



**INTERNATIONAL ELECTROTECHNICAL COMMISSION (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 acceptance of *TÜV SÜD Product Service GmbH* as an IECEx Certification Body (ExCB)

INTRODUCTION

This document contains the IECEx Assessment Report for the acceptance of *TÜV SÜD Product Service GmbH* - as an IECEx Certification Body (ExCB) within the IECEx Scheme.

As agreed during the 2006 ExMC Meeting the voting report is issued for voting via correspondence and is issued as ExMC/340A/DV. It should be noted that the only change to this document is that, it is now issued for voting via correspondence, and has therefore been renumbered as ExMC/340A/DV.

Please return the voting form (Word Version) available on the IECEx Web Site at
www.iecex.com/committee_documents.htm

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IECEx Secretariat

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IECEx ASSESSMENT REPORT FOR TÜV SÜD Product Service GmbH, Munich, Germany (TSPS) ExCB (Accepted Certification Body)

Type of Assessment:

Initial Assessment for Candidate ExCB

X

1. OBJECT AND FIELD OF APPLICATION

1.1 *Country:*

Germany

1.2 *Name of Candidate ExCB*

TÜV SÜD Product Service GmbH
Ridlerstrasse 65
80339 Munich
Germany

1.3 *Members of the Assessment Team*

Heinz S. Berger, Team Leader
Vijay Kumar Varma, Expert Assessor
William Dunn, Expert Assessor

1.4 *Place and Date of Assessment*

80339 Munich, Ridlerstrasse 65

8th – 10th Mai, 2006

1.5 *Assessment References*

- iii) IECEx 02 Second Edition 2003-06
- iv) IECEx Operational Document OD/003
- v) IECEx Operational Document OD 005V2
- vi) IECEx Operational Document OD/009
- vii) IECEx Document ExMC/161/CD (QAR)
- viii) ISO/IEC Guide 65 1996
- ix) ExCB application documents dated May 16, 2005

1.6 *Scope of Application*

Number	Title
60079-0	Electrical apparatus for explosive gas atmospheres Part 0: General requirements



Secretariat



ExMC/BA0024/0A/DV
August 2006

<u>60079-1</u>	Electrical apparatus for explosive gas atmospheres Part 1: Construction and verification test of flameproof enclosures of electrical apparatus
<u>60079-2</u>	Electrical apparatus for explosive gas atmospheres Part 2: Electrical apparatus, type of protection 'p' (Pressurization)
<u>60079-5</u>	Electrical apparatus for explosive gas atmospheres Part 5: Powder filling 'q'
<u>60079-6</u>	Electrical apparatus for explosive gas atmospheres Part 6: Oil-immersion 'o'
<u>60079-7</u>	Electrical apparatus for explosive gas atmospheres Part 7: Increased safety 'e'
<u>60079-11</u>	Electrical apparatus for explosive gas atmospheres Part 11: Intrinsic safety 'i'
<u>60079-15</u>	Electrical apparatus for explosive gas atmospheres Part 15: Electrical apparatus with type of protection 'n' (Non-Sparking)
<u>60079-18</u>	Electrical apparatus for explosive gas atmospheres Part 18: Encapsulation 'm'
<u>61241-0</u>	Electrical apparatus for use in the presence of combustible dust Part 0: General requirements
<u>61241-1-1</u>	Electrical apparatus for use in the presence of combustible dust Part 1: Electrical apparatus protected by enclosures Section 1: Specification for apparatus
<u>61241-4</u>	Electrical apparatus for use in the presence of combustible dust Part 4: Type of protection 'pD'
<u>61779-1</u>	Electrical apparatus for the detection and measurement of flammable gases Part 1: General requirements and test methods
<u>61779-2</u>	Electrical apparatus for the detection and measurement of flammable gases Part 2: Performance requirements for group I apparatus indicating a volume fraction up to 5% methane in air
<u>61779-3</u>	Electrical apparatus for the detection and measurement of flammable gases Part 3: Performance requirements for group I apparatus indicating a volume fraction up to 100% methane in air
<u>61779-4</u>	Electrical apparatus for the detection and measurement of flammable gases Part 4: Performance requirements for group II apparatus indicating up to 100% lower explosive limit
<u>61779-5</u>	Electrical apparatus for the detection and measurement of flammable gases Part 5: Performance requirements for group II apparatus indicating a volume fraction up to 100% gas

1.7 **Candidate ExCB Persons Interviewed**

Name

Position

Dr. Wolfgang Kreinberg
Siegfried Moesch

Division Manager ITC
Head of ExCB

Ms. Christine Bernhard
Klaus Lorenz

Customer Service within ExCB
Deputy Head of ExCB

1.8 Legal Entity of the Candidate ExCB

The ExCB is a department within the organization of TÜV SÜD Product Service GmbH.

1.9 Associated Testing Laboratories

- 1) ExTL of TÜV SÜD Automotive GmbH, Munich
- 2) ExTL of TÜV SÜD Product Service, Filderstadt

Both legal entities of TÜV SÜD Product Service GmbH and TÜV SÜD Automotive GmbH are part of the TÜV SÜD Group.

