



IECEX FPSO PROJECT CASE STUDY

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Project Description

ATEC has been supporting one of the largest **FPSO OPERATORS** in the industry, assuring that their new build projects meet international and in-country standards, directives, and project specifications in relation to their use within potentially explosive atmospheres.

Industry:
O&G Production

Business Challenges:

- H&S Compliance
- Plant Reliability

Keys to Success

- ATEC standard certification procedures
- Competent certified inspectors
- Detailed project management
- Ability to interpret standard and propose cost effective ALARP solutions

Project Details

ATEC has been carrying out **Design Reviews** starting with:

- Creating a compliance plan for sign off by the regulator
- REV 1 “registers” – commenting and advising up until “as-built stage”
- Area Classification reviews (against IEC60079-10.1)
- Certification review, comments (& recertification of ‘U’ component equipment where necessary)
- Standardization of electronic dossier/contents and set up & integration of digitized inspection capture system
- Initial Inspection on the finished installation involving 100% Detailed Inspection of all electrical equipment installed.

All continuously reviewed against the compliance plan to **ensure compliance.**

Benefits to Client

The benefits to our client are multifaceted.

By reviewing their product design, we were able to confirm that the design:

- Complies with the specification laid down in the project.
- Local & International standards are being followed.
- The design has the appropriate certificate and associated documents to meet conditions of use.
- **Avoids costly mistakes** (replacing wrongly or non-certified equipment).

Results:

- Removal on intolerable safety risk
- Compliance with company and international standards
- Overall project cost savings of over 10% by reducing re-work.

Standards Referenced

- IEC 60079 SERIES
- ISO 80079 SERIES
- AS/NZS 60079 SERIES
- AS/NZS 3000

By carrying out an Initial detailed Inspection, we were able to confirm the installation:

- Has been made as per the specification laid down in the project.
- Local & International Standards are being followed.
- Has been installed without damage and as per any conditions of use.
- Has a comprehensive “Ex” dossier to back up full compliance “as-built”.
- Provides assurance to the vessel stakeholders that a 3rd Party verification has been carried out by an **IECEx Certified Inspection Service Facility** and that the agreed compliance plan is followed 100%

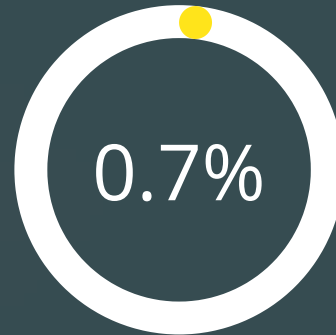
Benefits to Client



9%

Of Project Total

Client historical average percentage value of overall project cost for rework without 3rd Party verification.



0.7%

of Project Total

Client recent average percentage value of overall project cost for rework with 3rd Party verification.

ATEC has been engaged on these projects for over 24 months utilizing over 10,000 man-hours – all without any Lost Time Accidents (LTA's) or Incidents (LTI's) in full compliance with required Client Procedures along with relevant Country & International Standards.

About ATEC Services

The go-to company for hazardous area compliance around the world. We provide specialized safety training and inspection services for companies in Potentially Explosive Atmospheres.

With Offices, Training and Inspection Centers in Houston and Singapore, the group is dedicated to the safety of personnel and asset protection by supplying International NEC/IEC Electrical Cables & Hazardous Area Accessories, Atex, IECEx competence training, including CompEx assessments, facility compliance and equipment inspection services.