

STEAM PLANT OPERATOR
(Class Code 5624)
Task List 2024

Plant Operations

1. Operates a steam/electric generating plant by using remote control boards and computer workstations at equipment (i.e., turbines, generators, high-pressure boilers, auxiliary equipment, and electrical switching facilities) facilities, in order to address any issues and ensure proper plant operating conditions.
2. Discusses with control operators prior shift's activities by face to face communication regarding abnormal operating conditions, outages, unusual events, and pertinent documentation in order to be aware of occurrences in prior shift.
3. Reads schematic (electrical and piping), digital signal diagrams, and D sheets when needed in order to locate the areas in which needs to be isolated by identifying which valves and switches need to be opened or closed in order to determine areas where the problems are occurring.
4. Completes and reviews reports, forms, and logs (i.e., Faulty Equipment Notice, Switching Orders, Bid and Work Authority Documents, Common Boundary Tracking Sheets, Station and Unit Logs, and Equipment Reading Sheets) by ensuring all information is complete and accurate in order to maintain a chronological activity progression and records.
5. Receives orders and communicates with the Energy Control Center load dispatchers via telephone regarding unit status (startups, shutdowns, load changes, and Estimates Time of Return (ETRs) for equipment), system voltage requirements, switching orders, and documents (i.e., bids and work authorities) instruction in order to meet system demands.
6. Communicates with Steam Plant Assistants via face to face, radio, and telephone using three-way communication to ensure tasks are completed safely and correctly.

Isolates Equipment

7. Receives and reviews Bids for equipment needing to be isolated for repairs; creates isolations using prints, tagging lists, accident prevention tags, and records/updates documentation in the bid and work authority log in order to ensure a safe work environment.
8. Discusses safety aspects of an equipment isolation with a Steam Plant Operating Supervisor by communicating face to face or via telephone to determine if work

can be done with equipment running or if a unit needs to be shut down; to determine how to proceed with the isolation in the safest manner.

9. Communicates with the Steam Plant Assistants and maintenance personnel regarding the isolation list by pointing out areas of isolation; valves and/or switches; and reviewing the safety aspects in order to direct them in performing isolation correctly, safely, and efficiently.
10. Receives oral reports from Steam Plant Assistants as to exactly what was done during isolation, which valves were closed/opened, switches opened/closed, and what was tagged in order to assure isolation was performed properly.

Raises or Lowers Plant Load

11. Monitors pressure, temperature, steam flow, feed water flow, gauges, and excess oxygen to determine if additional and/or fewer pumps and burners are needed to facilitate load changes in order to ensure that equipment output aligns with the changes in load.
12. Manually controls equipment (draft fans, fuel gas, feed water drum, drain valves, and storage tank levels) and performs unit startups by establishing drum levels, lighting fires, building pressure and increasing metal temperatures at controlled rates; transfers equipment from manual to automatic operation when appropriate to do so to ensure proper operation of the unit.
13. Monitors emission systems through the Continuous Emission Monitoring System (CEMS) and performs corrective actions to achieve emission limits that need to be met; and knowing start-up and shutdown limits in order to meet the compliance requirements and report any possible exceedances to the operating supervisor as soon as possible.

Training

14. Trains and mentors Steam Plant Assistants and/or new Steam Plant Operators by explaining their job requirements, expectations, tasks, performing check-offs, reviewing diagrams and drawings, and demonstrates and/or provides instructions in order to assure new employees properly learn all policies, procedures, and systems and keeps supervisor updated on the training status of subordinate staff.