



ExMC/177/Inf
2003 09

INTERNATIONAL ELECTROTECHNICAL COMMISSION

**IEC SCHEME FOR CERTIFICATION TO STANDARDS FOR ELECTRICAL
EQUIPMENT FOR EXPLOSIVE ATMOSPHERES (IECEx SCHEME)**

CIRCULATED TO: ExMC

Title: IECEx Assessor Application

Introduction

An application for the appointment of Dr Wolf Dill as an IECEx Assessor has been received.

The Chairman of the IECEx Assessor Panel, Mr Jim Munro, and the IECEx Secretary, have reviewed the attached Assessor application and recommend the acceptance of Dr Wolf Dill under the categories of C and T.

C Product Certification
T Product Test

The document is issued for your information.

Accordingly, ExMC will be required to consider the acceptance of Dr Wolf Dill as an IECEx Assessor during the ExMC October 2003 Budapest meeting

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
Internet : www.iecex.com

IECEx Assessor Questionnaire

| | | | | | |
|-----------|-----------------------|----------------------|--------------|------------------------|-------------------------|
| Surname | Dill | Forename | Wolf | Title (Mr, Ms, Dr etc) | Mr. (Dr.) |
| Address | Toepferstr. 5 | | Selm | | |
| Country | Germany | Area/Zip/Postal Code | 59379 | | |
| Telephone | +49 2306 61780 | Fax | | E mail | wolf.dill@gmx.de |

Education:

| | |
|------|---|
| Date | Qualification |
| 1971 | Electrical Engineering Diploma, Technical University Aachen, Germany |
| 1981 | Dr.-Engineer, Control Engineering / Mining Machinery, T.U. Aachen |

Current CV and list of publications attached.**Membership of Professional Bodies**

| | | |
|------|---|----------------------|
| Date | Body | Grade of membership |
| 1986 | Association of German Electrical Engineers (VDE) | Member |
| 1998 | Instrument Society of America (ISA) | Senior Member |

Training:

| | | | |
|------|-------------------|--------------|----------|
| Date | Training Provider | Course Title | Duration |
|------|-------------------|--------------|----------|

| | | | |
|-------------------|------------------------------|--|--|
| Experience | Employer | Type of Business | Duties |
| Dates (from/to) | | | |
| 1981-1985 | BVS | Member of scientific staff, electrical department | Research, certification |
| 1985-1986 | BVS | Head of Intrinsic Safety laboratory | Testing, Research |
| 1986-2002 | BVS (since 1990 part of DMT) | Head of electrical department, head of Notified Body BVS | manager testing + certification |
| 2001 | DMT | Deputy head of DMT certification body | Certification of products and of Quality systems (3 EU directives) |

Assessment/audit experience

| | | | |
|---|---------------------|----------------|---------------|
| Number of external assessments/audits carried out in past two years | Lead Auditor | Auditor | Expert |
| | 2 | 2 | 2 |
| Number of external assessments/audits days in past two years relevant to assessment of Ex certification bodies and testing laboratories | | 2 | 2 |

Referees who may be contacted to ascertain personal attributes and management capabilities relevant to assessment of IECEx certification bodies and testing laboratories (ISO 10011-2 : 1991 Clauses 7 and 8)

| | | | |
|-------------|---|-----------|----------------------------|
| Surname | Valbuena | Title | Lead Assessor |
| Forename(s) | Andrea | Country | Germany |
| Address | DAP – Deutsches Akkreditierungssystem Prüfwesen Agastir. 24, D-12489 Berlin | Telephone | +49 30 670591 10 |
| | | E-Mail | valbuena@dmtd.de |
| Surname | Saegesser | Title | Lead Assessor |
| Forename(s) | Richard | Country | Switzerland |
| Address | Schweizerische Akkreditierungsstelle (SAS) Bundesamt fuer Metrologie und Akkreditierung Lindenweg 50, CH 3003 Bern-Wabern | Telephone | +41 31 32 33 521 |
| | | E-Mail | richard.saegesser@metas.ch |
| | | Fax | +41 31 32 33 510 |

The proposed daily fee for my service is 1000 CHF **(Standard fee determined by the IECEx Scheme)** The fees will be invoiced by me **X**
(Note: Fees are subject to acceptance by the Ex certification Committee and by applicants. Travel and living expenses will be reimbursed in addition to daily fees).
If appointed as an IECEx assessor I will conduct my work to the requisite standard of integrity, competence, impartiality and confidentiality.
I certify that the information given in this questionnaire is true and correct.

