



FORT ST. VRAIN NUCLEAR GENERATING STATION
PUBLIC SERVICE COMPANY OF COLORADO

TITLE: TRAINING PROCEDURE - SPECIAL SENIOR LICENSED
OPERATOR (Fuel Handler)

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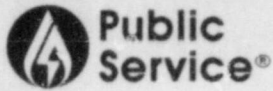


TABLE OF CONTENTS

	<u>Page</u>
1.0 PURPOSE	3
2.0 APPLICABILITY	3
3.0 GENERAL REQUIREMENTS.	3
3.1 RESPONSIBILITIES.	3
3.2 REQUIREMENTS FOR SSLO INITIAL QUALIFICATION	4
3.3 REQUIREMENTS FOR SSLO QUALIFICATION	4
3.4 INSTRUCTOR QUALIFICATIONS	5
3.5 WAIVER REQUIREMENTS	5
4.0 PROCEDURE	6
4.1 SSLO INITIAL QUALIFICATION PROGRAM	6
4.2 SSLO REQUALIFICATION PROGRAM	12
4.3 EVALUATION	15
4.4 DOCUMENTATION	22
5.0 REFERENCES	23
6.0 ATTACHMENTS	23
7.0 COMMITMENTS	24

1.0 PURPOSE

To provide guidelines for the initial qualification training and requalification of Special Senior Licensed Operators (SSLO) at Ft St. Vrain. This program is designed to meet the requirements of 10 CFR Parts 50 and 55, and NUREG 1021.

2.0 APPLICABILITY

This training program applies to all Special Senior Licensed Operator candidates and to all Special Senior Licensed Operators.

3.0 GENERAL REQUIREMENTS

3.1 RESPONSIBILITIES

- 3.1.1 The Technical Training Supervisor is responsible for the supervision and administration of the SSLO program and SSLO Requalification program.
- 3.1.2 Training instructors as designated by the Technical Training Supervisor in accordance with TMP 1.4 shall be responsible for implementation, coordination, and documentation of the SSLO program and SSLO Requalification program.
- 3.1.3 The Reactor Maintenance Supervisor of the trainee shall allocate sufficient time for completion of the training.
- 3.1.4 The trainee is responsible for the completion of assigned course/test material in the allotted time interval.

3.2 REQUIREMENTS FOR SSLO INITIAL QUALIFICATION

3.2.1 Experience

3.2.1.1. There are no experience requirements for the SSLO initial qualification program.

3.2.2 Education

3.2.2.1 There are no education requirements for the SSLO initial qualification program.

3.2.3 Training

3.2.3.1 Candidates must be in the 7th six month period of the PSCo Mechanical Maintenance Apprenticeship Program and/or currently enrolled in the FSV Mechanical Maintenance Training program as a millwright.

3.3 REQUIREMENTS FOR SSLO REQUALIFICATION

3.3.1 Experience

3.3.1.1. There are no experience requirements for the SSLO Requalification program.

3.3.2 Education

3.3.2.1 There are no education requirements for the SSLO Requalification Program.

3.3.3. Training

3.3.3.1 Personnel must have satisfactorily completed the requirements of the SSLO Initial Qualification Program and currently hold an NRC Special Senior Licensed Operator license limited to fuel handling.

3.4 INSTRUCTOR QUALIFICATIONS

- 3.4.1 Instructors designated by the Technical Training Supervisor to teach the SSLO Initial Qualification Program or SSLO Requalification program shall possess:
- a. A current NRC Special Senior Licensed Operator license, or;
 - b. A current NRC Senior Reactor Operator license, or;
 - c. A current NRC Instructor certification, or;
 - d. Sufficient subject matter expertise for a particular subject or topic.
- 3.4.2 Designated instructors shall meet the instructional skills qualifications defined in TP-TI, Training Procedure - Training Instructor.
- 3.4.3. Designated instructors shall be deemed qualified to write and administer oral and written examinations.
- 3.4.4 SSLO Licensed instructors shall maintain practical proficiency through participation in fuel deck activities. This shall consist of a minimum of eight hours per month.

