DRAWING NO. RPV-101

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

PAGE 006
 DATE 10/22/90

| IDENT. NO. | EXAM. MTH. | EXAM. DATA SHEET NO. | EXAMINATION RESULTS | | | | REMARKS |
|------------------|------------|----------------------|---------------------|-----------------|----------------------|-------|---------------------------|
| | | | NO INDIC. | INSIGNIF INDIC. | SIGNIFICANT GEOMETRY | OTHER | |
| | | 1RPU-060 | 45 | | | | NO RECORDABLE INDICATIONS |
| RPV NUT 36-1-46A | SUR | 1RPM-031 | ACC | | | | NO RECORDABLE INDICATIONS |
| | VOL | 1RPU-058 | 0 | | | | NO RECORDABLE INDICATIONS |
| | | 1RPU-059 | 37 | | | | NO RECORDABLE INDICATIONS |
| RPV NUT 36-1-53A | | 1RPU-060 | 45 | | | | NO RECORDABLE INDICATIONS |
| | SUR | 1RPM-031 | ACC | | | | NO RECORDABLE INDICATIONS |
| | VOL | 1RPU-058 | 0 | | | | NO RECORDABLE INDICATIONS |
| | | 1RPU-059 | 37 | | | | NO RECORDABLE INDICATIONS |
| RPV NUT 36-1-60A | | 1RPU-060 | 45 | | | | NO RECORDABLE INDICATIONS |
| | SUR | 1RPM-031 | ACC | | | | NO RECORDABLE INDICATIONS |
| | VOL | 1RPU-058 | 0 | | | | NO RECORDABLE INDICATIONS |
| | | 1RPU-059 | 37 | | | | NO RECORDABLE INDICATIONS |
| RPV NUT 36-1-67A | | 1RPU-060 | 45 | | | | NO RECORDABLE INDICATIONS |
| | SUR | 1RPM-031 | ACC | | | | NO RECORDABLE INDICATIONS |
| | VOL | 1RPU-058 | 0 | | | | NO RECORDABLE INDICATIONS |

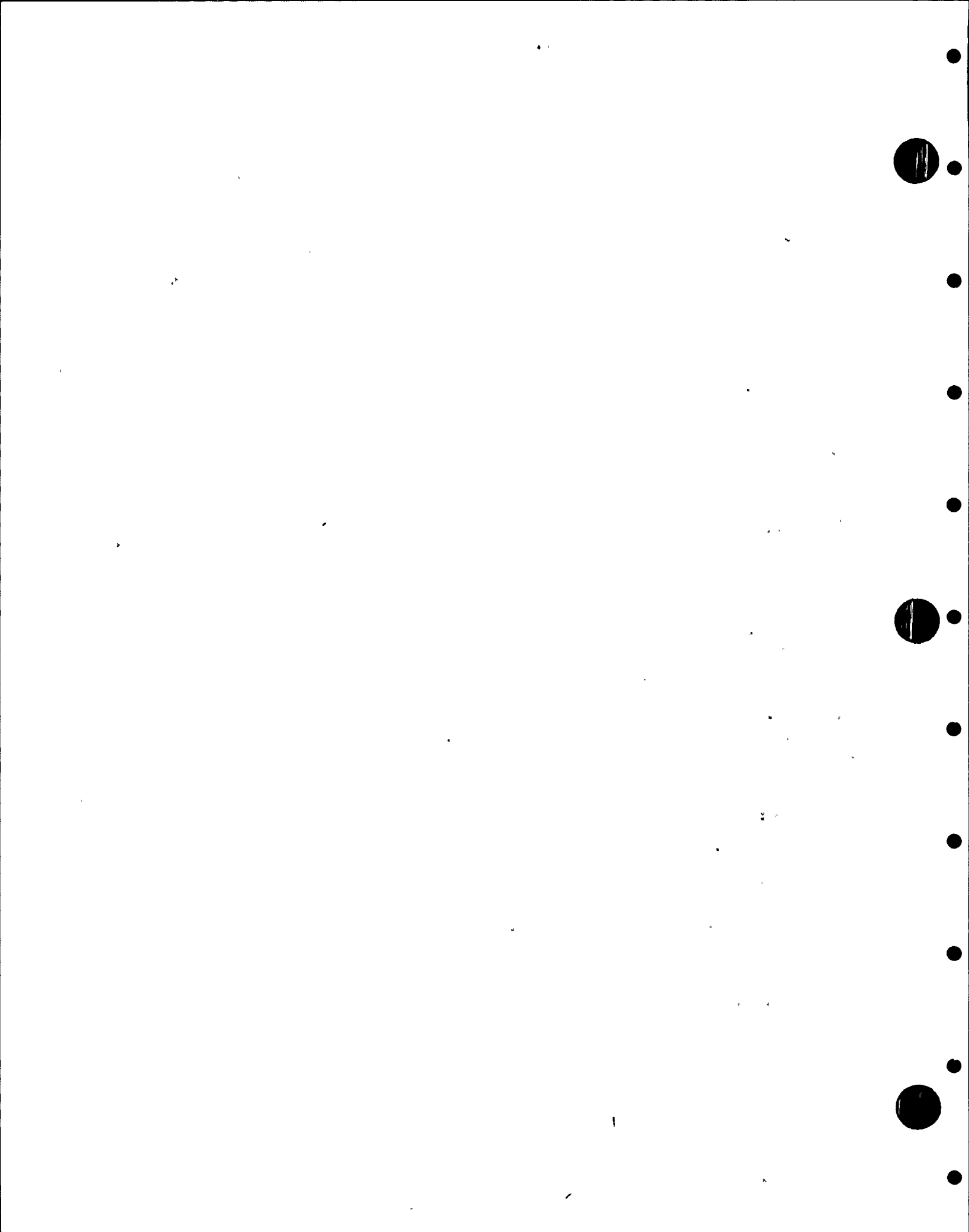


WNP-02
 INTERVAL: 01
 PERIOD: 2
 OUTAGE: R5
 DRAWING NO. RPV-101

WASHINGTON PUBLIC POWER 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. MTH. | EXAM. DATA SHEET NO. | EXAMINATION RESULTS | | | | REMARKS |
|---------------------|---------------|-------------------------------|---------------------|--------------------|-------------------------------|--|--|
| | | | NO INDIC. | INSIGNIF INDIC. | SIGNIFICANT GEOMETRY OTHER | | |
| | | 1RPU-059 | 37 | | | | NO RECORDABLE INDICATIONS |
| | | 1RPU-060 | 45 | | | | NO RECORDABLE INDICATIONS |
| RPV NUT 36-1-74A | SUR | 1RPM-031 | ACC | | | | NO RECORDABLE INDICATIONS |
| | VOL | 1RPU-058 | 0 | | | | NO RECORDABLE INDICATIONS |
| | | 1RPU-059 | 37 | | | | NO RECORDABLE INDICATIONS |
| | | 1RPU-060 | 45 | | | | NO RECORDABLE INDICATIONS |
| RPV WASHERS | SUR | 1RPM-031 | ACC | | | | NO RECORDABLE INDICATIONS |
| | VT-1 | 1RPV-122 | ACC | | | | THE FOLLOWING WASHERS WERE EXAMINED: 36-1-4A, 11A, 18A, 25A, 32A, 39A, 46A, 53A, 60A, 67A, 74A. |
| INCORE DRY TUBES | VT-1 | 1RPV-125 | ACC | | | | NO RECORDABLE INDICATIONS |
| CORE SPRAY SPARGERS | VT-1 | 1RPV-125 | ACC | | | | NO RECORDABLE INDICATIONS |
| STEAM DRYER | VT-1 | 1RPV-125 | ACC | | | | NO RECORDABLE INDICATIONS. |
| RPV INTERIOR | VT-3 | 1RPV-125 | ACC | | | | EXAM LMTD. TO SPEC. HOLDERS. NO ANAOMIES DETECTED IN BRACKETS AND WELDS OF THE TWO SURVEILLANCE SPECIMEN HOLDERS. |



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

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

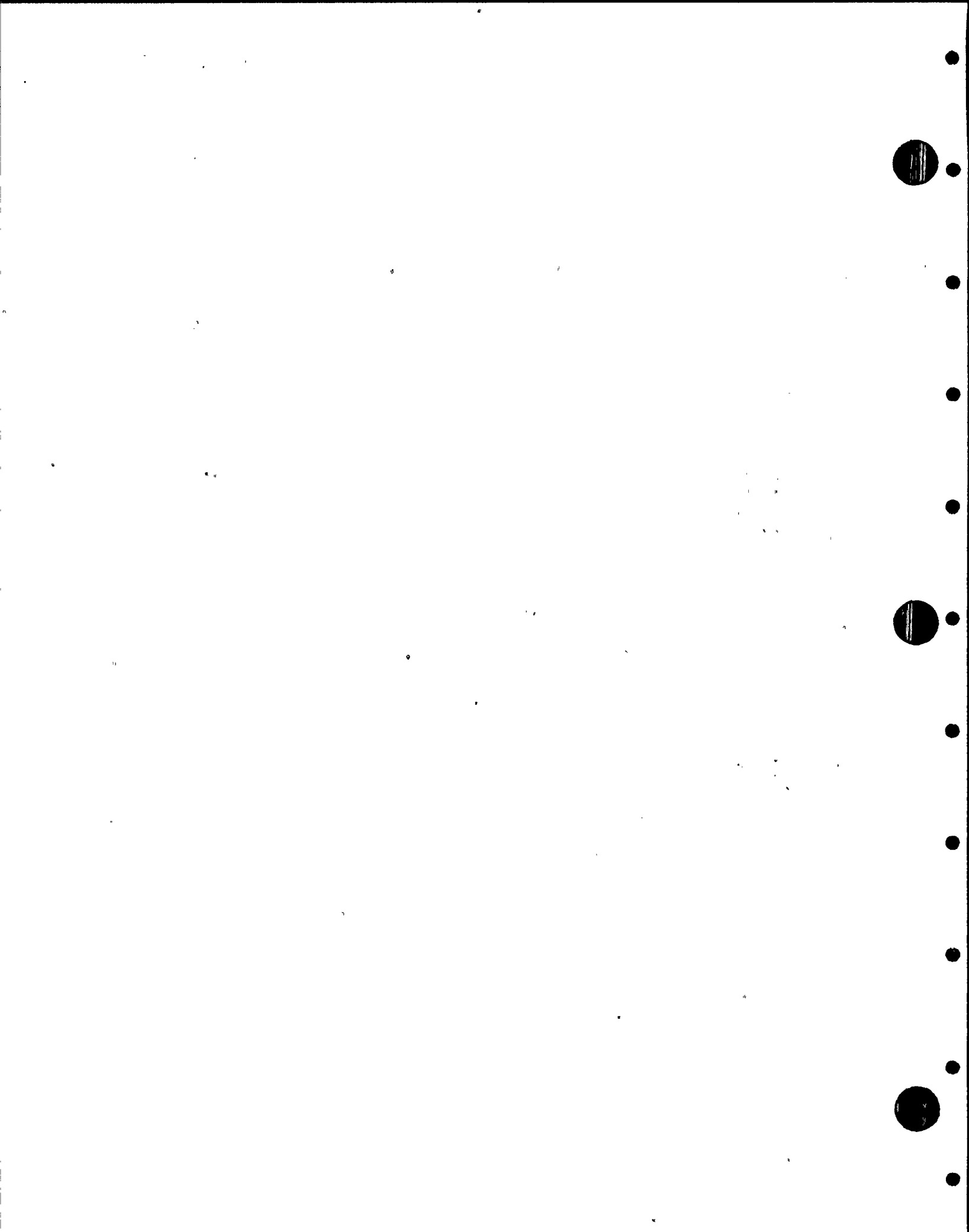
PAGE 008
 DATE 10/22/90

| IDENT..NO. | EXAM. MTH. | EXAM. DATA SHEET NO. | EXAMINATION RESULTS | | | | REMARKS |
|---------------|---------------|-------------------------------|---------------------|--------|----------|-------|---|
| | | | INDIC. | INDIC. | GEOMETRY | OTHER | |
| | VT-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) | VT-2 | 1VT2-90 | ACC | | | | NO RECORDABLE INDICATIONS. |

WNP-02
 INTERVAL: 01
 PERIOD: 2
 OUTAGE: R5
 DRAWING NO. RPV-102

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

| IDENT. NO. | EXAM. MTH. | EXAM. DATA SHEET NO. | EXAMINATION RESULTS | | | | REMARKS |
|-----------------------|------------|----------------------|---------------------|-----------------|----------------------|-------|---|
| | | | INDIC. | INSIGNIF INDIC. | SIGNIFICANT GEOMETRY | OTHER | |
| 6SPARE-18U | VT-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 38-59 BLT | VT-1 | 1RPV-124 | | ACC | | | 2 ACCEP, 6 REJ FOR PITTING CORR. REF ERTR 1-014 FOR EVALUATION. |
| | | 1RPV-116 | ACC | | | | NO RECORDABLE INDICATIONS. PSI ON 8 NEW BOLTS INSTALLED AT R5 |
| CRD HOUSING 18-55 BLT | VT-1 | 1RPV-124 | ACC | | | | 8 REJ. FOR PITTING CORROSION. REF. ERTR 1-014 FOR EVALUATION. |
| | | 1RPV-101 | ACC | | | | NO RECORDABLE INDICATIONS. PSI ON 8 NEW BOLTS INSTALLED AT R5 |
| CRD HOUSING 34-55 BLT | VT-1 | 1RPV-124 | | | | REJ | 2 ACCEP, 6 REJ FOR PITTING CORR. REF. ERTR 1-014 FOR EVALUATION. |
| | | 1RPV-113 | ACC | | | | NO RECORDABLE INDICATIONS. PSI ON 8 NEW BOLTS INSTALLED AT R5 |
| CRD HOUSING 10-51 BLT | VT-1 | 1RPV-124 | | | | REJ | 2 ACCEP, 6 REJ FOR PITTING CORR. THE TWO ACCEPTABLE BOLTS WERE USED IN CRD HOUSING 34-47 AT R5. REF. ERTR 1-014 FOR EVALUATION. |



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

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

EXAM.
 DATA

EXAMINATION RESULTS

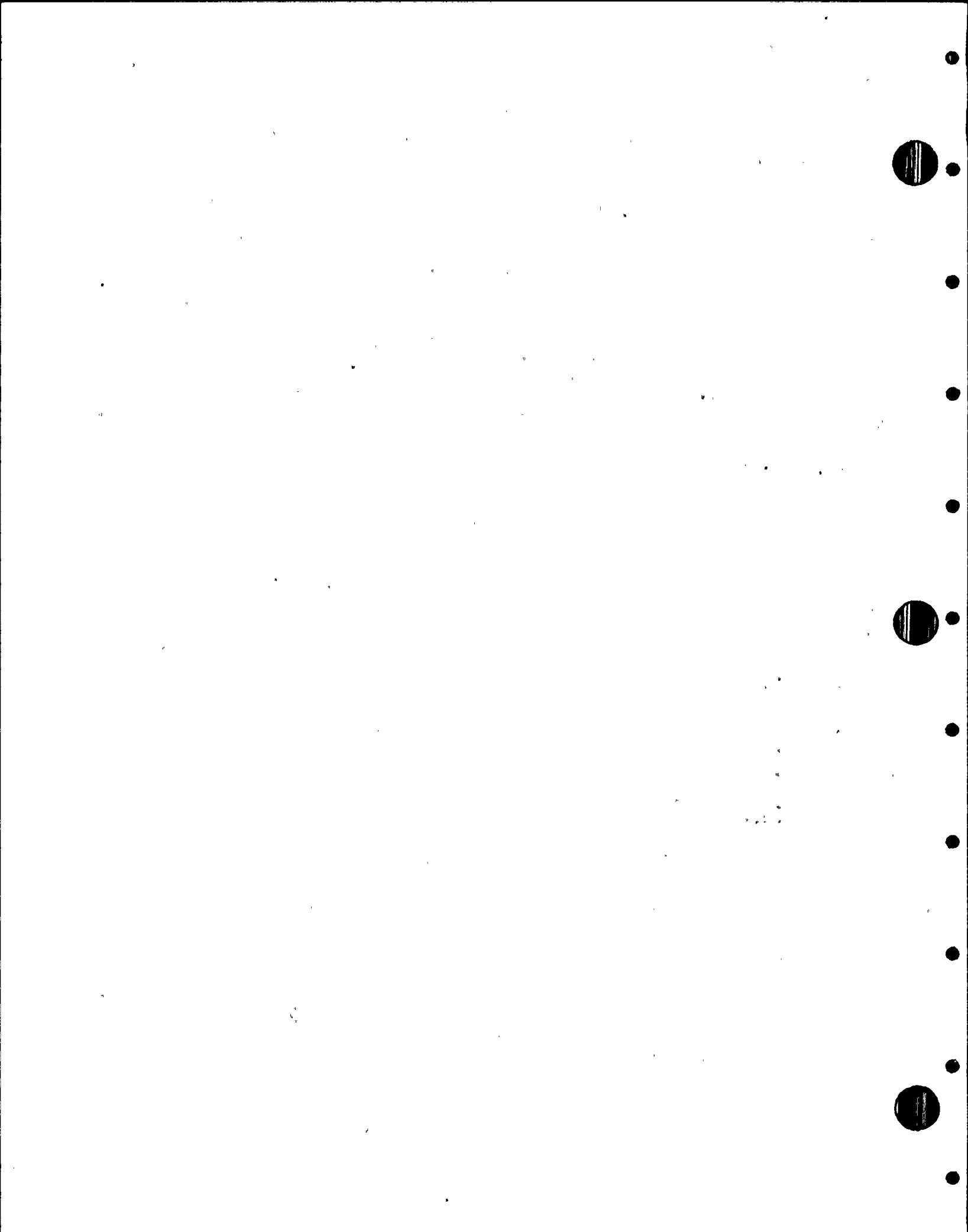
| <u>IDENT. NO.</u> | <u>EXAM. MH.</u> | <u>SHEET NO.</u> | <u>EXAMINATION RESULTS</u> | | | <u>REMARKS</u> |
|-----------------------|------------------|------------------|----------------------------|------------------------|-----------------------------------|--|
| | | | <u>INDIC.</u> | <u>INSIGNIF INDIC.</u> | <u>SIGNIFICANT GEOMETRY OTHER</u> | |
| | | 1RPV-091 | ACC | | | NO RECORDABLE INDICATIONS. PSI ON 8 NEW BOLTS INSTALLED AT R5 |
| CRD HOUSING 14-51 BLT | VT-1 | 1RPV-124 | | | REJ | 4 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 |

WNP-02
 INTERVAL: 01
 PERIOD: 2
 OUTAGE: R5
 DRAWING NO. RPV-102

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

PAGE 003
 DATE 10/22/90

| IDENT. NO. | EXAM. MTH. | EXAM. DATA SHEET NO. | EXAMINATION RESULTS | | | REMARKS |
|-----------------------|------------|----------------------|---------------------|-----------------|----------------------------|--|
| | | | NO INDIC. | INSIGNIF INDIC. | SIGNIFICANT GEOMETRY OTHER | |
| CRD HOUSING 26-51 BLT | VT-1 | 1RPV-124 | | | REJ | 3 ACCEP, 5 REJ FOR PITTING CORR. REF. ERTR 1-014 FOR EVALUATION. |
| | | 1RPV-107 | ACC | | | NO RECORDABLE INDICATIONS. PSI ON 8 NEW BOLTS INSTALLED AT R5 |

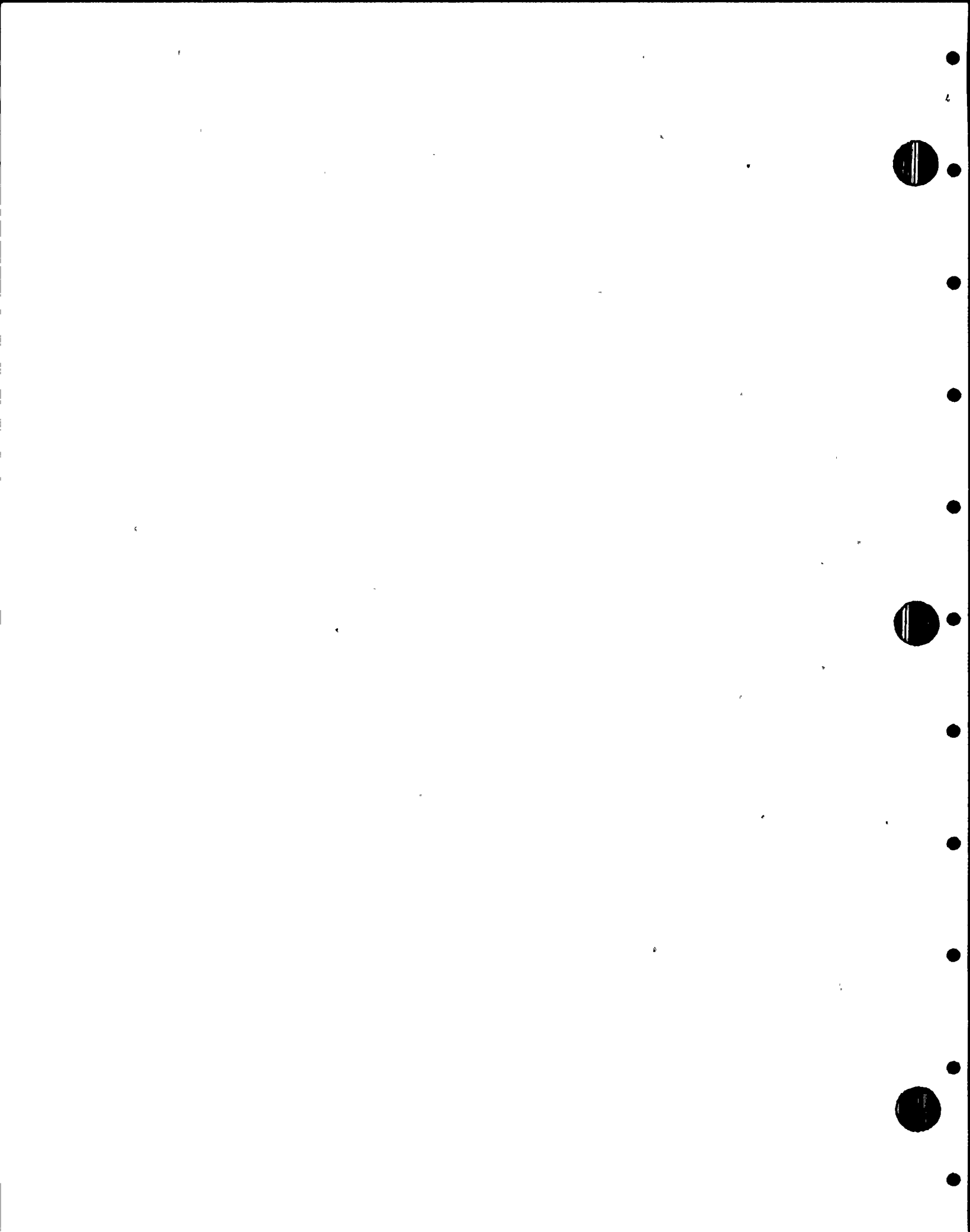


WNP-02
 INTERVAL: 01
 PERIOD: 02
 OUTAGE: R5
 DRAWING NO. RPV-102

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

PAGE 004
 DATE 10/22/90

| IDENT. NO. | EXAM. MTH. | EXAM. DATA SHEET NO. | EXAMINATION RESULTS | | | | REMARKS |
|-------------------------------|------------|----------------------|---------------------|-----------------|----------------------|-------|--|
| | | | NO INDIC. | INSIGNIF INDIC. | SIGNIFICANT GEOMETRY | OTHER | |
| CRD HOUSING 10-47 BLT VT-1 | | 1RPV-124 | | | REJ | | 6 ACCEP, 2 REJ FOR PITTING CORR. REF. ERTR 1-014 FOR EVALUATION. |
| | | 1RPV-090 | ACC | | | | NO RECORDABLE INDICATIONS. PSI OK 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 OK 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. |
| | | 1RPV-096 | ACC | | | | NO RECORDABLE INDICATIONS. PSI OK 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. |



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

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

PAGE 005
 DATE 10/22/90

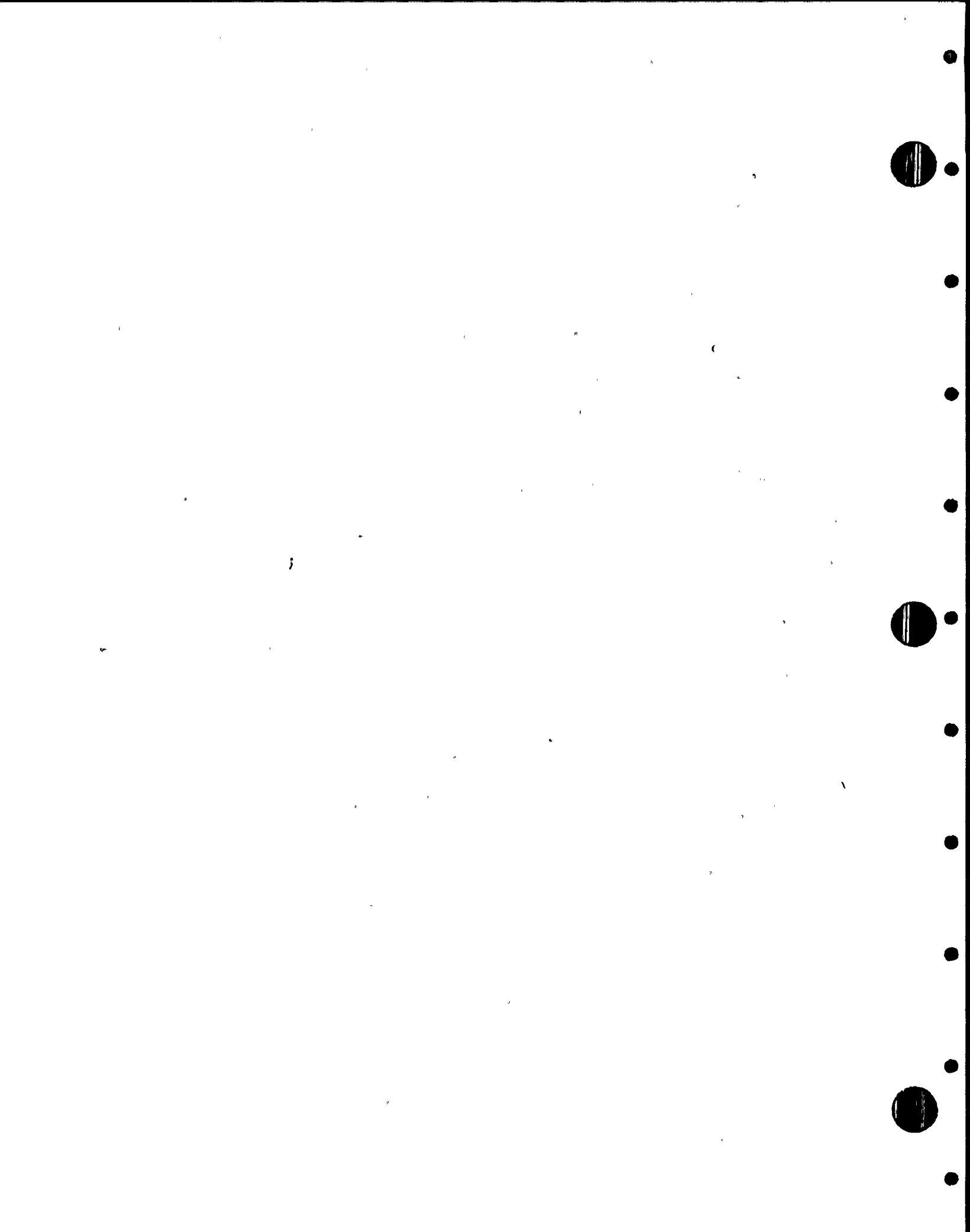
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|-----------------------|------------|----------------------|---------------------|-----------------|----------------------|-------|--|
| | | | NO INDIC. | INSIGNIF INDIC. | SIGNIFICANT GEOMETRY | OTHER | |
| | | 1RPV-115 | ACC | | | | NO RECORDABLE INDICATIONS. PSI ON 8 NEW BOLTS INSTALLED AT R5 |
| CRD HOUSING 02-39 BLT | VT-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 BLT | VT-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 8 NEW BOLTS INSTALLED AT R5 |
| CRD HOUSING 18-39 BLT | VT-1 | 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 BLT | VT-1 | 1RPV-124 | | | REJ | | 8 REJ FOR PITTING CORROSION. REF. ERTR 1-014 FOR EVALUATION. |
| | | 1RPV-102 | ACC | | | | NO RECORDABLE INDICATIONS. PSI ON 8 NEW BOLTS INSTALLED AT R5 |

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

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

PAGE 006
 DATE 10/22/90

| IDENT. NO. | EXAM. MTH. | EXAM. DATA SHEET NO. | EXAMINATION RESULTS | | | | REMARKS |
|-----------------------|------------|----------------------|---------------------|-----------------|----------------------|-------|--|
| | | | NO INDIC. | INSIGNIF INDIC. | SIGNIFICANT GEOMETRY | OTHER | |
| CRD HOUSING 26-35 BLT | VT-1 | 1RPV-124 | | | REJ | | 8 REJ FOR PITTING CORROSION. REF. ERTR 1-014 FOR EVALUATION. |
| | | 1RPV-105 | ACC | | | | NO RECORDABLE INDICATIONS. PSI ON 8 NEW BOLTS INSTALLED AT R5 |
| CRD HOUSING 10-27 BLT | VT-1 | 1RPV-124 | | | REJ | | 3 ACCEP, 5 REJ FOR PITTING CORR. REF. ERTR 1-014 FOR EVALUATION. |
| | | 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. |
| | | 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. |
| | | 1RPV-118 | ACC | | | | NO RECORDABLE INDICATIONS. PSI ON 8 NEW BOLTS INSTALLED AT R5 |
| CRD HOUSING 10-23 BLT | 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 |

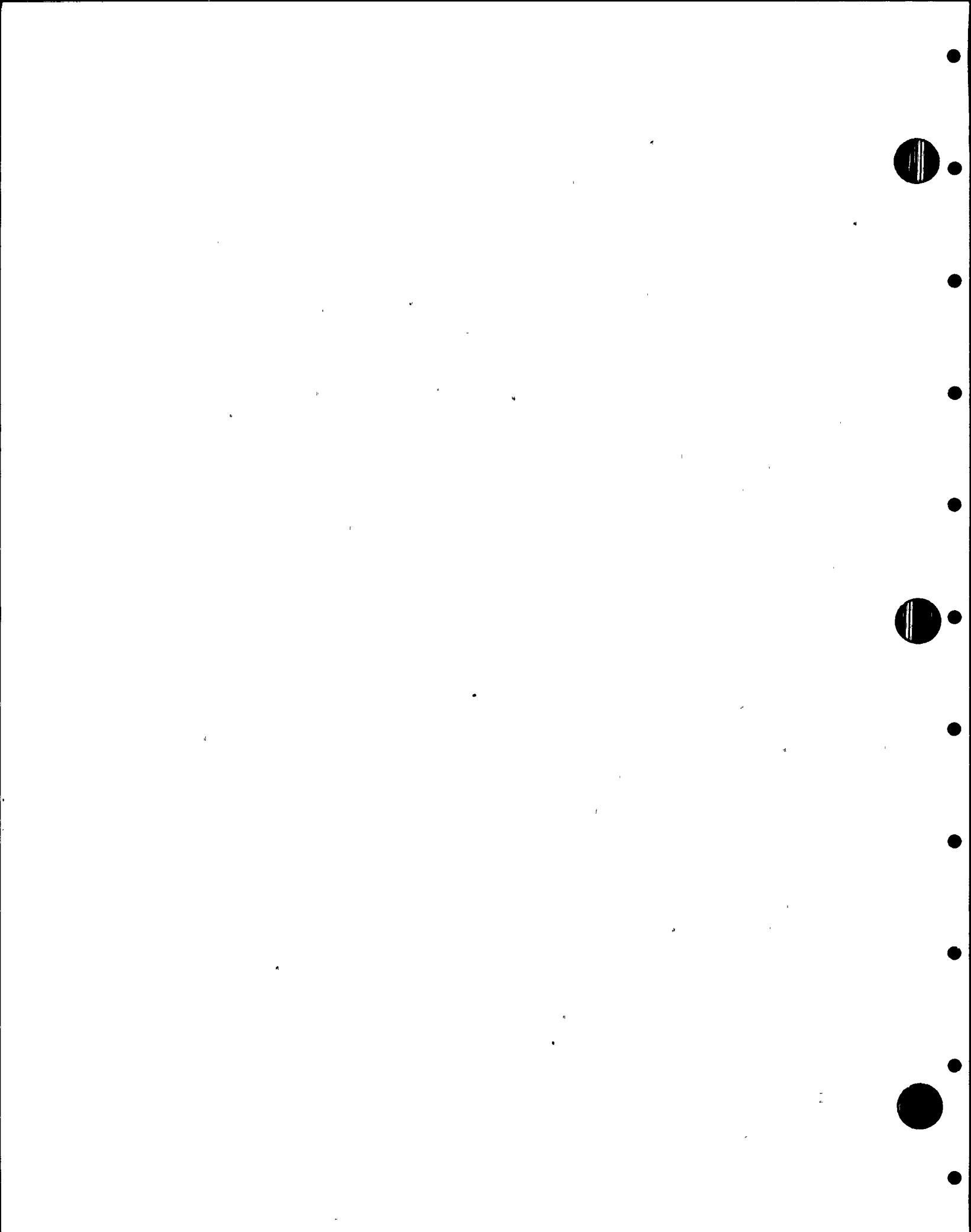


WNP-02
 INTERVAL: 01
 PERIOD: 02
 OUTAGE: R5
 DRAWING NO. RPV-102

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

PAGE 007
 DATE 10/22/90

| IDENT. NO. | EXAM. MTH. | EXAM. SHEET NO. | EXAMINATION RESULTS | | | | REMARKS |
|-----------------------|------------|-----------------|---------------------|-----------------|----------------------|-------|--|
| | | | NO INDIC. | INSIGNIF INDIC. | SIGNIFICANT GEOMETRY | OTHER | |
| CRD HOUSING 14-23 BLT | 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. |
| | | 1RPV-099 | | | REJ | | NO RECORDABLE INDICATIONS. PSI ON 8 NEW BOLTS INSTALLED AT R5 |
| CRD HOUSING 34-23 BLT | VT-1 | 1RPV-124 | | | REJ | | 5 ACC, 3 REJ FOR PITTING CORR. REF ERTR 1-014 FOR EVALUATION. |
| | | 1RPV-111 | ACC | | | | NO RECORDABLE INDICATIONS. PSI ON 8 NEW BOLTS INSTALLED AT R5 |
| CRD HOUSING 02-19 BLT | VT-1 | 1RPV-124 | | | REJ | | 4 ACCEP, 4 REJ FOR PITTING CORR. REF. ERTR 1-014 FOR EVALUATION. |
| | | 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 POWER SUPPLY SYSTEM
 NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
 SYSTEM OR COMPONENT RPV
 DESCRIPTION: TOP & BTM HD NOZZLES

PAGE 008
 DATE 10/22/90

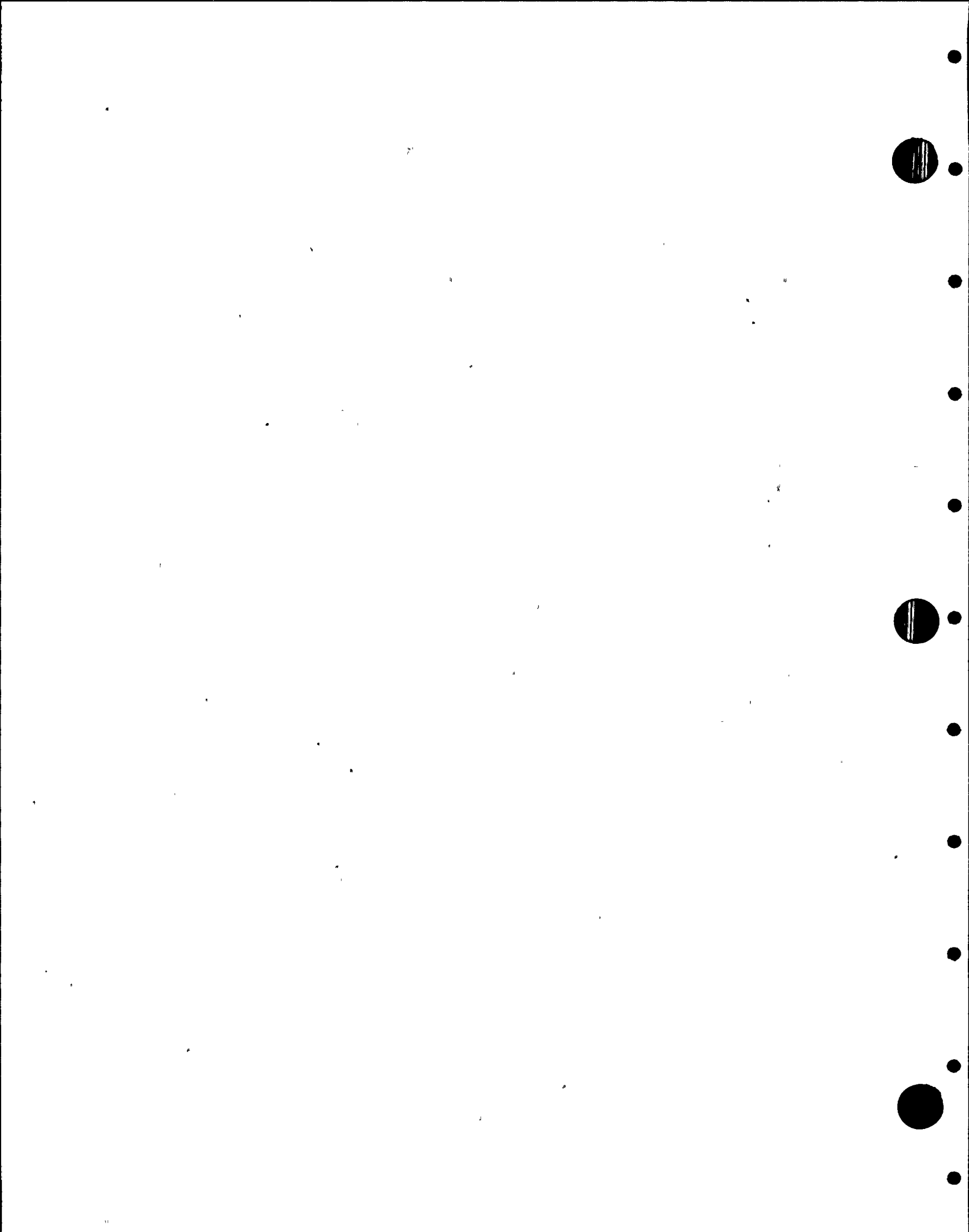
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|-----------------------|------------|----------------------|---------------------|-----------------|----------------------|-------|---|
| | | | NO INDIC. | INSIGNIF INDIC. | SIGNIFICANT GEOMETRY | OTHER | |
| | | 1RPV-087 | ACC | | | | NO RECORDABLE INDICATIONS. PSI ON 8 NEW BOLTS INSTALLED AT R5 |
| CRD HOUSING 26-19 BLT | VT-1 | 1RPV-124 | | | REJ | | 4 ACCEP, 4 REJ FOR PITTING CORR. REF. ERTR 1-014 FOR EVALUATION. |
| | | 1RPV-104 | ACC | | | | NO RECORDABLE INDICATIONS. PSI ON 8 NEW BOLTS INSTALLED AT R5 |
| CRD HOUSING 34-19 BLT | VT-1 | 1RPV-124 | | | REJ | | 6 ACCEP, 2 REJ FOR PITTING CORR. REF. ERTR 1-014 FOR EVALUATION. |
| | | 1RPV-110 | ACC | | | | NO RECORDABLE INDICATIONS. PSI ON 8 NEW BOLTS INSTALLED AT R5 |
| CRD HOUSING 38-19 BLT | 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 |

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

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

PAGE 009
 DATE 10/22/90

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

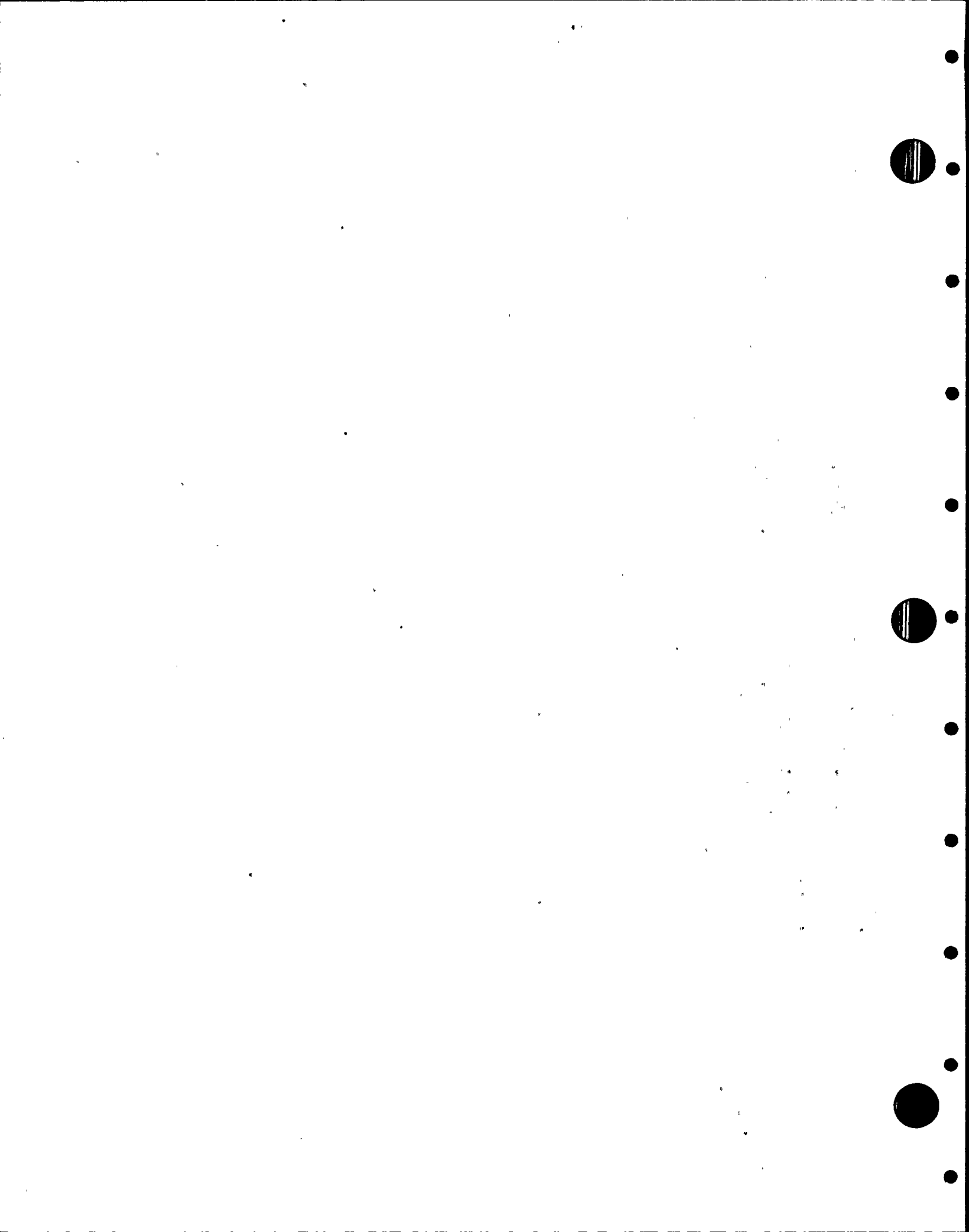


WNP-02
 INTERVAL: 01
 PERIOD: 02
 OUTAGE: R5
 DRAWING NO. RPV-102

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

PAGE 010
 DATE 10/22/90

| IDENT. NO. | EXAM. SHEET | EXAM. DATA SHEET NO. | EXAMINATION RESULTS | | | REMARKS |
|-----------------------|-------------|----------------------|---------------------|-----------------|----------------------------|--|
| | | | NO INDIC. | INSIGNIF INDIC. | SIGNIFICANT GEOMEIRY OTHER | |
| CRD HOUSING 42-03 BLT | VT-1 | 1RPV-124 | | | REJ | 1 ACCEP, 7 REJ FOR PITTING CORR. REF. ERTR 1-014 FOR EVALUATION. |
| | | 1RPV-117 | ACC | | | NO RECORDABLE INDICATIONS. PSI ON 8 NEW BOLTS INSTALLED AT R5. |
| RPV-PB-102(L) | VT-2 | 1VT2-90 | ACC | | | NO RECORDABLE INDICATIONS. |

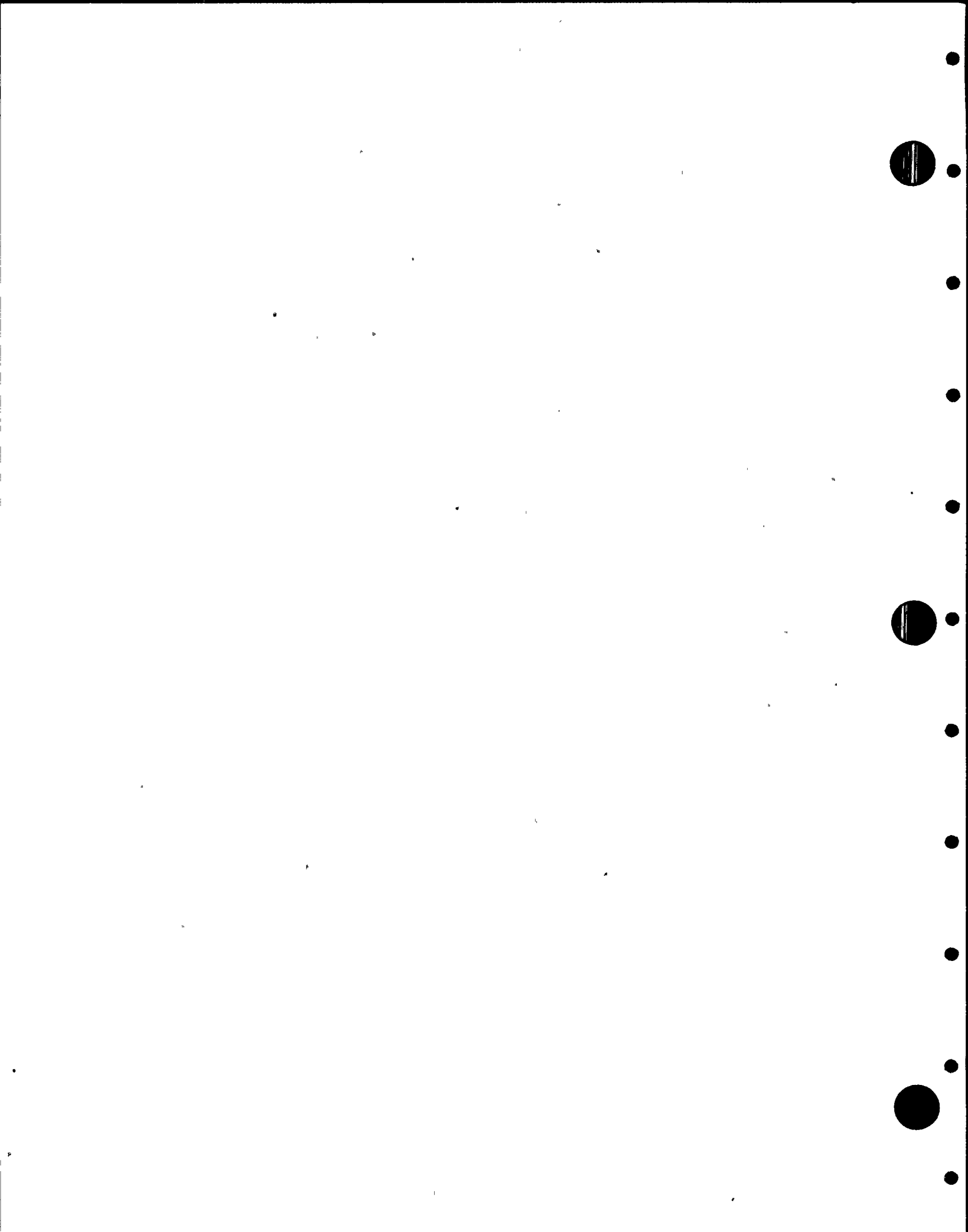


WNP-02
INTERVAL: 01
PERIOD: 02
OUTAGE: R5
DRAWING NO. RCIC-101

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

PAGE 001
DATE 10/22/90

| <u>IDENT. NO.</u> | <u>EXAM. MTH.</u> | <u>EXAM. SHEET NO.</u> | <u>EXAMINATION RESULTS</u> | | | <u>REMARKS</u> |
|-------------------|-------------------|------------------------|----------------------------|-----------------|-----------------------|--------------------------------|
| | | | <u>NO</u> | <u>INSIGNIF</u> | <u>SIGNIFICANT</u> | |
| | | | <u>INDIC.</u> | <u>INDIC.</u> | <u>GEOMETRY OTHER</u> | |
| RCIC-V-64-BLT | VT-1 | 1RIV-007 | ACC | | | VIS. EXAM WITH BOLTS IN PLACE. |



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

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

PAGE 002
 DATE 10/22/90

| IDENT. NO. | EXAM. MTH. | EXAM. DATA SHEET NO. | EXAMINATION RESULTS | | | REMARKS |
|--------------|------------|----------------------|---------------------|-----------------|----------------------------|---|
| | | | NO INDIC. | INSIGNIF INDIC. | SIGNIFICANT GEOMETRY OTHER | |
| 4RCIC(13)-4 | VOL | 1RIU-036 | | 45 | | 1 IND. AT 80% DAC; LIMITED DNST SCANS DUE TO 1" DRAIN LINE CONFIG. |
| 4RCIC(13)-5 | VOL | 1RIU-037 | | 45 | | 1 IND. AT 100% DAC. LIMITED UPSTM SCAN DUE TO 1" DRAIN LINE CONFIG. |
| RCIC-72 | VT3H | 1HV-0193 | ACC | | | NO RECORDABLE INDICATIONS |
| 4RCIC(13)-6 | VOL | 1RIU-038 | | 45 | | ID GEOMETRY NOTED AT 50-60% DAC. |
| 4RCIC(13)-7 | VOL | 1RIU-039 | | 45 | | ID GEOMETRY NOTED AT 80% DAC. |
| RCIC-1C-16 | VT3H | 1HV-0193 | ACC | | | NO RECORDABLE INDICATIONS |
| RCIC-1C-7 | VT3H | 1HV-0193 | ACC | | | NO RECORDABLE INDICATIONS |
| 4RCIC(13)-8 | VOL | 1RIU-040 | | 45 | | ID GEOMETRY NOTED AT 80% DAC. |
| RCIC-68 | VT3H | 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 | VT3H | 1HV-0193 | ACC | | | NO RECORDABLE INDICATIONS |
| 4RCIC(13)-9 | VOL | 1RIU-041 | | 45 | | ID GEOMETRY NOTED AT 80% DAC. |
| 4RCIC(13)-10 | VOL | 1RIU-042 | | 45 | | ID GEOMETRY NOTED AT 60-70% DAC. |

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

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

PAGE 003
 DATE 10/22/90

| IDENT. NO. | EXAM. SHEET | EXAM. DATA SHEET NO. | EXAMINATION RESULTS | | | REMARKS |
|----------------|-------------|----------------------|---------------------|----------|-------------|--|
| | | | INDIC. | INSIGNIF | SIGNIFICANT | |
| 4RCIC(13)-11 | VT-2 | 1VT2-90 | ACC | | | |
| | VOL | 1RIU-043 | 45 | | | LIMITED DSTM AXIAL SCAN DUE TO CONFIG. OF WELDED LUGS. |
| RCIC-PB-101(L) | VT-2 | 1VT2-90 | ACC | | | NO RECORDABLE INDICATIONS. |

WNP-02
 INTERVAL: 01
 PERIOD: 2
 OUTAGE: R5
 DRAWING NO. RCIC-102

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

PAGE 001
 DATE 10/22/90

| IDENT. NO. | EXAM. MTH. | EXAM. DATA SHEET NO. | EXAMINATION RESULTS | | | | REMARKS |
|----------------|------------|----------------------|---------------------|-----------------|----------------------|-------|---------------------------|
| | | | NO INDIC. | INSIGNIF INDIC. | SIGNIFICANT GEOMETRY | OTHER | |
| RCIC-127 | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |
| RCIC-936N | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |
| RCIC-935N | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |
| RCIC-941N | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |
| RCIC-934N | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |
| RCIC-933N | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |
| RCIC-932N | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |
| RCIC-128 | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |
| RCIC-129 | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |
| RCIC-P8-102(L) | VT-2 | 1VT2-90 | ACC | | | | NO RECORDABLE INDICATIONS |

WNP-02
 INTERVAL: 01
 PERIOD: 2
 OUTAGE: R5
 DRAWING NO. RCIC-205

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

PAGE 001
 DATE 10/22/90

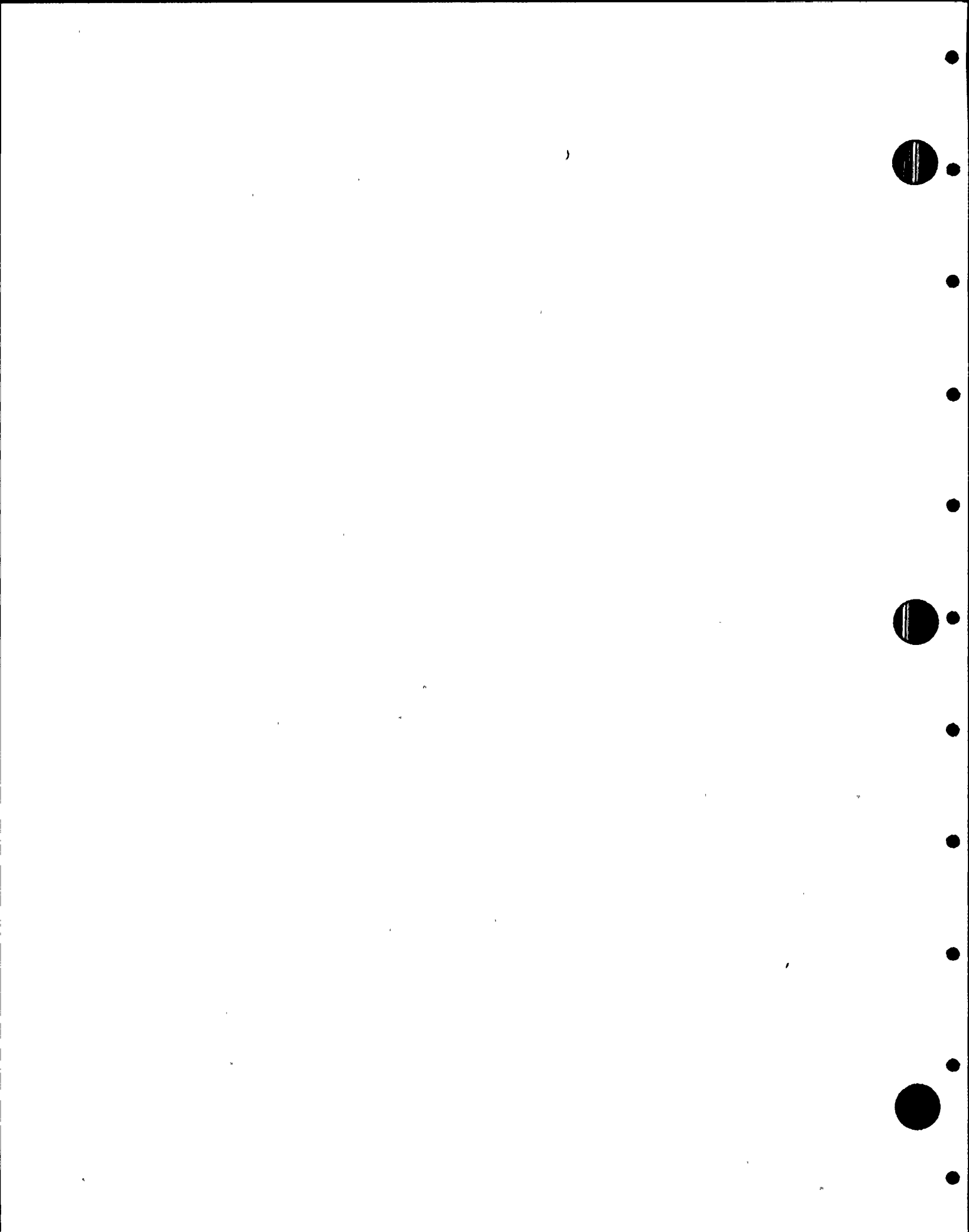
| IDENT. NO. | EXAM. MTH. | EXAM. DATA SHEET NO. | EXAMINATION RESULTS | | | | REMARKS |
|-------------|------------|----------------------|---------------------|-----------------|----------------------|-------|--|
| | | | NO INDIC. | INSIGNIF INDIC. | SIGNIFICANT GEOMETRY | OTHER | |
| RCIC-955N | | | | | | | |
| | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |
| RCIC-954N | | | | | | | |
| | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |
| 6RCIC(1)-82 | | | | | | | |
| | VOL | 1RIU-031 | | 45 | | | 1 IND. AT 65% DAC. |
| | SUR | 1RIM-024 | ACC | | | | NO RECORDABLE INDICATIONS |
| RCIC-22 | | | | | | | |
| | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |
| RCIC-952N | | | | | | | |
| | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |
| RCIC-29 | | | | | | | |
| | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |
| 6RCIC(1)-88 | | | | | | | |
| | VOL | 1RIU-035 | | 45 | | ACC | ID GEOMETRY 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. ETR 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 ETR NO. 1-009. |
| RCIC-86 | | | | | | | |
| | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |

WNP-02
 INTERVAL: 01
 PERIOD: 2
 OUTAGE: R5
 DRAWING NO. RCIC-205

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

PAGE 002
 DATE 10/22/90

| IDENT. NO. | EXAM. MTH. | EXAM. DATA SHEET NO. | EXAMINATION RESULTS | | | | REMARKS |
|--------------|------------|----------------------|---------------------|-----------------|----------------------|-------|---|
| | | | NO INDIC. | INSIGNIF INDIC. | SIGNIFICANT GEOMETRY | OTHER | |
| 6RCIC(1)-99 | VOL | 1RIU-034 | 45 | | | | UNACCEPTABLE 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. |
| RCIC-88 | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |
| RCIC-90 | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |
| RCIC-91 | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |
| RCIC-93 | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |
| RCIC-95 | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |
| 6RCIC(1)-105 | VOL | 1RIU-033 | | 45 | | | ID GEOMETRY NOTED AT 100% DAC. |
| | SUR | 1RIM-025 | ACC | | | | NO RECORDABLE INDICATIONS |
| RCIC-97 | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |
| RCIC-98 | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |



WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R5
DRAWING NO. RCIC-205

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

PAGE 003
DATE 10/22/90

| <u>IDENT. NO.</u> | <u>EXAM. MTH.</u> | <u>EXAM. DATA SHEET NO.</u> | <u>EXAMINATION RESULTS</u> | | | | <u>REMARKS</u> | |
|-------------------|-------------------|-----------------------------|----------------------------|------------------------|--------------------|--------------|----------------|--|
| | | | <u>NO INDIC.</u> | <u>INSIGNIF INDIC.</u> | <u>SIGNIFICANT</u> | | | |
| | | | | | <u>GEOMETRY</u> | <u>OTHER</u> | | |
| RCIC-99 | | | | | | | | |
| | VT3H | 1HV-0193 | ACC | | | | | NO RECORDABLE INDICATIONS |
| RCIC-100 | | | | | | | | |
| | VT3H | 1HV-0193 | ACC | | | | | NO RECORDABLE INDICATIONS |
| 6RCIC(22)-10 | | | | | | | | |
| | VOL | 1RIU-032 | 45 | | | | | LIMITED DNST AXIAL SCANS DUE TO TEE CCNFIGURATION. |
| | | | | | | | | |
| | SUR | 1RIM-023 | ACC | | | | | NO RECORDABLE INDICATIONS |

