

2017 Annual Meetings of the IECEx System: Washington D.C. (USA), 25 - 29 September 2017

# **IECEx System Update**

IECEx ExTAG Training 25<sup>th</sup> September 2017

Mark Amos IECEx Secretariat



# **Secretariat Monitoring**

An audit of **827** x 'on-line' IECEx Equipment CoCs selected at random as representing a **~15% sample** of all those published in the second half of 2016 and 2017 YTD and audited showed

- IECEx Certified Equipment Certificates with <u>zero issues</u> = **763**
- IECEx Certified Equipment Certificates with <u>one issue</u> = **64** (= 7.7% of sample)
- IECEx Certified Equipment Certificates with <u>multiple issues</u> = 4 (= <1% of sample)
- IECEx Service Facility CoCs ... <u>0</u> of **31** audited had an issue
- IECEx Personnel CoCs ... <u>12</u> of **107** audited had an issue

Overall this a <u>worse</u> result than previous years so there is a need for improvement ! .....to assist improvement, TODAY = an opportunity for some feedback and information on:

- REMINDERS
- ➢ REVISIONS
- NEW TOOLS



# **Secretariat Monitoring**

Breakdown of **major issues** in IECEx Equipment Certificates audited:

- "Specific Conditions of Use" details NOT specified for "X" type Certificates
- Equipment description is NOT clear and sufficiently detailed
- Linked QAR is NOT current
- Manufacturer on CoC does NOT match QAR details and/or QAR(s) does NOT cover all manufacturing locations listed on CoC
- Standards listed on CoC do NOT match Standards (including Edition #) on ExTR (main issue observed was CoC citing later Edition than ExTR)
- "Schedule of Limitations" details NOT included in CoC for Ex Component certificates ("U" type)



## Other essential reading for ExCBs

### Document ExTAG/245/INF

IECEx On-Line Website Update: ExCBs-QARs out of date and ExCBs-CoCs with QARs out of date.

### Document ExTAG/164/INF

Scheduling of Surveillance Assessments + Re-Assessments for the IECEx 02 Certified Equipment Scheme.

### Operational Document OD 009

IECEx Certified Equipment Scheme, Procedures for the Issuing of IECEx Certificates of Conformity, IECEx Test Reports and IECEx Quality Assessment Reports

### Operational Document OD 011 (Series)

Guidance on Use of the IECEx Internet based "On-Line" Certificate of Conformity System

### Operational Document OD 033

**Unit Verification Certificates** 



**IECEx** Assistance

### REMINDER

PLEASE assist us to help you and your clients by advising us of any changes to organisation name, address, accreditation status, key personnel (especially the main contact person for IECEx matters) etc etc BEFORE or ASAP AFTER the change

Refer IECEx 02, Clauses 11.1.2, 11.1.3 and 11.1.9



### **REMINDER:** the need to manage Suspended Certificates ...

ACTION ITEM from the 2013 meeting of the IECEx Executive:

"... the Secretariat to conduct an annual review of suspended Certificates, remind ExCBs with suspended certificates that a review with the manufacturer is needed within 1 month, and to ask the ExCB to show cause why the Certificate(s) should not be cancelled. A failure to respond within 1 month will lead to an automatic cancellation."

*Current status* = some *ExCBs* have <u>publicly visible</u> *IECEx Certificates* that have been SUSPENDED for over **7** years.

In the view of the Secretariat these should be investigated by the ExCB and EITHER up-issued after resolution of the reasons for suspension OR cancelled.

The Secretariat can provide a report of these Certificates and assist with cancellations on request.



**REMINDER:** following a request from ExCBs, the Secretariat arranged for two major features to be added to the IECEx On-line website to provide separate listings for the following:

# A ExCB's Out of Date QARs A ExCB's CoCs with Out of Date QARs

### Noting that

- Each ExCBs are only able to view their own lists.
- Guidance is provided in Document ExTAG/245/INF
- The "Out of Date" status of a QAR (and the CoC it supports) is publicly visible



# **Out of Date QARs**

It is recognised that some QARs will never be updated. The reasons for this can include:

- 1. The linked CoC has been cancelled.
- 2. Another ExCB has taken over the surveillance of the manufacturer.
- 3. The ExCB has raised another QAR to supersede the original QAR.