Signed:



Date: 2003-08-11

Endorsed by IECEx Member Body

On behalf of the German member Body of the IECEx, I confirm that the details given in this questionnaire have been checked and found to be correct and has our support.

Signed:



Name:

Dr. Thies
German Member Body
of IECEx

Date: 2003-08-11

CURRICULUM VITAE

- 1. Family name:** Dill
2. First names: Wolf Gisbert
3. Date of birth: 16.07.1944
4. Nationality: German
5. Civil status: married, two sons
6. Education:

| from (month/year) | to (month/year) | Institution | Degree(s) or Diploma(s) obtained |
|----------------------|--------------------|-----------------------------|---|
| 1964 | 1971 | Technical University Aachen | Discipline: Electrical Engineering, Communication Engineer. Degree: Dipl.-Ing. (Licensed Engineer). |
| 1971 | 1980 | Technical University Aachen | Discipline : Control engineering, mechanical engineering: coal plough drives Degree: Dr.-Ing. (Ph. D.) |
| | 1981 | Technical University Aachen | Award of the Borchers-Medal of the Technical University Aachen for an excellent doctor examination |

7. Language skills (Mark 1 to 5 for competence) - 5 = High

| Language | Reading | Speaking | Writing |
|----------|---------|----------|---------|
| German | 5 | 5 | 5 |
| English | 5 | 5 | 5 |
| French | 3 | 3 | 2 |
| Dutch | 4 | 2 | 2 |
| Italian | 3 | 2 | 2 |
| Russian | 3 | 3 | 2 |

8. Membership of Professional Bodies:

Association of German electrical engineers (VDE)
Instrument Society of America (ISA)
Friends of the Technical University Aachen (FAHO)

9. Other Skills:

- Member of the German Governmental Commission for electrical systems in hazardous areas (1983 - 1996), deputy member representing the German notified bodies. (1997- 2002)
- Member of the working party „Electricity“ of the „Standing committee for the health and safety in the mining industry and other extractive industries“ (Commission of the EC, Luxemburg).
- Deputy chairman of the national electrical committee for the standardization of electrical equipment for hazardous areas (1988 – 2002).

- Member of the German delegation for CENELEC/TC 31 (1986 – 2002).
- Member of the HOTL (Ex-Notified Bodies, Directives 76/117/EEC, 82/130/EEC) - resp. ExNB-group (Ex-Notified Bodies, Directive 94/9/EC) of the EC Commission, Brussels (1986 – 1998).
- Chairman of the group ExTAG of the Accepted Certification Bodies (ACB) and Testing Laboratories (ExTL) of the IEC-Certification Scheme IECEx. (1997 – October 2003)
- Lecturer for „Explosion Protection“ as a part of the lectures in the field „Protection against Disasters“ at the engineering college, Bochum, (1991 – 1999).
- Witness expert for Germany (approved by regional government 2003) for safety of electrical equipment and explosion protection

10 Present position:

Independent Consultant (since 01.07.2002)

Last position in Company DMT (Deutsche Montan Technologie), Essen, until 30.06.2002:

- Head of unit Electrical Engineering / Explosion Protection (Gas & Fire Division)
- Head of DMT Expert Body for Safety of Electrical Equipment (BVS) = Notified Body according to Directive 76/117/EEC and 82/130/EEC; accredited laboratory according to Directive 94/9/EC
- Deputy Head of DMT Certification Body (accredited and notified body No. 0158 according to Directives 94/9/EC, 89/686/EEC, 98/37/EC, 90/385/EEC)