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

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

PAGE 001
DATE 10/22/90

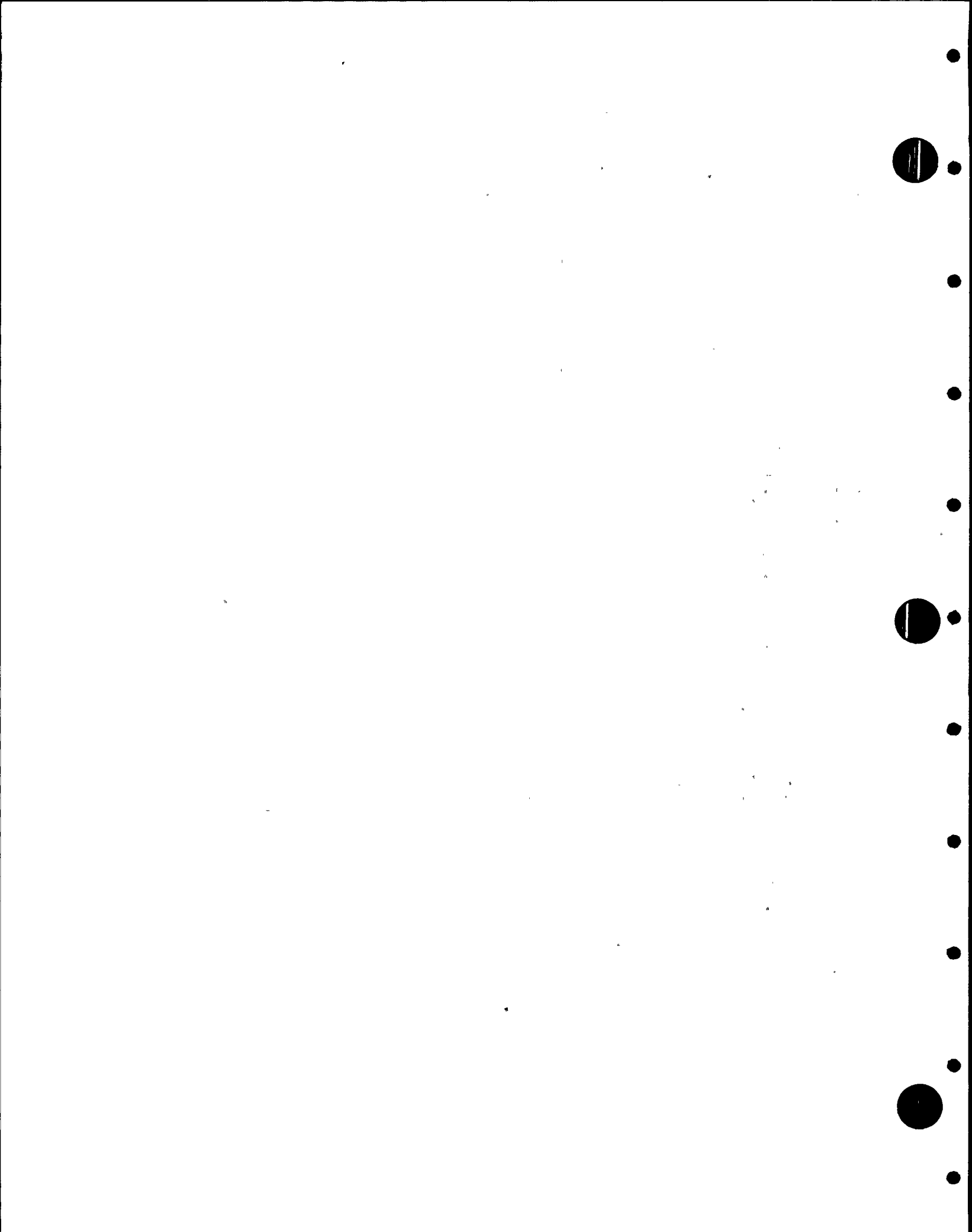
| <u>IDENT. NO.</u> | <u>EXAM. MTH.</u> | <u>EXAM. DATA SHEET NO.</u> | <u>EXAMINATION RESULTS</u> | | | | <u>REMARKS</u> |
|-------------------|-------------------|-----------------------------|----------------------------|---------------|-----------------|--------------------|----------------------------|
| | | | <u>INDIC.</u> | <u>INDIC.</u> | <u>INSIGNIF</u> | <u>SIGNIFICANT</u> | |
| HPCS-P8-101(L) | VT-2 | 1VT2-90 | ACC | | | | NO RECORDABLE INDICATIONS. |

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

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

PAGE 001
 DATE 10/22/90

| IDENT. NO. | EXAM. MTH. | EXAM. DATA SHEET NO. | EXAMINATION RESULTS | | | | REMARKS |
|--------------|------------|----------------------|---------------------|-----------------|----------------------|-------|---|
| | | | NO INDIC. | INSIGNIF INDIC. | SIGNIFICANT GEOMETRY | OTHER | |
| HPCS-1 | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |
| 16HPCS(1)-7 | 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 | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |
| HPCS-21 | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |
| HPCS-20 | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |
| HPCS-903N | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |
| HPCS-24 | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |
| HPCS-25 | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |
| HPCS-26 | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |
| 16HPCS(1)-27 | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |
| | VOL | 1HPU-012 | | 45 | | | ID GEOMETRY NOTED AT 65% DAC. |



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

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

PAGE 002
 DATE 10/22/90

| IDENT. NO. | EXAM. SHEET NO. | EXAM. DATA SHEET NO. | EXAMINATION RESULTS | | | | REMARKS |
|------------|-----------------|----------------------|---------------------|-----------------|----------------------|-------|---------------------------|
| | | | NO INDIC. | INSIGNIF INDIC. | SIGNIFICANT GEOMETRY | OTHER | |
| HPCS-27 | SUR | 1HPM-006 | ACC | | | | NO RECORDABLE INDICATIONS |
| HPCS-28 | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |
| HPCS-917N | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |
| HPCS-915N | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |
| HPCS-909N | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |



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

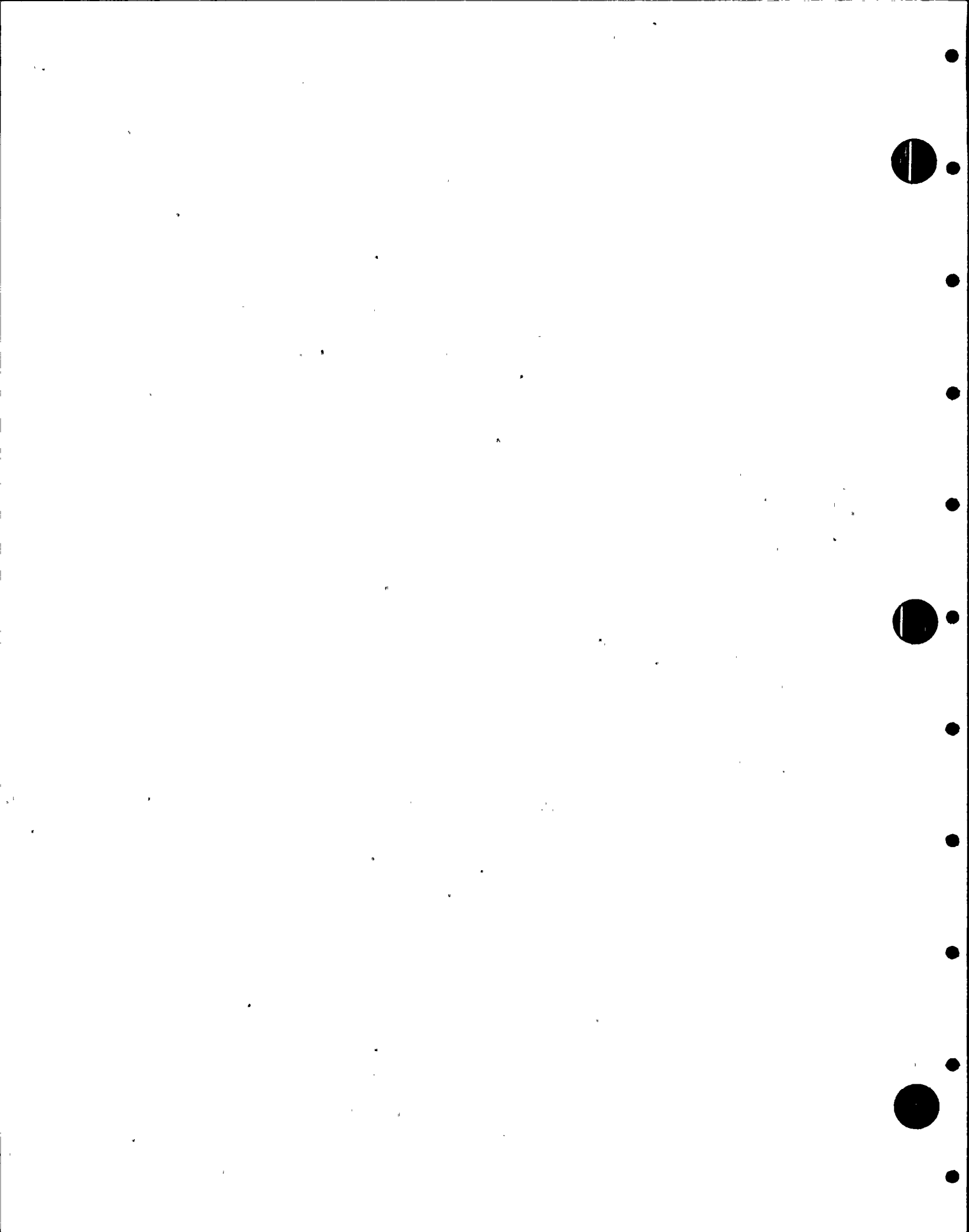
WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT LPCS(1)-4
DESCRIPTION: LOW PRES CORE SPRAY

PAGE 001
DATE 10/22/90

EXAM.
DATA

EXAMINATION RESULTS

| <u>IDENT. NO.</u> | <u>EXAM. MTH.</u> | <u>EXAM. SHEET NO.</u> | <u>NO INDIC.</u> | <u>INSIGNIF INDIC.</u> | <u>SIGNIFICANT GEOMETRY OTHER</u> | <u>REMARKS</u> |
|-------------------|-------------------|------------------------|------------------|------------------------|-----------------------------------|---|
| LPCS-V-6-BDY | VT-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. |

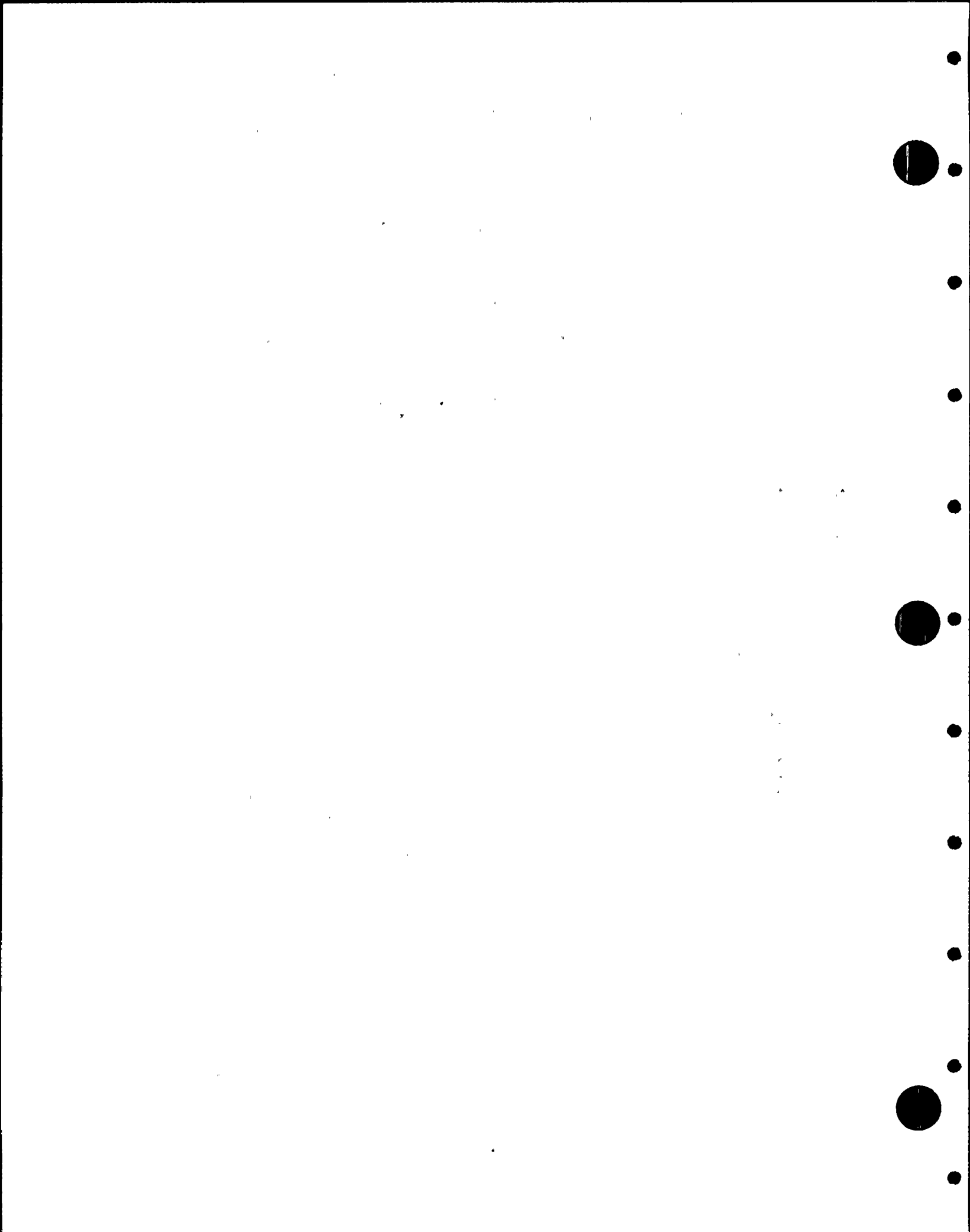


WNP-02
 INTERVAL: 01
 PERIOD: 2
 OUTAGE: R5
 DRAWING NO. LPCS-202

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

PAGE 001
 DATE 10/22/90

| IDENT. NO. | EXAM. SHEET | EXAM. DATA SHEET NO. | EXAMINATION RESULTS | | | | REMARKS |
|------------------------|-------------|----------------------|---------------------|-----------------|----------------------|-------|---|
| | | | INDIC. | INSIGNIF INDIC. | SIGNIFICANT GEOMETRY | OTHER | |
| 16LPCS(1)-2/6LPCS(4)-2 | 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. 1LPU--20 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 | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |
| LPCS-39 | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |
| 16LPCS(1)-8 | VOL | 1LPU-021 | 45 | | | | NO RECORDABLE INDICATIONS |
| | SUR | 1LPM-013 | | ACC | | | NO RECORDABLE INDICATIONS |
| LPCS-11 | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |
| LPCS-12 | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |
| LPCS-14 | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |
| LPCS-17 | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |



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

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

PAGE 002
 DATE 10/22/90

| IDENT. NO. | EXAM. SHEET MTH. NO. | EXAM. DATA SHEET NO. | EXAMINATION RESULTS | | | | REMARKS |
|--------------|-------------------------|----------------------------|---------------------|-----------------|----------------------|-------|--|
| | | | NO INDIC. | INSIGNIF INDIC. | SIGNIFICANT GEOMETRY | OTHER | |
| 12LPCS(3)-5 | VOL | 1LPU-022 | 45 | | | | LIMITED SCANS ON VALVE SIDE DUE TO CONFIGURATION. |
| 12LPCS(3)-6 | SUR | 1LPM-012 | ACC | | | | NO RECORDABLE INDICATIONS |
| | VOL | 1LPU-022 | 45 | | | | LIMITED SCANS ON VALVES SIDE DUE TO CONFIGURATION. |
| 16LPCS(1)-23 | SUR | 1LPM-012 | ACC | | | | NO RECORDABLE INDICATIONS |
| | VOL | 1LPU-023 | | 45 | | ACC | ONE IND. AT 12XDAC. 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 | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |
| LPCS-41 | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |

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

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

PAGE 003
 DATE 10/22/90

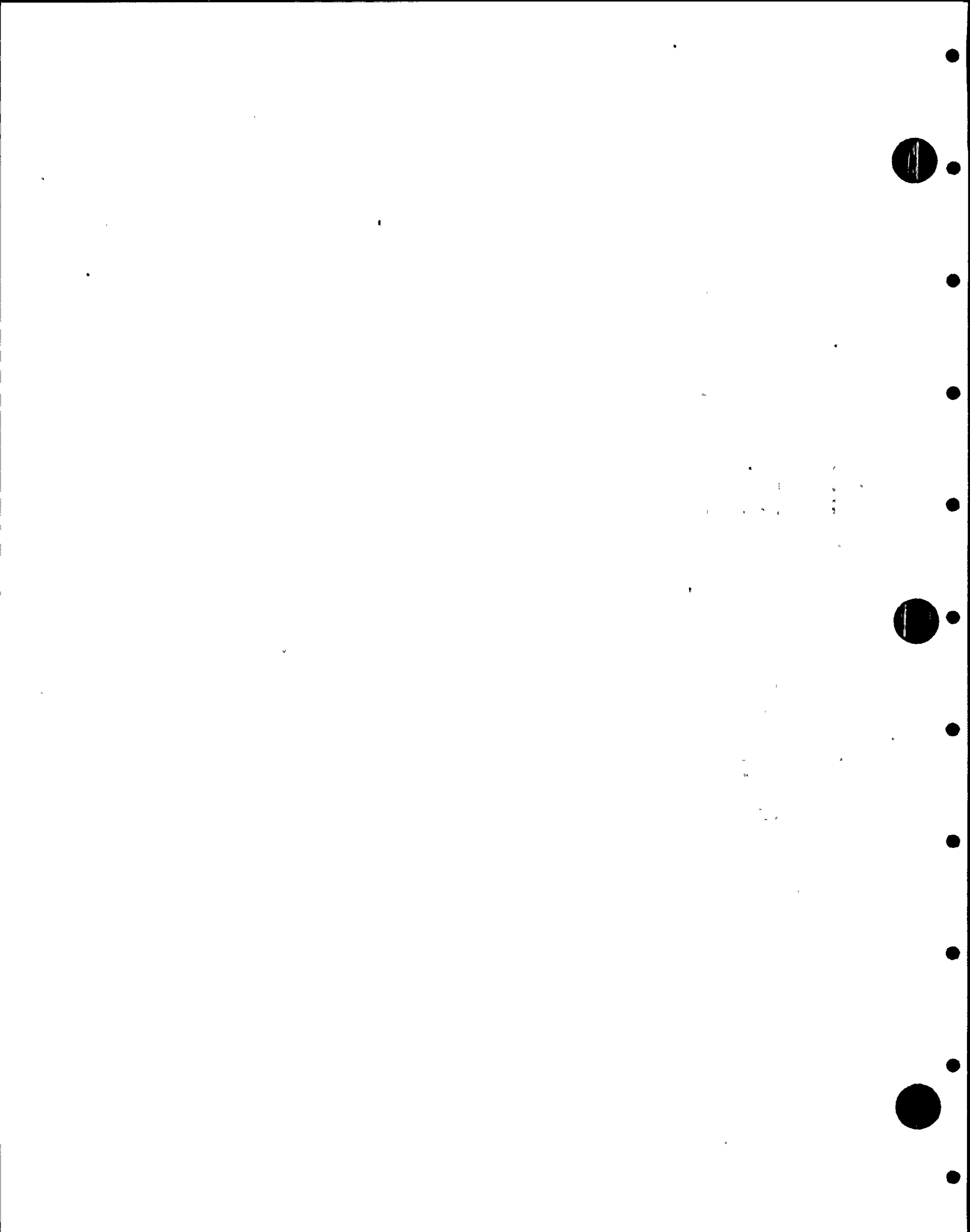
| IDENT. NO. | EXAM. MTH. | EXAM. DATA SHEET NO. | EXAMINATION RESULTS | | | REMARKS |
|--------------|------------|----------------------|---------------------|-----------------|----------------------------|---|
| | | | NO INDIC. | INSIGNIF INDIC. | SIGNIFICANT GEOMETRY OTHER | |
| 16LPCS(1)-27 | VOL | 1LPU-025 | | 45 | ACC | ID GEOMETRY 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 | VT3H | 1HV-0193 | ACC | | | NO RECORDABLE INDICATIONS |
| LPCS-22 | VT3H | 1HV-0193 | ACC | | | NO RECORDABLE INDICATIONS |
| LPCS-23 | VT3H | 1HV-0193 | ACC | | | NO RECORDABLE INDICATIONS |
| LPCS-24 | VT3H | 1HV-0193 | ACC | | | NO RECORDABLE INDICATIONS |
| LPCS-25 | VT3H | 1HV-0193 | ACC | | | NO RECORDABLE INDICATIONS |
| LPCS-903N | VT3H | 1HV-0193 | ACC | | | NO RECORDABLE INDICATIONS |

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

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

PAGE 001
DATE 10/22/90

| <u>IDENT..NO.</u> | <u>EXAM.</u> <u>MTH.</u> | <u>EXAM.</u> <u>DATA</u> <u>SHEET</u> <u>NO.</u> | <u>EXAMINATION RESULTS</u> | | | | <u>REMARKS</u> |
|-------------------|-----------------------------|---|----------------------------|----------------------------------|---|--|----------------------------|
| | | | <u>NO</u> <u>INDIC.</u> | <u>INSIGNIF</u> <u>INDIC.</u> | <u>SIGNIFICANT</u> <u>GEOMETRY OTHER</u> | | |
| RHR-PB-101(L) | VT-2 | 1VT2-90 | ACC | | | | NO RECORDABLE INDICATIONS. |



WNP-02
 INTERVAL: 01
 PERIOD: 2
 OUTAGE: R5
 DRAWING NO. RHR-102

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

PAGE 001
 DATE 10/22/90

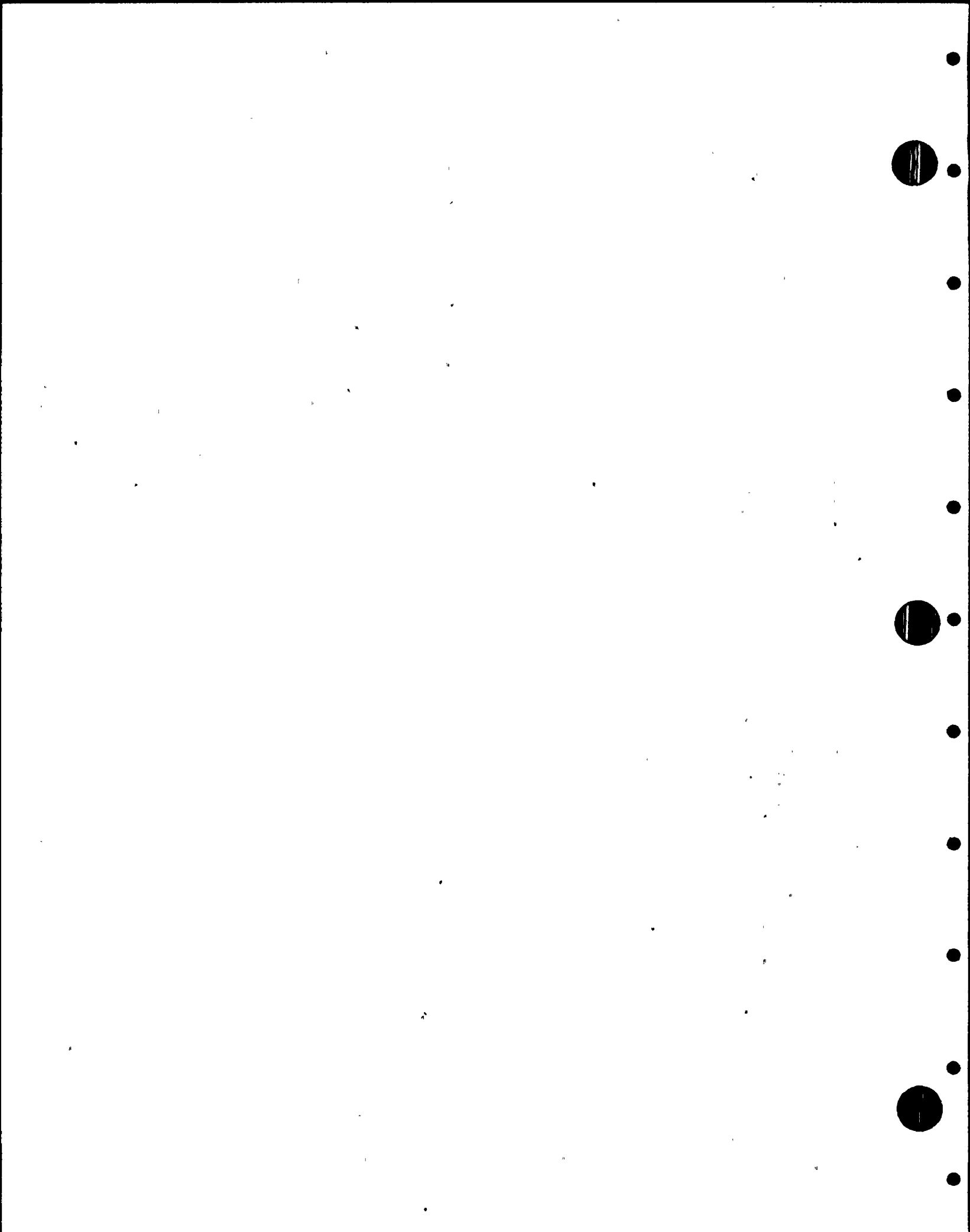
| <u>IDENT..NO.</u> | <u>EXAM.</u> <u>MTH.</u> | <u>EXAM.</u> <u>SHEET</u> <u>NO.</u> | <u>EXAMINATION RESULTS</u> | | | | <u>REMARKS</u> |
|-------------------|-----------------------------|--|----------------------------|-----------------|--------------------|--------------|----------------------------|
| | | | <u>NO</u> | <u>INSIGNIF</u> | <u>SIGNIFICANT</u> | | |
| | | | <u>INDIC.</u> | <u>INDIC.</u> | <u>GEOMETRY</u> | <u>OTHER</u> | |
| RHR-PB-102(L) | VT-2 | 1VT2-90 | ACC | | | | NO RECORDABLE INDICATIONS. |

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R5
DRAWING NO. RHR-103

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT RHR(1)-4
DESCRIPTION: RHR SHUTDN COOL SUCT

PAGE 001
DATE 10/22/90

| <u>IDENT..NO.</u> | <u>EXAM.</u> <u>MTH.</u> | <u>EXAM.</u> <u>SHEET</u> <u>NO.</u> | <u>EXAMINATION RESULTS</u> | | | | <u>REMARKS</u> |
|-------------------|-----------------------------|--|----------------------------|-----------------|--------------------|--------------|----------------------------|
| | | | <u>NO</u> | <u>INSIGNIF</u> | <u>SIGNIFICANT</u> | | |
| | | | <u>INDIC.</u> | <u>INDIC.</u> | <u>GEOMETRY</u> | <u>OTHER</u> | |
| RHR-PB-103(L) | VT-2 | 1VT2-90 | ACC | | | | NO RECORDABLE INDICATIONS. |



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

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

PAGE 001
DATE 10/22/90

| <u>IDENT. NO.</u> | <u>EXAM. MTH.</u> | <u>EXAM. SHEET NO.</u> | <u>EXAMINATION RESULTS</u> | | | | <u>REMARKS</u> |
|-------------------|-------------------|------------------------|----------------------------|-----------------|--------------------|--------------|----------------------------|
| | | | <u>NO</u> | <u>INSIGNIF</u> | <u>SIGNIFICANT</u> | | |
| | | | <u>INDIC.</u> | <u>INDIC.</u> | <u>GEOMETRY</u> | <u>OTHER</u> | |
| RHR-PB-104(L) | VT-2 | 1VT2-90 | ACC | | | | NO RECORDABLE INDICATIONS. |



WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R5
DRAWING NO. RHR-105

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT RHR(1)-4S
DESCRIPTION: SHU1DN COOL RET LP-A

PAGE 001
DATE 10/22/90

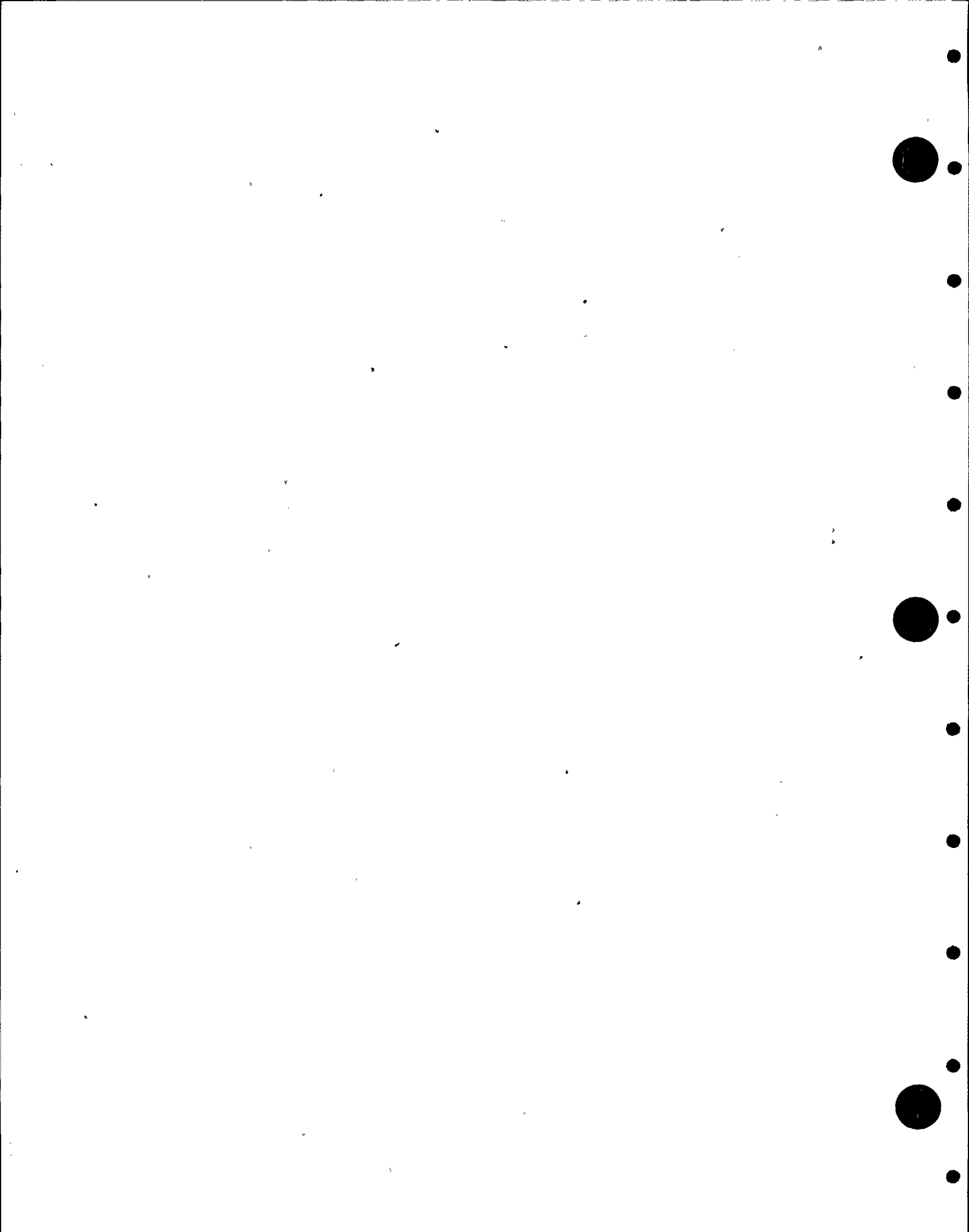
| <u>IDENT..NO.</u> | <u>EXAM.</u> <u>MIH.</u> | <u>EXAM.</u> <u>NO.</u> | <u>EXAMINATION RESULTS</u> | | | | <u>REMARKS</u> |
|-------------------|-----------------------------|----------------------------|----------------------------|-----------------|--------------------|--------------|----------------------------|
| | | | <u>NO</u> | <u>INSIGNIF</u> | <u>SIGNIFICANT</u> | | |
| | | | <u>INDIC.</u> | <u>INDIC.</u> | <u>GEOMETRY</u> | <u>OTHER</u> | |
| RHR-PB-105(L) | VT-2 | 1VT2-90 | ACC | | | | NO RECORDABLE INDICATIONS. |

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R5
DRAWING NO. RHR-106

WASHINGTON PUBLIC POWER 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

| <u>IDENT..NO.</u> | <u>EXAM.</u> <u>MTH.</u> | <u>EXAM.</u> <u>DATA</u> <u>SHEET</u> <u>NO.</u> | <u>EXAMINATION RESULTS</u> | | | | <u>REMARKS</u> |
|-------------------|-----------------------------|---|----------------------------|-----------------|--------------------|--------------|----------------------------|
| | | | <u>NO</u> | <u>INSIGNIF</u> | <u>SIGNIFICANT</u> | | |
| | | | <u>INDIC.</u> | <u>INDIC.</u> | <u>GEOMETRY</u> | <u>OTHER</u> | |
| RHR-P8-106(L) | VT-2 | 1VT2-90 | ACC | | | | NO RECORDABLE INDICATIONS. |



WNP-02
 INTERVAL: 01
 PERIOD: 2
 OUTAGE: R5
 DRAWING NO. RHR-201

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

PAGE 001
 DATE 10/22/90

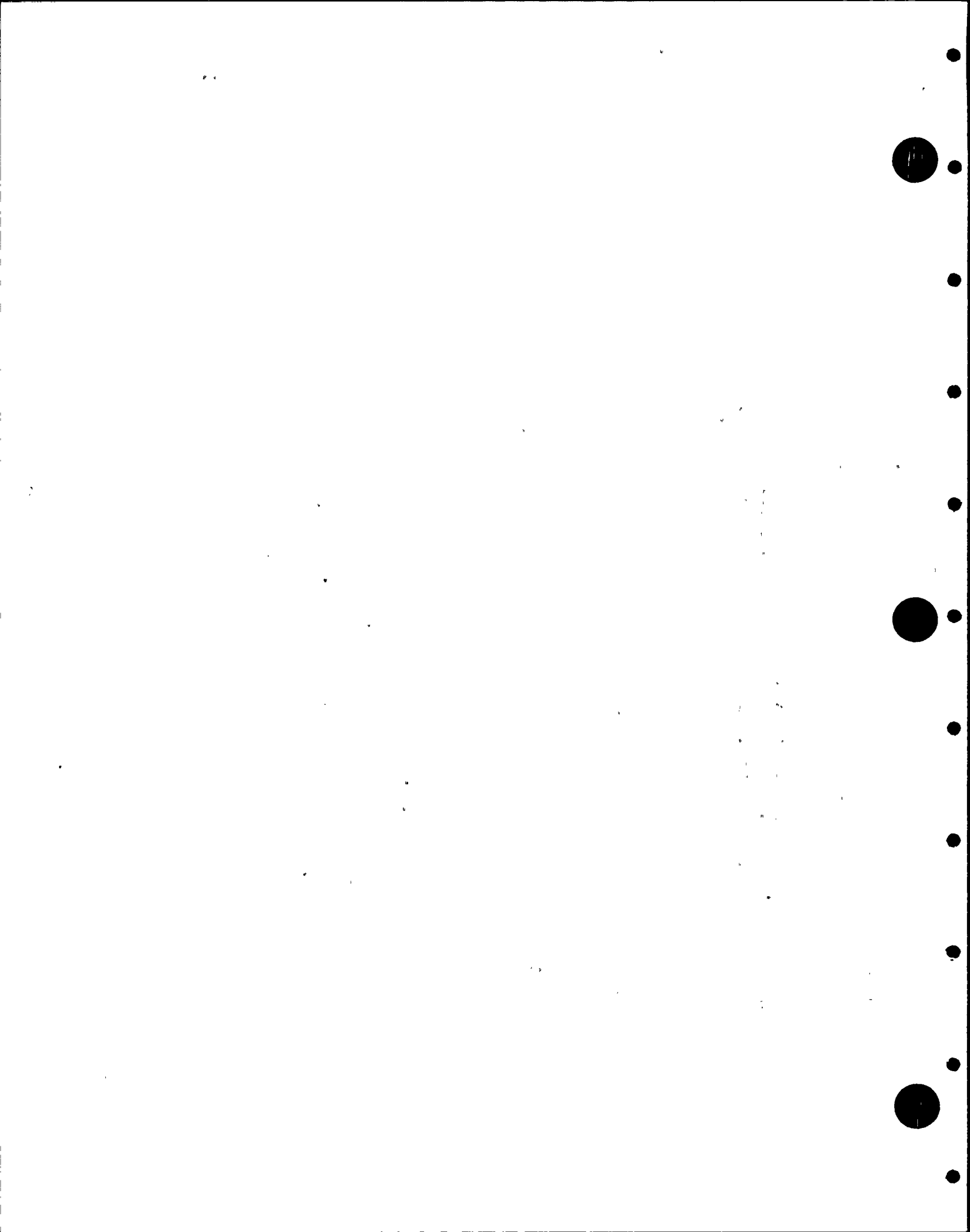
| IDENT. NO. | EXAM. MTH. | EXAM. DATA SHEET NO. | EXAMINATION RESULTS | | | | REMARKS |
|---------------|------------|----------------------|---------------------|-----------------|----------------------|-------|---|
| | | | NO INDIC. | INSIGNIF INDIC. | SIGNIFICANT GEOMETRY | OTHER | |
| RHR-601 | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |
| RHR-600 | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |
| RHR-598 | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |
| 20RHR(1)A-2 | VOL | 1RHU-081 | 45 | | | | NO DNST AXIAL SCAN DUE TO NOZZLE CONFIGURATION. |
| 18RHR(11)A-1 | SUR | 1RHM-038 | ACC | | | | NO RECORDABLE INDICATIONS |
| | VOL | 1RHU-077 | 45 | | | | NO RECORDABLE INDICATIONS |
| 18RHR(11)A-14 | SUR | 1RHM-035 | ACC | | | | NO RECORDABLE INDICATIONS |
| | VOL | 1RHU-078 | 45 | | | | NO RECORDABLE INDICATIONS |
| 20RHR(1)A-6 | SUR | 1RHM-035 | ACC | | | | NO RECORDABLE INDICATIONS |
| | VOL | 1RHU-076 | 45 | | | | NO RECORDABLE INDICATIONS |
| 18RHR(1)A-47 | SUR | 1RHM-036 | ACC | | | | NO RECORDABLE INDICATIONS |
| | VOL | 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. ETR 1-010. |

WNP-02
 INTERVAL: 01
 PERIOD: 2
 OUTAGE: R5
 DRAWING NO. RHR-201

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

PAGE 002
 DATE 10/22/90

| <u>IDENT..NO.</u> | <u>EXAM. MTH.</u> | <u>EXAM. DATA SHEET NO.</u> | <u>EXAMINATION RESULTS</u> | | | | <u>REMARKS</u> |
|-------------------|-----------------------|---|----------------------------|-----------------|--------------------|--------------|---|
| | | | <u>NO</u> | <u>INSIGNIF</u> | <u>SIGNIFICANT</u> | <u>OTHER</u> | |
| | | <u>NO.</u> | <u>INDIC.</u> | <u>INDIC.</u> | <u>GEOMETRY</u> | <u>OTHER</u> | |
| | SUR | 1RHM-034 | | | ACC | | UNACCEPTABLE LINEAR MT INDICATION AREA ACCEPTED BY VOL. UT EXAM OF MT INDICATION AREA (1RHU-080), AS PERMITTED BY IWB-3514.2(b). REF. ERTR 1-010. |



WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R5
DRAWING NO. RHR-201

WASHINGTON PUBLIC POWER 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

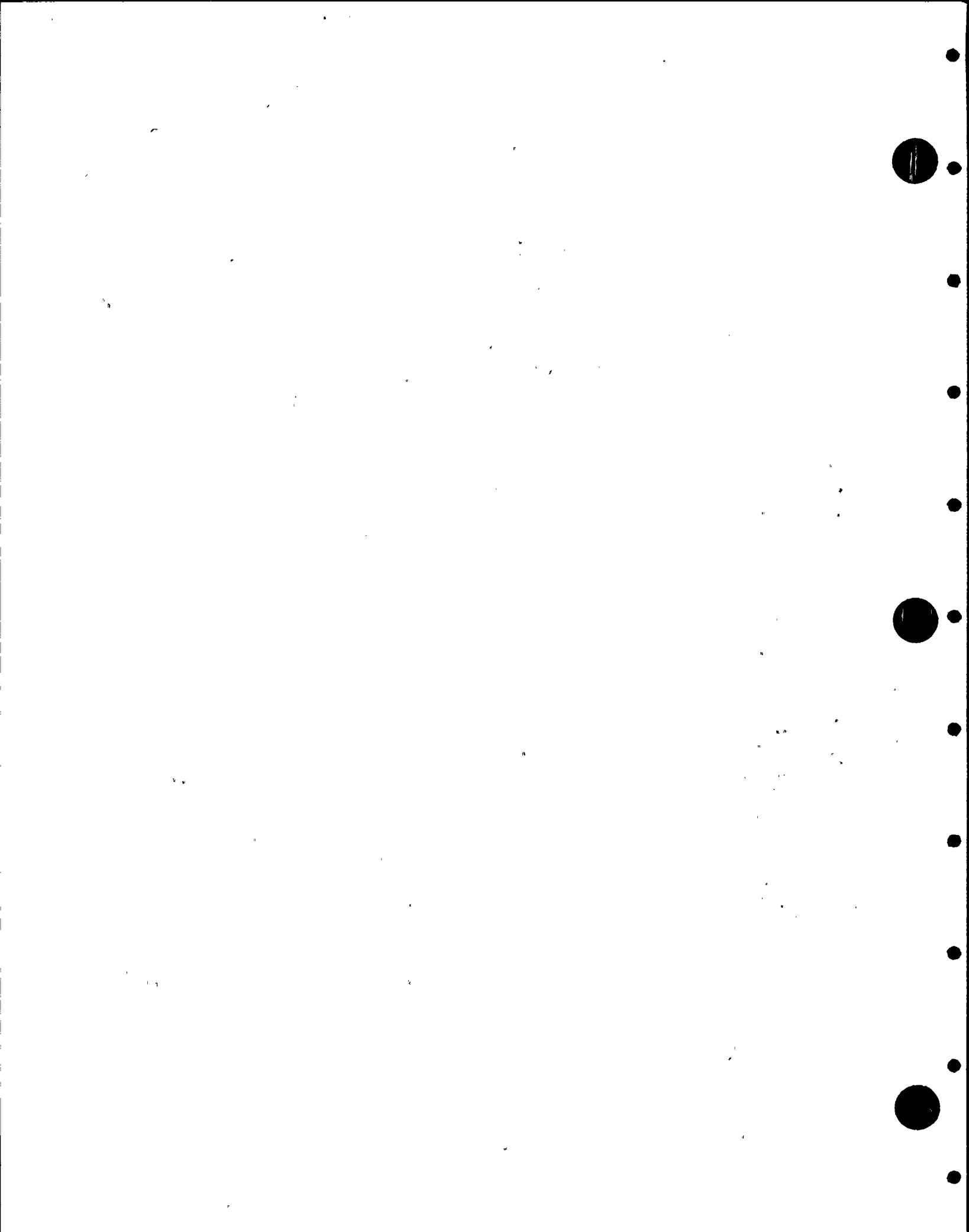
| <u>IDENT. NO.</u> | <u>EXAM. MTH.</u> | <u>EXAM. DATA SHEET NO.</u> | <u>EXAMINATION RESULTS</u> | | | | <u>REMARKS</u> |
|-------------------|-------------------|-----------------------------|----------------------------|-----------------|--------------------|--------------|---|
| | | | <u>INDIC.</u> | <u>INSIGNIF</u> | <u>SIGNIFICANT</u> | <u>OTHER</u> | |
| 18RHR(1)A-54 | VOL | 1RHU-079 | 45 | | | | NO DNST AXIAL SCAN DUE TO CONFIG. OF TEE. |

WNP-02
 INTERVAL: 01
 PERIOD: 2
 OUTAGE: R5
 DRAWING NO. RHR-201

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

PAGE 004
 DATE 10/22/90

| IDENT. NO. | EXAM. MTH. | EXAM. DATA SHEET NO. | EXAMINATION RESULTS | | | | REMARKS |
|--------------|------------|----------------------|---------------------|-----------------|----------------------|-------|--|
| | | | NO INDIC. | INSIGNIF INDIC. | SIGNIFICANT GEOMETRY | OTHER | |
| 18RHR(1)A-54 | SUR | 1RHM-037 | ACC | | | | NO RECORDABLE INDICATIONS |
| RHR-237 | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |
| RHR-234 | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |
| RHR-1004N | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |
| RHR-235 | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |
| RHR-350 | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |
| RHR-965N | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |
| RHR-1019N | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |
| RHR-240 | VT3H | 1HV-0193 | | ACC | | | HEAVY RUST LAYER ON 90% OF WELDS. |
| 14RHR(1)A-13 | VOL | 1RHU-082 | | 46 | | | ID GEOMETRY NOTED AT 55-85% DAC. |
| RHR-964N | SUR | 1RHM-039 | ACC | | | | NO RECORDABLE INDICATIONS |
| | VT3H | 1HV-0193 | | ACC | | | ONE NUT ON BASE PLATE BOLTING HAS TWO THREADS SHOWING. |

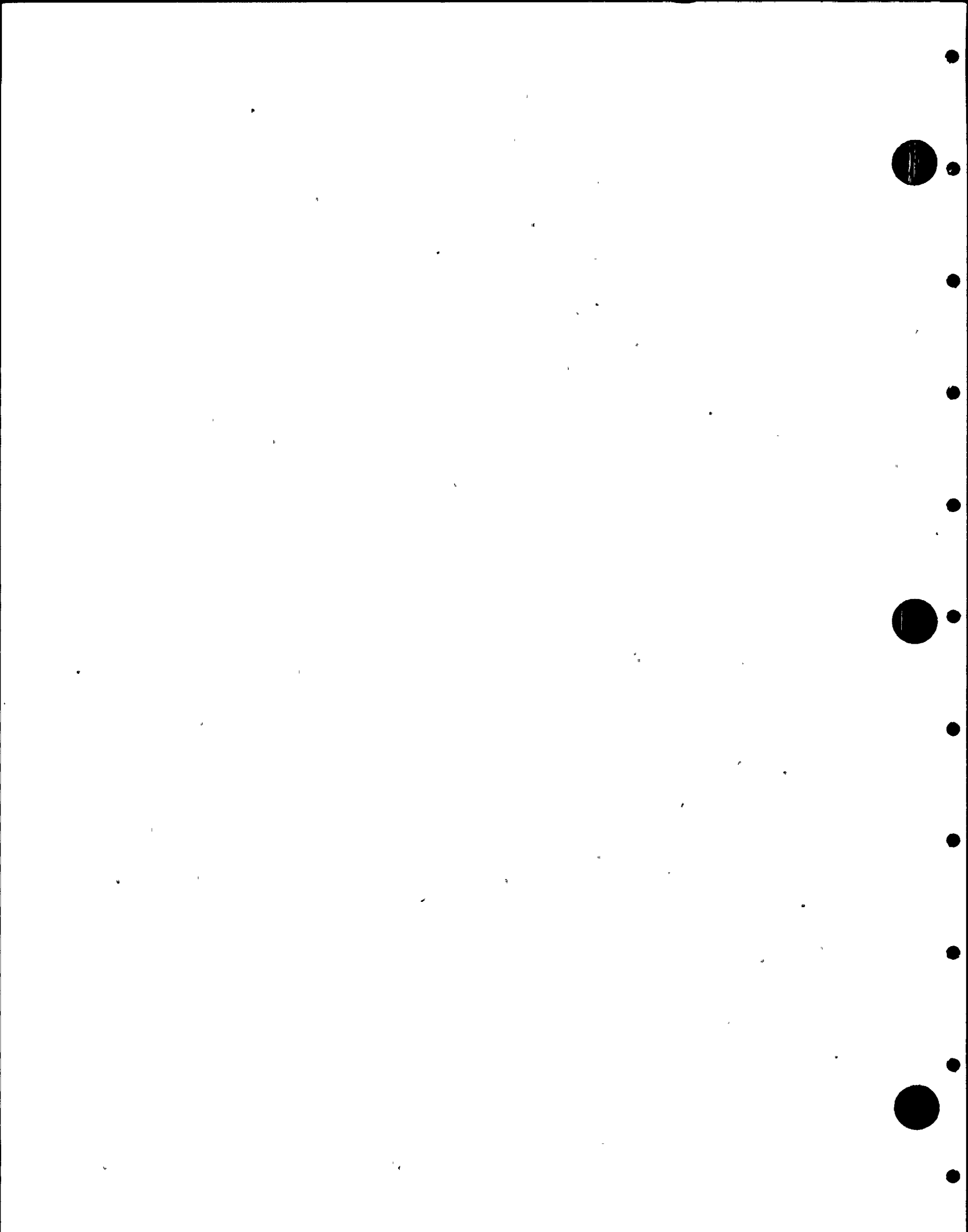


WNP-02
 INTERVAL: 01
 PERIOD: 01
 OUTAGE: R5
 DRAWING NO. MS-101

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

PAGE 001
 DATE 10/22/90

| <u>IDENT. NO.</u> | <u>EXAM. MTH.</u> | <u>EXAM. DATA SHEET NO.</u> | <u>EXAMINATION RESULTS</u> | | | | <u>REMARKS</u> | |
|-------------------|-------------------|-----------------------------|----------------------------|------------------------|--------------------|--------------|----------------|---|
| | | | <u>NO INDIC.</u> | <u>INSIGNIF INDIC.</u> | <u>SIGNIFICANT</u> | | | |
| | | | | | <u>GEOMETRY</u> | <u>OTHER</u> | | |
| MS-SA-7 | VT3H | 1HV-0208 | ACC | | | | | SNUBBER REPLACED WITH STRUT AT R5. SECT. XI PLAN 2-0552. PSI OF NEW STRUT. |
| MS-SA-4 | VT3H | 1HV-0207 | ACC | | | | | SNUBBER REPLACED WITH STRUT AT R5. SECT. XI PLAN 2-0552). PSI OF NEW STRUT. |
| MS-SA-1 | VT3H | 1HV-0205 | ACC | | | | | SNUBBER REPLACED WITH STRUT AT R5. SECT. XI PLAN 2-0552. PSI FOR NEW STRUT. |
| MS-SA-2 | VT3H | 1HV-0206 | ACC | | | | | SNUBBER REPLACED WITH STRUT AT R5. SECT. XI PLAN 2-0552. PSI OF NEW STRUT. |
| MS-PB-101(L) | VT-2 | 1VT2-90 | ACC | | | | | NO RECORDABLE INDICATIONS |

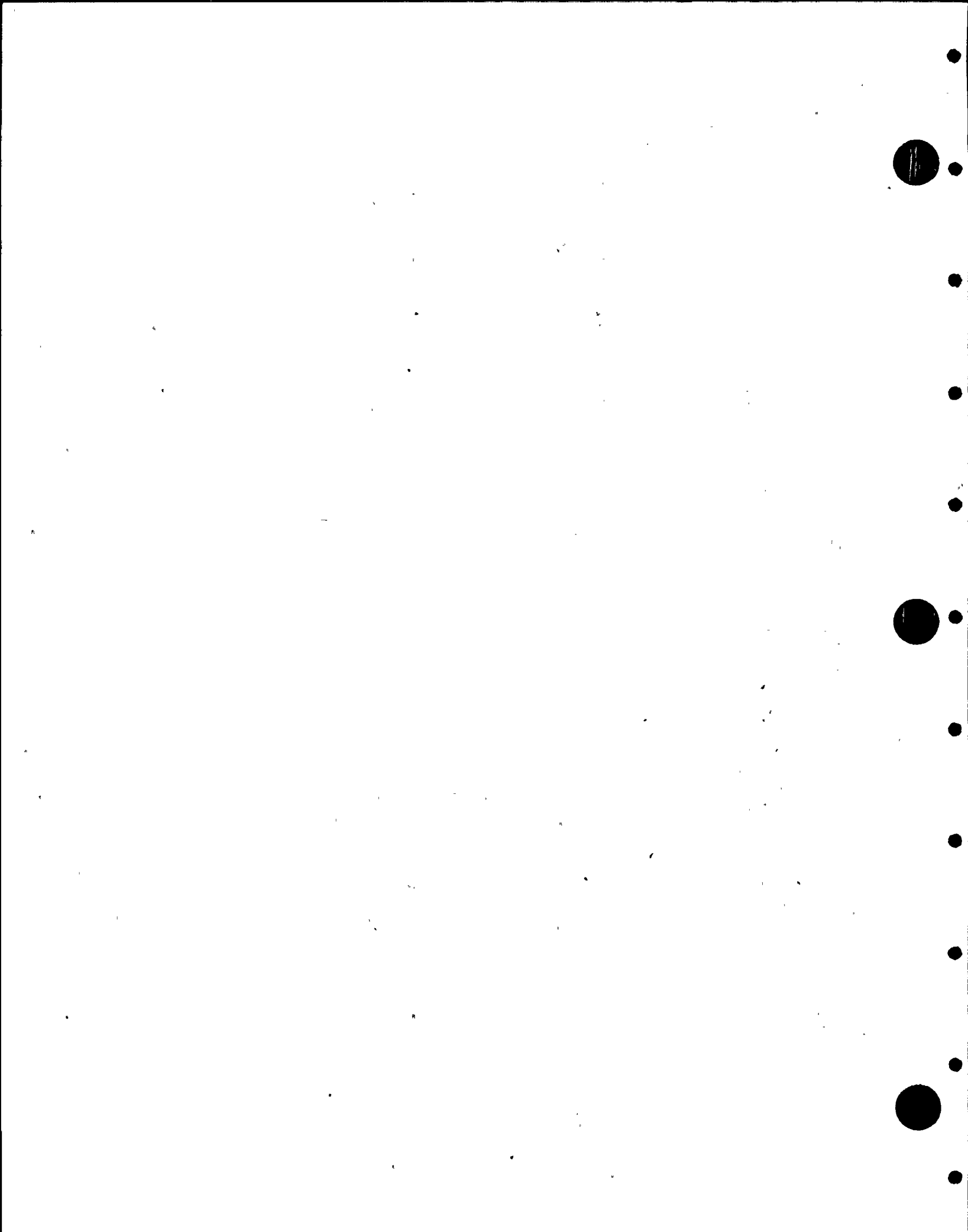


WNP-02
 INTERVAL: 01
 PERIOD: 1
 OUTAGE: R5
 DRAWING NO. MS-102

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

PAGE 001
 DATE 10/22/90

| <u>IDENT..NO.</u> | <u>EXAM. MTH.</u> | <u>EXAM. SHEET NO.</u> | <u>EXAMINATION RESULTS</u> | | | <u>REMARKS</u> |
|-------------------|-------------------|------------------------|----------------------------|------------------------|-----------------------------------|---|
| | | | <u>NO INDIC.</u> | <u>INSIGNIF INDIC.</u> | <u>SIGNIFICANT GEOMETRY OTHER</u> | |
| MS-V-22B-BDY | VT-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. |
| MS-V-28B-BDY | 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) | VT-2 | 1VT2-90 | ACC | | | NO RECORDABLE INDICATIONS. |



WNP-02
 INTERVAL: 01
 PERIOD: 02
 OUTAGE: R5
 DRAWING NO. MS-103

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

PAGE 001
 DATE 10/22/90

| <u>IDENT. NO.</u> | <u>EXAM. MTH.</u> | <u>EXAM. DATA SHEET NO.</u> | <u>EXAMINATION RESULTS</u> | | | | <u>REMARKS</u> |
|-------------------|-------------------|-----------------------------|----------------------------|------------------------|--------------------|--------------|---------------------------|
| | | | <u>NO INDIC.</u> | <u>INSIGNIF INDIC.</u> | <u>SIGNIFICANT</u> | | |
| | | | | | <u>GEOMETRY</u> | <u>OTHER</u> | |
| 26MS(1)C-3 | VOL | 1MSU-054 | 45 | | | | NO RECORDABLE INDICATIONS |
| 26MS(1)C-3LDI | SUR | 1MSM-023 | ACC | | | | NO RECORDABLE INDICATIONS |
| | VOL | 1MSU-054 | 45 | | | | NO RECORDABLE INDICATIONS |
| 26MS(1)C-3LDO | SUR | 1MSM-023 | ACC | | | | NO RECORDABLE INDICATIONS |
| | VOL | 1MSU-054 | 45 | | | | NO RECORDABLE INDICATIONS |
| MS-HC-1(W) | SUR | 1MSM-023 | ACC | | | | NO RECORDABLE INDICATIONS |
| MS-HC-1 | SUR | 1MSM-025 | ACC | | | | NO RECORDABLE INDICATIONS |
| MS-SC-6 | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |
| MS-SC-7 | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |
| MS-SC-5 | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |
| MS-SC-8 | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |
| MS-HC-2 | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |

WNP-02
 INTERVAL: 01
 PERIOD: 1
 OUTAGE: R5
 DRAWING NO. MS-103

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

PAGE 002
 DATE 10/22/90

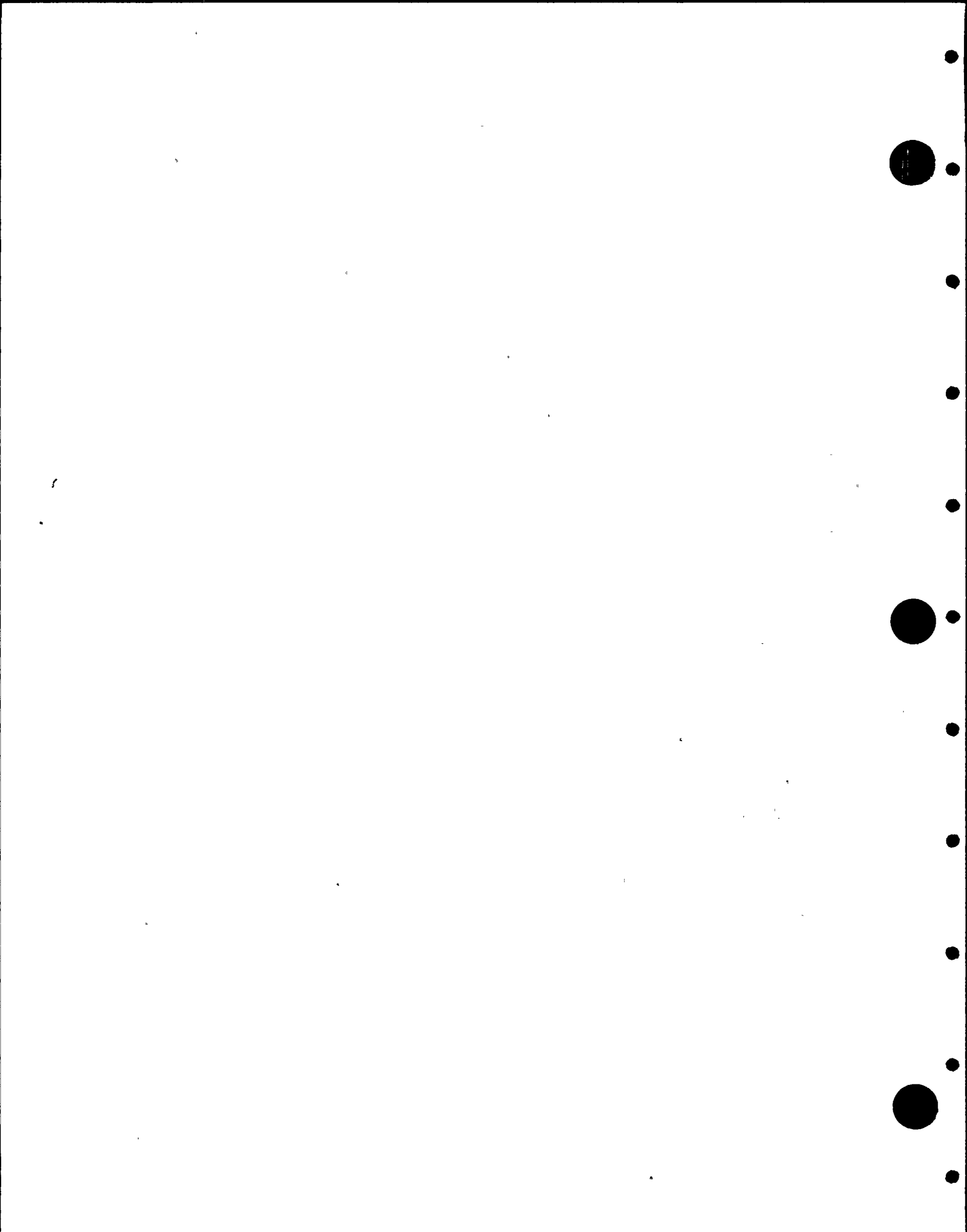
| IDENT. NO. | EXAM. MTH. | EXAM. DATA SHEET NO. | EXAMINATION RESULTS | | | | REMARKS |
|--------------|------------|----------------------|---------------------|-----------------|----------------------|-------|---|
| | | | INDIC. | INSIGNIF INDIC. | SIGNIFICANT GEOMETRY | OTHER | |
| MS-V-22C-BDY | VT-3 | 1MSV-096 | ACC | | | | PSI ON INTERNAL MACHINED SURFACES AND REPAIR GRINDOUTS. LIMITED ISI EXAM DUE TO ACCESS. SECT. XI REPAIR PLAN 2-0555. |
| MS-V-28C-BDY | VT-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) | VT-2 | 1VT2-90 | ACC | | | | NO RECORDABLE INDICATIONS. |

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

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

PAGE 001
 DATE 10/22/90

| IDENT. NO. | EXAM. MTH. | EXAM. DATA SHEET NO. | EXAMINATION RESULTS | | | | REMARKS |
|---------------|------------|----------------------|---------------------|-----------------|----------------------|-------|--|
| | | | NO INDIC. | INSIGNIF INDIC. | SIGNIFICANT GEOMETRY | OTHER | |
| 26MS(1)D-3 | VOL | 1MSU-053 | 45 | | | | NO RECORDABLE INDICATIONS |
| 26MS(1)D-3LDI | SUR | 1MSM-024 | ACC | | | | NO RECORDABLE INDICATIONS |
| | VOL | 1MSU-053 | 45 | | | | NO RECORDABLE INDICATIONS |
| 26MS(1)D-3LDO | SUR | 1MSM-024 | ACC | | | | NO RECORDABLE INDICATIONS |
| | VOL | 1MSU-053 | 45 | | | | NO RECORDABLE INDICATIONS |
| 26MS(1)D-4LUI | SUR | 1MSM-024 | ACC | | | | NO RECORDABLE INDICATIONS |
| | VOL | 1MSU-053 | 45 | | | | NO RECORDABLE INDICATIONS |
| 26MS(1)D-4LU0 | SUR | 1MSM-024 | ACC | | | | NO RECORDABLE INDICATIONS |
| | VOL | 1MSU-053 | 45 | | | | NO RECORDABLE INDICATIONS |
| 26MS(1)D-4 | SUR | 1MSM-024 | ACC | | | | NO RECORDABLE INDICATIONS |
| | VOL | 1MSU-053 | 45 | | | | NO RECORDABLE INDICATIONS |
| 26MS(1)D-5 | SUR | 1MSM-024 | ACC | | | | NO RECORDABLE INDICATIONS |
| | VOL | 1MSU-055 | 45 | | | | FULL VOL. UT EXAM PERFORMED FROM DNST SIDE OF WELD TO ACHIEVE 100% OF WELD AND BASE METAL TO COMPENSATE FOR UPST SIDE BEING BLOCKED BY PWS 34-1. |