3.5 WAIVER REQUIREMENTS

- 3.5.1 Licensed instructors may be excused from those lectures, quizzes, and examinations and tasks which they have prepared, reviewed, presented or graded.
- 3.5.2 Individuals who review written and/or oral examinations are excused from taking said examinations.
- 3.5.3 There are no waivers for trainees.

4.0 PROCEDURE

4.1 SSLO INITIAL QUALIFICATION PROGRAM

4.1.1 Course Description

4.1.1.1 The SSLO Initial Qualification program shall consist of the following categories:

- M) Reactor and Fuel Characteristics - category weight is $20 \pm 5\%$
- N) Equipment, Instrumentation and Design Description - category weight is $20 \pm 5\%$
- O) Procedures and Limitations - category weight is $30 \pm 5\%$
- P) Emergency Systems and Safety Devices - category weight is $15 \pm 5\%$
- Q) Health Physics and Radiation Protection - category weight is $15 \pm 5\%$

4.1.1.2 The SSLO Initial Qualification Program shall include operational training including actual and/or simulated control manipulations of the Fuel Handling Machine (FHM), Auxiliary Transfer Cask (ATC), Reactor Isolation Valve (RIV), and other fuel handling equipment as identified as relating directly to the analyzed duties of Special Senior Licensed Operators. These manipulations will include operator responses, instrumentation, indications, abnormal situations, corrective measures, alarms and annunciators, prerequisites and procedures. Actual manipulations and operations shall be preferred to simulations to the extent practicable based upon equipment availability.

4.1.2 Length of Course

The SSLO Initial Qualification program shall be a minimum of 18 weeks in duration, and will consist of the following sections:

1. Classroom/Laboratory Training
2. Task performance/On-the-job training (OJT)
3. Final review

4.1.2.1 Classroom/laboratory section shall be a minimum of 14 weeks in duration. Classes will normally consist of four (4) to six (6) hours of formal lectures with the remainder of the day devoted to plant tours or self study. (Trainees may be required to utilize own time to study).

4.1.2.2 The Task performance/On-the-job training section shall be a minimum of 2 weeks training on the fuel deck as an extra person on shift in the capacity of a Special Senior Licensed Operator and under the direct supervision of the SSLO assigned to the Fuel Deck for that shift (or the Reactor Maintenance Supervisor). During this phase, the SSLO candidates shall be considered assigned to training. Non-fuel Deck duties shall not be credited toward SSLO Initial Training.

4.1.2.3 The final review section shall be a minimum of 2 weeks in duration. Formal lectures, self-study, or plant tours shall be administered as assigned by the Technical Training Supervisor as needed.

4.1.3 Program Content

The SSLO Initial Qualification program shall consist of, but not be limited to the following:

4.1.3.1 Classroom/Laboratory

- M) Reactor and Fuel Characteristics

Note: Scope of kinetics is limited to reactor shutdown conditions.

- 1) Elementary nuclear theory and reactor behavior (will not include Xenon poisoning of the Reactor)
 - 2) A general understanding of:
 - Shutdown margin
 - Subcritical multiplication
 - Retracted or "cocked" rods
 - 3) The nuclear effects of any actions which SSLO's perform, including adding or removing fuel
 - 4) Fuel storage configuration
 - 5) HTGR Physics
- N) Equipment, Instrumentation and Design Description

7.1 Primary and Secondary Seals

- 1) Features of facility design, including:
 - Fuel handling tools
 - Reactor building crane and other hoists
 - Mechanical and electrical interlocks (fuel handling equipment)
 - Fuel containers
 - Reactor core internals
 - Spent fuel shipping cask
 - Control rod drives
 - Fuel element design, types and indentifications

Reflector element types and
identification

Fuel inspection and receiving

2) Neutron sources arrangement

3) Details of:

Fuel transfer mechanism

Reactor isolation valves

Fuel storage racks

4) Instrumentation including:

Aspects of fuel handling
supervisor (SSLO) involvement in
response to alarms/indications

High radiation alarms and
interlocks

FHM alarms and operator actions
for alarms

Meaning of, and clearing of, fuel
handling trips

Startup channel/ 10^5 scram

0) Procedures and Limitations:

Note: Scope is limited to strictly fuel
handling equipment and situations.

