Sector Initiative for Equipment in Explosive Environments

The comprehensive approach of the UNECE Model L Regulation

Lienesch Frank
Chair of SIEEE

UNECE – Working Party 6
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• Introduction of the Sector Initiative
  • What is Explosion Protection?
  • What kind of Products?
  • Importance of the Quality Infrastructure

• Importance of the Market Surveillance
  • Examples of the CRO

• Cooperation with IECEx
Buncefield, UK, 11. Dezember 2005
Industry manufacturing Ex-Products
Quality Infrastructure: A Complex Network

Supplier/Producer
Quality Management System

Technical Regulations
legal stipulation

Standards
customer demands

User
Occupational health and safety

Certification

Testing

Metrology

Inspection/Market Surveillance

Conformity Assessment

Accreditation
Principles of the Ex-Business
Intention of the Common Regulatory Objectives (CRO)

Manufacturer

- Placing on the market
- Market Surveillance
  - IEC 60079-ff
  - IEC 80079-ff

Repair
- IEC 60079-19

Ex-Equipment (Installed basis)

- Inspection and Maintenance
  - EN/IEC 60079-17

Installation
- IEC 60079-10
- IEC 60079-14

Zone classification (“Risk Assessment”)

Operator

- Regulators Jurisdiction

Life cycle approach

UNECE

- Risk Assessment
Procedure for Ex-market surveillance

Example: Possibly faulty product
Informative Guideline for national officials for regulation

Background
Explosion protection is an essential part of the overall risk management to be conducted for industrial sectors such as coal mining, oil, gas and chemical industries, to ensure safety in industrial processes using or producing hazardous materials like – for example – combustible gas, dusts or vapours. The risks to life and health of persons and the risk of loss of property when using the equipment which operates in the presence of explosive atmospheres are high.

Equipment used in high-risk facilities is highly sophisticated. Checking that it conforms to international best practice and current regulations is a complex task, even for those regulatory authorities who have substantial resources and modern equipment at their disposal.

Most national regulatory frameworks require that conformity assessment be conducted by independent, third-party inspection bodies. This is a prerequisite for safety in a sector where hazards are substantial and may involve many casualties. The IECEx Certification System offers a global framework for equipment, repair facilities or personal competence in this field.

Communication Channel

Interaction with National Officials

Invitation to communicate and exchange of information with the IECEx System
The IECEx system sees themselves as a transparent organisation with the aim to have a high safety level an interaction with national officials for regulation is essential in cases of e.g. non-compliance matters. In case of non-compliance matters the IECEx-System appreciates to be contacted by national officials for regulation in the Ex-field. One of the unique and key features of the IECEx is the IECEx “On-Line” Certificate System with full public display of all IECEx Certificates, which provides a one-stop location that provides instant verification and checking of claims of holding IECEx Certification for either Ex Products, Ex related Service Organisations and Persons certified as Competent in the Ex field. For further information our contact is:

Officials-contact@iecxex.com

The IECEx system offers high confidentiality with respect to non-compliance or also general technical matters. The secretariat in conjunction with a steering committee of IECEx can handle your concerns.

The IECEx System appreciates your trust and support by starting the communication and discussion to get a highly recognized certification system.

Support in the complex thematic area

High Confidentiality
The Regulatory Framework

6 Common Regulatory Arrangements

Markets surveillance
UNECE Protection Steering Committee
Conformity Assessment Bodies
International Standards
Safe Use and Competence of Service
Product Requirements

A Common Regulatory Framework for Equipment Used in Environments with an Explosive Atmosphere
Thank you

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