11 Years within DMT company

21

12 Key qualifications:

Development and application of national, European and international standards

Organising or giving presentations on seminars about ATEX-Directives in Europe, USA and Russia

Quality Management, testing, certification, international co-operation

Assessment of certification bodies, assessment of testing laboratories

(Assessor for the German Accreditation System Testing (DAP) and Swiss Accreditation Body SAS)

15 years deputy chairman of national ATEX standardisation committee K241 of DKE (DIN/VDE)

6 years chairman the group ExTAG of the Accepted Certification Bodies (ACB) and Testing

Laboratories (ExTL) of the IEC-Certification Scheme IECEx

13 Specific experience in Eastern Europe

| country | objectives | from (month/year) | to (month/year) |
|----------|--|--------------------------|--------------------|
| Russia | Team Leader in TACIS - Project ERUS 9706 "Certification and Harmonisation of Gas Sector Equipment" Delegation leader for a Russian delegation (Gosgortekhnadzor, certification bodies and testing laboratories) visiting primarily EA, CEN and CENELEC in Berlin and Brussels | 12/1999 | 30.06.2002 |
| Slovenia | 2 Presentations about European regulations | 11/1996 | |

| | | | |
|-----------------|--|---------|--|
| | at the Seminar on Electricity in Mining, Topolsica | | |
| Czech Republic | TAIEX- Expert Mission to the Czech Mining Authority, Praha | 12/1996 | |
| Ukraine | Presentation about standards for electrical safety and explosion protection on an IEC-seminar for Dershstandart in Kiev | 06/2001 | |
| Slovenia | Presentation about EC-Directives, international seminar about explosion safety, Bohinj, | 10/2001 | |
| Slovak Republic | Two day presentation in a seminar for Institutional Development in the field of Standards and Certification for the Slovak standardisation body (SUTN), Twinning Project SR99/IB/EC-01 | 10/2002 | |

14 Professional Experience Record:

| from (month/ year) | To (month/ year) | Location | Company | Position | Brief Description |
|--------------------------|------------------------|----------|--|--|--|
| 1971 | 1973 | Aachen | Technical University | post-graduate scholarship | Computer simulation of mechanical forces in machinery components |
| 1973 | 1980 | Aachen | Technical University | Assistant professor | Research, lecturing mining equipment, measurement & control |
| 1981 | 1985 | Dortmund | WBK-BVS | Research and testing engineer | Safety research, explosion testing Intrinsic safety |
| 1985 | 1986 | Dortmund | WBK-BVS | Head of IS laboratory | Safety research, explosion testing Intrinsic safety |
| 1986 | 2002/06/30 | Dortmund | DMT Gas & Fire Division (formerly WBK-BVS) | Head of unit Electrical Engineering / Explosion Protection Head of DMT Expert Body for Safety of Electrical Equipment (BVS) | Notified Body according to Directive 76/117/EEC and 82/130/EEC; accredited laboratory according to Directive 94/9/EC |
| 1999 | 2002/06/30 | | DMT | Deputy Head of DMT Certification Body | Accredited and notified body No. 0158 according to Directives 94/9/EC, 89/686/EEC, 98/37/EC, 90/385/EEC |

Updated/Reviewed: 07/08/2003 W.D.