1) Administrative limits upon SSLO
actions.

2) Approvals required and chain of
command.

- 3) Number of persons required for any particular fuel handling operation and their associated duties.
- 4) Technical specifications and their bases.
- 5) Description of events and sequence of fuel handling operations.
- 6) Identified applicable procedures and regulations.
 - a) Normal
 - b) Abnormal
 - c) Emergency
 - d) Title 10 CFR Chapter 1
- 7) Specifically excluded are Site Security procedures.

P) Emergency Systems and Safety Devices:

7.1 Primary and Secondary Secondary
Seals

- 1) Control interlocks of FHM, ATC, RIV
- 2) Paging and communication equipment
- 3) Fuel Storage:
Fixed geometry
Configuration
Limits and requirements
- 4) Fuel handling equipment auxiliary systems and their interfaces with fuel handling equipment.
- 5) Possibility of and consequences of accidental release from FHM or ATC.

Q) Health Physics and Radiation Protection

*** 7.1 *** Primary and Secondary Seals
Radiological ConsiderationsNOTE: Limited to areas specifically
applicable to SSLO duties

- 1) Portable equipment
- 2) Radiation hazards associated with
fuel handling operations
- 3) Spent fuel fission product
releases
- 4) Proper contamination control and
limits
- 5) Radiation Work Permit:

Procedures

Use

Areas Controlled

Protective measures
- 6) Personnel exposure limits

4.1.3.2 Task Performance/On-the-Job Training

* Those manipulations marked with an * (asterisk) are identified as required performances. However, waiver for any required performance may be granted due to equipment unavailability or substantial trainee fuel handling related experience. Waivers will be determined by the agreement of the Reactor Maintenance Supervisor and the Technical Training Supervisor.

a) Fuel Handling Manipulations such as:

- *Operate FHM
- *Operate ATC
- *Set RIV
- *Operate RIV
- Miscellaneous Fuel Deck tasks

- b) Reactivity manipulations such as:
 - Control Rod Drive Movement
 - Reserve Shutdown Material Removal
 - New Fuel Inspection
 - Burnable Poison Loading
 - Neutron Source Loading

- c) Facility and/or Procedure changes will be presented at least quarterly, through:
 - (1) The Operating Information Assessment Group (OIAG) as outlined in Administrative Procedure G-7; FSV Project Personnel Training and Qualification Programs.

 - (2) Fuel Handler Seminars shall be utilized during the classroom/laboratory portion to review LER's, OIAG material, and any significant information to that each SSLO (Fuel Handler) is cognizant of facility design changes, procedure changes, and facility license changes.

 - (3) On shift review - in order to ensure that any procedural changes, Technical Specifications changes, plant modifications, and LER's which take place during those months when Fuel Handler seminars are not held, on-shift review of the material may be held.

4.2 SSLO REQUALIFICATION PROGRAM

4.2.1 Course Description

The SSLO Requalification program shall consist of the same categories and material as identified in sections 4.1.1 and 4.1.3 of the SSLO initial Qualification Program.

4.2.2 Length of Course

The SSLO Requalification program shall be presented at least annually, be a minimum of 80 hours in duration, and consist of:

- 1) Classroom/Laboratory Training
- 2) Task Performance/On-the-Job Training (OJT)
- 3) Final Review

4.2.2.1 The classroom/Laboratory portion shall be a minimum of 40 hours in duration. Classes will normally consist of four (4) to six (6) hours of formal lectures with the remainder of the day devoted to plant tours or self-study. (Personnel may be required to utilize own time to study.)

