



Australian Government

UEPOPS101 Operate and monitor HRSG hot gas control system

Release: 1

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Modification History

Release 1. This is the first release of this unit of competency in the UEP Electricity Supply Industry – Generation Sector Training Package Release 2.0.

Application

This unit involves the skills and knowledge required to operate, inspect and monitor heat recovery steam generator (HRSG) hot gas control systems.

HRSGs are used to recover heat from hot gas streams which is then supplied to a steam turbine to generate additional electric power. The hot gas control system is used to operate the internal gas return and bypass system in the HRSG.

Competency in this unit requires the ability to plan work, operate HRSG plant, test HRSG plant, analyse HRSG plant faults, monitor and inspect HRSG plant, and complete all documentation. Individuals will, in general, work under supervision, in a power generation facility as an operator.

Power generation plant operators are trained and authorised to isolate, prepare plant and issue permits to work.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

There are no prerequisite units

Competency Field

Operations

Unit Sector

Electricity generation

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

PERFORMANCE CRITERIA

Performance criteria describe the performance needed to demonstrate achievement of the element.

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| 1 Plan and prepare work | <ul style="list-style-type: none">1.1 Work health and safety (WHS)/occupational health and safety (OHS) regulations, legislative requirements, codes of practice, manufacturers' recommendations and specifications, environmental requirements and workplace procedures are identified, applied and monitored1.2 Work requirements are identified from relevant personnel and documentation in accordance with workplace procedures1.3 Documentation to determine HRSG hot gas control system plant status is assessed and evaluated in accordance with workplace procedures1.4 Inspection and field preparation for HRSG hot gas control system plant service is carried out in accordance with manufacturers' recommendations and specifications, and workplace procedures1.5 HRSG hot gas control system plant operational prerequisites are established in accordance with manufacturers' recommendations and specifications, and workplace procedures1.6 Sequence for recommissioning of HRSG hot gas control system plant is determined to suit existing circumstances in accordance with workplace procedures |
| 2 Operate HRSG hot gas control system plant | <ul style="list-style-type: none">2.1 HRSG hot gas control system plant is operated in accordance with manufacturers' recommendations and specifications, and workplace procedures2.2 HRSG hot gas control system plant is monitored and observed to detect deviations from normal operating conditions in accordance with workplace procedures2.3 Corrective actions are taken to rectify HRSG hot gas control system plant abnormalities in accordance with manufacturers' recommendations and specifications, and workplace procedures |
| 3 Test and analyse HRSG hot gas control system plant operation | <ul style="list-style-type: none">3.1 Operational tests are performed in accordance with workplace procedures3.2 HRSG hot gas control system plant is observed for correct operational response in accordance with workplace procedures |

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| | 3.3 | HRSG hot gas control system plant is returned to required operational status upon completion of test in accordance with workplace procedures |
| | 3.4 | Cause of abnormal HRSG hot gas control system plant operating conditions are identified by analysing technical and operational information in accordance with workplace procedures |
| 4 Monitor and inspect HRSG hot gas control system plant | 4.1 | HRSG hot gas control system plant to be monitored and inspected is physically identified in accordance with workplace procedures |
| | 4.2 | HRSG hot gas control system plant is monitored and inspected for normal operation and to detect deviations in accordance with workplace procedures |
| 5 Complete documentation | 5.1 | HRSG hot gas control system plant problems, movements, abnormalities and status are reported in accordance with workplace procedures |
| | 5.2 | Documentation is updated in accordance with workplace procedures |

Foundation Skills

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

Range of Conditions

Range is restricted to essential operating conditions and any other variables essential to the work environment.

Non-essential conditions may be found in the UEP Electricity Supply Industry – Generation Sector Training Package Companion Volume Implementation Guide.

Unit Mapping Information

This unit replaces and is equivalent to UEPOPS333 Operate and monitor HRSG hot gas control system.

Links

Companion Volume implementation guides are found in VETNet -
<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=1715b9fa-e7bd-441c-bb8d-cf22c9c825a8>