1.10 Associated Certification Functions

TÜV SÜD Product Service (TSPS) is Notified Body for a wide range of European Directives, for example the European ATEX Directive 94/9/EC.

TSPS are active in a large number of other certification procedures such as the European ENEC Scheme (ISO Type 5) and the NRTL Program (USA, ISO Type 5).

Furthermore, TSPS is NCB in the IECEE CB Scheme and the IECEE CB-FCS Scheme (FCS: Full Certification Scheme, an ISO type 5 certification system).

1.11 National Marks and Certificates

TSPS operate according to the German Product and Equipment Safety Law (GPSG). TSPS is authorized to issue the German GS-mark (GS=Geprüfte Sicherheit, Safety tested). TSPS further offer a non mandatory mark for a wide range of products, the TÜV SÜD Octagon Mark.

1.12 Financial Support

TÜV SÜD Product Service GmbH is a 100% private owned company. TSPS are self funded relating to revenues based on certificate fees, license fees and testing activities.

1.13 History

Under the leadership of the former TÜV Bayern (now: TÜV SÜD), founded in 1872, several product safety laboratories in Munich were united and formed to TÜV Product Service GmbH in 1988. 1990 TÜV Hessen's safety lab joined, and in 1997, TÜV Südwest in Filderstadt / Stuttgart was integrated into the organization of TÜV Product Service. Nowadays in a worldwide network manufacturers of all kind of consumer products are served based on various accreditations and notifications. In 2006, the TÜV SÜD Group introduced a new Corporate Identity and the former TÜV Product Service was renamed in TÜV SÜD Product Service GmbH.

1.14 Standards Accepted

See scope in clause 1.6 of this report.



1.15 **National Differences to IEC**

National differences for Germany
IECEx Scheme Bulletin.

2. **ORGANISATION**

2.1 **Names, Titles and Experience**

Name	Title
Dr. Wolfgang Kreinberg, Head of ExCB	
Siegfried Mösch, Head of ExCB	

2.2 **Name, Title and Experience**

Name
Albrecht Mayer

2.3 **Name and Title of Nominators**

Name	Title
Siegfried Mösch	Head of ExCB

2.4 **Name and Title of Signatories**

Name	Title
Andreas Pfeil	Technical Director
Klaus Gohlke	Technical Director
Michael Reuschel	Technical Director
Thomas Lammel	Technical Director
Jürgen Blum	Technical Director

Note: Personnel of TÜV SÜD
ExCB of TÜV SÜD Product Safety
assessment and found to be a

2.5 **Other Employees in ExCB and**

Name	Title
Christine Bernhard	Head of ExCB
Klaus Lorenz	Manager

2.6 **Organizational Structure**

See Annexes 1 to 5: Organizational Structure

The CV's of personnel involved in IECEX activities were checked and found to be acceptable.

2.7 Administration

2.7.1 Administrative Structure

TSPS are operating an administration office for certification. Annex 5 "ExCB: Ex Team organization" describes the structure.

2.7.2 Terms of Reference of the Governing Board

The Governing Board operates according to their statutes. The last meeting was held on October 7th, 2005. The next meeting will take place on October 5th, 2006. In the last meeting, the Board agreed to implement the IECEX Scheme activities.

2.7.3 Indemnity Insurance

TÜV SÜD Group presented insurance confirmation of the Allianz Insurance Company, showing reasonable coverage. The insurance is valid until the end of 2006 and can be renewed for another year.

3. RESOURCES

A total of 14 employees are involved in certification activities which includes administration, certificate release, manufacturer auditing, general handling, customer service, accreditations, training, etc.). 5 persons thereof are listed as Technical Certifiers (technical decisions on certification applications). See Annex 5 for details.

4. COMMITTEES

See clause 2.7.2 (Advisory Board).

5. CERTIFICATION OPERATIONS

5.1 National Approval/Certification Methods

TSPS operate according to several European conformity assessment procedures such as the ATEX directive 94/9/EC. TSPS are also operating the German GS Mark System.

5.2 Certification Policy

The certification policy is described in document CPL_P_10.03E "Procedure for the Certification Body for Products".

The certification procedures contain relevant IECEX requirements (e.g. CPL_F_10.50).

5.3 Staff Work Instructions

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All relevant Staff Work Instructions for certification are listed and available in the Intranet. Those associated with IECEx testing and certification were reviewed and found comply with IECEx procedural requirements and Scheme rules.

5.4 Application for Certification

The application for certification is described in the Quality system of TSPS: TPS_P_10.01 "Process Control Certification".