4.2.2.2 The Task Performance/On-the-Job training shall be a minimum of 24 hours training on the Fuel Deck for OJT review of SSLO duties and responsibilities. During this section of the training, SSLO's shall be considered assigned to training. Non-Fuel Deck duties shall not be credited toward SSLO Requalification Training.

4.2.2.3 The Final Review Section shall be a minimum of 16 hours of individual review and preparation for the PSCO training department or NRC administered requalification examinations.

4.2.3 Program Content

- a) The SSLO Requalification Program shall include, but not be limited to, the following:
- a) Selected lessons from the SSLO Initial Qualification program pertaining to difficult or infrequently performed tasks.
 - b) Topics considered to be problem performance areas, including those indicated by evaluation of the previous annual requalification exam.
 - c) Training covering new equipment, procedures and/or design modifications.
 - d) Training in response to industry and in-house experience, e.g. I&E, LER, and SOER.
 - e) Special projects that support or extend knowledge developed in the initial training program.
 - f) Off-site training courses or seminars of appropriate topics, as approved by the Reactor Maintenance Supervisor, that will extend or reinforce the trainee's technical background.

The content of the SSLO Requalification Program shall be established in January of each year and revised as necessary to answer immediate training needs. This shall be the responsibility of the designated Training Instructor and be approved by the Reactor Maintenance Supervisor. The approved content is to be documented on TP-SSLO Attachment 2; SSLO Requalification Curriculum.

4.3 EVALUATION

4.3.1 Successful completion of the academic portion(s) of the SSLO Initial Qualification and Requalification Program is based on obtaining a score of $\geq 80\%$ on all applicable examinations. For scores $< 80\%$ the designated Training Instructor shall assign the trainee remedial training prior to retaking the examination. Upon a second failure, appropriate remedial actions will be taken based upon the SSLO Review Panel recommendations as outlined in section 4.3.5.

4.3.2 Successful completion of the task portion(s) of the SSLO Initial Qualification and Requalification is based on satisfactory performance on all applicable Job Performance Measures (JPMs). For unsatisfactory JPMs, the designated Training Instructor shall assign the trainee remedial training prior to retaking the JPM. Upon a second failure, appropriate remedial actions will be taken based upon the SSLO Review Panel recommendations as outlined in section 4.3.5.

The required Job Performance Measures are those identified with an asterisk (*) in section 4.1.3.2 a).

4.3.3 Initial Qualification Evaluation

4.3.3.1 Eligibility to take simulated NRC SSLO Examinations

a) Successful completion of the above requirements 4.3.1, and 4.3.2 are the prerequisites for eligibility to take the simulated NRC SSLO oral and written license examinations.

b) Eligibility is documented on TP-SSLO, Attachment 4; Requirements for Classified Mechanic - Fuel Handler.

4.3.3.2 Performance on simulated NRC SSLO oral and written license examinations.

- a) The simulated NRC oral examination shall be administered by the Reactor Maintenance Supervisor or a licensed designee and a SSLO Instructor.
- b) Satisfactory performance on the simulated NRC oral examination is based upon an overall satisfactory rating on TP-SSLO, Attachment 5; Fuel Handler Oral Examination Report.
- c) Satisfactory performance on the simulated NRC written examination is based upon an overall score of $\geq 80\%$ and scores of $\geq 70\%$ on all categories.
- d) Unsatisfactory performance of an individual on simulated NRC oral or simulated NRC written examination will require the following remedial actions:
 - The individual shall be scheduled and assigned to an intensive accelerated review of any deficient area(s).
 - A retake of the applicable simulated NRC examination(s) shall be scheduled by the Technical Training Supervisor.
- e) Upon failure of the second attempt at a simulated NRC examination, the individual's performance shall be reviewed by the SSLO Review Panel to determine eligibility to retake a simulated NRC examination, and remedial actions. Review Panel evaluation (if necessary) is documented on TP-SSLO Attachment 1; SSLO Review Panel Evaluation.

- f. Successful completion of the simulated NRC SSLO oral and written examinations and recommendation for taking the actual NRC examinations is documented on TP-SSLO, Attachment 4; Requirements for Classified Mechanic - Fuel Handler.

