

**CLASS TITLE: SENIOR REACTOR OPERATOR  
(ENGINEERING SPECIALTY)**

**Class Code: 02799302  
Pay Grade: 26A  
EO: C**

**CLASS DEFINITION:**

**GENERAL STATEMENT OF DUTIES:** To be responsible for performing complex engineering functions and operations for the nuclear science center; to serve as an operator of the reactor; and to do related work as required.

**SUPERVISION RECEIVED:** Works under the general supervision of a superior from whom are received general and specific instructions; work is reviewed upon completion to insure compliance with approved methods and procedures.

**SUPERVISION EXERCISED:** Usually none, but may supervise subordinates assigned to assist.

**ILLUSTRATIVE EXAMPLES OF WORK PERFORMED:**

To be responsible for performing complex engineering functions and operations for the nuclear science center.

To construct, repair and operate such systems as water treatment, air conditioning, heat exchangers, pumps, blowers, filters and electrical systems presenting complex engineering problems.

To set up experiments at the various experimental facilities at the reactor and to advise transient scientists of the engineering aspects of the reactor.

To recommend various materials, parts and designs to improve, repair and expand various systems presenting problems of an engineering nature.

To serve as an operator of the reactor.

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

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

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

To do related work as required.

**REQUIRED QUALIFICATIONS FOR APPOINTMENT:**

**KNOWLEDGES, SKILLS AND CAPACITIES:** 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; a working knowledge of the principles, practices methods and techniques necessary for the construction, repair and operations of systems and functions presenting problems of a complex engineering nature and the ability to apply such knowledge; a working knowledge of, and the ability to apply, elementary reactor physics and nuclear engineering; the ability to set up experiments in the reactor; 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 facility which will provide engineering knowledge and permit the United

States Nuclear Regulatory Commission to issue a reactor operators 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 licensed reactor operator working in an engineering specialty at a complex level.

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

**SPECIAL REQUIREMENT**: Within six months, must possess a reactor operator's license issued by the U.S. Nuclear Regulatory Commission for operation of the R.I. Reactor and must maintain such licensure as a condition of employment.

Class Revised: December 22, 1985

Editorial Review: 4/27/10