

CLASS TITLE:

**REACTOR OPERATOR
(HEALTH PHYSICS SPECIALTY)**

Class Code: 02799203

Pay Grade: 24A

EO: C

CLASS DEFINITION:

GENERAL STATEMENT OF DUTIES: To serve as an operator of the research reactor in the Rhode Island Nuclear Science Center: (RINSC); to assist in the implementation of an effective radiation protection and monitoring program; and to do related work as required.

SUPERVISION RECEIVED: Works under the technical and administrative supervision of the Assistant Director for Operations and also for the Assistant Director of Radiation and Reactor Safety from whom are received general and specific instructions; work is reviewed in progress, and upon completion for compliance with such instructions and for the execution of duties as a Reactor Operator Health Physics Specialty in competent and safe manner.

SUPERVISION EXERCISED: Usually none, but may assist in supervising the work of a reactor operator trainee.

ILLUSTRATIVE EXAMPLES OF WORK PERFORMED:

To serve as an operator of the reactor at predetermined power levels, taking data from meters, gauges, records and other devices in the control system.

To keep an operating log and other necessary records as mandated by federal regulations.

To take immediate steps to shutdown or scram the reactor when necessary.

To perform all routine procedures necessary during the start-up, operation and shutdown of the reactor.

To serve as duty technician to monitor safety and security systems at the reactor.

To assist in the implementation of a health physics program.

To perform routine area monitoring for possible health hazards.

To issue, collect and maintain records of personal monitoring devices such as film badges and pocket dosimeters, and environmental monitoring devices such as thermoluminescent dosimeters.

To inspect packaging of radioactive materials for shipment and to monitor the moving and general handling within the center.

To prepare and maintain accurate records and reports to comply with Federal Licensing conditions.

To perform calibration of radiation survey and monitoring instruments.

To do related work as required.

REQUIRED QUALIFICATIONS FOR APPOINTMENT:

KNOWLEDGES, SKILLS AND CAPACITIES: A thorough knowledge of the principles, practices, methods and techniques required for the operation of the Rhode Island Nuclear Science Center research reactor and the ability to apply such knowledge, principles, practices, methods and techniques; a working knowledge of and the ability to apply elementary reactor physics and nuclear engineering; a familiarity with the principles, practices and techniques of health physics as applied to the implementation of an effective radiation protection program; the ability to operate various radiation monitoring equipment; the ability to make immediate decisions and to take the proper action to cope with a situation which might arise in the operation of the reactor; and related capacities and abilities.

EDUCATION AND EXPERIENCE:

Education: Such as may have been gained through: graduation from a senior high school and the completion of training at a reactor facility which will permit the United States Nuclear Regulatory Commission to issue a Reactor Operator's License for the operation of the Rhode Island Nuclear Science Center Reactor; and

Experience: Such as may have been gained through: full-time employment as a reactor operator trainee with some experience in the health physics specialty.

Or, any combination of education and experience that shall be substantially equivalent to the above education and experience.

SPECIAL REQUIREMENT: Must possess a Reactor Operator's license issued by the U.S. Nuclear Regulatory Commission at the RINSC research reactor at the time of issuance of a certificate of permanent status by the R.I. Office of Personnel Administration and must maintain such licensure as a condition of employment.

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