4.3.3.3 Performance on actual NRC SSLO oral and written license examinations.

- a) Satisfactory performance on the actual NRC written and oral examinations is based upon the requirements of 10 CFR Parts 50, 55 and NUREG 1021.
- b) Upon unsatisfactory performance of an individual on the actual NRC SSLO oral and/or written examination the SSLO Review Panel shall determine eligibility to retake a NRC examination. Upon determination of continued eligibility:
 - The individual shall be scheduled and assigned to an intensive accelerated review of any deficient area(s).
 - A retake of the applicable NRC examination(s) shall be scheduled by the Technical Training Supervisor.
- c) Upon determination of ineligibility or upon failure of the second attempt at the applicable examination, the individual will be deemed to have failed the SSLO Initial Qualification Program, and thus will be denied application for a NRC SSLO License.
- d) Review Panel evaluation is documented on TP-SSLO Attachment 1; SSLO Review Panel Evaluation

- e) Successful completion of the NRC SSLO examinations is documented on TP-SSLO Attachment 4; Requirements for Classified Mechanic - Fuel Handler.

4.3.4 Requalification Evaluation

4.3.4.1 Required Fuel Handling Manipulation:

Prior to a refueling, each SSLO shall manipulate the controls of the Fuel Handling Machine during the movement of new fuel into storage. Requirement may be satisfied by the previous refueling, however, due to variable schedule dates for refueling. This requirement may be waived, if necessary, considering recent operation of the FHM.

4.3.4.2 Eligibility to take the SSLO Requalification Examination

- a) Successful completion of requirements 4.3.1 and 4.3.2 is a prerequisite for eligibility to take the annual SSLO requalification examination.

4.3.4.3 SSLO Review Panel Evaluation of the SSLO Requalification Examination:

- a) The SSLO Review Panel as outlined in Section 4.3.5 will evaluate the content of the annual SSLO requalification examination.
- b) Upon approval of corrected examination, the examination is ready for issuance.
- c) Review Panel Evaluation of Requalification Examination is documented on TP-SSLO Attachment 3; Review Panel Evaluation of SSLO Examination.

4.3.4.4 Performance on Annual SSLO
Requalification Examination.

- a) Satisfactory performance on the written examination is based upon an overall score of $\geq 80\%$ and scores of $\geq 70\%$ on all categories.
- b) The SSLO Review Panel as outlined in section 4.3.5 will review the results of the examinations to ensure satisfactory completion.
- c) Satisfactory performance is documented on TP-SSLO Attachment 6; Fuel Handler Requalification Summary and TP-SSLO Attachment 1; SSLO Review Panel Evaluation.
- d) Unsatisfactory performance of an individual on a Job Performance Measure shall require readministration of the lesson and evaluation by the designated instructor resulting in satisfactory performance by the individual.
- e) In the event of failure or failure to complete of an annual requalification examination, the individual will be removed from licensed duties.
- f) The SSLO Review Panel as outlined in Section 4.3.5 will evaluate individuals who fail the annual written examination to determine eligibility to retake such examination and recommend accelerated review.
- g) An SSLO receiving a grade of less than 70% in any requalification examination category or an overall grade of less than 80% shall be placed in an accelerated review program.

At the completion of the accelerated review program, the SSLO shall undergo an oral examination administered by a member of the training staff appointed by the Technical Training Supervisor. The Technical Training Supervisor shall notify the Superintendent of Training of the oral examination results and provide a recommendation to the SSLO Review Panel regarding licensed individual's removal from licensed duties, or successful completion of the oral examination.

Upon completion of this review, the individual will be administered a written examination.

- h) In the event of failure of the second examination, the SSLO Review Panel will determine eligibility for a third attempt, based upon a review of the individual's performance to date on the job and on past requalification.
- i) Determination of ineligibility or failure of the third attempt shall be cause for deactivation of the individual's SSLO license.
- j) Review panel evaluation is documented on TP-SSLO Attachment 1; SSLO Review Panel Evaluation.

