



ExMC/145/R
2002 10

**INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC SCHEME FOR CERTIFICATION TO STANDARDS FOR SAFETY
OF ELECTRICAL EQUIPMENT FOR EXPLOSIVE ATMOSPHERES
(IECEx SCHEME)**

**Title: IECEx Assessment Report for the acceptance of TestSafe as an
Accepted Certification Body within the IECEx Scheme.**

This document contains the IECEx Assessment Report for TestSafe

**Following assessment the Assessment team recommends acceptance of
TestSafe as an Accepted Certification Body within the IECEx Scheme.**

**This report has been issued for consideration during the next ExMC
Meeting being held in Seoul October 2002 under Item 8 of Draft
Agenda ExMC/127A/DA.**

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ANNEX A - IECEx ASSESSMENT REPORT FORM For ACB (Accepted Certification Body)

Type of Assessment:

Initial Assessment for Candidate ACB

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~~Surveillance Assessment for existing ACB~~

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1. OBJECT AND FIELD OF APPLICATION

1.1 *Country:* **Australia**

1.2 *Name of Candidate ACB*

TestSafe Australia

1.3 *Members of The Assessment Team*

Trond Sollie **Nemko, Norway (Lead Assessor)**
John Bossert **Hazloc, Canada, (Assessor)**
Janos Hanklo **BKI, Hungary, (Assessor)**

1.4 *Place And Date Of Assessment*

TestSafe, 919 Londonderry Road, Londonderry, NSW, Australia

Site Assessment conducted by Mr John Bossert, 23+24 September 2002-09-24.

Initial review of quality manual and relevant documentation performed by Trond Sollie, who as the lead assessor has also been responsible for general coordination and finalisation of the assessment report.

1.5 *Assessment References*

Document:

- i) IECEx 02 First Edition
- ii) IECEx Operational Document OD/003
- iii) ISO/IEC Guide 65 1996
- iv) ACB application documents dated, original application August 1999, amended September 2002



1.6 *Scope Of Application*

Product Category	Standard
General Requirements	IEC 60079-0
Flameproof Ex d	IEC 60079-1
Pressurised enclosures Ex p	IEC 60079-2
Powder Filling Ex q	IEC 60079-5
Oil Immersion Ex o	IEC 60079-6
Increased safety Ex e	IEC 60079-7
Intrinsic safety Ex i	IEC 60079-11
Type of Protection ‘n’	IEC 60079-15*
Encapsulation Ex m	IEC 60079-18
Dust Ignition Proof	IEC 61241-1-1
Gas Detectors	IEC 61779 -1 to 5

*Technical Report

1.7 *Candidate ACB Persons Interviewed*

Name	Position
Mr Jim Munro	Director
Mr Vince Higginbotham	Manager, Special Projects
Mr Tony Martin	Quality Manager
Mr Ajay Maira	Branch Manager, Low Current
Mrs Gordana Manojlovic	Branch Manager, High Current
Mr Ravi Johnpulle	TestSafe Business Manager

1.8 *Legal Entity Of The Candidate ACB*

Part of the New South Wales State Government, WorkCover Authority

1.9 *Associated Testing Laboratories*

<i>Names of Laboratories</i>	<i>Address</i>
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TestSafe have their own integral ExTL at the same address and also an agreement to use Mineral Resources Safety in Mines Testing Laboratory (Located at Lidcombe NSW), for performance tests on Gas Monitors, previously accepted by the IECEx Management Committee.

1.10 *Associated Certification Functions*

Ex Certification at National Level

1.11 *National Marks And Certificates*

TestSafe operate as a National Certification Body as part of the National Ex Certification Scheme, in Australia, known as “AUSEx’ Scheme.

1.12 *Financial Support*

Majority self-funding on a fee for service basis, but also includes funding from WorkCover.



1.13 *History*

Initially as a testing laboratory, TestSafe have operated since 1970 and was originally established for testing and research of equipment and materials for use in underground coal mines. It has since become involved in testing and certification for all equipment for use in Explosive atmospheres.

1.14 *Standards Accepted*

See 1.6 above

1.15 *National Differences To IEC Standards*

As Australia has adopted all relevant IEC TC31 Standards, there are no national differences to declare.

2. ORGANISATION

2.1 *Names, Titles And Experience Of The Senior Executives*

Name	Title	Experience
Mr Jim Munro	Director	More than 20 years experience in Ex testing and certification (also current Chairman of IEC TC 31 and SC 31L)

2.2 *Name, Title And Experience of The Quality Management Representative*

Name	Title	Experience
Mr Tony Martin	Quality Manager	More than 5 years experience in Quality Management Systems

2.3 *Name And Title of Nominated Principal Contact*

Name	Title	Comments
Mr Jim Munro	Director	

2.4 *Name and Title of Signatories for Certification*

Name	Title	Comments
Mr Jim Munro	Director	

2.5 *Other Employees in ACB activity*

Name	Title	Responsibility
Mr Ajay Maira	Manager, Elect LC	Manager of the Low Current Branch
Mrs Gordana Manojlovic	Manager Elect. HC	Manager of the High Current Branch

Total of 16 other technical staff involved in Ex testing and certification.