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

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

PAGE 002
 DATE 10/22/90

| <u>IDENT..NO.</u> | <u>EXAM. MTH.</u> | <u>EXAM. DATA SHEET NO.</u> | <u>EXAMINATION RESULTS</u> | | | | <u>REMARKS</u> |
|-------------------|-----------------------|---|----------------------------|----------------------------|---------------------------------------|-----|---|
| | | | <u>NO INDIC.</u> | <u>INSIGNIF INDIC.</u> | <u>SIGNIFICANT GEOMETRY OTHER</u> | | |
| | 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) | SUR | 1MSM-026 | ACC | | | | NO RECORDABLE INDICATIONS |
| MS-SD-6 | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |
| MS-SD-7 | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |
| MS-SD-5 | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |
| MS-SD-9 | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |
| MS-PB-104(L) | VT-2 | 1VT2-90 | ACC | | | | NO RECORDABLE INDICATIONS. |

WNP-02
 INTERVAL: 01
 PERIOD: 2
 OUTAGE: R5
 DRAWING NO. MS-105

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
 NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
 SYSTEM OR COMPONENT MS(9)-4
 DESCRIPTION: MS VALVE DRAINS

PAGE 001
 DATE 10/22/90

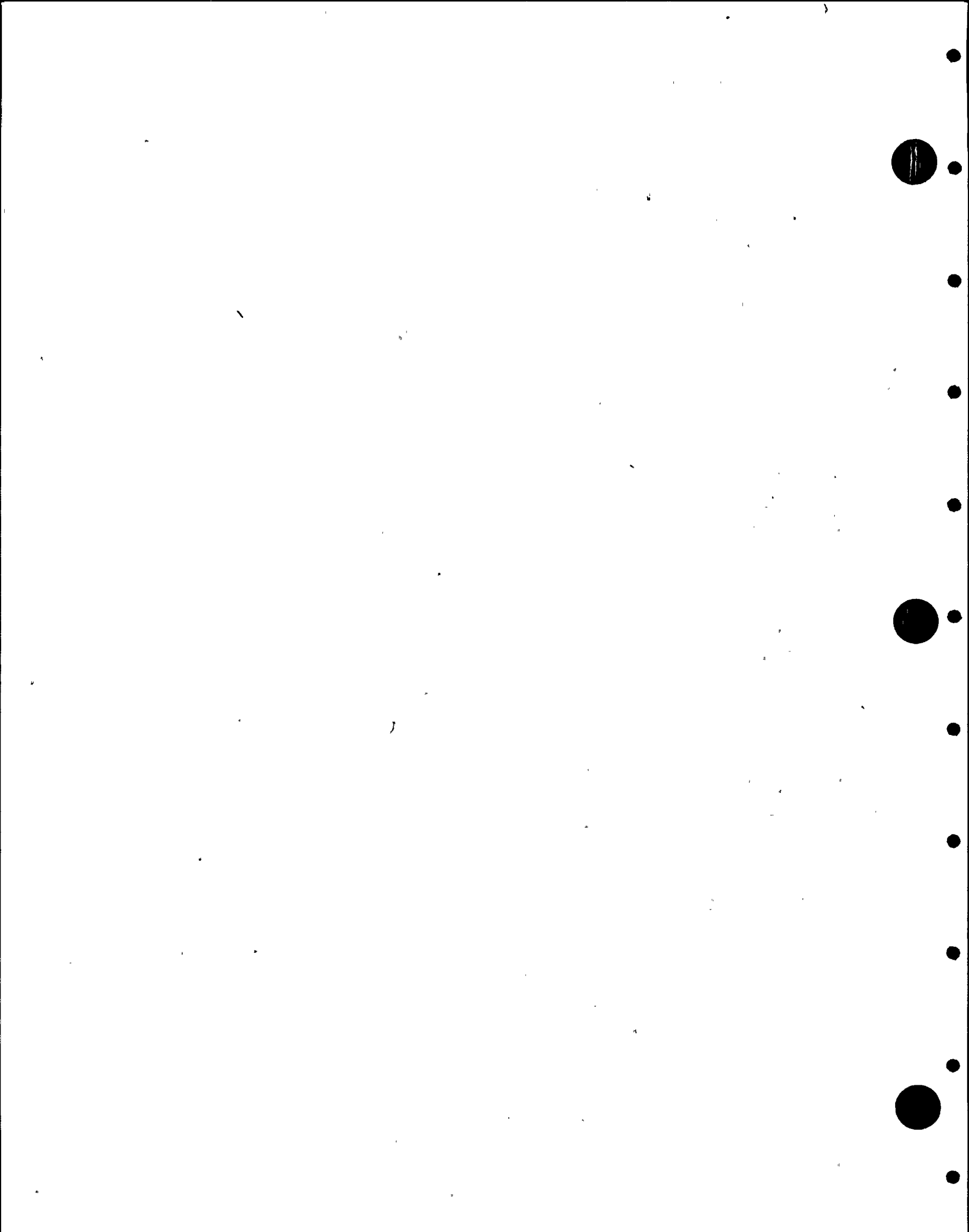
| <u>IDENT. NO.</u> | <u>EXAM. MTH.</u> | <u>EXAM. DATA SHEET NO.</u> | <u>EXAMINATION RESULTS</u> | | | | <u>REMARKS</u> |
|-------------------|-------------------|-----------------------------|----------------------------|------------------------|--------------------|--------------|----------------------------|
| | | | <u>NO INDIC.</u> | <u>INSIGNIF INDIC.</u> | <u>SIGNIFICANT</u> | | |
| | | | | | <u>GEOMETRY</u> | <u>OTHER</u> | |
| MS-260 | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |
| MS-1C-1PS | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |
| MS-261 | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |
| MS-PB-105(L) | VT-2 | 1VT2-90 | ACC | | | | NO RECORDABLE INDICATIONS. |

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R5
DRAWING NO. MS-106

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

PAGE 001
DATE 10/22/90

| <u>IDENT..NO.</u> MS-PB-106(L) | <u>EXAM.</u> <u>MTH.</u> | <u>EXAM.</u> <u>DATA</u> <u>SHEET</u> <u>NO.</u> | <u>EXAMINATION RESULTS</u> | | | | <u>REMARKS</u> |
|-----------------------------------|-----------------------------|---|----------------------------|-----------------|--------------------|--------------|----------------------------|
| | | | <u>NO</u> | <u>INSIGNIF</u> | <u>SIGNIFICANT</u> | <u>OTHER</u> | |
| | | <u>NO.</u> | <u>INDIC.</u> | <u>INDIC.</u> | <u>GEOMETRY</u> | <u>OTHER</u> | |
| | VT-2 | 1VT2-90 | ACC | | | | NO RECORDABLE INDICATIONS. |



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

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

PAGE 001
 DATE 10/22/90

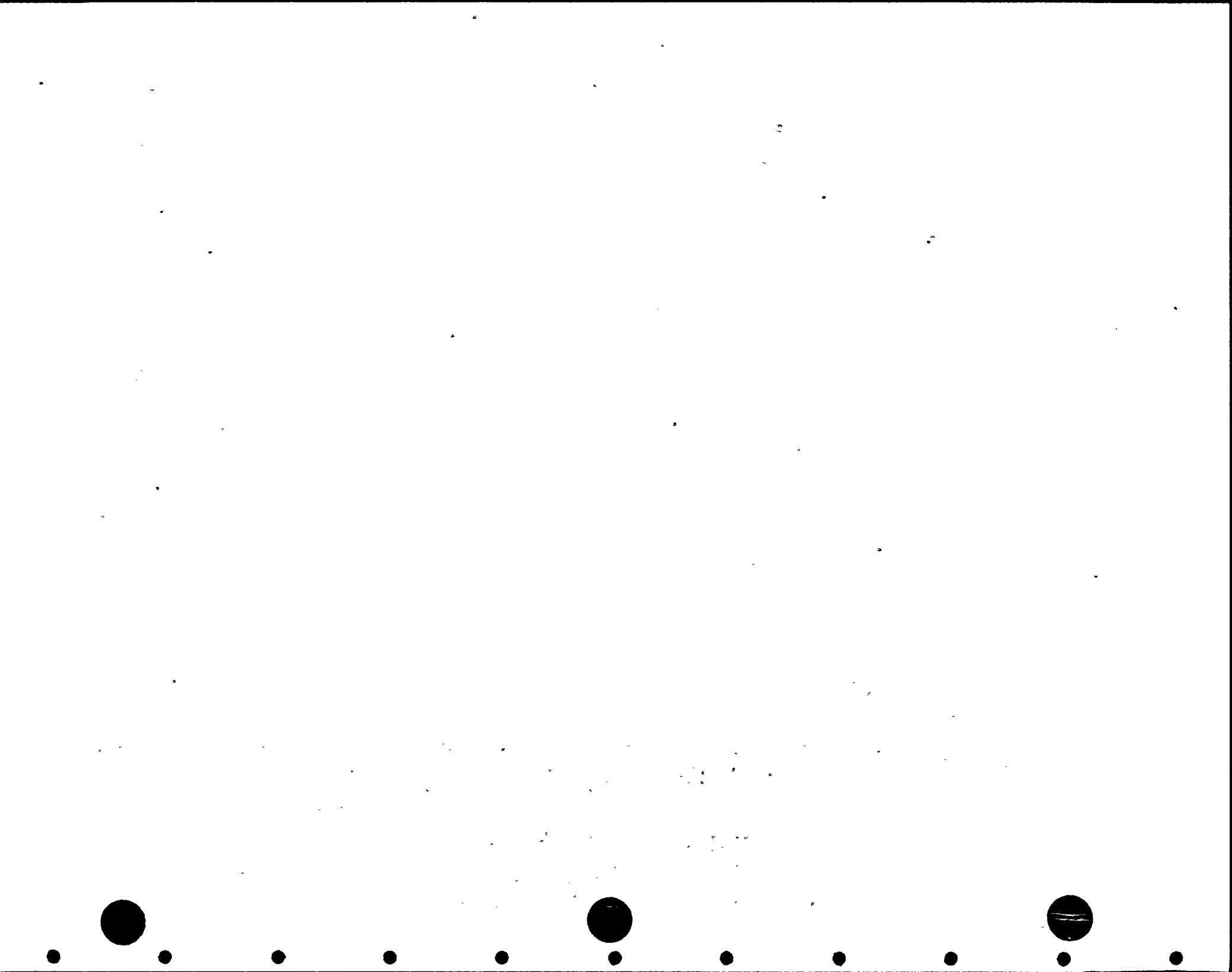
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|------------|------------|----------------------|---------------------|-----------------|----------------------|-------|------------------------------------|
| | | | NO INDIC. | INSIGNIF INDIC. | SIGNIFICANT GEOMETRY | OTHER | |
| MS-155 | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |
| MS-178 | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |
| MS-179 | VT3H | 1HV-0193 | ACCEP | | | | NO RECORDABLE INDICATIONS |
| MS-152 | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |
| MS-151 | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |
| MS-150 | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |
| MS-149 | VT3H | 1HV-0193 | ACC | | | | LOOSE LCKNUT ON E. STRUT TIGHTENED |
| MS-146 | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |
| MS-144 | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |
| MS-144 | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |
| MS-142 | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R5
DRAWING NO. MS-203

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

PAGE 001
DATE 10/22/90

| <u>IDENT. NO.</u> | <u>EXAM. MTH.</u> | <u>EXAM. DATA SHEET NO.</u> | <u>EXAMINATION RESULTS</u> | | | | <u>REMARKS</u> |
|-------------------|-------------------|-----------------------------|----------------------------|------------------------|--------------------|--------------|---|
| | | | <u>NO INDIC.</u> | <u>INSIGNIF INDIC.</u> | <u>SIGNIFICANT</u> | | |
| | | | | | <u>GEOMETRY</u> | <u>OTHER</u> | |
| MS-31 | VT3H | 1HV-0193 | ACC | | | | HANDTIGHT JAMB NUT ON WEST STRUT TIGHTENED. |
| MS-30 | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |
| MS-49 | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |
| MS-28 | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |
| MS-141 | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |
| MS-24 | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |

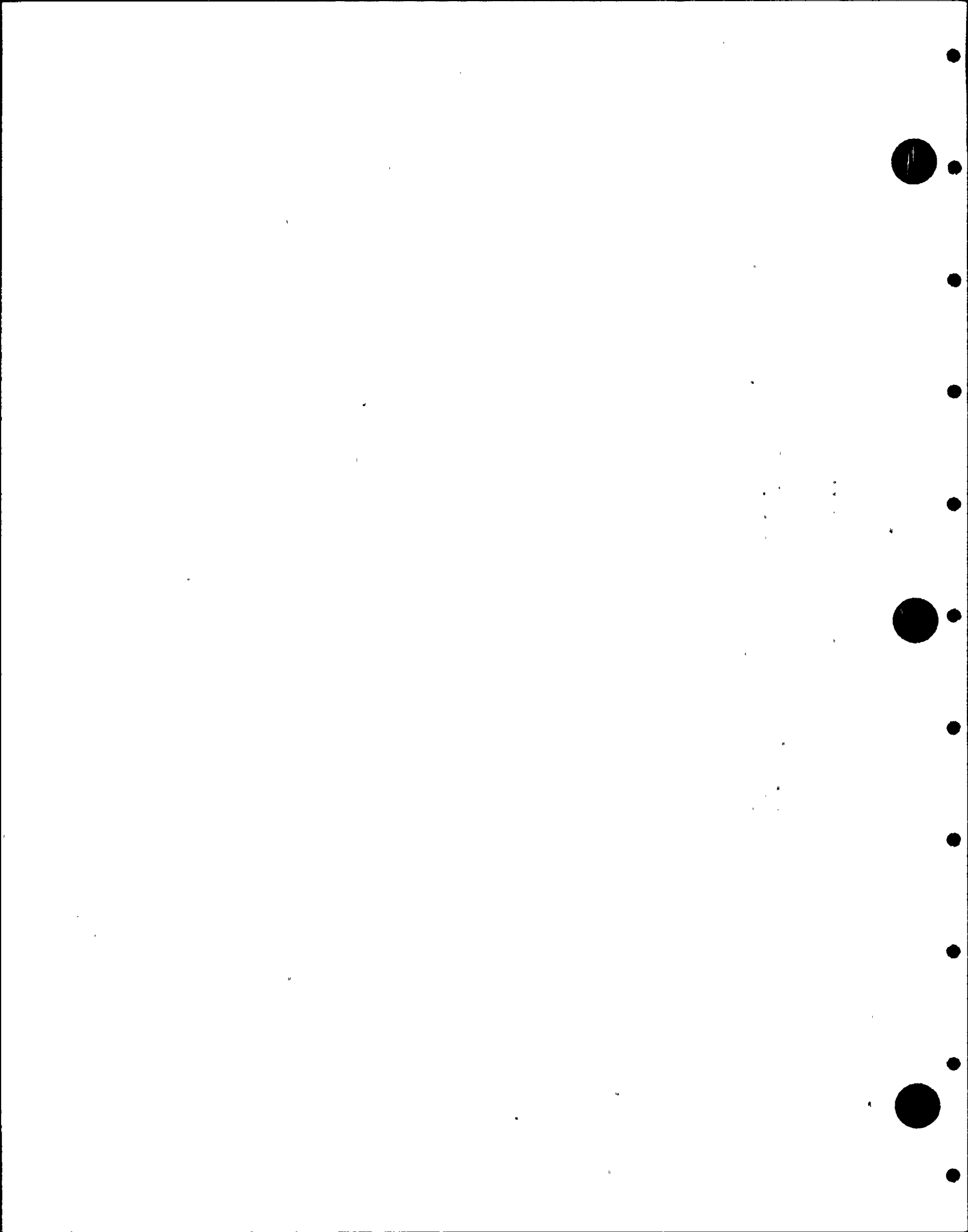


WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R5
DRAWING NO. MS-204

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

PAGE 001
DATE 10/22/90

| <u>IDENT..NO.</u> | <u>EXAM.</u> <u>MT.</u> | <u>EXAM.</u> <u>NO.</u> | <u>EXAMINATION RESULTS</u> | | | | <u>REMARKS</u> |
|-------------------|----------------------------|----------------------------|----------------------------|-----------------|--------------------|--------------|---------------------------|
| | | | <u>NO</u> | <u>INSIGNIF</u> | <u>SIGNIFICANT</u> | <u>OTHER</u> | |
| MS-55 | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |

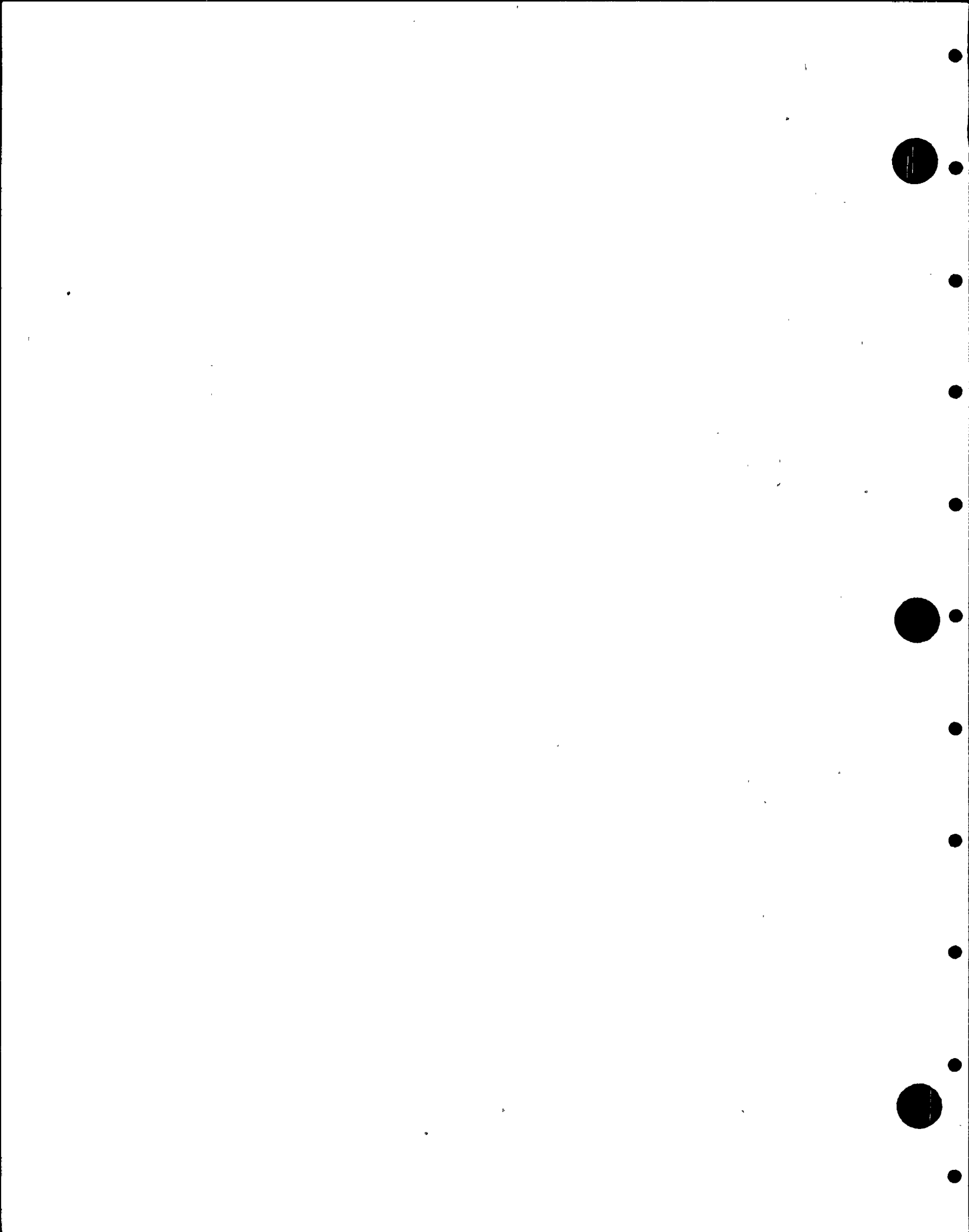


WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R5
DRAWING NO. MS-206

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT +QC I SN
DESCRIPTION: MISC SNUBBERS

PAGE 001
DATE 10/22/90

| <u>IDENT. NO.</u> | <u>EXAM. MTH.</u> | <u>EXAM. SHEET NO.</u> | <u>EXAMINATION RESULTS</u> | | | | <u>REMARKS</u> |
|-------------------|-------------------|------------------------|----------------------------|-------------------------|-----------------------------|--------------|--|
| | | | <u>NO. INDIC.</u> | <u>INSIGNIF. INDIC.</u> | <u>SIGNIFICANT GEOMETRY</u> | <u>OTHER</u> | |
| MS-256 | VT3H | 1HV-0204 | ACC | | | | TOP SNUBBER DELETED, BOTTOM SNUBBER REPLACED WITH STRUT. SECT. XI PLAN 2-0552. PSI OF NEW STRUT. |



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

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

PAGE 001
 DATE 10/22/90

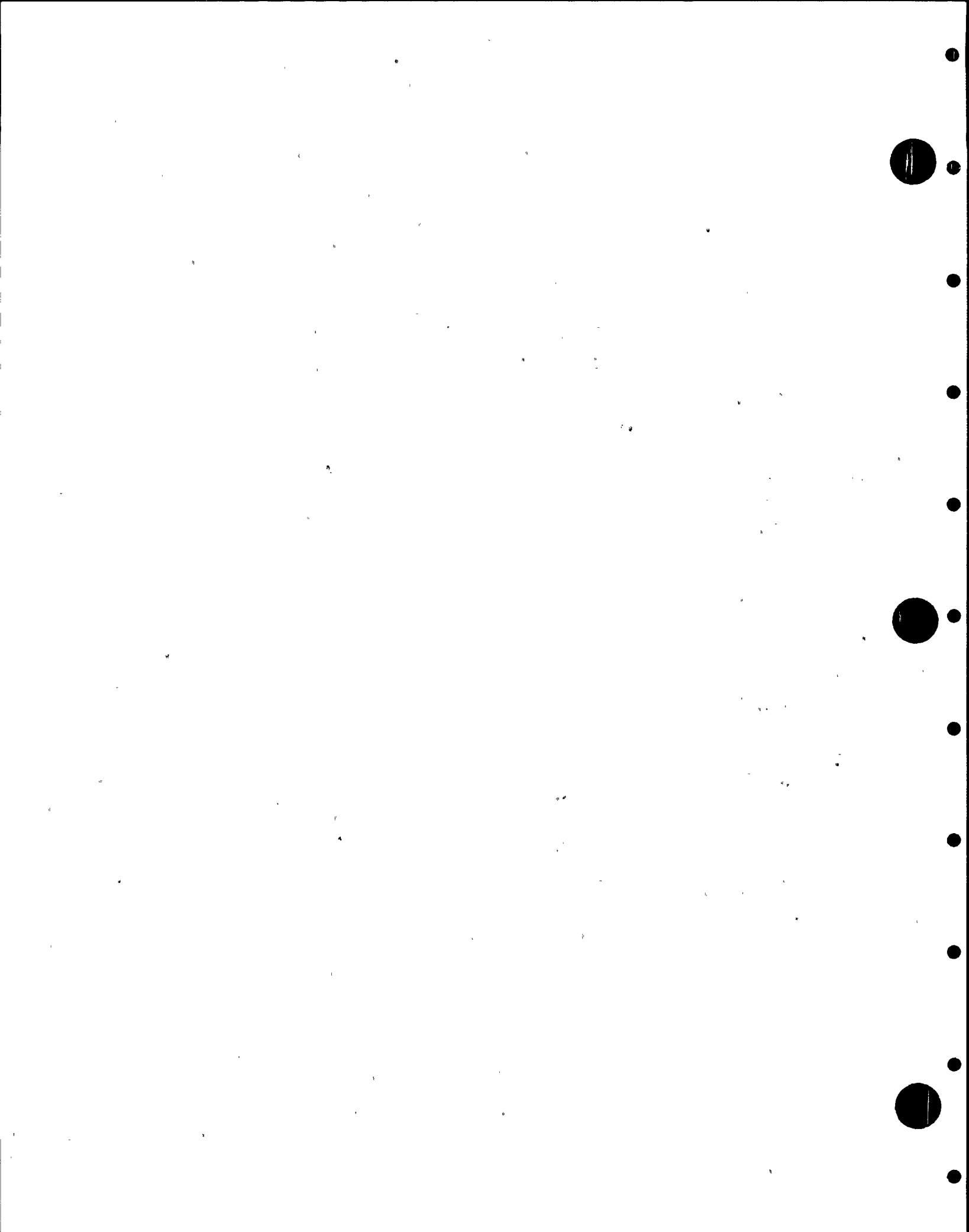
| IDENT. NO. | EXAM. MTH. | EXAM. DATA SHEET NO. | EXAMINATION RESULTS | | | REMARKS |
|--------------|------------|----------------------|---------------------|-----------------|----------------------------|--|
| | | | NO INDIC. | INSIGNIF INDIC. | SIGNIFICANT GEOMETRY OTHER | |
| RFW-148 | VT3H | 1HV-0211 | ACC | | | SNUBBER REPLACED WITH STRUT AT R5. SECT. XI PLAN 2-0591. PSI OF NEW STRUT. |
| 24RFW(1)A-9 | VOL | 1FWU-080 | 45 | | | NO RECORDABLE INDICATIONS |
| 24RFW(1)A-12 | SUR | 1FWM-008 | ACC | | | NO RECORDABLE INDICATIONS |
| | VOL | 1FWU-082 | 45 | | | NO RECORDABLE INDICATIONS |
| 12RFW(1)AB-3 | SUR | 1FWM-011 | ACC | | | NO RECORDABLE INDICATIONS |
| | VOL | 1FWU-086 | 45 | | | NO RECORDABLE INDICATIONS |
| 12RFW(1)AA-1 | SUR | 1FWM-013 | ACC | | | NO RECORDABLE INDICATIONS |
| | VOL | 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 | VOL | 1FWU-085 | 45 | | | NO RECORDABLE INDICATIONS |
| | SUR | 1FWM-017 | ACC | | | NO RECORDABLE INDICATIONS |
| RFW-151 | VT3H | 1HV-0198 | ACC | | | NO RECORDABLE INDICATIONS |

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

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

PAGE 002
 DATE 10/22/90

| <u>IDENT. NO.</u> | <u>EXAM. MTH.</u> | <u>EXAM. DATA SHEET NO.</u> | <u>EXAMINATION RESULTS</u> | | | | <u>REMARKS</u> | |
|-------------------|-------------------|-----------------------------|----------------------------|------------------------|--------------------|--------------|----------------|----------------------------|
| | | | <u>NO INDIC.</u> | <u>INSIGNIF INDIC.</u> | <u>SIGNIFICANT</u> | | | |
| | | | | | <u>GEOMETRY</u> | <u>OTHER</u> | | |
| 12RFW(1)AA-4 | VOL | 1FWU-085 | 45 | | | | | NO RECORDABLE INDICATIONS |
| RFW-929N | SUR | 1FWM-012 | ACC | | | | | NO RECORDABLE INDICATIONS |
| RFW-159 | VT3H | 1HV-0197 | ACC | | | | | NO RECORDABLE INDICATIONS |
| 12RFW(1)AA-8 | VT3H | 1HV-0203 | ACC | | | | | NO RECORDABLE INDICATIONS |
| | VOL | 1FWU-098 | 45 | | | | | NO RECORDABLE INDICATIONS |
| RFW-PB-101(L) | SUR | 1FWM-021 | ACC | | | | | NO RECORDABLE INDICATIONS |
| | VT-2 | 1VT2-90 | ACC | | | | | NO RECORDABLE INDICATIONS. |

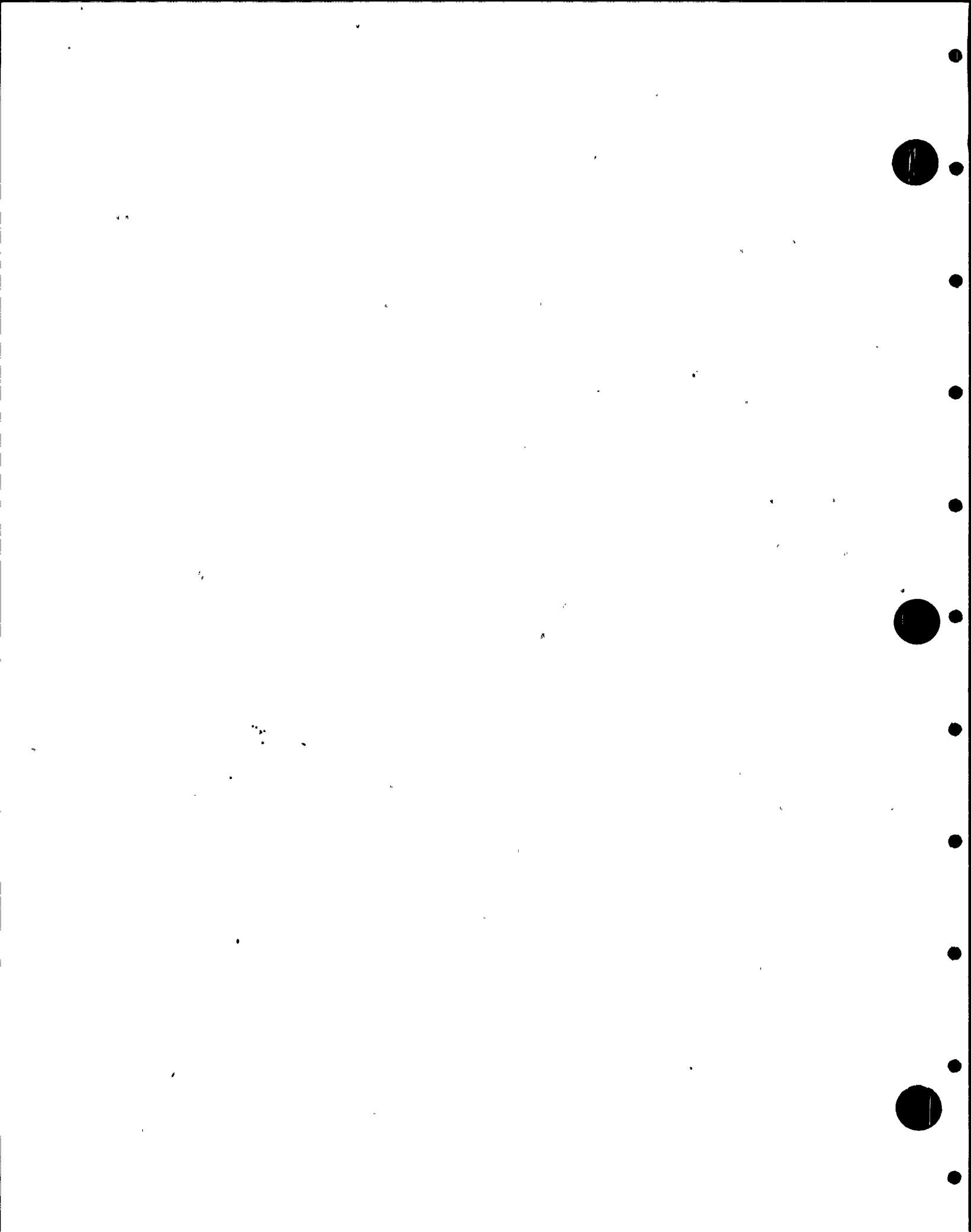


WNP-02
 INTERVAL: 01
 PERIOD: 2
 OUTAGE: R5
 DRAWING NO. RFW-102

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

PAGE 001
 DATE 10/22/90

| IDENT. NO. | EXAM. HTH. | EXAM. DATA SHEET NO. | EXAMINATION RESULTS | | | | REMARKS |
|---------------|------------|----------------------|---------------------|-----------------|-------------|-------|--|
| | | | NO INDIC. | INSIGNIF INDIC. | SIGNIFICANT | | |
| | | | | | GEOMETRY | OTHER | |
| RFW-182 | VT3H | 1HV-0200 | ACC | | | | NO RECORDABLE INDICATIONS |
| RFW-164 | VT3H | 1HV-0212 | ACC | | | | SNUBBER REPLACED WITH STRUT AT R5. SECT. XI PLAN 2-0591. PSI OF NEW STRUT. |
| 24RFW(1)B-12 | VOL | 1FWU-083 | 45 | | | | NO RECORDABLE INDICATIONS |
| RFW-184 | SUR | 1FWM-015 | ACC | | | | NO RECORDABLE INDICATIONS |
| 12RFW(1)BE-9 | VT3H | 1HV-0201 | ACC | | | | NO RECORDABLE INDICATIONS |
| | 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 |
| | VOL | 1FWU-084 | 45 | | | | NO RECORDABLE INDICATIONS |



WNP-02
 INTERVAL: 01
 PERIOD: 2
 OUTAGE: R5
 DRAWING NO. RFW-102

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

PAGE 002
 DATE 10/22/90

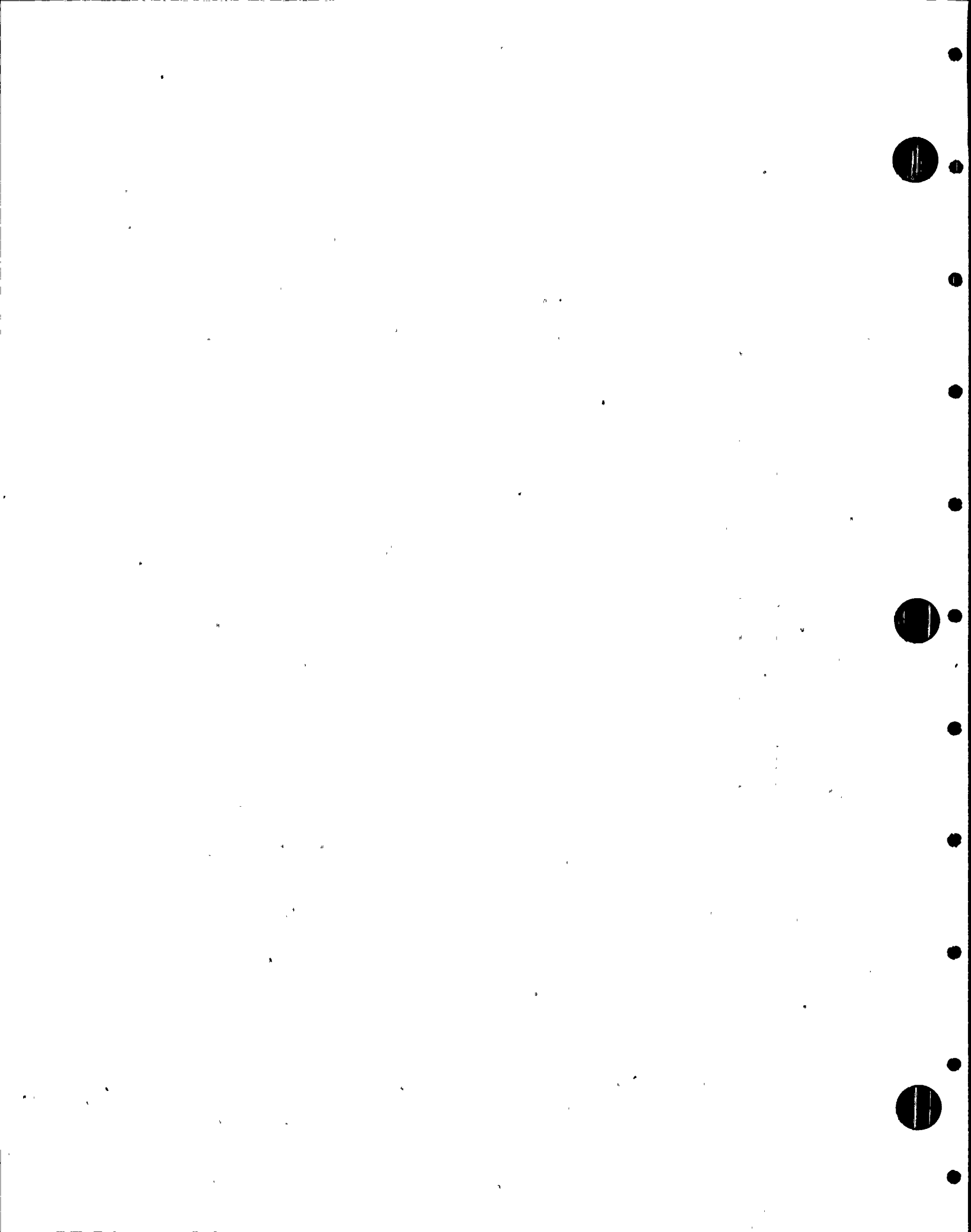
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|---------------|---------------|-------------------------------|---------------------|--------------------|-------------------------------|--|--|
| | | | NO INDIC. | INSIGNIF INDIC. | SIGNIFICANT GEOMETRY OTHER | | |
| RFW-171 | SUR | 1FWM-014 | ACC | | | | NO RECORDABLE INDICATIONS |
| RFW-915N | VT3H | 1HV-0195 | ACC | | | | NO RECORDABLE INDICATIONS |
| RFW-183 | VT3H | 1HV-0194 | ACC | | | | NO RECORDABLE INDICATIONS |
| | VT3H | 1HV-0202 | | ACC | | | LOOSE CLAMP BOLT TIGHTENED. MED. RUST ON PIN AND TURNBUCKLES FROM DRYWELL COOLER MOISTURE DRIPPING ON COMPONENTS. |
| 12RFW(1)BD-7 | VOL | 1FWU-097 | 45 | | | | NO RECORDABLE INDICATIONS |
| 12RFW(1)BD-8 | SUR | 1FWM-023 | ACC | | | | NO RECORDABLE INDICATIONS |
| | VOL | 1FWU-096 | 45 | | | | NO RECORDABLE INDICATIONS |
| RFW-PB-102(L) | SUR | 1FWM-022 | ACC | | | | NO RECORDABLE INDICATIONS |
| | VT-2 | 1VT2-90 | ACC | | | | NO RECORDABLE INDICATIONS. |

WNP-02
 INTERVAL: 01
 PERIOD: 2
 OUTAGE: R5
 DRAWING NO. RFW-103

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

PAGE 001
 DATE 10/22/90

| IDENT. NO. | EXAM. MTH. | EXAM. DATA SHEET NO. | EXAMINATION RESULTS | | | | REMARKS |
|-------------|------------|----------------------|---------------------|-----------------|----------------------|-------|---|
| | | | NO INDIC. | INSIGNIF INDIC. | SIGNIFICANT GEOMETRY | OTHER | |
| RFW-177 | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |
| 6RFW(11)-4 | VOL | 1FWU-089 | 45 | | | | LIMITED SCAN ON PIPE-SIDE DUE TO WELDED LUGS. |
| | SUR | 1FWM-019 | ACC | | | | NO RECORDABLE INDICATIONS |
| 6RFW(11)-5 | VOL | 1FWU-089 | 45 | | | | NO RECORDABLE INDICATIONS |
| | SUR | 1FWM-019 | ACC | | | | NO RECORDABLE INDICATIONS |
| 6RFW(11)-6 | VOL | 1FWU-087 | | 45 | | | TWO IND. AT 75% DAC. |
| | SUR | 1FWM-019 | ACC | | | | NO RECORDABLE INDICATIONS |
| 6RFW(11)-7 | VOL | 1FWU-088 | | 45 | | | TWO IND. AT 75% DAC. |
| | SUR | 1FWM-019 | ACC | | | | NO RECORDABLE INDICATIONS |
| 6RFW(11)-8 | VOL | 1FWU-089 | 45 | | | | NO RECORDABLE INDICATIONS |
| | SUR | 1FWM-019 | ACC | | | | NO RECORDABLE INDICATIONS |
| 6RFW(11)-9 | VOL | 1FWU-089 | 45 | | | | NO RECORDABLE INDICATIONS |
| | SUR | 1FWM-019 | ACC | | | | NO RECORDABLE INDICATIONS |
| 6RFW(11)-10 | VOL | 1FWU-089 | 45 | | | | NO RECORDABLE INDICATIONS |



WNP-02
 INTERVAL: 01
 PERIOD: 02
 OUTAGE: R5
 DRAWING NO. RFW-103

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

PAGE 002
 DATE 10/22/90

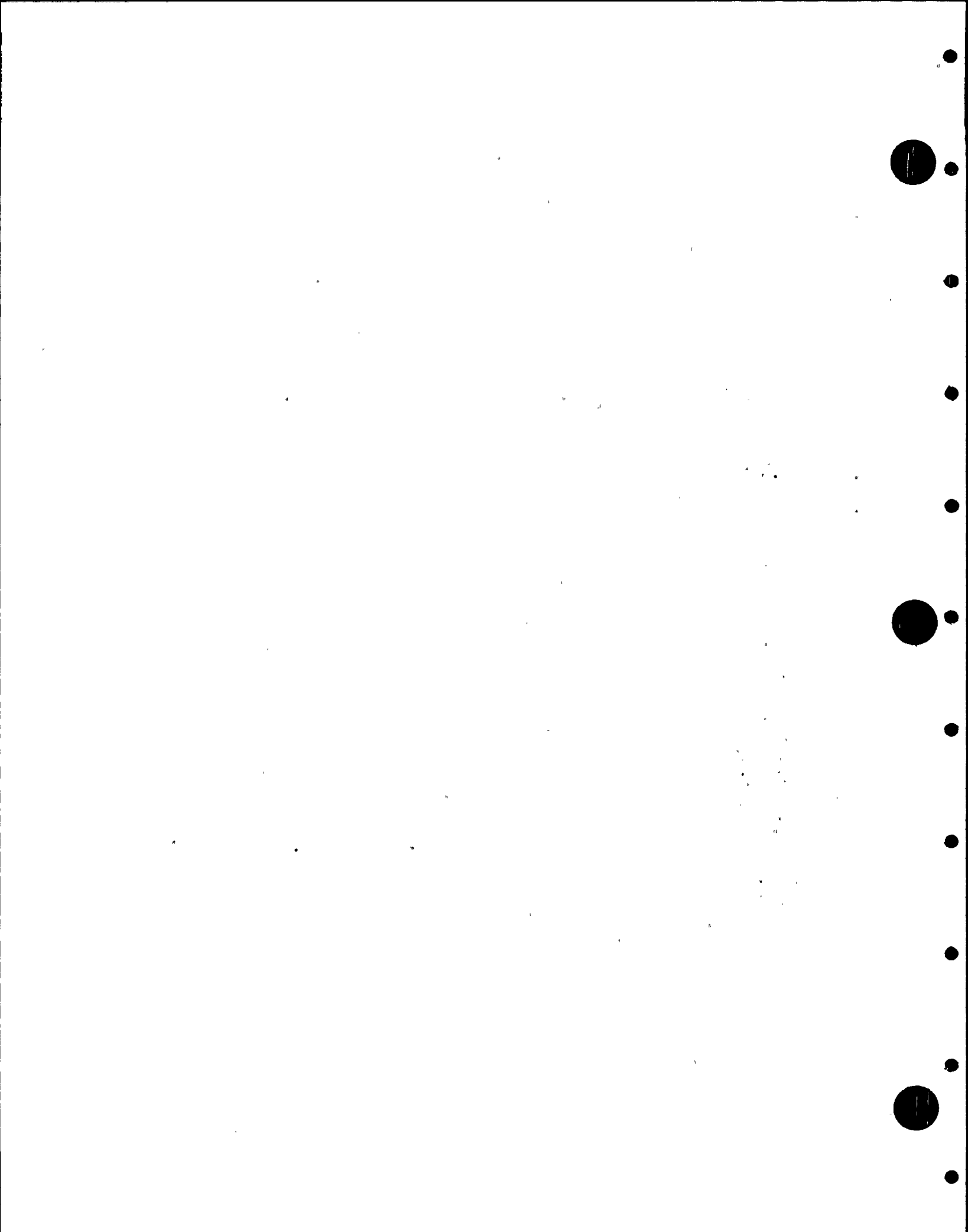
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|------------------------|---------------|-------------------------------|---------------------|--------------------|-------------------------------|--|
| | | | NO INDIC. | INSIGNIF INDIC. | SIGNIFICANT GEOMETRY OTHER | |
| 4RFW(11)B-1 | SUR | 1FWM-019 | ACC | | | NO RECORDABLE INDICATIONS |
| | VOL | 1FWU-090 | | 45 | | ID GEOMETRY NOTED AT 60-75% DAC. NO EXAM ON UPST SIDE DUE REDUCER CONFIGURATION. |
| 4RFW(11)B-1A | SUR | 1FWM-020 | ACC | | | NO RECORDABLE INDICATIONS |
| | VOL | 1FWU-091 | | 45 | | ID GEOMETRY NOTED AT 70-110% DAC. |
| 4RFW(11)B-2 | SUR | 1FWM-020 | ACC | | | NO RECORDABLE INDICATIONS |
| | VOL | 1FWU-092 | | 45 | | ID GEOMETRY NOTED AT 55-95% DAC. |
| 4RFW(11)B-3 | SUR | 1FWM-020 | ACC | | | NO RECORDABLE INDICATIONS |
| | VOL | 1FWU-093 | | 45 | | ID GEOMETRY AND WELD TIE-IN NOTED AT 50-125% DAC. |
| RFW-181 4RFW(11)B-4 | SUR | 1FWM-020 | ACC | | | NO RECORDABLE INDICATIONS |
| | VT3H | 1HV-0193 | ACC | | | NO RECORDABLE INDICATIONS |
| 4RFW(11)B-5 | VOL | 1FWU-094 | | 45 | | ID GEOMETRY NOTED AT 80% DAC. |
| | SUR | 1FWM-020 | ACC | | | NO RECORDABLE INDICATIONS |
| | VOL | 1FWU-095 | | 45 | | ID GEOMETRY NOTED AT 80% DAC. |

WNP-02
INTERVAL: 01
PERIOD: 02
OUTAGE: R5
DRAWING NO. RFW-103

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

PAGE 003
DATE 10/22/90

| <u>IDENT. NO.</u> | <u>EXAM. MTH.</u> | <u>EXAM. DATA SHEET NO.</u> | <u>EXAMINATION RESULTS</u> | | | | <u>REMARKS</u> |
|-------------------|-------------------|-----------------------------|----------------------------|-------------------------|-----------------------------|--------------|---------------------------|
| | | | <u>INDIC.</u> | <u>INSIGNIF. INDIC.</u> | <u>SIGNIFICANT GEOMETRY</u> | <u>OTHER</u> | |
| RFW-PB-103(L) | SUR | 1FWM-020 | ACC | | | | NO RECORDABLE INDICATIONS |
| | VT-2 | 1VT2-90 | ACC | | | | NO RECORDABLE INDICATIONS |



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

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

PAGE 001
 DATE 10/22/90

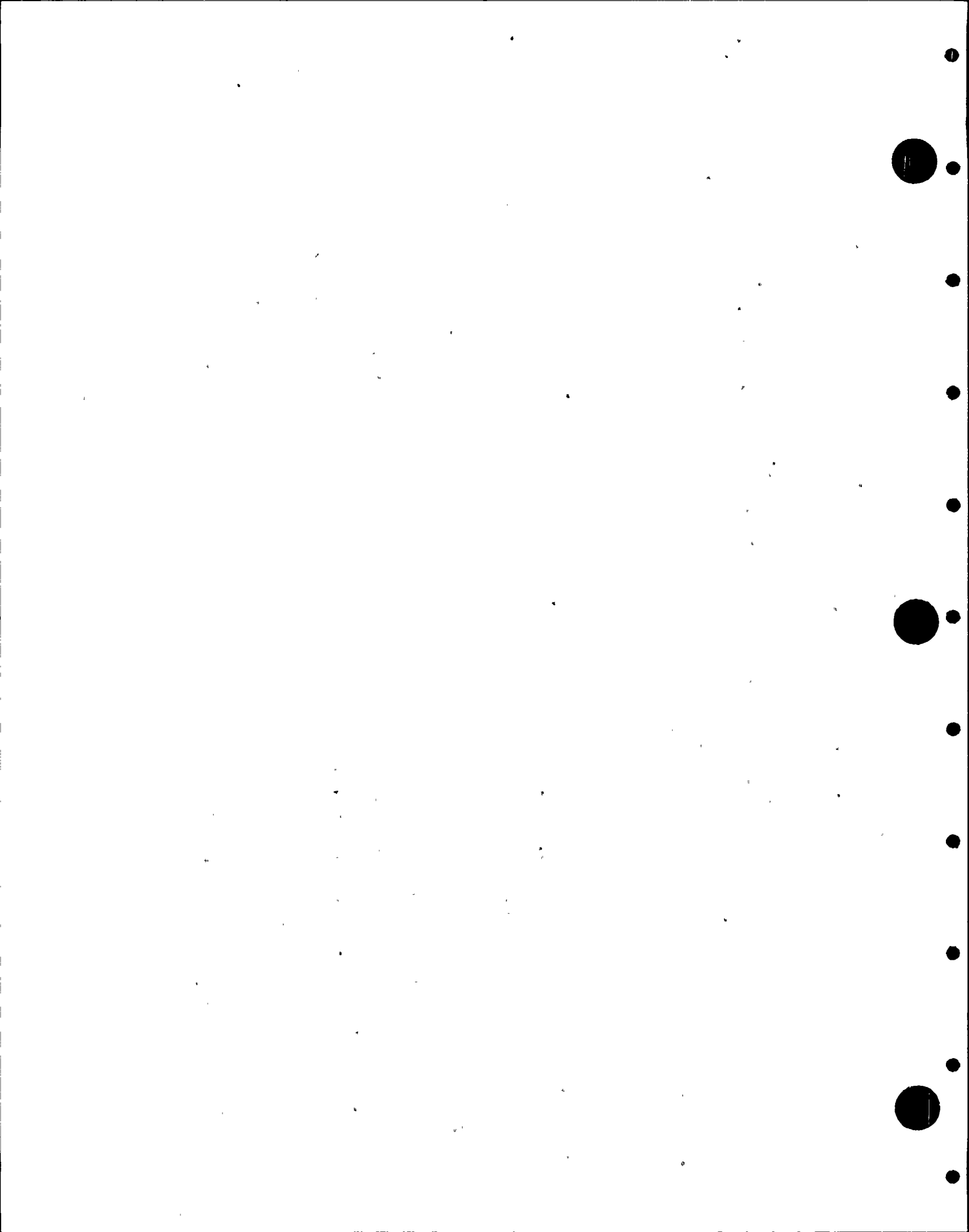
| IDENT. NO. | EXAM. MTH. | EXAM. DATA SHEET NO. | EXAMINATION RESULTS | | | | REMARKS |
|--------------------------|------------|----------------------|---------------------|-----------------|----------------------|-------|--|
| | | | INDIC. | INSIGNIF INDIC. | SIGNIFICANT GEOMETRY | OTHER | |
| RRC-V-60A-BDY | 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 | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |
| 16RRC(1)A-1/12RRC(1)-N2D | VOL | 1RRU-139 | 45 | | | | LIMITED SCAN FROM SWEEPolet SIDE DUE TO CONFIGURATION. |
| RRC-SA-13 | SUR | 1RRP-079 | ACC | | | | NO RECORDABLE INDICATIONS |
| RRC-SA-11 | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |
| 16RRC(1)A-1/12RRC(1)-N2E | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |
| | VOL | 1RRU-138 | 45, 59 | | | | LIMITED SCAN ON SWEEPolet SIDE DUE TO CONFIGURATION. |
| 16RRC(1)A-3 | SUR | 1RRP-077 | ACC | | | | NO RECORDABLE INDICATIONS |
| | VOL | 1RRU-139 | 45 | | | | LIMITED SCANS ON CROSS SIDE DUE TO CONFIGURATION. |
| RRC-HA-8 | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |

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

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

PAGE 002
 DATE 10/22/90

| IDENT. NO. | EXAM. MTH. | EXAM. DATA SHEET NO. | EXAMINATION RESULTS | | REMARKS |
|------------------|------------|----------------------|---------------------|--|--|
| | | | NO INDIC. | INSIGNIF INDIC. SIGNIFICANT GEOMETRY OTHER | |
| 16RRC(1)A-3/12 | RRC(1)-N2B | | | | |
| | 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 | VT3H | 1HV-0193 | ACC | | NO RECORDABLE INDICATIONS |
| 16RRC(1)A-3/12 | RRC(1)-N2A | | | | |
| | VOL | 1RRU-138 | 45, 59 | | LIMITED SCANS ON SWEEPOLET SIDE DUE TO CONFIGURATION. |
| 16RRC(1)A-4 | SUR | 1RRP-074 | ACC | | NO RECORDABLE INDICATIONS |
| | VOL | 1RRU-138 | 45, 59 | | SCANS LIMITED ON CAP SIDE DUE TO CONFIGURATION. |
| 12RRC(1)-N2A-1 | VOL | 1RRU-141 | 45 | | SCANNED FROM ONE SIDE USING 1-1/2V CALIBRATION. |
| 12RRC(1)-N2A-1LD | SUR | 1RRP-076 | ACC | | NO RECORDABLE INDICATIONS |
| | VOL | 1RRU-141 | 45 | | SCANNED FROM ONE SIDE USING 1-1/2V CALIBRATION. |
| 12RRC(1)-N2A-3 | SUR | 1RRP-075 | ACC | | NO RECORDABLE INDICATIONS |
| | VOL | 1RRU-142 | | 45, 58 | ID GEOMETRY NOTED AT 100% DAC. |

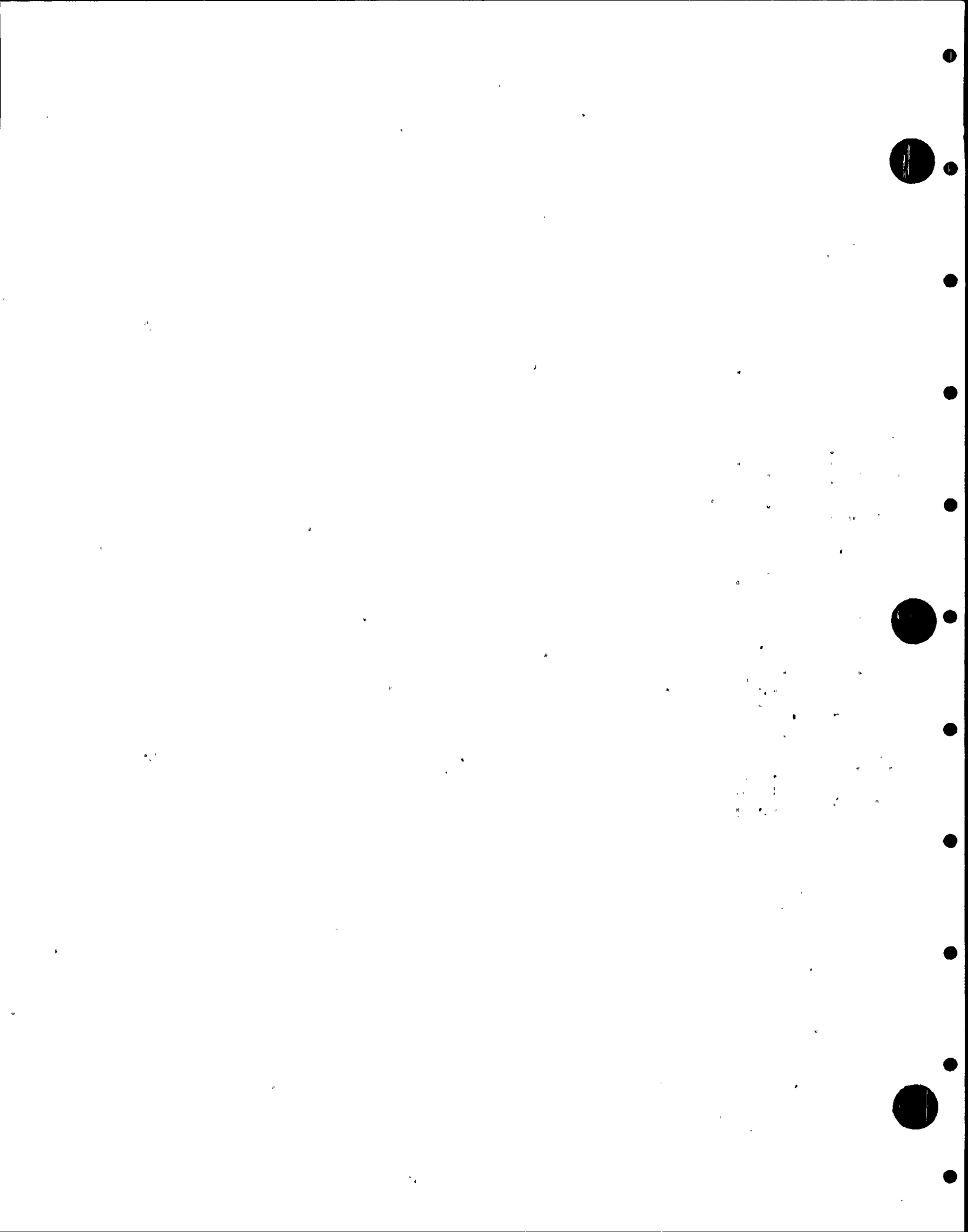


WNP-02
 INTERVAL: 01
 PERIOD: 02
 OUTAGE: R5
 DRAWING NO. RRC-101

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

PAGE 003
 DATE 10/22/90

| IDENT. NO. | EXAM. SHEET | EXAM. DATA SHEET NO. | EXAMINATION RESULTS | | | | REMARKS |
|-------------------|-------------|----------------------|---------------------|-----------------|----------------------|-------|--|
| | | | NO INDIC. | INSIGNIF INDIC. | SIGNIFICANT GEOMETRY | OTHER | |
| 12RRC(1)-N2B-3 | VOL | 1RRU-142 | | 45, 58 | | | ID GEOMETRY NOTED AT 100% DAC. |
| 12RRC(1)-N2C-1 | VOL | 1RRU-140 | 45 | | | | ID GEOM. NOTED AT 70% DAC. SCANNED FROM ONE SIDE USING 1-1/2V CALIBRATION. NO SIGN OF IGSCC IN FRONT OF ID SIGNAL. |
| 12RRC(1)-N2C-1LD | SUR | 1RRP-082 | ACC | | | | NO RECORDABLE INDICATIONS |
| 12RRC(1)-N2C-1A | VOL | 1RRU-147 | 45, 58 | | | | NO RECORDABLE INDICATIONS |
| 12RRC(1)-N2C-1A | SUR | 1RRP-083 | ACC | | | | NO RECORDABLE INDICATIONS |
| 12RRC(1)-N2C-1ALD | VOL | 1RRU-140 | 45 | | | | ID GEOM. NOTED AT 70% DAC. NO SIGN OF IGSCC IN FRONT OF ID SIGNAL. |
| 12RRC(1)-N2C-3 | VOL | 1RRU-147 | 45, 58 | | | | NO RECORDABLE INDICATIONS |
| 12RRC(1)-N2D-1 | VOL | 1RRU-142 | | 45, 58 | | | ID GEOMETRY NOTED AT 100% DAC. |
| 12RRC(1)-N2D-1LD | VOL | 1RRU-147 | 45, 58 | | | | SCANNED ONLY FROM PIPE SIDE DUE TO CONFIGURATION OF SWEEPOLET. |
| 12RRC(1)-N2D-1LD | SUR | 1RRP-078 | ACC | | | | NO RECORDABLE INDICATIONS |
| | VOL | 1RRU-147 | 45, 58 | | | | NO RECORDABLE INDICATIONS |
| | SUR | 1RRP-080 | ACC | | | | NO RECORDABLE INDICATIONS |



