



2ND CLASS STATIONARY ENGINEER

Department: Aviation
Unit: 2060
Union: Local 25

Supervisor's Titles: Manager, Central Heating Plant/HVAC; Watch Engineer

The Massachusetts Port Authority (Massport) is currently accepting bids for the position of 2nd Class Stationary Engineer (Bargaining Unit, Local Union No. 25) at Logan International Airport. The 2nd Class Stationary Engineer performs operational and maintenance duties in the Central Heating Plant at Logan International Airport.

ESSENTIAL TASKS OF THE JOB

Operates and controls the central heating plant during scheduled watches.

1. Monitors all Central Heating Plant systems.
2. Inspects gas/oil fired boilers, chillers, water quality, and cooling tower systems.
3. Repairs replaces and maintains gauges, meters, piping, pumps, circulators, condensate units, fans, compressors, oil levels, tanks, burners (nozzles, tips, atomization), valves, steam driven turbines and other MPA power plant systems; logs and documents all inspections.
4. Monitors, tests, and maintains water quality; repairs, replaces and maintains water quality equipment; samples and chemically tests water quality; adds anti-corrosive chemicals to water treatment system as needed.
5. Operates the computer based automated control systems software including response to critical alarms.

Performs preventive annual inspection, maintenance and cleaning of boilers and boiler tanks.

1. Conducts shut down of boilers to conduct internal cleaning and inspection.
2. Performs interior inspection of the boiler and boiler tank.
3. Cleans interior piping and boiler tank to remove deposits.
4. Assesses extent of repairs necessary, trouble shoots and contacts supervisor regarding need for outside contractors.
5. Refires boiler.

Repairs, inspects and maintains piping and other systems as needed.

1. Paints pipes, valves and tanks in appropriate color code.
2. Letters and signs pipes, valves and tanks.
3. Conducts inspection of utility tunnel.

Performs other duties as assigned.

SECONDARY JOB TASKS

Installs, repairs and replaces high pressure and low pressure steam piping, high pressure hot water piping, valves, gauges and joints, as needed.

1. Cuts, threads and sizes pipe.
2. Assesses extent of repair necessary, trouble shoots, and contacts supervisor regarding need for contractors.

Performs other duties assigned.

JOB REQUIREMENTS AND QUALIFICATIONS

Education

High school diploma or equivalent required. Ability to read; basic oral, written and mathematical skills required. Includes manual skills and the ability to operate machinery.

Experience

3 - 5 years' experience in the operation of power plants required.

UNIQUE EXPERTISE/CERTIFICATIONS/REQUIREMENTS

1. Second Class Engineer license required.
2. Knowledge of computer based automated control software of a large physical Central Heating/Cooling Plant preferred.
3. Working knowledge of high-pressure boilers, air conditioning chillers, cooling towers, steam turbines, and other cooling equipment required.
4. Working knowledge of high temperature hot water systems required.
5. Working knowledge of pipefitting required.
6. Working knowledge of chemical treatments for power plants required.
7. Valid and current driver's license unrestricted except for corrective lenses and automatic transmission required.
8. Ability to pass a Massport controlled substances test and background check required.
9. Ability to obtain Massport security clearance.
10. Ability to pass airfield driving test and obtain Aerodrome Ramp and Apron License.

WORKING CONDITIONS

Ability to work in heating plant within an airport environment, with conditions, which may include: fumes, odors, gases, chemicals, and dust as well as decibels in the range of 65 - 100. Ability to work in conditions or situations in which there is

danger to life, health, or bodily injury with a variety of physical hazards, such as proximity to moving parts, electrical shock, working on scaffolding and high places, and exposure to toxic chemical agents. Ability to work in confined spaces and crawl spaces (ability to pass through 14" X 18" door in boiler and boiler tank). Noise: there is sufficient noise, either constant or intermittent, to cause marked distraction.

Physical Demands:

Strength: Exerting up to 70 pounds of force and/or up to 25 pounds of force frequently to move and lift objects.

Type: Ability to discriminate colors on warning panels and to distinguish signal and runway lights; clarity of vision beyond 20 ft; ability to bend, stoop and crawl, to climb ladders. Ability to distinguish warning alarms and bells.

WORK SCHEDULE

Ability to work any shift as assigned, including weekends, for a 40-hour workweek. Available for overtime as assigned.

Equipment Used: Computer, 2-way radio, telephone, logs, hand tools, Air-Lance, anti-corrosive chemicals, pipe cutter/threader and other MPA equipment.