

**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 Surveillance report for Korea Gas Safety Corporation (KGS)
an accepted ExCB including an extension to scope**

INTRODUCTION

This document contains the IECEX Surveillance report for Korea Gas Safety Corporation (KGS) an accepted ExCB and includes a report on the assessment for extension of scope .

The application for scope extension is issued for voting on during the ExMC Shanghai Meeting.

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 Internet: www.iecex.com
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IECEX EXTENSION OF SCOPE AND SURVEILLANCE FOR KGS, REPUBLIC OF KOREA

ExCB (Accepted Certification Body)

Type of Assessment:

Extension of scope and surveillance for ExCB

1. OBJECT AND FIELD OF APPLICATION

1.1 *Country:*

Republic of Korea

1.2 *Name of Candidate ExCB*

Institute of Gas Safety R&D Korea Gas Safety Corporation (KGS)

1.3 *Members of the Assessment Team*

Jim Munro, Lead Assessor

1.4 *Place and Date of Assessment*

KGS
332-1 Daeya Dong, Shihung-Shi

Kyunggi-Do
KOREA 429-712

20-21 June 2006

1.5 *Assessment References*

- i) IECEx 02 Second Edition 2003-06
- ii) IECEx Operational Document OD/003
- iii) IECEx Operational Document OD/009
- iv) ISO/IEC Guide 65 1996
- v) ExCB application documents dated 6 March 2006

1.6 Scope of Application

Existing:

Product Category	Standard
General Requirements	IEC 60079-0
Flameproof Enclosures "d"	IEC 60079-1
Pressurised Enclosures "p"	IEC 60079-2
Increased Safety "e"	IEC 60079-7
Intrinsic Safety "i"	IEC 60079-11

Proposed extension of scope:

Type "n" Protection	IEC 60079-15
Type "m" Protection (encapsulation)	IEC 60079-18

1.7 Candidate ExCB Persons Interviewed

Name	Position
Dal Young Park	President of KGS
Dr Ji-Yoon Kim	Executive Director, Institute of Gas Safety R&D
Jin-Jun Kim	General Manager, Gas Appliances Division
Hae-Duk Jung	Manager Hazardous Locations Equipment, Gas Appliances Division and Quality Manager
Yeun Hee Choi	Certification Personnel

1.8 Legal Entity of the Candidate ExCB

KGS is a public body established under Article 28 of the High Pressure Gas Safety Control Law. There is a certificate of registration 140-82-00740 with the Taxation Department for KGS.

1.9 Associated Testing Laboratories

The ExTL is integral with the ExCB.

1.10 Associated Certification Functions

Not considered for extension of scope.

1.11 National Marks and Certificates

Not considered for extension of scope.

1.12 Financial Support
KGS is self-funding.

1.13 History

Initially established in 1974 with the name KGS being used since 1979. In 1995 the Institute of Gas Safety Technology was established as an annex research centre. In 1998 it became an affiliate of the Ministry of Commerce, Industry and Energy, and was designated as a certification body for electrical explosion-proof performance.

1.14 Standards Accepted

Product Category	Standard
General Requirements	IEC 60079-0
Flameproof Enclosures "d"	IEC 600791
Pressurised Enclosures "p"	IEC 60079-2
Increased Safety "e"	IEC 60079-7
Intrinsic Safety "i"	IEC 60079-11
Type "n" Protection	IEC 60079-15
Type "m" Protection (encapsulation)	IEC 60079-18

1.15 National Differences to IEC Standards

National differences to IEC standards are listed in the latest version of the IECEX Scheme Bulletin.

2. ORGANISATION

2.1 Names, Titles and Experience of the Senior Executives

Name	Title
Jin Jun Kim	General Manager

2.2 Name, Title and Experience of the Quality Management Representative

Name	Title	Experience
Hae-Duk Jung	Manager, Hazardous Locations Equipment, and Quality Manager	12 years in Ex

2.3 Name and Title of Nominated Principal Contact

Name	Title
Hae Duk Jung	As above

2.4 Name and Title of Signatories for Certification

Name	Title
Hae Duk Jung	As above

2.5 Other Employees in ExCB activity

Name	Title
Yeun Hee Choi	Certification Personnel

2.6 Organisational Structure

See Annex 1

2.7 Administration

2.7.1 Administrative Structure

See Annex 1

2.7.2 Terms of Reference of the Governing Board

Defined in quality manual. This is a certification committee comprising members from KGS both from within and outside the Hazardous Locations Equipment Team. KGS also has a board but it is not involved with certification functions.