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

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

PAGE 004
DATE 10/22/90

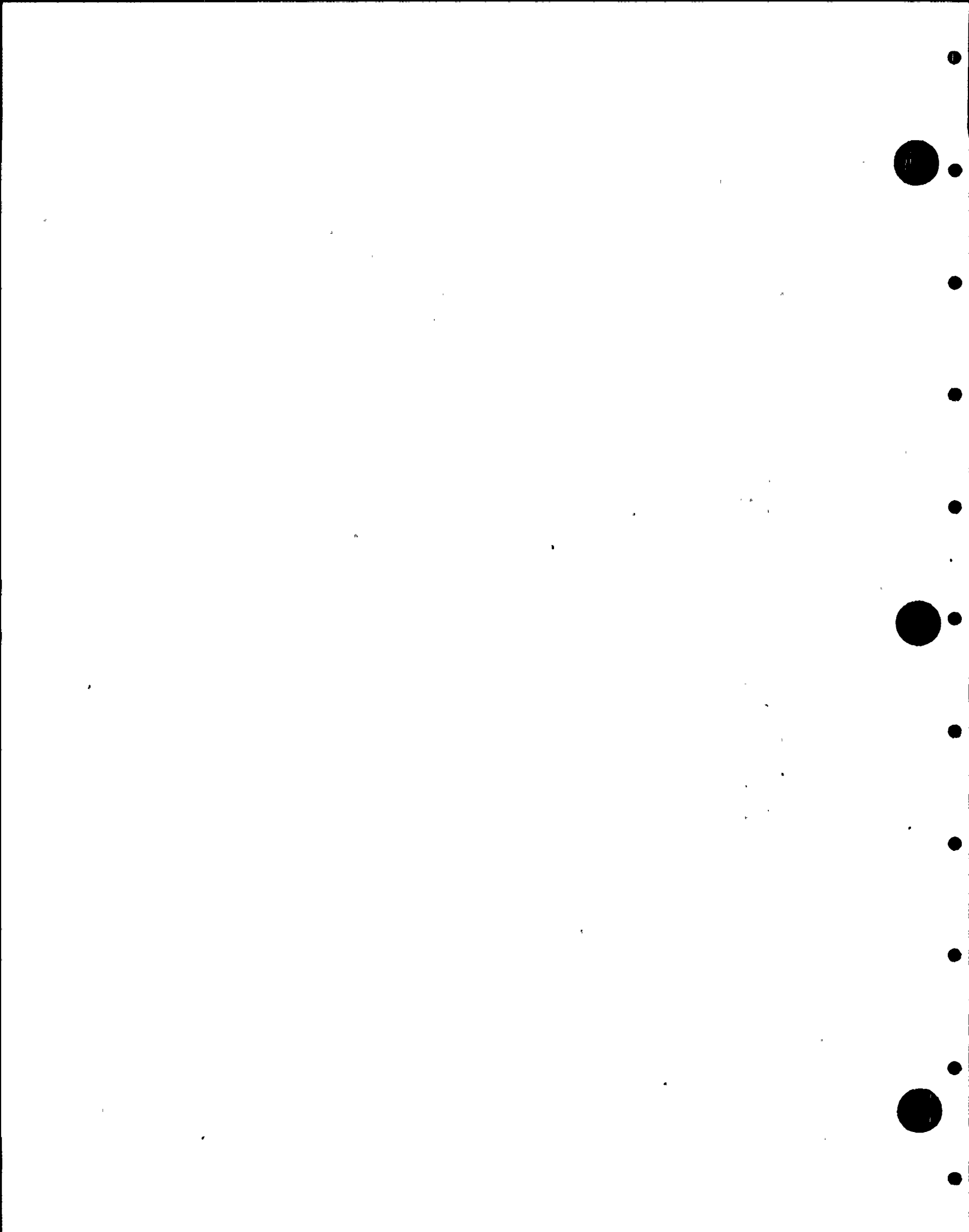
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|-------------------|-------------------|-----------------------------|----------------------------|------------------------|-----------------------------|--------------|----------------------------|
| | | | <u>NO INDIC.</u> | <u>INSIGNIF INDIC.</u> | <u>SIGNIFICANT GEOMETRY</u> | <u>OTHER</u> | |
| RRC-PB-101(L) | VT-2 | 1VT2-90 | ACC | | | | NO RECORDABLE INDICATIONS. |

WNP-02
 INTERVAL: 01
 PERIOD: 2
 OUTAGE: R5
 DRAWING NO. RRC-102

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
 NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
 SYSTEM OR COMPONENT RRC(2)-4S
 DESCRIPTION: REACTOR RECIR LOOP B

PAGE 001
 DATE 10/22/90

| IDENT. NO. | EXAM. MTH. | EXAM. DATA SHEET NO. | EXAMINATION RESULTS | | | | REMARKS |
|---------------|------------|----------------------|---------------------|-----------------|----------------------|-------|---------------------------|
| | | | NO INDIC. | INSIGNIF INDIC. | SIGNIFICANT GEOMETRY | OTHER | |
| RRC-PB-102(L) | VT-2 | 1VT2-90 | ACC | | | | NO RECORDABLE INDICATIONS |

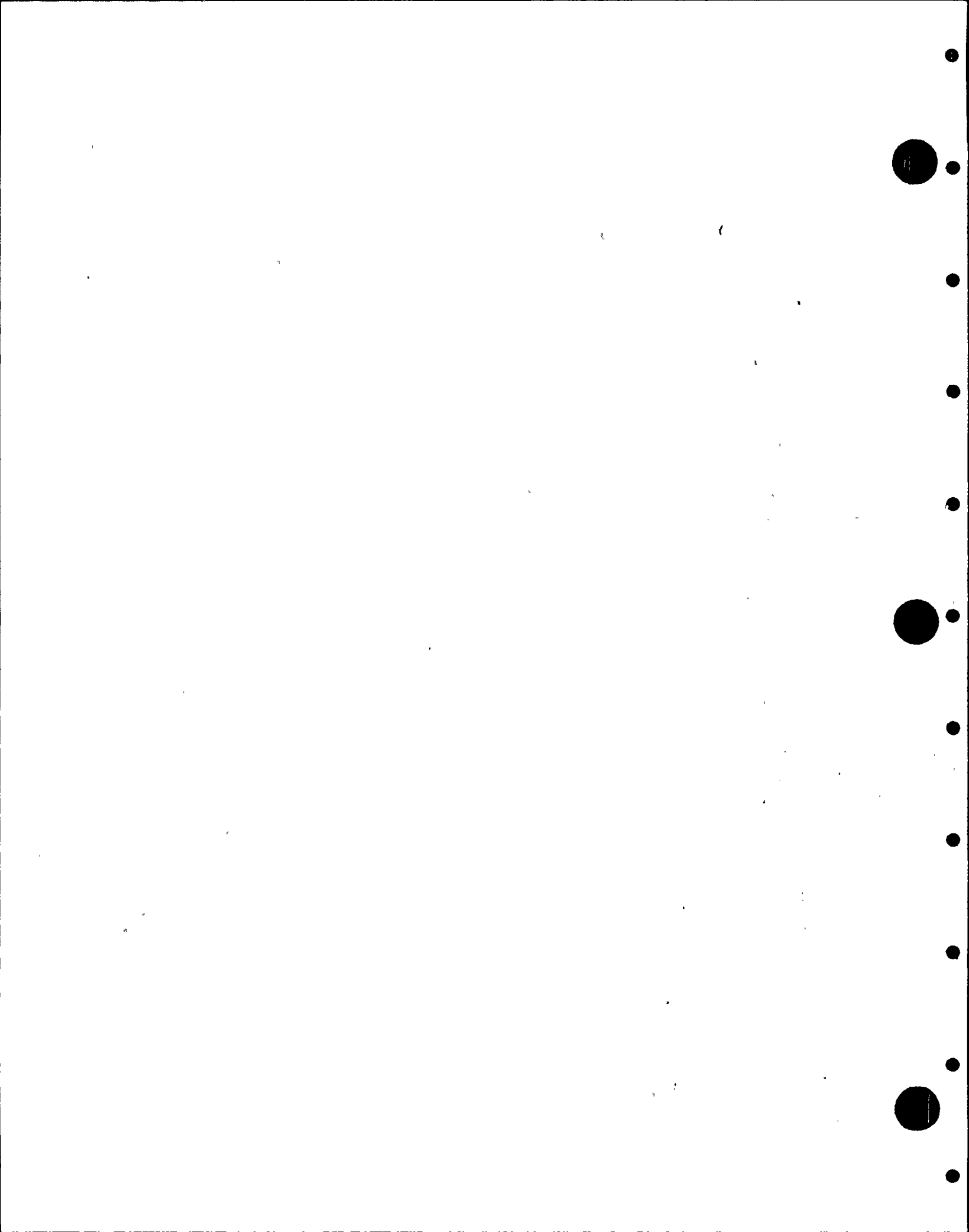


WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R5
DRAWING NO. RRC-103

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT RRC-P-1A
DESCRIPTION: RRC LOOP A PUMP

PAGE 001
DATE 10/22/90

| <u>IDENT. NO.</u> RRC-PB-103(L) | <u>EXAM. MTH.</u> VT-2 | <u>EXAM. DATA SHEET NO.</u> 1VT2-90 | <u>EXAMINATION RESULTS</u> | | | | <u>REMARKS</u> |
|------------------------------------|---------------------------|--|----------------------------|-----------------|--------------------|--------------|---|
| | | | <u>NO.</u> | <u>INSIGNIF</u> | <u>SIGNIFICANT</u> | | |
| | | | <u>INDIC.</u> | <u>INDIC.</u> | <u>GEOMETRY</u> | <u>OTHER</u> | |
| | | | ACC | | | | EXAM AREA IS COVERED ON DRAWINGS RRC-101 AND RRC-102 |

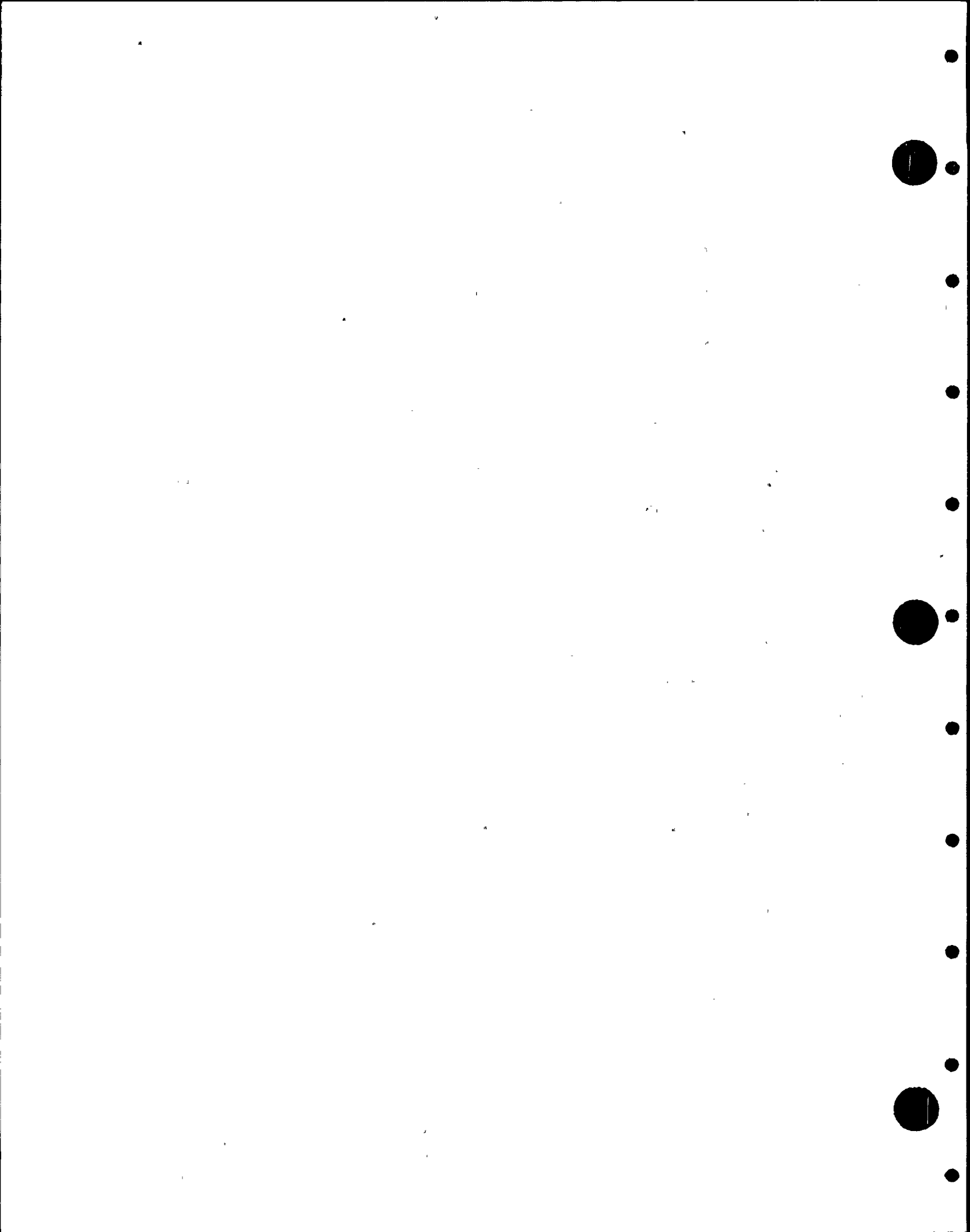


WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R5
DRAWING NO. RRC-104

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

PAGE 001
DATE 10/22/90

| <u>IDENT. NO.</u> | <u>EXAM. SHEET</u> | <u>DATA</u> | <u>EXAMINATION RESULTS</u> | | | | <u>REMARKS</u> |
|-------------------|--------------------|---------------|----------------------------|-----------------|--------------------|--|---------------------------|
| | | | <u>NO</u> | <u>INSIGNIF</u> | <u>SIGNIFICANT</u> | | |
| <u>MTN.</u> | <u>NO.</u> | <u>INDIC.</u> | <u>INDIC.</u> | <u>GEOMETRY</u> | <u>OTHER</u> | | |
| RRC-PB-104(L) | VT-2 | 1VT2-90 | ACC | | | | NO RECORDABLE INDICATIONS |



WNP-02
 INTERVAL: 01
 PERIOD: 02
 OUTAGE: R5
 DRAWING NO. RRC-105

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

PAGE 001
 DATE 10/22/90

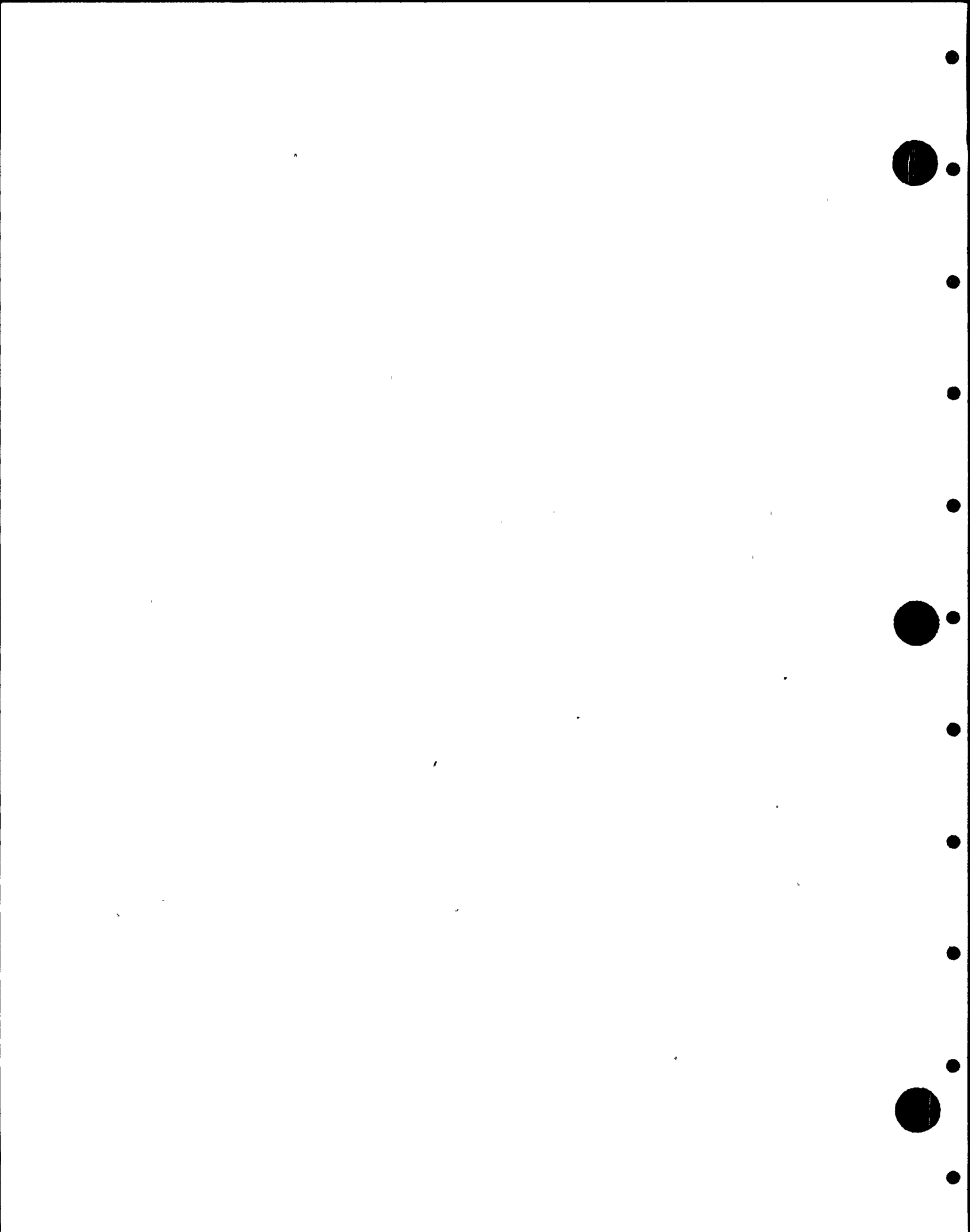
| <u>IDENT. NO.</u> | <u>EXAM. MTH.</u> | <u>EXAM. DATA SHEET NO.</u> | <u>EXAMINATION RESULTS</u> | | | | <u>REMARKS</u> |
|-------------------|-------------------|-----------------------------|----------------------------|------------------------|-----------------------------------|--|---------------------------------------|
| | | | <u>NO INDIC.</u> | <u>INSIGNIF INDIC.</u> | <u>SIGNIFICANT GEOMETRY OTHER</u> | | |
| 20RRC(6)-2LU | VOL | 1RRU-143 | 45 | | | | NO RECORDABLE INDICATIONS |
| 20RRC(6)-2 | SUR | 1RRP-084 | ACC | | | | NO RECORDABLE INDICATIONS |
| | VOL | 1RRU-144 | | 45 | | | ID GECMETRY NOTED AT 80% DAC. |
| 20RRC(6)-2LDI | SUR | 1RRP-085 | ACC | | | | NO RECORDABLE INDICATIONS |
| | VOL | 1RRU-145 | 45 | | | | NO RECORDABLE INDICATIONS |
| 20RRC(6)-2LDO | SUR | 1RRP-086 | ACC | | | | NO RECORDABLE INDICATIONS |
| | VOL | 1RRU-146 | 45 | | | | NO RECORDABLE INDICATIONS |
| RRC-1 | SUR | 1RRP-087 | ACC | | | | NO RECORDABLE INDICATIONS |
| | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |
| RHR-SA-50 | VT3H | 1HV-0193 | | ACC | | | LIGHT CORROSION ON SPHERICAL BUSHING. |
| | VT-2 | 1VT2-90 | ACC | | | | NO RECORDABLE INDICATIONS. |

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R5
DRAWING NO. RRC-106

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

PAGE 001
DATE: 10/22/90

| <u>IDENT. NO.</u> | <u>EXAM. MTH.</u> | <u>EXAM. DATA SHEET NO.</u> | <u>EXAMINATION RESULTS</u> | | | <u>REMARKS</u> |
|-------------------|-------------------|-----------------------------|----------------------------|------------------------|-----------------------------------|----------------------------|
| | | | <u>NO INDIC.</u> | <u>INSIGNIF INDIC.</u> | <u>SIGNIFICANT GEOMETRY OTHER</u> | |
| RRC-PB-106(L) | VT-2 | 1VT2-90 | ACC | | | NO RECORDABLE INDICATIONS. |



WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R5
DRAWING NO. RRC-107

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

PAGE 001
DATE 10/22/90

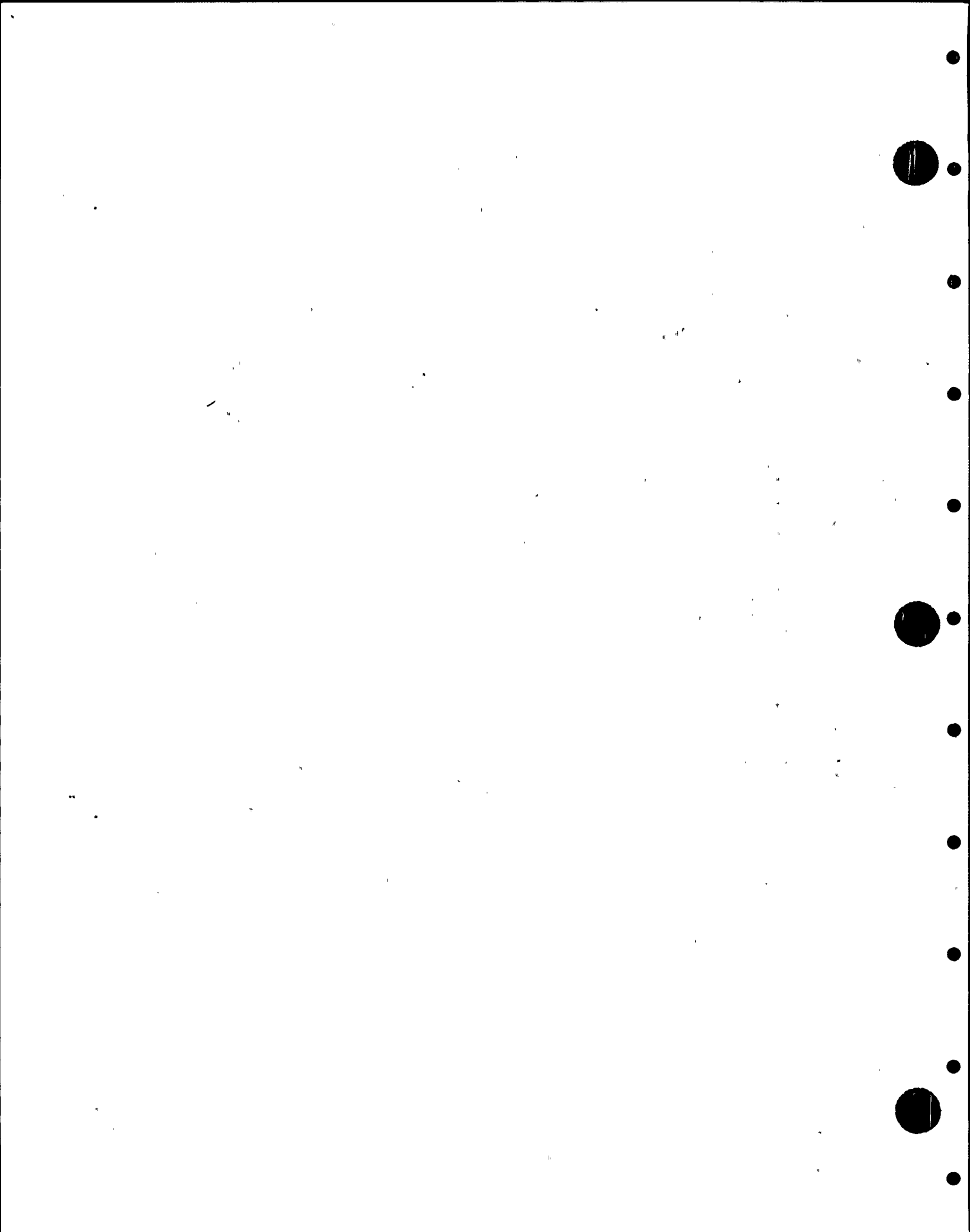
| <u>IDENT. NO.</u> | <u>EXAM. MTH.</u> | <u>EXAM. DATA SHEET NO.</u> | <u>EXAMINATION RESULTS</u> | | | <u>REMARKS</u> |
|-------------------|-------------------|-----------------------------|----------------------------|------------------------|-----------------------------------|----------------------------|
| | | | <u>NO INDIC.</u> | <u>INSIGNIF INDIC.</u> | <u>SIGNIFICANT GEOMETRY OTHER</u> | |
| RRC-PB-107(L) | VT-2 | 1VT2-90 | ACC | | | NO RECORDABLE INDICATIONS. |

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R5
DRAWING NO. RRC-108

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

PAGE 001
DATE 10/22/90

| <u>IDENT. NO.</u> | <u>EXAM. MTH.</u> | <u>EXAM. DATA SHEET NO.</u> | <u>EXAMINATION RESULTS</u> | | | | <u>REMARKS</u> | |
|-------------------|-------------------|-----------------------------|----------------------------|-----------------|--------------------|--------------|----------------|----------------------------|
| | | | <u>NO</u> | <u>INSIGNIF</u> | <u>SIGNIFICANT</u> | | | |
| | | | <u>INDIC.</u> | <u>INDIC.</u> | <u>GEOMETRY</u> | <u>OTHER</u> | | |
| RRC-PB-108(L) | VT-2 | 1VT2-90 | ACC | | | | | NO RECORDABLE INDICATIONS. |



WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R5
DRAWING NO. RRC-109

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
SYSTEM OR COMPONENT RRC(4)-4S
DESCRIPTION: RVCU INTERTIE RRC B

PAGE 001
DATE 10/22/90

| <u>IDENT. NO.</u> RRC-PB-109(L) | <u>EXAM. MTH.</u> VT-2 | <u>EXAM. DATA SHEET NO.</u> 1VT2-90 | <u>EXAMINATION RESULTS</u> | | | | <u>REMARKS</u> |
|------------------------------------|---------------------------|--|----------------------------|-----------------|--------------------|-----------------------|----------------------------|
| | | | <u>NO.</u> | <u>INSIGNIF</u> | <u>SIGNIFICANT</u> | <u>GEOMETRY OTHER</u> | |
| | | ACC | | | | | NO RECORDABLE INDICATIONS. |

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R5
DRAWING NO. RRC-110

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

PAGE 001
DATE 10/22/90

| <u>IDENT. NO.</u> | <u>EXAM. MTH.</u> | <u>EXAM. DATA SHEET NO.</u> | <u>EXAMINATION RESULTS</u> | | | | <u>REMARKS</u> |
|-------------------|-------------------|-----------------------------|----------------------------|-----------------|--------------------|--------------|----------------------------|
| | | | <u>NO</u> | <u>INSIGNIF</u> | <u>SIGNIFICANT</u> | | |
| | | | <u>INDIC.</u> | <u>INDIC.</u> | <u>GEOMETRY</u> | <u>OTHER</u> | |
| RRC-PB-110(L) | VT-2 | 1VT2-90 | ACC | | | | NO RECORDABLE INDICATIONS. |

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R5
DRAWING NO. RRC-111

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

PAGE 001
DATE 10/22/90

| <u>IDENT. NO.</u> | <u>EXAM. SHEET</u> | <u>EXAM. DATA</u> | <u>EXAMINATION RESULTS</u> | | | <u>REMARKS</u> |
|-------------------|--------------------|-------------------|----------------------------|-------------------------|-----------------------------------|----------------------------|
| | | | <u>NO. INDIC.</u> | <u>INSIGNIF. INDIC.</u> | <u>SIGNIFICANT GEOMETRY OTHER</u> | |
| RRC-PB-111(L) | VT-2 | 1VT2-90 | ACC | | | NO RECORDABLE INDICATIONS. |



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

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

PAGE 001
 DATE 10/22/90

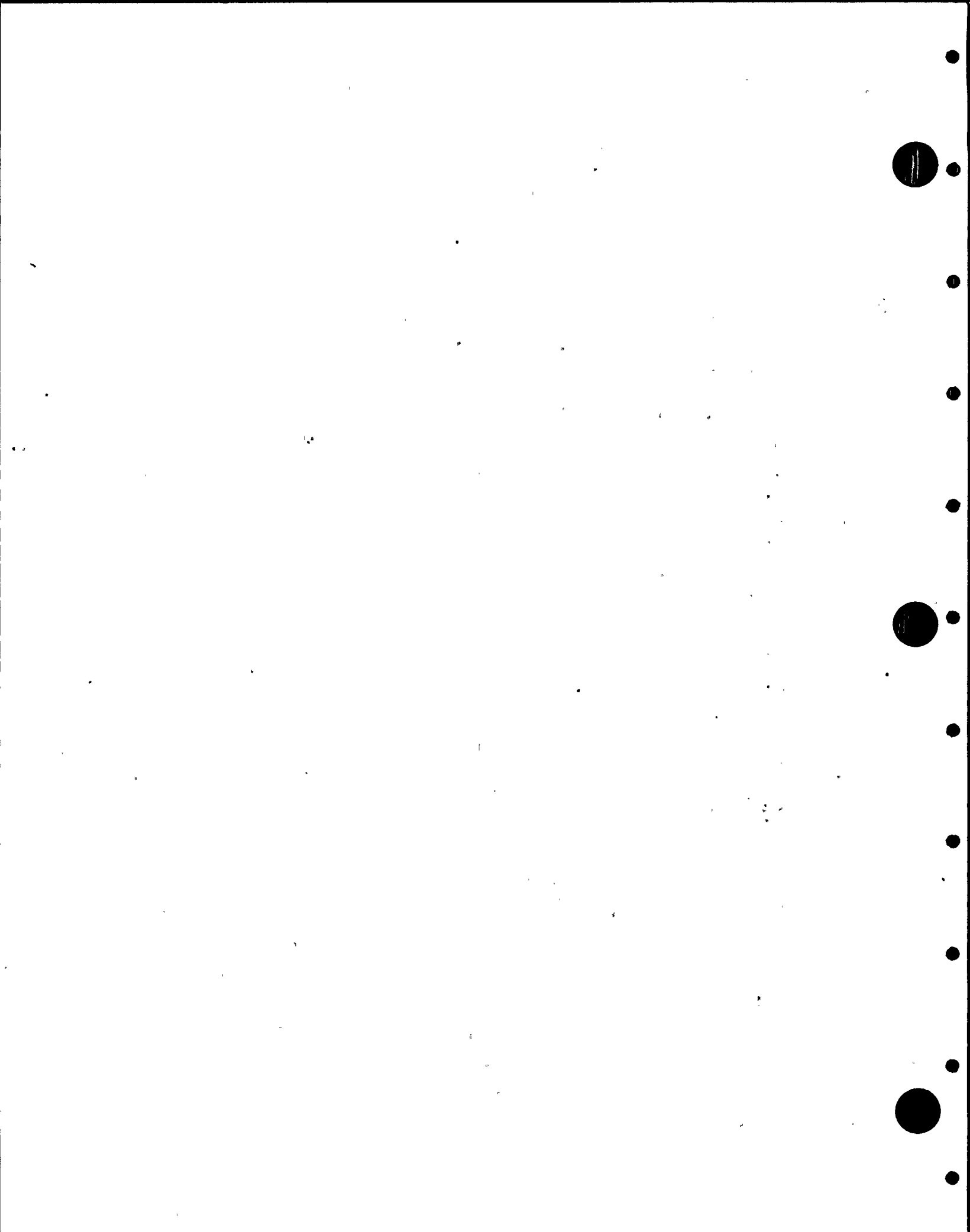
| IDENT. NO. | EXAM. MTH. | EXAM. DATA SHEET NO. | EXAMINATION RESULTS | | | | REMARKS |
|----------------|------------|----------------------|---------------------|-----------------|----------------------|-------|---|
| | | | NO INDIC. | INSIGNIF INDIC. | SIGNIFICANT GEOMETRY | OTHER | |
| RWCU-1C-4PS(W) | 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 | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |
| RWCU-1C-3(W) | SUR | 1RTM-002 | ACC | | | | NO RECORDABLE INDICATIONS |
| RWCU-1C-3 | VT3H | 1HV-0193 | | ACC | | | LIGHT CORROSION ON SPHERICAL BUSHING. |
| RWCU-PB-101(L) | VT-2 | 1VT2-90 | ACC | | | | NO RECORDABLE INDICATIONS. |

WNP-02
 INTERVAL: 01
 PERIOD: 2
 OUTAGE: R5
 DRAWING NO. RWCU-303

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
 NON-DESTRUCTIVE EXAMINATION SUMMARY TABLE
 SYSTEM OR COMPONENT RWCU(2)-4
 DESCRIPTION: RWCU HX RTN TO RFW

PAGE 001
 DATE 10/22/90

| IDENT. NO. | EXAM. MTH. | EXAM. DATA SHEET NO. | EXAMINATION RESULTS | | | | REMARKS |
|------------|------------|----------------------|---------------------|-----------------|----------------------|-------|--|
| | | | NO INDIC. | INSIGNIF INDIC. | SIGNIFICANT GEOMETRY | OTHER | |
| 6RWCU(2)-5 | VOL | 1RTU-015 | 45 | | | | NO DNST AXIAL SCAN DUE TO FLANGE CONFIGURATION. |
| 6RWCU(2)-6 | VOL | 1RTU-016 | | 45 | | | 1 IND. AT 25% DAC. NO UPST AXIAL SCAN DUE TO FLANGE CONFIGURATION. |
| 6RWCU(2)-7 | VOL | 1RTU-017 | 45 | | | | NO RECORDABLE INDICATIONS |
| 4RWCU(2)-8 | SUR | 1RTM-003 | ACC | | | | NO RECORDABLE INDICATIONS |

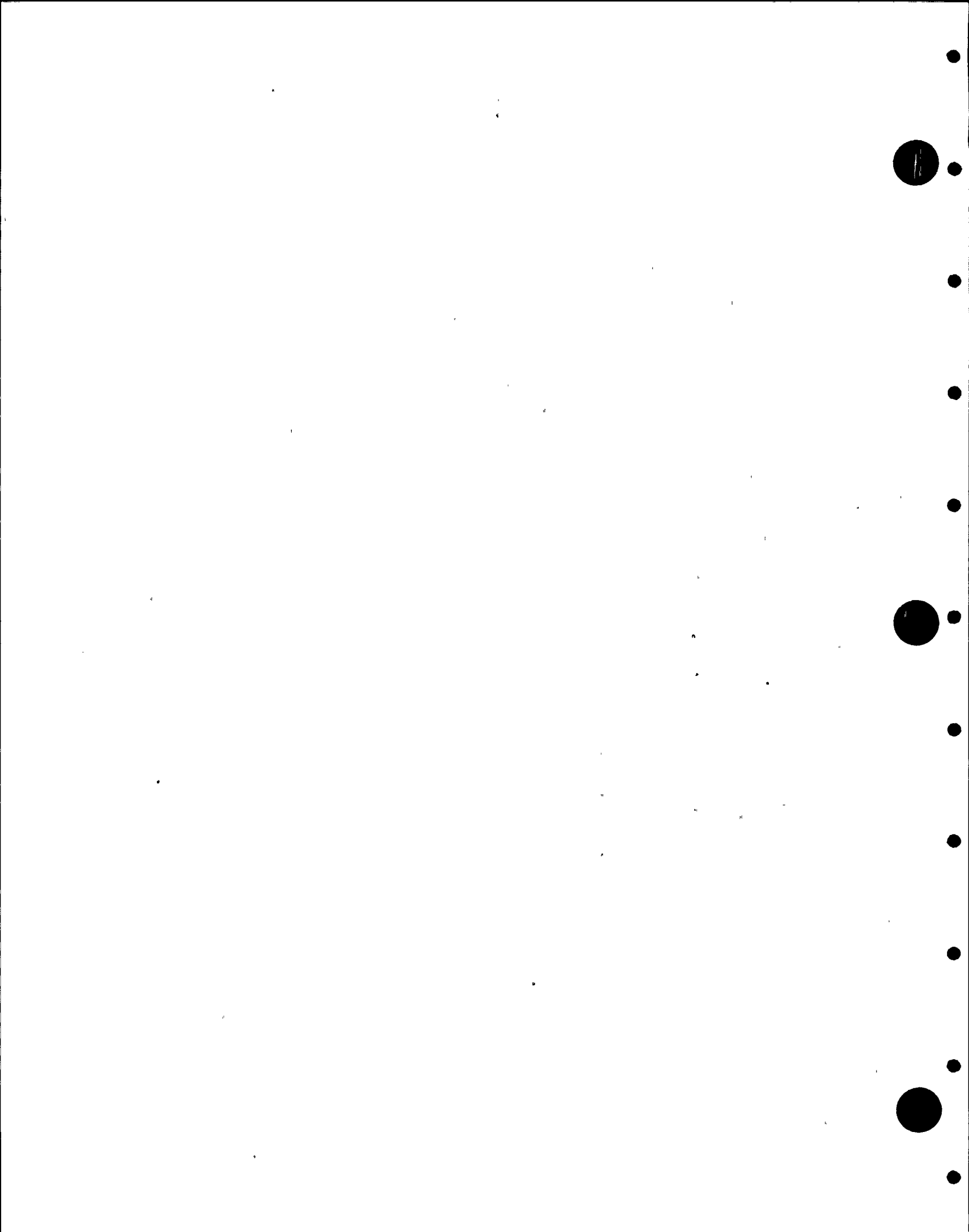


WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R5
DRAWING NO. FPC-201

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

PAGE 001
DATE 10/22/90

| <u>IDENT. NO.</u> | <u>EXAM. MTH.</u> | <u>EXAM. DATA SHEET NO.</u> | <u>EXAMINATION RESULTS</u> | | | | <u>REMARKS</u> | |
|-------------------|-------------------|-----------------------------|----------------------------|------------------------|--------------------|--------------|----------------|---------------------------|
| | | | <u>NO INDIC.</u> | <u>INSIGNIF INDIC.</u> | <u>SIGNIFICANT</u> | | | |
| | | | | | <u>GEOMETRY</u> | <u>OTHER</u> | | |
| FPC-170 | VT3H | 1HV-0193 | ACC | | | | | NO RECORDABLE INDICATIONS |
| FPC-172 | VT3H | 1HV-0193 | ACC | | | | | NO RECORDABLE INDICATIONS |
| FPC-237 | VT3H | 1HV-0193 | ACC | | | | | NO RECORDABLE INDICATIONS |
| FPC-238 | VT3H | 1HV-0193 | ACC | | | | | NO RECORDABLE INDICATIONS |
| FPC-239 | VT3H | 1HV-0193 | ACC | | | | | NO RECORDABLE INDICATIONS |

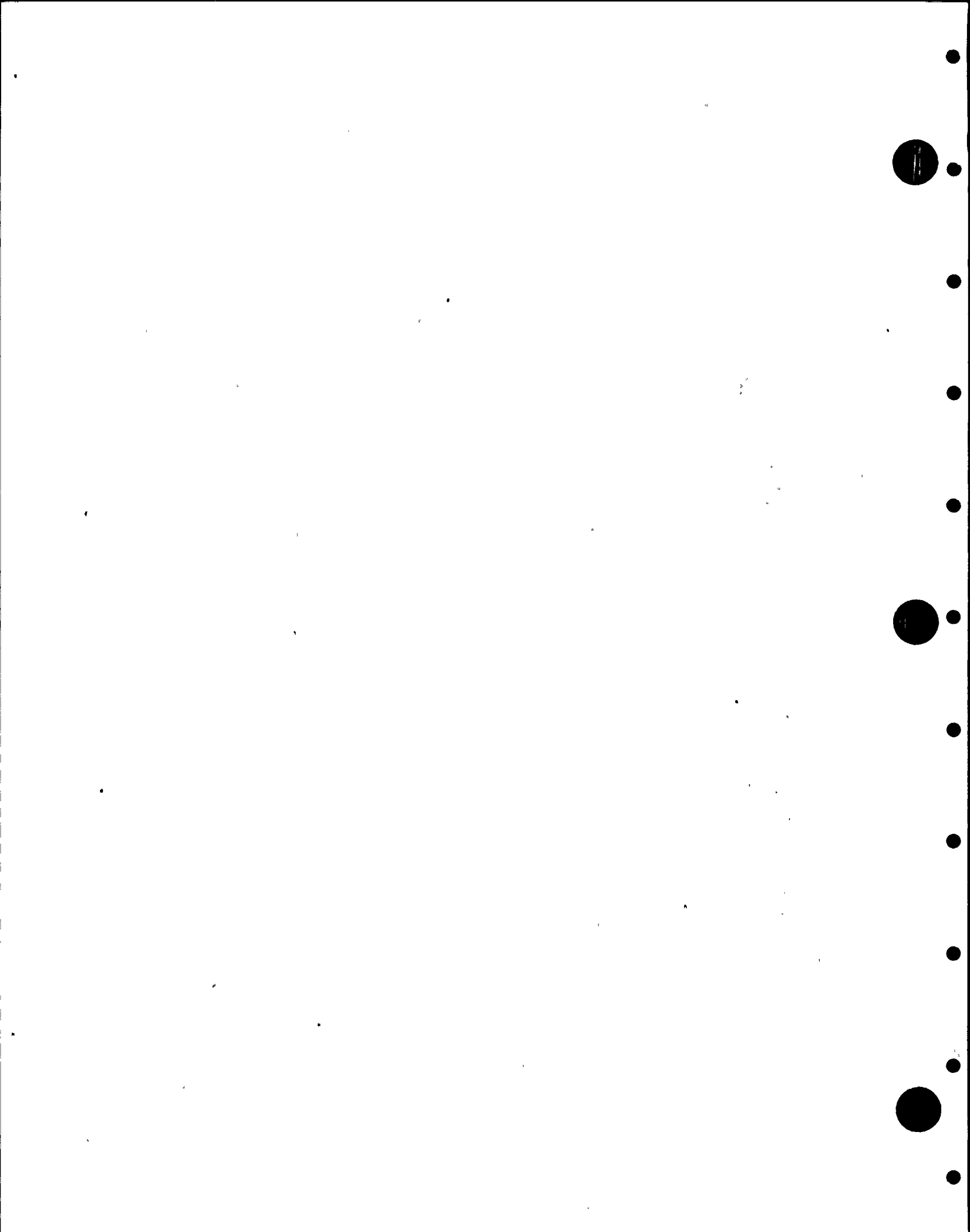


WNP-02
 INTERVAL: 01
 PERIOD: 2
 OUTAGE: R5
 DRAWING NO. FPC-301

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

PAGE 001
 DATE 10/22/90

| IDENT. NO. | EXAM. MTH. | EXAM. DATA SHEET NO. | EXAMINATION RESULTS | | | | REMARKS |
|-------------|------------|----------------------|---------------------|-----------------|----------------------|-------|--|
| | | | NO INDIC. | INSIGNIF INDIC. | SIGNIFICANT GEOMETRY | OTHER | |
| FPC-57 | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |
| FPC-58 | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |
| FPC-919N | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |
| FPC-59 | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |
| FPC-60 | VT3H | 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 ACCESSIBLE FOR EXAMINATION. |
| FPC-61 | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |
| FPC-62 | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |
| FPC-909N | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |
| FPC-908N | VT3H | 1HV-0193 | | ACC | | | CLAMP, WHICH COULD BE ROTATED, WAS TIGHTENED. |
| FPC-908N(W) | VT-3 | 1FPV-010 | ACC | | | | NO RECORDABLE INDICATIONS |
| FPC-41 | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |
| FPC-40 | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |



WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R5
DRAWING NO. FPC-301

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

PAGE 002
DATE 10/22/90

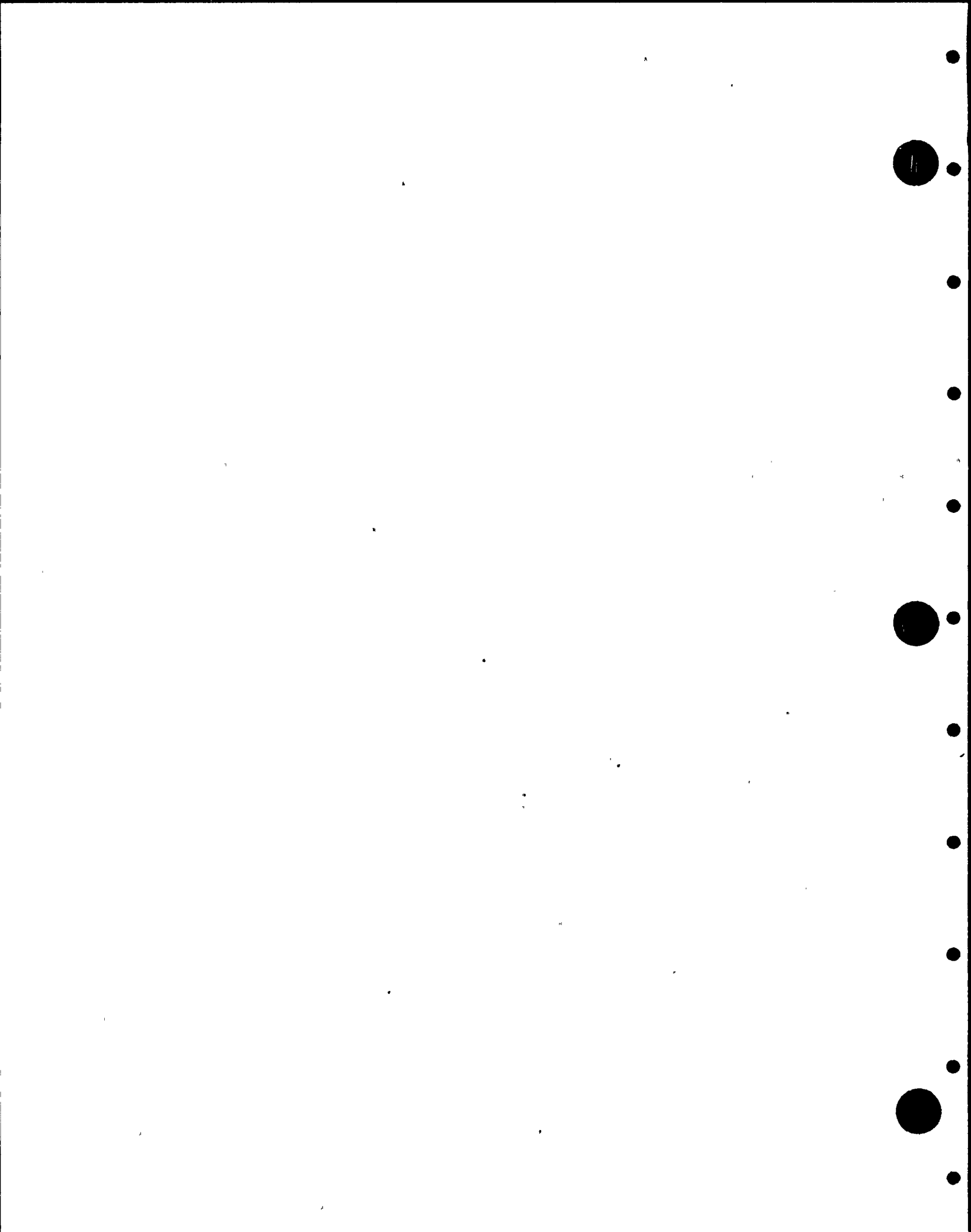
| IDENT. NO. | EXAM. MTH. | EXAM. DATA SHEET NO. | EXAMINATION RESULTS | | | | REMARKS |
|------------|------------|----------------------|---------------------|-----------------|-------------|-------|---------------------------|
| | | | INDIC. | INSIGNIF INDIC. | SIGNIFICANT | OTHER | |
| FPC-39 | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R5
DRAWING NO. FPC-302

WASHINGTON PUBLIC POWER 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

| <u>IDENT..NO.</u> | <u>EXAM.</u> <u>MTH.</u> | <u>EXAM.</u> <u>DATA</u> <u>SHEET</u> <u>NO.</u> | <u>EXAMINATION RESULTS</u> | | | | <u>REMARKS</u> |
|-------------------|-----------------------------|---|----------------------------|-----------------|--------------------|--------------|---------------------------|
| | | | <u>NO</u> | <u>INSIGNIF</u> | <u>SIGNIFICANT</u> | | |
| | | | <u>INDIC.</u> | <u>INDIC.</u> | <u>GEOMETRY</u> | <u>OTHER</u> | |
| FPC-208 | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |

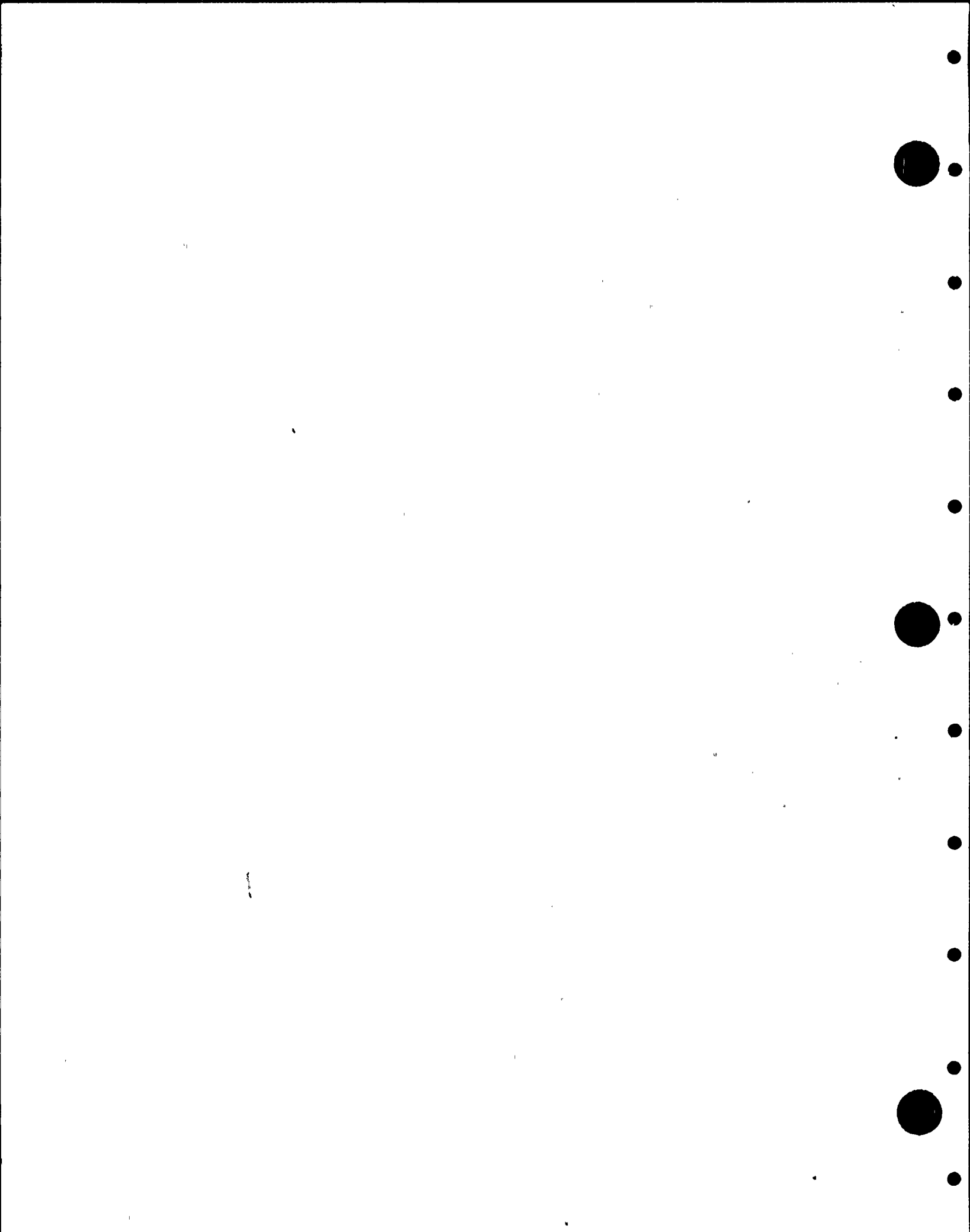


WNP-02
 INTERVAL: 01
 PERIOD: 2
 OUTAGE: R5
 DRAWING NO. FPC-303

WASHINGTON PUBLIC POWER 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

| IDENT. NO. | EXAM. MTH. | EXAM. DATA SHEET NO. | EXAMINATION RESULTS | | | | REMARKS |
|------------|------------|----------------------|---------------------|-----------------|----------------------|-------|---------------------------|
| | | | NO INDIC. | INSIGNIF INDIC. | SIGNIFICANT GEOMETRY | OTHER | |
| FPC-193 | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |
| FPC-207 | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |
| FPC-192 | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |
| FPC-191 | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |
| FPC-188 | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |
| FPC-189 | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |



WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R5
DRAWING NO. FPC-304

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

PAGE 001
DATE 10/22/90

| <u>IDENT. NO.</u> | <u>EXAM. MTH.</u> | <u>EXAM. DATA SHEET NO.</u> | <u>EXAMINATION RESULTS</u> | | | | <u>REMARKS</u> |
|-------------------|-------------------|-----------------------------|----------------------------|------------------------|--------------------|--------------|---------------------------|
| | | | <u>NO INDIC.</u> | <u>INSIGNIF INDIC.</u> | <u>SIGNIFICANT</u> | | |
| | | | | | <u>GEOMETRY</u> | <u>OTHER</u> | |
| FPC-102 | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |
| FPC-103 | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |
| FPC-104 | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |
| FPC-105 | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |
| FPC-106 | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |
| FPC-107 | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |
| FPC-108 | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |
| FPC-109 | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |
| FPC-110 | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |
| FPC-111 | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |
| FPC-113 | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |

WNP-02
 INTERVAL: 01
 PERIOD: 2
 OUTAGE: R5
 DRAWING NO. FPC-305

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

PAGE 001
 DATE 10/22/90

| IDENT. NO. | EXAM. SHEET | EXAM. DATA SHEET NO. | EXAMINATION RESULTS | | | | REMARKS |
|------------|-------------|----------------------|---------------------|-----------------|----------------------|-------|---------------------------|
| | | | NO INDIC. | INSIGNIF INDIC. | SIGNIFICANT GEOMETRY | OTHER | |
| FPC-92 | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |
| FPC-91 | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |
| FPC-77 | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |
| FPC-76 | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |
| FPC-75 | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |
| FPC-74 | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |
| FPC-73 | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |
| FPC-72 | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |
| FPC-71 | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |
| FPC-68 | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |

WNP-02
INTERVAL: 01
PERIOD: 2
OUTAGE: R5
DRAWING NO. MS-304

WASHINGTON PUBLIC POWER 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

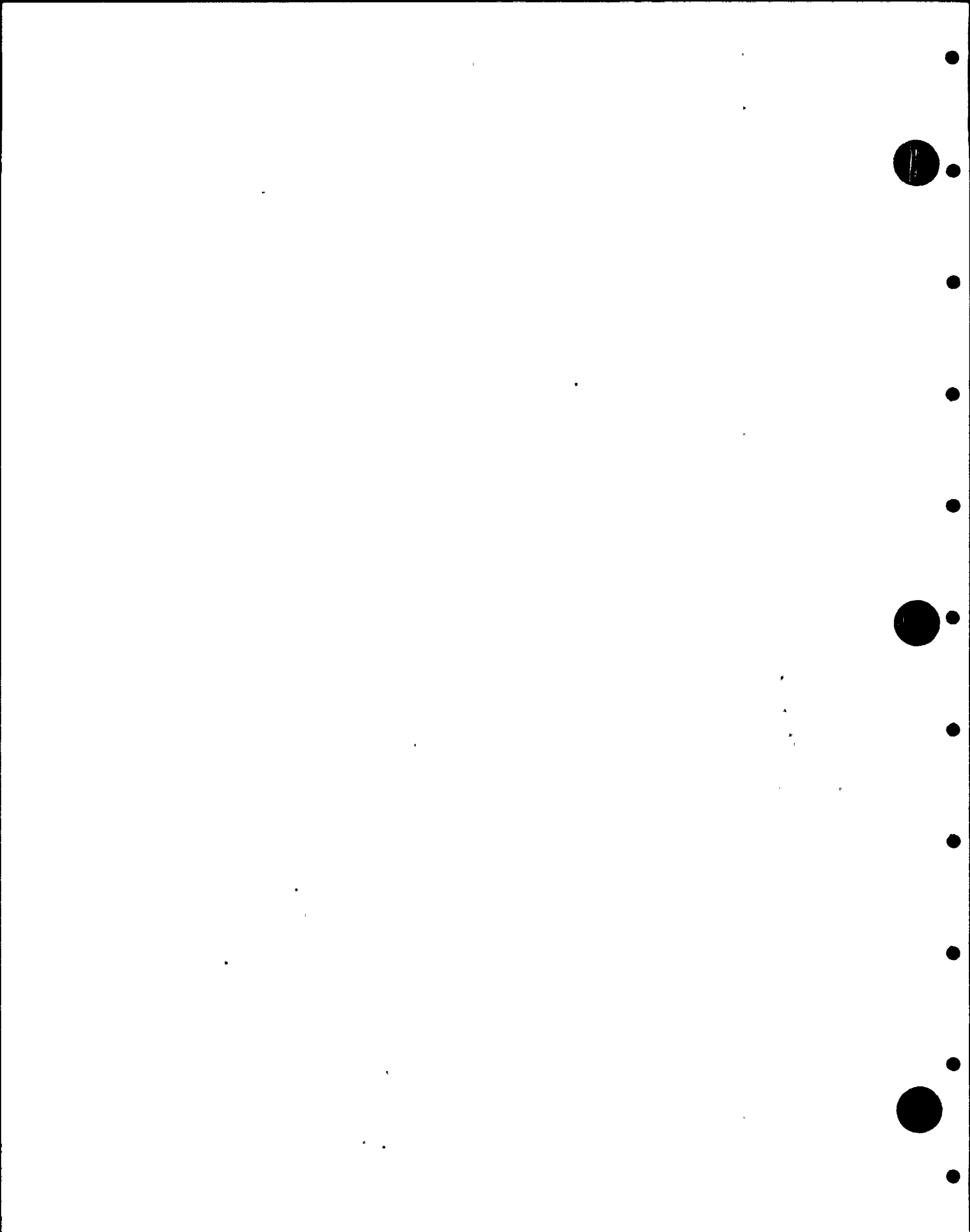
| <u>IDENT..NO.</u> | <u>EXAM.</u> <u>MTH.</u> | <u>EXAM.</u> <u>DATA</u> <u>SHEET</u> <u>NO.</u> | <u>EXAMINATION RESULTS</u> | | | | <u>REMARKS</u> |
|-------------------|-----------------------------|---|----------------------------|-----------------|--------------------|--------------|---|
| | | | <u>NO</u> | <u>INSIGNIF</u> | <u>SIGNIFICANT</u> | | |
| | | | <u>INDIC.</u> | <u>INDIC.</u> | <u>GEOMETRY</u> | <u>OTHER</u> | |
| MSRV-4A-10 | VT3H | 1HV-0210 | ACC | | | | SNUBBER REPLACED WITH STRUT AT R5. SECT. XI PLAN 2-0552. PSI FOR NEW STRUT. |
| MSRV-4A-9 | VT3H | 1HV-0209 | ACC | | | | SNUBBER REPLACED WITH STRUT AT R5. SECT. XI PLAN 2-0552. PSI FOR NEW STRUT. |

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

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

PAGE 001
 DATE 10/22/90

| IDENT. NO. | EXAM. MTH. | EXAM. DATA SHEET NO. | EXAMINATION RESULTS | | | | REMARKS |
|---------------|------------|----------------------|---------------------|-----------------|----------------------|-------|---------------------------|
| | | | NO INDIC. | INSIGNIF INDIC. | SIGNIFICANT GEOMETRY | OTHER | |
| SLC-PB-101(L) | VT-2 | 1VT2-90 | ACC | | | | NO RECORDABLE INDICATIONS |
| SLC-4453-24 | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |
| SLC-4453-25A | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |
| SLC-4453-26B | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |
| SLC-4453-214 | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |
| SLC-4453-215 | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |
| SLC-4453-29 | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |
| SLC-4453-210 | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |
| SLC-4453-211 | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |
| SLC-4453-212 | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |
| SLC-4453-213 | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |
| SLC-4453-31 | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |
| SLC-4453-32 | VT3H | 1HV-0193 | ACC | | | | NO RECORDABLE INDICATIONS |



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

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

PAGE 001
DATE 10/22/90

| <u>IDENT..NO.</u> | <u>EXAM.</u> <u>MTH.</u> | <u>EXAM.</u> <u>DATA</u> <u>SHEET</u> <u>NO.</u> | <u>EXAMINATION RESULTS</u> | | | | <u>REMARKS</u> |
|-------------------|-----------------------------|---|----------------------------|----------------------------------|---|--|---------------------------|
| | | | <u>NO</u> <u>INDIC.</u> | <u>INSIGNIF</u> <u>INDIC.</u> | <u>SIGNIFICANT</u> <u>GEOMETRY OTHER</u> | | |
| 24CSP(1)-5 | VOL | 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 VWP-2

| PLAN or RTR NO. | COMPONENT IDENT. NO. and/or WORK DESCRIPTION | COMPONENT DESCRIPTION | REPAIR/REPLACEMENT REPORTED IN SUMMARY REPORT |
|--------------------|---|--------------------------|--|
| 2-0354 | SLC System Modification | Piping | RF90A Summary Report |
| 2-0354R1 | SLC System Repair | Piping | RF90A Summary Report |
| 2-0449 | PIPE CAP 3/4 MS (55)-5 | Piping | RF90A Summary Report |
| 2-0450 | CLOSURE PLATE FOR RVCU-P-1A, B | Pumps | RF90A Summary Report |
| 2-0451 | MS-2V-1C | Relief Valve | RF90A Summary Report |
| 2-0471 | REPAIR WELD MS-529-13 | Piping | RF90A Summary Report Hydro deferred |
| 2-0475 | CAP DRAIN LINES MS-529-13, MS-530-12 | Piping | RF90A Summary Report Hydro deferred |
| 2-0477 | DRAIN LINE NEAR GSP-V-5, 7 | Piping | RF90A Summary Report |
| 2-0484 | MS-2V-5C REPLACE BOLT | Relief Valve | RF90A Summary Report |
| 2-0489 | REPLACE DISC/NOZZLE IN SPARE MSRV | Relief Valve | RF90A Summary Report |
| 2-0490 | MS-2V-1B DISC/NOZZLE | Relief Valve | RF90A Summary Report |
| 2-0491 | MS-2V-2B DISC/NOZZLE | Relief Valve | RF90A Summary Report |
| 2-0492 | MS-2V-2D DISC/NOZZLE | Relief Valve | RF90A Summary Report |
| 2-0493 | MS-2V-3A DISC/NOZZLE | Relief Valve | RF90A Summary Report |
| 2-0494 | MS-2V-4A DISC/NOZZLE | Relief Valve | RF90A Summary Report |
| 2-0495 | MS-2V-4C DISC/NOZZLE | Relief Valve | RF90A Summary Report |
| 2-0498 | MAIN STEAM DRAIN LINES MS-529-13, MS-530-12 | Piping | RF90A Summary Report |
| 2-0503 | PSR-V-177A/1 and PSR-V-177A/2 | Valves | RF90A Summary Report |
| 2-0506 | Modify drain line RHR-7-161B and 162B | Piping | RF90A Summary Report |
| 2-0509 | RHR-745-1.2 and RHR-FE-12 | Piping | RF90A Summary Report |
| 2-0512 | CIA-V-31B | Valve | RF90A Summary Report |
| 2-0513 | RCIC-V-45 | Valve | RF90A Summary Report |
| 2-0514 | Blind flange in place of CIA-FLX | Piping | RF90A Summary Report |
| 2-0518 | DCV-HX-1A2 | Heat exchanger | RF90A Summary Report |
| 2-0520 | Support for PSR-V-177A/2 | Support | RF90A Summary Report |
| 2-0523-1 | Spacer ring for SW-V-214 | Piping | RF90A Summary Report |
| 2-0523-2 | Spacer ring for SW-V-215 | Piping | RF90A Summary Report |
| 2-0524-1 | Spacer ring for SW-V-216 | Piping | RF90A Summary Report |
| 2-0524-2 | Spacer ring for SW-V-217 | Piping | RF90A Summary Report |
| 2-0525 | Fabricate and replace plug MS-TX-2C | Tank | RF90A Summary Report |
| 2-0526 | Support for PI(1)-45-X62d | Tubing | RF90A Summary Report |
| 2-0529 | PS-VX-265 and support | Valve and support | RF90A Summary Report |
| 2-0530 | CIA-V-60A | Valve | RF90A Summary Report |
| 2-0533 | Replace Cap screws for inst. support | Support | RF90A Summary Report |
| 2-0535 | HPCS-2V-14 spring steps | Relief valve | Work Completed NIS-2 Not Issued |
| 2-0536 | LPCS-2V-31 spring steps | Relief valve | RF90A Summary Report |
| 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-TX-4A | Tank | RF90A Summary Report |
| 2-0542 | Replace bolting for EDR-TX-4B | Tank | RF90A Summary Report |
| 2-0543 | Replace bolting for EDR-TX-9 | Tank | RF90A Summary Report |
| 2-0544 | HPCS-V-6 | Valve | RF90A Summary Report |
| 2-0545 | Replace RCIC-V-39 | Valve | RF90A Summary Report |
| 2-0546 | RCIC-T-3 and RCIC-T-4 | Piping | RF90A Summary Report |
| 2-0547 | Support for RRC-P-1A seal staging piping | Piping | RF90A Summary Report |

