



ExMC/245/DV  
June 2005

**IEC SCHEME FOR CERTIFICATION TO STANDARDS RELATING TO  
EQUIPMENT FOR USE IN EXPLOSIVE ATMOSPHERES  
(IECEx SCHEME)**

**Ex Management Committee, ExMC**

**TITLE: IECEx Assessment Report for an extension of scope for existing  
ExCB TÜV NORD CERT GmbH+Co.KG**

---

---

This document contains the IECEx Assessment Report for voting on an extension of scope for existing ExCB TÜV NORD CERT GmbH+Co.KG.

The assessment team noted that there had not been any changes to the organisational structure of TÜV and they therefore focused on the scope of extension.

**The report is hereby submitted for voting by ExMC**

Please consider the assessment report and return the completed voting form to the Secretariat by **2005 08 28**. Your speedy response to the voting process will be very much appreciated.

You may return your completed voting form (available in Word format) via fax or e-mail. Details below.

**Chris Agius**  
**IECEx Secretariat**

**Address:**  
**IECEx Secretariat**  
**SAI Building**  
**286 Sussex Street**  
**Sydney 2000**  
**Australia**

**Tel: +61 2 8206 6940**  
**Fax: +61 2 8206 6272**  
**Email: [chris.agius@iecex.com](mailto:chris.agius@iecex.com)**  
**Internet: [www.iecex.com](http://www.iecex.com)**



## IECEX ASSESSMENT REPORT FORM

For extension of scope for existing ExCB (Ex Certification Body) TUV Nord

### Type of Assessment:

Initial Assessment for Candidate ExCB

Increase in scope for existing ExCB

#### 1. OBJECT AND FIELD OF APPLICATION

1.1 **Country:**  
Germany

1.2 **Name of Candidate ACB**  
TÜV NORD CERT GmbH+Co.KG

1.3 **Members of The Assessment Team**  
Jim Munro, Lead Assessor (for all of scope extension)  
Ron Webb, Assessor (for Ex d and check on dusts)

1.4 **Place and Dates of Assessments**  
Am TÜV 1  
30519 Hannover  
Germany

4 October 2004 Jim Munro (Dusts, Zone 0, IS systems, FISCO)  
18-19 January 2005 Ron Webb (Ex d)  
20 May 2005 Ron Webb (Ex d and final check of dusts)

#### 1.5 **Assessment References**

Document:

- i) IECEx 02 First Edition
- ii) IECEx Operational Document OD/003 (ExMC/100/CD)
- iii) ISO/IEC Guide 65 1996

#### 1.6 **Scope of Application**

##### Current Scope of Acceptance

<b>Product Category</b>	<b>Standard</b>
General Requirements	(IEC 60079-0)
Pressurised Enclosures "p"	(IEC 60079-2)
Sand-filled Apparatus "q"	(IEC 60079-5)
Oil-immersed Apparatus "o"	(IEC 60079-6)
Increased Safety "e"	(IEC 60079-7)
Intrinsic Safety "i"	(IEC 60079-11)
Electrical Apparatus with Type of Protection "n"	(IEC 60079-15)
Encapsulation "m"	(IEC 60079-18)



**Extension of Scope**

Flameproof "Ex d"	IEC 60079-1
Group II Zone "0" Electrical Apparatus	IEC 60079-26
Combustible dust - General requirements	IEC 61241-0
Protection by Enclosures "tD"	IEC 61241-1
Protection Dust Overpressure "pD"	IEC 61241-4
Encapsulation "mD"	IEC 61241-18
Intrinsically Safe Systems	IEC 60079-25
Field bus Intrinsically Safety concept (FISCO)	IEC 60079-27

**1.7 Candidate ExCB Persons Interviewed  
October 2004 Assessment**

**Name**

Herbert Stürwold  
Karl-Heinz Schwedt  
Jens Scheffler  
Herbert Peters  
Andreas Eiklenborg

**January and May 2005 Assessment**

**Name**

Karl-Heinz Schwedt  
Herbert Peters  
Andreas Eiklenborg

**1.8 Legal Entity Of The Candidate ACB**  
Not covered for the extension of scope.

**1.9 Associated Testing Laboratories**  
TÜV NORD has an integral ExTL.

**1.10 Associated Certification Functions**  
Not covered for the extension of scope.

**1.11 National Marks and Certificates**  
Not covered for the extension of scope.

**1.12 Financial Support**  
Not covered for the extension of scope.

**1.13 History**  
Not covered for the extension of scope.

**1.14 Standards Accepted**  
Not covered for the extension of scope.

**1.15 National Differences to IEC Standards**  
Not covered for the extension of scope.



## 2. ORGANISATION

### 2.1 *Names, Titles and Experience of the Senior Executives*

Name	Title	Experience
Karl-Heinz Schwedt	Head of ExCB	25 years
Herbert Stürwold	Deputy Head of ExCB	25 years

### 2.2 *Name, Title and Experience of the Quality Management Representative*

Name	Title	Experience
Ina Walter	TÜV CERT lead auditor, QMR	5 years at TÜV NORD CERT

### 2.3 *Name and Title of Nominated Principal Contact*

Name	Title	Comments
Karl-Heinz Schwedt	Head of ExCB	

### 2.4 *Name and Title of Signatories for Certification*

Name	Title	Comments
Karl-Heinz Schwedt	Head of ExCB	
Herbert Stürwold	Deputy Head of ExCB	

### 2.5 *Other Employees in ExCB activity*

See attached overview of functions and activities of personnel in the field of the IECEx Scheme (Annex A).

