



# 2008 IECEX UTE Industry Symposium

**October 2008**  
**Paris**

Mr Chris AGIUS  
IECEX Secretary





## What is IECEx?



The single International IEC Scheme covering Certification to Standards that relate to Equipment for use in Explosive Atmospheres, to provide an Internationally accepted means of *demonstrating claimed compliance with International Standards*

IECEX is a “Conformity Assessment Tool” providing confidence that Products and Services covered by an IECEx Certificate meet specified requirements.

## To eliminate or significantly reduce:

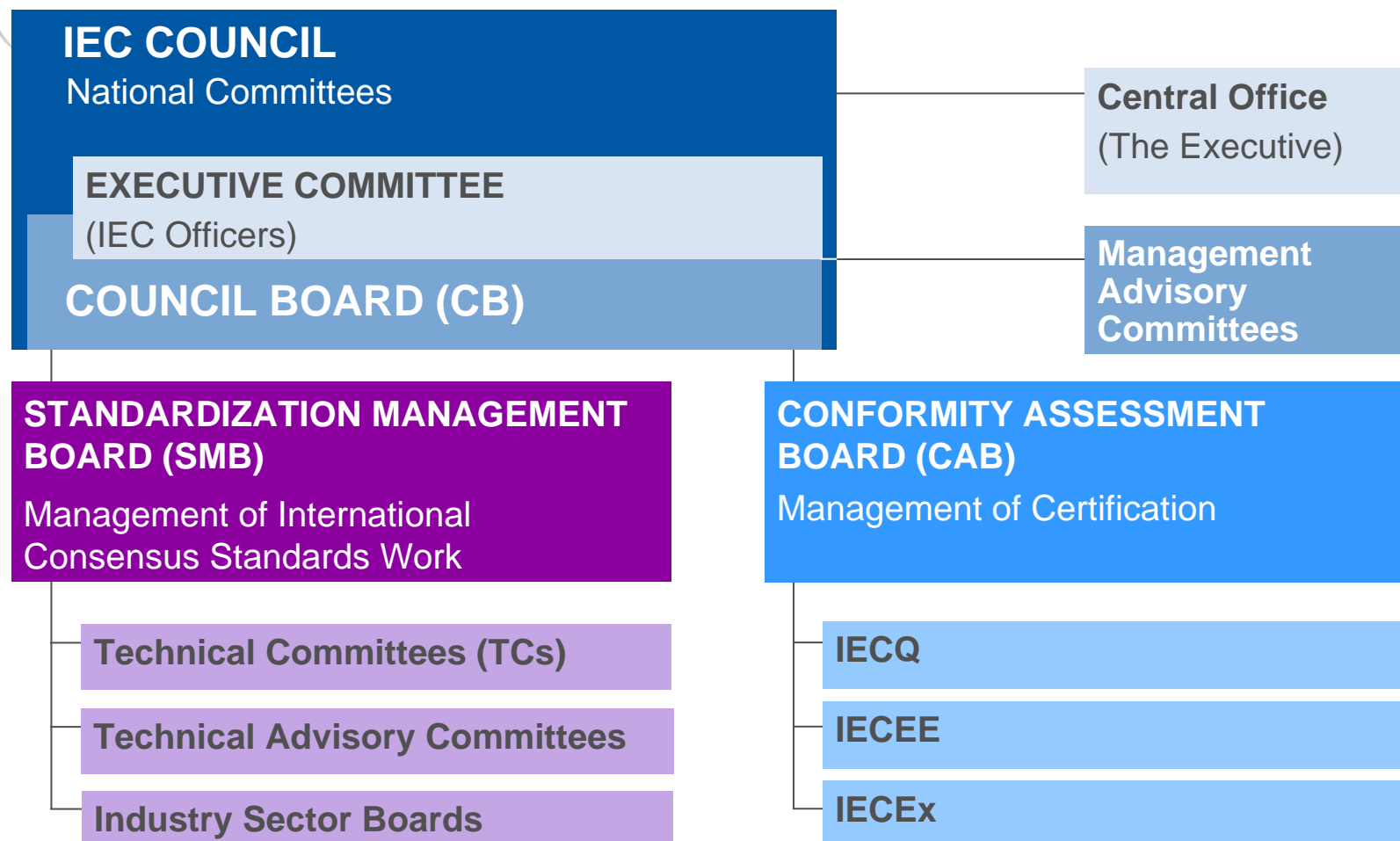
- Multiple/Re-Testing/Assessments
- Delays in accessing markets
- Obstacles that prevent access to new products and technology by smaller markets.
- Un-Safe Practices + Lost Production (Down time)