2.6 *Organisational Structure*

See Organisational chart, attached.

2.7 *Administration*

2.7.1 Administrative Structure

There is an Ex Testing Department which conducts the product testing and assessment. This is separate to the certification function which includes an independent certification review. This is reflected in the TestSafe Certification Manual which is part of the Quality Management System.

A Customer Services Unit, handles the administrative aspects of applications for testing and certification.

2.7.2 Terms of Reference of the Governing Board

TestSafe have established a “TestSafe Certification Committee” to oversee TestSafe’s certification activities. The terms of reference as described in Work Instruction GGP020 include approval of policy and dealing with appeals.

3. RESOURCES

(Verification that ACB has all necessary resources for its operation in-house, including personnel trained and experienced in factory inspection / quality audits).

The site assessment revealed sufficient Human and other resources to meet the requirements of the IECEx Scheme.

4. COMMITTEES

The “TestSafe Certification Committee”, as described in Work Instruction GGP020, represents the different concerned interests, thus having a composition that ensures impartiality.

The TestSafe Management and Staff actively participate in various external national and international committees, e.g:

Mr Jim Munro Chairman IEC TC 31, SC 31 L, Member IEC ExMC
Mr Ajay Maira IEC SC 31G, Convenor SC 31G, Maintenance Team 4
Mrs Gordana Manojlovic IEC, SC 31 A, Maintenance Team 7

5. CERTIFICATION OPERATIONS

5.1 *National Approval/Certification Methods*

TestSafe have national approval as a Certification Body to operate Ex certification at the national level. Currently, the national scheme does not provide for the issuing of a Certification TradeMark.



5.2 *Certification Policy*

TestSafe's Certification Policy is incorporated into their Quality Manual which was sighted during the Site Assessment visit.

5.3 *Staff Work Instructions*

Detailed Procedures and Work Instructions for staff are included as part of the TestSafe Quality System. This includes a dedicated TestSafe IECEx Certification Manual.

5.4 *Application for Certification*

Dedicated Application forms are available to applicants for TestSafe's services. Applications are accepted from applicants that meet IECEx Scheme criteria, including overseas applicants.

6. STATISTICS

Certificates issued during the past 2 years:

		Total
flameproof	d	153
intrinsic safety	i	175
increased safety	e	33
special	s	37
powder filled	q	0
encapsulated	m	11
type	n	41
pressurised	p	0
Gas Detectors		28
Apparatus for Dusts		22
TOTAL		378

7. DOCUMENTATION

7.1 *Document - and Change Control*

Covered by the TestSafe Quality Management System, verified during the ISO/IEC Guide 65 assessment.

8. RECORDS

TestSafe complies with NSW State Legislation and apply a minimum of 30 years record retention from the date of last activity.

9. CONFIDENTIALITY

All TestSafe Staff and Contractors personnel must sign a confidentiality agreement.

10. PUBLICATIONS

Mr Jim Munro is author of the first edition of the Standards Australia Handbook for Hazardous areas, HB 13. In addition, staff have prepared and presented various technical papers.



11. APPEALS

A dedicated appeals procedure is included as part of the Quality Management System.

12. NATIONAL ACCREDITATION

TestSafe are working towards National Accreditation by Joint Accreditation Scheme -Australia New Zealand (JAS-ANZ), to ISO IEC Guide 65. JAS-ANZ have successfully conducted the documentation review and are planning the on-site audit for 6 and 7 November 2002.

13. RECOGNITION AND AGREEMENTS

TestSafe operate a number of international agreements, including:

PTB	Germany
DMT	"
FM	USA
SABS	South Africa
SIRA	United Kingdom
LCIE	France
CQST	China
NEPSI	"
Japanese Government	

14. QUALITY MANUAL

TestSafe maintain a comprehensive Quality Manual and subordinate procedures which were reviewed, in detail as part of the ACB assessment.

15. INTERNAL AUDIT AND PERIODIC REVIEW

TestSafe conducts internal audits as part of their Quality Management System. Evidence of these audits was noted during the on-site assessment.

16. COMPLAINTS

The dealing of complaints is covered by the TestSafe Quality System, which includes a dedicated procedure.

17. WITHDRAWAL AND CANCELLATION OF CERTIFICATES

The procedure for withdrawal and cancellation of certification is covered by the Certification Manual

18. SPECIAL FACTS TO BE NOTED

There were no non-conformities nor matters requiring rectification, raised during either the document review or site assessment visit. TestSafe have considerable experience in the field of Ex testing and certification.



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19. RECOMMENDATION

The Assessment Team Hereby recommends full acceptance of TestSafe as an IECEx Accepted Certification Body for the standards listed in item 1.6 of this report, in accordance with the Scheme Rules, IECEx 02.

LIST OF ANNEXES

A. Organisation Chart.

A handwritten signature in black ink, appearing to read 'T. Sollie', is positioned above the signature line for Trond Sollie.

John A. Bossert

Janos Hanko

Trond Sollie (Lead Assessor)

TESTSAFE AUSTRALIA

ORGANISATIONAL CHART

SEPTEMBER 2002