In such cases ExCBs are requested to advise the IECEx Secretariat and if it can be shown that the QAR will never be updated <u>and</u> that all Current CoCs linked to the now out of date QAR have been updated and linked to a valid QAR, the Secretariat can remove the QAR from the ExCBs "QAR, out of date" list.



Ex Component Certificate creation automation
 presented to 2017 IEC TC 31 Meeting in Sydney
 discussed and accepted by 2017 ExMC WG1 meeting
 now a project for IEC IT ....

Cartificates "Automating" Ex Component Certificates

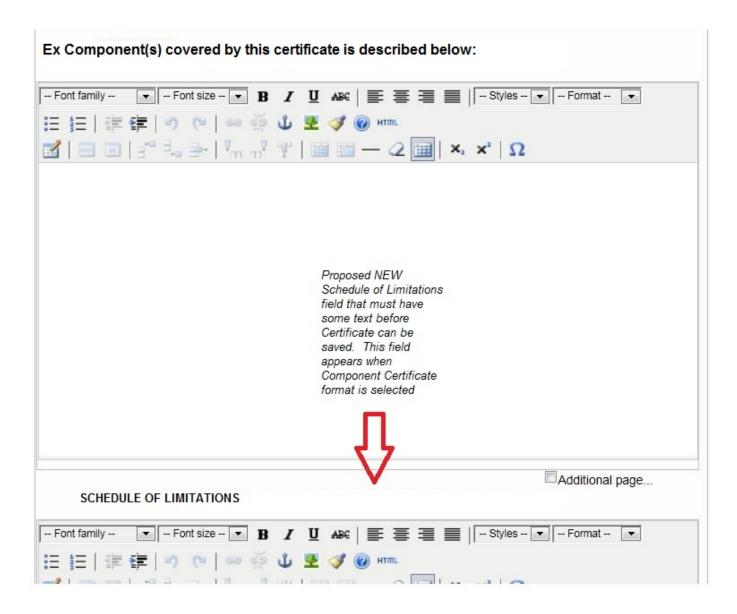
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Certificate No.:	IECEx BAS 16.0110U	issue No.:0	Certificate history:
Status:	Current		
Date of Issue:	2016-10-27	Page 1 of 4	
Applicant:	Hyundai Heavy Industri Electro Electric Systems Divis 1 Jeonha-Dong, Dong-Gu, Ulsan City, 682-792 Korea, Republic of	sion,	mponent Certificate form

# **IEC** "Automating" Ex Component Certificates

Certificate No.:	IECEx BAS 16.0110U	issue No.:0	Certificate history:
Status:	Current		
Date of Issue:	2016-10-27	Page 1 of 4	
Applicant:	Hyundai Heavy Industri Electro Electric Systems Divis 1 Jeonha-Dong, Dong-Gu, Ulsan City, 682-792 Korea, Republic of		or
Ex Component:	Silicone Sealing Bushing D	Device	
	tended to be used alone and requires addi ipment or systems for use in explosive atr	tional consideration when	

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	ertification Sc	ECTROTECHNICA heme for Explosive of the IECEx Scheme visit www	e Atmospheres
Certificate No.: Status:	IECEx Sal 17.0001 Oraft Current	issue No.:0	Certificate history:
Date of Issue: Unit Verification: Component Certificate Applicant Name:	2017-01-25 <sup>©</sup> Yes <sup>●</sup> No e: <sup>●</sup> Yes <sup>●</sup> No	for O	Page 1 of 3 posed NEW Edit Mode view Component Certificate ult option = No for both Unit Verification and ponent types in draft Certificate template
Applicant Address:			*

