

**IECEX
Certification Scheme
BUXTON - England
Industry Seminar**

5th October, 2005



**IECEX in Australia & Asia
Pacific Region
Industry Perspective**

5 October 2005

IECEX Buxton 2005 Meetings

Mr Ralph Wigg



WHAT INDUSTRY GETS NOW!



5 October 2005



IECEX in Australia & Asia - an Industry Perspective

3



THE REGION

► **Australia and Asia Pacific includes:**

- Australia
- China
- Korea
- New Zealand
- Singapore

Already participating in IECEx

5 October 2005



IECEX in Australia & Asia - an Industry Perspective

4



THE REGION

► **Australia and Asia Pacific includes:**

- Japan
- Malaysia

Intending to participate in IECEx

5 October 2005



IECEX in Australia & Asia - an Industry Perspective

5



THE REGION

► **Australia and Asia Pacific includes:**

- Other countries such as Indonesia, Thailand, Philippines etc

Will follow the lead of surrounding countries

5 October 2005



IECEX in Australia & Asia - an Industry Perspective

6

IEC TECEx

WHAT INDUSTRY GETS NOW!

- ▶ **The owner/occupier/end user**
 - ▶ Insufficient information
 - ▶ Continual follow up of Manufacturers
 - ▶ Inconsistency of presentation of material
 - ▶ Creates confusion
 - ▶ Takes more time
 - ▶ Costs more
 - ▶ Verification Dossier becomes a nightmare

5 October 2005 IEC Ex in Australia & Asia - an Industry Perspective 7

IEC TECEx

WHAT INDUSTRY GETS NOW!

- ▶ **Manufacturer**
 - ▶ Different requirements from every region
 - ▶ Uncertain of information required by Certifier
 - ▶ Long lead times for Certificates
 - ▶ No guidance on best approach for the market

5 October 2005 IEC Ex in Australia & Asia - an Industry Perspective 8

IEC TECEx

WHAT INDUSTRY GETS NOW!

- ▶ **Test Lab & Certifier**
 - ▶ Multiple systems to work in.
 - ▶ A lot of red tape
 - ▶ Huge documents to process
 - ▶ Unrealistic expectations of clients

5 October 2005 IEC Ex in Australia & Asia - an Industry Perspective 9

IEC TECEx

WHERE DOES A CERTIFICATE FIT?

- ▶ **Required by Regulations**
 - ▶ O.H. & S.
 - ▶ Mining
 - ▶ Electrical
 - ▶ Now others

5 October 2005 IEC Ex in Australia & Asia - an Industry Perspective 10

IEC TECEx

WHERE DOES A CERTIFICATE FIT?

- ▶ **Regulators needs support**
 - ▶ Lack expert resources
 - ▶ Problems with litigation
 - ▶ Transfer responsibility
 - ▶ Unequivocal evidence to rely on!

5 October 2005 IEC Ex in Australia & Asia - an Industry Perspective 11

IEC TECEx

WHERE DOES A CERTIFICATE FIT?

- ▶ **User responsibilities**
 - ▶ Use products that comply with Standards
 - ▶ Have full knowledge of how to use
 - ▶ Lack expert resources
 - ▶ Problems with litigation
 - ▶ Accept responsibility

5 October 2005 IEC Ex in Australia & Asia - an Industry Perspective 12

!!!!!!! PROBLEM!!!!!!!

**REGULATIONS VARY
FROM COUNTRY TO COUNTRY.**

**PRODUCTS ARE SUPPLIED
TO MULTIPLE COUNTRIES**

**RULES FOR USE ARE
DIFFERENT IN EACH COUNTRY**

TERMINOLOGY IS DIFFERENT

APPROVAL – CERTIFICATION

5 October 2005 IEC Ex in Australia & Asia - an Industry Perspective 13

!!!!!!! ANSWER!!!!!!!

