



## University System of Maryland Job Class Specification

**TITLE: STATIONARY ENGINEER 1ST GRADE**  
**FLSA: NONEXEMPT**  
**EEO6: H60**  
**IPEDS-SOC: U-518021**

**JOB CODE: N11SB3**  
**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, maintains boilers and furnaces in a boiler plant. Has charge of the operations and maintenance of a boiler plant facility in which the largest boiler is rated not more than 100 pounds of steam pressure or more than 340 hot water degrees and is responsible for safe and efficient operation of equipment.

### PRIMARY DUTIES

1. Inspects equipment to detect routine malfunctions, need for repair, adjustment and lubrication.
2. Reads meters and gauges or automatic recording devices to verify operating conditions.
3. Records data such as temperature, hours of operation, fuel consumption, temperature or pressure, water levels, voltage load and generator balance. Records operation and maintenance actions taken during shift in operators logbook.
4. Performs water tests and adds chemicals such as water softener.
5. Manipulates manual controls and overrides automatic controls to bring equipment into recommended ranges. Determines when to switch to backup equipment or shut down equipment.
6. Performs first echelon cleaning, repair and maintenance of furnaces and boilers.
7. Operates and maintains tools and equipment of the trade. Cleans work area upon completion of assignment.
8. Operates central station type reciprocating centrifugal or absorption air conditioning and refrigeration equipment with single compressor and chiller units in excess of 500 tons each.

9. May provide guidance and instruction to lower level stationary engineers and assigned personnel.

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.

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 and maintenance of high pressure boilers, furnaces, equipment and fuels. Thorough knowledge of OSHA regulations and safety practices related to the boiler room facility; of the principles of electricity, hydraulics, and mechanics. Skill in the use and maintenance of tools and equipment of the trade. Ability to fire boilers; to read gauges and judge operating efficiency and safe conditions of boilers; to adjust burner controls to achieve maximum efficiency; to perform cleaning and major repairs to boilers and their auxiliaries; to work in, on, around, over and under fixed equipment and machinery; to manipulate heavy equipment, tools, and supplies and/or exert force up to 70 lbs.; to concurrently manipulate multiple controls on equipment and machinery; to work from ladders and scaffolding; 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; to provide guidance and instruction to lower level stationary engineers and assigned personnel.

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.