6. STATISTICS

6.1 Certificates Issued

Number of certificates issued under the ATEX directive in the preceding three years for each type of protection:					
Product Category	Standard*	2004	2005	2006	Σ
General Requirements	IEC 60079-0	43	35	18	96
Flameproof Enclosures "d"	IEC 60079-1	-	4	-	4
Pressurized Enclosures "p"	IEC 60079-2	-	8	9	17
Powder Filling "q"	IEC 60079-5				0
Oil Immersion "o"	IEC 60079-6				0
Increased Safety "e"	IEC 60079-7	-	2	2	4
Intrinsic Safety "i"	IEC 60079-11	25	18	3	46
Type "n" Protection	IEC 60079-15	12	7	3	22
Type "m" Protection (encapsulation)	IEC 60079-18	8	9	5	22
Combustible dust - General requirements	IEC 61241-0	-	1	1	2
Apparatus for combustible dust atmospheres	IEC 61241-1-1	33	19	5	57
Combustible dust – Type of protection "pD"	IEC 61241-4				0
Detection and measurement of flammable gas - General requirements and test methods	IEC 61779-1	1	1	-	2
Detection and measurement of flammable gas - Volume fraction of up to 5% methane in air	IEC 61779-2				0
Detection and measurement of flammable gas - Volume fraction of up to 100% methane in air	IEC 61779-3				0
Detection and measurement of flammable gas - Group II; up to 100% lower explosive limit	IEC 61779-4	1	1		2
Detection and measurement of flammable gas - Group II; a volume fraction up to 100% gas	IEC 61779-5				0

* Mainly using equivalent EN-standards

7. DOCUMENTATION

7.1 Document and Change Control

The document change control procedure is described in the Quality system of TSPS (TPS_P_05.01 "Control of Quality Documents").

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8. RECORDS

The overall records procedure is described in the Quality system of TSPS (TPS_P_16.01 "Control of quality records"). Certificates are listed on the Internet of TÜV SÜD (www.tuev-sued.de).

9. CONFIDENTIALITY

In addition to the confidentiality clause in the employment contract, individual confidentiality declarations are signed according to procedure CPL_P_10.03, clause 5.13.

10. PUBLICATIONS

Information concerning Ex activities are available on the Internet (www.tuev-sued.de) and in brochures.

11. APPEALS

See clause 2.7.2 (Advisory Board).

12. NATIONAL ACCREDITATION

TSPS holds an accreditation for product certification by ZLS (German Accreditation Services) for EN 45011 (equivalent to ISO Guide 65) for the ATEX directive and an accreditation for system certification for EN 45012 (equivalent to ISO Guide 62). The Notified Body Number is 0123. See Annex 6 and 7 for the accreditation documents. Both certificates are valid until June 30th, 2008.

13. RECOGNITION AND AGREEMENTS

There are presently no recognitions and agreements in the Ex field. TSPS are participating in the IECEE CB and CB-FCS Schemes as NCB and CBTL. Furthermore, TSPS is presently the only NRTL (Nationally Recognized Testing Laboratory) in the OSHA scheme (USA) outside the American Continent.

14. QUALITY MANUAL

The Quality system of TSPS is incorporated into the Corporate Management Manual of TÜV SÜD Group. This Manual presents a five level concept. It describes how the requirements of TÜV SÜD are implemented at TSPS which includes the ExCB. Furthermore, local adjustments specify how global procedures may be applied.

15. INTERNAL AUDIT AND PERIODIC MANAGEMENT REVIEW

Internal audits are described in Procedure TPS_P_17.01 "Internal Quality Audits". Audit plans 2005 and 2006 were presented as well as the audit report of the certification department issued on April 24th, 2005. The 2006 audit was scheduled for May 8th. However, because of the IECEx Initial Assessment scheduled for this date made a postponement to May 29th, 2006 necessary.

The Management Review procedure is described in TPS_P_01.01. The last meeting was held on January 19th, 2006.

16. COMPLAINTS

The complaints procedure is described in Procedures TPS_P_19.01 "Complaint Management" and CPL_P_19.04 "Complaint Procedure Certification Body CRT3".

17. WITHDRAWAL AND CANCELLATION OF CERTIFICATES

The withdrawal and cancellation procedure is described in Procedures CPL_P_10.08 "Issuing, release and surveillance of certificates", CPL_P_10.09 "Termination of Certificates" and in the Testing and Certification Regulations.

18. SPECIAL FACTS TO BE NOTED

The TÜV SÜD Group is a very large organization operating world wide in the area of technical product conformance. TÜV SÜD Product Service GmbH holds a wide range of accreditations, issuing more than 100 different types of certificates.

TÜV SÜD Product Service GmbH operates a certification procedure using "Technical Certifiers". The Technical Certifier is an expert having competence in one or more functions within the conformity assessment process. The functions are: testing, verification of test reports, manufacturer auditing and certification. Personnel of above mentioned organizations involved in IECEx activities are listed on a competence matrix (scope of standards against personnel and their functions). Evidence was given during the assessment that no infringement of independency occurs.

The following organizations are involved in the IECEx process: TÜV SÜD Product Service GmbH, Munich, Germany (as the ExCB), TÜV SÜD Automotive GmbH, Munich, Germany (as an ExTL under contract), TÜV SÜD Product Service GmbH, Filderstadt, Germany (as an ExTL within the same legal entity), TÜV SÜD Product Service GmbH, Mannheim, Germany (as an ExTL within the same legal entity; for certain clauses of standards of IP and dust), TÜV Industrie Service GmbH, Filderstadt, Germany (a laboratory used by TÜV SÜD Product Service GmbH, Filderstadt, Germany for CTI tests and clauses of gas standards).

