

# COGFPSO15

## Monitor and control shutdown for FPSO/FSU shuttle tanker operations



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### Overview

This unit is concerned with ensuring the safe and efficient shutdown for FPSO/FSU Shuttle Tanker Operations, and the evaluation of the Shuttle Tanker and Ballast Plan are carried out by the FPSO/FSU Control Room.

This unit deals with the following:

- 1 Shutdown cargo offloading operations

During this work you must take account of the relevant worksite operational requirements, procedures and safe working practices AS THEY APPLY TO YOU.

### Previous Version:

Unit MOT15 National Occupational Standards in FPSO/FSU – April 2005

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### Performance criteria

*You must be able to:*

- P1 respond to shutdown requirements
- P2 maintain communications with relevant internal/external personnel
- P3 monitor and control the shutdown to ensure satisfactory progress
- P4 supervise and co-ordinate the hose/hawser and mooring disconnection procedures
- P5 monitor operations for potentially abnormal situations and deal with them as appropriate
- P6 evaluate and update Shuttle Tanker and Ballast/Offload Plan
- P7 complete all relevant log details

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### Knowledge and understanding

*You need to know and understand:*

- K1 how to respond to shutdown requirements
- K2 how to monitor and control the shutdown to ensure satisfactory progress
- K3 the hose/hawser and mooring disconnection procedures
- K4 how to evaluate and update Shuttle Tanker and Ballast/Offload Plan
- K5 how to clearly and accurately complete all the relevant log details
- K6 how to select, use and care for PPE (to include sight/hearing protection, gloves, footwear, hard hats, respirators)
- K7 the implications of statutory (e.g. HASAWA and COSHH) and organisational requirements
- K8 how to interpret operational requirements (e.g. relevant policies, procedures, instructions, codes of practice, standards and schedules)
- K9 the location and identity of all control room equipment using P + ID's as appropriate
- K10 the layout of appropriate working areas (e.g. control room, control stations)
- K11 the layout/function/operation of: process flows, ballast system, cargo system, crude oil washing, inert gas system, cargo heating system, cargo metering, cargo offloading system, shuttle tanker mooring system, FPSO/FSU mooring system, bunkering systems (e.g. polymers, potable water, lube oil, diesel), instrument and plant air, vessel cooling water, diesel system and hydraulic system using P & ID's and Process Flow Diagrams as appropriate
- K12 the location of process high pressures, high temperatures and the relevant safety measures
- K13 how to carry out effective trouble shooting procedures
- K14 the location, function and operation of ESD systems using P & ID's as appropriate
- K15 how to carry out effective handovers between shifts and maintain continuity
- K16 the permit to work system
- K17 how to carry out positive reporting of instructional actions, tasks, safety measures and checks ensuring reports are clear, accurate and complete
- K18 the emergency procedures relevant to the cargo handling system
- K19 the emergency procedures relevant to the ballast control system
- K20 the emergency procedures relevant to shuttle tanker operations

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**Developed by** Cogent

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**Originating organisation** Cogent

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**Relevant occupations** Engineering and manufacturing technologies; Engineering; Process, Plant and Machine Operatives; Plant and Machine Operatives

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**Suite** Floating Production & Storage Offload (FPSO)

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**Key words** safe, efficient, shut down, shuttle tanker operations, evaluation, ballast plan