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

| PLAN or NBR NO. | COMPONENT IDENT. NO. and/or WORK DESCRIPTION | COMPONENT DESCRIPTION | REPAIR/REPLACEMENT REPORTED IN SUMMARY REPORT |
|--------------------|--|--------------------------|--|
| 2-0548 | Support for RRC-P-1B seal staging piping | Piping | RF90A Summary Report |
| 2-0551 | Lap joint flange for RHR-V-30 | Piping | RF90A Summary Report |
| 2-0552 | Replace Snubbers with rigid strut | Supports | RF90A Summary Report |
| 2-0553 | RHR-RV-30 and RER((-)-1 | Relief valve and Piping | RF90A Summary Report |
| 2-0554 | MS-V-22B | Valve | RF90A Summary Report |
| 2-0555 | MS-V-27C | Valve | RF90A Summary Report |
| 2-0556 | MS-V-28B | Valve | RF90A Summary Report |
| 2-0557 | MS-V-28C | Valve | RF90A Summary Report |
| 2-0562 | Replace MS-RV-1D | Piping | RF90A Summary Report |
| 2-0563 | Replace MS-RV-3D | Piping | RF90A Summary Report |
| 2-0564 | MS-RV-1A disc/nozzle | Relief Valve | RF90A Summary Report |
| 2-0565 | MS-RV-2A disc/nozzle | Relief Valve | RF90A Summary Report |
| 2-0566 | MS-RV-3B disc/nozzle | Relief Valve | RF90A Summary Report |
| 2-0567 | MS-RV-3C disc/nozzle | Relief Valve | RF90A Summary Report |
| 2-0568 | MS-RV-4B disc/nozzle | Relief Valve | RF90A Summary Report |
| 2-0569 | MS-RV-5B disc/nozzle | Relief Valve | RF90A Summary Report |
| 2-0570 | SLC-V-4B | Valve | RF90A Summary Report |
| 2-0573 | Install nipple for FPC-V-603 | Piping | RF90A Summary Report |
| 2-0574 | Replace Mech seal for RRC-P-1A | Pump | RF90A Summary Report |
| 2-0576 | Replace nuts for RHR-V-24A | Valve | RF90A Summary Report |
| 2-0577 | Replace nuts for RHR-V-24B | Valve | RF90A Summary Report |
| 2-0578 | Replace CIA-V-21 | Piping | RF90A Summary Report |
| 2-0579 | Replace CIA-V-31A | Piping | RF90A Summary Report |
| 2-0580 | Replace CIA-V-31B | Piping | RF90A Summary Report |
| 2-0581 | Replace CIA-V-41A | Piping | RF90A Summary Report |
| 2-0582 | Replace CIA-V-41B | Piping | RF90A Summary Report |
| 2-0583 | PSR-V-177A/1 | Valve | RF90A Summary Report |
| 2-0584 | PSR-V-177A/2 | Valve | RF90A Summary Report |
| 2-0585 | PSR-V-177A/3 | Valve | RF90A Summary Report |
| 2-0586 | PSR-V-177A/4 | Valve | RF90A Summary Report |
| 2-0587 | PI-V-1265 | Valve | RF90A Summary Report |
| 2-0590 | HPCS-V-23 | Valve | RF90A Summary Report |
| 2-0591 | Replace Snubbers with rigid struts | Supports | RF90A Summary Report |
| 2-0592 | RHR-HX-2B Seal cooler piping | Heat exchanger | RF90A Summary Report |
| 2-0593 | PI(1)-4S-172f and PI-5FC-172f | Tubing/ valve | RF90A Summary Report |
| 2-0594 | RHR-HX-1B | Heat Exchanger | RF90A Summary Report |
| 2-0595 | Replace stem/disc for HPCS-V-84 | Valve | RF90A Summary Report |
| 2-0596 | RVCU-V-1 leak off conn seal weld | Valve | RF90A Summary Report |
| 2-0597 | RER-V-24B replace leak off conn pipe plug | Valve | RF90A Summary Report |
| 2-0598 | MS-RV-3A disc/nozzle | Relief Valve | Work Completed |
| 2-0599 | Replace studs nuts for flange joint for CIA-FLX-1E | Piping | NIS-2 Not Issued |
| 2-0600 | Replace studs nuts for flange joint for CSP-V-2 | Piping | RF90A Summary Report |
| 2-0604 | Debris screen for I-53 | Piping | RF90A Summary Report |
| 2-0605 | Remove and cap pressure transducer MS-530-11C line | Piping | RF90A Summary Report |
| 2-0606 | Studs and nuts for HPCS-RV-31 | Piping | Work Completed |
| 2-0607 | CRD-V-102 | Valve | NIS-2 Not Issued |
| 2-0608 | MS-V-120A | Valve | RF90A Summary Report |
| 2-0609 | CRD-V-101 | Valve | RF90A Summary Report |



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

| PLAN or RFR NO. | COMPONENT IDENT. NO. and/or WORK DESCRIPTION | COMPONENT DESCRIPTION | REPAIR/REPLACEMENT REPORTED IN SUMMARY REPORT |
|--------------------|---|--------------------------|--|
| 2-0610 | Install blind flange in place of 2HR-2V-1B | Piping | RF90A Summary Report |
| 2-0611 | Install blind flange in place of 2HR-2V-25B | Piping | RF90A Summary Report |
| 2-0612 | Install blind flange in place of 2HR-2V-68B | Piping | RF90A Summary Report |
| 2-0613 | RRC connections to 2RC-V-50A | Piping | RF90A Summary Report |
| 2-0614 | PI(1)-4S-175d & PI-EFC-175d | Tubing/Piping | RF90A Summary Report |
| 2-0615 | Cracked pipe in RCIC line for dPIS 7B 231-X007 | Piping | RF90A Summary Report |
| 2-0622 | Pipe cap for MS-TK-3U | Part | RF90A Summary Report |
| 2-0624 | CIA-FLX-1C | Flex hose | RF90A Summary Report |
| 2-0625 | CSP-V-95 | Valve | RF90A Summary Report |
| 2-0626 | RVCU-V-229B | Valve | RF90A Summary Report |
| 2-0627 | Install blind flange in place of 2VCU-2V-2 | Piping | RF90A Summary Report |
| AS-2789/AS-2790 | Deleted Snubbers | Supports | RF90A Summary Report |
| AS 2790 | Deleted Snubbers | Supports | RF90A Summary Report |
| AS 2893 | RPV | CRD | RF90A Summary Report |
| AS 2905 | RPV | CRD | RF90A Summary Report |
| AS 2907 | RPV | CRD | RF90A Summary Report |
| AS 2908 | RPV | CRD | RF90A Summary Report |
| AS 2910 | RPV | CRD | RF90A Summary Report |
| AS 2913 | RPV | CRD | RF90A Summary Report |
| AS 2914 | RPV | CRD | RF90A Summary Report |
| AS 2917 | RPV | CRD | RF90A Summary Report |
| AS 2919 | RPV | CRD | RF90A Summary Report |
| AS 2920 | RPV | CRD | RF90A Summary Report |
| AS 2924 | RPV | CRD | RF90A Summary Report |
| AS 2925 | RPV | CRD | RF90A Summary Report |
| AS 2926 | RPV | CRD | RF90A Summary Report |
| AS 2930 | RPV | CRD | RF90A Summary Report |
| AS 4972 | Deleted Snubbers | Supports | RF90A Summary Report |
| AS 5339 | RPV | CRD | RF90A Summary Report |
| AT 8898 | Deleted Snubbers | Supports | RF90A Summary Report |
| BDC-55-1042-0A | Changed Equipment Piece Numbers | Valves | RF90A Summary Report |
| BDC-88-0254-1B | Deleted Hanger | Support | RF90A Summary Report |



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: 10/15/90
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: 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 HPCS(1)-4CL1 | WPPSS WPPSS | SLC(2)-4S-P2 HPCS(1)-4CL1 | N/A N/A | N/A N/A | 1982 1983 | Replacement Replacement | Yes, Code Class 1 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, fitting 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



FORM NIS-2 (Back)

8. Tests Conducted: Hydrostatic 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 NFV-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 Quadir Quisb

Signed by [Signature]

Plant Technical Manager

Date 10/15/90

Date 15 OCT 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 4/22/87 to 10/12/90 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.

[Signature]
Inspector's Signature

Commissions 9556 W
National Board, State, and Endorsements

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

1. Manufactured by Nuclear Valve Div., Borg Warner, 7500 Tyrone Ave., Van Nuys, Calif.
(Name and Address of N Certificate Holder)
2. Manufactured for Johnson Controls, Inc. P.O. Box 429, Richland, Washington 99352
(Name and Address of Purchaser or Owner)
3. Location of Installation Hanford #2 Jobsite, Richland, Washington
(Name and Address)
4. Pump or Valve Globe Valve Nominal Inlet Size 1 (inch) Outlet Size 1 (inch)

| (a) Model No. or Type | (b) N Certificate Holder's Serial No. | (c) Canadian Registration No. | (d) Drawing No. | (e) Class | (f) Nat'l. Bd. No. | (g) Year Built |
|-----------------------|---------------------------------------|-------------------------------|-----------------|-----------|--------------------|----------------|
| 1500# | 79113 | N/A | 106DCAL-004 | L | N/A | 1982 |
| (1) | | | | | | |
| (2) | | | | | | |
| (3) | | | | | | |
| (4) | <u>S/N 79113</u> | | | | | |
| (5) | | | | | | |
| (6) | | | | | | |
| (7) | | | | | | |
| (8) | | | | | | |
| (9) | <u>SLC-V-43, S/N 79113</u> | | | | | |
| (10) | <u>Kuldip Singh 9113787</u> | | | | | |

5. The valves are designed to handle a fluid media which includes steam, water condensate, borated water, etc., associated with a PWR and BWR. The temperature pressure rating of the media is stated below.
(Brief description of service for which equipment was designed)

6. Design Conditions 3600 psi 100 °F or Valve Pressure Class N/A (1)
(Pressure) (Temperature)
7. Cold Working Pressure 3600 psi at 100°F.
8. Pressure Retaining Pieces

| Mark No. | Material Spec. No. | Manufacturer | Remarks |
|---------------------|--------------------|-------------------|---------|
| (a) Castings | | | |
| Disc-Code 4W69 | Colmonoy #4 | Rex Precision | |
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| (b) Forgings | | | |
| Body-Code 2E98 | SA182 F316 | Kawaguchi | |
| Bonnet-Code 1X15 | SA182 F316 | Crucible/Ducommun | |
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FOR INFORMATION ONLY

(1) 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

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

BOOK # 0 HB 38

- 1. Manufactured by Nuclear Valve Div., Borg Warner, 7500 Tyrone Ave., Van Nuys, Calif.
(Name and Address of N Certificate Holder)
- 2. Manufactured for Johnson Controls, Inc. P. O. Box 429, Richland, Washington 99352
(Name and Address of Purchaser or Owner)
- 3. Location of Installation Hanford #2 Jobsite, Richland, Washington
(Name and Address)
- 4. Pump or Valve Globe Valve, Nominal Inlet Size 1 (inch) Outlet Size 1 (inch)

| (a) Model No. or Type | (b) N Certificate Holder's Serial No. | (c) Canadian Registration No. | (d) Drawing No. | (e) Class | (f) Nat'l. Bd. No. | (g) Year Built |
|-----------------------|---------------------------------------|-------------------------------|-----------------|-----------|--------------------|----------------|
| (1) 1500# | 79089 thru 79112 | N/A | 106DCA1-004 | 1 | N/A | 1982 |
| (2) | | | | | | |
| (3) | | | | | | |
| (4) | | | | | | |
| (5) | | | | | | |
| (6) | | | | | | |
| (7) | | | | | | |
| (8) | | | | | | |
| (9) | | | | | | |
| (10) | | | | | | |

S/N 79092

✓ Swaps
1/14/87

SLC-V-42 S/N 79092

Rebuild Swaps
9/16/87.

5. The valves are designed to handle a fluid media which includes steam, water condensate, borated water, etc., associated with a PWR and BWR. The temperature pressure rating of the media is stated below.

- 6. Design Conditions 3600 (Pressure) psi 100 (Temperature) °F or Valve Pressure Class 1500 (1)
- 7. Cold Working Pressure 3600 psi at 100°F.
- 8. Pressure Retaining Pieces

| Mark No. | Material Spec. No. | Manufacturer | Remarks |
|-----------------------------|--------------------|---------------|---------|
| (a) Castings | | | |
| Disc-Code 4W69 | Colmonoy #4 | Rex Precision | |
| FOR INFORMATION ONLY | | | |
| (b) Forgings | | | |
| Body-Code 1M55 | SA 182 F316 | Pacific Forge | |
| 2E98 | SA 182 F316 | Kawaguchi | |
| Bonner-Code 1X15 | SA 182 F316 | Crucible | |

(1) 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 Data Report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at top of this form.

| Mark No. | Material Spec. No. | Manufacturer | Remarks |
|----------------------|--------------------|--------------|---------|
| (c) Bolting N/A | | | |
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| (d) Other Parts: N/A | | | |
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9. Hydrostatic test 5100 psi. Disk Differential test pressure 3600 psi.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this pump, or valve, conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components, Section III, Div. 1, Edition 1974.
 Addenda Winter '75, Code Case No. N/A 11/29/92
 Signed Nuclear Valve Div., Borg Warner
(In Certificate Holder)
 Our ASME Certificate of Authorization No. N-1254 to use the N symbol expires 10/27/81
(Date)

CERTIFICATION OF DESIGN

Design information on file at NVD of Borg Warner, 7500 Tyrone Ave., Van Nuys, Ca. 91409
 Stress analysis report (Class 1 only) on file at NVD, Borg Warner Corp., 7500 Tyrone Ave. Van Nuys, CA.
 Design specifications certified by (1) James F. Hagan, Jr.
 PE State Wash. Reg. No. 13579
 Stress analysis certified by (1) David Wurangian
 PE State CA Reg. No. 19547
 (1) 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 California and employed by Lumbermen's Mutual Casualty of Long Grove, Illinois have inspected the pump, or valve, described in this Data Report on 11/30 19 82, 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, Section III.
 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 a loss of any kind arising from or connected with this inspection.
 Date 11/30 19 82
(Inspector) Commissions 1275 C.A.
(Nat'l Bd., State, 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 (Name) Washington Public Power Supply System Date 10/26/89
 Owner (Address) 3000 George Washington Way, Richland, WA Sheet 1 of 1
2. Plant (Name) WPPSS Nuclear Power Plant (WNP) Unit WNP-2
 Plant (Address) Hanford, Benton County, WA C20069
3. Work Performed by (Name) Bechtel Construction, Inc. Repair Organization P.O. No., Job No., etc.
 Work Performed by (Address) PO Box 600, Richland, WA
4. Identification of System Main Steam (MS) System
5. (a) Applicable Construction Code ASME Section III 19.71 Edition, W73 Addenda, None Code Case
 (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements 1980 Edition, Winter 80
 Addenda, N308 Code Case
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)-4D | WPPSS | * | N/A | N/A | 1983 | Replacement | Yes, Class 2 |

7. Description of Work:

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

Notes:



WASHINGTON PUBLIC POWER
SUPPLY SYSTEM

PLAN NO. 2-0449

FORM NIS-2 (Back)

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other None
Test Pressure _____ psig, Test Temp. _____ °F
Component Design Pressure _____ psig, Temp. _____ °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. repair or replacement

Type Code Symbol Stamp _____ Not applicable _____

Certificate Authorization No. _____ Not applicable _____ Expiration Date _____ Not applicable _____

Signed [Signature] Title Plant Technical Manager
Owner or Owner's Designee.

Date 10-25 19 89

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 Lumbermen's Mutual Casualty Co. of Illinois have inspected the components described in this Owner's Report during the period 7/7/88 to 10/26/89 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, 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.

[Signature] Commissions 7447-W
Inspector's Signature National Board, State, and Endorsements

Date 26 OCTOBER 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

| 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-P-1B | HTL | U12A86866 | 8 | N/A | 1987 | Replacement | Yes, Code Class 3 |

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 casing 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 None
Test Pressure: Psig Test Temperature: °F
Component Design Pressure: Psig Temperature: °F

9. Remarks: See attached NPV-1 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 bolted joint was declared inoperable.

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 Quadir Sumb

Signed by [Signature]
Plant Technical Manager

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 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 7/29/88 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.

[Signature]
Inspector's Signature

Commissions 9556 W
National Board, State, and Endorsements

Date 7/5/90

Plan No. 2-0450

Order No. 5/21/80 **OB144**

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

As Required by the Provisions of the ASME Code Rules **HBGBR 215 12424**

1. Manufactured by Nuclear Valve Division of Borg Warner, 7500 Tyrone Avenue, Van Nuys, Ca. Order No. 47713
(Name & Address of Manufacturer)

2. Manufactured for Bovee & Crail/G.E.R.I. P.O. Box 1040, Richland, Washington 99352 Order No. 215-3261
(Name and Address)

3. Owner WPPSS Hanford #2 Job Site

4. Location of Plant Richland, Washington 99352 *Serial Numbers 20976 & 20977.*

5. Pump or Valve Identification Nuclear Valve Div., P/N 76700-6; 1 Inch Gate Valve, CS
Serial Numbers 20974 thru 20977 (4 Valves)
(Brief description of service for which equipment was designed)

(a) Drawing No. 76700 Prepared by Nuclear Valve Division of Borg Warner

(b) National Board No. _____

6. Design Conditions 3600 psi 100 °F
(Pressure) (Temperature)

7. The material, design, construction, and workmanship complies with ASME Code Section III. Class 2

Edition 1971, Addenda Date Winter '73, Case No. _____

| Mark No. | Material Spec. No. | Manufacturer | Remarks |
|-------------------------|--------------------|---------------|---------|
| (a) Castings | | | |
| Gate - Code 1P14 | SA487 CA 6NM | | |
| Casting - 75347 | | Rex Precision | |
| Machined - 75346 | | NV Division | |
| INFORMATION ONLY | | | |
| (b) Forgings | | | |
| Body - Code 1J60 | SA 105 | | |
| Forging - 70453 | | Pacific Forge | |
| Machined - 70476 | | NV Division | |
| Assembly - 75348 | | NV Division | |
| INFORMATION ONLY | | | |
| Bonnet - Code 1M28 | SA 105 | | |
| Forged Stock | | Compton Forge | |
| Machined - 73973-11 | | NV Division | |

* In form of data sketches or drawings may be used provided (1) size is 8 1/2" x 11", (2) information in items, 1, 2, 5a and

FORM NPV-1 (back)

| Mark No. | Material Spec. No. | Manufacturer | Remarks |
|------------------|--------------------|-----------------|---------|
| (c) Bolting | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| (d) Other Parts | | | |
| Stem - Code 1M35 | SA564 Ty. 630 | | |
| Bar Stock | | Jorgensen Steel | |
| Machined - 75323 | | NV Division | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

8. Hydrostatic test 5400 - 5450 psi.

CERTIFICATION OF DESIGN

Design information on file at Nuclear Valve Div. of Borg Warner, 7500 Tyrone Ave., Van Nuys, Ca.
 Stress analysis report on file at N/A
 Design specifications certified by David J. Murphy (1) Prof. Eng. State Wash. Reg. No. 12542
 Stress analysis report certified by N/A (1) Prof. Eng. State _____ Reg. No. _____
 (1) Signature not required. List name only.

We certify that the statements made in this report are correct.
 Nuclear Valve Div.
 Date January 25 19 77 Signed of Borg Warner By R. Palmer
 (Manufacturer)
 Certificate of Authorization No. 1254 expires October 27, 1978

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 of Province of California and employed by Dept. of Bldg. & Safety of City of Los Angeles have inspected the equipment described in this Data Report on January 25 19 77, and state that to the best of my knowledge and belief, the Manufacturer has constructed this equipment in accordance with the applicable Subsections of ASME Code, Section III.
 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 a loss of any kind arising from or connected with this inspection.

INFORMATION ONLY

Date January 25 19 77

FOR INFORMATION ONLY

M. Lucas (Inspector) Commission California (National Board, 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: 6/25/90

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: 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 Other
Test Pressure: 964 Psig Test Temperature: Saturated °F
*Component Design Pressure: 1150 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 Quaid Sump

Signed by [Signature]
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 8/26/88 to 6/19/90 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.

[Signature]
Inspector's Signature

Commissions 9556 W
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) Date: 8/21/90
 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: 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



FORM NIS-2 (Back)

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other
Test Pressure: 982 Psig Test Temperature: 544 °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 Purdip Singh Signed by [Signature]
Plant Technical Manager

Date 8/22/90 Date 8-22-90

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 10-28-88 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.

[Signature] Commissions 9556W
Inspector's Signature National Board, State, and Endorsements

Date 8-22-90



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: 8/21/90

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 MS(1)-4C | WPPSS WPPSS | MS(1)-4B-P3 MS(1)-4C-P3 | N/A N/A | N/A N/A | 1983 1983 | Replacement Replacement | Yes, Code Class 2 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



FORM NIS-2 (Back)

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure 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 *Rudolph Euph*

Signed by *[Signature]*
Plant Technical Manager

Date 8/22/90

Date 8-22-90

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 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.

[Signature]
Inspector's Signature

Commissions 9556 W
National Board, State, and Endorsements

Date 8-22-90



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 Public Power Supply System Date 9/22/89
 Owner (Address) 3000 George Washington Way, Richland, WA Sheet 1 of 1
2. Plant (Name) WPPSS Nuclear Power Plant (WNP) Unit WNP-2
 Plant (Address) Hanford, Benton County, WA WPPSS
 Repair Organization P.O. No., Job No., etc.
3. Work Performed by (Name) WPPSS
 Work Performed by (Address) 3000 George Washington Way, Richland, WA
4. Identification of System Containment Supply Purge (CSP) System
5. (a) Applicable Construction Code ASME Section III 19 71 Edition, W73 Addenda, None Code Case
 (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements 19 80 Edition, Winter 80
 Addenda, N308 Code Case
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(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.

*CSP(1)-1B-P1



FORM NIS-2 (Back)

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other None
Test Pressure _____ psig, Test Temp. _____ °F
Component Design Pressure _____ psig, Temp. _____ °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. repair or replacement

Type Code Symbol Stamp Not applicable

Certificate Authorization No. Not applicable Expiration Date Not applicable

Signed [Signature] Title Plant Technical Manager
Owner or Owner's Designee.

Date 9/19/89 Sept. 22 19 89

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 Lumbermen's Mutual Casualty Co. of Illinois have inspected the components described in this Owner's Report during the period 12-5-88 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, 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.

[Signature] Commissions 9556 W
Inspector's Signature National Board, State, and Endorsements

Date 9/22 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: 6/3/90
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: 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



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: 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 Quentin Smith

Signed by [Signature]
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 1/15/90 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.

[Signature]
Inspector's Signature

Commissions 9556 W
National Board, State, and Endorsements

Date 6/4/90



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 Public Power Supply System Date 10/13/89
 Owner (Address) 3000 George Washington Way, Richland, WA Sheet 1 of 1
 2. Plant (Name) WPPSS Nuclear Power Plant (WNP) Unit WNP-2
 Plant (Address) Hanford, Benton County, WA WPPSS
 3. Work Performed by (Name) WPPSS Repair Organization P.O. No., Job No., etc.
 Work Performed by (Address) 3000 George Washington Way, Richland, WA
 4. Identification of System Spare Main Steam Relief Valve
 5. (a) Applicable Construction Code ASME Section III 19 71 Edition, None Addenda, None Code Case
 (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements 19 80 Edition, Winter 80
 Addenda, N308 Code Case
 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 |
|-------------------------------|----------------------|-------------------------|--------------------|------------|------------|------------------------------------|--|
| Spare Main Steam Relief Valve | CV&G | * | N/A | N/A | 1981 | Replacement | Yes, Class 1 |

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.



WASHINGTON PUBLIC POWER
SUPPLY SYSTEM

PLAN NO. 2-0489

FORM NIS-2 (Back)

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other *
Test Pressure _____ psig, Test Temp. _____ °F
Component Design Pressure _____ psig, Temp. _____ °F

9. Remarks:

*Pressure test will be performed when the spare main steam relief valve is installed in the system.

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.
repair or replacement

Type Code Symbol Stamp Not applicable

Certificate Authorization No. Not applicable Expiration Date Not applicable

Signed [Signature] Title Plant Technical Manager
Owner or Owner's Designee.

Date 10-13 19 89

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 Lumbermen's Mutual Casualty Co. of Illinois have inspected the components described in this Owner's Report during the period 3/13/89 to 10/13/89 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, 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.

[Signature] Commissions 7447W - B.N.I.
Inspector's Signature National Board, State, and Endorsements

Date OCTOBER 13 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: 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)

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other
Test Pressure: 6.66 Psig ..Test 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

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 Paulip Suid

Signed by [Signature]
Plant Technical Manager

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 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 4/24/89 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.

[Signature]
Inspector's Signature

Commissions 9556 W
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

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: 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)

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure 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 Paulip Lips Signed by [Signature]
Plant Technical Manager

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 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 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.

[Signature] 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) 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: 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-2D | Crosby Valve and Gage Co | N63790-00-0052 | N/A | N/A | 1980 | Replacement | Yes, Code Class I |

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 Other

Test Pressure: 6.65 Psig

Test Temperature: 77.8 °F

*Component Design Pressure: 1185 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 Rudolph Rupp

Signed by [Signature]
Plant Technical Manager

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 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 4/20/89 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.

[Signature]
Inspector's Signature

Commissions 9536 W
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)
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-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)

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure 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 Pulraj Buds Signed by [Signature]
Plant Technical Manager

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 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 4/26/89 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.

[Signature] 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)

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-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)

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other

Test Pressure: 6.80 Psig

Test Temperature: 75.3 °F

*Component Design Pressure: 1205 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 Quaid Egan

Signed by [Signature]
Plant Technical Manager

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 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 4/26/89 to 5/30/90 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.

[Signature]
Inspector's Signature

Commissions 9556 W
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) 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: 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 Other

Test Pressure: 6.7 Psig

Test Temperature: 75.3 °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 Quaip Quip

Signed by [Signature]
Plant Technical Manager

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 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 4/25/89 to 5/30/90 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.

[Signature] 5/30/90
Inspector's Signature

Commissions 9556 W
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) Date: 8/21/90
 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: 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 MS(1)-4C | WPPSS WPPSS | MS(1)-4B-P3 MS(1)-4C-P3 | N/A N/A | N/A N/A | 1983 1983 | Replacement Replacement | Yes, Code Class 2 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. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other
Test Pressure: 950 Psig Test Temperature: 530 °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 Dudip Singh Signed by [Signature]
Plant Technical Manager

Date 8/22/90 Date 8-22-90

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 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.

[Signature] Commissions 9556 W
Inspector's Signature National Board, State, and Endorsements

Date 8-22-90



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: 5/28/90
 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: 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 | Yes, Code Class 1 |
| PSR-V-X77A/2 | Target Rock | 4 | N/A | N/A | 1982 | Repair | 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 Other 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 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 Rudolph Supts

Signed by [Signature]
Plant Technical Manager

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 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 5/15/89 to 12/16/89 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.

[Signature]
Inspector's Signature

Commissions 9536 W
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: 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)-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



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: 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 Rudolph Sipes Signed by [Signature]
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 5/15/89 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.

[Signature] Commissions 9550 W
Inspector's Signature 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

1. Owner: Washington Public Power Supply System (WPPSS) Date: 5/28/90
 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: 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



FORM NIS-2 (Back)

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other

Test Pressure: 218 Psig

Test Temperature: 68 °F

Component Design Pressure: 500 Psig

Temperature: 480 °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 Dwain S. Smith

Signed by [Signature]
Plant Technical Manager

Date 5/30/90

Date 5-23-90

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 5/13/89 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.

[Signature]
Inspector's Signature

Commissions 9556 W
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
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: 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

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

| 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 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 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 Paulaip Seib

Signed by [Signature]
Plant Technical Manager

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 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 5/27/90 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.

[Signature]
Inspector's Signature

Commissions 9556 W
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) 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 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



FORM NIS-2 (Back)

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other
Test Pressure: 1005 Psig Test Temperature: 540 °F
Component Design Pressure: 2160 Psig Temperature: 100 °F

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

Prepared by Rudair Rupp

Signed by [Signature]
Plant Technical Manager

Date 6/28/90

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 5/31/89 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.

[Signature]
Inspector's Signature

Commissions 9556 W
National Board, State, and Endorsements

Date 6/27/90

PLAN NO. 2-0513
Buildup Supp
6/22/90

FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES*

As required by the Provision of the ASME Code Rules, Section III, Div. 1

1. (a) Manufactured by Anchor/Darling Valve Co., 701 First St., Williamsport, PA 17701
(Name and address of NPT Certificate Holder)

(b) Manufactured for Washington Public Power Supply System, P.O. Box 968, Richland, WA 99352-0968
(Name and address of N Certificate Holder for completed nuclear component)

2. Identification-Certificate Holder's Serial No. of Part S/N 18 Nat'l Bd. No. N/A

(a) Constructed According to Drawing No. D11903 Drawing Prepared by Anchor/Darling Valve Company

(b) Description of Part Inspected Disc, Heat No. 8099490 SA105

(c) Applicable ASME Code: Section III, Edition 1971, Addenda date Wnt '72, Case No. N/A Class 1

3. Remarks: 4"-900#-Globe
(Brief description of service for which component was designed)
A/DV Shop Order P-F407-2

Note: No Disc Hydro Performed

INFORMATION ONLY

We certify that the statements made 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 Design Specification and Stress Report are not the responsibility of the NPT Certificate Holder for parts. An NPT Certificate 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.)

5/26 1989 Signed Anchor/Darling Valve Co. By R L Stannert
(NPT Certificate Holder)

Certificate of Authorization Expires 4/15/92 Certificate of Authorization No. N1713

CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)

Design information on file at _____

Stress analysis report on file at _____

Design specifications certified by _____ Prof. Eng. State _____ Reg. No. _____

Stress analysis report certified by _____ Prof. Eng. State _____ Reg. No. _____

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 of Pennsylvania and employed by Commercial Union Insurance Company of Boston, Mass. have inspected the part of a pressure vessel described in this Partial Data Report on 5-12-89 thru 5-26-89 1989, and state that to the best of my knowledge and belief, the NPT Certificate Holder 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 this Partial 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 5-26 1989

Charles Young Commissions Pennsylvania 2392
Charles Young National Board, 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
- 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

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

| 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 Nominal Operating Pressure Other
Test Pressure: 105 Psig Test Temperature: 81 °F
Component Design Pressure: 200 Psig Temperature: 340 °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 Quincy Lewis

Signed by [Signature]
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 5/26/89 to 5/23/90 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.

[Signature]
Inspector's Signature

Commissions 9556 W
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
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)

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other 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 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 Dudley Rupp

Signed by [Signature]
Plant Technical Manager

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 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 4/2/89 to 1/29/90 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.

[Signature]
Inspector's Signature

Commissions 9556 W
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) Date: 6/3/90
 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: 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 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 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 Rudolf Guich

Signed by [Signature]
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 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.

[Signature]
Inspector's Signature

Commissions 9556 W
National Board, State, and Endorsements

Date 6/4/90



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
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

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

| 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



FORM NIS-2 (Back)

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure 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 Dwain Swob Signed by [Signature]
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 6/12/89 to 12/14/89 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.

[Signature] Commissions 9556W
Inspector'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) Date: 6/5/90
 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: 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



FORM NIS-2 (Back)

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure 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 Rudip Lwip

Signed by [Signature]
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 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.

[Signature]
Inspector's Signature

Commissions 9556 W
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

- D**
1. Owner (Name) Washington Public Power Supply System Date 10/4/89
 Owner (Address) 3000 George Washington Way, Richland, WA Sheet 1 of 1
2. Plant (Name) WPPSS Nuclear Power Plant (WNP) Unit WNP-2
 Plant (Address) Hanford, Benton County, WA WPPSS
3. Work Performed by (Name) WPPSS Repair Organization P.O. No., Job No., etc.
 Work Performed by (Address) 3000 George Washington Way, Richland, WA
4. Identification of System Main Steam (MS) System
5. (a) Applicable Construction Code ASME Section III 1971 Edition, W73 Addenda, None Code Case
 (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements 19 80 Edition, Winter 80
 Addenda, N308 Code Case
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-TK-2C | Jet Air | N-133 | N/A | N/A | 1980 | Replacement | Yes, Class 2 |

7. Description of Work:

Replaced bottom drain plug for MS-TK-2C.

The replacement work was performed as follows:

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

Votes:



WASHINGTON PUBLIC POWER
SUPPLY SYSTEM

PLAN NO. 2-0525

FORM NIS-2 (Back)

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other
Test Pressure 104 psig, Test Temp. 85 °F
Component Design Pressure 300 psig, Temp. 340 °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. repair or replacement

Type Code Symbol Stamp Not applicable

Certificate Authorization No. Not applicable Expiration Date Not applicable

Signed [Signature] Title Plant Technical Manager
Owner or Owner's Designee.

Date 9/29/89 10-4 19 89

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 Lumbermen's Mutual Casualty Co. of Illinois have inspected the components described in this Owner's Report during the period 6/24/89 to 10/4/89 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, 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.

[Signature] Commissions 7447W - B.N.I
Inspector's Signature National Board, State, and Endorsements

Date OCTOBER 4 19 89



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

- 1. (Name) Washington Public Power Supply System Date 9/22/89
- Owner (Address) 3000 George Washington Way, Richland, WA Sheet 1 of 1
- 2. Plant (Name) WPPSS Nuclear Power Plant (WNP) Unit WNP-2
- Plant (Address) Hanford, Benton County, WA WPPSS
- Work Performed by (Name) WPPSS Repair Organization P.O. No., Job No., etc.
- Work Performed by (Address) 3000 George Washington Way, Richland, WA
- 4. Identification of System Instrument Line
- 5. (a) Applicable Construction Code ASME Section III 19 74 Edition, W75 Addenda, None Code Case
- (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements 19 80 Edition, Winter 80
- Addenda, N308 Code Case
- 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-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:

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

Notes:



FORM NIS-2 (Back)

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other None
Test Pressure _____ psig, Test Temp. _____ °F
Component Design Pressure _____ psig, Temp. _____ °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. repair or replacement

Type Code Symbol Stamp Not applicable

Certificate Authorization No. Not applicable Expiration Date Not applicable

Signed [Signature] Title Plant Technical Manager
Owner or Owner's Designee.

Date Sept. 22 19 89

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 Lumbermen's Mutual Casualty Co. of Illinois have inspected the components 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, 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.

[Signature] Commissions 9556 W
Inspector's Signature National Board, State, and Endorsements

Date 9/22 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)
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. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other
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 Rudolph Seip Signed by [Signature]
Plant Technical Manager

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 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.

[Signature] Commissions 9556W
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 (Name) Washington Public Power Supply System Date 11/16/89
 Owner (Address) 3000 George Washington Way, Richland, WA Sheet 1 of 1
2. Plant (Name) WPPSS Nuclear Power Plant (WNP) Unit WNP-2
 Plant (Address) Hanford, Benton County, WA WPPSS
 Repair Organization P.O. No., Job No., etc.
3. Work Performed by (Name) WPPSS
 Work Performed by (Address) 3000 George Washington Way, Richland, WA
4. Identification of System Containment Instrument Air (CIA)
5. (a) Applicable Construction Code ASME Section III 19 71 Edition, W73 Addenda, None Code Case
 (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements 1980 Edition, W80
 Addenda, N308 Code Case
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-60A | BW | 25900 | N/A | N/A | 1977 | Repair | Yes, Class 2 |

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.

Notes:

BW - Borg Warner



FORM NIS-2 (Back)

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other None
Test Pressure _____ psig, Test Temp. _____ °F
Component Design Pressure _____ psig, Temp. _____ °F

9. Remarks:

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.
repair or replacement

Type Code Symbol Stamp Not applicable

Certificate Authorization No. Not applicable Expiration Date Not applicable

Signed [Signature] Title Plant Technical Manager
Owner or Owner's Designee.

Date 11-15 19 87

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 Lumbermen's Mutual Casualty Co. of Illinois have inspected the components described in this Owner's Report during the period 9/25/89 to 11/10/89 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, 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.

[Signature] Commissions 5970 CC
Inspector's Signature National Board, State, and Endorsements

Date 11/16 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: 5/26/90
 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: 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 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-P21 | JCI | * | N/A | N/A | 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-73 | JCI | * | N/A | N/A | 1983 | Replacement | Yes, Code Class 2 |
| D-220-3500-25.0-CMS-LT-2 | JCI | * | 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

* Same as name of the component



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: 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 Richard Rupp

Signed by [Signature]
Plant Technical Manager

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 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 11/28/89 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.

[Signature]
Inspector's Signature

Commissions 9556 W
National Board, State, and Endorsements

Date 5/31/90



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: 7/13/90
 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: 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 | Loneragan | 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



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: 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 Quadir Supb Signed by [Signature]
Plant Technical Manager

Date 7/13/90 Date 7-13-90

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 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.

[Signature] Commissions 9556 W
Inspector's Signature National Board, State, and Endorsements

Date 7/13/90



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: 6/12/90
 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: 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 | 51 | 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



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 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 Culdrup Swob Signed by [Signature]
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 2/22/90 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.

[Signature] Commissions 9556 LU
Inspector's Signature National Board, State, and Endorsements

Date 6/12/90

R. G. ...
ALHANE

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

Rudip Swig's
6/11/90

- 1. Fabricated by Metal Bellows Div. of Parker Hannifin Corp. Order No. A11559
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 System 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)

- 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 no. - material spec. - nom. pipe size - schedule or thickness - length
straight tube. Adaptor; SA479 Type 304, ^{*L70} one. Nipple; SA479 Type 304, one.
- fittings - flanges, 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 | EPN NO. | SERIAL NO. |
|---------------|-------------------|-------------|
| 001, 002. | <u>RHR-FLX-2A</u> | <u>001</u> |
| | <u>RHR-FLX-2C</u> | <u>002.</u> |

Rudip Swig's
8/23/89

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 Metal Bellows Div. By [Signature]
(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 4-29-89, 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, concerning 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.

Date APRIL 29 1989 (Inspector) [Signature] Commissions CA1414
National Board, State, Province and No.

*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

FORM NPP-1 (back)

9. Description of Field Fabrication

| <u>EPN NO</u> | <u>SERIAL NO</u> |
|---------------|------------------|
| RHR-FLX-2A | 001 |
| RHR-FLX-2C | 002 |

Rudolph Swis
8/23/89.

10. Field Hydrostatic Test _____ psi.

We certify that the field fabrication of the described piping conforms with the requirements of SECTION III of the ASME BOILER AND PRESSURE VESSEL CODE, Class _____, Edition _____, Addenda Date _____ Case No. _____

Date _____, 19____ Signed _____ (Fabricator) By _____ (Representative)

Our Certification of Authorization to use the _____ Symbol Expires _____ 19____
Certificate of Authorization No. _____

CERTIFICATE OF FIELD FABRICATION 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 _____ and employed by _____ of _____ have compared the statements in this Manufacturer's Data Report with the described piping and state that the parts referred to as data items _____, not included in the certificate of shop inspection have been inspected by me and that to the best of my knowledge and belief the manufacturer has constructed this piping in accordance with the applicable section of the ASME CODE SECTION III.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the piping described in this Manufacturer's 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 _____ 19____

Inspector _____ Commissions _____ National Board, 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) Date: 6/3/90
 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: 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-2B | Ingersoll-Rand Co | 0473111 | 47 | 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 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 None
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-2B, 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 Rudolph Sapp

Signed by [Signature]
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 2/22/90 to 5/29/90 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.

[Signature]
Inspector's Signature

Commissions 9556W
National Board, State, and Endorsements

Date 6/4/90

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

- 1. Fabricated by Metal Bellows Div. of Parker Hannifin Corp. Order No. A11559
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 System 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 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)

7. 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 no. - material spec. - nom. pipe size - schedule or thickness - length
straight tube. Adaptors; SA479 Type 304, two. Nipple; SA479 Type 304, one.
- fittings - flanges, etc.)
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.

| | | |
|-------------------|------------------|---|
| <u>EPN NO</u> | <u>SERIAL NO</u> | VERIFIED & ACCEPTED <u>[Signature]</u> |
| <u>RAR-FLX-2B</u> | <u>001</u> | LEVEL <u>III</u> R.I. Inspector Date <u>5-15-89</u> |

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 5-5-89 Signed Metal Bellows Div. By [Signature]
(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 5-5-89, 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, concerning 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.

Date MAY 5 1989
[Signature] Commissions CA1414
(Inspector) National Board, State, Province and No.

9. Description of Field Fabrication

EPN NO.

RHR-FLX-2B

SERIAL NO.

001

Kuldip Singh

8/23/89

10. Field Hydrostatic Test _____ psi.

We certify that the field fabrication of the described piping conforms with the requirements of SECTION III of the ASME BOILER PRESSURE VESSEL CODE, Class _____, Edition _____, Addenda Date _____ Case No. _____

Date _____, 19____ Signed _____ By _____
(Fabricator) (Representative)

Our Certification of Authorization to use the _____ Symbol Expires _____ 19____
Certificate of Authorization No. _____

CERTIFICATE OF FIELD FABRICATION 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 _____ and employed by _____ of _____ have compared the statements in this Manufacturer's Data Report with the described piping and state that the parts referred to as data items _____, not included in the certificate of shop inspection have been inspected by me and that to the best of my knowledge and belief the manufacturer has constructed this piping in accordance with the applicable section of the ASME CODE SECTION III.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the piping described in this Manufacturer's 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 _____ 19____

Inspector Commission _____ National Board, 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) Date: 6/3/90
 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: 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 | Ingersoll-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 None
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 Rudolph Szyb

Signed by [Signature]
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 2/22/90 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.

[Signature]
Inspector's Signature

Commissions 9556 W
National Board, State, and Endorsements

Date 6/4/90

Q. Paul
W. T. Hall Ave

PLAN No. 2-0539

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

- 1. Fabricated by Metal Bellows Div. of Parker Hannifin Corp. Order No. A11559
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 System 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)

- 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 no. - material spec. - nom. pipe size - schedule or thickness - length
straight tube. Adaptor; SA479 Type 304, ^{*FWO} Nipple; SA479 Type 304, one.
- fittings - flanges, 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-2A

001

RHR-FLX-2C

002

Culdrup Engr's

8/23/89

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 Metal Bellows Div. by *J. Paul W. ...*
(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 4-29-89, 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, concerning 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.

Date APRIL 29 19 89
W. T. Hall
(Inspector)

Commissions CA1414
National Board, State, Province and No.

FORM NPP-1 (back)

9. Description of Field Fabrication

EPN NO

SERIAL NO

RHR-FLX-2A

001

RHR-FLX-2C

002

Rudip Swis
8/23/89.

10. Field Hydrostatic Test _____ psi.

We certify that the field fabrication of the described piping conforms with the requirements of SECTION III of the ASME BOILER AND PRESSURE VESSEL CODE, Class _____, Edition _____, Addenda Date _____ Case No. _____

Date _____, 19____ Signed _____ By _____
(Fabricator) (Representative)

Our Certification of Authorization to use the _____ Symbol Expires _____ 19____
Certificate of Authorization No. _____

CERTIFICATE OF FIELD FABRICATION 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 _____ and employed by _____ of _____ have compared the statements in this Manufacturer's Data Report with the described piping and state that the parts referred to as data items _____, not included in the certificate of shop inspection have been inspected by me and that to the best of my knowledge and belief the manufacturer has constructed this piping in accordance with the applicable section of the ASME CODE SECTION III.

By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the piping described in this Manufacturer's 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 _____ 19____

Inspector Commission _____ National Board, 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
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

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

| 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 Nominal Operating Pressure Other
Test Pressure: 390 Psig Test Temperature: 78 °F
Component Design Pressure: 300 Psig Temperature: 340 °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 Quair Sup's

Signed by [Signature]
Plant Technical Manager

Date 6/4/90

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 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.

[Signature]
Inspector's Signature

Commissions 9556 W
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) Date: 5/26/90
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: 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-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
20" Roof man hole nozzle "N"
20" Roof man hole nozzle "M"



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: 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 Rudolph Scrib

Signed by [Signature]
Plant Technical Manager

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 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 2/16/90 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.

[Signature]
Inspector's Signature

Commissions 9556 W
National Board, State, and Endorsements

Date 5/31/90



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: 5/26/90
 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: 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
 20" Roof man hole nozzle "N"
 20" Roof man hole nozzle "M"



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: 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 Rudolph S. [Signature] Signed by [Signature]
Plant Technical Manager

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 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 2/16/90 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.

[Signature] Commissions 9556 W
Inspector's Signature National Board, State, and Endorsements

Date 5/31/90



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
- 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

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

| 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"



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: 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 Rudolph Supp Signed by [Signature]
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 2/16/90 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.

[Signature] Commissions 9556 W
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) Date: 9/18/90
 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: 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



FORM NIS-2 (Back)

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure 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 Supt

Signed by [Signature]
Plant Technical Manager

Date 9/18/90

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 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.

[Signature]
Inspector's Signature

Commissions 9556 W
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)
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)
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: 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 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(13)-4C12 | 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 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 Rudolph E. Syp

Signed by [Signature]
Plant Technical Manager

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 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.

[Signature]
Inspector's Signature

Commissions 9556 W
National Board, State, and Endorsements

Date 5/30/90

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

1. Manufactured by Nuclear Valve Div., Borg Warner, 7500 Tyrone Ave., Van Nuys, Calif.
(Name and Address of N Certificate Holder)
2. Manufactured for Boyer & Crail/G.E.R.I., P.O. Box 1040, Richland, Washington 99352
(Name and Address of Purchaser or Owner)
3. Location of Installation Richland, Washington WPPSS Hanford #2 Job Site
(Name and Address)
4. Pump or Valve Gate Valve Nominal Inlet Size 1 Outlet Size 1
(inch) (inch)

| | (a) Model No. or Type | (b) N Certificate Holder's Serial No. | (c) Canadian Registration No. | (d) Drawing No. | (e) Class | (f) Nat'l. Bd. No. | (g) Year Built |
|-----|-----------------------|---------------------------------------|-------------------------------|-----------------|-----------|--------------------|----------------|
| | (1) | 1500# | 16890, 16905 16906 | N/A | 76700 | 2 | N/A |
| (2) | PLAN NO. 2-0545 | | | | | | |
| (3) | REPLACEMENT VALVE | | | | | | |
| (4) | RCIC-V-39, S/N 16890 | | | | | | |
| (5) | Outair Supp | | | | | | |
| (6) | 3/20/90 | | | | | | |

5. The valves are designed to handle a fluid media which includes steam, water condensate, hot/cold water, etc., associated with a PWR and BWR. The temperature pressure rating of the media is stated below.
(Brief description of service for which equipment was designed)

6. Design Conditions 3600 psi 100 °F or Valve Pressure Class N/A (1)
(Pressure) (Temperature)
7. Cold Working Pressure 3600 psi at 100°F.
8. Pressure Retaining Pieces

| Mark No. | Material Spec. No. | Manufacturer | Remarks |
|--|--------------------|---------------|------------------------|
| (a) Castings | | | |
| Gate-Code 1P14 | A296 GR CAGNM | | part 1 Spec. was SA487 |
| Casting-75347 | | Rex Precision | |
| Machined-75346 | | NV Division | |
| <div style="border: 1px solid black; padding: 5px; display: inline-block;"> REVIEWED FEB 23 1982 TECHNICAL QUALITY CONTROL BY: <i>[Signature]</i> </div> | | | |
| (b) Forgings | | | |
| Body-Code 1J60 | SA 105 | | |
| Forging-70453 | | Pacific Forge | |
| Machined-70476 | | NV Division | |
| Assembly-75348 | | NV Division | |
| Bonnet-Code 1M28 | SA 105 | | |
| Forged Stock | | Compton Forge | |
| Machined-73973-1 | | NV Division | |

(1) 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 Data Report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at top of this form.

1500 2.12

| Mark No. | Material Spec. No. | Manufacturer | Remarks |
|-----------------|--------------------|-----------------|---|
| (c) Bolting | | | <div style="border: 1px solid black; padding: 2px; display: inline-block;"> FEB 23 1982 SECURE QUALITY CONTROL BT. </div> |
| (d) Cover Parts | | | |
| Stem Code 1M351 | SA564 Type 630 | | |
| Bar Stock | | Jorgenson Steel | |
| Machined 75-231 | | NV Division | |

8. Hydrostatic test 5400 psi. Disc Differential test pressure 3600 psi.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this pump, or valve, conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components, Section III, Div. 1, Edition 1971, Addenda Winter 1973, Code Case No. _____, Date December 18, 1981.

Signed Nuclear Valve Div., Borg Warner by [Signature]
(N Certificate holder)

Our ASME Certificate of Authorization No. N-1254 to use the III symbol expires 10/27/85.

CERTIFICATION OF DESIGN

Design information on file at NVD of Borg Warner, 7500 Tyrone Ave., Van Nuys, Ca. 91409
 Stress analysis report (Class 1 only) on file at _____

Design specifications certified by (1) David J. Murphy
 PE State Washington Reg. No. 12542

Stress analysis certified by (1) _____
 PE State _____ Reg. No. _____

(1) 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 California and employed by Lumbermen's Mutual Casualty of Long Grove, Illinois have inspected the pump, or valve, described in this Data Report on December 18 19 81, 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, Section III.

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 a loss of any kind arising from or connected with this inspection.

Date December 18 19 81 Commissions A-75 @ A.
(Inspector) (Natl Bd., State, Prov. and Mex.)

212871509



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
 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: 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

| 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(13)-4C12 RCIC(50)-1 | WPPSS WPPSS | RCIC(13)-4C12-P1 RCIC(50)-1-P1 | N/A N/A | N/A N/A | 1983 1983 | Replacement Replacement | Yes, Code Class 2 Yes, Code 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



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 NPV-1 Code Data Report for the following new replacement valves

| EPN No | Serial No |
|------------|-----------|
| RCIC-V-205 | 16928 |
| RCIC-V-206 | 16909 |
| RCIC-V-207 | 16913 |

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 Rudip Singh

Signed by [Signature]
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 3/2/90 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.

[Signature]
Inspector's Signature

Commissions 9556 W
National Board, State, and Endorsements

Date 6/4/90

FORM NPV-1 MANUFACTURER'S DATA REPORT FOR NUCLEAR PUMPS OR VALVES*

As Required by the Provisions of the ASME Code Rules

0B257

16913

1. Manufactured by Nuclear Valve Division
 of Borg Warner, 7500 Tyrone Avenue, Van Nuys, Ca. Order No. 47713
(Name & Address of Manufacturer)

2. Manufactured for Bovee & Crail/G.E.R.f.
 P.O. Box 1040, Richland, Washington 99352 Order No. 215-3261Q
(Name and Address)

3. Owner WPPSS Hanford #2 Job Site

4. Location of Plant Richland, Washington 99352

5. Pump or Valve Identification Nuclear Valve Div., P/X 76700 - 1 Inch Gate Valve, C.S.
Serial Numbers 18913, 16916 Thru 16920 (6 Valves)
(Brief description of service for which equipment was designed)

(a) Drawing No. 76700 Prepared by Nuclear Valve Division of Borg Warner

(b) National Board No. _____

6. Design Conditions 3600 psi 100 °F
(Pressure) (Temperature)

7. The material, design, construction, and workmanship complies with ASME Code Section III, Class 2

Edition 1971, Addenda Date Winter '73, Case No. _____

RCIC-V-205, S/N 16913
Ludiv Supp
6/1/90

| Mark No. | Material Spec. No. | Manufacturer | Remarks |
|--|--------------------|---------------|---------|
| (a) Castings | | | |
| Gate - Code 1P14; 1P38 | SA487 CA6NM | | |
| Casting - 75347 | | Rex Precision | |
| Machined - 75346 | | NV Division | |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;"> D I S V U E W I E NOV 02 1981 QUALITY CONTROL ST: 75 </div> | | | |
| (b) Forgings | | | |
| Body - Code 1T60 | SA105 | | |
| Forging - 70453 | | Pacific Forge | |
| Machined - 70476 | | NV Division | |
| Assembly - 75348 | | NV Division | |
| Bonnet - Code 1M28 | SA105 | | |
| Forged Stock | | Compton Forge | |
| Machined - 73973-11 | | NV Division | |

*Supplemental sheets in form of lists, sketches or drawings may be used provided (1) also is 8 1/2" x 11", (2) information in Items 1, 2, 5a and 6 on this data report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at top of this form.

Serial No. 16913
 Zuldip Singh
 2/14/90

| Mark No. | Material Spec. No. | Manufacturer | Remarks |
|-----------------|--------------------|--------------|---------|
| (c) Bolting | | | |
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| (d) Other Parts | | | |
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1 2 8 9 0 7 4 3

2. Hydrostatic test 5400 To 5450 psi.

CERTIFICATION OF DESIGN

Design information on file at Nuclear Valve Div. of Borg Warner, 7500 Tyrone Ave., Van Nuys, Ca.
 Stress analysis report on file at N/A
 Design specifications certified by David J. Murphy (1) Prof. Eng. State Wash. Reg. No. 12542
 Stress analysis report certified by N/A (1) Prof. Eng. State Reg. No.
 (1) Signature not required. List name only.

We certify that the statements made in this report are correct.
Nuclear Valve Div.
 Date March 4 1977 Signed of Borg Warner By Carol M. Parker
 (Manufacturer)
 Certificate of Authorization No. 1254 expires October 27, 1978

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 of Province of California and employed by Dept. of Bldg. & Safety of City of Los Angeles have inspected the equipment described in this Data Report on March 4 1977, and state that to the best of my knowledge and belief, the Manufacturer has constructed this equipment in accordance with the applicable Subsections of ASME Code, Section III.
 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 a loss of any kind arising from or connected with this inspection.

Date March 4 1977
(Inspector) (Commission # California)
 (National Board, State, Province and No.)

16928

PLAN No. 2-0546

UD 206

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

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

1. Manufactured by Nuclear Valve Division of Borg Warner, 7500 Tyrone Avenue, Van Nuys, Ca. Order No. 47713
(Name & Address of Manufacturer)
2. Manufactured for Bovee & Crail/G.E.R.I. P.O. Box 1040, Richland, Washington 99352 Order No. 215-3261Q
(Name and Address)
3. Owner WPPSS Hanford #2 Job Site
4. Location of Plant Richland, Washington 99352
5. Pump or Valve Identification Nuclear Valve Div., P/N 76700, 1 Inch Gate Valve, CS
Serial Numbers 16921 thru 16928, 16875 and 16877 thru 16880
(Brief description of service for which equipment was designed) (13 Valves)

(a) Drawing No. 76700 Prepared by Nuclear Valve Division of Borg Warner

(b) National Board No. _____

*2010-V-206, SN 16928
Ludwig Eup's
6/1/90*

6. Design Conditions 3600 psi 100 °F
(Pressure) (Temperature)

7. The material, design, construction, and workmanship complies with ASME Code Section III, Class 2
Edition 1971 Addenda Date Winter '73 Case No. _____

| Mark No. | Material Spec. No. | Manufacturer | Remarks |
|--------------------------|--------------------|---------------|-------------------------|
| (a) Castings | | | |
| Gate - Code 1P14, 1P38 | SA487 CA6NM | | |
| Casting - 75347 | | Rex Precision | |
| Machined - 75346 | | NV Division | |
| | | | D E V D I R W I S D |
| | | | BECHTEL QUALITY CONTROL |
| | | | BY: <i>[Signature]</i> |
| (b) Forgings | | | |
| Body - Code 1J60 | SA 105 | | |
| Forging - 70453 | | Pacific Forge | |
| Machined - 70476 | | NV Division | |
| Assembly - 75348 | | NV Division | |
| Bonnet - Code 1M28, 1M53 | SA 105 | | |
| Forged Stock | | Compton Forge | |
| Machined - 73973 -11 | | NV Division | |
| Assembly - 73973 | | NV Division | |

*Supplemental sheets in form of lists, sketches or drawings may be used provided (1) also is 8 1/2" x 11", (2) information in items 1, 2, 3a and 3b on this data report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at top of this form.

2 1 0 3 0



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: 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



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: 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 Rudolph Supb

Signed by [Signature]
Plant Technical Manager

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 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 2/22/90 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.

[Signature]
Inspector's Signature

Commissions 9556 (w)
National Board, State, and Endorsements

Date 5/31/90



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: 5/26/90
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: 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 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 Ruairi Smith

Signed by [Signature]
Plant Technical Manager

Date 5/20/90

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 2/22/90 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.

[Signature]
Inspector's Signature

Commissions 9556 W
National Board, State, and Endorsements

Date 5/31/90



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: 5/26/90
 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: 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 flange, lap joint stub and coupling
 - 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 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 Quarip Supb

Signed by [Signature]
Plant Technical Manager

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 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.

[Signature]
Inspector's Signature

Commissions 9556 W
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) Date: 6/1/90
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: 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 MS(18)-2-4 | WPPSS WPPSS | B(22)-G001A-P1 MS(18)-2-4-P1 | N/A N/A | N/A N/A | 1983 1983 | Replacement Replacement | Yes, Code Class NF(1) 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)

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 NF-2 Code Data Reports for the following

| Support No | Serial No | Support No | Serial No |
|------------|----------------|------------|---------------|
| MS-256 | NA-2295-026-16 | MSRV-4A-9 | NA-2295-027-4 |
| MS-SA-1 | NA-2765-008 | MSRV-4A-10 | NA-2295-027-5 |
| MS-SA-2 | NA-2765-009 | | |
| MS-SA-4 | NA-2765-006 | | |
| MS-SA-7 | NA-2765-007 | | |

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 Rudolph E. Smith

Signed by [Signature]
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 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.

[Signature]
Inspector's Signature

Commissions 9556W
National Board, State, and Endorsements

Date 6/1/90

1 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
 Lulay Sup.
 5/31/90

1. Manufactured by NPS INDUSTRIES, INC., 10420 METRIC BOULEVARD, AUSTIN, TX 78758
(Name and address of NPT Certificate Holder)
2. Manufactured for WASHINGTON PUBLIC POWER SUPPLY SYSTEM, P.O. BOX 968, RICHLAND, WA 99352
(Name and address of purchaser or owner)
3. Location of Installation WNP-2 OPS WHS-COMPLEX, WHS#1 N. PWR. PLANT LOOP, RICHLAND, WA 99352

| (a) Part Serial No. | (b) Canadian Registration No. | (c) Part Drawing No. | (d) Description of Part | (e) Class | (f) National Board No. | (g) Year Built |
|------------------------------|--|-------------------------------|-------------------------------|--------------|---------------------------------|----------------------|
| (1) * | N/A | S-1227 | SWAY STRUT | I | N/A | 1990 |
| (2) | | REV.0 | ADJUSTABLE | | | |
| (3) | | | SSR-35 TYPE A | | | |
| (4) | | | | | | |
| (5) | | | | | | |
| (6) | *NA-2765-006 | | | | | |
| (7) | | | | | | |
| (8) | | | | | | |
| (9) | | | | | | |
| (10) | | | | | | |

CERTIFICATE OF COMPLIANCE

We certify 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, Addenda WINTER 1973, Code Case no. N247.
(Date)

Date APRIL 20 19 90. Signed NPS INDUSTRIES, INC. by SANDY REYNOLDS
(NPT Certificate Holder)

Our ASME Certificate of Authorization No. N-2689 to use the NPT Symbol expires JULY 12, 1991
(NPT) (Date)

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 TEXAS and employed by COMMERCIAL UNION of BOSTON, MASSACHUSETTS have inspected the parts for the component supports described in this Data Report on 4-20, 19 90, and state that to the best of my knowledge and belief the NPT Certificate Holder has constructed these component support parts in accordance with the ASME Code for Nuclear Power Plant Components.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the component supports 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 4-20-90

Signed [Signature] Commissions T-1053
(Nat'l Board, State, Province, and No.)

* Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8 1/2 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 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
 Welding Shop
 5/31/90

Manufactured by NPS INDUSTRIES, INC., 10420 METRIC BOULEVARD, AUSTIN, TX 78758
(Name and address of NPT Certificate Holder)

2. Manufactured for WASHINGTON PUBLIC POWER SUPPLY SYSTEM, P.O. BOX 968, RICHLAND, WA 99352
(Name and address of purchaser or owner)

3. Location of Installation WNP-2 OPS WHS COMPLEX, WHS#1 N. PWR. PLANT-LOOP, RICHLAND, WA 99352

| (a) Part Serial No. | (b) Canadian Registration No. | (c) Part Drawing No. | (d) Description of Part | (e) Class | (f) National Board No. | (g) Year Built |
|------------------------------|--|-------------------------------|-------------------------------|--------------|---------------------------------|----------------------|
| (1) * | N/A | S-1227 | SWAY STRUT | 1 | N/A | 1990 |
| (2) | | REV. 0 | ADJUSTABLE | | | |
| (3) | | | SSR-35 TYPE A | | | |
| (4) | | | | | | |
| (5) | | | | | | |
| (6) | *NA-2765-007 | | | | | |
| (7) | | | | | | |
| (8) | | | | | | |
| (9) | | | | | | |
| (10) | | | | | | |

CERTIFICATE OF COMPLIANCE

We certify 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, Addenda WINTER 1973, Code Case no. N247.
(Date)

Date APRIL 20 19 90. Signed NPS INDUSTRIES, INC. by SANDY REYNOLDS
(NPT Certificate Holder)

Our ASME Certificate of Authorization No. N-2689 to use the NPT Symbol expires JULY 12, 1991
(Date)

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 TEXAS and employed by COMMERCIAL UNION of BOSTON, MASSACHUSETTS have inspected the parts for the component supports described in this Data Report on 4-20 19 90 and state that to the best of my knowledge and belief the NPT Certificate Holder has constructed these component support parts in accordance with the ASME Code for Nuclear Power Plant Components.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the component supports 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 4-20-90

Signed [Signature] Commissions 1053
(Nat'l Board, State, Province, and No.)

* Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8 1/2 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.

7



FORM NP-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
 Ludwig Sixt
 7/31/90

1. Manufactured by NPS INDUSTRIES, INC., 10420 METRIC BOULEVARD, AUSTIN, TX 78758
(Name and address of NPT Certificate Holder)
2. Manufactured for WASHINGTON PUBLIC POWER SUPPLY SYSTEM, P.O. BOX 968, RICHLAND, WA 99352
(Name and address of purchaser or owner)
3. Location of Installation WNP-2 OPS WHS COMPLEX, WHS#1 N. PWR. PLANT LOOP, RICHLAND, WA 99352

| (a) Part Serial No. | (b) Canadian Registration No. | (c) Part Drawing No. | (d) Description of Part | (e) Class | (f) National Board No. | (g) Year Built |
|------------------------------|--|-------------------------------|-------------------------------|--------------|---------------------------------|----------------------|
| (1) * | N/A | SPN-042 | SWAY STRUT | 1 | N/A | 1990 |
| (2) | | REV.0 | ADJUSTABLE | | | |
| (3) | | | SSR-100 TYPE A | | | |
| (4) | | | | | | |
| (5) | | | | | | |
| (6) | *NA-2765-008 | | | | | |
| (7) | | | | | | |
| (8) | | | | | | |
| (9) | | | | | | |
| (10) | | | | | | |

CERTIFICATE OF COMPLIANCE

We certify 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, Addenda WINTER 1973.
 Code Case no. N247 (Date)

Date APRIL 19 19 90. Signed NPS INDUSTRIES, INC. by SANDY REYNOLDS
(NPT Certificate Holder)

Our ASME Certificate of Authorization No. N-2689 to use the NPT Symbol expires JULY 12, 1991
(NPT) (Date)

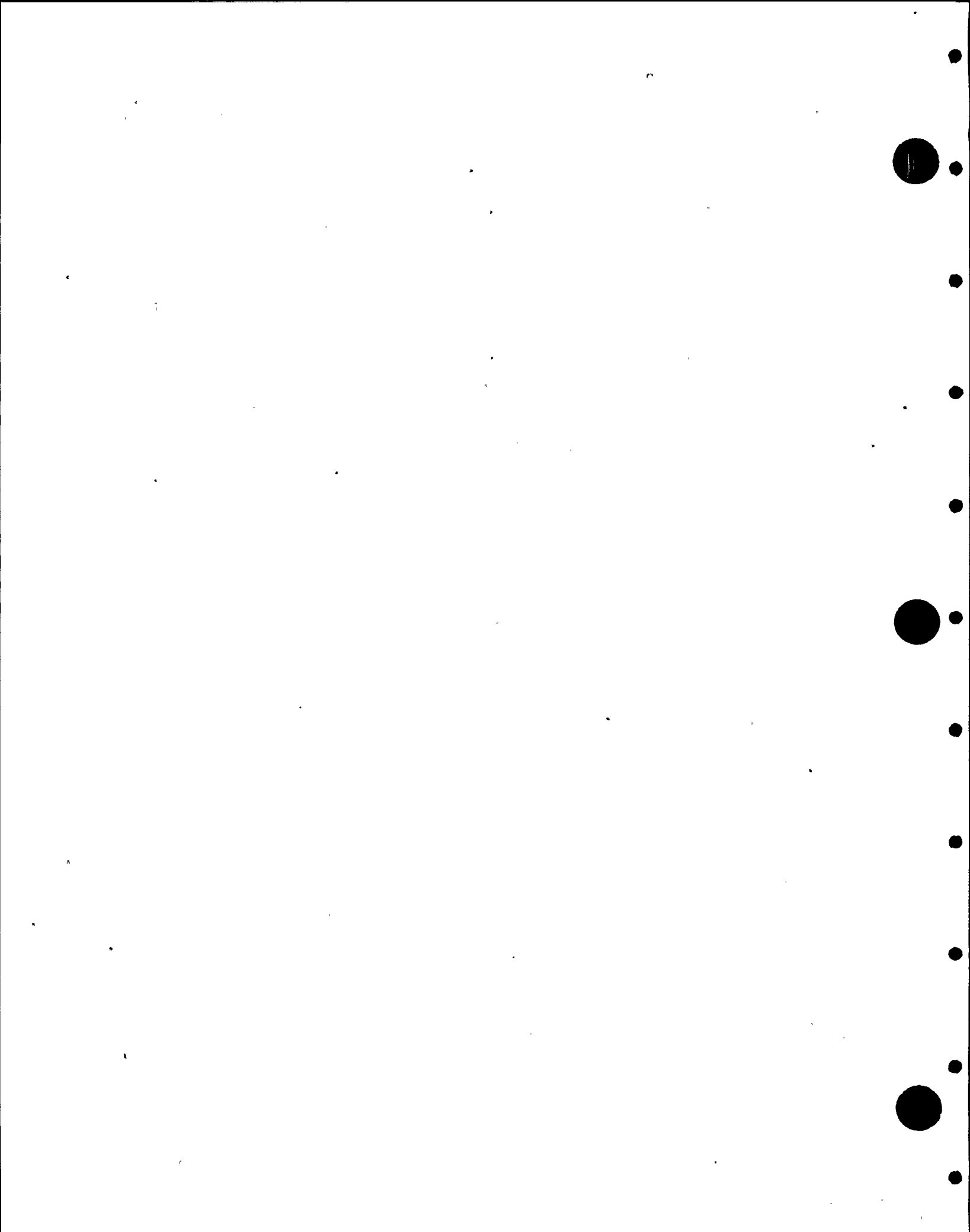
CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of TEXAS and employed by COMMERCIAL UNION of BOSTON, MASSACHUSETTS
4-19 19 90 have inspected the parts for the component supports described in this Data Report on
 and state that to the best of my knowledge and belief the NPT Certificate Holder has constructed these
 component support parts in accordance with the ASME Code for Nuclear Power Plant Components.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the component supports 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 4-19-90
 Signed [Signature] Commissions TX 1097
(Nat'l Board, State, Province, and No.)

* Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8 1/2 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 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
 Culley City
 5/31/90

1. Manufactured by NPS INDUSTRIES, INC., 10420 METRIC BOULEVARD, AUSTIN, TX 78758
(Name and address of NPT Certificate Holder)
2. Manufactured for WASHINGTON PUBLIC POWER SUPPLY SYSTEM, P.O. BOX 968, RICHLAND, WA 99352
(Name and address of purchaser or owner)
3. Location of Installation WNP-2 OPS WHS COMPLEX, WHS#1 N. PWR. PLANT LOOP, RICHLAND, WA 99352

| (a) Part Serial No. | (b) Canadian Registration No. | (c) Part Drawing No. | (d) Description of Part | (e) Class | (f) National Board No. | (g) Year Built |
|------------------------------|--|-------------------------------|-------------------------------|--------------|---------------------------------|----------------------|
| (1) * | N/A | SPN-042 | SWAY STRUT | 1 | N/A | 1990 |
| (2) | | REV.0 | ADJUSTABLE | | | |
| (3) | | | SSR-100 TYPE A | | | |
| (4) | | | | | | |
| (5) | | | | | | |
| (6) | *NA-2765-009 | | | | | |
| (7) | | | | | | |
| (8) | | | | | | |
| (9) | | | | | | |
| (10) | | | | | | |

CERTIFICATE OF COMPLIANCE

We certify 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, Addenda WINTER 1973, Code Case no. N247.
(Date)

Date APRIL 19 19 90. Signed NPS INDUSTRIES, INC. by SANDY REYNOLDS
(NPT Certificate Holder)

Our ASME Certificate of Authorization No. N-2689 to use the NPT Symbol expires JULY 12, 1991
(NPT) (Date)

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 TEXAS and employed by COMMERCIAL UNION of BOSTON, MASSACHUSETTS

have inspected the parts for the component supports described in this Data Report on 4-19 19 90, and state that to the best of my knowledge and belief the NPT Certificate Holder has constructed these component support parts in accordance with the ASME Code for Nuclear Power Plant Components.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the component supports 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 4-19-90

Signed [Signature] Commissions TX 1083
(Nat'l Board, State, Province, and No.)

* Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8 1/2 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 NP-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
Buildup Ship
 5/31/90

1. Manufactured by NPS INDUSTRIES, INC., 10420 METRIC BLVD., AUSTIN, TEXAS 78758
(Name and address of NPT Certificate Holder)
2. Manufactured for WASHINGTON PUBLIC POWER SUPPLY SYSTEM, PO BOX 968, RICHLAND, WA 99352
(Name and address of purchaser or owner)
3. Location of Installation WNP-2 OPS WHS COMPLEX, WHS#1 N. PWR. PLANT LOOP, RICHLAND, WA 99352

| (a) Part Serial No. | (b) Canadian Registration No. | (c) Part Drawing No. | (d) Description of Part | (e) Class | (f) National Board No. | (g) Year Built |
|------------------------------|--|-------------------------------|-------------------------------|--------------|---------------------------------|----------------------|
| (1) * | N/A | NPS-140 | REPLACEMENT | 1 | N/A | 1988 |
| (2) | | REV. 0 | SNUBBER | | | |
| (3) | | | SMR-3 | | | |
| (4) | | | | | | |
| (5) | * NA-2295-026-1 | | | | | |
| (6) | THRU | | | | | |
| (7) | NA-2295-026-20 | | | | | |
| (8) | | | | | | |
| (9) | | | | | | |
| (10) | | | | | | |

CERTIFICATE OF COMPLIANCE

We certify 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, Addenda WINTER 1973, Code Case no. N247.
(Date)

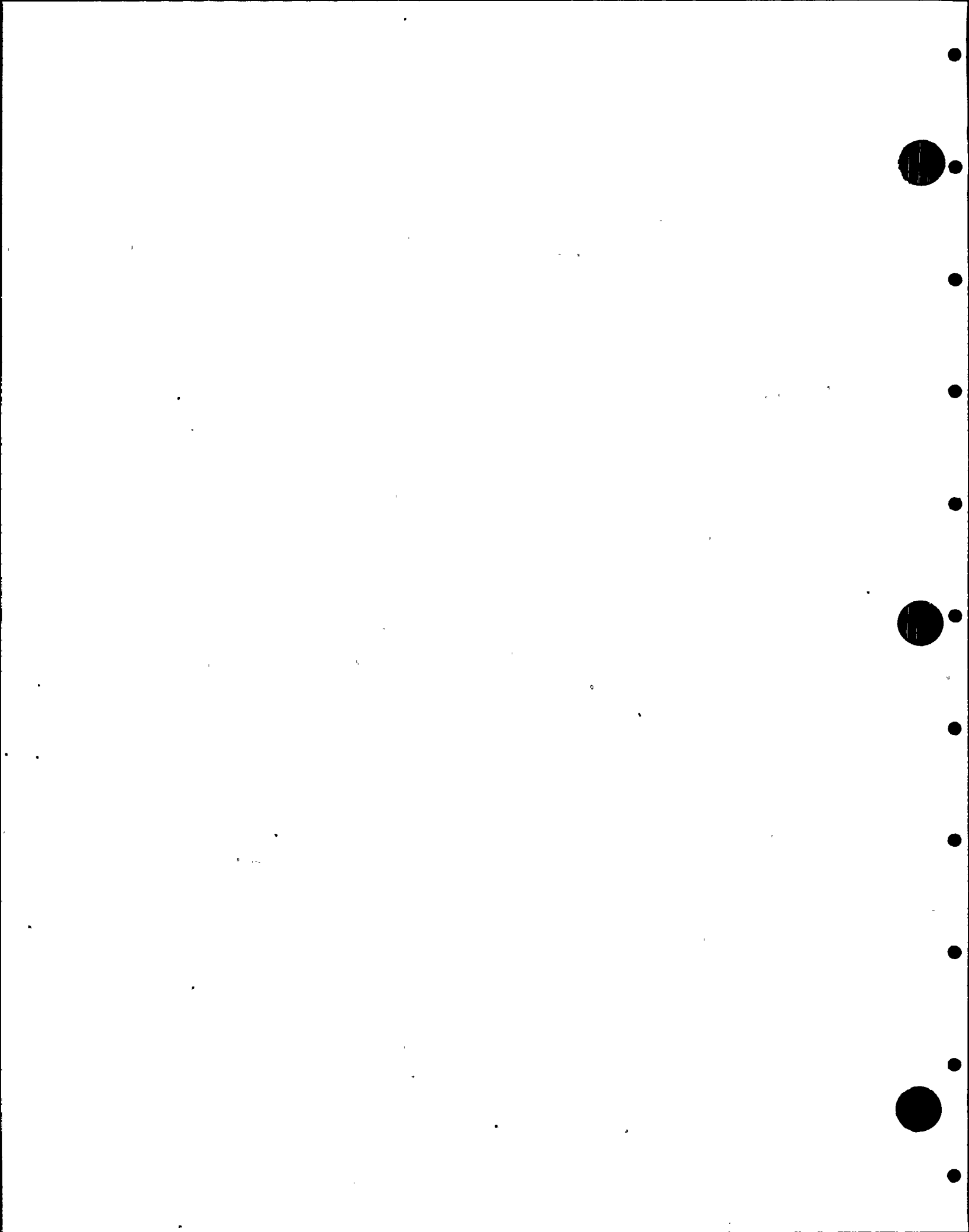
Date MARCH 25 19 88 Signed NPS INDUSTRIES by SANDY REYNOLDS
(NPT Certificate Holder)
 Our ASME Certificate of Authorization No. N-2689 to use the NPT Symbol expires JULY 12, 1988
(Date)

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 of Province of TEXAS and employed by *HSBI&I CO. of HARTFORD, CONNECTICUT have inspected the parts for the component supports described in this Data Report on 3/25 19 88 and state that to the best of my knowledge and belief the NPT Certificate Holder has constructed these component support parts in accordance with the ASME Code for Nuclear Power Plant Components.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the component supports 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 3/25/88
[Signature] Commission TEXAS
(Inspector, State, Province, and No.)



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

1. Manufactured by NPS INDUSTRIES, INC., 10420 METRIC BLVD., AUSTIN, TEXAS 78758 *5/31/90*

(Name and address of NPT Certificate Holder)

2. Manufactured for WASHINGTON PUBLIC POWER SUPPLY SYSTEM, PO BOX 968, RICHLAND, WA 99352

(Name and address of purchaser or owner)

3. Location of Installation WNP-2 OPS WHS COMPLEX, WHS#1 N. PWR. PLANT LOOP, RICHLAND, WA 99352

| (a) Part Serial No. | (b) Canadian Registration No. | (c) Part Drawing No. | (d) Description of Part | (e) Class | (f) National Board No. | (g) Year Built |
|------------------------------|--|-------------------------------|-------------------------------|--------------|---------------------------------|----------------------|
| (1) * | N/A | NPS-140 | REPLACEMENT | 1 | N/A | 1988 |
| (2) | | REV.0 | SNUBBER | | | |
| (3) | | | SMR-10 | | | |
| (4) | | | | | | |
| (5) | * NA-2295-027-1 | | | | | |
| (6) | THRU | | | | | |
| (7) | NA-2295-027-21 | | | | | |
| (8) | | | | | | |
| (9) | | | | | | |
| (10) | | | | | | |

CERTIFICATE OF COMPLIANCE

We certify 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, Addenda WINTER 1973, Code Case no. N247.

Date MARCH 25 19 88 Signed NPS INDUSTRIES by SANDY REYNOLDS

Our ASME Certificate of Authorization No. N-2589 to use the NPT Symbol expires JULY 12, 1988

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 TEXAS and employed by *HSBI&I CO. of HARTFORD, CONNECTICUT

have inspected the parts for the component supports described in this Data Report on 3/25 19 88 and state that to the best of my knowledge and belief the NPT Certificate Holder has constructed these component support parts in accordance with the ASME Code for Nuclear Power Plant Components.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the component supports 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 3/25/88

[Signature] Commission TEXAS 1186



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
 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: 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 RHR-RV-30 | WPPSS JE Lonegran | RHR(9)-1-P1 509258-77-1 | N/A N/A | N/A N/A | 1983 1978 | Replacement Replacement | Yes, Code Class 2 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)

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other 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 Dwain Surr's

Signed by [Signature]
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 4/4/90 to 5/2/90 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.

[Signature]
Inspector's Signature

Commissions 95566
National Board, State, and Endorsements

Date 6/4/90



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

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

Date: 8/20/90

Sheet: 1 of 1

Unit: WNP-2

| 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



FORM NIS-2 (Back)

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure 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 215585-2 and stem disc, Serial No 6033641-158

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 Dulrip Gupta Signed by [Signature]
Plant Technical Manager

Date 8/20/90 Date 8-21-90

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 4/19/90 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.

[Signature] Commissions 95576 W
Inspector's Signature National Board, State, and Endorsements

Date 8/22/90

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

Rudolph Smith
2/11/90

As Required by the Provisions of the ASME Code, Section III
Not To Exceed One Day's Production

1. Manufactured and certified by Edwards Valves, Inc., 1900 E. Saunders St., Raleigh, NC 27603
(name and address of NPT Certificate Holder)
2. Manufactured for Washington Public Power Supply System, Richland, Washington 99352
(name and address of purchaser)
3. Location of installation Hanford II, Richland, Washington 99352
(name and address)
4. Type PD-422885, R/S SA 105 N/A N/A 1990
(drawing no.) (mat'l. spec. no.) (tensile strength) (CRNI) (year built)
5. ASME Code, Section III: 1971 Winter 1971 1 N/A
(edition) (addenda date) (class) (Code Case no.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A Revision N/A Date N/A
(no.)
7. Remarks: Four (4) Disk-Pison assemblies for size 26 figure 1612 JMMNTY
flite-flow balanced stop valve.

(Ref. S.O.E36-11692)

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 |
|---------------------------------------|---|---------------------------------------|--|
| (1) <u>215585-1</u> | <u>N/A</u> | (26) | |
| (2) <u>215585-2</u> | <u>N/A</u> | (27) | |
| (3) <u>215585-3</u> | <u>N/A</u> | (28) | |
| (4) <u>215585-4</u> | <u>N/A</u> | (29) | |
| (5) | | (30) | |
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| (24) | | (49) | |
| (25) | | (50) | |

10. Design pressure 1250 psi. Temp. 575 °F. Hydro. test pressure N/A at temp. °F

*Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 x 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 Brooks P.E. State CA Reg. no. 13655
(when applicable)
Design report* certified by S.L. Adams III P.E. State NC Reg. no. 4187
(when applicable)

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that this (these) Parts
conforms to the rules of construction of the ASME Code, Section III.

NPT Certificate of Authorization No. N-1563 Expires 11/26/91
Date 2/23/90 Name Edward Valves, Inc. Signed [Signature]
(NPT Certificate Holder) (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 Carolina and employed by The Hartford Steam Boiler Inspection & Insurance Company of Hartford, 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 [Signature] Commissions NC 1083
(Authorized Inspector) (Nat'l. Bd. (incl. endorsements) state or prov. and no.)

R 2-28-90

PLAN No. 2-0554
Rudip Sivib
 6/11/90.

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

Pg 1 of 2

1. Manufactured and certified by Rockwell International Corp., 1900 S. Saunders St., Raleigh, NC 27603
(name and address of certificate holder)
2. Manufactured for Washington Public Power Supply System, Richland, WA 99352-0968
(name and address of purchaser)
3. Location of installation Hanford II, Richland, WA 99352
(name and address)
4. Type PD-422885 R/R SA-105 N/A N/A 1989
(drawing no.) (mat'l. spec. no.) (tensile strength) (CRN) (year built)
5. ASME Code, Section III: 1971 Winter 1971 1 N/A
(edition) (addenda) (class) (Code Case no.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A Revision N/A Date N/A
(No.)
7. Remarks: Eight (8) Stem Disk for 26" 1612 JMMNTY Main Steam Isolation Valve.

Rockwell S.O. No. 36-07399

8. Nom. thickness (in.) N/A Min. design thickness (in.) Per 3d 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 |
|---------------------------------------|---|---------------------------------------|--|
| (1) 6033641-151 | N/A | (26) | |
| (2) 6033641-152 | N/A | (27) | |
| (3) 6033641-153 | N/A | (28) | |
| (4) 6033641-154 | N/A | (29) | |
| (5) 6033641-155 | N/A | (30) | |
| (6) 6033641-156 | N/A | (31) | |
| (7) 6033641-157 | N/A | (32) | |
| (8) 6033641-158 | N/A | (33) | |
| (9) | | (34) | |
| (10) | | (35) | |
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| (23) | | (48) | |
| (24) | | (49) | |
| (25) | | (50) | |

10. Design pressure 1250 psi Temp. 575 °F. Hydro. test pressure N/A at temp. °F.
(when applicable)

*Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 X 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.

CERTIFICATE OF DESIGN

Design specifications certified by Boyd Brooks P. E. state CA Reg. no. 13655

(when applicable)

Design report* certified by Salathiel Liell Adams, III P. E. state NC Reg. no. 4187

(when applicable)

CERTIFICATE OF SHOP COMPLIANCE

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 Certificate of Authorization no. N-1563 Expires 11/25/91

Date 4/7/89 Name Rockwell International Corp. Signed [Signature]
(NPT Certificate Holder) (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 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 [Signature] Commissions NC 1043
(Authorized Inspector) (N.B.T. Bd. (incl. endorsements) 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)

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 | JT-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 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 Dudley Guip Signed by [Signature]
Plant Technical Manager
Date 8/20/90 Date 8-21-90

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 4/19/90 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.

[Signature] Commissions 95516 LW
Inspector's Signature National Board, State, and Endorsements
Date 8/22/90

Ludwig Supb
6/11/90.

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

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, Inc., 1900 E. Saunders St., Raleigh, NC 27603
(name and address of NPT Certificate Holder)
2. Manufactured for Washington Public Power Supply System, Richland, Washington 99352
(name and address of purchaser)
3. Location of installation Hanford II, Richland, Washington 99352
(name and address)
4. Type PD-422885 R/S SA 105 N/A N/A 1990
(drawing no.) (mat'l. spec. no.) (tensile strength) (CRN) (year built)
5. ASME Code, Section III: 1971 Winter 1971 1 N/A
(edition) (addenda date) (class) (Code Case no.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A Revision N/A Date N/A
(no.)
7. Remarks: Four (4) Disk-Pisan assemblies for size 26 figure 1612 IMMNTY
flite-flow balanced stop valve.

(Ref. S.O. E36-11692)

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 |
|---------------------------------------|---|
| (1) <u>215585-1</u> | <u>N/A</u> |
| (2) <u>215585-2</u> | <u>N/A</u> |
| (3) <u>215585-3</u> | <u>N/A</u> |
| (4) <u>215585-4</u> | <u>N/A</u> |
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| Part or Appurtenance Serial Number | National Board Number in Numerical Order |
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| (26) | |
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| (50) | |

10. Design pressure 1250 psi. Temp. 575 °F. Hydro. test pressure N/A at temp. °F
(when applicable)

*Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 x 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 Brooks P.E. State CA Reg. no. 13655
(when applicable)

Design report* certified by S.L. Adams III P.E. State NC Reg. no. 4187
(when applicable)

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that this (these) Parts conforms to the rules of construction of the ASME Code, Section III.

NPT Certificate of Authorization No. N-1563 Expires 11/26/91

Date 2/23/90 Name Edward Valves, Inc. Signed [Signature]
(NPT Certificate Holder) (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 Carolina and employed by The Hartford Steam Boiler Inspection & Insurance Company of Hartford, 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 [Signature] Commissions NC 1083
(Authorized Inspector) (Nat'l. Bd. (incl. endorsements) state or prov. and no.)

R 2-23-90

FORM N-2 N OR NPT CERTIFICATE HOLDERS' DATA REPORT FOR IDENTICAL *Guiding Equip*
 NUCLEAR PARTS AND APPURTENANCES* *6/11/90*

As Required by the Provisions of the ASME Code, Section III, Division 1
 Not To Exceed One Day's Production

1. Manufactured and certified by Rockwell International Corp., 1900 S. Saunders St., Raleigh, NC 27603
(name and address of certificate holder)
2. Manufactured for Washington Public Power Supply System, Richland, WA 99352-0968
(name and address of purchaser)
3. Location of installation Hanford II, Richland, WA 99352
(name and address)
4. Type PD-422885 R/R SA-105 N/A N/A -1989
(drawing no.) (mat'l. spec. no.) (tensile strength) (CRN) (year built)
5. ASME Code, Section III: 1971 Winter 1971 1 N/A
(edition) (addenda) (class) (Code Case no.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A Revision N/A Date N/A
(No.)
7. Remarks: Eight (8) Stem Disk for 26" 1612 JMMNTY Main Steam Isolation Valve.

Rockwell S.O. No. 36-07399

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 |
|---------------------------------------|---|---------------------------------------|--|
| (1) 6033641-151 | N/A | (26) | |
| (2) 6033641-152 | N/A | (27) | |
| (3) 6033641-153 | N/A | (28) | |
| (4) 6033641-154 | N/A | (29) | |
| (5) 6033641-155 | N/A | (30) | |
| (6) 6033641-156 | N/A | (31) | |
| (7) 6033641-157 | N/A | (32) | |
| (8) 6033641-158 | N/A | (33) | |
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| (24) | | (49) | |
| (25) | | (50) | |

10. Design pressure 1250 psi Temp. 575 °F. Hydro. test pressure N/A at temp. °F.
(when applicable)

*Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 X 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.

CERTIFICATE OF DESIGN

Design specifications certified by Royd Brooks P. E. state CA Reg. no. 13655
(when applicable)
Design report* certified by Salathiel Liell Adams, III P. E. state NC Reg. no. 4187
(when applicable)

CERTIFICATE OF SHOP COMPLIANCE

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 Certificate of Authorization no. N-1563 Expires 11/25/91

Date 4/7/89 Name Rockwell International Corp. Signed [Signature]
(NPT Certificate Holder) (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 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 [Signature] Commissions NC 1093
(Authorized Inspector) (Nat'l. Bd. (incl. endorsements) 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)
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-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



FORM NIS-2 (Back)

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure 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 215585-3 and stem disc, Serial No 6033641-151

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 Rudolf Eupb

Signed by [Signature]
Plant Technical Manager

Date 8/20/90

Date 8-21-90

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 4/19/90 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.

[Signature]
Inspector's Signature

Commissions 9556 W
National Board, State, and Endorsements

Date 8/22/90

Rudolph Swift
6/11/90.

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

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, Inc., 1900 J. Saunders St., Raleigh, NC 27603
(name and address of NPT Certificate Holder)
2. Manufactured For Washington Public Power Supply System, Richland, Washington 99352
(name and address of purchaser)
3. Location of installation Hanford II, Richland, Washington 99352
(name and address)
4. Type PD-422885, R/S SA 105 N/A N/A 1990
(drawing no.) (mat'l. spec. no.) (tensile strength) (CRN) (year built)
5. ASME Code, Section III: 1971 Winter 1971 1 N/A
(edition) (addenda date) (class) (Code Case no.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A Revision N/A Date N/A
(no.)
7. Remarks: Four (4) Disk-Pison assemblies for size 26 figure 1612 JMMNTY
flite-flow balanced stop valve.

(Ref S.O.E36-11692)

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 |
|------------------------------------|---------------------------------------|
| (1) <u>215585-1</u> | <u>N/A</u> |
| (2) <u>215585-2</u> | <u>N/A</u> |
| (3) <u>215585-3</u> | <u>N/A</u> |
| (4) <u>215585-4</u> | <u>N/A</u> |
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| (22) | |
| (23) | |
| (24) | |
| (25) | |

| Part or Appurtenance Serial Number | National Board Number in Numerical Order |
|------------------------------------|--|
| (26) | |
| (27) | |
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| (48) | |
| (49) | |
| (50) | |

10. Design pressure 1250 psi. Temp. 575 °F. Hydro. test pressure N/A at temp. °F
(when applicable)

*Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 x 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 Brooks P.E. State CA Reg. no. 13655
(when applicable)

Design report* certified by S.L. Adams III P.E. State NC Reg. no. 4187
(when applicable)

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that this (these) Parts conforms to the rules of construction of the ASME Code, Section III.

NPT Certificate of Authorization No. N-1563 Expires 11/26/91

Date 2/23/90 Name Edward Valves, Inc. Signed [Signature]
(NPT Certificate Holder) (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 Carolina and employed by The Hartford Steam Boiler Inspection & Insurance Company of Hartford, 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 [Signature] Commissions NC 1083
(Authorized Inspector) (Nat'l. Bd. (incl. endorsements) state or prov. and no.)

R 2-26-90



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: 8/20/90
 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: 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



FORM NIS-2 (Back)

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure 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 Dudip Gupta

Signed by [Signature]
Plant Technical Manager

Date 8/20/90

Date 8-21-90

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 4/19/90 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.

[Signature]
Inspector's Signature

Commissions 9556 W
National Board, State, and Endorsements

Date 8/22/90

PLAN NO. 2-0557
Kuldip Suresh
6/4/90

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

1. Manufactured and certified by Rockwell International Corp., 1900 S. Saunders St., Raleigh, NC 2760
(name and address of certificate holder)
2. Manufactured for Washington Public Power Supply System, Richland, WA 99352-0968
(name and address of purchaser)
3. Location of installation Hanford II, Richland, WA 99352
(name and address)
4. Type PD-422885 R/R SA-105 N/A N/A 1989
(drawing no.) (mat'l. spec. no.) (tensile strength) (CRN) (year built)
5. ASME Code, Section III: 1971 Winter 1971 1 N/A
(edition) (addenda) (class) (Code Case no.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A Revision N/A Date N/A
(No.)
7. Remarks: Eight (8) Stem Disk for 26" 1612 JMMNTY Main Steam Isolation Valve.

Rockwell S.O. No. 36-07399

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 |
|---------------------------------------|---|---------------------------------------|--|
| (1) 6033641-151 | N/A | (26) | |
| (2) 6033641-152 | N/A | (27) | |
| (3) 6033641-153 | N/A | (28) | |
| (4) 6033641-154 | N/A | (29) | |
| (5) 6033641-155 | N/A | (30) | |
| (6) 6033641-156 | N/A | (31) | |
| (7) 6033641-157 | N/A | (32) | |
| (8) 6033641-158 | N/A | (33) | |
| (9) | | (34) | |
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| (24) | | (49) | |
| (25) | | (50) | |

10. Design pressure 1250 psi Temp. 575 °F. Hydro. test pressure N/A at temp. °F
(when applicable)

*Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 X 11, (2) information in Item 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.

CERTIFICATE OF DESIGN

158

Rudolph E. Swartz
6/14/90

Design specifications certified by Boyd Brooks
(when applicable)

P. E. state CA Reg. no. 13655

Design report* certified by Salathiel Liell Adams, III
(when applicable)

P. E. state NC Reg. no. 4187

CERTIFICATE OF SHOP COMPLIANCE

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 Certificate of Authorization no. N-1563 Expires 11/25/91

Date 4/7/89 Name Rockwell International Corp. Signed *Rudolph E. Swartz*
(NPT Certificate Holder) (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 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 *[Signature]* Commissions NC 1043
(Authorized Inspector) (Nat'l. Bd. (incl. endorsements) state or prov. and no.)

PLAN NO. 2-0557

Valve Sup^{ty}
6/4/90

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

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, Inc., 1900 S. Saunders St., Raleigh, NC 27603
(name and address of NPT Certificate Holder)
- 2. Manufactured for Washington Public Power Supply System, Richland, Washington 99352
(name and address of purchaser)
- 3. Location of installation Hanford II, Richland, Washington 99352
(name and address)
- 4. Type PD-422885 R/S SA 105 N/A N/A 1990
(drawing no.) (mat'l. spec. no.) (tensile strength) (CRN) (year built)
- 5. ASME Code, Section III: 1971 Winter 1971 1 N/A
(edition) (addenda date) (class) (Code Case no.)
- 6. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A Revision N/A Date N/A
(no.)
- 7. Remarks: Four (4) Disk-Piston⁺ assemblies for size 26 figure 1612 IMMNTY
flite-flow balanced stop valve.

(Ref S.O. E36-11692)

- 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 |
|------------------------------------|---------------------------------------|
| (1) <u>215585-1</u> | <u>N/A</u> |
| (2) <u>215585-2</u> | <u>N/A</u> |
| (3) <u>215585-3</u> | <u>N/A</u> |
| (4) <u>215585-4</u> | <u>N/A</u> |
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| (6) | |
| (7) | |
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| Part or Appurtenance Serial Number | National Board Number in Numerical Order |
|------------------------------------|--|
| (26) | |
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| (50) | |

- 10. Design pressure 1250 psi. Temp. 575 °F. Hydro. test pressure N/A at temp. °F
(when applicable)

*Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 x 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.
(12/86) This form (E00040) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300.

CERTIFICATION OF DESIGN

Design specifications certified by Boyd Brooks P.E. State CA Reg. no. 13655
(when applicable)
Design report* certified by S.L. Adams III P.E. State NC Reg. no. 4187
(when applicable)

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that this (these) Parts
conforms to the rules of construction of the ASME Code, Section III.

NPT Certificate of Authorization No. N-1563 Expires 11/26/91
Date 2/23/90 Name Edward Values, Inc. Signed [Signature]
(NPT Certificate holder) (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 Carolina and employed by The Hartford Steam Boiler Inspection & Insurance Company of Hartford, 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 [Signature] Commissions NC 1083
(Authorized Inspector) (Nat'l. Bd. Incl. endorsements) state or prov. and no.

10-22-90

PLAN NO. 2-0557
Kuldip Singh
 6/4/90

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

Pg 1 of 2

1. Manufactured and certified by Rockwell International Corp., 1900 S. Saunders St., Raleigh, NC 27601
(name and address of certificate holder)
2. Manufactured for Washington Public Power Supply System, Richland, WA 99352-0968
(name and address of purchaser)
3. Location of installation Hanford II, Richland, WA 99352
(name and address)
4. Type PD-422885 R/R SA-105 N/A N/A 1989
(drawing no.) (mat'l. spec. no.) (tensile strength) (CRN) (year built)
5. ASME Code, Section III: 1971 Winter 1971 I N/A
(edition) (addenda) (class) (Code Case no.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A Revision N/A Date N/A
(No.)
7. Remarks: Eight (8) Stem Disk for 26" 1612 JMMNTY Main Steam Isolation Valve
Rockwell S.O. No. 36-07399

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 |
|---------------------------------------|---|---------------------------------------|--|
| (1) 6033641-151 | N/A | (26) | |
| (2) 6033641-152 | N/A | (27) | |
| (3) 6033641-153 | N/A | (28) | |
| (4) 6033641-154 | N/A | (29) | |
| (5) 6033641-155 | N/A | (30) | |
| (6) 6033641-156 | N/A | (31) | |
| (7) 6033641-157 | N/A | (32) | |
| (8) 6033641-158 | N/A | (33) | |
| (9) | | (34) | |
| (10) | | (35) | |
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| (21) | | (46) | |
| (22) | | (47) | |
| (23) | | (48) | |
| (24) | | (49) | |
| (25) | | (50) | |

10. Design pressure 1250 psi Temp. 575 °F. Hydro. test pressure N/A at temp. °F
(when applicable)

*Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 X 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.

CERTIFICATE OF DESIGN

158

Rudolph Smith
6/4/90

Design specifications certified by Boyd Brooks P. E. state CA Reg. no. 13655
(when applicable)
Design report* certified by Salathiel Liell Adams, III P. E. state NC Reg. no. 418
(when applicable)

CERTIFICATE OF SHOP COMPLIANCE

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 Certificate of Authorization no. N-1563 Expires 11/26/91
Date 4/7/89 Name Rockwell International Corp. Signed [Signature]
(NPT Certificate Holder) (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 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 [Signature] Commissions NC 1083
(Authorized Inspector) (Natl. Bd. (incl. endorsements) 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

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

Sheet: 1 of 1

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 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-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



FORM NIS-2 (Back)

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other
Test Pressure: 957/6.7 Psig Test Temperature: 535/74.8 °F
Component Design Pressure: 1250/500 Psig Temperature: 575/470 °F

9. Remarks: See attached NV-1 Code Data Report for new replacement relief valve MS-RV-1D, Serial No N63790-00-0122

- > 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
- > 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 74.8 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 Quaid Rupp

Signed by [Signature]
Plant Technical Manager

Date 10/18/90

Date 18 OCT 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 4/3/90 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 loss of any kind arising from or connected with this inspection.

[Signature]
Inspector's Signature

Commissions 9556 W
National Board, State, and Endorsements

Date 10/18/90

MS-LV-1D

PLAN NO. 2 0562

10/17/70

10/17/70



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 Valve & Gage Company, 43 Kendrick St., Wrentham, MA 02093
Name and Address

Model No. HB-65-BP-FN Order No. N94281 Contract Date 4/24/79 National Board No. N/A
General Electric Company, 175 Curtner Ave.,

2. Manufactured For San Jose, CA 95125 Order No. 205-AJ986
Name and Address

3. Owner Washington Public Power Supply System, Richland Washington 99352
Name and Address

4. Location of Plant Hanford Reservation, Richland, Washington 99352

5. Valve Identification MPL #B22-F01 Serial No. N63790-00-0122 Drawing No. DS-A-63790 Rev. C

Type Safety Relief Orifice Size R Pipe Size -- Inlet 6 Outlet 10
Safety, Safety Relief, Pilot, Power Actuated Inch Inch Inch Inch

6. Set Pressure (psig) 1175 Rated Temperature 575° F

Stamped Capacity 884.314 @ 3 Overpressure -- Blowdown (psig) 2% to 11%

Hydrostatic Test (psig) Inlet 2370 Outlet 975 psig (Assembled Valve)
1100 psig (Body Only)
(Applicable to Valves for Closed Systems Only)

Pressure Retaining Pieces

| | Serial No. Identification | Material Specification Including Type or Grade |
|--|--|--|
| a. Castings Bar Stock & Forgings | | |
| Body | <u>N93183-36-0085</u> | <u>ASTM A105-71 Gr. II</u> <u>ASME SA105 Gr. II</u> |
| Bonnet | <u>N93407-36-0097</u> | <u>ASTM A105-71 Gr. II</u> <u>ASME SA105 Gr. II</u> |
| b. Pressure Retaining Pieces Pressure Retaining Pieces Disc Insert | <u>N93185-37-0153</u> | <u>ASME SA637 Gr. 718</u> |
| Nozzle | <u>N93184-33-0070</u> | <u>ASME SA182 Gr. F316</u> |
| Disc Holder K55484-31-0016 | <u>N89714-31-0014</u> | <u>AMS 5662B</u> |
| Spring Washers K62858-36-0080 | <u>K62856-36-0107</u> <u>K62857-36-0121</u> | <u>ASME SA105 Gr. II</u> |
| Adjusting Bolt | <u>N93410-33-0071</u> | <u>ASME SA193 Gr. B6</u> |
| Spindle Point K62873-37-0135 | <u>N89720-43-0145</u> | <u>ASME SA564 Type 630</u> |
| c. Spring K62858-36-0080 | <u>*N89722-0085</u> | <u>ASTM A304-66 Gr. 4161H</u> |
| d. Bolting Spindle Ball | | |
| e. Pressure Retaining Pieces K62873-37-0135 | <u>N93213-0202</u> | <u>Stoody #6</u> |
| Thrust Bearing Adapter | <u>N93409-32-0068</u> | <u>ASME SA193 Gr. B6</u> |
| Bonnet Stud (BW19) | <u>N93207-1498 thru 1509</u> | <u>ASTM A193-71 Gr. B7</u> <u>ASME SA193 Gr. B7</u> |
| Bonnet Stud Nut (J87) | <u>N93210-1009 thru 1020</u> | <u>ASME SA194 Gr. 2H</u> |
| Inlet Stud (BW21) | <u>N93216-1431 thru 1442</u> | <u>ASTM A193-71 Gr. B7</u> <u>ASME SA193 Gr. B7</u> |
| Inlet Stud Nut (BW22) | <u>N93218-1365 thru 1376</u> | <u>ASTM A194-71 Gr. 2H</u> <u>ASME SA194 Gr. 2H</u> |

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.

N63790-00-0122

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 1 (Date)

Date 11/5/80 Signed Crosby Valve & Gage Co. by J. J. Keene
(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

Design specifications certified by ¹ Boyd P. Brooks

PE State California Reg. No. 13655

Stress report certified by ¹ W.D. Greenlaw

PE State Massachusetts Reg. No. 14784

¹Signature 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 1/9, 1981 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 1/9 1981
Signed John D. Morrow Commissions 119/81
(Inspector) (Nac'l. Bd., State, Prov. and No.)

*Arlwright-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

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 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

Date: 10/17/90
Sheet: 1 of 1
Unit: WNP-2

| 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 Nominal Operating Pressure Other
Test Pressure: 957/6.7 Psig Test Temperature: 535/74.8 °F
Component Design Pressure: 1250/500 Psig Temperature: 575/470 °F

9. Remarks: See attached NV-1 Code Data Report for new replacement relief valve MS-RV-3D, Serial No N63790-00-0126

- > 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
- > 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 74.8 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 Rudolph Snipb

Signed by [Signature]
Plant Technical Manager

Date 10/18/90

Date 12067 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 4/3/90 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 loss of any kind arising from or connected with this inspection.

[Signature]
Inspector's Signature

Commissions 95516 W
National Board, State, and Endorsements

Date 10/18/90

10/17/90



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

Q.C.-44D

DATA REPORT
Safety and Safety Relief Valves

1. Manufactured By Crosby Valve & Gage Company, 43 Kendrick St., Wrentham, MA 02093
Name and Address
Model No. HB-65-BP-FN Order No. N94281 Contract Date 4/24/79 National Board No. N/A
General Electric Company, 175 Curtner Ave.,
2. Manufactured For San Jose, CA 95125 Order No. 205-AJ986
Name and Address
3. Owner Washington Public Power Supply System, Richland, Washington 99352
Name and Address
4. Location of Plant Hanford Reservation, Richland, Washington 99352
5. Valve Identification MPL #B22-F013 Serial No. N63790-00-0126 Drawing No. DS-A-63790 Rev. C
Type Safety Relief Orifice Size R Pipe Size -- Inlet 6 Outlet 10
Safety, Safety Relief, Pilot, Inch Inch Inch Inch
Power Actuated
6. Set Pressure (psig) 1195 5750 F
Rated Temperature
Stamped Capacity 899,185 @ 3 % Overpressure -- Blowdown (psig) 2% to 11%
Hydrostatic Test (psig) Inlet 2370 Outlet 1100 psig (Assembled Valve)
975 psig (Body Only)
(Applicable to Valves for Closed Systems Only)

Pressure Retaining Pieces

| | Serial No. Identification | Material Specification Including Type or Grade |
|---|---|--|
| a. Bar Stock & Forgings | | |
| Body | <u>N93183-36-0089</u> | <u>ASTM A105-71 Gr. II</u> <u>ASME SA105 Gr. II</u> |
| Bonnet | <u>N93407-36-0095</u> | <u>ASTM A105-71 Gr. II</u> <u>ASME SA105 Gr. II</u> |
| b. Bar Stock & Forgings | | |
| Support Rods Disc Insert | <u>N93185-37-0159</u> | <u>ASME SA637 Gr. 718</u> |
| Nozzle | <u>N93184-33-0074</u> | <u>ASME SA182 Gr. F316</u> |
| Disc Holder K55484-31-0002 | <u>N89714-31-0003</u> | <u>AMS 5662B</u> |
| Spring Washers K62858-36-0105 | <u>K62856-36-0114</u> <u>K62857-36-0101</u> | <u>ASME SA105 Gr. II</u> |
| Adjusting Bolt | <u>N93410-33-0074</u> | <u>ASME SA193 Gr. B6</u> |
| Spindle Point K62873-37-0134 | <u>N89720-43-0154</u> | <u>ASME SA564 Type 630</u> |
| c. Spring K62858-36-0105 | <u>*N89722-0056</u> | <u>ASTM A304-66 Gr. 4161H</u> |
| d. Bolting | | |
| e. Component | | |
| Spindle Ball K62873-37-0134 | <u>N93213-0201</u> | <u>Stoody #6</u> |
| Thrust Bearing Adapter | <u>N93409-32-0067</u> | <u>ASME SA193 Gr. B6</u> |
| Bonnet Stud (BW19) | <u>N93207-1534 thru 1545</u> | <u>ASTM A193-71 Gr. B7</u> <u>ASME SA193 Gr. B7</u> |
| Bonnet Stud Nut (J87) | <u>N93210-1057 thru 1068</u> | <u>ASME SA194 Gr. 2H</u> |
| Inlet Stud (BW18) | <u>N93216-1685 thru 1696</u> <u>(BW22) N93218-1401 thru 1412</u> | <u>ASTM A193-71 Gr. B7</u> <u>ASME SA193 Gr. B7</u> <u>ASTM A194-71 Gr. 2H</u> |
| Inlet Stud Nut | | <u>ASME SA194 Gr. 2H</u> |
| Adjusting Bolt But.on K63618-33-0079 | <u>N93411-33-0079</u> | <u>ASME SA193 Gr. B6</u> |

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 1 (Date)

Date 11-5-80 Signed Crosby Valve & Gage Co. by R. G. Calver
(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

Design specifications certified by ¹ Bovd P. Brooks

PE State California Reg. No. 13655

Stress report certified by ¹ W.D. Greenlaw

PE State Massachusetts Reg. No. 14784

¹Signature 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, 1981 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 John J. Moran Commissions MASS 1266
(Inspector) (Nat'l. Bd., State, Prov. and No.)

*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

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)
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-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



FORM NIS-2 (Back)

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other
Test Pressure: 6.7 Psig Test Temperature: 86.5 °F
*Component Design Pressure: 1175 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 Rudip Rups Signed by [Signature]
Plant Technical Manager

Date 10/18/90. Date 18 OCT 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 3/26/90 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.

[Signature] 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

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)
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-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



FORM NIS-2 (Back)

8. Tests Conducted: Hydrostatic Pneumatic 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 *Rudolf Rupp*

Signed by *[Signature]*
Plant Technical Manager

Date 10/18/90

Date 18 OCT 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.

[Signature]
Inspector's Signature

Commissions 9556W
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

1. Owner: Washington Public Power Supply System (WPPSS) Date: 10/17/90
 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: 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



FORM NIS-2 (Back)

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure 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 Richard Supb Signed by [Signature]
Plant Technical Manager

Date 10/18/90 Date 18 OCT 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 10/19/90 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.

[Signature] Commissions 9556 W
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

1. Owner: Washington Public Power Supply System (WPPSS) Date: 10/17/90
 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: 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



FORM NIS-2 (Back)

8. 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 Kudrip Suresh Signed by [Signature]
Plant Technical Manager

Date 10/18/90 Date 18 OCT 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.

[Signature] 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

1. Owner: Washington Public Power Supply System (WPPSS) Date: 10/17/90
 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: 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 Quincy Supb Signed by [Signature]
Plant Technical Manager

Date 10/18/90 Date 18 OCT 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.

[Signature] Commissions 9556 W
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

1. Owner: Washington Public Power Supply System (WPPSS) Date: 10/17/90
 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: 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-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



FORM NIS-2 (Back)

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other
Test Pressure: 6.75 Psig Test Temperature: 74 °F
*Component Design Pressure: 1205 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 Dwain Rupp

Signed by [Signature]
Plant Technical Manager

Date 10/18/90

Date 18 OCT 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.

[Signature]
Inspector's Signature

Commissions 9556W
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

- 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 Other
Test Pressure: * Psig Test Temperature: * °F
Component Design Pressure: 1400 Psig Temperature: 150 °F

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 83.4° F pump side (inlet) flanged connection
- 1300 Psig at 83° 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 Ronald Swob

Signed by [Signature]
Plant Technical Manager

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 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 5/26/90 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.

[Signature]
Inspector's Signature

Commissions 9556 W
National Board, State, and Endorsements

Date 5/30/90

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

PLAN NO. 2-0570
Revised: 5/1/70
Pg 1 of 1

Manufactured and certified by CONAX BUFFALO CORPORATION, 2300 WALDEN AVENUE, Cheektowaga, NY 14225
(name and address of certificate holder)

Manufactured for WASHINGTON PUBLIC POWER SUPPLY, RICHLAND, WA 99352
(name and address of purchaser)

Location of installation WASHINGTON NUCLEAR POWER-2, RICHLAND, WA 99352
(name and address)

Type N38017 SA479 304SST 75KSI N/A 90
(drawing no) (nat'l spec. no.) (tensile strength) (CRN) (year built)

ASME Code, Section III: 77 S77 1 N/A
(edition) (addenda) (class) (Code Case no.)

Fabricated in accordance with Const. Spec. (Div. 2 only) N/A Revision N/A Date _____
(No.)

Remarks: INLET PIPING FOR EXPLOSIVE ACTUATED VALVE REPLACEMENT KIT FOR STANDBY
LIQUID CONTROL SYSTEM

Nom. thickness (in.) .040 Min. design thickness (in.) .031 Dia. ID (ft. & in.) N/A Length overall (ft. & in.) N/A

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 |
|---------------------------------------|---|---------------------------------------|--|
| (1) 3362 ✓ | 3362 | (26) | |
| (2) 3363 ✓ | 3363 | (27) | |
| (3) 3364 ✓ | 3364 | (28) | |
| (4) 3365 ✓ | 3365 | (29) | |
| (5) | | (30) | |
| (6) | | (31) | |
| (7) | | (32) | |
| (8) | | (33) | |
| (9) | | (34) | |
| (10) | | (35) | |
| (11) | | (36) | |
| (12) | VERIFIED & ACCEPTED | (37) | |
| (13) | LEVEL | (38) | |
| (14) | R/L | (39) | |
| (15) | | (40) | |
| (16) | | (41) | |
| (17) | | (42) | |
| (18) | | (43) | |
| (19) | | (44) | |
| (20) | | (45) | |
| (21) | | (46) | |
| (22) | | (47) | |
| (23) | | (48) | |
| (24) | | (49) | |
| (25) | | (50) | |

Design pressure 1500 psi Temp. 150 °F. Hydro. test pressure *See #7 at temp. °F.
(when applicable)

*Supplemental information in form of lists, sketches or drawings may be used provided (1) size is 8 1/2 X 11, (2) information in items 2 and 3 on this data report is included on each sheet, (3) each sheet is numbered and recorded on one of this form, and (4) each additional sheet shall be signed by the Certificate Holder and the ANI.

Kuldip Sup's
5/1/90.

CERTIFICATE OF DESIGN

Design specifications certified by George Ivo Skoda P. E. state CA Reg. no. 15647

Design report* certified by Francis J. Domino P. E. state NY Reg. no. 36832
(when applicable)

CERTIFICATE OF SHOP COMPLIANCE

I certify that the statements made in this report are correct and that this (these) Trigger Body Sub-Assembly conform to the rules of construction of the ASME Code, Section III.

ASME Certificate of Authorization no. N-1850 Expires September 2, 1992

Date 4-20-90 Name Conax Buffalo Corporation Signed James G. Schover
(NPT Certificate Holder) James G. Schover, QA Mgr.

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 New York and employed by Hartford Steam Boiler Inspection and Insurance Co.

Hartford, Conn. have inspected these items described in this data report on 4-20-90 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.

I, Robert J. Rankin Signed Robert J. Rankin Commissions NB 7284 N
(Authorized Inspector) (Nat'l Bd (incl endorsements) state or prov. and reg)

Should be inlet fittings

Kuldip Sup's
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

PLAN NO. 2-0570
Revised by [Signature]
Pg 1 of 1 5/27/91

1. Manufactured and certified by CONAX BUFFALO CORPORATION, 2300 WALDEN AVENUE, Cheektowaga, NY 14225
(name and address of certificate holder)

2. Manufactured for WASHINGTON PUBLIC POWER SUPPLY, RICHLAND, WA 99352
(name and address of purchaser)

3. Location of installation WASHINGTON NUCLEAR POWER-2, RICHLAND, WA 99352
(name and address)

4. Type N-20000 SA479 304SST 75KSI N/A 90
(drawing no.) (nat'l spec. no.) (tensile strength) (CRN) (year built)

5. ASME Code, Section III: .77 S77 1 N/A
(edition) (addenda) (class) (Code Case no.)

6. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A Revision N/A Date _____
(No.)

7. Remarks: ~~TRIGGER BODY ASSEMBLY~~ FOR EXPLOSIVE ACTUATED VALVE REPLACEMENT KIT FOR
STANDBY LIQUID CONTROL SYSTEM. PRESSURE TESTED AT 2800 PSI FOR 10 MINUTES;
PARA. NB-2121(b) IS APPLICABLE TO RAM

8. Nom. thickness (in.) *See #7 Min. design thickness (in.) _____ Dia. ID (ft. & in.) _____ Length overall (ft. & in.) _____

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 |
|------------------------------------|---------------------------------------|------------------------------------|--|
| (1) 3358 ✓ | 3358 | (26) | |
| (2) 3359 ✓ | 3359 | (27) | |
| (3) 3360 ✓ | 3360 | (28) | |
| (4) 3361 ✓ | 3361 | (29) | |
| (5) | | (30) | |
| (6) | | (31) | |
| (7) | | (32) | |
| (8) | | (33) | |
| (9) | | (34) | |
| (10) | | (35) | |
| (11) | | (36) | |
| (12) | | (37) | |
| (13) | | (38) | |
| (14) | | (39) | |
| (15) | | (40) | |
| (16) | | (41) | |
| (17) | | (42) | |
| (18) | | (43) | |
| (19) | | (44) | |
| (20) | | (45) | |
| (21) | | (46) | |
| (22) | | (47) | |
| (23) | | (48) | |
| (24) | | (49) | |
| | | (50) | |

10. Design pressure 1500 psi Temp. 150 °F. Hydro. test pressure *See #7 _____ at temp. °F.
(when applicable)

*Supplemental information in form of lists, sketches or drawings may be used provided (1) size is 8 1/2 X 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 Holder and the ANI.
(6/83) This form (E0004C) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

5/1/90

CERTIFICATE OF DESIGN

Design specifications certified by George Ivo Skoda P. E. state CA Reg. no. 15647
Design report* certified by Francis J. Domino P. E. state NY Reg. no. 36832
(when applicable)

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that this (these) Trigger Body Sub-Assembly
conform to the rules of construction of the ASME Code, Section III.

ASME Certificate of Authorization no. N-1850 Expires September 2, 1992
Date 4-20-90 Name Conax Buffalo Corporation Signed James G. Giverson
(NPT Certificate Holder) 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-
vince of New York and employed by Hartford Steam Boiler Inspection and Insurance Co.
of Hartford, Conn. have inspected these items described in this data report on 4-20-90 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 4-20-90 Signed Robert L. Buckner Commissions 267754 N
(Authorized Inspector) (Nat'l Bd (incl endorsements) 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) Date: 9/13/90
 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: 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



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: 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 Rudolf Sump Signed by [Signature]
Plant Technical Manager

Date 9/13/90 Date 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 3/26/90 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.

[Signature] Commissions 9556 W
Inspector's Signature National Board, State, and Endorsements

Date 9/13/90



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: 8/20/90

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 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 Rudip Supis

Signed by [Signature]
Plant Technical Manager

Date 8/20/90

Date 8-21-90

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 4/9/90 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.

[Signature]
Inspector's Signature

Commissions 9556 W
National Board, State, and Endorsements

Date 8/22/90

PLAN No. 2-0574
Pulsip Supply
6/13/90

FORM N-2 MANUFACTURERS DATA REPORT FOR NUCLEAR PART AND APPURTENANCES*

As required by the Provisions of the ASME Code Rules

1. (a) Manufactured by Bingham-Willamette Company, Portland, OR
(Name and address of Manufacturer of part)

(b) Manufactured for Washington Public Power Supply System, Richland, WA
(Name and address of Manufacturer of completed nuclear component)

2. Identification-Manufacturer's Serial No. of Part 11N92 - 3 1 Part 3d. No. 1080

(a) Constructed According to Drawing No. J1756 Drawing Prepared by Bingham-Willamette Company

(b) Description of Part Inspected Mechanical Seal Type RV875B-2

(c) Applicable ASME Code Section III, Edition 1971, Addenda date 1971, Case No. NONE Class 1

3. Remarks To prevent liquids from escaping from pump (OR) parts consist of:
(Brief description of service for which component was designed)

a.) Seal Holder SN 149285. b.) Gland-Under Seal SN 1495283, c.) Thrust Ring SN 1513982-1

Seal Hydrated at 2575 PSI.

Note: Items 4 - 18 not applicable.

We certify that the statements made 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 Design Specification and Stress Report are the responsibility of the part Manufacturer. An appurtenance Manufacturer 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 DEC 8 1983 19 Signed BINGHAM-WILLAMETTE COMPANY By George Williams
(Name and address of Manufacturer)
(Manufacturer)

Certificate of Authorization Expires February 28, 1986 Certificate of Authorization No. N-1655

| CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable) | |
|--|--|
| Design information on file is | <u>N/A</u> |
| Stress analysis report on file is | <u>N/A</u> |
| Design specifications certified by | <u>N/A</u> Prof. Eng. State _____ Reg. No. _____ |
| Stress analysis report certified by | <u>N/A</u> Prof. Eng. State _____ Reg. No. _____ |

| CERTIFICATE OF SIOP 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>Oregon</u> and employed by <u>Department of Commerce</u> | |
| of <u>Commerce</u> have inspected the part of a pressure vessel described in this Manufacturer's Partial Data Report on <u>DEC 8 1983</u> 19, and state that to the best of my knowledge and belief, the Manufacturer 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 this Manufacturer's Partial 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 <u>DEC 8 1983</u> 19 | |
| <u>[Signature]</u> Inspector's Signature | Commission <u>NB 5036 CR500</u> National Board, State, Province and No. |

*Supplemental sheets in form of lists, sketches or drawings may be used provided (1) also in 8 1/2" x 11", (2) information in items 1-3 on this data report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded in item 2, "Remarks".

S.O. 11N92-31
 ITEM 1N2-Sub Data Report
 PAGE 2

S/N 11N92-3

V. Gough
4/13/87

FORM N-2 (back)

Items 4-8 incl. to be completed for single wall vessels, jackets of jacketed vessels, or shells of heat exchangers.

4. Shell: Material _____ T.S. _____ Nominal Thickness _____ in. Corrosion Allowance _____ in. Dia. _____ ft. _____ in. Length _____ ft. _____ in.
(Kind & Spec. No.) (Min. of Range Specified)

5. Seams: Long _____ H.T.¹ _____ R.T. _____ Efficiency _____ %
Girth _____ H.T.¹ _____ R.T. _____ No. of Courses _____

6. Heads: (a) Material _____ T.S. _____ (b) Material _____ T.S. _____
Location Thickness Crown Radius Elliptical Ratio Conical Apex Angle Hemispherical Radius Flat Diameter Side to Press. (Conv. or Conc.)
(Top, bottom, ends)
(a) _____
(b) _____
If removable, bolts used _____ Other fastening _____
(Material, Spec. No., T.S., Size, Number) (Describe or attach sketch)

7. Jacket Closure: _____
(Describe as open end, weld, bar, etc. If bar give dimensions, if bolted, describe or attach)

8. Design pressure² _____ psi at _____ °F Drop Weight _____
Charpy Impact _____ (ft-lb)
at temp. of _____ °F

Items 9 and 10 to be completed for tube sections

9. Tube Sheets: Stationary, Material _____ Dia. _____ Thickness _____ in. Attachment _____
(Kind & Spec. No.) (Subject to pressure) (Welded, Bolted)
Floating, Material _____ Dia. _____ Thickness _____ in. Attachment _____

10. Tubes: Material _____ O.D. _____ in. Thickness _____ in. Attachment _____
Number _____ Type _____
(St. or U)

Items 11-14 incl. to be completed for inner chambers of jacketed vessels, or channels of heat exchangers.