Refer to Annex 8 for a Matrix of the operations under TÜV SÜD Product Service GmbH, Munich, Germany (as the ExCB), for IECEx Operations.

Subcontracting and OTLs (Other Testing Laboratories)

The laboratory of SÜD Industrie Service GmbH, Filderstadt, Germany is used for certain clauses of standards (CTI tests and gas standards). The laboratory of IBExU (Institut für Sicherheitstechnik GmbH) in Freiberg, Germany, is a subcontractor for certain clauses of

standard Ex “d”. The relevant contracts are existent. As IBExU are an applicant IECEx ExTL and yet to be assessed, therefore IBExU services cannot be used at this stage.

Quality Assessment Reports (QARs)

The following ATEX “QARs” were checked together with Mr. Klaus Gohlke (mainly involved in manufacturer auditing concerning Ex and located in Filderstadt):

- # 70118606 (manufacturer in Germany): Protection techniques covered with this QAR are “d”, “i” and “m”;
- # 70111929 (manufacturer in Germany): Protection techniques covered with this QAR are “d”, “i”, “e” and “tD”;
- # 70084046 (manufacturer in Germany): Protection techniques covered with this QAR are “tD”, “iD”, “mD”, “m” and “i”;
- # 70074826 (manufacturer in Germany): Protection techniques covered with this QAR is “i”;
- # 70109871 (manufacturer in Germany): Protection techniques covered with this QAR are “m”, “i”, “e”, “d” and “c” (non electric).

The review of the “QARs” showed that the manufacturer auditing process is excellent organized and reports are comprehensive. IECEx requirements are met.

Training

The performance of training is described in procedure CPL_P_10.03, clause 5.7. Training programs are discussed on annual basis and an individual training plan will be created. The training includes IECEx procedures.

19. COMMENTS

During the assessment, the audit team made observations leading to actions items. All the actions items were resolved by the applicant, satisfying the assessment team towards the recommendation for acceptance.

20. RECOMMENDATION

Based on the initial assessment performed between May 8th and 10th, 2006, the assessment team recommends acceptance of TÜV SÜD Product Service GmbH as an IECEx Certification Body for the scope listed in clause 1.14 of this report. Use of IBExU as an ExTL working with TÜV SÜD Product Service GmbH, can only proceed after a successful IECEx Assessment and Acceptance by ExMC.

Heinz S. Berger Team Leader	William E. Dunn Expert Assessor	Vijay K. Varma Expert Assessor
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27th August 2006

List of Annexes:

- Annex 1: Overall Organization Chart of TÜV SÜD Group
 Annex 2: Organization Chart of Region Germany
 Annex 3: Organization Chart of TSPS GmbH



