

BOILER OPERATION SHIFT SUPERVISOR II

This is operational and limited supervisory work in the operation of steam boilers for heating purposes. Employees in this class serve as operators and shift supervisors in plants of large size and/or complexity. Duties include starting and shutting down boilers, monitoring various operational readings and making necessary adjustments to maintain efficiency, performing water tests and adding chemicals to water as necessary, performing routine boiler maintenance, assisting in the large maintenance jobs, and directing lower level operators in all of these functions. Work is performed under the general supervision of a steam plant supervisor.

I. DIFFICULTY OF WORK:

Complexity of Work - Work involves all phases of the operation and routine maintenance of larger, more operationally complex boilers. Work includes the overall responsibility for the operation of the largest plants where several large boilers are in operation simultaneously. Work also includes providing on-the-job training to subordinate boiler operators, instructing them in non-routine situations, and monitoring their work.

Intricacy of Work - Periodic rounds are made to record various indicator readings. If readings are outside of required tolerance, valves, pumps, fans, etc., must be adjusted to bring readings back into normal ranges.

Controls Over Work - Employees are responsible for the operation of the steam plant without access to immediate technical assistance.

Judgmental Demands - The start up, operation, shut down and routine maintenance of boilers are covered by standard operational procedures. Judgment is required in determining how many boilers to operate, which boilers, and course of action to be taken in the event of an unexpected failure.

II. RESPONSIBILITY:

Potential - Failure to monitor indicators and make necessary adjustments could lead to structural damage to large, costly boilers. Failure to maintain boiler efficiency would increase heating costs. Improper operation could cause an institution to lose heat or hot water. As shift supervisor, employee is responsible for the safety of others working on the shift. Failure to monitor boilers or take the proper course of action in critical situations could lead to accidents which may result in serious injuries to other workers.

Care and Attention - Indicators must be read accurately and according to schedule. Readings which are out of acceptable ranges must be recognized and adjustments made accordingly. Step by step start up and shut down procedures must be followed exactly. Work of others must be monitored to assure compliance to operating procedures.

III. PHYSICAL EFFORT:

Intensity of Effort - Employees walk, climb and bend to get to and read indicators while making scheduled rounds. Maintenance tasks require the lifting and moving of heavy pumps, valves, etc. Boiler inspection requires working with handtools in awkward positions.

Frequency and Duration - Indicators must be read periodically throughout the shift. Maintenance tasks are performed periodically. Inspections are generally performed two to four times per year.

IV. WORK SURROUNDINGS AND HAZARDS:

Worker Surroundings - Steam plants are continuously noisy and generally hot in the summer months. Employees are exposed to oil and grease while performing routine maintenance tasks and soot and ashes while performing inspections.

Hazardous Conditions - Continuous exposure to noise could cause some hearing impairment. If proper operational procedures are not followed, and safety devices fail, serious accidents could occur endangering the lives of employees.

V. RECRUITMENT STANDARDS:

Knowledges, Skills, and Abilities - Working knowledge of the operation of boilers and related equipment. Working knowledge of the maintenance requirements of boilers and related equipment. Skill in the use and care of tools and equipment used in the maintenance of boilers and related equipment. Physical strength sufficient to perform heavy physical tasks on a periodic basis. Ability to train and supervise other workers.

Minimum Education and Experience - Completion of grammar school and two years of experience in the operation and routine maintenance of large, complex steam boilers; or an equivalent combination of education and experience.