

Commissioning downstream operations

Overview

This standard is about your contribution to the starting-up process.

This standard deals with the following:

- 1 Complete pre start-up checks and tests
- 2 Start up plant and equipment to achieve normal operating conditions
- 3 Manage abnormal start-up conditions

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

This Standard is suitable for those working in the downstream fuel environment.

Previous Version:

Adapted from Unit 13 of Refinery Field Operations NOS – version April 2005

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Performance criteria

- You must be able to:*
- P1 obtain the appropriate authorisation and documentation for start-up
 - P2 correctly identify control systems
 - P3 co-ordinate checks with the appropriate people
 - P4 complete each test and check within the defined limits
 - P5 commission each stage of the plant according to start-up procedures
 - P6 implement a logical scanning routine and respond appropriately to alarms
 - P7 achieve normal operating conditions and specifications within the defined timescale
 - P8 identify any abnormalities
 - P9 report the abnormality to the appropriate personnel for action
 - P10 identify the potential impact of the abnormality and inform relevant people
 - P11 provide clear and timely instructions to field operators
 - P12 prioritise problems and co-ordinate appropriate additional assistance
 - P13 correct the abnormality and minimise wastage
 - P14 communicate all relevant information to the appropriate personnel
 - P15 complete all relevant documentation
 - P16 work safely in accordance with operational requirements

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Knowledge and understanding

- You need to know and understand:*
- K1 the implications of statutory and organisational requirements
 - K2 how to interpret operational requirements
 - K3 how and when to communicate information with the appropriate people
 - K4 the process principles
 - K5 the operating principles of control systems, trip systems and logic sequences
 - K6 how to access and interpret the plant manuals
 - K7 the start-up procedures
 - K8 how to work with and within the Permit to Work system
 - K9 how to access, interpret and progress start-up documentation and authorisation
 - K10 how to correctly identify control systems and co-ordinate checks
 - K11 how to access, interpret and progress the relevant records
 - K12 the principles, purpose and significance of commissioning
 - K13 how to implement a logical scanning routine
 - K14 what the normal conditions are and how to achieve them
 - K15 how to minimise waste during start-up
 - K16 how to identify abnormalities
 - K17 how to identify the potential impact of the abnormality
 - K18 how to prioritise problems
 - K19 how to identify the need for additional assistance and the nature of that assistance

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