

CLASS TITLE:

**REACTOR SUPERVISOR
NUCLEAR SCIENCE CENTER**

Class Code: 02799500

Pay Grade: 32A

EO: C

CLASS DEFINITION:

GENERAL STATEMENT OF DUTIES: To supervise all phases of nuclear reactor operations to ensure safe and efficient operation; to be responsible for the proper operation, maintenance, calibration and replacement of all electronic equipment in the reactor facility; and to do related work as required.

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

SUPERVISION EXERCISED: Supervises the work of all personnel performing operations and maintenance functions to the reactor.

ILLUSTRATIVE EXAMPLES OF WORK PERFORMED:

To supervise all phases of nuclear reactor operations to ensure safe and efficient operation in compliance with all aspects of the U.S. Nuclear Regulatory Commission requirements and the provisions of the Final Safety Analysis Report, the Reactor Technical Specifications and all other documents constituting the reactor license and other supporting licenses.

To be responsible for the proper operation, maintenance, calibration and replacement of all electronic equipment in the reactor facility.

To supervise the maintenance of a record system on reactor operations as required by Facility License R-95 as well as other in-house records and reports.

To insure that all incidents are properly recorded for evaluation of causes and remedies; to notify proper authorities of any incident.

To recommend proposed changes to the reactor, the reactor equipment and facilities and of procedures to be utilized; to ensure that all changes in the reactor or instruments are properly reflected by changes in the reactor drawings, descriptions and procedures; to develop new procedures as required to reflect changes in equipment or to prevent recurrence of equipment failures or operation errors by personnel.

To assist in conduct of training programs for new reactor operators; to qualify reactor users.

To ensure that safety devices and systems are checked according to written procedure at prescribed intervals.

To prepare special shutdown/maintenance procedures for electronic systems including the non-routine operations to be performed during each major shutdown.

To study the operations and the equipment for possible hazards and to take appropriate action.

To assist experimenters in designing the electronic portion of experiments.

To prepare reports of any incident or condition relating to the operation of the reactor which prevented or could have prevented a nuclear system from performing its safety function as outlined in the Technical Specifications; any substantial variance disclosed by operation of the reactor from performance specifications contained in the Safety Analysis Report or the Technical Specifications.

To investigate all unusual incidents to determine whether such incidents were due to poor equipment, faulty maintenance, or operation errors by personnel and to recommend appropriate action.

To assist in teaching to nuclear engineering students reactor/related laboratories.

As required, to operate the reactor.

To maintain the electronic equipment in the facility's radiation counting laboratories, including a mini computer, multi-channel analyzer and nuclear detectors and electronics.

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 reactor and the ability to apply such knowledge, principles, practices, methods and techniques; a thorough knowledge of federal and state regulations regarding the operation of a reactor; a thorough knowledge of electronics; a working knowledge of, and the ability to apply, reactor physics and nuclear engineering; the ability to plan, schedule, review and participate in the work of a reactor operations staff; 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 college of recognized standing with a Bachelor's Degree in Engineering or Physics; and

Experience: Such as may have been gained through: full-time employment as a Senior Reactor Operator at the Rhode Island Nuclear Science Center; or full-time employment as a supervising reactor operator in another facility which has involved extensive experience in an operations specialty.

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

SPECIAL REQUIREMENT: Within six months from the state of appointment, must possess a senior reactor operator's license issued by the United States Nuclear Regulatory Commission for operation of the Rhode Island Reactor and must maintain such licensure as a condition of employment.

Class Revised December 22, 1985

Editorial Review: 3/15/03