### 2.6 *Organisational Structure*

As above

## 3. RESOURCES

TÜV NORD has the necessary resources for its operation to cover the extension of scope.

## 4. COMMITTEES

Not covered for the extension of scope.

## 5. CERTIFICATION OPERATIONS

### 5.1 *National Approval/Certification Methods*

Not covered for the extension of scope.

### 5.2 *Certification Policy*

Not covered for the extension of scope.

## 6. STATISTICS

Not covered for the extension of scope.

## 7. DOCUMENTATION

TÜV NORD has documentation that covers the extension of scope.



**8. RECORDS**

The system of recording results for the extension of scope was satisfactory.

**9. CONFIDENTIALITY**

Not covered for the extension of scope.

**10. PUBLICATIONS**

Not covered for the extension of scope.

**11. APPEALS**

Not covered for the extension of scope.

**12. NATIONAL ACCREDITATION**

TÜV NORD has accreditation from ZLS to cover the extension of scope.

**13. RECOGNITION AND AGREEMENTS**

Not covered for the extension of scope.

**14. QUALITY MANUAL**

The quality manual has been updated to introduce procedures for the extension of scope.

**15. INTERNAL AUDIT AND PERIODIC REVIEW**

Not covered for the extension of scope.

**16. COMPLAINTS**

Not covered for the extension of scope.

**17. WITHDRAWAL AND CANCELLATION OF CERTIFICATES**

Not covered for the extension of scope.

**18. SPECIAL FACTS TO BE NOTED**

For the first extension of scope assessment issues were found with the calibration of equipment for the dust testing and handling of manufacturers' results. These were subsequently resolved to the assessment team's satisfaction. Details are held by the Secretariat.

For the second assessment, there were issues with abnormalities with pressure determination figures, the need for evidence that required gas mixtures could be achieved, the need hydrogen/methane mixtures and the need for test procedures for test procedures for reference pressure testing and flame transmission testing.

These were resolved and checked, to the assessment team's satisfaction, at the third assessment visit. Details are held by the Secretariat.

**19. RECOMMENDATION**

It is recommended the scope of TÜV NORD CERT GmbH+Co.KG be extended to include the additional standards shown in Clause 1.6.



ExMC/245/DV  
June 2005

## **LIST OF ANNEXES**

**Annex A: Overview of functions and activities of personnel in the field of the IECEx Scheme**

**Annex B: ZLS Accreditation**

**Annex C: Translation of Accreditation**

Jim Munro  
Lead Assessor

Ron Webb  
Assessor

2 June 2005



ExMC/245/DV  
June 2005

## Annex A

TÜV NORD CERT GmbH + Co. KG  
Am TÜV 1  
30519 Hannover  
Germany



**Overview of functions and activities of personnel in the field of the IECEx Scheme**

<p><b>Accepted Certification Body</b> Head of the CB: Karl-Heinz Schwedt Deputy: Herbert Stürwold</p>
<p>Certification according to standards IEC 60079-0, -1, -2, -5, -6, -7, -11, -15, -18, -25, -26, -27 and IEC 61241-0, -1, -4, -18</p>

<p><b>Testing Laboratory</b> Head of the TL: Andreas Meyer Deputy: N.N.</p>														
<p><b>Test engineers and their activities<sup>1</sup></b></p>														
<b>Standard:</b>	<b>IEC 60079-0 and part</b>											<b>IEC 61241-0 and part</b>		
<b>Employee:</b>	<b>-1</b>	<b>-2</b>	<b>-5</b>	<b>-6</b>	<b>-7</b>	<b>-11</b>	<b>-15</b>	<b>-18</b>	<b>-25</b>	<b>-26</b>	<b>-27</b>	<b>-1</b>	<b>-4</b>	<b>-18</b>
<b>Anke Drews</b>						X		X	X	X	X	X		X
<b>Andreas Eiklenborg</b>	X		X		X	X		X				X	X	X
<b>Klaus Hoferichter</b>		X	X	X	X	X	X	X	X	X	X	X	X	X
<b>Andreas Meyer</b>					X	X		X	X	X	X	X		X
<b>Herbert Peters</b>	X	X	X	X	X	X	X		X	X	X	X	X	X
<b>Jens Scheffler</b>		X			X	X	X	X	X	X	X	X	X	X
<b>Karl-Heinz Schwedt</b>		X			X	X			X	X	X			
<b>Anke Weichert</b>	X	X	X									X	X	X
<p><b>Measuring equipment supervision</b> Head of the workshop: Bernd Roffka</p>														

<sup>1</sup> All testing-engineers are collaborators of the TL and have the education and experience to carry out tests for the respective type of protection.