Secretariat

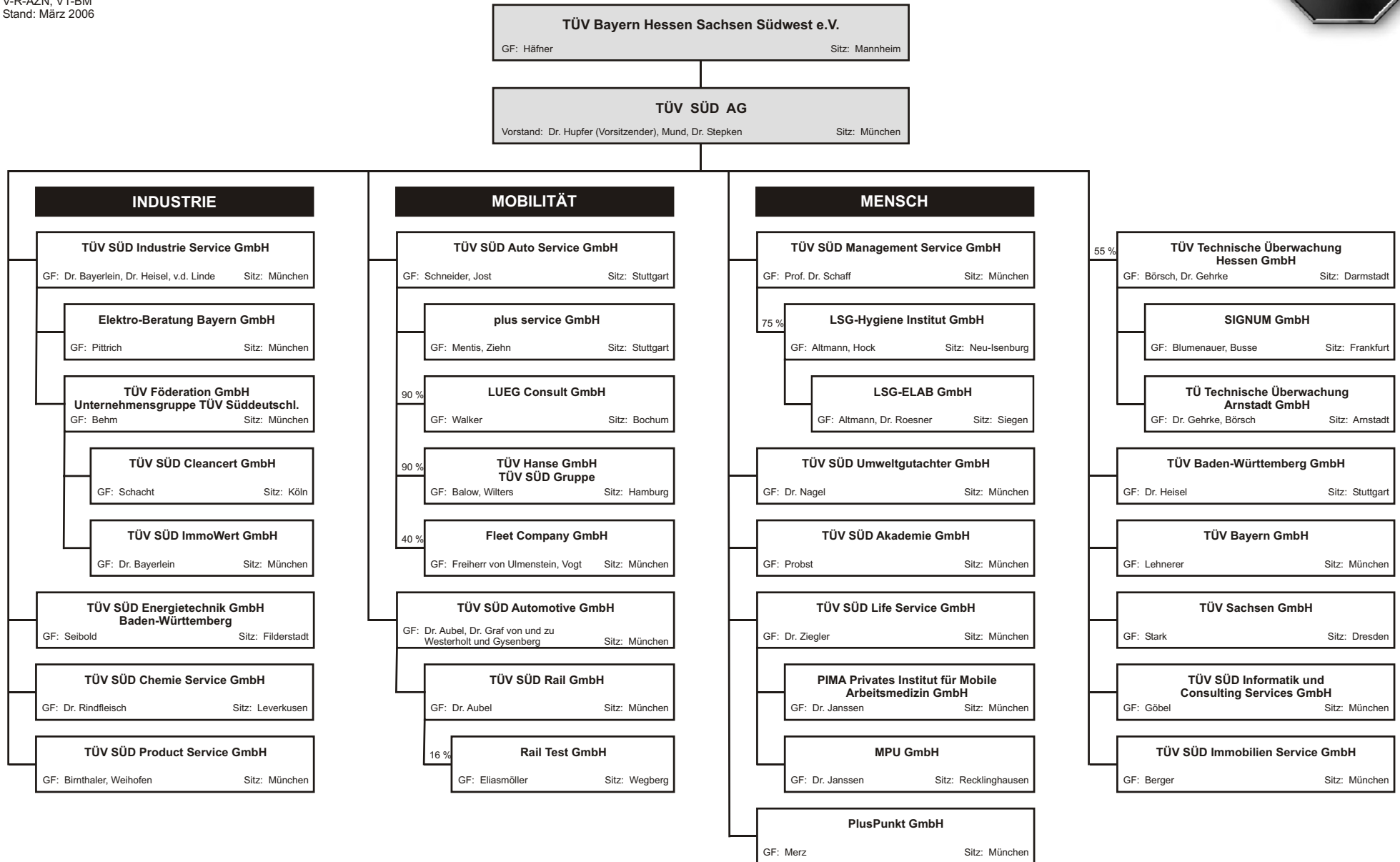
ExMC/340/DV
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- Annex 4: Organization Chart of TSPS Certification
- Annex 5: Ex Team Organization Chart
- Annex 6: Accreditation Certificate as Notified Body for Ex products
- Annex 7: Accreditation Certificate as Notified Body for Management Systems
- Annex 8: Matrix of operation with ExTL

Board of Management						
Dr. Peter Hupfer (Chairman) Hermann Mund Dr. Axel Stepken						
<div>Business Segments</div> <div>Regions</div>	INDUSTRY Stepken (Mund)	MOBILITY Hupfer (Mund)	PEOPLE Stepken (Mund)	Corporate Business Development Hupfer	Central Divisions	
					Finances & Controlling Mund	Planning & Corporate Management Hupfer
EUROPE	<ul style="list-style-type: none">• TÜV SÜD Industry Service• TÜV SÜD Product Service• TÜV SÜD Chemical Service <div>+ subsidiaries</div>	<ul style="list-style-type: none">• TÜV SÜD Auto Service• TÜV SÜD Automotive• TÜV SÜD Rail <div>+ subsidiaries</div>	<ul style="list-style-type: none">• TÜV SÜD Management Service• TÜV SÜD Life Service• TÜV SÜD Akademie <div>+ subsidiaries</div>	<ul style="list-style-type: none">• New technologies• New industry sectors• New regions	<ul style="list-style-type: none">• Controlling• Finances / Accounting• Investments• IT• Real estate	<ul style="list-style-type: none">• Human resources• Legal, Accreditation, Quality management, Risk management• Corporate communications• Corporate development• Auditing
AMERICAS Hupfer (Mund)	TÜV America (CRO) <div>+ subsidiaries</div>					
ASIA Stepken (Mund)	TÜV Asia (CRO) <div>+ subsidiaries</div>					

TÜV SÜD Gruppe - Region EUROPA (Inland)

