

COGJO3

Contribute to the transfer of product in jetty operations



Overview

You will be involved in activities such as:

- 1 fill pipeline with product
- 2 monitor transfer of product

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

Previous Version:

Liquid Transfer & Storage National Occupational Standards – July 2005

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Performance criteria

You must be able to:

- P1 fill the appropriate pipelines
- P2 vent the air and vapour as appropriate
- P3 ensure that the test-cocks are checked and fully secured after testing
- P4 check that the tank valves are reset after flooding
- P5 communicate all relevant information to the appropriate people
- P6 deal promptly and effectively with problems that are your responsibility, and report those that you cannot solve and/or are not your responsibility to the relevant person
- P7 work safely in accordance with operational and environmental requirements
- P8 obtain and confirm all relevant information
- P9 monitor all relevant variables
- P10 take appropriate action if any variations are unacceptable
- P11 confirm that ship's personnel are monitoring the condition and of the tank atmospheres
- P12 take the appropriate action if measurements and/or trends indicate that there is, or will be problem
- P13 ensure that all relevant safety checks are completed according to prescribed procedures
- P14 take appropriate action if vapour dispersion appears to be hazardous
- P15 visually check the condition of the water around the transfer operation for any signs of pollution
- P16 report results to the relevant personnel, and take appropriate action if signs of pollution are seen
- P17 check all environmental conditions during transfer operation and compare with prescribed limits

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Knowledge and understanding

You need to know and understand:

- K1 how and when to vent air and vapour
- K2 the causes and signs of pressure problems
- K3 the signs of pressure problems in pipelines and hoses (to include abnormal gauge readings; joint and valve leakage including valve passing; lifting of pressure relief valves)
- K4 the causes of pressure problems in pipelines and hoses (to include pumping rates and the influence of ambient temperature)
- K5 how to select, use and care for appropriate PPE (to include sight/hearing protection, gloves, footwear, hard hats, respirators)
- K6 how to obtain and confirm information on flow rates, transfer rates, cargo conditions, atmospheric conditions, the equipment, vapour dispersion and environmental conditions
- K7 how to monitor all relevant variables including flow rates during the transfer; line pressure; cargo conditions including temperature; the operation of transfer equipment; vapour dispersion and environmental conditions during transfer
- K8 the appropriate action to take to maintain acceptable and safe transfer of product
- K9 the relevant information that should be communicated

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Additional Information

Scope/range related to performance criteria

1. Fill the pipeline with product. This may include filling by:
 - 1.1. flooding and/or pressurizing
2. Monitor and compare actual pumping rates with agreed pumping rates at specified intervals, taking account of all of the following:
 - 2.1. agreed transfer rates – initial, maximum and topping off
 - 2.2. units of measure and terminology
 - 2.3. pumping principles and procedures
3. Monitor actual transfer, and analyse and compare with agreed cargo transfer plan taking account of all of the following:
 - 3.1. permitted transfer rates line pressures and temperatures
 - 3.2. transfer procedures
 - 3.3. pressure and liquid level limitations
4. Ensure that equipment/loading systems/cargo and return vapour hoses remain within their safe operational envelope by monitoring at prescribed intervals and taking account of all of the following:
 - 4.1. principles and operating procedures of equipment
 - 4.2. equipment capacities and operational limits
 - 4.3. pressure and temperature limits
 - 4.4. all working areas adequately illuminated
5. Ensure that vessel and terminal on going safety checks are completed in accordance with the safety checklist, taking account of all of the following:
 - 5.1. maintaining the correct checking interval
 - 5.2. comparing actual results with expected results
 - 5.3. taking appropriate action if any deficiencies are revealed
6. Monitor the dispersion of cargo vapour taking account of all of the following:
 - 6.1. properties and behaviour of vapour
 - 6.2. formation of vapour dispersal clouds
 - 6.3. relative density of vapours
 - 6.4. precautions against the entry of vapours into enclosures on the terminal
7. Check environmental conditions to include all of the following:
 - 7.1. measurement of sea swell
 - 7.2. measurement of tidal heights
 - 7.3. measurement of wind speeds and directions
 - 7.4. assessment of lightning risks

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Developed by Cogent

Version number 1

Date approved January 2010

Indicative review date January 2012

Validity Current

Status Original

Originating organisation Cogent

Original URN JO3

Relevant occupations Professional Occupations; Engineering Professionals; Engineering and manufacturing technology; Engineering

Suite Jetty Operations

Key words contribute, transfer, product, jetty, operations, fill, pipeline, monitor