



ExMC/246/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  
ExTL (Ex Testing Laboratory) TÜV NORD CERT GmbH+Co.KG**

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**This document contains the IECEx Assessment Report for voting on an  
extension of scope for existing ExTL, 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**

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IECEx Secretariat  
SAI Building  
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Sydney 2000  
Australia**

**Tel: +61 2 8206 6940  
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Internet: [www.iecex.com](http://www.iecex.com)**



ExMC/246/DV  
June 2005

**IECEX ASSESSMENT REPORT FORM**  
**For existing ExTL TÜV Nord for extension of scope**

**Type of Assessment:**

Initial Assessment for Candidate ExTL   
Increase in scope for existing ExTL X

**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 final 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 Second Edition
- ii) IECEx Operational Document OD/003 (ExMC/100/CD)
- iii) ISO/IEC 17025
- iv) IECEx Technical Guidance documents

**1.6 Scope of Application**

**Current Scope of Acceptance**

**Product Category**

General Requirements

**Standard**

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"	IEC60079-1
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 ExTL Persons Interviewed  
October 2004 Assessment**

<b>Name</b>	<b>Experience</b>
Herbert Stürwold	25 years
Karl-Heinz Schwedt	25 years
Jens Scheffler	6 years
Herbert Peters	4 years
Andreas Eiklenborg	1 year

**January and May 2005 Assessment**

<b>Name</b>	<b>Experience</b>
Karl-Heinz Schwedt	25 years
Herbert Peters	4 years
Andreas Eiklenborg	1 year

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

**1.9 Associated ExCB**  
TÜV NORD has an integral ExCB

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

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



**1.12 Relevant Standards**

All relevant standards are shown in the Scope (Clause 1.6)

**2. ORGANISATION**

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

<b>Name</b>	<b>Title</b>	<b>Experience</b>
Andreas Meyer	Head of ExTL	15 years
Yet to be nominated	Deputy Head of ExTL	

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

<b>Name</b>	<b>Title</b>	<b>Experience</b>
Ina Walter	TÜV CERT lead auditor, QMB	5 years at TÜV Nord

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

Karl-Heinz Schwedt  
Head of ExCB

**2.4 Employees**

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

**2.5 Organisational Structure**

As above

**3. RESOURCES**

TÜV NORD has the necessary staff, equipment and procedural resources for its operation.

**4. TEST METHODS**

There are procedures and work instructions covering all critical testing requirements.

**5. TEST REPORTS AND RECORDS**

TÜV NORD has appropriate methods for record and retaining results and for production of test reports.

**6. CALIBRATION**

TÜV NORD has a calibration program that is generally effective although a couple of issues were found and resolved.

**7. DOCUMENTATION**

TÜV NORD has documentation that covers the extension of scope



**8. CONFIDENTIALITY**

Not covered for the extension of scope

**9. NATIONAL ACCREDITATION**

TÜV NORD has accreditation from ZLS.

**10. RECOGNITION AND AGREEMENTS**

Not covered for the extension of scope

**11. INTERNAL AUDIT AND PERIODIC REVIEW**

Not covered for the extension of scope

**12. COMPLAINTS MECHANISM**

Not covered for the extension of scope

**13. 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 manufacturer's results. These were subsequently resolved to the satisfaction of the assessment team. Details are held by the Secretariat.

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

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

**14. RECOMMENDATION**

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

**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  
June 2005

Ron Webb  
Assessor



ExMC/246/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>	-1	-2	-5	-6	-7	-11	-15	-18	-25	-26	-27	-1	-4	-18
Anke Drews						X		X	X	X	X	X		X
Andreas Eiklenborg	X		X		X	X		X				X	X	X
Klaus Hoferichter		X	X	X	X	X	X	X	X	X	X	X	X	X
Andreas Meyer					X	X		X	X	X	X	X		X
Herbert Peters	X	X	X	X	X	X	X		X	X	X	X	X	X
Jens Scheffler		X			X	X	X	X	X	X	X	X	X	X
Karl-Heinz Schwedt		X			X	X			X	X	X			
Anke Weichert	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.

# 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 17025 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/3926-1/108/03  
vom 30.04.2003

**zu prüfen.**

Die Akkreditierung ist gültig vom 01.08.2001 bis zum 31.07.2006.

DAR-Reg.-Nr.: ZLS-P-436/03

München, den 30.04.2003

Im Auftrag

Dipl.-Wirtsch.-Ing. (FH) Huber

Leiter der ZLS

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 17 025 as well as possessing the competence

**to test 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/3926-1/108/03  
dated 30.04.2003.

The accreditation is valid from **01.08.2001** until **31.07.2006**.  
DAR-reg.- no.: **ZLS-P-436/03**

**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

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Comments by translator:

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



Unauthorized Translation

**Appendix to the notice of accreditation  
from the Central Office for the states for safety technology  
no. 5.ZLS/3926-1/108/03 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