

# FSRU, FSO, FPSO, FDPSO OIL & GAS FACILITIES AND TERMINALS (ON & OFFSHORE)



Refineries and Bulk Plants are the main organs of the O & G Industry however, without the Terminals / Port Facilities to export the products the Refineries and Bulk Plants cannot be productive.

The International Ship & Port Security (ISPS) Code has given the Maritime Industry a security structure to adhere to which ISS now strongly recommends be applied equally to Oil and Gas Facilities that interface with Ships and Ports.



Offshore Facilities (including FSRU, FSO, FPSO, FDPSO) are, in some countries, now referred to as Port Facilities and therefore can require Port Facility Security Assessments and Plans even though compliance under the IMO ISPS Code is only voluntary at this time.

**Infinite Security Solutions** (ISS) Oil & Gas Consultancy team has both the technical and practical knowledge to aid Offshore Facilities in ensuring that they are compliant under the ISPS regulations. ISS is experienced and able to carry out varying aspects from a security perspective including Risk Assessments, Command & Control, Costing, Strategic & Tactical Solutions, System Integration, Security Management System (SMS), C2 through to C4I Development (Security Assessments, Plans & Procedures), Staffing and Training (Drills & Exercises).

ISS recommends a layered approach from Corporate Security Plans through to individual asset security plans integrated, where possible, with the Safety / Emergency / Contingency plans. ISS's role (as Risk & Security Consultants) is to develop the security aspect and ensure alignment of all plans to simplify policy and procedures and ensure all plans are supporting and not contradictory.

## **New Projects (or Asset Command and Control consolidation)**

During the concept, design and fabrication of new facilities, ISS's role (Risk & Security) as a part of the O & G Consultancy Team is to develop the risk table and provide sensible cost effective mitigation solutions for the identified risks and ensure that the designers and equipment suppliers can meet the end users requirements.



All assets including FSRU, FSO, FPSO and FDPSO's require a Risk and Security Command and Control location, whether simple or sophisticated, depending on the complexity of the Facility. This is normally designed and operated through the Facility's Operation/Control Room.

As such, the role of our Consultants (Risk & Security) is to bring together all of the various skill sets which are necessary to bring any project to its full potential and fulfil the expectations of the stakeholders.

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### **THE ISS TEAM:**

*Infinite Security Solutions Pte Ltd – Singapore | Infinite Security Solutions Ltd – UK  
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# FSRU, FSO, FPSO, FDPSO

## OIL & GAS FACILITIES AND TERMINALS (ON & OFFSHORE)



The design and the use of an Operation/Control Room requires two different skill sets. The designers have detailed technical knowledge which can produce the best system currently available. The users, on the other hand, have a deep seated practical knowledge of their own environment and the potential problems they face. Invariably the designers do not possess the practical level knowledge nor do the users have high level technical expertise.

Our Risk Consultants will ensure that the Operation/Control Room is a pivotal tool in providing strategic and tactical solutions to the diverse problems facing a Facility from a safety and security / risk perspective.

O & G (incl. FPSO) Consultancy involves:

- Initial Risk Assessment
- Command and Control
- Cost
- Understanding the Concept
- System Solution Identification
- System Integration
- Security Management System (SMS)
- C2 Development, including security assessments, plans and procedures
- Staffing
- Training, Drills and Exercises



The successful vision and operation of any offshore structure in all aspects from a security perspective including the risk, safety, security and operations/control room depends on several factors:

- A detailed scope of the requirement from an operational, risk, IT equipment / solution and human perspective.
- The objective is set and adhered to.
- The correct solutions are identified and factor cost against the operational requirements.
- All solutions identified can be integrated.
- The consultancy team has the authority to interface between all the 'up and down stream' agencies so allowing the early identification of any potential issues which can be mitigated.

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