

COGFPSO28

Contribute to the planning and preparation for FPSO/FSU shuttle tanker operations



Overview

This unit is concerned with ensuring that a safe and efficient contribution is made by the FPSO/FSU Deck Operator to the planning and preparation for FPSO/FSU Shuttle Tanker operations.

This unit deals with the following:

- 1 Contribute to the planning and preparations

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 MDO28 National Occupational Standards in FPSO/FSU – April 2005

COGFPSO28

Contribute to the planning and preparation for FPSO/FSU shuttle tanker operations

Performance criteria

You must be able to:

- P1 contribute to FPSO/FSU/Field operational pre-planning as appropriate
- P2 update operations to take into account impact of weather conditions
- P3 establish and maintain communications with relevant personnel
- P4 confirm vessel, process, ballast, tank status and tank priorities and report
- P5 complete pre-operational operations/checks and report
- P6 carry out hawser/hose transfer operations as required
- P7 contribute to ongoing operations records

COGFPSO28

Contribute to the planning and preparation for FPSO/FSU shuttle tanker operations

Knowledge and understanding

You need to know and understand:

- K1 information sources for cargo offloading operations
- K2 layout of tanks, pipelines, gauges and valves for cargo offloading operations
- K3 how to update operations to take into account impact of weather conditions for mooring, unmooring and offloading operations
- K4 procedures for confirming and reporting vessel, process, tank status and tank priorities
- K5 how to carry out the pre-operational operations/checks and reporting action necessary
- K6 the structure/characteristics/operation of the hose/hawser handling equipment
- K7 the maximum allowable load on hose/hawser handling equipment
- K8 the offloading connection and disconnection activities with shuttle tanker and standby vessel necessary to ensure safe and efficient operation
- K9 the procedures for verifying and confirming the status of cargo system (to include processing with temperature control, offloading/metering, storage, isolated tanks, offloading stations, shuttle connection), ballast system and inert gas system
- K10 line deployment methods and equipment
- K11 hawser operations for tandem mooring
- K12 hawser transfer operations, to shuttle tanker, retrieval and stowage, emergency disconnection
- K13 how to select, use and care for PPE (to include sight/hearing, protection, gloves, footwear, hard hats, respirators)
- K14 the implications of statutory (e.g. HASAWA and COSHH) and organisational requirements
- K15 how to interpret operational requirements (e.g. relevant policies, procedures, instructions, codes of practice, standards, schedules) to include station bill and emergency procedures
- K16 how to locate and identify associated process equipment using P + ID's and Process Flow Diagrams as appropriate
- K17 the layout/function/operation of: process flows, ballast system, cargo system, crude oil washing, inert gas system, crude off-loading and metering, FPSO/FSU mooring system, instrument and plant air, vessel cooling water, diesel system, hydraulic system, fire and gas system, using P + ID's and Process Flow Diagrams as appropriate
- K18 how to manually initiate the deluge systems, the various fire suppression systems and fixed and portable fire fighting systems
- K19 the geography of the installation

COGFPSO28

Contribute to the planning and preparation for FPSO/FSU shuttle tanker operations

- K20 the safety measures that need to be put in place and all the safety practices/procedures which must be adhered to
- K21 how to effectively establish and maintain effective fixed/mobile communications between the relevant internal/external personnel
- K22 how to carry out effective handovers between shifts and maintain continuity
- K23 the procedures necessary to carry out effective trouble shooting
- K24 the location, function and operation of ESD systems using P & ID's as appropriate
- K25 the location of process high pressures, high temperatures and the relevant safety measures
- K26 the permit to work system
- K27 the emergency procedures relevant to the cargo handling system
- K28 the emergency procedures relevant to the ballast control system
- K29 the emergency procedures relevant to shuttle tanker operations

COGFPSO28

Contribute to the planning and preparation for FPSO/FSU shuttle tanker operations

Developed by Cogent

Version number 1

Date approved June 2009

Indicative review date June 2011

Validity Current

Status Original

Originating organisation Cogent

Original URN FPSO28

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

Suite Floating Production & Storage Offload (FPSO)

Key words deck operator, planning, preparation, shuttle tanker, operations