2.7.3 Indemnity Insurance

KGS indemnity is covered by the government as it is a government agency.

3. RESOURCES

KGS has the necessary resources for this work.

4. COMMITTEES

None additional to certification committee.

5. CERTIFICATION OPERATIONS

5.1 National Approval/Certification Methods

Not considered for extension of scope.

5.2 Certification Policy

This is defined in the quality manual.

5.3 Staff Work Instructions

There are procedures in addition to those shown in the quality manual.

5.4 Application for Certification

KGS has an application form for clients to use when applying for IECEX certification.

6. STATISTICS

No certificates have been issued for the additional techniques.

7. DOCUMENTATION

- 7.1 **Document and Change Control**
Not considered for extension of scope.
8. **RECORDS**
Not considered for extension of scope.
9. **CONFIDENTIALLY**
Not considered for extension of scope.
10. **PUBLICATIONS**
Not considered for extension of scope.
11. **APPEALS**
KGS have a complaints process but no appeals process (see below).
12. **NATIONAL ACCREDITATION**
The Government authorises KGS to issue National Ex certificates. They also now have formal accreditation as a certifying body to ISO/IEC Guide 65 from the Korea Accreditation System (KAS) – See Annex 2. This is valid until 23 December 2008. The scope covers the existing IECEx ExCB scope but does not cover the additional standards. Provided the scope is extended to cover all relevant standards, ongoing surveillance of KGS should not be necessary.
13. **RECOGNITION AND AGREEMENTS**
Not considered for extension of scope.
14. **QUALITY MANUAL**
KGS has a comprehensive quality manual.
15. **INTERNAL AUDIT AND PERIODIC REVIEW**
Internal audit and periodic review occur on an annual basis. Examples of these were reviewed.
16. **COMPLAINTS**
KGS has a complaints procedure but has not had recent complaints.
17. **WITHDRAWAL AND CANCELLATION OF CERTIFICATES**
Not considered for extension of scope.
18. **SPECIAL FACTS TO BE NOTED**
Copies of additional supporting information for this assessment have been provided to applicant and the IECEx Secretariat. These include:
- Details of issues raised and how these have been resolved.
 - Checklist for parts of ISO/IEC Guide 65 addressed during the surveillance visit.
 - The assessment plan and assessor's notes.

19. COMMENTS

The following issue was found during the assessment:
The appeals procedure was found to be inadequate. Such a procedure should include provision to appeal to the IECEX Scheme.

The above issue was subsequently resolved to the satisfaction of the Assessor.

20. RECOMMENDATION

Based on the assessment performed on 19 and 20 June 2006 KGS is recommended for continuing acceptance in the IECEX scheme as a Certifying Body (ExCB) with the scope and extension of scope shown above.

As no test reports have been issued for the two techniques, Ex n and Ex m, to date and hence experience is limited, it is recommended that the first ExTR issued for each type of protection be subject to review within the IECEX Scheme.