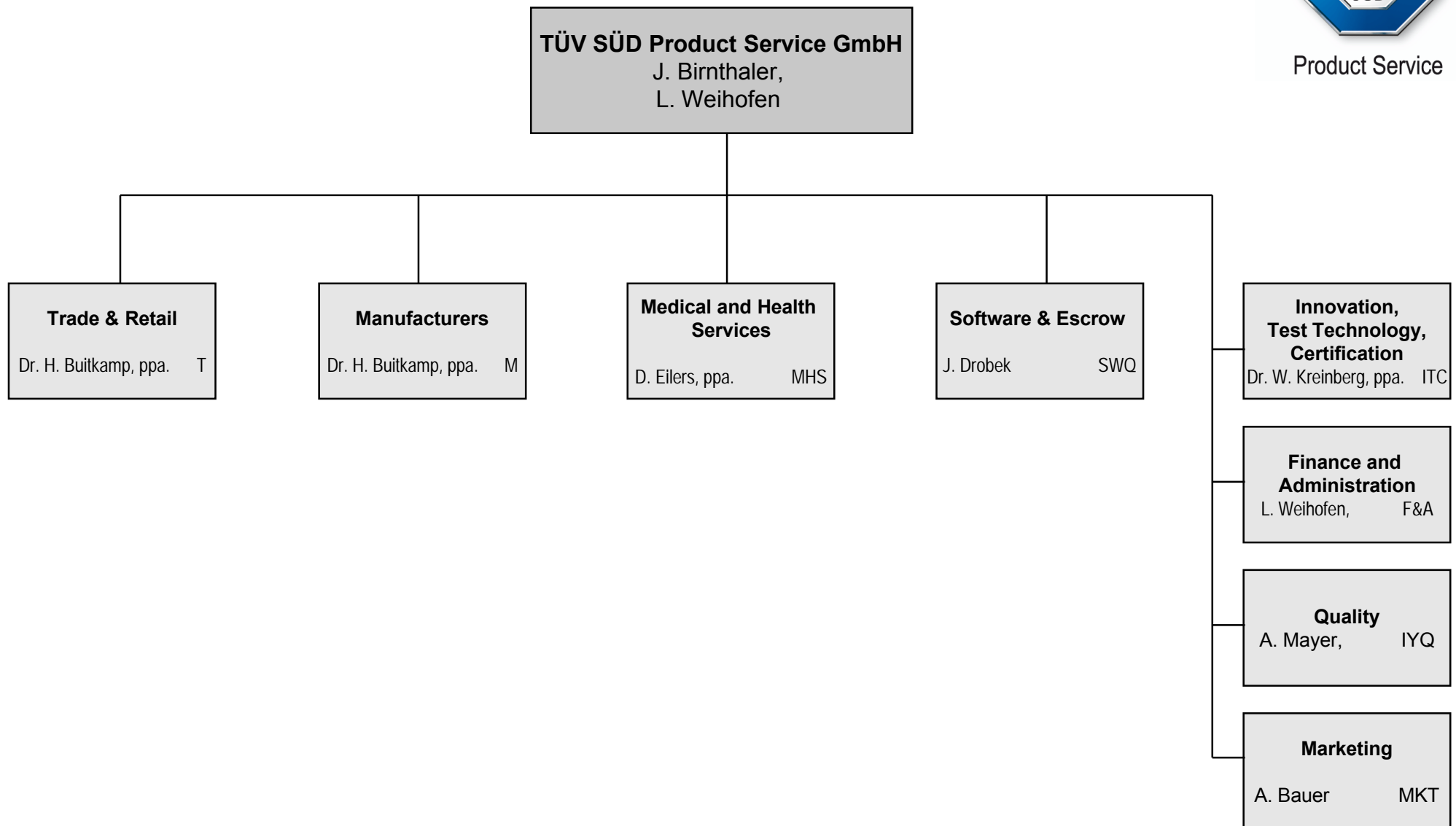
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Stand: März 2006



TÜV SÜD Product Service GmbH – Organigramm



Product Service



ORGANISATIONSTRUKTUR

ANNEX 4

Org.Ebene

TÜV SÜD Product Service GmbH, Innovation, Testtechnologie, Zertifizierung, ITC

ORGANIZATION CHART
PS – Organigramm; ITC, Innovation, Testtechnologie, Zertifizierung