**Aim “The facilitation of International Trade in Ex Products, Systems and Services”, while maintaining acceptable levels of Safety**

## IECEX Vision:

**“To be the Global Centre of Excellence in the Ex field”**

# IEC organization chart



- ▶ A Global demand from industry for an International Standardised approach to testing and Certification for the Ex field, now in operation for 10 years.
- ▶ Industry demand for a system that
  - ▶ Operates on a worldwide basis
  - ▶ Provides for equity among all participants and Members
  - ▶ Ensures credibility by operating a single Ex Test lab and Ex Certification Body assessment system based on peer assessment principles
  - ▶ Ensures transparency of rules, procedures and systems
- ▶ A single set of Rules and Operational procedures set by the industry itself (including regulators) to ensure industry and regulatory confidence in the IECEx system
- ▶ Industry request for **CONFIDENCE** in a Global System





**Equity**

**Transparency**



**Confidence**

**FOUNDATION**



		<b>IECEx Certificate of Conformity</b>	
<b>INTERNATIONAL ELECTROTECHNICAL COMMISSION</b> <b>IEC Certification Scheme for Explosive Atmospheres</b> <small>(for rules and a details of the IECEx Scheme visit <a href="http://www.iecex.org">www.iecex.org</a>)</small>			
Certificate No.:	IECEx: PTE 06 0000X	Issue No.:	0
ISSUED:	09/09/07		
Expiration date:	09/09/10/07	Page:	1 of 4
APPLICANT:	KUGA, Untermythen 10000, Untermythen 115 77761, Bad Rastatt Germany		
Product Approval:	ULTRASONIC SENSOR KUGA/SONAR 9000 Series (U9001)		
Technical Approval:	ULTRASONIC SENSOR KUGA/SONAR 9000 Series (U9001)		
TYPE OF APPROVAL:	General Requirements, Intrinsic Safety		
REFERENCE:	Ex. Ia, Ex. Ib		
APPROVED FOR ISSUE ON BEHALF OF THE IECEx CERTIFICATION BODY:		GUY, UNDERMYTHEN*	
Position:		Generalist Head Technical Safety and Safety of U9001*	
Signature: (for issued version)		_____ _____	
Date:		_____	
* This certificate and approval may only be reproduced in full. This certificate is not a marketing tool, it is the property of the issuing body. The status and a summary of this certificate may be checked by visiting the <a href="http://www.iecex.org">Internet IECEx Archive</a> .			
Certificate issued by:			
<div style="text-align: center;"> <b>Physikalisch-Technische</b>  <b>Bundesanstalt (PTB)</b>  <small>(certified by IEC)</small>  <small>33115 Braunschweig</small>  <small>Germany</small> </div>			
			

