

ATTACHMENT F

OPERATOR TRAINING AND CERTIFICATION PROGRAM MORRIS OPERATION

INTRODUCTION

In accordance with requirements of Part 72.92, Title 10, Code of Federal Regulations (10CFR72.92), this attachment contains a description of the program for the training and certification of Operations Technicians and Operations Supervisors at General Electric's Morris Operation, an independent spent fuel storage installation (ISFSI) near Morris, Illinois. The program description includes identification of the training methods employed, the topics covered, the personnel included, the means of implementation and the means of documentation.

APPLICABILITY

This program provides for the training and certification of all operation personnel who may be required to perform safety-related activities, including:

- o Operations Technicians
- o Operations Supervisors
- o Operations Supervisor relief personnel

These personnel are referred to by use of the term, "operator" in the following text.

PHYSICAL REQUIREMENTS

As a prerequisite to acceptance in the training program and for recertification a candidate must successfully pass a medical examination designed to assure that the candidate is in generally good health and is otherwise physically qualified to safely perform assigned work. Minor correctable health deficiencies - - such as eyesight or hearing - - will not per se prevent certification.

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TRAINING PROGRAM

The training program uses classroom instruction with frequent quizzes to fortify learning and identify areas of weakness. Classroom activity is augmented by on-the-job training and proficiency testing to assess the operator's knowledge and practical skills.

Subject Matter and Classroom Instruction

Training subject matter includes:

- a. Radiation and industrial safety
- b. Equipment design, operating characteristics, instrumentation and control
- c. Management systems and procedures

The objective of radiation and industrial safety training is to provide the trainee with the knowledge required to carry out job assignments safely, and to recognize potential safety hazards. Radiation safety training includes the theory of radioactive emissions and the control of radiation exposure, including the use of radiation detection and monitoring equipment, step-off procedures, protective clothing, and respiratory protection needs and equipment. Training in radiation safety emphasizes principles and practices that contribute to reducing exposures to as low as reasonably achievable (ALARA). Industrial safety training includes safety practices and Emergency Brigade activities and procedures. The application of safety principles to on-the-job conditions and situations is emphasized.

Training in equipment design, operating characteristics, instrumentation and control includes equipment and systems encountered in rask and fuel handling, fuel storage, and auxiliary systems such as basin water cleanup and cooling. Special emphasis is placed on handling and processing low-activity wastes to assure safety of operations and to minimize waste accumulation. The functions and use of controls and instrumentation associated with the various systems and equipment are carefully integrated in training, with emphasis on normal and abnormal indications. Particular attention is given to activities important to safety; such activities may be conducted only by certified personnel, or by non-certified personnel only when under the observation of duly certified personnel.

Training in management systems and procedures is designed to provide an understanding of the administrative controls, approval requirements, communication lines, instructions and practices to be used by operators in carrying out their assigned duties. Topics in this area of training include use of Standard Operating Procedures; implementation of Compliance Tests (Technical Specifications); operator duties related to security, safeguards, and quality assurance; and discussion of documents such as the Safety Manual, emergency plans, and others described in the CSAR Chapter 9 and the Technical Specifications.

Classroom instruction relies heavily on audio-visual instructional equipment, including video tapes of actual operations. Radiation survey and monitoring instruments and other equipment are used in the classroom as instructional aids.

On-The-Job Training

On-the-job training (OJT) will normally include review of operating conditions and procedures for a given activity, and observation of the activity as conducted by certified personnel. As the operator progresses, hands-on experience will be gained under the direct visual supervision of certified personnel. Where hands-on operation is not possible, "walk-through" discussions of systems and equipment studied in the classroom are conducted. On-the-job training includes all aspects of normal operation, as well as simulated off-normal situations.

Proficiency Testing

Proficiency testing is used to verify that the operator is capable of safe and proper performance in operating plant equipment and systems. Proficiency testing includes the following elements:

- a. Written examination
- b. Oral (walk-through) examination
- c. Provisions for retesting after additional training
- d. Job performance statement

Comprehensive written examinations are taken by operators, followed by walk-through examinations where applicable. The written examination covers the

training subjects to a degree of detail sufficient to provide reasonable assurance of competent operation. Where applicable, walk-through examination includes not only detailed questions, but actual demonstration of operation of equipment and systems when practical. Both normal and off-normal operation knowledge is tested. Passing grades must be attained on all written examinations for certification eligibility.

When written testing or the walk-through examination indicates the need for further training, retraining in the indicated subject matter is conducted on an intensive basis. Retesting is then performed and must be passed prior to certification. The job performance statement tabulates job activities performed by an operator, and indicates specific activity or skill areas where retraining is indicated.

Facility Changes

In the course of operation of an Independent Spent Fuel Storage Installation, equipment and operational changes may occur. In order to maintain knowledgeable operators, such changes will be introduced into training materials. The training materials will be reviewed and revised when required to reflect such changes as part of the biennial training and recertification process. Also, when such changes in equipment operation or other operational aspects are implemented, the Standard Operating Procedures (SOP's) are updated and certified personnel are alerted to such SOP changes.

CERTIFICATION

After successful completion of training and proficiency testing, Operator Certification is granted. Normally, a new employee will undergo the Operator Training and Certification Program and be certified within a year. After initial certification, personnel must be retrained, retested and recertified every two years.

Completion of the Operator Training and Certification Program means that a certified operator is fully authorized to carry out assigned responsibilities.

Management personnel who supervise the certified operators also must be certified.

PROGRAM RESPONSIBILITIES

The Manager, Plant Operations is delegated by the Manager, Morris Operation, authority for administration, implementation, and maintenance of the Operator Training and Certification Program. The Manager, Morris Operation may designate other individuals to assume a role in the implementation of the Program, particularly in the area of testing and determination of an individual's preparedness for certification.

The classroom and on-the-job training is administered by supervisors, engineers or training staff members who are referred to as "training officers". Such training officers are certified personnel who have sufficient experience, education, and training to carry out these duties. Preparation for the Training Officers may include their training by other instructors or by non-certified plant personnel in their areas of expertise.

The Manager, Morris Operation will designate the certifying officer(s). The qualifications of the certifying officer include a thorough knowledge of the facility, especially the equipment operation facets. A technical degree or equivalent technical experience is a requirement. Five years of industrial experience with three years in the nuclear field is considered minimal for a certifying officer.

PROGRAM DOCUMENTATION

Records are to be maintained for certified (or recertified) operators for a minimum of five years. Such records include documentation on training subjects, information on physical requirements, job performance statements, copies of written examinations, information pertaining to walk-through exams, retesting particulars, and a listing of certified (or recertified) operators.