Innovation, Testtechnologie,
Zertifizierung
Dr. W. Kreibitz, ITC, Leitung

INNOVATION, TESTTECHNOLOGY,
CERTIFICATION



CERTIFICATION ADMINISTRATION
FOR IECEx

TPS_C_01.08 Revision 1.3 Effektiv ab 01.07.2003
IÜV PRODUCT SERVICE GMBH

Freigegeben am

14.08.2003

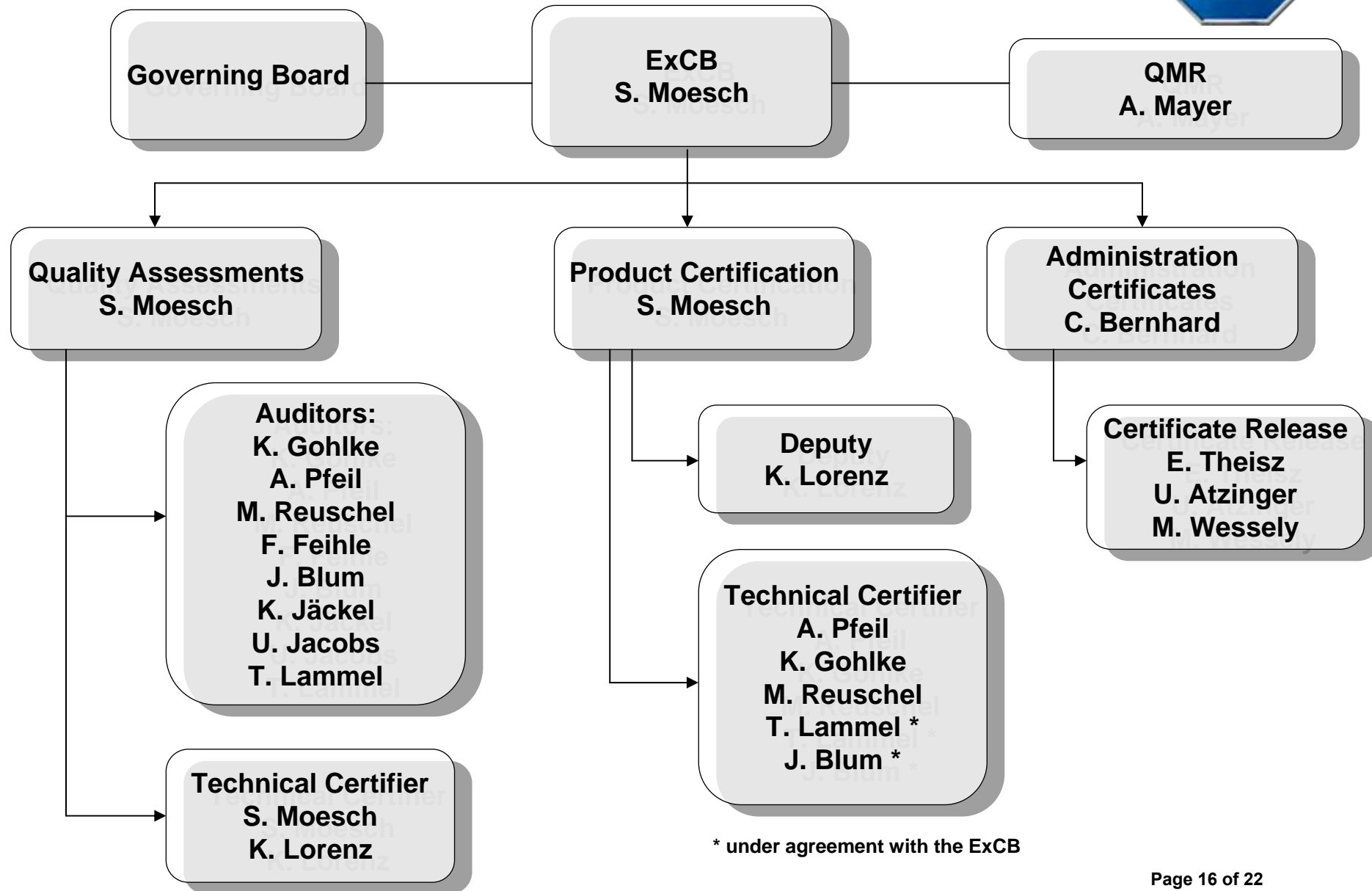
Dr. Wolfgang Kreibitz

Organisationsstruktur TÜV SÜD Product Service GmbH Deutschland
Finance & Administration, General Administration Feil

Ausgabe 37, 2006-30-04
Seite 12 von 51

ExCB: Ex Team Organization

Annex 5



AKKREDITIERUNG



Die Zentralstelle der Länder für Sicherheitstechnik (ZLS)

bestätigt hiermit, dass die

TÜV Product Service GmbH

Ridlerstrasse 65, D – 80339 München

die Anforderungen des § 9 Abs. 2 Gerätesicherheitsgesetz (GSG)
und der Norm DIN EN 45011 erfüllt sowie die Kompetenz besitzt,

Geräte zur bestimmungsgemäßen

Verwendung in explosionsgefährdeten Bereichen

im Geltungsbereich der EG-Richtlinie 94/9/EG

entsprechend den Bestimmungen

des Akkreditierungsbescheides Nr. 5.ZLS/3926-1/117/03

zu zertifizieren.

Die Akkreditierung ist gültig vom **01.07.2003** bis zum **30.06.2008**

Akkreditierungs-Nr.: **ZLS-ZE-397/03**

München, den 10.11.2003

Im Auftrag

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

Leiter der ZLS

ZLS im Bayerischen Staatsministerium für Umwelt, Gesundheit und Verbraucherschutz, 80792 München

AKKREDITIERUNG



Die Zentralstelle der Länder für Sicherheitstechnik (ZLS)

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Ridlerstrasse 65, D – 80339 München

die Anforderungen des § 9 Abs. 2 Gerätesicherheitsgesetz (GSG)
und der Norm DIN EN 45012 erfüllt sowie die Kompetenz besitzt,

QS-Systeme für Geräte zur bestimmungsgemäßen Verwendung in explosionsgefährdeten Bereichen

im Geltungsbereich der EG-Richtlinie 94/9/EG

entsprechend den Bestimmungen

des Akkreditierungsbescheides Nr. 5.ZLS/3926-1/118/03

zu zertifizieren.

