

CLASS TITLE:

**REACTOR OPERATOR
(ENGINEERING SPECIALTY)**

Class Code: 02799202

Pay Grade: 24A

EO: C

CLASS DEFINITION:

GENERAL STATEMENT OF DUTIES: To be responsible for the effective operation and maintenance of engineering functions and operations of the Rhode Island Nuclear Science Center; to serve as a duty technician in the reactor facility, when so assigned, with responsibility for a variety of duties connected with the start-up, operation, and shut-down of the reactor; and to do related work as required.

SUPERVISION RECEIVED: Works under the general, and at times close, supervision of a licensed reactor operator superior from whom are received general and specific instructions; work is reviewed in process and upon completion for compliance with such instructions and for the execution of duties as a reactor operator in a 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 be responsible for the effective operation and maintenance of engineering functions and operations of the Rhode Island Nuclear Science Center.

To service and operate the water treatment plants, underground retention tanks, building crane, heat exchangers, cooling towers, pumps, blowers, filter systems, building ventilation and air conditioning systems, electrical systems, beam ports, and other utilities at the facility.

To set up experiments at the beam ports of the reactor or other experimental facilities.

To assist transient scientists in setting up experiments around the main shield and in the pool.

To serve as a duty technician in the reactor facility, when so assigned, with responsibility for a variety of duties connected with the start-up, operation, and shut-down of reactor; to operate the reactor at predetermined power levels and take and record data on reactor operations; to be responsible for maintaining constant vigilance to insure that predetermined power levels are not exceeded; to note and report all deviations from the norm to the supervisor in charge; to take immediate steps to scram or shutdown the reactor should an untoward incident occur or should the reactor fail to respond to the controls.

To do related work as required.

REQUIRED QUALIFICATIONS FOR APPOINTMENT:

KNOWLEDGES, SKILLS AND CAPACITIES: A thorough knowledge of the engineering functions and operations of the Rhode Island Nuclear Science Center and the ability to apply the required knowledge and techniques to such functions and operations and to research experiments; a working knowledge of, and the ability to apply, elementary reactor physics and nuclear engineering; a working knowledge of the principles, practices, methods and techniques required for the operation of the Rhode Island Nuclear Science Center Reactor and the ability to apply such knowledge, principles, practices, methods and techniques; the ability to make immediate decisions and to take 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 facility such as the Rhode Island Nuclear Science Center, or elsewhere, which will permit the United States Atomic Energy 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 (engineering specialty) in a facility such as the Rhode Island Nuclear Science Center; or, full-time employment as a reactor operator in another similar facility which has involved some experience in the said electronics specialty.

SPECIAL REQUIREMENT: Must possess a Reactor Operator's license issued by the U.S. Atomic Energy Commission for the Rhode Island Nuclear Science Center Reactor at the Time of the issuance of a certificate of permanent status by the Rhode Island State Division of Personnel Administration and must maintain such licensure as a condition of employment.

Class Revised: December 22, 1985

Editorial Review: 3/15/03