1. Requirements for Equipment for Use in Mines (with emphasis on the Federal Republic of Germany). Exporting Electrical Equipment for use in Flammable Atmospheres. Proceedings of the THE conference 15.02.1983. Technical Help to Exporters, Hemel Hempstead, GB.
2. Die Prüfung des Schlagwetterschutzes nach der Elektrozulassungs-Bergverordnung. Glückauf (120) Nr. 9, Mai 1984. ISSN 40-7896
3. Reducing Explosion Risks by New Techniques - results of recent investigations by BVS. Fourth International Conference on Electrical Safety in Hazardous Areas. Conference Publication No. 296, Institution of Electrical Engineers (IEE), London. (Co-Autoren: G. Arnold, H. Groh, H. Riechert)
4. Analysis of the dynamic behaviour of electronically regulated power supplies as a substitute for testing intrinsic safety by spark ignition tests in explosive mixtures, 23. International Conference of Safety in Mines Research Institutes, Washington 1989, Conference Proceedings. (Co-Author: G. Kanty)
5. Ex-geschützte Elektrotechnik - funktionierender Binnenmarkt vor dem Umbruch. Elektrotechnische Zeitschrift etz Bd. 112 (1991) Heft 20, S. 1080. ISSN 0170-1711
6. Schlagwetterschutz damit's nicht knallt. Arbeit und Sicherheit 45 (1992), Nr. 5, S. 5. ISSN 0344-239X.
7. Auch Knallgas darf nicht knallen. Arbeit und Sicherheit 45 (1992), Nr. 6, S. 6-7. ISSN 0344-239X.
8. Intrinsic Safety: Design of complex systems, case studies. World Seminar on the explosion phenomenon and on the application of explosion protection techniques in practice, Brussels 1992, Proceedings of Section 2.
9. "Ex"-Richtlinien-Entwurf nach Artikel 188a EWG-Vertrag. 12. Sachverständigen-Seminar Explosionsschutz elektrischer Anlagen. ABB CEAG Sicherheitstechnik Druckschrift Nr. 1059/800/7.93 D, Soest, 1993.
10. Laden von Traktionsbatterien in schlagwettergefährdeten Bereichen (Charging of traction batteries in areas endangered by firedamp). DMT-Berichte aus Forschung und Entwicklung Nr. 18, Bochum 1993. ISSN 0941-4282. (Co-Autor mit H. Wenzel, H. Groh)
11. Explosionsschutz in der EG - Entwurf einer Richtlinie nach Artikel 118a EWG-Vertrag. TÜ - Technische Überwachung 34 (1993) Nr.6, S. 252 - 256, ISSN 0376-1185.
12. Explosionsschutz in der Europäischen Gemeinschaft - Entwurf einer Richtlinie nach Artikel 118a EWG-Vertrag. Ex-Zeitschrift September 1993, S. 13 - 16, ISSN 0176-2419
13. Electrical equipment for use in explosive firedamp concentrations - Safety concepts and apparatus design, new German legislation and draft EEC directives. 25th International Conference of Safety in Mines Research Institutes, Pretoria 1993. Conference Papers Day One, S. 51-60
14. Explosion Protection in the EC: Drafting a Directive according to Article 118a of the EC Treaty. Ex-Magazine No. 19 December 1993, S. 4 - 7, ISSN 0176-2419
15. 100 Jahre Bergbau-Versuchsstrecke - 100 Jahre Explosionsschutz. Ex-Zeitschrift Nr. 27, September 1995. ISSN 0176-2419
16. 100 years of the explosion test station "BVS" - 100 years explosion protection. Ex-Magazine Nr. 21, October 1995, ISSN 0176-2419