11. Shell: Material _____ T.S. _____ Nominal Thickness _____ in. Corrosion Allowance _____ in. Dia. _____ ft. _____ in. Length _____ ft. _____ in.
(Kind & Spec. No.) (Min. of Range Specified)

12. Seams: Long _____ H.T.¹ _____ R.T. _____ Efficiency _____ %
Girth _____ H.T.¹ _____ R.T. _____ No. of Courses _____

13. Heads: (a) Material _____ T.S. _____ (b) Material _____ T.S. _____
Location Thickness Crown Radius Elliptical Ratio Conical Apex Angle Hemispherical Radius Flat Diameter Side to Press. (Conv. or Conc.)
(a) Top, bottom, ends _____
(b) Channel _____
If removable, bolts used (a) _____ (b) _____ (c) _____ Other fastening _____
(Describe or attach sketch)

14. Design pressure² _____ psi at _____ °F Drop Weight _____
Charpy Impact _____ (ft-lb)
at temp. of _____ °F

Items below to be completed for all vessels where applicable.

15. Safety Valve Outlets: Number _____ Size _____ Location _____

16. Nozzles

| Purpose (Inlet, Outlet, Drain) | Number | Dia. or Size | Type | Material | Thickness | Reinforcement Material | How Attached |
|--------------------------------|--------|--------------|------|----------|-----------|------------------------|--------------|
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

17. Inspection Manholes, No. _____ Size _____ Location _____
Openings: Handholes, No. _____ Size _____ Location _____
Threaded, No. _____ Size _____ Location _____

18. Supports: Skirt _____ Lugs _____ Legs _____ Other _____ Attached _____
(Yes or No) (Number) (Number) (Number) (Description) (Where & How)

¹ If Postweld Heat-Treated.
² List other internal or external pressure with coincident 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 (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



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: 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 Quarip Swip Signed by [Signature]
Plant Technical Manager

Date 7/13/90 Date 7-13-90

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 3/30/90 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.

[Signature] Commissions 9556W
Inspector's Signature National Board, State, and Endorsements

Date 7/13/90



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: 5/26/90
 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: 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 Other 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 Quincy Supis

Signed by [Signature]
Plant Technical Manager

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 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 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.

[Signature]
Inspector's Signature

Commissions 9556W
National Board, State, and Endorsements

Date 5/31/90



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: 6/12/90
 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: 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 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 Rudolf Supb

Signed by [Signature]
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 6/12/90 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.

[Signature]
Inspector's Signature

Commissions 9556 W
National Board, State, and Endorsements

Date 6/12/90

Lakatos Rupt. 4/23/90

FORM NPV-1 (back)

8. Remarks _____

9. Design conditions 1480 psi 100 °F or valve pressure class 600# (1)

10. Cold working pressure 1480 psi at 100°F

11. Hydrostatic test 2225 psi. Disk differential test pressure 1628 psi

CERTIFICATION OF DESIGN

Design Specification certified by David M. Lakatos P.E. State PA Reg. no. 35758-E
Design Report certified by David M. Lakatos P.E. State PA Reg. no. 35758-E

CERTIFICATE OF SHOP COMPLIANCE

We 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.

N Certificate of Authorization No. 1902 Expires 4-25-92

Date 04/12/90 Name Kerotest Mfg., Corp. Signed [Signature]
(N Certificate Holder) (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 Pennsylvania and employed by Hartford Steam Boiler I&I Co. of Hartford, CT have inspected the pump, or valve, described in this Data Report on 4-12, 19 90, 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.

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.

Date 4-12-90 Signed [Signature] Commissions PA 2052N
(Authorized Inspector) (Nat'l. Bd. (incl. endorsements) state or prov. and no.)

(1) For manually operated valves only.

9-17-90



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
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

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

| 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 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 Rudolph Supt Signed by [Signature]
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 6/12/90 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.

[Signature] Commissions 9550 W
Inspector's Signature National Board, State, and Endorsements

Date 6/12/90

CIA-V-31A, S/N AYFI-20
CIA-V-31B, S/N ASLS-62

FORM NPV-1 (back)

Kuldip Singh
4/23/90

8. Remarks _____

9. Design conditions 1480 psi 100 °F or valve pressure class 600# (1)

10. Cold working pressure 1480 psi at 100°F

11. Hydrostatic test 2225 psi. Disk differential test pressure 1628 psi

CERTIFICATION OF DESIGN

Design Specification certified by David M. Lakatos P.E. State PA Reg. no. 35758-E
Design Report certified by David M. Lakatos P.E. State PA Reg. no. 35758-E

CERTIFICATE OF SHOP COMPLIANCE

We 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.

N Certificate of Authorization No. 1902 Expires 4-25-92

Date 04/12/90 Name Kerotest Mfg., Corp Signed [Signature]
IN Certificate Holder (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 Pennsylvania and employed by Hartford Steam Boiler I&T Co. of Hartford, CT

4-12, 19 90, 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.

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.

Date 4-12-90 Signed [Signature] Commissions PA 20521
[Authorized Inspector] [Nat'l. Bd. (incl. endorsements) state or prov. and no.]

(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) Date: 6/12/90
 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: 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 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 Rudolph Guib Signed by [Signature]
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 6/12/90 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.

[Signature] Commissions 9556W
Inspector's Signature National Board, State, and Endorsements

Date 6/12/90

FORM NPV-1 (back)

Kuldip Singh
4/23/90

8. Remarks _____

9. Design conditions 1480 psi 100 °F or valve pressure class 600# (1)
(pressure) (temperature)

10. Cold working pressure 1480 psi at 100°F

11. Hydrostatic test 2225 psi. Disk differential test pressure 1628 psi

CERTIFICATION OF DESIGN

Design Specification certified by David M. Lakatos P.E. State PA Reg. no. 35758-E
Design Report certified by David M. Lakatos P.E. State PA Reg. no. 35758-E

CERTIFICATE OF SHOP COMPLIANCE

We 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.

N Certificate of Authorization No. 1902 Expires 4-25-92

Date 04/12/90 Name Kerotest Mfg., Corp Signed [Signature]
(IN Certificate Holder) (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 Pennsylvania and employed by Hartford Steam Boiler I&I Co. of Hartford, CT have inspected the pump, or valve, described in this Data Report on 4-12, 19 90, 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.

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.

Date 4-12-90 Signed [Signature] Commissions PA2052N
(Authorized Inspector) (Nat'l. Bd. (incl. endorsements) state or prov. and no.)

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

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

- 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 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-41A, Serial No ATZZ-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 Rudolph Singh

Signed by [Signature]
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 4/26/90 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.

[Signature]
Inspector's Signature

Commissions 9556 W
National Board, State, and Endorsements

Date 6/4/90

CIA-V-41B SIN AT22-50

FORM NPV-1 (back)

Ludip Sup 5
4/23/90

8. Remarks _____

9. Design conditions 1480 psi 100 °F or valve pressure class 600# (1)
(pressure) (temperature)

10. Cold working pressure 1480 psi at 100°F

11. Hydrostatic test 2225 psi. Disk differential test pressure 1628 psi

CERTIFICATION OF DESIGN

Design Specification certified by David M. Lakatos P.E. State PA Reg. no. 35758-B
Design Report certified by David M. Lakatos P.E. State PA Reg. no. 35758-B

CERTIFICATE OF SHOP COMPLIANCE

We 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.

N Certificate of Authorization No. 1902 Expires 4-25-92

Date 04/12/90 Name Kerotest Mfg., Corp. Signed [Signature]
(IN Certificate Holder) (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 Pennsylvania and employed by Hartford Steam Boiler I&I Co. of Hartford, CT have inspected the pump, or valve, described in this Data Report on 7-12, 19 90, 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.

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.

Date 4-12-90 Signed [Signature] Commissions PA 20521
(Authorized Inspector) (Nat'l. Bd. Inscr. endorsement) state or prov. and no.

(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
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

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

| 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 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 Ruday Singh

Signed by [Signature]
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 4/26/90 to 5/29/90 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.

[Signature]
Inspector's Signature

Commissions 9556 W
National Board, State, and Endorsements

Date 6/4/90

CIA-V-417, SIN AT22
CIA-V-418, SIN AT22

FORM NPV-1 (back)

Ludwig Supf
4/23/90

8. Remarks _____

9. Design conditions _____ 1480 _____ psi _____ 100 _____ °F or valve pressure class _____ 600# _____ (1)
(pressure) (temperature)

10. Cold working pressure _____ 1480 _____ psi at 100°F

11. Hydrostatic test _____ 2225 _____ psi. Disk differential test pressure _____ 1628 _____ psi

CERTIFICATION OF DESIGN

Design Specification certified by _____ David M. Lakatos _____ P.E. State _____ PA _____ Reg. no. _____ 35758-E
Design Report certified by _____ David M. Lakatos _____ P.E. State _____ PA _____ Reg. no. _____ 35758-E

CERTIFICATE OF SHOP COMPLIANCE

We 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.

N Certificate of Authorization No. _____ 1902 _____ Expires _____ 4-25-92 _____

Date _____ 04/12/90 _____ Name _____ Kerotest Mfg., Corp. _____ Signed _____ [Signature] _____
(IN Certificate Holder) (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 _____ Pennsylvania _____ and employed by _____ Hartford Steam Boiler I&I Co. _____ of _____ Hartford, CT _____ have inspected the pump, or valve, described in this Data Report on _____ 4-12 _____, 19 _____ 90 _____, 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.

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.

Date _____ 4-12-90 _____ Signed _____ [Signature] _____ Commissions _____ PA 30521 _____
(Authorized Inspector) (Nat'l. Bd. Inscr. endorsements) state or prov. and no.

(1) For manually operated valves only.

[Signature]
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) 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: 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)

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 1364

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 Quincy Gump

Signed by [Signature]
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.

[Signature]
Inspector's Signature

Commissions 9556 W
National Board, State, and Endorsements

Date 6/27/90

FORM N-2 NUCLEAR 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

Quail Sup's
6/25/90
Pg 1 of 1

Manufactured and certified by Target Rock Corp., 1966E Broadhollow Rd., E. Farmingdale, NY 11735
(name and address of certificate holder)

Manufactured for Washington Public Power Supply System, Richland, WA 99352-0968
(name and address of purchaser)

3. Location of installation WNP-2, Richland WA, 99352
(name and address)

4. Type 202539-1, Rev. C SA-564 GR 630 140,000 Min. N/A 1986
(drawing no.) (mat'l. spec. no.) (part no.) (CWP) (year built)

5. ASME Code, Section III: 1974 W 1975 1 N/A
(edition) (division) (class) (code case no.)

6. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A Revision N/A Date N/A
(No.)

7. Remarks: Spare Parts for a completed valve assembly (Main Disc. 82M-001)

8. Nom. thickness (in.) N/A Min. design thickness (in.) N/A 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 |
|------------------------------------|---------------------------------------|------------------------------------|--|
| (1) 1351 | N/A | (26) | |
| (2) 1353 | N/A | (27) | |
| (3) 1355 | N/A | (28) | |
| (4) 1364 | N/A | (29) | |
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| (24) | | (49) | |
| (25) | | (50) | |

FOR INFORMATION ONLY

10. Design pressure N/A psi Temp. N/A °F. Hydro. test pressure 4285 PSI at temp. °F. < 100° F
(when applicable)

*Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 X 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 each page.

CERTIFICATE OF DESIGN

Buildup Sump

Design specifications certified by N/A (when applicable) P. E. state N/A Reg. no. N/A
Design report? certified by N/A P. E. state N/A Reg. no. N/A

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that this (these) Part conforms to the rules of construction of the ASME Code, Section III.

NPT Certificate of Authorization no. 1948 Expires 12-9-85

Date 5-5-86 Name Target Rock Corporation Signed G. Abruzzo, Q.A. Manager
(PPT Certificate Holder)

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 New York and employed by Commercial Union Insurance of Boston, Mass. have inspected these items described in this data report on 5/5/86 and state that to the best of my knowledge and belief, the Certificate Holder has fabricated these parts or repairances 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 5/5/86 Signed William J. Heland NEW YORK STATE COMMISSION NO. 228
(Authorized Inspector) COMMISSIONER IN CHARGE, UNIFORM & CODE

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FOR INFORMATION ONLY



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: 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 | 4 | 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



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 1351

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

Dudip Gupta

Signed by

[Signature]

Plant Technical Manager

Date

8/20/90

Date

8-1-90

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 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.

[Signature]
Inspector's Signature

Commissions

9536 W

National Board, State, and Endorsements

Date

8/21/90

FORM N-2 NUCLEAR PARTS AND APPURTENANCES 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

- 1. Manufactured and certified by Target Rock Corp., 1966E Broadhollow Rd., E. Farmingdale, NY 11735
2. Manufactured for Washington Public Power Supply System, Richland, WA 99352-0968
3. Location of installation WNP-2, Richland WA, 99352
4. Type 202539-1, Rev. C SA-564 GR 630 140,000 Min. N/A 1986
5. ASME Code, Section III: 1974 W 1975 1 N/A
6. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A Revision N/A Date N/A
7. Remarks: Spare Parts for a completed valve assembly (Main Disc, 82M-C01)

- 8. Nom. thickness (in.) N/A Min. design thickness (in.) N/A 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.

Table with 4 columns: Part or Appurtenance Serial Number, National Board No. in Numerical Order, Part or Appurtenance Serial Number, National Board Number in Numerical Order. Rows 1-25 and 26-50.

- 10. Design pressure N/A psi Temp. N/A °F. Hydro. test pressure 4285 PSI at temp. °F. < 100°F

*Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 X 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 the 1st sheet.
(4/86)-1 This form (E00040) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017.

Serial Nos 1351, 1353, 1355

1364.

CERTIFICATE OF DESIGN

Buddip Sup 5

Design specifications certified by

N/A

P. E. state N/A

Reg. no. N/A

Design report certified by

N/A

P. E. state N/A

Reg. no. N/A

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that this (these) Part conforms to the rules of construction of the ASME Code, Section III.

NPT Certificate of Authorization no.

1948

Expires

12-31-85

Date

5-5-86

Name

Target Rock Corporation

Signed

G. Abruzzo

G. Abruzzo, Q.A. Manager

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 New York and employed by Commercial Union Insurance of Boston, Mass.

have inspected these items described in this data report on 5/5/86 and state that to the best of my knowledge and belief, the Certificate Holder has fabricated these parts or accessories 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

5/5/86 Signed *William D. Heland*

NEW YORK STATE COMMISSION NO. 2288

Commissioner of Insurance

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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: 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. 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 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 Rudolph Smith

Signed by [Signature]
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 4/20/90 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.

[Signature]
Inspector's Signature

Commissions 9556W
National Board, State, and Endorsements

Date 6/27/90

FORM N-2 NATIONAL 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

Buildup Syts
6/22/90
Pg 1 of 1

1. Manufactured and certified by Target Rock Corp., 1966E Broadhollow Rd., E. Farmingdale, NY 11735
(name and address of certificate holder)

2. Manufactured for Washington Public Power Supply System, Richland, WA 99352-0968
(name and address of purchaser)

3. Location of installation WNP-2, Richland WA, 99352
(name and address)

4. Type 202539-1, Rev. C SA-564 GR 630 140,000 Min. N/A 1986
(drawing no.) (mat'l. spec. no.) (nominal strength) (CRW) (year made)

5. ASME Code, Section III: 1974 W 1975 1 N/A
(edition) (edition) (class) (Code Case No.)

6. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A Revision N/A Date N/A
(date)

7. Remarks: Spare Parts for a completed valve assembly (Main Disc. 82M-001)

8. Nom. thickness (in.) N/A Min. design thickness (in.) N/A 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 |
|---------------------------------------|---|---------------------------------------|--|
| (1) 1351 | N/A | (26) | |
| 1352 | N/A | (27) | |
| 1355 | N/A | (28) | |
| (4) 1354 | N/A | (29) | |
| (5) | | (30) | |
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| (23) | | (48) | |
| (24) | | (49) | |
| (25) | | (50) | |

FOR INFORMATION ONLY

10. Design pressure N/A psi Temp. N/A °F. Hydro. test pressure 4285 PSI at temp. °F. < 100
(when applicable)

*Supplemental information in the form of lists, sketches, or drawings may be used provided (1) also be 8 1/2 X 11, (2) information in Item 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 the form.

(8/86)-1 This form (E00040) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

CERTIFICATE OF DESIGN

1364
Buildup Sur 5

Design specifications certified by N/A (when applicable) P. E. state N/A Reg. no. N/A
Design report certified by N/A P. E. state N/A Reg. no. N/A

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that this (these) Part conform to the rules of construction of the ASME Code, Section III.

NPT Certificate of Authorization no. 1543 Expires 12-9-85

Date 5-5-86 Name Target Rock Corporation (NPT Certificate Holder) Signed G. Abruzzo, Q.A. Manager

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 New York and employed by Commercial Union Insurance of Boston, Mass. have inspected these items described in this data report on 5/5/86 and state that to the best of my knowledge and belief, the Certificate Holder has fabricated these parts or components 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 5/5/86 Signed William J. Albert NEW YORK STATE COMMISSION NO. 2288
Commissioner in Charge, Code & Code
(Must be done in accordance with state or prov. and reg.)

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FOR INFORMATION ONLY



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: 8/20/90
 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: 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



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

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 Rudolf Guip

Signed by [Signature]
Plant Technical Manager

Date 8/20/90

Date 8-21-90

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 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.

[Signature]
Inspector's Signature

Commissions 9556 W
National Board, State, and Endorsements

Date 8/21/90

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

PLAN NO. 2-0586

Cudip Swift
9/3/90.

As Required by the Provisions of the ASME Code, Section III, Division 1
Not To Exceed One Day's Production

Page 1 of 1

1. Manufactured and certified by Target Rock Corp., 1966E Broadhollow Rd., E. Farmingdale, NY 11735
(name and address of certificate holder)
2. Manufactured for Washington Public Power Supply System, Richland, WA 99352-0968
(name and address of purchaser)
3. Location of installation WNP-2, Richland WA, 99352
(name and address)
4. Type 202539-1, Rev. C SA-564 GR 630 140,000 Min. N/A 1986
(drawing no.) (ASME spec. no.) (design strength) (CRS) (year built)
5. ASME Code, Section III: 1974 W 1975 1 N/A
(edition) (division) (class) (code case no.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A Revision N/A Date N/A
(no.)
7. Remarks: Spare Parts for a completed valve assembly (Main Disc, 82M-001)

8. Nom. thickness (in.) N/A Min. design thickness (in.) N/A 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 |
|---------------------------------------|---|---------------------------------------|--|
| (1) 1351 | N/A | (26) | |
| (2) 1353 | N/A | (27) | |
| (3) 1355 | N/A | (28) | |
| (4) 1364 | N/A | (29) | |
| (5) | | (30) | |
| (6) | | (31) | |
| (7) | | (32) | |
| (8) | | (33) | |
| (9) | | (34) | |
| (10) | | (35) | |
| (11) | | (36) | |
| (12) | | (37) | |
| (13) | | (38) | |
| (14) | | (39) | |
| (15) | | (40) | |
| (16) | | (41) | |
| (17) | | (42) | |
| (18) | | (43) | |
| (19) | | (44) | |
| (20) | | (45) | |
| (21) | | (46) | |
| (22) | | (47) | |
| (23) | | (48) | |
| (24) | | (49) | |
| (25) | | (50) | |

10. Design pressure N/A psi Temp. N/A °F. Hydro. test pressure 4285 PSI at temp. °F. < 100°F
(when applicable)

*Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 X 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 the report.

1 0 6 1 2 5 2

Serial Nos 1351, 1353, 1355

Mr. Serial No. See Front

CERTIFICATE OF DESIGN

Culdip Suroy

1364

Design specifications certified by

N/A

P. E. state N/A

Reg. no N/A

Design report certified by

N/A

P. E. state N/A

Reg. no N/A

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that this (these) Part conforms to the rules of construction of the ASME Code, Section III.

Part

NPT Certificate of Authorization no.

1948

Expires

12-31-85

Date

5-5-86

Name

Target Rock Corporation

Signed

G. Abruzzo, Q.A. Manager

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 New York and employed by Commercial Union Insurance of Boston, Mass. have inspected these items described in this data report on 5/5/86 and state that to the best of my knowledge and belief, the Certificate Holder has fabricated these parts or attachments 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 5/5/86

Signed

William D. Heland

NEW YORK STATE COMMISSION NO. 2288

COMMISSIONER IN CHARGE, FIRE & MARINE

2 2 5 7 2 1 0 6 2

FILE IN ORGANIZER



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: 8/6/90
 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: 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 acceptable
 - 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



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 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 Rudip Suple

Signed by [Signature]
Plant Technical Manager

Date 8/6/90

Date 7-7-90

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 5/3/90 to 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.

[Signature]
Inspector's Signature

Commissions 9556 W
National Board, State, and Endorsements

Date 8/8/90

PLAN - No. 2-0587

FORM N-1 CERTIFICATE HOLDERS' DATA REPORT FOR IDENTICAL NUCLEAR PARTS AND APPURTENANCES

Quidip Grip
8/6/90

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

Not To Exceed One Day's Production

Pg. 1 of 1

1. Manufactured and certified by Target Rock Corp., 1965E Broadhollow Rd, E. Farmingdale, NY 11735.

2. Manufactured for Washington Public Power Supply System, Richland, WA

3. Location of installation Washington Nuclear Plant 2, Richland, WA

4. Type 202337-1 Rev. E SA-479 316 75 XSL N/A 1989

5. ASME Code, Section III: 1974 W 75 2 N/A

6. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A Revision N/A Date N/A

7. Remarks: Spare Parts for a completed valve, Models 79TT-001, 85TT-001

8. Nom. thickness (in.) N/A Min. design thickness (in.) N/A 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 |
|---------------------------------------|---|
| (1) 779 | N/A |
| (2) 816 | N/A |
| (3) 788 | N/A |
| (4) 824 | N/A |
| (5) 782 | N/A |
| (6) 760 | N/A |
| (7) 762 | N/A |
| (8) N/A | N/A |
| (9) | |
| (10) | |
| (11) | |
| (12) | |
| (13) | |
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| (22) | |
| (23) | |
| (24) | |
| (25) | |

| Part or Appurtenance Serial Number | National Board Number in Numerical Order |
|---------------------------------------|--|
| (26) | |
| (27) | |
| (28) | |
| (29) | |
| (30) | |
| (31) | |
| (32) | |
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| (44) | |
| (45) | |
| (46) | |
| (47) | |
| (48) | |
| (49) | |
| (50) | |

10. Design pressure N/A psi. Temp. N/A °F. Hydro. test pressure 165 at temp. ASME

*Supplemental information in the form of lists, sketches, or drawings may be used provided (1) that it is 8 1/2 x 11, (2) information in items 2 and 3 of this Data Report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of the first.

779, 816, 788, 824, 782, 760, 762

Quidip Sup's
4/4/89

CERTIFICATE FOR IDENTICAL PARTS AND APPURTENANCES
FORM NO. 1
ASME CODE SECTION III

Not to Exceed One Day's Production

Design specifications certified by _____ P.E. State _____ Reg. no. _____

Design report certified by _____ P.E. State _____ Reg. no. _____

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that this (these) _____ Part
conforms to the rules of construction of the ASME Code, Section III.

NPT Certificate of Authorization No. 1948 Expires 12-9-89

Date 4/4/89 Name Target Rock Corporation Signed E. Bajada
E. Bajada, U.A. Manager

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
New York and employed by Commercial Union Insurance Company
of Boston, Mass. have inspected these items described in this Data Report on 4/4/89 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 4/4/89 Signed William A. Belmont NEW YORK STATE COMMISSION NO. 2288
N.S. COMMISSIONER OF STATE AND LOCAL GOVERNMENTS



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: 9/18/90
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: 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



FORM NIS-2 (Back)

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure 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 Quinn Supb Signed by [Signature]
Plant Technical Manager

Date 9/18/90 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 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.

[Signature] Commissions 9556W
Inspector's Signature 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
 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 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 RFW(1)-4B | WPPSS WPPSS | RFW(1)-4A-P1 RFW(1)-4B-P1 | N/A N/A | N/A N/A | 1983 1983 | Replacement Replacement | Yes, Code Class NF(1) 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)

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 NF-2 Code Data Reports for the following

| Support No | Serial No |
|------------|---------------|
| RFW-148 | NA-2765-005-1 |
| RFW-164 | NA-2765-005-2 |

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 Rudolf Gureb Signed by [Signature]
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 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 4/23/90 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.

[Signature] Commissions 9556 W
Inspector's Signature National Board, State, and Endorsements

Date 6/1/90

FORM NP-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 2-0591

Rudolph Supp
5/2/90

1. Manufactured by NPS INDUSTRIES, INC., 10420 METRIC BOULEVARD, AUSTIN, TX 78758
(Name and address of NPT Certificate holder)
2. Manufactured for WASHINGTON PUBLIC POWER SUPPLY SYSTEM, P.O. BOX 968, RICHLAND, WA 99352
(Name and address of purchaser or owner)
3. Location of Installation WNP-2 OPS WHS COMPLEX, WHS#1 N. PWR. PLANT LOOP, RICHLAND, WA 99352

| (a) Part Serial No. | (b) Canadian Registration No. | (c) Part Drawing No. | (d) Description of Part | (e) Class | (f) National Board No. | (g) Year Built |
|------------------------------|--|-------------------------------|-------------------------------|--------------|---------------------------------|----------------------|
| (1) * | N/A | NPS-130 | MODIFIED | 1 | N/A | 1990 |
| (2) | | REV.1 | SWAY STRUT | | | |
| (3) | | | ASSEMBLY | | | |
| (4) | | | SRM-24M-S0 | | | |
| (5) | | | | | | |
| (6) | | | | | | |
| (7) | | | | | | |
| (8) | | | | | | |
| (9) | | | | | | |
| (10) | | | | | | |

VERIFIED & ACCEPTED [Signature]
5-1-90
LEVEL III R.I. Inspector Date
30 PAGES

CERTIFICATE OF COMPLIANCE

We certify 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, Addenda WINTER 1973, Code Case no. N247.

Date: APRIL 26 1990. Signed: NPS INDUSTRIES, INC. by [Signature] SANDY REYNOLDS
(NPT Certificate Holder)

Our ASME Certificate of Authorization No. N-2689 to use the NPT Symbol expires JULY 12, 1991
(NPT) (Date)

CERTIFICATE OF SHOP INSPECTION

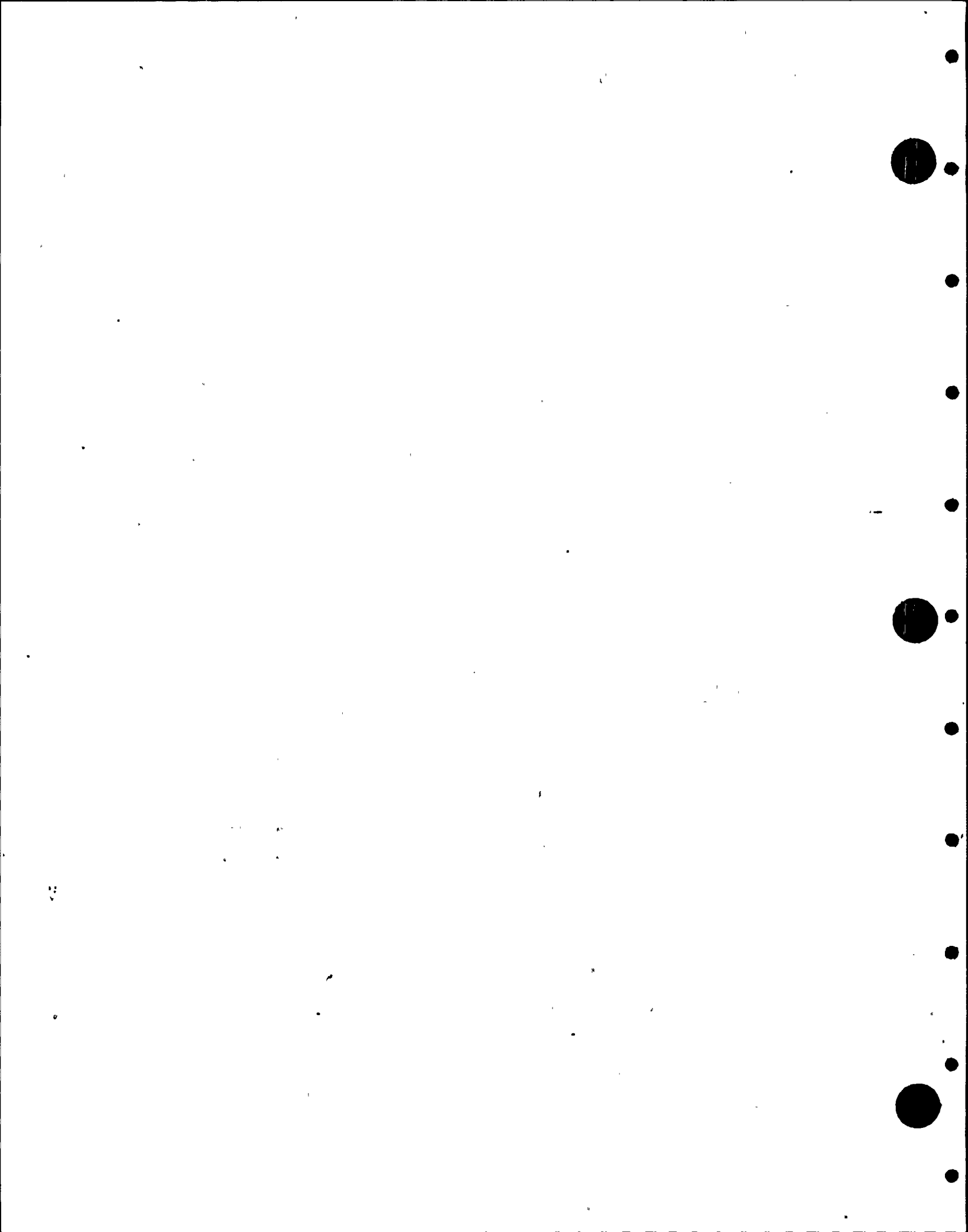
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of TEXAS and employed by COMMERCIAL UNION of BOSTON, MASSACHUSETTS

have inspected the parts for the component supports described in this Data Report on 4-26 1990, and state that to the best of my knowledge and belief the NPT Certificate Holder has constructed these component support parts in accordance with the ASME Code for Nuclear Power Plant Components.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the component supports 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: 4/26/90
Signed: [Signature] Commissions: TEX 803
(Nat'l Board, State, Province, and No.)

*Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8 1/2 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

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: 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



FORM NIS-2 (Back)

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other
Test Pressure: 130 Psig Test Temperature: 70 °F
Component Design Pressure: 300 Psig Temperature: 200 °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 Rudip Singh

Signed by [Signature]
Plant Technical Manager

Date 9/18/90

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 4/26/90 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.

[Signature]
Inspector's Signature

Commissions 9556 W
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
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: 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 None
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 Rudolph Gupton

Signed by [Signature]
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 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 5/01/90 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.

[Signature]
Inspector's Signature

Commissions 9556W
National Board, State, and Endorsements

Date 6/1/90



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 (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 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

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

| 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 | 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



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: 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 Rudip Rishi Signed by [Signature]
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 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 5/28/90 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.

[Signature] Commissions 9556W
Inspector's Signature National Board, State, and Endorsements
Date 6/1/90



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 (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: 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



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: 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 Paulip Supb

Signed by [Signature]
Plant Technical Manager

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 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 5/14/90 to 5/30/90 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.

[Signature]
Inspector's Signature

Commissions 9556 W
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) Date: 5/23/90
 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 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 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 Rudolph Guob Signed by [Signature]
Date 5/30/90 Date 5-30-90
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 5/7/90 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.

[Signature] 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) Date: 6/1/90
 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: 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 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 Rudolph Rupp Signed by [Signature]
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 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 5/23/90 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.

[Signature] Commissions 9556W
Inspector's Signature National Board, State, and Endorsements

Date 6/1/90



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 (WPPSS) Date: 6/4/90
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: 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



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: 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 Quaid Sup's

Signed by [Signature]
Plant Technical Manager

Date 6/4/90

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 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.

[Signature]
Inspector's Signature

Commissions 9556 W
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) Date: 9/18/90
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: 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

| 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)-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



FORM NIS-2 (Back)

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other
Test Pressure: atmospheric Test Temperature: ambient
Component Design Pressure: 45 Psig Temperature: 340 °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 Rudip Luyb

Signed by [Signature]
Plant Technical Manager

Date 9/18/90

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 5/14/90 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.

[Signature]
Inspector's Signature

Commissions 9556 W
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: 6/12/90
 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: 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 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 |
|-------------------|----------------------|-------------------------|--------------------|------------|------------|------------------------------------|--|
| 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



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: 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 Rudolph Suijs Signed by [Signature]
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 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.

[Signature] Commissions 9556W
Inspector's Signature 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

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: 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

Date: 6/25/90

Sheet: 1 of 1

Unit: WNP-2

| 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



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: 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 Rudolph E. Smith

Signed by [Signature]
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 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.

[Signature]
Inspector's Signature

Commissions 9556 W
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) Date: 6/12/90
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) 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



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: 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 Dwain Supb

Signed by [Signature]
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 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.

[Signature]
Inspector's Signature

Commissions 9556 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

1. Owner: Washington Public Power Supply System (WPPSS) Date: 6/1/90
 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: 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



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 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 Rudolf Guib

Signed by [Signature]
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 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.

[Signature]
Inspector's Signature

Commissions 9556 W
National Board, State, and Endorsements

Date 6/1/90

PLAN No. 2.0603
Rudolph Sup?
 5/31/90

FORM N-2 CERTIFICATE HOLDERS' DATA REPORT FOR IDENTICAL NUCLEAR PARTS AND APPURTENANCES*
 As Required by the Provisions of the ASME Code, Section III
 Not To Exceed One Day's Production

1. Manufactured and certified by EW/TP INTERNATIONAL INC. PUMP DIV. LOS ANGELES OPERATIONS 2300 E. VERNON AVE. VERNON CA. 90058
(name and address of NPT Certificate Holder)

2. Manufactured for WASHINGTON PUBLIC POWER SUPPLY SYSTEM NORTH POWER PLANT LOOP RICHLAND, WASHINGTON 99352
(name and address of purchaser)

3. Location of installation WASHINGTON PUBLIC POWER SUPPLY SYSTEM NORTH POWER PLANT LOOP RICHLAND, WASHINGTON 99352
(name and address)

4. Type 75148 REV.B STELLITE #6 N/A N/A 1990
(drawing no.) (mat'l. spec. no.) (tensile strength) (CRN) (year built)

5. ASME Code, Section III: 1971 WINTER 1973 2 N/A
(edition) (addenda date) (class) (Code Case no.)

6. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A Revision N/A Date N/A
(no.)

7. Remarks: EW/TP JOB NO. 891-S-2533 PART NAME- STEM AND DISC ASSEMBLY

HYDROSTATIC TESTING NOT PERFORMED. IDENTIFICATION IS PER NCA-8230 IN LIEU OF NAMEPLATE.

8. Nom. thickness (in.) N/A Min. design thickness (in.) N/A 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 |
|------------------------------------|---------------------------------------|
| (1) 207584-1 | N/A |
| (2) 207584-2 | N/A |
| (3) 207584-3 | N/A |
| (4) | |
| (5) | |
| (6) | |
| (7) | |
| (8) | |
| (9) | |
| (10) | |
| (11) | |
| (12) | |
| (13) | |
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| (17) | |
| (18) | |
| (19) | |
| (20) | |
| (21) | |
| (22) | |
| (23) | |
| (24) | |
| (25) | |

| Part or Appurtenance Serial Number | National Board Number in Numerical Order |
|------------------------------------|--|
| (26) | |
| (27) | |
| (28) | |
| (29) | |
| (30) | |
| (31) | |
| (32) | |
| (33) | |
| (34) | |
| (35) | |
| (36) | |
| (37) | |
| (38) | |
| (39) | |
| (40) | |
| (41) | |
| (42) | |
| (43) | |
| (44) | |
| (45) | |
| (46) | |
| (47) | |
| (48) | |
| (49) | |
| (50) | |

10. Design pressure 3600 psi. Temp. 100 °F. Hydro. test pressure N/A at temp. °F
(when applicable)

*Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 x 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.

5/31/90

Mfr. Serial No.

CERTIFICATION OF DESIGN

Design specifications certified by N/A P.E. State N/A Reg. no. N/A
(when applicable)

Design report* certified by N/A P.E. State N/A Reg. no. N/A
(when applicable)

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that (these) STEM AND DISC ASSEMBLY conforms to the rules of construction of the ASME Code, Section III.

NPT Certificate of Authorization No. N-1131 Expires JUNE 16, 1990

Date 3 May '90 Name BR/IP INTERNATIONAL INC. Signed [Signature]
(NPT Certificate holder) (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 CALIFORNIA and employed by ARKWRIGHT MUTUAL INS. CO. FACTORY MUTUAL SYSTEM of NORFOLK, MASS. have inspected these items described in this Data Report on MAY 5, 1990, 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 5/3/90 Signed [Signature] Commissions 1275 CA.
(Authorized Inspector) (Nat'l Bd. Incl. endorsements) 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) 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: 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



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: 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 Rudolph Gupis

Signed by [Signature]
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 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.

[Signature]
Inspector's Signature

Commissions 9556 W
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
- 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

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

| 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



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: 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 Richard Smith

Signed by [Signature]
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 6/1/90 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.

[Signature]
Inspector's Signature

Commissions 9556 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

- 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: 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

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

| 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



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: 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 Rudolph Smith

Signed by [Signature]
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 6/1/90 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.

[Signature]
Inspector's Signature

Commissions 9556W
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

- 1. Owner: Washington Public Power Supply System (WPPSS) Date: 6/12/90
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: 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(3)-2B | 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



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: 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 Richard Smith

Signed by [Signature]
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 6/1/90 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.

[Signature]
Inspector's Signature

Commissions 9556W
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

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



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: 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 Andrew Smith Signed by [Signature]
Plant Technical Manager

Date 6/28/90 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 6/2/90 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.

[Signature] - Commissions 9556 W
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: 9/13/90

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

Sheet: 1 of 1

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: 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 PI-EFC-X75D | JCI Dragon | PI(1)-4S-X75D GW 1137 | N/A N/A | N/A N/A | 1983 1978 | Repair Replacement | Yes, Code Class 1 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



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: 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 *Rudolph Surp*

Signed by *[Signature]*
Plant Technical Manager

Date 9/13/90

Date 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 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.

[Signature]
Inspector's Signature

Commissions 9556 W
National Board, State, and Endorsements

Date 9/13/90



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: 6/25/90
 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: Process Instrument (PI) System 4
5. (a) Applicable Construction Code ASME Section III: 1974 Edition with Winter 1977 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-X38d | JCI | 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



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: None

L

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 Lewis Signed by [Signature]
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 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.

[Signature] Commissions 9556W
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) Date: 8/6/90
 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: 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-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



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: 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

Prepared by *Rudolph Rupp*

Signed by *[Signature]*
Plant Technical Manager

Date 8/6/90

Date 8-8-90

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 7/12/90 to 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.

[Signature]
Inspector's Signature

Commissions 9550 W
National Board, State, and Endorsements

Date 8/8/90



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)
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 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

Date: 9/10/90
Sheet: 1 of 1
Unit: WNP-2

| 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



FORM NIS-2 (Back)

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure 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 Quincy Supb

Signed by [Signature]
Plant Technical Manager

Date 9/10/90

Date 9-10-90

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.

[Signature]
Inspector's Signature

Commissions 955612
National Board, State, and Endorsements

Date 9/10/90

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

Lindip Supp
9/10/90

1. Fabricated by Metal Bellows Div. of Parker Hannifin Corp. Order No. A12237
200 Science Dr.; Moorpark, Ca. 93021-8010

2. Fabricated for Washington Public Power Supply System Order No. 205895
Richland, WA (Name and Address)

3. Owner Washington Public Power Supply System, Richland, WA 99352 Location of Plant WNP-2 North Power Plant Loop Richland, WA 99352

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 Corp.
(b) National Board No. _____

6. The material, design, construction, and workmanship complies with ASME Code Section III, Class 2
Edition 1980, Addenda Date S'82, 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)

7. Shop Hydrostatic Test 10 Min. @ 470 psi.

8. Description of piping inspected 87357: Bellows; SA249 Type 321 2.00" O.D. x .020" thick
(include - mark no. - material spec. - nom. pipe size - schedule or thickness - length
straight tube. Adaptors; SA479 Type 304 both ends. Stub Ends; SA182 Type 304
- fittings - flanges, etc.)
2" IPS Sch. 40, two. Flanges; SA182 Type 304 2" 300# LJ, two. Total length
45.00". Design pressure 300 PSIG @ 340° F. Design verification by analysis
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

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 [Signature]
(Fabricator)

Certificate of Authorization Expires June 2, 1992 Certificate of Authorization No. N-2801

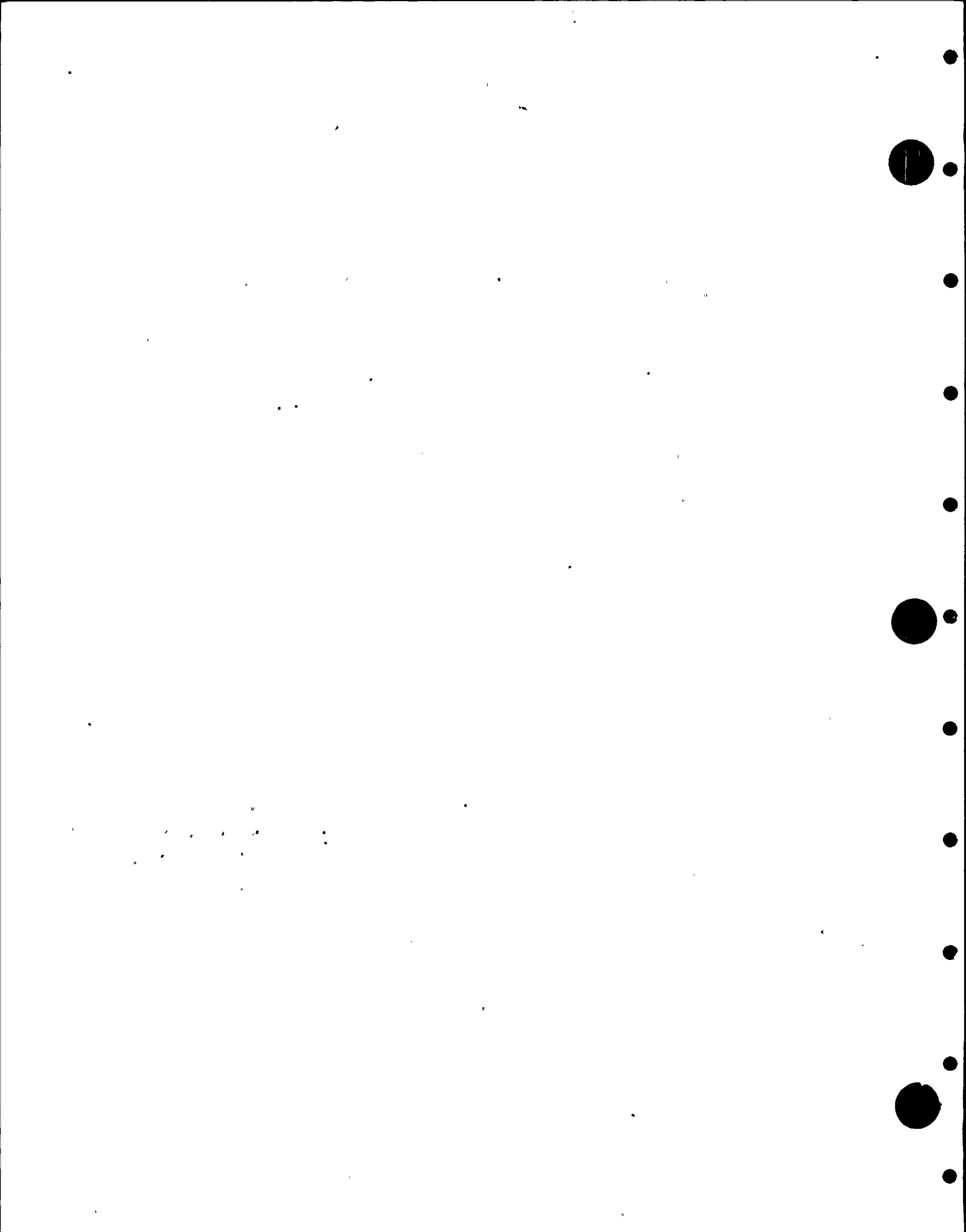
CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of CALIFORNIA and employed by HSB Int of HARTFORD, CT have inspected the piping described in this Data Report on 7-17-90, 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, concerning 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.

Date JUL 17 1990
[Signature] (Inspector) Commissions CA-1536
National Board, State, Province and No.

* Supplemental sheets in form of flats, sketches or drawings may be used provided (1) size is 8 1/2" x 11", (2) information in items 1, 2 and 3 on this data report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded in item 7, "Remarks".





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: 9/10/90
 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: 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



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 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 Rudip Supit Signed by [Signature]
Date 9/10/90 Date 9-10-90
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 7/30/90 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.

[Signature] Commissions 9556 W
Inspector's Signature National Board, State, and Endorsements
Date _____

PLAN NO. 2-0625

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

Quadrup Equip
9/10/90.

As Required by the Provisions of the ASME Code, Section III
Not To Exceed One Day's Production

Pg. 1 of 1

- Manufactured and certified by Target Rock Corp., 1965E Broadhollow Rd, E. Farmingdale, NY 11735
(Name and address of NPT Certificate Holder)
- Manufactured for Washington Public Power Supply System, Richland, WA
(Name and address of purchaser)
- Location of installation Washington Nuclear Plant 2, Richland, WA
(Name and address)
- Type 202337-1 Rev. E SA-479 316 75 KSI N/A 1989
(ASME spec. no.) (ASME spec. no.) (material strength) (class) (year built)
- ASME Code, Section III: 1974 W 75 2 N/A
(edition) (edition date) (class) (Code Case no.)
- Fabricated in accordance with Const. Spec. (Div. 2 only) N/A Revision N/A Date N/A
(no.)
- Remarks: Spare Parts for a completed valve, Models 79TT-001, 83TT-001

- Nom. thickness (in.) N/A Min. design thickness (in.) N/A Dia. ID (ft & in.) N/A Length overall (ft & in.) N/A
- 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 |
|------------------------------------|---------------------------------------|
| (1) 779 | N/A |
| (2) 816 | N/A |
| (3) 788 | N/A |
| (4) 824 | N/A |
| (5) 782 | N/A |
| (6) 760 | N/A |
| (7) 762 | N/A |
| (8) N/A | N/A |
| (9) | |
| (10) | |
| (11) | |
| (12) | |
| (13) | |
| (14) | |
| (15) | |
| (16) | |
| (17) | |
| (18) | |
| (19) | |
| (20) | |
| (21) | |
| (22) | |
| (23) | |
| (24) | |
| (25) | |

| Part or Appurtenance Serial Number | National Board Number in Numerical Order |
|------------------------------------|--|
| (26) | |
| (27) | |
| (28) | |
| (29) | |
| (30) | |
| (31) | |
| (32) | |
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| (44) | |
| (45) | |
| (46) | |
| (47) | |
| (48) | |
| (49) | |
| (50) | |

10. Design pressure N/A psi. Temp. N/A °F Hydro. test pressure 165 at temp. AMB

*Supplemental information in the form of lists, sketches, or drawings may be used provided (1) not less than 8% of (2) information in items 2 and 3 of the 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.

S/N'S 779, 816, 788, 824, 752, 760, 762

David S. S. S.
4/4/90

FOR IDENTICAL CERTIFICATE OF SHOP COMPLIANCE REPORT FOR IDENTICAL PARTS AND APPURTENANCES. SECTION III

See front

DESIGN SPECIFICATIONS CERTIFIED BY _____ P.E. DATE _____ REG. NO. _____

DESIGN REPORT CERTIFIED BY _____ P.E. DATE _____ REG. NO. _____

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that this (these) _____ Part conforms to the rules of construction of the ASME Code, Section III.

NPT Certificate of Authorization No. 1948 Expires 12-9-89

Date 4/4/89 Name Target Rock Corporation Signed E. Bajada
NPT Certificate Holder E. Bajada, G.A. Manager

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 New York and employed by Commercial Union Insurance Company of Boston, MASS. have inspected these items described in this Data Report on 4/4/89 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 4/4/89 Signed William A. Ireland **NEW YORK STATE COMMISSION NO. 2088**
Commissioner William A. Ireland **INSPECTOR**



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: 8/20/90
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: 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



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: 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 Duldeep Singh

Signed by [Signature]
Plant Technical Manager

Date 8/20/90

Date 8-21-90

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 8/1/90 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.

[Signature]
Inspector's Signature

Commissions 9556 W
National Board, State, and Endorsements

Date 8/21/90



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: 8/23/90
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: 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



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: 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 Dwain Suib

Signed by [Signature]
Plant Technical Manager

Date 8/23/90

Date 8-23-90

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 8/6/90 to 8/23/90 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.

[Signature]
Inspector's Signature

Commissions 9556 W
National Board, State, and Endorsements

Date 8/23/90



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 Yes, Code Class 1 System (WPPSS)

Address: 3000 George Washington Way, Richland, WA

Date: 10/19/90

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: 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 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 | 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 |

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 RS.

2) 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 RS.

3) 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



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: Snubber operability test performed 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 Thomas F. Hryc Signed by [Signature]
Plant Technical Manager

Date 10/19/90 Date 10-18-90

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 4/16/90 to 8/7/90 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.

[Signature] Commissions 9556 W
Inspector's Signature National Board, State, and Endorsements

Date 10/19/90



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
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

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

| 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-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 |

7. Description of Work: Deleted snubbers for the following hangers-

| | | | | | | |
|------------------|-------------------|-------------------|-------------------|-------------------|------------------|------------------|
| <u>B22-G001A</u> | <u>MS(18)-2-4</u> | <u>MS(18)-2-1</u> | <u>MS(18)-2-2</u> | <u>MS(18)-2-3</u> | <u>RHR(1)-4A</u> | <u>RHR(1)-4B</u> |
| 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 | | | | | |
| | MSRV-4A-8 | | | | | |
| <u>RHR(1)-4C</u> | | | | | | |
| RHR-281 | | | | | | |



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: 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 Rudolph Sup's FORTFH

Signed by [Signature]
Plant Technical Manager

Date 6/28/90.

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 4/2/90 to 6/27/90 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.

[Signature]
Inspector's Signature

Commissions 9556 W
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
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 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

Date: 9/10/90
Sheet: 1 of 1
Unit: WNP-2

| 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'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 Location | CRD Removed Serial Number | Code Year And Addenda | CRD Replaced Serial Number | Code Year And Addenda | Year Built | Code 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 |
| 10-47 | 7028 | 1971 | A8562 | 74/W75 | 1988 | 1361-2 |
| 10-51 | 6625 | 1971 | 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 | 7327 | 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)

| Core Location | CRD Removed Serial Number | Code Year And Addenda | CRD Replaced Serial Number | Code Year And Addenda | Year Built | Code Case |
|---------------|---------------------------|-----------------------|----------------------------|-----------------------|------------|-----------|
| 38-59 | A916 | 1971 | A8740 | 74/W75 | 1988 | 1361-2 |
| 42-03 | 6282 | 1971 | A8470 | 74/W75 | 1988 | 1361-2 |
| 42-27 | 7346 | 1971 | 6505 | 1971 | 1975 | 1361-1 |

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other None
 Test Pressure: ° Psig Test Temperature: ° °F
 Component Design Pressure: 1250 Psig Temperature: 575 °F

9. Remarks: N-2 Code Data Reports for the replacement CRD's are filed separately from this NIS-2 form

* Reactor Pressure Vessel (RPV) was pressurized to 1005 psig prior to visual examinations. The pressure was maintained above 750 psig during visual examinations. The test temperature corresponds to saturated steam 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 Rudip Singh

Signed [Signature]
Plant Technical Manager

Date 9/10/90

Date 9-10-90

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 3/20/90 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.

[Signature]
Inspector's Signature

Commissions 95516
National Board, State, and Endorsements

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 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



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 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 Rudolph Swartz

Signed [Signature]
Plant Technical Manager

Date 5/19/90

Date 5-21-90

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.

[Signature]
Inspector's Signature

Commissions 9556W
National Board, State, and Endorsements

Date 5/22/90

MWR AS 2905
Welding Equip
5/19/90

FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES
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. 28402
(Name and Address or NPT Certificate holder)
- (b) Manufactured for: WNP-2, RICHLAND, Wa. 99352
(Name and Address of N Certificate holder for completed nuclear component)
2. Identification-Certificate Holders's S/N of Part: A8461 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 Rod Drive for use with reactor.
(Enter description or 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).

DATE: 12/31, 19 88 Signed GE-NPEG-NP&CM-CA By [Signature]
(NPT Certificate holder)

Certificate of Authorization Expires: 6/16/90 Certification of Authorization No.: NPT N-1151

CERTIFICATION OF DESIGN FOR APPURTENANCES

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 BJORN HAABERG Prof. Eng. State CALIF. Reg. No. 15570

DC22A6254 Rev. 0.
Stress analysis report certified by EDWARD YOSHIO Prof. Eng. State CALIF. Reg. No. 4018646

CERTIFICATION 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 CAROLINA 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 12-31 19 88, and state that to the best of my knowledge and belief, the NPT Certificate holder 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.

12-31, 19 88 [Signature] NO. 779.PAWC2L60. OHIO
DATE Inspector's Signature National Board, State, Province and No.

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. "REMARKS"

VERIFIED & ACCEPTED [Signature]
1-15-89
R.I. Inspector 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
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

Date: 5/19/90
Sheet: 1 of 1
Unit: WNP-2

| 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



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 new replacement Cylinder Tube and Flange (CT&F) assembly Serial Number A8655

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 Rudolph Smith

Signed [Signature]
Plant Technical Manager

Date 5/19/90

Date 5-21-90

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 5/6/90 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.

[Signature]
Inspector's Signature

Commissions 9552 W
National Board, State, and Endorsements

Date 5/22/90

MWR AS 2907

Kuldip Singh

5/19/90

FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES
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 Address of NPT Certificate Holder)

(b) Manufactured for: WNP-2, RICHLAND, Wa. 99352.

(Name and Address of N Certificate Holder for completed nuclear component)

Identification-Certificate Holders's S/N of Part: A8655 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.
(Brief description or service for which component was designed)
Hydrostatically tested at 1825 psi. min.

Sheet 1 of 2

I 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 ASME Code Section III. The applicable Designed Specification and Stress Report are not the responsibility of the NPT Certificate Holder for parts. An NPT Certificate 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-NEBG-NF&CM-QA By [Signature]
(NPT Certificate Holder)

Date Of Authorization Expires: 6/16/90 Certification of Authorization No.: NPT N-1151

CERTIFICATION OF DESIGN FOR APPURTENANCES

Design information on file at GE COMPANY, SAN JOSE, CALIFORNIA

Stress analysis report on file at GE COMPANY, SAN JOSE, CALIFORNIA

Design specification certified by BJORN HAABERG Prof. Eng. State CALIF. Reg. No. 15570
22A6253 Rev. 0.

Stress analysis report certified by EDWARD YOSHIO Prof. Eng. State CALIF. Reg. No. M018646
22A6254 Rev. 0.

CERTIFICATION OF SHOP INSPECTION

I, the undersigned, holding a valid commission by the National Board of Boiler and Pressure Vessels 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 Partial Data Report on 5/27 1988, and state that to the best of my knowledge and belief, the NPT Certificate Holder 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.

5/27, 19 88 [Signature] N.C. 723, PA.WC1766, OHIO
Inspector's Signature National Board, State, Province and No.

Additional 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) sheet is numbered and number of sheets is recorded in Item 3. "REMARKS"

MWR AS 2907

S/N A8655

Kuldip Singh
11/21/88

FORM M-2 (back)

Items 4-8 incl. to be completed for single wall vessels, jackets vessels, or shells of heat exchangers.

4. Shell: Material _____ T.S. _____ Nominal Thickness _____ in. Allowance _____ in. Dia. _____ ft. _____ in. Length _____ ft. _____ in.
(Kind & Spec.No.) (Min.ofRange Specified)

5. Seams: Long _____ H.T.¹ _____ R.T. _____ Efficiency _____ %

6. Heads: (a) Material _____ Girth _____ H.T.¹ _____ R.T. _____ No. of Courses _____
T.S. _____ (b)Material _____ T.S. _____

Location (Top Bottom,Ends) Thickness Crown Radius Knuckle Radius Elliptical Ratio Conical Apex Angle Hemispherical Radius Flat Diameter Side to Press. (conv.or conc.)
(a) _____
(b) _____

If removable, bolts used _____ Other fastening _____
(Material, Spec.No., T.S. Size Number) (Describe or attach sketch)

7. Jacket Closure: _____
(Describe as ogee and weld, bar, etc. If bar give dimensions, if bolts, describe or sketch)

8. Design Pressure ² 1250 psi at 575 °F Drop Weight _____
Charpy Impact _____ ft-lb
at temp. of _____ °F

Items 9 and 10 to be completed for tube sections.

9. Tube Sheets: Stationary Mat'l. _____ Dia. _____ Thickness _____ in. Attachment _____
(Kind of Spec. No.) (Subj.to Press.) (Welded, Bolted)
Floating. Material _____ Dia. _____ Thickness _____ in. Attachment _____

10. Tubes: Material _____ O.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 heat exchangers

11. Shell: Material _____ T.S. _____ Nominal Thickness _____ in. Allowance _____ in. Dia. _____ ft. _____ in. Length _____ ft. _____ in.
(Kind&Spec.No.) (Min.ofRange Specified)

12. Seams: Long _____ H.T.¹ _____ R.T. _____ Efficiency _____ %
Girth _____ H.T.¹ _____ R.T. _____ No. of Courses _____

13. Heads (a) Material _____ T.S. _____ (b)Material _____ T.S. _____
Location (a)Top, Bottom, Thickness Crown Radius Knuckle Radius Elliptical Ratio Conical Apex Angle Hemispherical Radius Flat Diameter (Conv.or Conc.)
End (b)Channel _____

If removable, bolts used (a) _____ (b) _____ (c) _____ Other Fastening _____
(Describe or attach sketch)

14. Design pressure² _____ psi at _____ °F Drop Weight _____
Charpy Impact _____ ft-lb
at temp. of _____ °F

Items below to be completed for all vessels where applicable.

15. Safety Valve Outlets: Number _____ Size _____ Location _____

16. Nozzles:
Purpose (Inlet Outlet, Drain) Number Dia or Size Type Material Thickness Reinforcement Material Attached

17. Inspection Openings: Manholes, No. _____ Size _____ Location _____
Handles, No. _____ Size _____ Location _____
Threaded, No. _____ Size _____ Location _____

18. Supports: Shirt _____ Lugs _____ Legs _____ Other _____ Attached _____
(Yes or No) (Number) (Number) (Describe) (Where & How)

¹ If Postweld Heat-Treated.

² List other internal or external pressure with coincident 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 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



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 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 Quidip Sup's

Signed [Signature]
Plant Technical Manager

Date 5/19/90

Date 5-21-90

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.

[Signature]
Inspector's Signature

Commissions 9556 W
National Board, State, and Endorsements

Date 5/22/90

MWR AS 2908

Dudip Swartz
5/19/90

FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES*
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 Address of NPT Certificate holder)
- (b) Manufactured for: WNP-2, RICHLAND, Wa. 99352
(Name and Address of N Certificate holder for completed 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 Code: Section III, Edition 1974, Addenda Data W'75 Case No. 1361-2 Class 1
- 3. REMARKS: Sub-assembly of Control Rod Drive for use with reactor.
(Enter description or 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).

DATE: 12/31, 19 88 Signed GZ-NEEG-NP&M-CA By *[Signature]*
(NPT Certificate holder)

Certificate of Authorization Expires: 6/16/90 Certification of Authorization No.: NPT N-1151

CERTIFICATION OF DESIGN FOR APPURTENANCES

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 BJORN HAABERG Prof. Eng. State CALIF. Reg. No. 15570
DC22A6254 Rev. 0

Stress analysis report certified by EDWARD YOSHIO Prof. Eng. State CALIF. Reg. No. M018646

CERTIFICATION 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 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 12-31 1988, and state that to the best of my knowledge and belief, the NPT Certificate holder 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.

12-31, 1988 *[Signature]* NO 779, PA.WC2L60, OHIO
DATE Inspector's Signature National Board, State, Province and No.

*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) sheet is numbered and number of sheets is recorded in Item 3. "REMARKS"

(10/77)

VERIFIED & ACCEPTED *[Signature]*
1-18-89
R.I. Inspector Date

MW2 AS 2908 S/M A8722
Ludwig Gump
 1/19/89.

FORM M-2 (back)

Items 4-8 Incl. to be completed for single wall vessels, jacketed vessels, or shells of heat exchangers.