**Annex B**

**AKKREDITIERUNG**



**Die Zentralstelle der Länder für Sicherheitstechnik (ZLS)**

– vertreten im Deutschen Akkreditierungsrat –  
bestätigt hiermit, dass die

**TÜV NORD CERT GmbH & Co. KG**

**AM TÜV 1**

**D – 30519 Hannover**

die Anforderungen des § 9 Abs. 2 Gerätesicherheitsgesetz (GSG)  
und der Norm DIN EN 45 011 erfüllt sowie die Kompetenz besitzt,

**Geräte zur bestimmungsgemäßen Verwendung  
in explosionsgefährdeten Bereichen**

im Geltungsbereich der Richtlinie 94/9/EG entsprechend den  
Bestimmungen des Akkreditierungsbescheides Nr.: 5.ZLS/3926-1/109/03  
vom 30.04.2003

**zu zertifizieren.**

Die Akkreditierung ist gültig vom 01.08.2001 bis zum 31.07.2006.

DAR-Reg.-Nr.: ZLS-ZE-369/03

München, den 30.04.2003

Im Auftrag



Dipl.-Wirtsch.-Ing. (FH) Huber  
Leiter der ZLS





ExMC/245/DV  
June 2005



Anlage zum Akkreditierungsbescheid  
der Zentralstelle der Länder für Sicherheitstechnik  
Nr. 5.ZLS/3926-1/109/03 vom 30.04.2003

für

TÜV NORD CERT GmbH & Co. KG

Am TÜV 1, 30519 Hannover

#### Beschreibung des Akkreditierungsumfanges

1. **Geräte**
  - 1.1 Elektrische Betriebsmittel der Gerätegruppe II  
Geräteklasse 1,2 und 3
  - 1.1.1 Elektrische Betriebsmittel in allen Zündschutzarten
  - 1.2 Nicht elektrische Betriebsmittel der Gerätegruppe II  
Geräteklasse 1,2 und 3
  - 1.2.1 mit der Zündquelle statische Aufladung nicht metallischer Werkstoffe
  - 1.3 Maschinen der Gerätegruppe II,  
Geräteklassen 1,2 und 3
  - 1.3.1 Verbrennungsmotoren
  - 1.3.2 Flurförderzeuge
2. **Komponenten**
  - 2.1 der oben genannten Geräte
3. **Sicherheits-, Kontroll- und Regelvorrichtungen**
  - 3.1 Vorrichtungen zum sicheren Betrieb als Bestandteile von Geräten



ExMC/245/DV  
June 2005

## Annex C

Unauthorized Translation

# ACCREDITATION

**The central office for the states for safety technology (ZLS<sup>1</sup>)**  
represented in the German Accreditation Council  
hereby confirms that the

**TÜV NORD CERT GmbH & Co. KG**  
**Am TÜV 1, 30519 Hanover**

has fulfilled the requirements of § 9 para. 2 of the Equipment Safety Law (GSG)  
and the standard DIN EN 45 011 as well as possessing the competence

**to certify equipment for the intended use  
in potentially explosive atmospheres**

in the area of application of the Directive 94/9/EC  
corresponding to the  
determinations of the opening of a credit notice no. 5.ZLS/3926-1/109/03  
dated 30.04.2003

The accreditation is valid from **01.08.2001** until **31.07.2006**.  
DAR-reg.- no.: **ZLS-ZE-369/03**

**Munich, dated 30.04.2003**

(Signature)

Dipl.-Wirtsch.-Ing. (FH) Huber  
Head of ZLS

ZLS in the Bavarian State Ministry for Work and Social affairs, Family, Women and Health, 80792 Munich

Comments by translator:

<sup>1</sup> "ZLS" is the German abbreviation for "Zentralstelle der Länder für Sicherheitstechnik" (Federal states' central office for safety engineering)



ExMC/245/DV  
June 2005

Unauthorized Translation

**Appendix to the notice of accreditation  
from the Central Office for the states for safety technology  
no. 5.ZLS/3926-1/109/03 of 30.04.2003**

for

**TÜV NORD CERT GmbH & Co. KG  
Am TÜV 1, 30519 Hanover**

**Description of the scope of the accreditation**

**1. Equipment**

- 1.1 Electrical equipment in equipment group II  
Equipment categories 1, 2 and 3
  - 1.1.1 Electrical equipment in all types of protection
- 1.2 Non electrical equipment in equipment group II  
Equipment group 1, 2 and 3
  - 1.2.1 With type of ignition source static electrical discharge of non metallic material
- 1.3 Machines in equipment group II  
Equipment categories 1, 2 and 3
  - 1.3.1 Internal combustion engines
  - 1.3.2 Flight conveyor equipment

**2. Components**

- 2.1 Belonging to the equipment described above

**3. Safety,- controlling and regulation devices**

- 3.1 Devices for safe operation as constituent parts of equipment

1.