Jim Munro
Lead Assessor

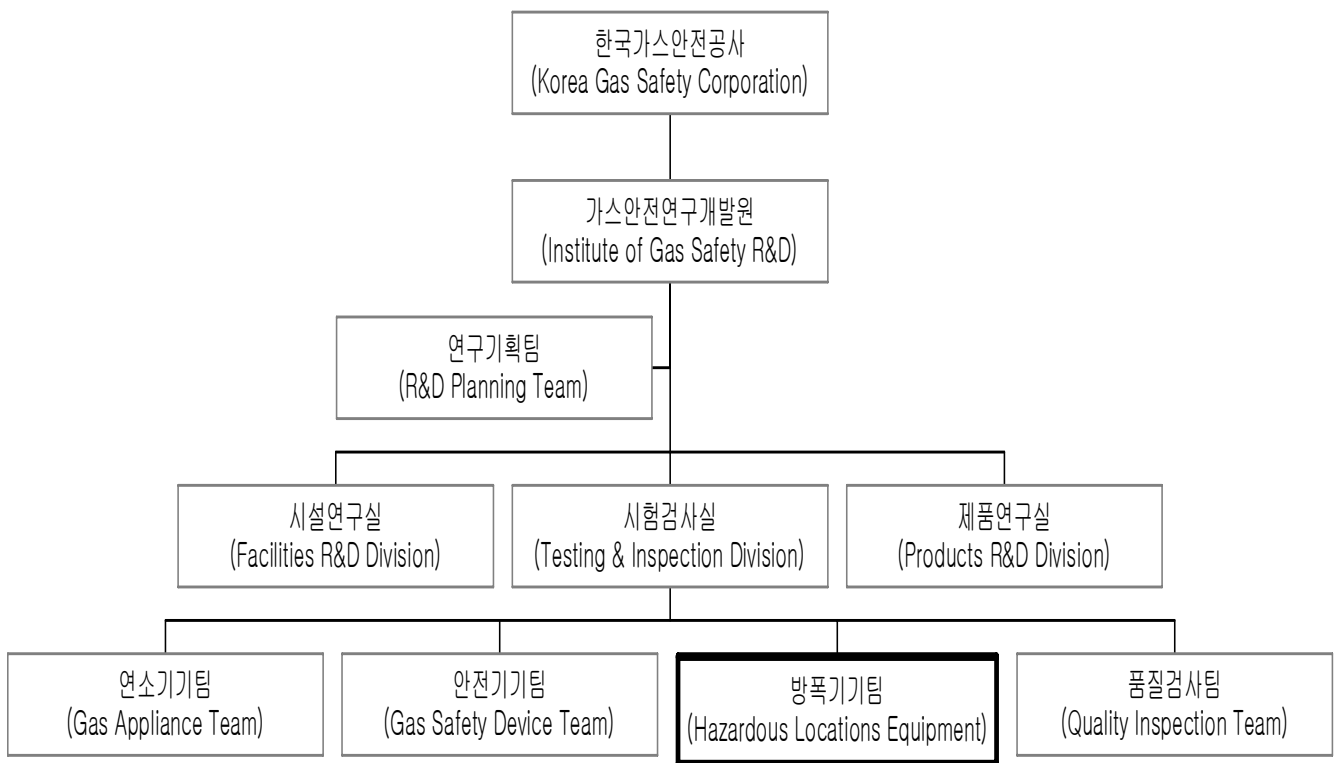
12 July 2006

List of Annexes:

Annex 1: KGS Organisation Chart
Annex 2: KAS Accreditation

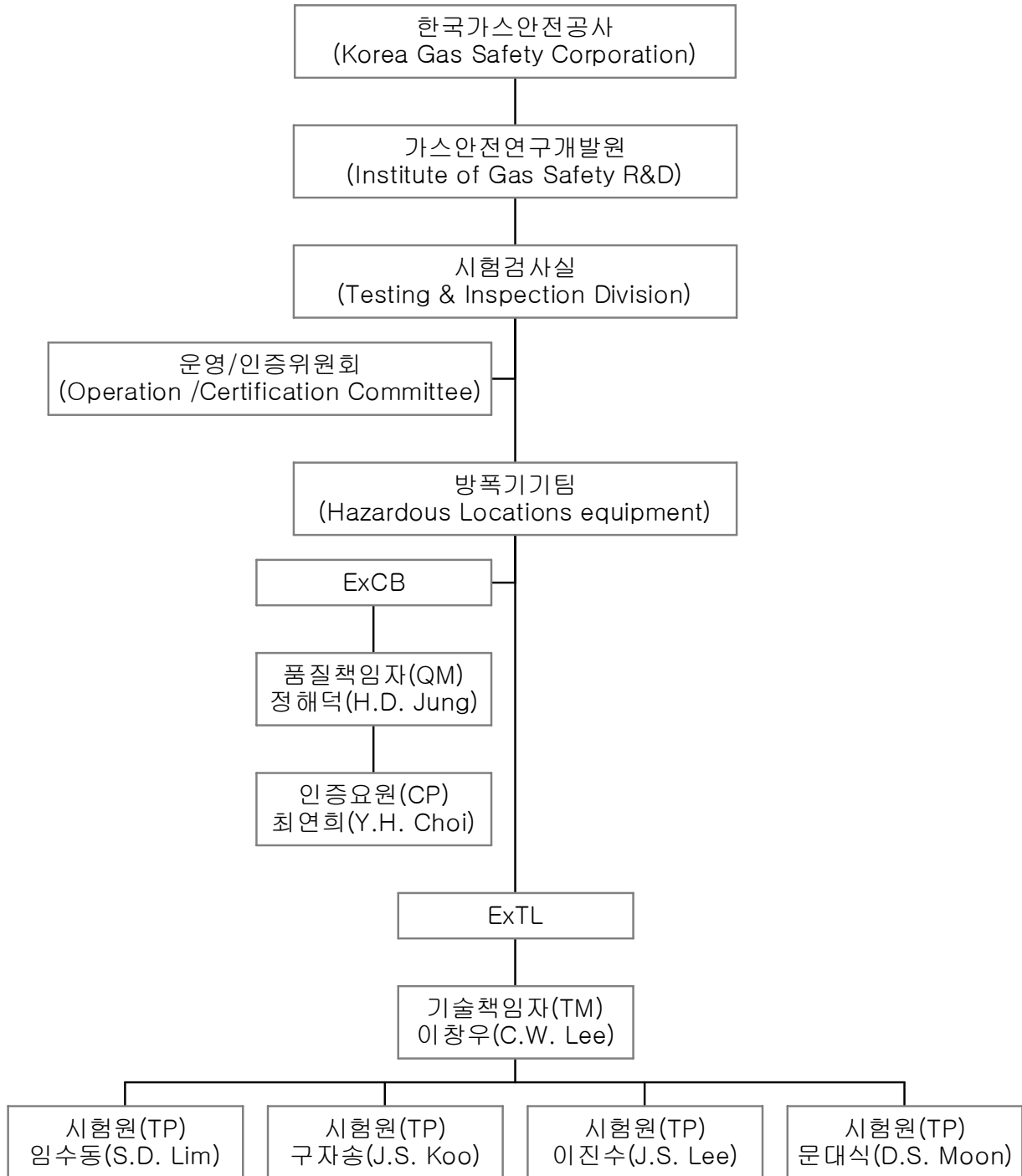
	Organization and Management	표준번호	Ex-M-02
		페이지	11 / 12

별표 1. Organization chart 1



 한국가스안전공사	Organization and Management	표준번호 Ex-M-02
		페이지 12 / 12

별표 2. Organization Chart 2



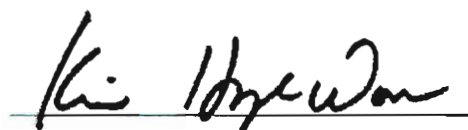
NO. KAS-P-004

CERTIFICATE OF ACCREDITATION

1. Name of certification body : Korea Gas Safety Corporation
2. Name of representative : Park, Dal Young
3. Registration number of corporation : 114671-0001406
4. Address of corporation : 332-1, Daeya-dong, Shihung-shi, Gyeonggi-do, Korea
5. Address of certification office : 332-1, Daeya-dong, Shihung-shi, Gyeonggi-do, Korea
6. Product, standard and scope of accreditation :
 - Gas burning appliances, Gas equipments and explosion-proof electrical equipments
 - ISO, IEC, ANSI, KGS, EN standards(attached)
 - System Type: I a, I b, II, III, IV, V
7. Period of validity : December 24, 2004 ~ December 23, 2008

This is to that the above body has been accredited for specific product certification systems in accordance with the National Standards Act and the requirements of ISO/IEC Guide 65:1996, inclusive of the KAS Guidance on the Accreditation and Surveillance of Product Certification Bodies.

October 4, 2005



Administrator,
Korea Accreditation System(KAS)