			
<h1>Certified Service Facility</h1>			
<h2>INTERNATIONAL ELECTROTECHNICAL COMMISSION</h2> <h3>IEC Certification Scheme for Explosive Atmospheres</h3> <p>For rules and details of the IECEx Scheme visit <a href="http://www.iecex.com">www.iecex.com</a></p>			
<b>Certificate No.:</b>	<b>IECEx SMC 50001</b>	<b>Issue No. 0</b>	<b>Certificate Form 9</b>
<b>Status:</b>	<b>Current</b>	<b>Date of Issue:</b>	<b>2003-1-24/06</b>
<b>Applicant:</b>	<b>Wahyuta Sdn. Bhd.</b> Lot 1745, Block 3, MCO-2 Jalan Pritama 3 PUSAT INDUSTRIAL EKO 18000 Mlu Selangor Malaysia		
<b>Type of Service:</b>	<b>Repair and Overhaul according to IEC 60076-1:8</b>		
<b>Type of Protection:</b>	<b>Flameproof Enclosure "D" Increased Safety "n" Type of Protection "n"</b>		
<b>Scope of Service:</b>	<b>Repair and Overhaul of Ex d, Ex e and Ex n rotating machines and Ex d enclosures</b>		
<b>Locations covered by the Certificate:</b>	<b>Wahyuta Sdn. Bhd.</b> Lot 1745, Block 3, MCO-2 Jalan Pritama 3 PUSAT INDUSTRIAL EKO 18000 Mlu Selangor Malaysia		
<b>Facility Audit Report:</b>	<b>AUS50001-0001-000</b>		
This certificate is issued as witnessed by the Service Facility and is SOLELY FOR THE USE OF THE SERVICE FACILITY. This certificate is not transferrable and it remains the property of the Issuing Body. The certificate is granted subject to the COMMISSION for Conformity Assessment (IECEx) and its Commission(s) being so informed.			
<b>Approved for Issue on behalf of the IECEx Certification Body</b>	<b>Andri Chowdhury</b>		
<b>Position:</b>	<b>Principal Engineer - Certification</b>		
<b>Signature:</b>	<hr/>		
<b>Date:</b>	<hr/>		
1. This certificate and its validity may only be represented in full. 2. This certificate is not transferrable and it remains the property of the Issuing Body. 3. The Status and authority of this certificate may be verified by visiting the <b>Office IECEx Vietnam</b> .			
<b>Certificate Issued by:</b>			
<b>Singapore Testing and Research Station (Sintars)</b> 2 South Drive #02-01/0-0-01A ANS 0505			
		 <b>Sintars</b> Queensland's premier	

		<b>IECEX</b> <b>Certified Competent Person</b>	
<b>INTERNATIONAL ELECTROTECHNICAL COMMISSION</b> <b>IEC Certified on Scheme for Explosive Atmosphere</b> <small>applicable to members of the International Electrotechnical Commission</small>			
Certificate No.	CERTIFICATE NUMBER	Issue Date	Date of Issue: Month/Year
<h1>UNDER DISCUSSION</h1> <h1>WG 12 TO REPORT</h1>			
Approved for issue on behalf of the IECEx Certification Body		Person:	
Position:		Certification Manager	
Number of the end-product:			
Date:			
1. This certificate is being issued to certify that the following: <ul style="list-style-type: none"> <li>( ) This is a new product and is being issued for the first time.</li> <li>( ) This is a new product and is being issued for the first time.</li> <li>( ) This is a new product and is being issued for the first time.</li> </ul>			
Certificate issued by:		<b>UL International DEMKO A/S</b> UL International 3500 Central Expressway Fremont, CA 94538 USA	
			