**ESTABLISH A COMMON BASE
FOR ALL INFORMATION
REGARDING CONFORMITY OF
PRODUCT THROUGH A
CERTIFICATION PROGRAM**

5 October 2005 IEC Ex in Australia & Asia - an Industry Perspective 14

WHAT INDUSTRY NEEDS

- ▶ **To know that all work is carried out by Competent Persons**
- ▶ **That installations are safe!**
- ▶ **Product is Compliant**
- ▶ **Evidence is provided in a consistent format AND is complete.**

5 October 2005 IEC Ex in Australia & Asia - an Industry Perspective 15

WHAT INDUSTRY NEEDS

- ▶ **Manufacturers are looking for:**
 - ▶ What is needed to achieve certification
 - ▶ What is the best certificate to get
 - ▶ How to satisfy multiple markets
 - ▶ Short times to market
 - ▶ Minimum ongoing changes
 - ▶ No cost

5 October 2005 IEC Ex in Australia & Asia - an Industry Perspective 16

WHAT INDUSTRY NEEDS

- ▶ **Certifiers are looking for:**
 - ▶ Single set of rules
 - ▶ Consistency in standards
 - ▶ Co-operative clients
 - ▶ Good applications
 - ▶ A scheme that is working together with ONE aim!

5 October 2005 IEC Ex in Australia & Asia - an Industry Perspective 17

HOW CAN THIS BE ACHIEVED?

- ▶ **Competency**
 - ▶ In design
 - ▶ In selection of apparatus
 - ▶ For installation
 - ▶ In operation
 - ▶ For inspection
 - ▶ Maintaining and repairing

5 October 2005 IEC Ex in Australia & Asia - an Industry Perspective 18

IEC **TECEX**

HOW CAN THIS BE ACHIEVED?

- ▶ **Verification of:**
 - ▶ apparatus
 - ▶ installations
 - ▶ inspections
 - ▶ maintenance, repair & overhaul
 - ▶ persons

5 October 2005 **ex** IEC Ex in Australia & Asia - an Industry Perspective 19

IEC **TECEX**

HOW CAN IECEX HELP?

- ▶ **Certification of Apparatus**

Now operating

5 October 2005 **ex** IEC Ex in Australia & Asia - an Industry Perspective 20

IEC **TECEX**

HOW CAN IECEX HELP?

- ▶ **Certification of Apparatus offers:**
 - ▶ Single common Standards are used
 - ▶ Rules are clear for Certifiers
 - ▶ Manufacturers have clear guidelines
 - ▶ Full compliance is required
 - ▶ Quality Management System and Product Compliance is invoked
 - ▶ Information is readily available
 - ▶ Full information not yet provided?

5 October 2005 **ex** IEC Ex in Australia & Asia - an Industry Perspective 21

IEC **TECEX**

HOW CAN IECEX HELP?

- ▶ **Certification of Designs**

Not yet available

5 October 2005 **ex** IEC Ex in Australia & Asia - an Industry Perspective 22

IEC **TECEX**

HOW CAN IECEX HELP?

- ▶ **Certification of Installations**

Not yet available

5 October 2005 **ex** IEC Ex in Australia & Asia - an Industry Perspective 23

IEC **TECEX**

HOW CAN IECEX HELP?

- ▶ **Certification of Inspections**

Not yet available

5 October 2005 **ex** IEC Ex in Australia & Asia - an Industry Perspective 24

IEC TECEx

HOW CAN IECEX HELP?

- **Certification of Repair & Overhaul**

Coming soon

5 October 2006 IEC Ex in Australia & Asia - an Industry Perspective 25

IEC TECEx

HOW CAN IECEX HELP?

- **Certification of Competency**

For consideration?

5 October 2006 IEC Ex in Australia & Asia - an Industry Perspective 26

IEC TECEx

HOW CAN IECEX HELP?

- **No other Certification Scheme in the world has the possibility of crossing borders:**
 - Not in Europe
 - Not in North America
 - Not in Africa
 - Not in Asia
- **only the IECEX scheme can do this!!**

5 October 2006 IEC Ex in Australia & Asia - an Industry Perspective 27

IEC TECEx

WHAT INDUSTRY WANTS IN FUTURE!!

Quote from a Major Oil Company Senior Executive

"We are only interested in ensuring that our plant is safe and productive without either spending millions more to verify or having an incident."

Regardless of whether we manage the construction of purchase as a package we want to know that the people responsible knew what they were doing and the evidence easily and simply demonstrates compliance with all standards and regulations."

5 October 2006 IEC Ex in Australia & Asia - an Industry Perspective 28

IEC TECEx

THANK YOU FOR YOUR ATTENTION



5 October 2006 IEC Ex in Australia & Asia - an Industry Perspective 29