



University System of Maryland Job Class Specification

TITLE: STATIONARY ENGINEER HIGH TEMP/PRESS
FLSA: NONEXEMPT
EEO6: H60
IPEDS-SOC: U-518021

JOB CODE: N12SBW
JOB TYPE: SYSTEMWIDE
JOB FAMILY/SERIES: PHP MNT

APPROVED BY: Chancellor's Designee: 
James Sansbury, Associate VC Financial Affairs/Human Resources

EFFECTIVE DATE: 09/01/2007

JOB SUMMARY

Under general supervision, performs technical maintenance work as a lead operating engineer on a shift in a power plant with central station refrigeration or air conditioning equipment of 500 tons or more and heating or processing boilers of 500 horsepower and above.

PRIMARY DUTIES

1. Functions as chief operating engineer with responsibility for safe, constant and efficient operation of a Central Plant Boiler. Provides guidance and training to first grade stationary engineers on assigned shift.
2. Coordinates inspection, repair and maintenance activities for both emergency and non-emergency conditions. Responds to abnormal situations such as switching pumps and boilers. Functions as liaison with contractors.
3. Operates and maintains central station type reciprocating, centrifugal, or absorption air conditioning and refrigeration equipment with single compressor and chiller units in excess of 500 tons.
4. Records data such as temperature, pressure, hours of operation, fuel consumed, water levels, voltage load and generator balance.
5. Records operation and maintenance actions taken during shift; prepares reports.
6. Performs water tests and modifies water supply as necessary with chemical solutions.
7. Monitors all safety control equipment and meters. Adjusts automatic and manual controls to assure equipment operation within recommended ranges and defined standards.

8. Operates and maintains tools and equipment of the trade. Cleans work area upon completion of project.
9. Manages key control system.

Note: The intent of this list of primary duties is to provide a representative summary of the major duties and responsibilities of this job. Incumbents perform other related duties assigned. Specific duties and responsibilities may vary based upon departmental needs.

MINIMUM QUALIFICATIONS

EDUCATION: High School Diploma or GED.

EXPERIENCE: Five years in the operation of a boiler room facility, three years of which involved boilers over 500 horsepower and chillers in excess of 500 tons.

OTHER: Licensure as a First Grade Stationary Engineer in the State of Maryland.

REQUIRED KNOWLEDGE/SKILLS/ABILITIES

Thorough knowledge of and skill in the operation of multi-fuel boilers with over 500 horsepower and chillers over 500 tons. Thorough knowledge of and skill in applying OSHA regulations related to the central plant boiler facility operations. Thorough knowledge of and skill in applying the principles of electricity, hydraulics, and mechanics. Skill in cleaning, repairing and maintaining boilers and their auxiliaries; in the use and maintenance of the tools and equipment used in stationary engineering; in the use and storage of required fuels. Ability to fire boilers, read gauges, and judge operating efficiency and safety conditions of steam boiler operations; to oversee and coordinate shift operations of the central plant facility; to lead and train first grade stationary engineers in central plant operations and maintenance and repair work; to work in, on, around, over, and under fixed equipment and machinery; to work from ladders and scaffolding; to manipulate heavy equipment, tools, and supplies and/or exert force up to 70 lbs.; to concurrently manipulate multiple controls on machinery and equipment; to work in hazardous or irritating environments, confined spaces and adverse weather and temperature conditions; to wear and work in personal protective equipment; to communicate effectively both orally and in writing.

OTHER: Except for qualifications established by law, additional related experience and formal education in which one has gained the knowledge, skills, and abilities required for full performance of the work of the job class may be substituted for the education or experience requirement on a year-for-year basis with 30 college credits being equivalent to one year of experience.

CONDITIONS OF EMPLOYMENT

Candidates selected for employment may be subject to medical inquiries and/or medical examinations to determine ability to perform the job. Valid Maryland Non-commercial Class C or equivalent driver's license may be required. Employees in this job class may be subject to pre-employment and random drug testing.