

CLASS TITLE: SENIOR REACTOR (ELECTRONIC SPECIALTY)

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

CLASS DEFINITION:

GENERAL STATEMENT OF DUTIES: To be responsible for performing complex electronics maintenance and design functions 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 electronics maintenance and design functions for the nuclear science center.

To design, construct and repair a variety of complex electronic systems including circuits to interface one system to another, computers to sample changers, multi-channel analyzers to printers, and reactor control circuits into existing systems.

To design and construct intrusion and surveillance systems, pneumatic tube control systems and sample changers.

To recommend various electronics materials and parts needed to improve repair and expand existing systems.

To serve as an operator of the reactor.

To perform all routine procedures necessary during the start-up operation and shutdown 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 design, construction and repair of various complex electronic systems in this reactor facility 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 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 electronics knowledge and 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 licensed reactor operator working on complex electronic systems.

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: 3/15/03