Die Akkreditierung ist gültig vom **01.07.2003** bis zum **30.06.2008**

Akkreditierungs-Nr.: **ZLS-ZQ-214/03**

München, den 10.11.2003

Im Auftrag

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

Leiter der ZLS

ZLS im Bayerischen Staatsministerium für Umwelt, Gesundheit und Verbraucherschutz, 80792 München

ExMC/340/DV
August 2006Annex 8 – Matrix of Operation. **Status as of August 2006**

Ex Standard Number	Title	Ex TLs Proposed to Operate with TÜV SÜD Product Service GmbH, Munich, Germany (as the ExCB)	
		TÜV SÜD Automotive GmbH, Munich, Germany	TÜV SÜD Product Service GmbH, Filderstadt, Germany
Situation concerning acceptance as ExTL		Assessment completed Voting Report issued ExMC/341/DV	Assessment not yet completed
<u>60079-0</u>	Electrical apparatus for explosive gas atmospheres Part 0: General requirements	YES	Await Finalising of IECEx Assessment and ExMC acceptance
<u>60079-1</u>	Electrical apparatus for explosive gas atmospheres Part 1: Construction and verification test of flameproof enclosures of electrical apparatus	NO To wait for IBExU initial assessment and ExMC acceptance concerning certain clauses in Ex “d”	Outside scope of application
<u>60079-2</u>	Electrical apparatus for explosive gas atmospheres Part 2: Electrical apparatus, type of protection 'p' (Press.)	YES	Await Finalising of IECEx Assessment and ExMC acceptance
<u>60079-5</u>	Electrical apparatus for explosive gas atmospheres Part 5: Powder filling "q"	YES First projects to be presented to the assessment team	Outside scope of application
<u>60079-6</u>	Electrical apparatus for explosive gas atmospheres Part 6: Oil-immersion 'o'	YES First projects to be presented to	Outside scope of application

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August 2006

Ex Standard Number	Title	Ex TLs Proposed to Operate with TÜV SÜD Product Service GmbH, Munich, Germany (as the ExCB)	
		TÜV SÜD Automotive GmbH, Munich, Germany	TÜV SÜD Product Service GmbH, Filderstadt, Germany
Situation concerning acceptance as ExTL		Assessment completed Voting Report issued ExMC/341/DV	Assessment not yet completed
		the assessment team	
<u>60079-7</u>	Electrical apparatus for explosive gas atmospheres Part 7: Increased safety 'e'	YES <u>Limitations:</u> No rotating machines, luminaries and resistance heating devices	Await Finalising of IECEx Assessment and ExMC acceptance
<u>60079-11</u>	Electrical apparatus for explosive gas atmospheres Part 11: Intrinsic safety 'i'	YES	Await Finalising of IECEx Assessment and ExMC acceptance
<u>60079-15</u>	Electrical apparatus for explosive gas atmospheres Part 15: Electrical apparatus with type of protection 'n' (Non-Sparking)	YES	Await Finalising of IECEx Assessment and ExMC acceptance
<u>60079-18</u>	Electrical apparatus for explosive gas atmospheres Part 18: Encapsulation 'm'	YES	Await Finalising of IECEx Assessment and ExMC acceptance
<u>61241-0</u>	Electrical apparatus for use in the presence of combustible dust Part 0: General requirements	YES	Await Finalising of IECEx Assessment and ExMC acceptance
<u>61241-1-1</u>	Electrical apparatus for use in the presence of combustible dust Part 1: Electrical apparatus protected by	YES	Await Finalising of IECEx Assessment and ExMC acceptance

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Ex Standard Number	Title	Ex TLs Proposed to Operate with TÜV SÜD Product Service GmbH, Munich, Germany (as the ExCB)	
		TÜV SÜD Automotive GmbH, Munich, Germany	TÜV SÜD Product Service GmbH, Filderstadt, Germany
Situation concerning acceptance as ExTL		Assessment completed Voting Report issued ExMC/341/DV	Assessment not yet completed
	enclosures Section 1: Specification for apparatus		
<u>61241-4</u>	Electrical apparatus for use in the presence of combustible dust Part 4: Type of protection 'pD'	YES	Await Finalising of IECEx Assessment and ExMC acceptance
<u>61779-1</u>	Electrical apparatus for the detection and measurement of flammable gases Part 1: General requirements and test methods	YES	Outside scope of application
<u>61779-2</u>	Electrical apparatus for the detection and measurement of flammable gases Part 2: Performance requirements for group I apparatus indicating a volume fraction up to 5% methane in air	YES	Outside scope of application
<u>61779-3</u>	Electrical apparatus for the detection and measurement of flammable gases Part 3: Performance requirements for group I apparatus indicating a volume fraction up to 100% methane in air	YES	Outside scope of application
<u>61779-4</u>	Electrical apparatus for the detection and		Outside scope of application



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Ex Standard Number	Title	Ex TLs Proposed to Operate with TÜV SÜD Product Service GmbH, Munich, Germany (as the ExCB)	
		TÜV SÜD Automotive GmbH, Munich, Germany	TÜV SÜD Product Service GmbH, Filderstadt, Germany
Situation concerning acceptance as ExTL		Assessment completed Voting Report issued ExMC/341/DV	Assessment not yet completed
	measurement of flammable gases Part 4: Performance requirements for group II apparatus indicating up to 100% lower explosive limit	YES	
<u>61779-5</u>	Electrical apparatus for the detection and measurement of flammable gases Part 5: Performance requirements for group II apparatus indicating a volume fraction up to 100% gas	YES	Outside scope of application