4. Shell: Material T.S. Nominal Thickness in. Allowance in. Dia. ft. in. Length ft. in.
 (Kind & Spec.No.) (Min.of Range Specified)

5. Seams: Long H.T.¹ R.T. Efficiency %
 Girth H.T.¹ R.T. No. of Courses

6. Heads: (a) Material T.S. (b) Material T.S.

| Location (Top Bottom, Ends) | Thickness | Crown Radius | Knuckle Radius | Elliptical Ratio | Conical Apex Angle | Hemispherical Radius | Flat Diameter | Side to Press. (conv. or conc.) |
|-----------------------------|-------------------|-------------------|-------------------|-------------------|--------------------|----------------------|-------------------|---------------------------------|
| (a) | <u> </u> | <u> </u> | <u> </u> | <u> </u> | <u> </u> | <u> </u> | <u> </u> | <u> </u> |
| (b) | <u> </u> | <u> </u> | <u> </u> | <u> </u> | <u> </u> | <u> </u> | <u> </u> | <u> </u> |

If removable, bolts used Other fastening
 (Material, Spec.No., T.S. Size Number) (Describe or attach sketch)

7. Jacket Closure:
 (Describe as ogee and weld, bar, etc. If bar give dimensions, if bolts, describe or sketch)

8. Design Pressure ² 1250 psi at 575 °F Drop Weight ft-lb
 Charpy Impact at temp. of °F

Items 9 and 10 to be completed for tube sections.

9. Tube Sheets: Stationary Mat'l. Dia. Thickness in. Attachment
 (Kind of Spec. No.) (Subj. to Press.) (Welded, Bolted)
 Floating. Material Dia. Thickness in. Attachment
 inches

10. Tubes: Material O.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 heat exchangers

11. Shell: Material T.S. Nominal Thickness in. Allowance in. Dia. ft. in. Length ft. in.
 (Kind & Spec.No.) (Min. of Range Specified)

12. Seams: Long H.T.¹ R.T. Efficiency %
 Girth H.T.¹ R.T. No. of Courses

13. Heads (a) Material T.S. (b) Material T.S.

| Location (a) Top, Bottom, End (b) Channel | Thickness | Crown Radius | Knuckle Radius | Elliptical Ratio | Conical Apex Angle | Hemispherical Radius | Flat Diameter | Side to Press. (Conv. or Conc.) |
|---|-------------------|-------------------|-------------------|-------------------|--------------------|----------------------|-------------------|---------------------------------|
| (a) | <u> </u> | <u> </u> | <u> </u> | <u> </u> | <u> </u> | <u> </u> | <u> </u> | <u> </u> |
| (b) | <u> </u> | <u> </u> | <u> </u> | <u> </u> | <u> </u> | <u> </u> | <u> </u> | <u> </u> |

If removable, bolts used (a) (b) (c) Other Fastening
 (Describe or attach sketch)

14. Design pressure² psi at °F Drop Weight ft-lb
 Charpy Impact at temp. of °F

Items below to be completed for all vessels where applicable.

15. Safety Valve Outlets: Number Size Location

16. Nozzles:

| Purpose (Inlet Outlet, Drain) | Number | Dia or Size | Type | Material | Thickness | Reinforcement Material | Attached |
|-------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------------------------|-------------------|
| <u> </u> | <u> </u> | <u> </u> | <u> </u> | <u> </u> | <u> </u> | <u> </u> | <u> </u> |

17. Inspection Openings: Manholes, No. Size Location
 Handles, No. Size Location
 Threaded, No. Size Location

18. Supports: Shirt Lugs Legs Other Attached
 (Yes or No) (Number) (Number) (Describe) (Where & How)

¹ If Postweld Heat-Treated.

² List other internal or external pressure with coincident 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 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 | 6346 | N/A | N/A | 1974 | Replacement | Yes, Class 1 |
| CT&F | GE | A8460 | N/A | N/A | 1988 | Replacement | Yes, Class 1 |

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



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 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 Rudolph Smith Signed [Signature]
Plant Technical Manager

Date 5/19/90 Date 5-21-90

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.

[Signature] Commissions 9556 W
Inspector's Signature National Board, State, and Endorsements

Date 5/22/90

MWR A-5 2910

Ludwig *Swartz*
5/19/90

FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES*
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 Address of NPT Certificate Holder)
(b) Manufactured for: WNP-2, RICHLAND, W.V. 99352
(Name and Address of NPT Certificate Holder for completed nuclear component)
- Identification-Certificate 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 Inspected: CYLINDER TUBE & FLANGE
(c) Applicable ASME Code: Section III, Edition 1974, Addenda Data W'75 Case No. 1361-2 Class 1
- REMARKS: Sub-assembly of Control Rod Drive for use with reactor.
(Brief description or 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).

DATE: 12/31, 19 88 Signed GE-WEEG-NP&CM-CA By *[Signature]*
(NPT Certificate Holder)

Certificate of Authorization Expires: 6/16/90 Certification of Authorization No.: NPT N-1151

CERTIFICATION OF DESIGN FOR APPURTENANCE

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 BJORN HAABERG Prof. Eng. State CALIF. Reg. No. 15570

DC22A6254 Rev. 0.
Stress analysis report certified by EDWARD YOSHIO Prof. Eng. State CALIF. Reg. No. M018646

CERTIFICATION 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 CAROLINA 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 12-31 1988, and state that to the best of my knowledge and belief, the NPT Certificate Holder 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.

12-31, 19 88 *[Signature]* NC 779, PA.WC2L6U, Uru
Inspector's Signature National Board, State, Province and No.

Supplemental sheets in form of lists, sketches or drawing may be used provided (1) size is 3-1/2" 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. "REMARKS"

VERIFIED & ACCEPTED

[Signature]
1-18-89
R.I. Inspector Date

3/7/77

MWR AS 2910

S/N A8460
Curtis Sup's
1/19/89

FORM M-2 (back)

Items 4-8 Incl. to be completed for single wall vessels, jackets vessels, or shells of heat exchangers.

4. Shell: Material T.S. Nominal Thickness in. Corrosion Allowance in. Dia. ft. in. Length ft. in.
(Kind & Spec.No.) (Min.of Range Specified)

5. Seams: Long H.T.¹ R.T. Efficiency %
Girth H.T.¹ R.T. No. of Courses

6. Heads: (a) Material T.S. (b) Material T.S.

| Location (Top Bottom,Ends) | Thickness | Crown Radius | Knuckle Radius | Elliptical Ratio | Conical Apex Angle | Hemispherical Radius | Flat Diameter | Side to Press. (conv. or conc.) |
|----------------------------|-------------------|-------------------|-------------------|-------------------|--------------------|----------------------|-------------------|---------------------------------|
| (a) | <u> </u> | <u> </u> | <u> </u> | <u> </u> | <u> </u> | <u> </u> | <u> </u> | <u> </u> |
| (b) | <u> </u> | <u> </u> | <u> </u> | <u> </u> | <u> </u> | <u> </u> | <u> </u> | <u> </u> |

If removable, bolts used Other fastening
(Material, Spec.No., T.S. Size Number) (Describe or attach sketch)

7. Jacket Closure:
(Describe as ogee and weld, bar, etc. If bar give dimensions, if bolts, describe or sketch)

8. Design Pressure ² 1250 psi at 575 °F Drop Weight ft-lb
Charpy Impact at temp. of °F

Items 9 and 10 to be completed for tube sections.

9. Tube Sheets: Stationary Mat'l. Dia. Thickness in. Attachment
(Kind of Spec. No.) (Subj. to Press.) (Welded, Bolted)

Floating. Material Dia. Thickness in. Attachment
 inches

10. Tubes: Material O.D. in. Thickness or gaps. Number Type
(Str. or U)

Items 11-14 incl. to be completed for inner chambers of jacketed vessels, or channels of heat exchangers

11. Shell: Material T.S. Nominal Thickness in. Corrosion Allowance in. Dia. ft. in. Length ft. in.
(Kind & Spec.No.) (Min. of Range Specified)

12. Seams: Long H.T.¹ R.T. Efficiency %
Girth H.T.¹ R.T. No. of Courses

13. Heads: (a) Material T.S. (b) Material T.S.

| Location (a) Top, Bottom, End | Thickness | Crown Radius | Knuckle Radius | Elliptical Ratio | Conical Apex Angle | Hemispherical Radius | Flat Diameter | Side to Press. (Conv. or Conc.) |
|-------------------------------|-------------------|-------------------|-------------------|-------------------|--------------------|----------------------|-------------------|---------------------------------|
| (a) | <u> </u> | <u> </u> | <u> </u> | <u> </u> | <u> </u> | <u> </u> | <u> </u> | <u> </u> |
| (b) Channel | <u> </u> | <u> </u> | <u> </u> | <u> </u> | <u> </u> | <u> </u> | <u> </u> | <u> </u> |

If removable, bolts used (a) (b) (c) Other Fastening
(Describe or attach sketch)

14. Design pressure² psi at °F Drop Weight ft-lb
Charpy Impact at temp. of °F

Items below to be completed for all vessels where applicable.

15. Safety Valve Outlets: Number Size Location

16. Nozzles:

| Purpose (Inlet Outlet, Drain) | Number | Dia or Size | Type | Material | Thickness | Reinforcement Material | Attached |
|-------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------------------------|-------------------|
| <u> </u> | <u> </u> | <u> </u> | <u> </u> | <u> </u> | <u> </u> | <u> </u> | <u> </u> |

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)

¹ If Postweld Heat-Treated.

² List other internal or external pressures with coincident 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
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

Date: 5/19/90
Sheet: 1 of 1
Unit: WNP-2

| 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 | 7338 A8727 | N/A N/A | N/A N/A | 1975 1989 | Replacement Replacement | Yes, Class 1 Yes, Class 1 |

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



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 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

Prepared by Rudolph Guip

Signed [Signature]
Plant Technical Manager

Date 5/19/90

Date 5-21-90

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 5/6/90 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.

[Signature]
Inspector's Signature

Commissions 9556W
National Board, State, and Endorsements

Date 5/22/90

MWR AS 2913

Kuldip Singh
5/19/90

FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES*
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 Address of NPT Certificate Holder)
(b) Manufactured for: WNP-2, RICHLAND, Wa. 99352
(Name and Address of N Certificate Holder for completed nuclear component)

Identification-Certificate Holders's S/N of Part: A8727 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.
(Brief description of service for which component was designed)
Hydrostatically tested at 1825 psi. min.

Sheet 1 of 2

I 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).

DATE: 2/1, 19 89 Signed GE-NEEG-NF&CA-QA By [Signature]
(NPT Certificate Holder)

Certificate of Authorization Expires: 6/16/90 Certification of Authorization No.: NPT N-1151

CERTIFICATION OF DESIGN FOR APPURTENANCE

Design information on file at GE COMPANY, SAN JOSE, CALIFORNIA
Stress analysis report on file at GE COMPANY, SAN JOSE, CALIFORNIA
22A6253 Rev. 0
Design specification certified by BJORN HAABERG Prof. Eng. State CALIF. Reg. No. 15570
22A6254 Rev. 0.
Stress analysis report certified by EDWARD YOSHIO Prof. Eng. State CALIF. Reg. No. M018646

CERTIFICATION OF SHOP INSPECTION

I, the undersigned, holding a valid commission by the National Board of Boiler and Pressure Vessels 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 Partial Data Report on 2/2 1989, and state that to the best of my knowledge and belief, the NPT Certificate holder has constructed this part in accordance with the ASME Code Section III.
In 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.
2/2, 1989 [Signature] HQ 779, PA.WC2150, OHIO
Inspector's Signature National Board, State, Province and No.

Supplemental sheets in form of Lists, sketches or drawing may be used provided (1) size is 11" X 17", (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. "REMARKS"

VERIFIED & ACCEPTED [Signature]
2-16-89
R.I. Inspector Date

MWR AS 2913

S/N A 8727

Welding Shop

6/13/89

FORM M-2 (back)

Items 4-8 incl. to be completed for single wall vessels, jacketed vessels, or shells of heat exchangers.

4. Shell: Material T.S. Nominal Thickness in. Allowance in. Dis. ft. in. Length ft. in. (Kind & Spec.No.) (Min.of Range Specified)

5. Seams: Long H.T. R.T. Efficiency %

6. Heads: (a) Material T.S. Girth H.T. R.T. No. of Courses (b) Material T.S.

Location (Top Bottom,Ends) Thickness Crown Radius Knuckle Radius Elliptical Ratio Conical Apex Angle Hemispherical Radius Flat Diameter Side to Press. (conv.or conc.)

(a) (b)

If removable, bolts used (Material,Spec.No., T.S. Size Number) Other fastening (Describe or attach sketch)

7. Jacket Closure: (Describe as ogee and weld,bar,etc. If bar give dimensions, if bolts, describe or sketch)

8. Design Pressure 2 1250 psi at 575 °F Drop Weight Charpy Impact ft-lb at temp. of °F

Items 9 and 10 to be completed for tube sections.

9. Tube Sheets: Stationary Mat'l. Dia. Thickness in. Attachment (Kind of Spec. No.) (Subj.to Press.) (Welded, Bolted) Floating. Material Dia. Thickness in. Attachment inches

10. Tubes: Material O.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 heat exchangers

11. Shell: Material T.S. Nominal Thickness in. Allowance in. Dis. ft. in. Length ft. in. (Kind&Spec.No.) (Min.of Range Specified)

12. Seams: Long H.T. R.T. Efficiency % Girth H.T. R.T. No. of Courses

13. Heads (a) Material T.S. (b) Material T.S.

Location (a) Top, Bottom, End Thickness Crown Radius Knuckle Radius Elliptical Ratio Conical Apex Angle Hemispherical Radius Flat Diameter (Conv.or Conc.)

(b) Channel

If removable, bolts used (a) (b) (c) Other fastening (Describe or attach sketch)

14. Design pressure 2 psi at °F Drop Weight Charpy Impact ft-lb at temp. of °F

Items below to be completed for all vessels where applicable.

15. Safety Valve Outlets: Number Size Location

16. Nozzles: Purpose (Inlet Outlet, Drain) Number Dia or Size Type Material Thickness Reinforcement Material Attached

17. Inspection Manholes, No. Size Location Openings: Handless, No. Size Location Threaded, No. Size Location

18. Supports: Shirt Lugs Other Attached (Yes or No) (Number) (Number) (Describe) (Where & How)

1. If Postweld Heat-Treated.

2 List other internal or external pressure with coincident temperature when applicable.



MWR No AS 2914

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

Date: 5/18/90
Sheet: 1 of 1
Unit: WNP-2

| 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 | 6227 A8470 | 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 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



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 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 Quadep Sump

Signed [Signature]
Plant Technical Manager

Date 5/19/90

Date 5-21-90

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.

[Signature]
Inspector's Signature

Commissions 9556 W
National Board, State, and Endorsements

Date 5/22/90

MWR AS2914
Rudolph Swartz
5/19/90

FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES
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 Address of NPT Certificate Holder)
- (b) Manufactured for: WNP-2, RICHLAND, Wa. 99352
(Name and Address of NPT Certificate Holder for completed nuclear component)
- 2. Identification-Certificate Holders' 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 Rod Drive for use with reactor.
(Brief description or 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).

DATE: 12/31, 19 88 Signed GZ-NEEG-NF&CM-CA By [Signature]
(NPT Certificate Holder)

Certificate of Authorization Expires: 6/16/90 Certification of Authorization No.: NPT N-1151

| CERTIFICATION OF DESIGN FOR APPURTENANCE | |
|--|---|
| Design information on file at | <u>GZ COMPANY, SAN JOSE, CALIFORNIA</u> |
| Stress analysis report on file at | <u>GZ COMPANY, SAN JOSE, CALIFORNIA</u> |
| DC22A6253 Rev. 0 | |
| Design specification certified by | <u>BJORN HAABERG</u> Prof. Eng. State <u>CALIF.</u> Reg. No. <u>15570</u> |
| DC22A6254 Rev. 0. | |
| Stress analysis report certified by | <u>EDWARD YOSHIO</u> Prof. Eng. State <u>CALIF.</u> Reg. No. <u>M018646</u> |

| CERTIFICATION 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 <u>NORTH CAROLINA</u> and employed by <u>DEPARTMENT OF LABOR OF STATE OF NORTH CAROLINA</u> have inspected the part of a pressure vessel described in this Partial Data Report on <u>12-31</u> 19 <u>88</u> , and state that to the best of my knowledge and belief, the NPT Certificate Holder 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. | |
| <u>12-31</u> , 19 <u>88</u> | <u>[Signature]</u> |
| DATE | Inspector's Signature |
| | National Board, State, Province and No. <u>MG 779, PA-WC2L60, OHIO</u> |

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. "REMARKS"

(10/77)

| | |
|---------------------|--------------------|
| VERIFIED & ACCEPTED | <u>[Signature]</u> |
| | <u>1-15-89</u> |
| R.I. Inspector | Date |

MWR AS 2914

S/N 78470

Lucip Supls

FORM M-2 (back)

1/19/89

Items 4-8 Incl. to be completed for single wall vessels, jackets vessels, or shells of heat exchangers.

4. Shell: Material T.S. Thickness in. Allowance in Dia. ft. in. Length ft. in. (Kind & Spec.No.) (Min.of Range Specified)

5. Seams: Long H.T.1 R.T. Efficiency %

6. Heads: (a) Material T.S. (b) Material T.S. Girth H.T.1 R.T. No. of Courses

Location (Top Bottom, Ends) Thickness Crown Radius Knuckle Radius Elliptical Ratio Conical Apex Angle Hemispherical Radius Flat Diameter Side to Press. (conv. or conc.)

(a) (b)

If removable, bolts used (Material, Spec.No., T.S. Size Number) Other fastening (Describe or attach sketch)

7. Jacket Closure: (Describe as ogee and weld, bar, etc. If bar give dimensions, if bolts, describe or sketch)

8. Design Pressure 2 1250 psi at 575 °F Drop Weight Charpy Impact ft-lb at temp. of °F

Items 9 and 10 to be completed for tube sections.

9. Tube Sheets: Stationary Mat'l. Dis. Thickness in. Attachment (Kind of Spec. No.) (Subj. to Press.) (Welded, Bolted) Floating. Material Dis. Thickness in. Attachment inches

10. Tubes: Material O.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 heat exchangers

11. Shell: Material T.S. Thickness in. Allowance in. Dis. ft. in. Length ft. in. (Kind & Spec.No.) (Min. of Range Specified)

12. Seams: Long H.T.1 R.T. Efficiency % Girth H.T.1 R.T. No. of Courses

13. Heads (a) Material T.S. (b) Material T.S. Location Crown Radius Knuckle Radius Elliptical Ratio Conical Apex Angle Hemispherical Radius Flat Diameter Side to Press. (Conv. or Conc.)

(a) Top, Bottom, End Thickness 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)

14. Design pressure 2 psi at °F Drop Weight Charpy Impact ft-lb at temp. of °F

Items below to be completed for all vessels where applicable.

15. Safety Valve Outlets: Number Size Location

16. Nozzles: Purpose (Inlet Outlet, Drain) Number Dia or Size Type Material Thickness Reinforcement Material Attached

17. Inspection Manholes, No. Size Location Openings: Handles, No. Size Location Threaded, No. Size Location

18. Supports: Shirt (Yes or No) Lugs (Number) Legs (Number) Other (Describe) Attached (Where & How)

1 If Postweld Heat-Treated.

2 List other internal or external pressure with coincident 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 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 | 6190 | N/A | N/A | 1975 | Replacement | Yes, Class 1 |
| CT&F | GE | A8466 | N/A | N/A | 1988 | Replacement | 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



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 new replacement Cylinder Tube and Flange (CT&F) assembly Serial Number A8466

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 Rudolph Lopez

Signed [Signature]
Plant Technical Manager

Date 5/19/90

Date 5-21-90

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 5/8/90 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.

[Signature]
Inspector's Signature

Commissions 9556W
National Board, State, and Endorsements

Date 5/22/90

MWR AS 2917
Buildup Surveys
5/19/90

FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES*
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. 28402
(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)
- 2. Identification-Certificate Holders'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.
(Brief description or 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).

DATE: 5/27, 19 88 Signed GE-NEEG-NF&CM-QA BY [Signature]
(NPT Certificate Holder)

Certificate Of Authorization Expires: 6/16/90 Certification of Authorization No.: NPT N-1151

CERTIFICATION OF DESIGN FOR APPURTENANCE

- 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 BJORN HAABERG Prof. Eng. State CALIF. Reg. No. 15570
- DC22A6254 Rev. 0.
- Stress analysis report certified by EDWARD YOSHIO Prof. Eng. State CALIF. Reg. No. M018646

CERTIFICATION 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 CAROLINA 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 5/27 1988, and state that to the best of my knowledge and belief, the NPT Certificate holder 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.

DATE 5/27, 19 88 Inspector's Signature [Signature] National Board, State, Province and No. N.C. 723, PA. WC1766, OHIO

* Supplemental sheets in form of lists, sketches or drawing may be used provided (1) size is 8" 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"

MWR AS 2917

S/N A 8466

Ludwig Supp

11/21/88

FORM M-2 (back)

Items 4-8 Incl. to be completed for single wall vessels, jacketed vessels, or shells of heat exchangers.

4. Shell: Material T.S. Nominal Thickness in. Allowance in Dia. ft. in. Length ft. in. (Kind & Spec.No.) (Min.ofRange Specified)

5. Seams: Long H.T.1 R.T. Efficiency %

6. Heads: (a) Material T.S. Girth H.T.1 R.T. No. of Courses (b)Material T.S.

Location (Top Bottom,Ends) Thickness Crown Radius Knuckle Radius Elliptical Ratio Conical Apex Angle Hemispherical Radius Flat Diameter Side to Press. (conv.or conc.)

(a) (b)

If removable, bolts used (Material,Spec.No., T.S. Size Number) Other fastening (Describe or attach sketch)

7. Jacket Closure: (Describe as ogee and weld,bar,etc. If bar give dimensions, if bolts, describe or sketch)

8. Design Pressure 2 1250 psi at 575 F Drop Weight Charpy Impact ft-lb at temp. of

Items 9 and 10 to be completed for tube sections.

9. Tube Sheets: Stationary Mat'l. Dia. Thickness in. Attachment (Kind of Spec. No.) (Subj.to Press.) (Welded, Bolted)

Floating. Material Dia. Thickness in. Attachment inches

10. Tubes: Material O.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 heat exchangers

11. Shell: Material T.S. Nominal Thickness in. Allowance in. Dia. ft. in Length ft. in. (Kind&Spec.No.) (Min.ofRange Specified)

12. Seams: Long H.T.1 R.T. Efficiency % Girth H.T.1 R.T. No. of Courses

13. Heads (a) Material T.S. (b)Material T.S. Location Crown Radius Knuckle Radius Elliptical Ratio Conical Apex Angle Hemispherical Radius Flat Diameter Side to Press. (Conv.or Conc.)

(a)Top, Bottom, Thickness End (b)Channel

If removable, bolts used (a) (b) (c) Other Fastening (Describe or attach sketch)

14. Design pressure 2 psi at F Drop Weight Charpy Impact ft-lb at temp. of F

Items below to be completed for all vessels where applicable.

15. Safety Valve Outlets: Number Size Location

16. Nozzles: Purpose (Inlet Outlet, Drain) Number Dia or Size Type Material Thickness Reinforcement Material Attached

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)

1 If Postweld Heat-Treated.

2 List other internal or external pressure with coincident 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 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 | 7138 | N/A | N/A | 1975 | Replacement | Yes, Class 1 |
| CT&F | GE | A8486 | N/A | N/A | 1988 | Replacement | 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



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 new replacement Cylinder Tube and Flange (CT&F) assembly Serial Number A8486

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 Richard Smith

Signed [Signature]
Plant Technical Manager

Date 5/19/90

Date 5-21-90

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 5/16/90 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.

[Signature]
Inspector's Signature

Commissions 9556 W
National Board, State, and Endorsements

Date 5/22/90

MWK AS 2919
Buildup Supp 5/19/90

FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES*
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

(b) Manufactured for: WNP-2, RICHLAND, Wa. 99352
(Name and Address of NPT Certificate Holder)

(Name and Address of N Certificate Holder for completed nuclear component)

Identification-Certificate Holders's S/N of Part: A8486 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.
(Brief description of service for which component was designed)
Hydrostatically tested at 1825 psi. min.

Sheet 1 of 2

I 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).

DATE: 5/27, 19 88 Signed GE-NDEG-NF&CM-QA By [Signature]
(NPT Certificate Holder)

Date of Authorization Expires: 6/16/90 Certification of Authorization No.: NPT N-1151

CERTIFICATION OF DESIGN FOR APPURTENANCES

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 BJORN HAABERG Prof. Eng. State CALIF. Reg. No. 15570

DC22A6254 Rev. 0.
Stress analysis report certified by EDWARD YOSHIO Prof. Eng. State CALIF. Reg. No. M018646

CERTIFICATION OF SBOP 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 CAROLINA 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 5/27 1988, and state that to the best of my knowledge and belief, the NPT Certificate Holder 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.

DATE: 5/27, 19 88 Inspector's Signature: [Signature] National Board, State, Province and No. N.C. 723, PA.WC1766, OHIO

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. "REMARKS"

MWR AS 2919

S/N A 8486

Ludwig Supf's

11/21/88

FORM M-2 (back)

Items 4-8 incl. to be completed for single wall vessels, jacketed vessels, or shells of heat exchangers.

4. Shell: Material T.S. Nominal Thickness in. Corrosion Allowance in. Dia. ft. in. Length ft. in. (Kind & Spec.No.) (Min.of Range Specified)

5. Seams: Long H.T.1 R.T. Efficiency %

6. Heads: (a) Material T.S. Girth H.T.1 R.T. No. of Courses (b) Material T.S.

Location (Top Bottom, Ends) Thickness Crown Radius Knuckle Radius Elliptical Ratio Conical Apex Angle Hemispherical Radius Flat Diameter Side to Press. (conv. or conc.)

(a) (b)

If removable, bolts used (Material, Spec.No., T.S. Size Number) Other fastening (Describe or attach sketch)

7. Jacket Closure: (Describe as ogee and weld, bar, etc. If bar give dimensions, if bolts, describe or sketch)

8. Design Pressure 2 1250 psi at 575 °F Drop Weight Charpy Impact at temp. of ft-lb °F

Items 9 and 10 to be completed for tube sections.

9. Tube Sheets: Stationary Mat'l. Dia. Thickness in. Attachment (Kind of Spec. No.) (Subj. to Press.) (Welded, Bolted) Floating Material Dia. Thickness in. Attachment inches

10. Tubes: Material O.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 heat exchangers

11. Shell: Material T.S. Nominal Thickness in. Corrosion Allowance in. Dia. ft. in. Length ft. in. (Kind & Spec.No.) (Min. of Range Specified)

12. Seams: Long H.T.1 R.T. Efficiency % Girth H.T.1 R.T. No. of Courses

13. Heads (a) Material T.S. (b) Material T.S. Location Crown Radius Knuckle Radius Elliptical Ratio Conical Apex Angle Hemispherical Radius Flat Diameter Side to Press. (Conv. or Conc.)

(a) Top, Bottom, End (b) Channel

If removable, bolts used (a) (b) (c) Other Fastening (Describe or attach sketch)

14. Design pressure 2 psi at °F Drop Weight Charpy Impact at temp. of ft-lb °F

Items below to be completed for all vessels where applicable.

15. Safety Valve Outlets: Number Size Location

16. Nozzles: Purpose (Inlet Outlet, Drain) Number Dia or Size Type Material Thickness Reinforcement Material Attached

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)

1 If Postweld Heat-Treated.

2 List other internal or external pressures with coincident 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 | GE | 6399 | N/A | N/A | 1975 | Replacement | Yes, Class 1 |
| CT&F | GE | A8518 | N/A | N/A | 1987 | Replacement | 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



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 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 Rudolph Scripps

Signed [Signature]
Plant Technical Manager

Date 5/19/90

Date 5-21-90

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 5/8/90 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.

[Signature]
Inspector's Signature

Commissions 9556 W
National Board, State, and Endorsements

Date 5/22/90

Manufactured & Certified by: GE Company, 2117 Castle Hayne Rd., Wilmington, N.C. 28402

(Name and Address of NPT Certificate Holder)

(b) Manufactured for: WNP-2

(Name and Address of N Certificate Holder for completed nuclear component)

Identification-Certificate Holders's S/N of Part: A8518 Nat'l Bd. No. N/A

Constructed According to Drawing No: 919D258G003 Dwg. Prepared by D. L. Peterson

(b) Description of Part Inspected: CYLINDER TUBE & FLANGE MWR AS 2920

(c) Applicable ASME Code: Section III, Edition 1974, Addenda Date W'75, Case No. 1361-2 Class 1
Sub-assembly of Control Rod Drive for use with reactor.
Hydrostatically tested at 1825 psi. min.

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.

Sheet 1 of 2

I 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).

DATE: 11/10, 1987 Signed GE-NEBG-NF&CH-QA By J. E. Strudensee
(NPT Certificate Holder)

Certificate Of Authorization Expires: 6/16/90 Certification of Authorization No.: NPT N-1151

CERTIFICATION OF DESIGN FOR APPURTENANCE

Design information on file at GE COMPANY, SAN JOSE, CALIFORNIA

Stress analysis report on file at GE COMPANY, SAN JOSE, CALIFORNIA

SA Rev. 0

Design Specification certified by BJORN HAABERG Prof. Eng. State CALIF. Reg. No. 15570

2A6254 Rev. 0.

Stress analysis report certified by EDWARD YOSHIO Prof. Eng. State CALIF. Reg. No. M018646

CERTIFICATION OF SHOP INSPECTION

I, the undersigned, holding a valid commission by the National Board of Boiler and Pressure Vessels 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 Partial Data Report on 11-10 1987, and state that to the best of my knowledge and belief, the NPT Certificate Holder 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.

11-10, 1987 J. F. Pender
Inspector's Signature

NC-779-PAWE2L60 OH10
National Board, State, Province and No.

Additional 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. "REMARKS"

VERIFIED & ACCEPTED D. L. Peterson
1-5-88
N.P.T. Inspector R 13

Manufac
(b)

Items 1-8 incl. to be completed for single well vessels, jackets vessels, or shells of heat exchangers

4. Shell: Material _____ T.S. _____ Nominal Thickness _____ in. Corrosion Allowance _____ in. Dia. _____ ft. _____ in. Length _____ ft.
(Kind & Spec.No.) (Min.of Range Specified)
5. Seams: Long _____ H.T.¹ _____ R.T. _____ Efficiency _____ %
Girth _____ H.T.¹ _____ R.T. _____ No. of Courses S/N A 8518
6. Heads: (a) Material _____ T.S. _____ (b) Material _____ T.S. _____
Location (Top _____ Bottom, Ends) Thickness _____ Crown Radius _____ Knuckle Radius _____ Elliptical Ratio _____ Conical Apex Angle _____ Hemispherical Radius _____ Flat Diameter _____ Side to Press. (conv. or conc.)
(a) _____ (b) _____
If removable, bolts used _____ Other fastening _____
(Material, Spec.No., T.S. Size Number) (Describe or attach sketch).
7. Jacket Closures: _____
(Describe as ogee and weld, bar, etc. If bar give dimensions, if bolts, describe or sketch)
8. Design Pressure ² 1250 psi at 575 °F Drop Weight _____ Charpy Impact _____ ft-lb at temp. of _____ °F

Items 9 and 10 to be completed for tube sections.

9. Tube Sheets: Stationary Mat'l. _____ Dia. _____ Thickness _____ in. Attachment _____
(Kind of Spec. No.) (Subj. to Press.) (Welded, Bolted)
Floating. Material _____ Dia. _____ Thickness _____ in. Attachment _____
Inches
10. Tubes: Material _____ Q.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 heat exchangers

11. Shell: Material _____ T.S. _____ Nominal Thickness _____ in. Corrosion Allowance _____ in. Dia. _____ ft. _____ in. Length _____ ft. _____ in.
(Kind & Spec.No.) (Min. of Range Specified)
12. Seams: Long _____ H.T.¹ _____ R.T. _____ Efficiency _____ %
Girth _____ H.T.¹ _____ R.T. _____ No. of Courses _____
13. Heads (a) Material _____ T.S. _____ (b) Material _____ T.S. _____
Location (a) Top, Bottom, Thickness _____ Crown Radius _____ Knuckle Radius _____ Elliptical Ratio _____ Conical Apex Angle _____ Hemispherical Radius _____ Flat Diameter _____ Side to Press. (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 at temp. of _____ °F
14. Design pressure ² _____ psi at _____ °F at temp. of _____ °F

Items below to be completed for all vessels where applicable.

15. Safety Valve Outlets: Number _____ Size _____ Location _____
16. Nozzles:
Purpose (Inlet _____ Outlet, Drain) Number _____ Dia or Size _____ Type _____ Material _____ Thickness _____ Reinforcement Material _____ Attached _____
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)

¹ If Postweld Heat-Treated.
² List other internal or external pressure with coincident 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
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

Date: 5/19/90
Sheet: 1 of 1
Unit: WNP-2

| 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 | 6723 | N/A | N/A | 1975 | Replacement | Yes, Class 1 |
| CT&F | GE | A8609 | N/A | N/A | 1988 | Replacement | 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



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 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 Dudley Supt

Signed [Signature]
Plant Technical Manager

Date 5/19/90

Date 5-21-90

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 5/7/90 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.

[Signature]
Inspector's Signature

Commissions 9556 W
National Board, State, and Endorsements

Date 5/22/90

MWR. AS 2924

Dudley Supt

5/19/90

FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES*
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. 28402
(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)
- 2. Identification-Certificate Holders's S/N of Part: A8609 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 Rod Drive for use with reactor.
(Brief description or 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).

DATE: 5/27, 19 88 Signed GE-NBEG-NF&CM-QA By *[Signature]*
(NPT Certificate Holder)

Certificate of Authorization Expires: 6/16/90 Certification of Authorization No.: NPT N-1151

CERTIFICATION OF DESIGN FOR APPURTENANCES

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 BJORN HAABERG Prof. Eng. State CALIF. Reg. No. 15570
DC22A6254 Rev. 0.

Stress analysis report certified by EDWARD YOSHIO Prof. Eng. State CALIF. Reg. No. M018646

CERTIFICATION 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 CAROLINA 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 5/27 19 88, and state that to the best of my knowledge and belief, the NPT Certificate holder 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.

5/27, 19 88 *[Signature]* N.C. 723, PA. WC1766, OHIO
DATE Inspector's Signature National Board, State, Province and No.

Elemental 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) each sheet is numbered and number of sheets is recorded in Item 3. "REMARKS"

MWR AS 2924

S/N A 8609

Euldrp Sup's

11/21/88

FORM M-2 (back)

Items 4-8 incl. to be completed for single wall vessels, jackets vessels, or shells of heat exchangers.

4. Shell: Material T.S. Nominal Thickness in. Allowance in. Dia. ft. in. Length ft. in.
(Kind & Spec.No.) (Min.of Range Specified)

5. Seams: Long H.T.¹ R.T. Efficiency %
Girth H.T.¹ R.T. No. of Courses

6. Heads: (a) Material T.S. (b) Material T.S.
Location (Top Bottom, Ends) Thickness Crown Radius Knuckle Radius Elliptical Ratio Conical Apex Angle Hemispherical Radius Flat Diameter Side to Press. (conv. or conc.)
(a)
(b)
If removable, bolts used Other Fastening
(Material, Spec.No., T.S. Size Number) (Describe or attach sketch)

7. Jacket Closure:
(Describe as ogee and weld, bar, etc. If bar give dimensions, if bolts, describe or sketch)

8. Design Pressure ² 1250 psi at 575 °F Drop Weight
Charpy Impact ft-lb at temp. of °F

Items 9 and 10 to be completed for tube sections.

9. Tube Sheets: Stationary Mat'l. Dia. Thickness in. Attachment
(Kind of Spec. No.) (Subj. to Press.) (Welded, Bolted)
Floating. Material Dia. Thickness in. Attachment
Inches

10. Tubes: Material O.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 heat exchangers

11. Shell: Material T.S. Nominal Thickness in. Allowance in. Dia. ft. in. Length ft. in.
(Kind & Spec.No.) (Min. of Range Specified)

12. Seams: Long H.T.¹ R.T. Efficiency %
Girth H.T.¹ R.T. No. of Courses

13. Heads (a) Material T.S. (b) Material T.S.
Location (a) Top, Bottom, Thickness Crown Radius Knuckle Radius Elliptical Ratio Conical Apex Angle Hemispherical Radius Fat Diameter (Conv. or Conc.)
End
(b) Channel
If removable, bolts used (a) (b) (c) Other Fastening
(Describe or attach sketch)

14. Design pressure ² psi at °F Drop Weight
Charpy Impact ft-lb at temp. of °F

Items below to be completed for all vessels where applicable.

15. Safety Valve Outlets: Number Size Location

16. Nozzles:
Purpose (Inlet Outlet, Drain) Number Dia or Size Type Material Thickness Reinforcement Material Attached

17. Inspection Manholes, No. Size Location
Openings: Handles, No. Size Location
Threaded, No. Size Location

18. Supports: Shirt Legs Legs Other Attached
(Yes or No) (Number) (Number) (Describe) (Where & How)

¹ If Postweld Heat-Treated.

² List other internal or external pressure with coincident 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
- 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

Date: 5/19/90
Sheet: 1 of 1
Unit: WNP-2

| 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 A8508, 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. 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 new replacement Cylinder Tube and Flange (CT&F) assembly 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 Quilap Guib

Signed [Signature]
Plant Technical Manager

Date 5/19/90

Date 5-21-90

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 5/7/90 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.

[Signature]
Inspector's Signature

Commissions 9556 W
National Board, State, and Endorsements

Date 5/22/90

1. Manufactured & Certified by: GE Company, 2117 Castle Hayne Rd., Wilmington, N.C. 28402
(Name and Address of NPT Certificate Holder)
(b) Manufactured for: WNP-2
(Name and Address of N Certificate Holder for completed nuclear component)

2. Identification-Certificate Holders's S/N of Part: A8508 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 Rod Drive for use with reactor.
(Brief description of service for which component was designed)
Hydrostatically tested at 1825 psi. min.

*Sheet 1 of 2 LWR AS 2925

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).

DATE: 11/10, 19 87 Signed GE-NEBG-NF&CH-OA By J. Ettrudinn
(NPT Certificate Holder)

Certificate Of Authorization Expires: 6/16/90 Certification of Authorization No.: NPT N-1151

CERTIFICATION OF DESIGN FOR APPURTENANCE

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 BJORN HAABERG Prof. Eng. State CALIF. Reg. No. 15570
DC22A6254 Rev. 0.
Stress analysis report certified by EDWARD YOSHIO Prof. Eng. State CALIF. Reg. No. MO18646

CERTIFICATION 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 CAROLINA and employed by DEPARTMENT OF LABOR STATE OF NORTH CAROLINA have inspected the part of a pressure vessel described in this Partial Data Report on 11-10 1987, and state that to the best of my knowledge and belief, the NPT Certificate Holder 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, property damages or a loss of any kind arising from or connected with this inspection.
11-10, 1987 J.P. Shandley NC-TT9.P.A.WC2L60 OHIO
Inspector's Signature National Board, State, Province and No.

Supplemental sheets in form of lists, sketches or drawing may be used provided (1) size is 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. "REMARKS"

VERIFIED & ACCEPTED R.I. Miller
1-5-88
R.I. Inspector Date

Items 4-10 to be completed for single wall vessels, jackets vessels, or shells of heat exchangers

Manuf.

4. Shell: Material _____ T.S. _____ Nominal Thickness _____ in. Allowance _____ in. Dia. _____ ft. _____ in. Length _____ ft. _____ in.
(Kind & Spec.No.) (Min.of Range Specified)
5. Seams: Long _____ H.T.¹ _____ R.T. _____ Efficiency _____ %
Girth _____ H.T.¹ _____ R.T. _____ No. of Courses _____
6. Heads: (a) Material _____ T.S. _____ (b) Material _____ T.S. _____
Location (Top Bottom, Ends) Thickness _____ Crown Radius _____ Knuckle Radius _____ Elliptical Ratio _____ Conical Apex Angle _____ Hemispherical Radius _____ Flat Diameter _____ Side to Press. _____
(a) _____
(b) _____
If removable, bolts used _____ Other fastening _____
(Material, Spec.No., T.S. Size Number) (Describe or attach sketch)
7. Jacket Closures: _____
(Describe as ogee and weld, bar, etc. If bar give dimensions, if bolts, describe or sketch)
8. Design Pressure ² _____ psi at _____ °F Drop Weight _____
Charpy Impact _____ ft-lb
at temp. of _____ °F

Items 9 and 10 to be completed for tube sections.

9. Tube Sheets: Stationary Mat'l. _____ Dia. _____ Thickness _____ in. Attachment _____
(Kind of Spec. No.) (Subj. to Press.) (Welded, Bolted)
Floating. Material _____ Dia. _____ Thickness _____ in. Attachment _____
inches
10. Tubes: Material _____ Q.O. _____ 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 heat exchangers

11. Shell: Material _____ T.S. _____ Nominal Thickness _____ in. Allowance _____ in. Dia. _____ ft. _____ in. Length _____ ft. _____ in.
(Kind & Spec.No.) (Min. of Range Specified)
12. Seams: Long _____ H.T.¹ _____ R.T. _____ Efficiency _____ %
Girth _____ H.T.¹ _____ R.T. _____ No. of Courses _____
13. Heads (a) Material _____ T.S. _____ (b) Material _____ T.S. _____
Location (a) Top, Bottom, End (b) Channel
Thickness _____ Crown Radius _____ Knuckle Radius _____ Elliptical Ratio _____ Conical Apex Angle _____ Hemispherical Radius _____ Flat Diameter _____ Side to Press. _____
If removable, bolts used (a) _____ (b) _____ (c) _____ Other Fastening _____
(Describe or attach sketch)
14. Design pressure ² _____ psi at _____ °F Drop Weight _____
Charpy Impact _____ ft-lb
at temp. of _____ °F

Items below to be completed for all vessels where applicable.

15. Safety Valve Outlets: Number _____ Size _____ Location _____
16. Nozzles:
Purpose (Inlet Outlet, Drain) Number Dia or Size Type Material Thickness Reinforcement Material Attached
17. Inspection Openings: Manholes, No. _____ Size _____ Location _____
Handles, No. _____ Size _____ Location _____
Threaded, No. _____ Size _____ Location _____
18. Supports: Shirt _____ Lugs _____ Legs _____ Other _____ Attached _____
(Yes or No) (Number) (Number) (Describe) (Where & How)

¹ If Postweld Heat-Treated.

² List other internal or external pressure with coincident 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 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 ID. | 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



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 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 Rudolph Smith

Signed [Signature]
Plant Technical Manager

Date 5/19/90

Date 5-21-90

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 5/7/90 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.

[Signature]
Inspector's Signature

Commissions 9556 W
National Board, State, and Endorsements

Date 5/22/90

MWR AS 2926

Dudip Supls

5/19/90

FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES
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 Address of NPT Certificate Holder)
(b) Manufactured for: WNP-2, RICHLAND, Wa. 99352
(Name and Address of N Certificate Holder for completed nuclear component)
 - Identification-Certificate Holders's S/N of Part: A8577 Nat'l Bd. No. N/A
 - Constructed According to Drawing No: 919D258G003 Dwg. Prepared by D. L. Peterson
 - Description of Part Inspected: CYLINDER TUBE & FLANGE
 - Applicable ASME Code: 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 or 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).

DATE: 12/31, 19 88 Signed GE-NREG-NF&CM-QA By *[Signature]*
(NPT Certificate Holder)

Certificate Of Authorization Expires: 6/16/90 Certification of Authorization No.: NPT N-1151

CERTIFICATION OF DESIGN FOR APPURTENANCE

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 BJORN HARBURG Prof. Eng. State CALIF. Reg. No. 15570
DC22A6254 Rev. 0.

Stress analysis report certified by EDWARD YOSHIO Prof. Eng. State CALIF. Reg. No. M018646

CERTIFICATION 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 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 12-31 19 88, and state that to the best of my knowledge and belief, the NPT Certificate Holder 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.

12-31, 1988 *[Signature]* ND 779, PA. WC2160, OHIO
DATE Inspector's Signature National Board, State, Province and No.

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. "REMARKS"

(10/77)

VERIFIED & ACCEPTED *[Signature]*
1-17-89
R.I. Inspector Date

MWR AS 2926

S/N A 8577
Lularp Supb
1/19/89

FORM M-2 (back)

Items 4-8 Incl. to be completed for single wall vessels, jackets vessels, or shells of heat exchangers.

4. Shell: Material T.S. Nominal Thickness in. Allowance in. Dia. ft. in. Length ft. in.
(Kind & Spec.No.) (Min.of Range Specified)
5. Seams: Long H.T.¹ R.T. Efficiency %
Girth H.T.¹ R.T. No. of Courses
6. Heads: (a) Material T.S. (b) Material T.S.
Location (Top Bottom, Ends) Thickness Crown Radius Knuckle Radius Elliptical Ratio Conical Apex Angle Hemispherical Radius Flat Diameter Side to Press. (conv. or conc.)
(a)
(b)
If removable, bolts used Other fastening
(Material, Spec.No., T.S. Size Number) (Describe or attach sketch)
7. Jacket Closure:
(Describe as: ogee and weld, bar, etc. If bar give dimensions, if bolts, describe or sketch)
8. Design Pressure ² 1250 psi at 575 °F Drop Weight ft-lb
Charpy Impact ft-lb at temp. of °F

Items 9 and 10 to be completed for tube sections.

9. Tube Sheets: Stationary Mat'l. Dia. Thickness in. Attachment
(Kind of Spec. No.) (Subj. to Press.) (Welded, Bolted)
Floating Material Dia. Thickness in. Attachment
inches
10. Tubes: Material O.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 heat exchangers

11. Shell: Material T.S. Nominal Thickness in. Allowance in. Dia. ft. in. Length ft. in.
(Kind & Spec.No.) (Min. of Range Specified)
12. Seams: Long H.T.¹ R.T. Efficiency %
Girth H.T.¹ R.T. No. of Courses
13. Heads (a) Material T.S. (b) Material T.S.
Location (a) Top, Bottom, Thickness Crown Radius Knuckle Radius Elliptical Ratio Conical Apex Angle Hemispherical Radius Flat Diameter Side to Press. (Conv. or Conc.)
End
(b) Channel
If removable, bolts used (a) (b) (c) Other Fastening
(Describe or attach sketch)
Drop Weight ft-lb
Charpy Impact ft-lb at temp. of °F
14. Design pressure ² psi at °F at temp. of °F

Items below to be completed for all vessels where applicable.

15. Safety Valve Outlets: Number Size Location
16. Nozzles:
Purpose (Inlet Outlet, Drain) Number Dia or Size Type Material Thickness Reinforcement Material Attached
17. Inspection Openings: Manholes, No. Size Location
Handles, No. Size Location
Threaded, No. Size Location
18. Supports: Shirt Logs Lags Other Attached
(Yes or No) (Number) (Number) (Describe) (Where & How)

¹ If Postweld Heat-Treated.

² List other internal or external pressure with coincident temperatures 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 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 CT&F | GE GE | A916 A8530 | 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 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. 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 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 Rudolph Quip Signed [Signature]
Date 5/19/90 Date 5-21-90
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 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.

[Signature] Commissions 9556 W
Inspector's Signature National Board, State, and Endorsements
Date 5/22/90

Manufactured & Certified by: GE Company, 2117 Castle Hayne Rd., Wilmington, N.C. 28402
(Name and Address of NPT Certificate Holder)

(b) Manufactured for: WNP-2
(Name and Address of N Certificate Holder for completed nuclear component)

1. Identification-Certificate Holders's S/N of Part: A8530 Nat'l Bd. No. N/A

(a) Constructed According to Drawing-No: 9190258G003 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.
(Brief description of service for which component was designed)
Hydrostatically tested at 1825 psi. min.

Sheet 1 of 2 MWR AS 2930

I 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 ASME Code Section III. The applicable Designed Specification and Stress Report are not the responsibility of the NPT certificate Holder for parts. An NPT Certificate 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: 11/10, 19 87 Signed GE-NEBG-NF&CH-0A By J. E. Hruska
(NPT Certificate Holder)

Certificate of Authorization Expires: 6/16/90 Certification of Authorization No.: NPT N-1151

CERTIFICATION OF DESIGN FOR APPURTENANCE

Information on file at GE COMPANY, SAN JOSE, CALIFORNIA
Stress analysis report on file at GE COMPANY, SAN JOSE, CALIFORNIA
Design specification certified by BJORN HAABERG Prof. Eng. State CALIF. Reg. No. 15570
Stress analysis report certified by EDWARD YOSHIO Prof. Eng. State CALIF. Reg. No. M018646

CERTIFICATION OF SHOP INSPECTION

I, the undersigned, holding a valid commission by the National Board of Boiler and Pressure Vessels 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 Partial Data Report on 19, and state that to the best of my knowledge and belief, the NPT Certificate Holder 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.

11-10, 19 87 J. E. Hruska NC. 779. PA. WC 2460 OHIO
Inspector's Signature National Board, State, Province and No.

Supplemental sheets in form of lists, sketches or drawing may be used provided (1) size is 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. "REMARKS"

VERIFIED & ACCEPTED D. J. Miller
1-5-88
R.I. Inspector Date

Manufa (b)

Items 4-10 to be completed for single wall vessels, jackets vessels, or shells of heat exchangers

4. Shell: Material T.S. Nominal Thickness in. Allowance in Dia. ft. in. Length ft. in. Corrosion (Kind & Spec.No) (Min.of Range Specified)
5. Seams: Long H.T.¹ R.T. Efficiency 2
6. Heads: (a) Material T.S. Girth H.T.¹ MWX AS 2930 R.T. No. of Courses S/W A8530 (b) Material T.S. Location (Top Bottom, Ends) Thickness Crown Radius Knuckle Radius Elliptical Ratio Conical Apex Angle Hemispherical Radius Flat Diameter Side to Press. (conv. or conc.)
- (a) (b)
- If removable, bolts used Other fastening (Material, Spec.No., T.S. Size Number) (Describe or attach sketch)
7. Jacket Closures: (Describe as gage and weld, bar, etc. If bar give dimensions, if bolts, describe or sketch)
8. Design Pressure ² 1250 psi at 575 °F Drop Weight Charpy Impact ft-lb at temp. of °F

Items 9 and 10 to be completed for tube sections.

9. Tube Sheets: Stationary Mat'l. Dia. Thickness in. Attachment (Kind of Spec. No.) (Subj. to Press.) (Welded, Bolted)
- Floating. Material Dia. Thickness in. Attachment inches
10. Tubes: Material O.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 heat exchangers

11. Shell: Material T.S. Nominal Thickness in. Allowance in Dia. ft. in Length ft. in. Corrosion (Kind & Spec.No.) (Min.of Range Specified)
12. Seams: Long H.T.¹ R.T. Efficiency 2
- Girth H.T.¹ R.T. No. of Courses
13. Heads (a) Material T.S. (b) Material T.S.
- Location (a) Top, Bottom, End Thickness Crown Radius Knuckle Radius Elliptical Ratio Conical Apex Angle Hemispherical Radius Flat Diameter Side to Press (Conv. or Conc.)
- (b) Channel
- If removable, bolts used (a) (b) (c) Other Fastening (Describe or attach sketch)
14. Design pressure ² psi at °F Drop Weight Charpy Impact ft-lb at temp. of °F

Items below to be completed for all vessels where applicable.

15. Safety Valve Outlets: Number Size Location
16. Nozzles:
- | Purpose (Inlet Outlet, Drain) | Number | Dia or Size | Type | Material | Thickness | Reinforcement Material | Attached |
|-------------------------------|---------|-------------|---------|----------|-----------|------------------------|----------|
| <u></u> | <u></u> | <u></u> | <u></u> | <u></u> | <u></u> | <u></u> | <u></u> |
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)

¹ If Postweld Heat-Treated.

² List other internal or external pressure with coincident 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 (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: 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-

| | |
|------------------|------------------|
| <u>RFW(1)-4A</u> | <u>RFW(1)-4B</u> |
| RFW-147 | RFW-163 |
| RFW-150 | RFW-166 |
| RFW-153 | RFW-167 |
| RFW-154 | RFW-168 |
| RFW-155 | RFW-170 |
| RFW-160 | RFW-172 |



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: 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 Rudip Suph FURTH Signed by [Signature]
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 4/2/90 to 6/27/90 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.

[Signature] Commissions 9556 W
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 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 | 7185 | N/A | N/A | 1975 | Replacement | Yes, Class 1 |
| CT&F | GE | A8562 | N/A | N/A | 1983 | 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



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 new replacement Cylinder Tube and Flange (CT&F) assembly Serial Number A8562

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 Rudolph Sauts

Signed [Signature]
Plant Technical Manager

Date 5/19/90

Date 5-21-90

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 5/3/90 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.

[Signature]
Inspector's Signature

Commissions 9556 W
National Board, State, and Endorsements

Date 5/22/90

MWR A's 5339
Ludwig Ewert
5/19/90

FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES
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 Address of NPT Certificate Holder)
- (b) Manufactured for: WNE-2, RICHLAND, Wa. 99352
(Name and Address of NPT Certificate Holder for completed nuclear component)
- 2. Identification-Certificate Holders's S/N of Part: A8562 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 Rod Drive for use with reactor.
(Brief description or 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 Certificate 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: 12/31, 19 88 Signed GZ-NEEG-NF&CA-QA By [Signature]
(NPT Certificate Holder)

Certificate of Authorization Expires: 6/16/90 Certification of Authorization No.: NPT N-1151

| CERTIFICATION OF DESIGN FOR APPURTENANCE | |
|--|---|
| Design information on file at | <u>GZ COMPANY, SAN JOSE, CALIFORNIA</u> |
| Stress analysis report on file at | <u>GZ COMPANY, SAN JOSE, CALIFORNIA</u> |
| DC22A6253 Rev. 0 | |
| Design specification certified by | <u>BURN HAABERG</u> Prof. Eng. State <u>CALIF.</u> Reg. No. <u>15570</u> |
| DC22A6254 Rev. 0 | |
| Stress analysis report certified by | <u>EDWARD YOSHIO</u> Prof. Eng. State <u>CALIF.</u> Reg. No. <u>M018646</u> |

| CERTIFICATION 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 <u>NORTH CAROLINA</u> and employed by <u>DEPARTMENT OF LABOR of STATE OF NORTH CAROLINA</u> have inspected the part of a pressure vessel described in this Partial Data Report on <u>12-31</u> 19 <u>88</u> , and state that to the best of my knowledge and belief, the NPT Certificate Holder 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. | |
| DATE: <u>12-31</u> , 19 <u>88</u> | <u>[Signature]</u> Inspector's Signature |
| | <u>NO 779, FA, WC2160, OHIO</u> National Board, State, Province and No. |

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. "REMARKS"

VERIFIED & ACCEPTED [Signature]
1-15-89
R.I. Inspector Date

MWR AS 5339

S/N A 8562

Repair Equip
1/19/89

FORM M-2 (back)

Items 4-8 Incl. to be completed for single wall vessels, jackets vessels, or shells of heat exchangers.

4. Shell: Material _____ T.S. _____ Nominal Thickness _____ in. Corrosion Allowance _____ in. Dia. _____ ft. _____ in. Length _____ ft. _____ in.
(Kind & Spec.No.) (Min.of Range Specified)

5. Seams: Long _____ H.T.¹ _____ R.T. _____ Efficiency _____ %
Girth _____ H.T.¹ _____ R.T. _____ No. of Courses _____

6. Heads: (a) Material _____ T.S. _____ (b) Material _____ T.S. _____
Location (Top Bottom, Ends) Thickness _____ Crown Radius _____ Knuckle Radius _____ Elliptical Ratio _____ Conical Apex Angle _____ Hemispherical Radius _____ Flat Diameter _____ Side to Press. (conv. or conc.)
(a) _____
(b) _____
If removable, bolts used _____ Other fastening _____
(Material, Spec.No., T.S. Size Number) (Describe or attach sketch)

7. Jacket Closures: _____
(Describe as ogee and weld, bar, etc. If bar give dimensions, if bolts, describe or sketch)

8. Design Pressure ² _____ 1250 _____ psi at _____ 575 _____ °F Drop Weight _____ ft.-lb.
Charpy Impact _____ ft.-lb.
at temp. of _____ °F

Items 9 and 10 to be completed for tube sections.

9. Tube Sheets: Stationary Mat'l. _____ Dia. _____ Thickness _____ in. Attachment _____
(Kind of Spec. No.) (Subj. to Press.) (Welded, Bolted)
Floating. Material _____ Dia. _____ Thickness _____ in. Attachment _____
inches

10. Tubes: Material _____ O.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 heat exchangers

11. Shell: Material _____ T.S. _____ Nominal Thickness _____ in. Corrosion Allowance _____ in. Dia. _____ ft. _____ in. Length _____ ft. _____ in.
(Kind & Spec.No.) (Min. of Range Specified)

12. Seams: Long _____ H.T.¹ _____ R.T. _____ Efficiency _____ %
Girth _____ H.T.¹ _____ R.T. _____ No. of Courses _____

13. Heads (a) Material _____ T.S. _____ (b) Material _____ T.S. _____
Location (a) Top, Bottom, End Thickness _____ Crown Radius _____ Knuckle Radius _____ Elliptical Ratio _____ Conical Apex Angle _____ Hemispherical Radius _____ Flat Diameter _____ Side to Press. (Conv. or Conc.)
(b) Channel _____
If removable, bolts used (a) _____ (b) _____ (c) _____ Other Fastening _____
(Describe or attach sketch)

14. Design pressure ² _____ psi at _____ °F Drop Weight _____ ft.-lb.
Charpy Impact _____ ft.-lb.
at temp. of _____ °F

Items below to be completed for all vessels where applicable.

15. Safety Valve Outlets: Number _____ Size _____ Location _____

16. Nozzles:
Purpose (Inlet Outlet, Drain) _____ Number _____ Dia or Size _____ Type _____ Material _____ Thickness _____ Reinforcement Material _____ Attached _____

17. Inspection Openings: Manholes, No. _____ Size _____ Location _____
Handles, No. _____ Size _____ Location _____
Threaded, No. _____ Size _____ Location _____

18. Supports: Shirt _____ Lugs _____ Lugs _____ Other _____ Attached _____
(Yes or No) (Number) (Number) (Describe) (Where & How)

¹ If Postweld Heat-Treated.

² List other internal or external pressure with coincident 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 (Name) Washington Public Power Supply System Date 1/2/90
 Owner (Address) 3000 George Washington Way, Richland, WA Sheet 1 of 1
2. Plant (Name) WPPSS Nuclear Power Plant (WNP) Unit WNP-2
 Plant (Address) Hanford, Benton County, WA N/A
3. Work Performed by (Name) WPPSS Repair Organization P.O. No., Job No., etc.
 Work Performed by (Address) 3000 George Washington Way, Richland, WA
Service Water
4. Identification of System _____
5. (a) Applicable Construction Code ASME Section III 19 74 Edition, W76 Addenda, None Code Case
 (b) Applicable Edition of ASME Section XI Utilized for Repairs or Replacements 19 80 Edition, W80
 Addenda, N308 Code Case
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 |
|-------------------|----------------------|-------------------------|--------------------|------------|------------|------------------------------------|--|
| 18SW(21)-2 | BF Shaw | N/A | N/A | N/A | 1979 | Modification | Yes, Class 3 |
| 18SW(22)-2 | BF Shaw | N/A | N/A | N/A | 1979 | Modification | Yes, Class 3 |

7. Description of Work:

Deleted snubbers for hangers SW-934N and SW-937N.

Notes:



WASHINGTON PUBLIC POWER
SUPPLY SYSTEM

PLAN NO. MWR AT-8898

FORM NIS-2 (Back)

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other None
Test Pressure _____ psig, Test Temp. _____ °F
Component Design Pressure _____ psig, Temp. _____ °F

9. Remarks:

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this modification conforms to the rules of the ASME Code, Section XI.
repair or replacement

Type Code Symbol Stamp Not applicable

Certificate Authorization No. Not applicable Expiration Date Not applicable

Signed Joe Maurer Title Plant Technical Manager
Owner or Owner's Designee.

Date 1/16 19 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 Lumbermen's Mutual Casualty Co. of Illinois have inspected the components described in this Owner's Report during the period 1-17-90 to 1-18-90 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, 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 Higgins Commissions 9/55/88
Inspector's Signature National Board, State, and Endorsements

Date 1-18 19 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: 9/13/90 |
| 2. Plant: WPPSS Nuclear Power Plant (WNP) Address: Hanford, Benton County, WA | Sheet: 1 of 1 |
| 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: 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 |
| SW(2)-2 | WPPSS | SW(2)-2-P1 | N/A | N/A | 1983 | Replacement* | Yes, Code Class 3 |
| SW(21)-2 | WPPSS | SW(21)-2-P1 | N/A | N/A | 1983 | Replacement* | Yes, Code Class 3 |
| SW(22)-2 | WPPSS | SW(22)-2-P1 | N/A | N/A | 1983 | Replacement* | 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

| <u>EPN Changed From</u> | <u>EPN Changed To</u> | <u>Code System (N-5)</u> | <u>Valve S/N</u> |
|-------------------------|-----------------------|--------------------------|------------------|
| 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



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: 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 Quincy Srip

Signed by [Signature]
Plant Technical Manager

Date 9/13/90

Date 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 3/2/90 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.

[Signature]
Inspector's Signature

Commissions 9556 W
National Board, State, and Endorsements

Date 9/13/90



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
- 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

Date: 9/13/90
Sheet: 1 of 1
Unit: WNP-2

| 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: Reference 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



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: 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 Rudolph L. Smith

Signed by [Signature]
Plant Technical Manager

Date 9/13/90

Date 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 4/25/90 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.

[Signature]
Inspector's Signature

Commissions 9556 W
National Board, State, and Endorsements

Date 9/13/90