



Australian Government

Department of Education, Employment and Workplace Relations

FPPSTM1A Manage steam boiler start-up

Release: 1

FPPSTM1A Manage steam boiler start-up

Modification History

Not applicable.

Unit Descriptor

Not applicable.

Application of the Unit

Not applicable.

Licensing/Regulatory Information

Not applicable.

Pre-Requisites

Not applicable.

Employability Skills Information

Not applicable.

Elements and Performance Criteria Pre-Content

Not applicable.

Elements and Performance Criteria

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Element	Performance Criteria
1 Conduct pre-operational safety checks.	1.1 Work/output requirements are established. 1.2 Pre-operational and safety checks are conducted in accordance with Standard Operating Procedures. 1.3 Availability of process supplies are confirmed.

- 1.4 Work is completed within OH&S, SOP, environmental and safe working requirements and practices.
- 2 **Conduct start-up procedures.**
 - 2.1 Isolations are removed in accordance with SOP.
 - 2.2 Pre-light conditions are established in accordance with SOP.
 - 2.3 Boiler is started and brought on-line according to SOP.
 - 2.4 System and plant is observed for correct operational response.
 - 2.5 Boiler condition during start-up is monitored to detect abnormal conditions.
 - 2.6 Deviations from required operating conditions are detected and corrective action undertaken to rectify.
 - 2.7 Responses to corrective actions are documented as required by SOP.
 - 2.8 Work is completed within OH&S, SOP, environmental and safe working requirements and practices.
- 3 **Implement area housekeeping and cleaning.**
 - 3.1 Potential work area hazards are identified and reported.
 - 3.2 Prevention/control measures are employed.
 - 3.3 Chemical/hazardous wastes are disposed in accordance with SOP.
 - 3.4 Solid waste disposal is in accordance with SOP.
 - 3.5 Routine documentation is maintained and logged in accordance with SOP.
 - 3.6 Work is completed within OH&S, SOP, environmental and safe working requirements and practices.

Required Skills and Knowledge

Not applicable.

Evidence Guide

Implements isolation and access procedures.
Interprets documentation.
Describes plant layout and status identification.
Explains purpose and operation of plant and systems.
Reads and interprets instruments, gauges and data recording equipment.
Explains pre-operational checks and requirements.
Starts up and operates boiler system.
Reads and interprets specifications and customer orders.
Reports and documents information.
Uses effective verbal and written communication.
Explains boiler water treatment system and reasons for treatment.
Explains statutory responsibilities.
Maintains a clean and hazard free work area.
Implements confined space procedures.
Complies with all OH&S requirements.
Completes all pre-start checks and procedures.
Demonstrates ability to consistently set-up and start boiler within specified time.
Ensuring that handling and/or rectification of start-up problems comply with SOP or site agreements.
Maintains documentation requirements.
Works within OH&S, SOP, environment and safe working requirements and practices.
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Range Statement

Range Statement

The competencies described in this group of units relate to those functions inclusive of the following boiler types:

Please note:

A single Range Statement has been prepared to cover all Units in Steam Generation. The actual context/conditions for each Unit would be drawn from the mill's customised version of this Range Statement.

- . fire tube
- . saturated boiler
- . water tube
- . super heated

and may be operated in conjunction with other steam driven plant and operations including:

- . paper making machines
- . turbines
- . digesters
- . heating plant

Materials/supplies:

- . chemicals
- . coal
- . oil
- . gas
- . additives
- . air
- . water
- . wood waste
- . steam
- . recovery process products
- . power

Equipment:

Equipment appropriate to steam generation processes and may include the following:

- . boiler and auxiliary plant
- . boiler heating systems
- . fuel and fuel delivery system plant
- . dust removal and combustion waste
- . fuel management system
- . extraction systems
- . water distribution systems
- . compressed air systems
- . steam temperature control plant
- . chemical dosing system
- . water treatment system
- . flare detection equipment
- . hand and power tools

Legislation, policy and procedures:

- . OH&S
- . environmental and statutory legislation

- . enterprise policies and procedures
- . Standard Operating Procedures (SOP)
- . appropriate boiler/pressure vessel operator certification

Documentation/procedures/reports:

- . SOP
- . job sheets
- . grade specifications
- . manufacturer's specifications
- . maintenance logs
- . statutory requirements
- . Materials Safety Data Sheets (MSDS)
- . operator's log
- . process and instrument diagrams

Maintenance:

- . as per site agreement
- . maintenance schedules
- . maintenance systems

Sampling/testing: [excludes FPPSTM3A]

- . feed water quality
- . assessments of process operations

Technology:

- . fully automated, semi automated, manually operated plant and equipment
- . enter/extract computer data, electronic screens and alarms, analogue and digital instrumentation

Communication channels:

- . internal/external customers and suppliers
- . statutory authorities
- . team members
- . maintenance/services co-ordinators
- . maintenance services

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Unit Sector(s)

Not applicable.