

COGFPSO13

Monitor and control cargo offloading operations with shuttle tanker



Overview

This unit is concerned with ensuring that the cargo offloading operations are safely and efficiently monitored and controlled from the FPSO/FSU Control Room and that all potential operational hazards (to include stability) are safely and effectively managed during the cargo offloading operations.

This unit deals with the following:

- 1 Monitor and control 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 MOT13 National Occupational Standards in FPSO/FSU – April 2005

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Performance criteria

You must be able to:

- P1 monitor cargo offloading and ballast operations
- P2 update impact to weather conditions on operations
- P3 evaluate heading control requirements against operational parameters as appropriate
- P4 establish and maintain navigational operational parameters as appropriate
- P5 monitor operations for potentially abnormal situations and deal with them as appropriate
- P6 maintain communications with shuttle tanker supervisor and operators
- P7 carry out routine duties, checks and procedures and report as appropriate
- P8 complete ongoing log details

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Knowledge and understanding

You need to know and understand:

- K1 the maximum permissible export rate and reasons for limitations
- K2 the layout of cargo tanks, pipelines, gauges and valves relevant to discharging operations
- K3 cargo pump operational characteristics, capabilities and controls
- K4 how to monitor cargo offloading and ballast operations
- K5 the procedures for evaluating heading control requirements (e.g. turret, thrusters prevailing weather data) against operational parameters as appropriate
- K6 how routine duties, checks and procedures must be carried out and reported
- K7 how to clearly and accurately complete the relevant log details
- K8 the FPSO/FSU telemetry systems
- K9 how to select, use and care for PPE (to include sight/hearing protection, gloves, footwear, hard hats, respirators)
- K10 the implications of statutory (e.g. HASAWA and COSHH) and organisational requirements
- K11 how to interpret operational requirements (e.g. relevant policies, procedures, instructions, codes of practice, standards and schedules)
- K12 the location and identity of all control room equipment using P + ID's as appropriate
- K13 the layout of appropriate working areas (e.g. control room, control stations)
- K14 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
- K15 the location of process high pressures, high temperatures and the relevant safety measures
- K16 how to carry out effective trouble shooting procedures
- K17 the location, function and operation of ESD systems using P & ID's as appropriate
- K18 how to carry out effective handovers between shifts and maintain continuity
- K19 the emergency procedures relevant to the cargo handling system
- K20 the emergency procedures relevant to the ballast control system
- K21 the emergency procedures relevant to shuttle tanker operations
- K22 the permit to work system
- K23 how to carry out positive reporting of instructional actions, tasks, safety

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measures and checks ensuring reports are clear, accurate and complete

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Developed by Cogent

Version number 1

Date approved June 2009

Indicative review date June 2011

Validity Current

Status Original

Originating organisation Cogent

Original URN FPSO13

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

Suite Floating Production & Storage Offload (FPSO)

Key words cargo offloading, operations, safely, efficiently, monitored, controlled