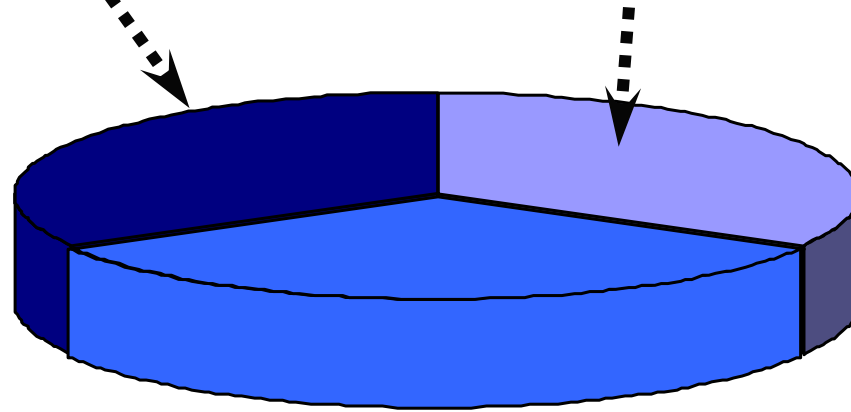
## New Ex Equipment

## Repair + Services

**under development**

Testing of  
Samples  
(Type Test)

Initial Assessment of  
Manufacturer's Quality  
System (factory audit)



On-going Surveillance  
(factory audits)

Back Edit Quit Save New Print

**IECEX Certificate of Conformity**

INTERNATIONAL ELECTROTECHNICAL COMMISSION  
IEC Certification Scheme for Explosive Atmospheres  
for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.: IECEx TSA 03.0000X Issue No: 0

Status: ☒ Draft ☒ Current ☐ Suspended ☐ Cancelled

Date of Issue: 2003-07-26 Page 1 of 4

Applicant Name: SAMPLE CERTIFICATE

Applicant Address: 132 Sample Street  
SAMPLE TOWN NSW 2000

Applicant Country: Australia

Electrical Apparatus: Portable Radios

Optional accessory: Kit





**Approved for introduction by IEC Council Board**

**Documentation:-**

- IECEX 04 Regulations**
- OD 022 Licensing Procedures**
- OD 023 Standard Terms and Conditions**
- New IECEX Marks Committee, meet 12 March 08**

# The "IECEx Way" for Ex Certification

**ExCB  
Country A**

**Com**

 <b>IECEX Certificate of Conformity</b>		
<b>INTERNATIONAL ELECTROTECHNICAL COMMISSION</b> <b>IEC Certification Scheme for Explosive Atmospheres</b> <small>for rules and details of the IECEx Scheme visit <a href="http://www.iecex.com">www.iecex.com</a></small>		
Certificate No.:	IECEX INE 08.0004X	Issue No.:0
Status:	Current	
Date of Issue:	2008-05-30	Page 1 of 4
Applicant:	BIFFI ITALIA s.r.l. Loc. Caselle S. Pietro I - 29017 Florenzuola d'Arda Italy	
Electrical Apparatus:	SEPARATE CONTROL UNIT type 484UC8....	
Optional accessory:		
Type of Protection:	d or d Ia and Id	
Marking:	Ex d IIB T6 or Ex d Ia IIB T4 or T3 Ex ID A21 IP66/68 T100°C IECEx INE 08.0004X "WARNING 5": DO NOT OPEN WHEN ENERGIZED DO NOT OPEN IF AN EXPLOSIVE ATMOSPHERE MAY BE PRESENT.	
Approved for issue on behalf of the IECEx	Thierry Houeix	
Certification Body:	Ex Certification Officer	
Position:		
Signature:		
(for printed version)		
Date:		
1. This certificate and schedule may only be reproduced in full. 2. This certificate is not transferable and remains the property of the issuing body. 3. The Status and authenticity of this certificate may be verified by visiting the <a href="http://www.iecex.com">Official IECEx Website</a> .		
Certificate issued by: INERIS Institut National de l'Environnement Industriel et des Risques BP n°2 Parc Technologique ALATA F-80560 Verneuil-en-Halatte France		
		

