



IECEx Scheme Compliance Mandatory Implementations in UAE

White Paper

info@ind-ex.ae

Abstract:

Implementation of globally endorsed IECEx scheme in the UAE countries for full compliance of safe plant design and operation, new plant licenses and license renewals.

Definition:

IECEx conference in Dubai 2012 endorsed that global IECEx scheme to be implemented for all GCC countries.

Keywords:

IEC Ex scheme, hazardous area installation and third party verification and audit, site verification dossier, regular maintenance inspections, IEC60079-14, IEC60079-17, IEC60079-19 series of standards.

FACTS

- **ESMA** (Emirates Authority For Standardization and Metrology) Technical Regulation (best known as **ECASex** (Emirates Conformity Assessment Scheme) is fully endorsed IECEx scheme as **mandatory** for the certification of electrical products intended for use in potentially explosive atmospheres as quoted below:
 - **4.1.1**
 - The owner of the Electrical products covered by an ECASEx Certificate are responsible for:
 - a) ensuring that the Electrical product is installed, operated and maintained in accordance with the manufacturer’s instructions, any conditions on certification and the relevant requirements of IEC 60079-17 and IEC 60079-17.
 - b) maintaining copies of certification documentation supporting ECASEx Certificate.
- Compliance with this ESMA Technical Regulation and Assessment Scheme are mandatory for any electrical, instrumentation equipment to ensure that properly selected equipment is designed, procured and installed (including operation, maintenance, repair, relocation, and modification) with correct zone classifications and Manufacturer’s certificates.
- All other hazardous area activities such as design, procurement and most importantly site installations and third party inspections and verifications and approvals to be executed based on all normative standard requirements as stipulated in IEC 60079 series of standards.

CONCLUSIONS

- Compliance with **ESMA** Technical Regulation and **ECASex** Assessment Scheme consequently IECEx scheme are mandatory in UAE countries in all state controlled oil and gas assets and private enterprises, Joint Ventures, explorations and treatment and production facilities.

IND EX ME LLC APPROACH – FOLLOW UP

- ▶ Definition of scope ▶ Design ▶ Specification ▶ Procurement (product, services) ▶ Implementation ▶ Start-up
- ▶ Operation ▶ Relocation ▶ Modification ▶ Maintenance ▶ Repair ▶ Shutdown

In all cases the guidance of Ex personnel Competence shall be part of the project and operational team.

At all steps the knowledge of the necessary minimums like information about technology, hazardous material, zone classification, requirements for various documentations like SEP, VD, certificates, if possible EPD, lifetime tracking, inspections, competence shall be covered in order to achieve the full Ex Compliance.

All together will make the site Ex for the total length of its lifetime. No other way.

In order to get the plant operational license and maintain it for the total lifetime of site the owner of the site has to be able to prove all above.

NEED Advice?

(ask our colleagues for the primary checklist)

