

COGFPSO19

Contribute to the preparation to start up marine and storage systems



Overview

This unit is concerned with ensuring that a safe and efficient contribution is made by the FPSO/FSU Deck Operator in the preparation for starting of the Marine and Storage systems, as defined by your organisation, for the following Marine Operations:

- 1 cargo handling
- 2 ballast handling
- 3 processing
- 4 offloading
- 5 storage operations
- 6 controlled space entry

This unit deals with the following:

- 1 Prepare to start up marine and storage systems

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 MDO19 National Occupational Standards in FPSO/FSU – April 2005

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Performance criteria

- You must be able to:*
- P1 confirm and report the vessel, process, ballast tank status and tank priorities
 - P2 verify the cargo system, ballast system, crude oil washing system and inert gas system status
 - P3 confirm controlled space entry routines
 - P4 activate all necessary Field panel inhibits and trips reset
 - P5 maintain effective internal communications with relevant personnel
 - P6 carry out safety check prompts and report
 - P7 confirm operational fixed mooring system tests and report
 - P8 prepare offloading and bunker stations and report ready
 - P9 verify correct valve and line status for start up

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Knowledge and understanding

You need to know and understand:

- K1 how to confirm tank status (to include cargo handling, ballast handling processing, offloading, storage isolated, crude oil washing, hot water washing, inerted, purged, gas freed)
- K2 the controlled space entry routines (to include restricted space (e.g. machinery space), enclosed space (e.g. Ballast Tank))
- K3 how to activate, field panel inhibits and reset trips as required
- K4 how to maintain effective internal communication with relevant personnel (e.g. supervisor, control room operators, process operators) as appropriate
- K5 how to carry out the safety check prompts (to include tank oxygen analyser, tank scope, explosimeter)
- K6 how to confirm the operational tests on fixed mooring systems
- K7 the procedure for preparing the offloading station and bunker stations to readiness status
- K8 the correct valve and line status for start up and the process set-up parameters
- K9 the purposes of the major isolation valves on the oil process train
- K10 how to select, use and care for PPE (to include sight/hearing, protection, gloves, footwear, hard hats, respirators)
- K11 the implications of statutory (e.g. HASAWA and COSHH) and organisational requirements
- K12 how to interpret operational requirements (e.g. relevant policies, procedures, instructions, codes of practice, standards and schedules)
- K13 how to locate and identify associated process equipment using P & ID's and Process Flow Diagrams as appropriate
- K14 the structure/function/operation of: process flows, ballast system, cargo system, crude oil washing, inert gas system, cargo heating system, cargo metering, cargo offloading system, mooring system, bunkering systems – polymers potable water, lube oil diesel, instrument and plant air, vessel cooling water, diesel system, hydraulic system using P + ID's and Process Flow Diagrams as appropriate
- K15 the safety measures that need to be put in place and all the safety practices/procedures which must be adhered to
- K16 how to effectively maintain communications between all operators patrolling the plant and the Control Room
- K17 how to carry out positive reporting of designated actions, assigned tasks, safety measures and checks ensuring reports are clear, accurate and complete
- K18 how to carry out effective handovers between shifts and maintain continuity
- K19 the procedures necessary to carry out effective trouble shooting

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- K20 the location, function and operation of ESD systems using P & ID's as appropriate
- K21 the location of process high pressures, high temperatures and the relevant safety measures
- K22 the permit to work system
- K23 the emergency procedures relevant to the marine and storage systems

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