17. The future in CENELEC and ELSECOM, Certification of Electrical Equipment in Potentially Explosive Atmospheres, Post Conference Proceedings, CENELEC, Brussels 1995, ISBN 2-930092-02-5
18. Staubexplosionsschutz elektrischer Betriebsmittel. (Dust explosion protection of electrical equipment) VdS 2446, Tagungsband der Fachtagung "Staubexplosionsschutz", Verband der Schadenversicherer, Schulung und Information, Köln 1996
19. Explosionsschutz: Festung Europa oder Weltmarkt mit IEC? Elektrotechnische Zeitschrift etz, Bd. 116 (1995) Heft 19. ISSN 0170-1711
20. Explosionsschutz: Neue Regelungen in der EG. Technische Überwachung (Co-Author: J. Kiesewetter) TÜ Bd. 37 (1996) Mai 1996, ISSN 0376-1185
21. Der Explosionsschutz-Weltmarkt: Fortschritte mit dem IEC-Zertifizierungssystem für den Explosionsschutz Ex-Zeitschrift Nr. 28, Juni 1996. ISSN 0176-2419
22. The world market for explosion protection: Progress with the IEC certification scheme? Ex-Magazine Nr. 22, 1996, ISSN 0176-2419
23. Elektrische Energiespeicher - Erprobung neuer Batteriesysteme unter praxisnahen Bedingungen (Electrical energy storage equipment - testing of new concepts for batteries under conditions near reality) (Co-Author: Wenzel, Hubert). DMT-Berichte aus Forschung und Entwicklung. Nr. 46 Bochum 1996. ISSN 0941-4282
24. Explosion protected electrical equipment and systems for mines susceptible to firedamp - protection concepts and state of the art (with emphasis on the situation in Germany) Prvi slovenski seminar o elektrotehniki v rudarstvu, Topolsica (Slovenia) 1996, Conference proceedings
25. European directives and standards for explosion protection of mining equipment - actual practice and the new approach. Prvi slovenski seminar o elektrotehniki v rudarstvu, Topolsica (Slovenia) 1996, Conference proceedings
26. -Prüfung und Zertifizierung elektrischer Geräte, Tagungsband des Seminars "Die ATEX-Richtlinien der EG" am 10. und 11. September 1997 in Dortmund. / Testing and certification of electrical equipment, Proceedings of the seminar "The ATEX-Directives of the EC", 10. and 11. September 1997 in Dortmund.
27. EG-Richtlinien und Europäische Normen für explosionsgeschützte elektrische Betriebsmittel. Vortrag bei DEGUSSA in Hanau am 04.02.1998
28. European directives and standards for explosion-protection of mining equipment - the new approach of the European Union and actual practice. ISSA congress publication. Proceedings of the ISSA conference about Safety in Mines in Budapest, September 1998.
29. Gesetzliche Regulierung und Normen für den Explosionsschutz elektrischer Betriebsmittel (S.11-13). Allgemeine Bestimmungen EN 50014 und FM 3600 (S.20 - 23). Tagungsband des DMT-Seminars: Zulassung explosionsgeschützter elektrischer Betriebsmittel für den europäischen und US-amerikanischen Markt, Dortmund, 17. September 1998
30. EG-Richtlinien und Europäische Normen für explosionsgeschützte elektrische Betriebsmittel- Praktische Erfahrungen bei der Umsetzung der Explosionsschutzverordnung. Vortrag im Rahmen der