# **ECEX** "Automating" Ex Component Certificates

	151	Ex Certi				
INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres for rules and details of the IECEx Scheme visit www.iecex.com						
	Ex COMPONEN	T CERTIFICAT	TE			
Certificate No.:	IECEx PRE 16.0056X	issue No.:0	Certificate history:			
Status:	Current					
Date of Issue:	2016-12-20	Page 1 of 3				
Applicant:	Force Technology Norway A	5				
	Nye Vakås vei 32 1395 Hvalstad, <b>Norway</b>	Proposed	NEW published			
	Norway		omponent es' HEADER			
Ex Component:	-4					
Type of Protection:	Ex d, e, ia					



### **IECEx Public Search Tool**



INTERNATIONAL ELECTROTECHNICAL COMMISSION SYSTEM FOR CERTIFICATION TO STANDARDS RELATING TO EQUIPMENT FOR USE IN EXPLOSIVE ATMOSPHERES

#### CERTIFIED EQUIPMENT CONFORMITY MARK LICENSES CERTIFIED SERVICE FACILITIES CERTIFIED PERSONS TOOLS

#### Information

IEC System for Certification to Standards relating to Equipment for use in Explosive Atmospheres (IECEx System) IECEx Certificates of Conformity Scheme enables: IECEx Certification Bodies to issue new IECEx Certificates On-line.

Full Public access to consult, view and print issued IECEx Certificates.

#### Click here for a link to the INSTRUCTIONS FOR USE.

#### Click here for a link to the original IECEx Certificate System menu.

This facility will be maintained for a short time to allow users to transition to using this new Search Tool page. For any questions, please contact Mr. Chris Agius, IECEx Secretary.



& Log in

For ExCBs only



Enter your criteria					
IECEx documents:	Certificates -	Issued year: - All -	• Status: - All -	•	
ExCBs:	- All -	Certificate/ExTR/QAR number:		Standard:	
Applicant/ Manufacturer:	- All -	Name:			
For Ex Certificates only:	Equipment:	Type of protect	ion:		
		(X Reset ) (	Search )		



## **IECEx Public Search Tool**

### WHY

- Response to requests for 'advanced search capability' via multiple criteria (increasing use as "Buyers Guide")
- Accommodate changes to and additions of web browsers
- Improved security of on-line Certificates and supporting documents
- Properly pagenated copies of Certificates with merged Annex as a single secured document (no need for Adobe Acrobat installation)

### **IMPACT on ExCB and ExTL Facilities and Tools**

 NIL .... you still have access via login (refer emails and OD 011-2 update) to original system



### **IECEx Public Search Tool**

Enter your criteria										
IECEx documents:	Cert	tificates	▼ Issued	year: - All -	- Statu	us: - All -	•			
ExCBs:	- All	-	Certific	ate/ExTR/QAR numbe	r: BAS 16.0010		Standard:			
Applicant/ Manufactur	er: - All	-	Name:							
For Ex Certificates on	ly: Equip	pment:		Type of pro	tection:					
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Total Certificates four	nd : 1									
								Previous	1	Next
Certificate no.	Date	♦ ExCB	Cocation	Equipment		Applicant	Standa	ards	\$	Files
IECEx BAS 16.0010X issue 0	2016-0	06-29 BAS	United Kingdom	DPI620G-IS Intrinsica and Communicator S	ally Safe Calibrato eries	r Druck Limite	ed IEC 60 IEC 60	0079-0 (Ed.6.0), 0079-11 (Ed.6.0)		A



### MS Word & Excel documents = XML file format "Web documents" = HTML file format

Therefore copying and pasting content (especially some custom graphics, icons and tables with special formatting) <u>from</u> MS Word or Excel (or some other software) <u>into</u> IECEx Certificates can cause problems when PDF versions are created...

