

# MORGAN STATE UNIVERSITY

## JOB SPECIFICATON



### STATIONARY ENGINEER 2ND GRADE

Class Code: 00811  
Pay Range: 08

FLSA Code: N/E (Non-Exempt)

### JOB SUMMARY

Under general supervision, assists higher level stationary engineers in the maintenance of well-functioning 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 50 pounds of steam pressure or more than 300 hot water degrees and is responsible for safe and efficient operation of equipment.

### PRIMARY DUTIES

1. Reads meters and gauges or automatic recording devices at specified intervals to verify operating conditions.
2. Records data such as temperature of equipment, hours of operation, fuel consumption, temperature or pressure, water levels, voltage load and generator balance. Records operation and maintenance actions taken during shift in operator's logbook.
3. Performs water titration tests and pours prescribed chemical additives such as water softener.
4. Adjusts manual controls or overrides automatic controls to bring equipment into recommended ranges, following well-defined standards. Determines when to switch to backup equipment or shut down equipment.
5. Performs inspection of equipment to detect routine malfunctions or need for repair, adjustment or lubrication.
6. Coordinates and performs as necessary cleaning, repair and maintenance of furnaces and boilers.

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7. Maintains equipment by tightening fittings, repacking bearings, replacing packing glands, gaskets, valves, recorders and gauges; replaces burners or other components.
8. Reports any developments which appear to lead to an unsafe operating condition to supervisor.
9. Operates and maintains tools and equipment of the trade. Cleans work area upon completion of project.

**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:** Three years in the operation of a boiler room facility.

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

**REQUIRED KNOWLEDGE/SKILLS/ABILITIES**

General knowledge of and skill in the operation of boilers, furnaces, related equipment and fuels. General knowledge of OSHA regulations and safety practices related to the boiler room facility; of the methods and practices used in maintaining and cleaning boilers; of basic mathematics including area, volume, weights and the practical application of fractions, percentages, ratios, and proportions. Skill in the use and maintenance of tools and equipment of the trade. Ability to fire boilers; to read gauges and judge operating conditions of boilers; to adjust burner controls; to perform cleaning and minor 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.

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**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.