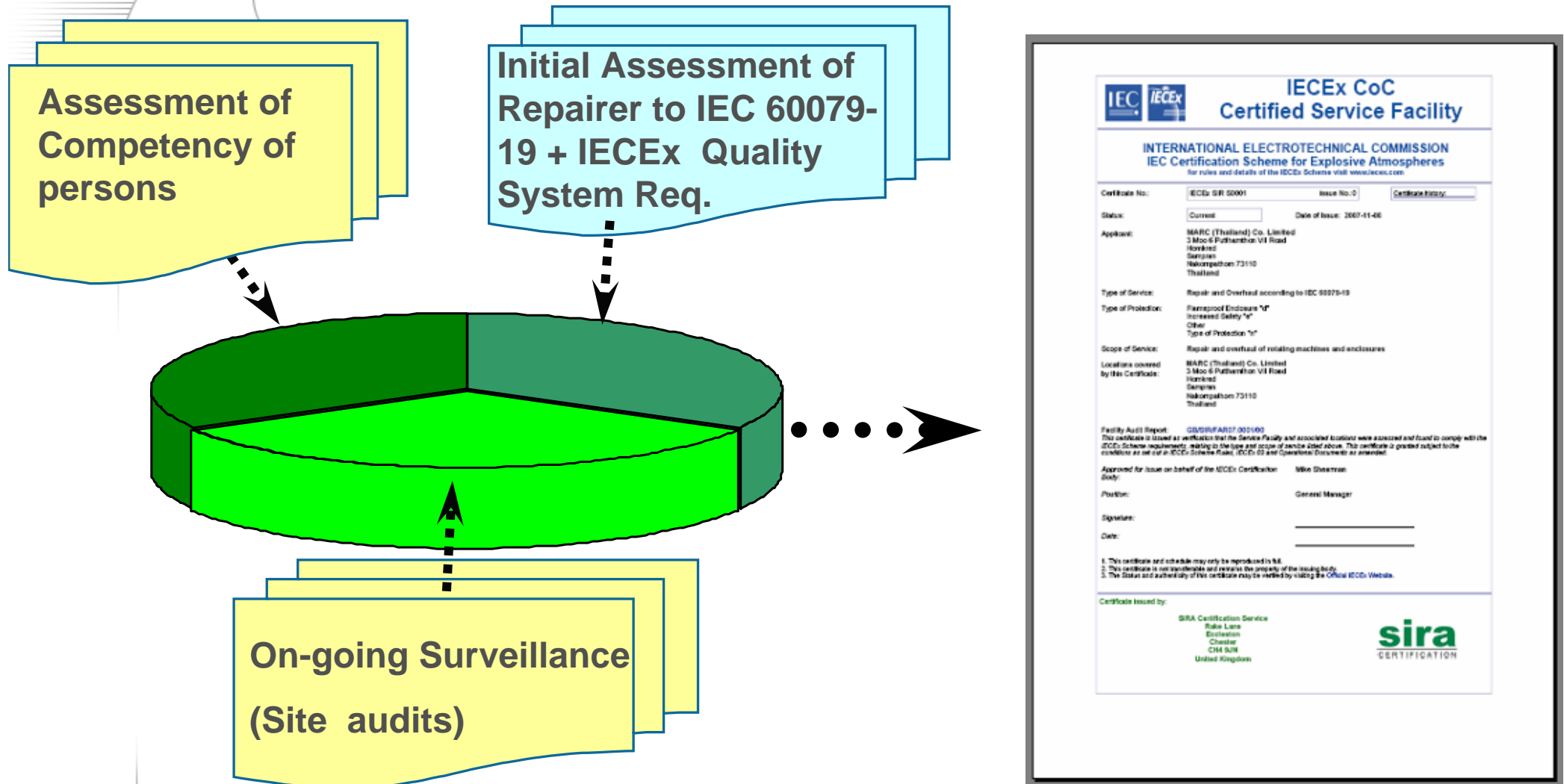
**B  
y C**

**ExCB  
Country D**

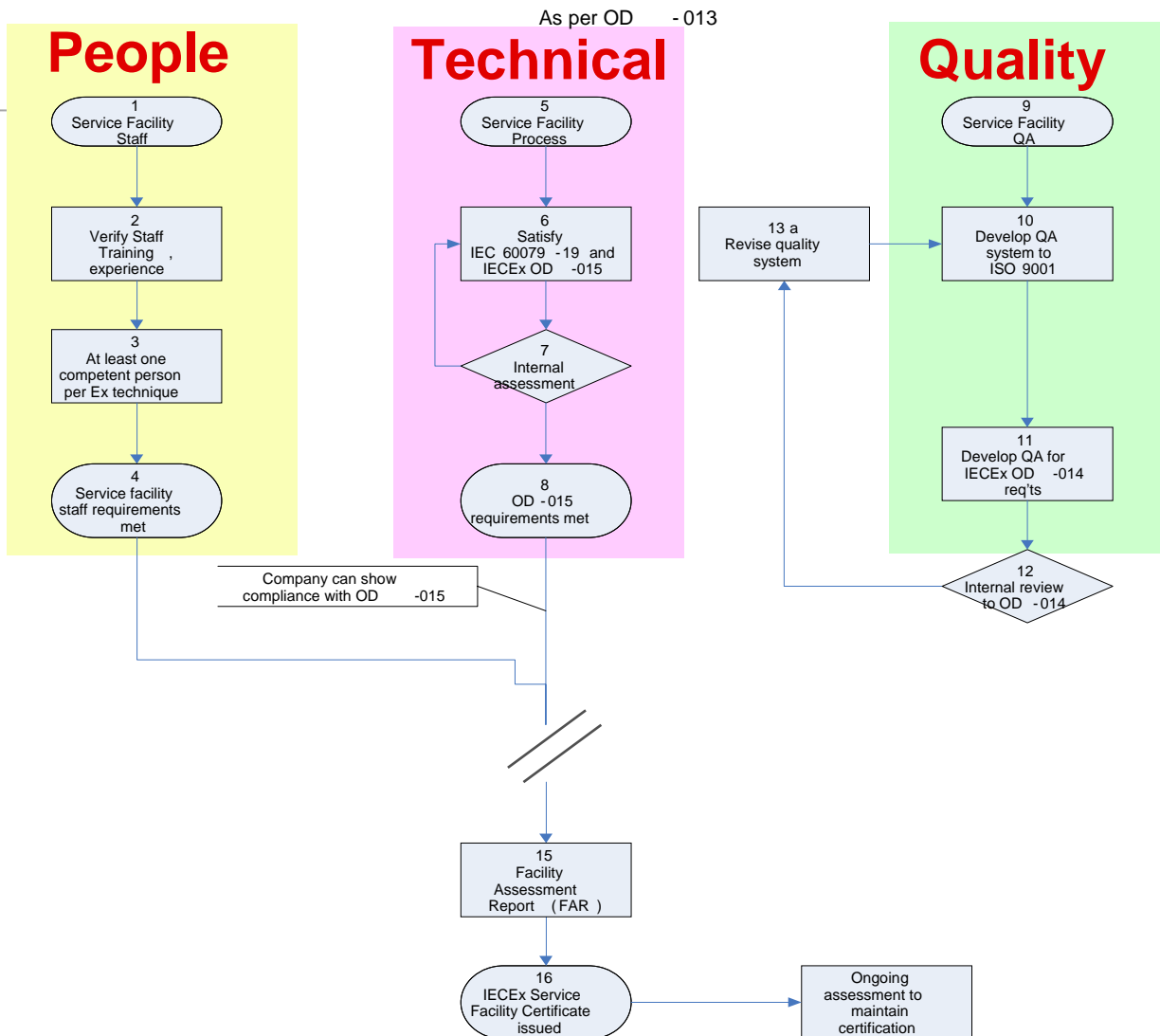
**adopted by ALL**



## IECEX Services Certification (Repair Workshops) - Program

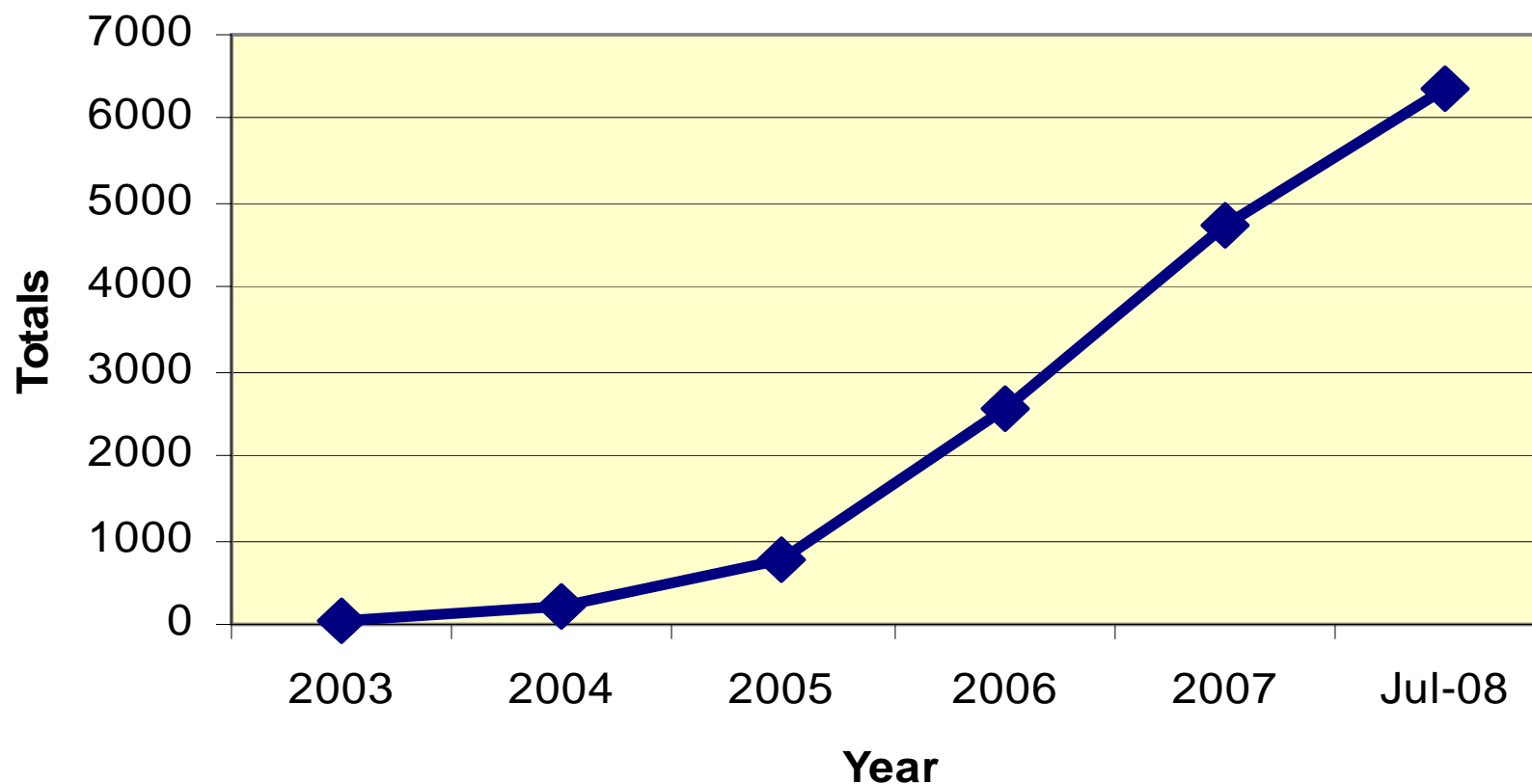


# Guide to IECEx Service Facility Certification, see [www.iecex.com](http://www.iecex.com)



- ▶ **Original Master Controlled version of the IECEx Certificate sits on the IECEx Website**
- ▶ **Separate areas to cover both**
  - ▶ **IECEX Certified Equipment Program**
  - ▶ **IECEX Certified Service Facilities Program**
- ▶ **Also provides for the On-Line Registration of issued**
  - ▶ **IECEX Test Reports**
  - ▶ **IECEX Audit Reports**
- ▶ **Full Reports not shown on the website due to commercial in confidence information but Registration System provides declaration by the issuing IECEx Certifier that Reports exist and were issued according to the IECEx process**