- Fortbildungsveranstaltung "Explosionsschutzverordnung" im Niedersächsischen Ministerium für Frauen, Arbeit und Soziales, Hannover, 02.09.1998
31. European Requirements for Electrical Equipment in Hazardous Locations, CE Marking and ATEX Certification, Exhibitor-sponsored training course MT09, 10-23-1998, ISA EXPO98 - Houston, Texas
 32. Gesetzliche Regulierung und Normen für den Explosionsschutz elektrischer Betriebsmittel. Allgemeine Bestimmungen EN 50014 und FM 3600, Tagungsband des DMT/FMRC-Seminars: Zulassung explosionsgeschützter elektrischer Betriebsmittel für den europäischen und US-amerikanischen Markt, Dortmund, 21. Oktober 1999
 33. "Produktprüfung unter der neuen Richtlinie" Vortrag im Rahmen der ZVEI-Tagung am 8. Dezember 1999 "Die neue ATEX 100a-Richtlinie: Praxisseminar und Erfahrungsaustausch für die Elektrotechnik", Zentralverband der Elektrotechnischen und Elektronik-Industrie, Frankfurt
 34. Explosionsschutz: Erste Erfahrungen mit der Anwendung der Richtlinie 94/9/EG für elektrische Geräte und Gaswarngeräte (Co-Author: Kiesewetter, J.), TÜ Bd. 41 (2000) Nr. 5 Mai 2000, ISSN 0376-1185
 35. Das IECEx-Zertifizierungsabkommen, Ziele, Status, Vorteile und noch zu lösende Aufgaben. Vortrag auf dem Explosionsschutz-Symposium der Fa. STAHL in Weimar, 2000
 36. Das IECEx-Schema für die Zertifizierung. Ex-Zeitschrift Nr.32/2000, R. Stahl, Künzelsau, ISSN-0176-2419
 37. Die neue Explosionsschutzrichtlinie 94/9/EG ("ATEX") Prüfung und Zertifizierung von Geräten und Schutzsystemen auf Grundlage der neuen Richtlinie. Vortrag im Rahmen der VDI-Arbeitskreises Verfahrenstechnik bei der Th. Goldschmidt AG am 12. Dezember 2000 in Essen
 38. Richtlinie 94/9/EG ("ATEX"): Prüfung und Zertifizierung von Geräten und Schutzsystemen auf Grundlage der neuen Richtlinie. Vortrag im Rahmen der Fortbildungsveranstaltung des Landesumweltamtes Nordrhein-Westfalen "Explosionsschutz in Anlagen nach der 12. BImSchV" am 07. und 08. Dezember 2000 in Essen
 39. The IECEx Scheme for Certification. Ex-Magazine 2000, R. Stahl, Künzelsau, ISSN 0176-0920.
 40. The Situation in the Russian Federation and the approach to join IEC and the IECEx Scheme. (Co-Author: Dr. Alexander Zalogine. Proceedings of IEEE / PCIC-Conference The Impact of the Iecex Scheme on the Global Availability of Explosion Protected Apparatus – Update 2000, Rome, 2000.
 41. Neue Ansätze bei der Normung für elektrische Geräte (IEC/CENELEC). Sichere Handhabung brennbarer Stäube. VDI-Bericht 1601. VDI-Verlag Düsseldorf 2001, ISSN 0083-5560, ISBN 3-18-091601-X
 42. Equipment for Explosive Atmospheres: TC31 and IECEx. Presentation on an IEC-organized seminar about standardisation in Kiev, Ukraine, 2001
 43. Application of Directive 94/9/EC for industries with gas and dust explosion hazard and in the coal mining industry. Presentation on the seminar "SIQ Mednarodni seminar o protieksplodzijski zašiti" 17. in 18. Oktober 2001, Bohinj, Slovenia
 44. CH₄-Abschaltgrenze und Weiterbetrieb von eigensicheren Anlagen (Firedamp concentration cut-off and continuation of operation of IS systems), DMT-Berichte aus Forschung und Entwicklung, Nr. 90. Deutsche Montan Technologie GmbH, Bochum 2001. ISSN 0941-4282

45. Understanding IECEx certification. InTech, April 2001, ISA Services Inc., New York, ISSN 0192-303X
46. Directive 94/9/EC: ATEX Equipment and protective systems intended for the use in potentially explosive atmospheres, Paper for a two-day-lecture for a Phare/Twinning seminar 8./9. October 2002, Bratislava, Slovak Republic
47. Eigensicherheit und Hochfrequenz – Das Zündverhalten elektrischer Stromkreise bei Frequenzen oberhalb technischer Wechselströme. Ex-Zeitschrift Nr.35/2003, R. Stahl, Künzelsau, ISSN-0176-2419 (Co-Autor: R. Hauke)
48. Intrinsic Safety and High Frequencies – Ignition behaviour of electrical circuits at frequencies above technical alternating currents. Ex-Magazine 2003, R. Stahl, Künzelsau, ISSN-0176-2419

Aktualisierung / Updated: 27.07.2003

Daten zur Weitergabe an Akkreditierungsstellen, Behörden oder Forschungsträger freigegeben / Release to transfer these data to accreditation bodies, public authorities or research funding organisations:

Datum, Unterschrift / Date, Signature:

signed: Dill

27.07.2003