### **Solutions:**

- 1. IEC IT has expanded the character set to UTF 8
- 2. Please use Edit Tools in Certificate when in Edit mode
- 3. Use Notepad to 'clean content' before pasting
- 4. Please check and validate (or fix then validate) PDFs



# **IECEx CoC Edit Tools**

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2			1											



# **IECEx PDF Validation Tool**

Administrator |



# CEx Certificate of Conformity

### ROTECHNICAL COMMISSION e for Explosive Atmospheres

IECEx Scheme visit www.iecex.com

issue No.:0

Certificate history:



# **Decision Sheet Index**

### via link in ExTAG Decisions in Member's Area of www.iecex.com

IEC Standards and	IECEx Decision She	et Cross Ref	erences	
Standard and Version / Document / Topic	Clauses of Standard 👻	Decision She -	DS Issue Date	Key Words
IEC 60079-0 All editions	Cl. 16 and Annex A	2017/001	2017 06	Cable transit device, Entry Device, cable gland
IEC 60079-0 All editions IEC 60079-11 All editions	5, 7.6	2016/002	2016 11	FMEA (Failure Mode Effect Analysis)
IEC 60079-7:2015	4.3, 4.4.1	<u>2016/001</u>	2016 07	Creepage, clearance, type of protection 'g', mains, isolated circuits, printed wiring board mounted components
TS 60079-40:2015	All	<u>2015/019</u>	2015 12	Process fluids, sealing, process sealing
IEC 60079-1:2007	5.2 and 5.2.3	<u>2015/018</u>	2015 10	Flameproof joints, spigot joints, conical joints, flanged joint
IEC 60079-1:2014	5.2 and 5.2.3	2015/018	2015 10	Flameproof joints, spigot joint, conical joint, flanged joint
ISO / IEC 80079-34:2011	As relevant	2015/018	2015 10	Flameproof joints, spigot joints, conical joints, flanged joints
IEC 60079-0:2011	30	2015/017	2015 10	Manufacturer, instructions
IEC 60079-11:2011	5.6.2	<u>2015/016</u>	2015 09	Thermocatalytic sensors, intrinsically safe circuit
IEC 60079-1:2007	3.3, 6.1 and 16.2	2015/015	2015 09	Welding, brazing, joint, enclosure
IEC 60079-1:2014	3.3, 6.1, 16.2 and 16.3	2015/015	2015 09	Welding, brazing, joint, enclosure
IEC 60079-7:2015	5.2.3	2015/014	2015 09	Terminal box, motor



# **Decision Sheet Index**

#### IEC Standards and IECEx Decision Sheet Cross References

Standard and Version / Document / Topic	✓ Clauses of Standard	Decision She	<ul> <li>DS Issue Date</li> </ul>	Key Words
IEC 60079-0 All editions	CI. 16 and Annex A	2017/001	2017 06	Cable transit device, Entry Device, cable gland
IEC 60079-0 All editions IEC 60079-11 All editions	5, 7.6	2016/002	2016 11	FMEA
IEC 60079-7:2015	4.3, 4.4.1	2016) Fi	nd Replace n <u>d</u> Replace d what: Cable	۲ ۲
TS 60079-40:2015	All	2015	Find by K	ev Words
IEC 60079-1:2007	5.2 and 5.2.3	2015		Options >>
IEC 60079-1:2014	5.2 and 5.2.3	2015		Find All Find Next Close
ISO / IEC 80079-34:2011	As relevant	2015/018	2015 10	Flameproof joints, spigot joints, conical joints, flanged joints
IEC 60079-0:2011	30	2015/017	2015 10	Manufacturer, instructions



# **Decision Sheet Index**

- Filter by Standards and Clauses of ...
- Hyperlink to Decision Sheet

Standard and Version / Document / Topic	Clauses of Standard +	Cecision She -	DS Issue Dat
IEC 60079-0 All editions	Cl. 16 and Annex A	2017/001	2017 06
IEC 60079-0 All editions IEC 60079-11 All editions	5, 7.6	2016/002	2016 11
IEC 60079-7:2015	4.3, 4.4.1	2016/001	2016 07

### **IEC Standards and IECEx Decision Sheet Cross References**



THANK YOU

The IECEx Secretariat wishes to thank all ExCBs for their prompt assistance and cooperation to date and their understanding of the value in maintaining an up to date On-Line Certificate System