## IECEX Reports and Certificates to Jul 2008





**IECEX Certificate of Conformity**

**INTERNATIONAL ELECTROTECHNICAL COMMISSION**  
**IEC Certification Scheme for Explosive Atmospheres**  
for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.: **IECEX NEM 07.0003U** Issue No.: **1** Certificate history:  
Issue No. 1 (2007-5-29)  
Issue No. 0 (2007-3-12)

Status: **Current**

Date of Issue: **2007-06-29** Page 1 of 4

Applicant: **Barel AS**  
Kälvæien 2  
N-9917 Kirkenes  
Norway

Electrical Apparatus: **Encapsulated electronic ballast for fluorescent light**  
Optional accessory:

Type of Protection: **Encapsulated and increased safety**

Marking: **Ex mbe II T6**

Approved for Issue on behalf of the IECEx Certification Body: **Rolf Hoel**


Position: **Certification Manager, Ex-products**

Signature: \_\_\_\_\_  
(for printed version)

Date: \_\_\_\_\_

1. This certificate and schedule may only be reproduced in full.  
2. This certificate is not transferable and remains the property of the issuing body.  
3. The Status and authenticity of this certificate may be verified by visiting the Official IECEx Website.

Certificate issued by:  
**NEMKO**  
Gaustadalleen 30  
Oslo N-0314  
Norway



**IECEX Certificate of Conformity**

Certificate No.: **IECEX NEM 07.0003U**  
Date of Issue: **2007-06-29** Issue No.: **1**  
Page 2 of 4

Manufacturer: **Barel AS**  
Kälvæien 2  
N-9917 Kirkenes  
Norway

Manufacturing location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacture's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

**STANDARDS:**  
The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

**IEC 60079-0 : 2004** Electrical apparatus for explosive gas atmospheres - Part 0: General requirements  
Edition: 4.0  
**IEC 60079-18 : 2004** Electrical apparatus for explosive gas atmospheres - Part 18: Construction, test and marking of type of protection encapsulation 'm' electrical apparatus  
Edition: 2.0  
**IEC 60079-7 : 2006-07** Explosive atmospheres - Part 7: Equipment protection by increased safety 'e'  
Edition: 4

*This Certificate does not indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

**TEST & ASSESSMENT REPORTS:**  
A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in

**Test Report:**  
[NO/NEM/EXTR07.0003/00](#)  
[NO/NEM/EXTR07.0003/01](#)

**Quality Assessment Report:**  
[NO/NEM/QAR07.0001/00](#)

### STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the documents, was found to comply with the following standards:

<b>IEC 60079-0 : 2004</b> Edition: 4.0	Electrical apparatus for explosive gas atmospheres - Part 0: General requirements
<b>IEC 60079-18 : 2004</b> Edition: 2.0	Electrical apparatus for explosive gas atmospheres - Part 18: Construction, test : marking of type of protection encapsulation 'm' electrical apparatus
<b>IEC 60079-7 : 2006-07</b> Edition: 4	Explosive atmospheres - Part 7: Equipment protection by increased safety "e"

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than expressly included in the Standards listed above.*

### TEST & ASSESSMENT REPORTS:

*A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded.*

#### Test Report:

NO/NEM/ExTR07.0003/00  
NO/NEM/ExTR07.0003/01

#### Quality Assessment Report:

NO/NEM/QAR07.0001/00



Further Information may be obtained from

**[www.iecex.com](http://www.iecex.com)**