4.3.4.5 Absence From Training/Duties

- (a) Absence from any training session will require the trainee to makeup the session in a manner determined by the designated Training Instructor to allow the trainee to obtain the required information.

- (b) In the event any individual does not perform SSLO job duties for a period of greater than 120 days, the individual shall demonstrate satisfactory knowledge and understanding of facility operation and administration.

4.3.5 SSLO Review Panel

4.3.5.1 Membership

- a) The SSLO Review Panel shall consist of the Technical Training Supervisor, Superintendent of Training, Reactor Maintenance Supervisor, Superintendent of Maintenance, and Station Manager.

4.3.5.2 Duties

- a) The SSLO Review Panel will evaluate any SSLO or SSLO; Initial license candidate who demonstrates unsatisfactory performance on a simulated or actual NRC SSLO license examination, Requalification examination, or second attempt failure on an academic lesson or JPM.

Eligibility to continue in the program will be determined, and approval to enter an accelerated study program may be granted.

The SSLO Review Panel may conduct personal interviews with the individual if this would be useful in reaching a decision regarding the course of action to be recommended. Interviews may be helpful in assessing an individual's attitude and identifying intangible factors that may not be apparent from examinations or performance evaluations.

Interviews are scheduled on an as-needed basis by the SSLO Review Panel. Records of interview findings will be retained in the appropriate training file.

- b) The SSLO Review Panel shall review the annual requalification examination for content and applicability, and authorize issuance of the examination. This is documented on TP-SSLO Attachment 3; Review Panel Evaluation of SSLO Examination.
- c) The SSLO Review Panel shall review the results of individual requalification examinations to ensure satisfactory completion. This is documented on TP-SSLO Attachment 1; SSLO Review Panel Evaluation.

4.4 DOCUMENTATION

- 4.4.1 Training records will be maintained in accordance with TMP 1.2.
- 4.4.2 Performance on SSLO oral examination is documented on TP-SSLO Attachment 5; Fuel Handler Oral Examination Report.
- 4.4.3 Successful completion of SSLO Initial Qualification Training shall be documented on TP-SSLO Attachment 4; Requirements for Classified Mechanic - Fuel Handler.
- 4.4.4 The required fuel handling manipulation for requalification is documented on TP-SSLO Attachment 6; Fuel Handler Requalification Summary.
- 4.4.5 Satisfactory performance on SSLO Requalification examination is documented on TP-SSLO Attachment 6; Fuel Handler Requalification Summary.
- 4.4.6 SSLO Review Panel evaluation of unsatisfactory performance on a simulated or actual NRC SSLO examination is documented on TP-SSLO Attachment 1; SSLO Review Panel Evaluation.

- 4.4.7 SSLO Review Panel evaluation of the SSLO Requalification examination is documented on TP-SSLO Attachment 3; Review Panel Evaluation of SSLO Examination.
- 4.4.8 Training attendance for approved lesson plans will be documented utilizing Training Department Form D-1.
- 4.4.9 Successful completion of courses and appropriate portions thereof shall be documented to the Reactor Maintenance Supervisor by PPC memo.

5.0 REFERENCES

- 5.1 GPG-05, Rev. 0, Guidelines for Mechanical Maintenance Personnel Qualification - INPO
- 5.2 Training Mangement Procedures (TMP)
- 5.3 Training Procedure - Training Instructor (TP-TI)
- 5.4 10 CFR Part 50
- 5.5 10 CFR Part 55
- 5.6 NUREG 1021
- 5.7 Administrative Procedure G-7; FSV Project Personnel Training and Qualification Programs
- 5.8 INPO 85-018; Guidelines for Training and Qualification of Maintenance Personnel

6.0 ATTACHMENTS

- 6.1 Attachment 1; SSLO Review Panel Evaluation
- 6.2 Attachment 2; SSLO Requalification Curriculum
- 6.3 Attachment 3; Review Panel Evaluation of SSLO Examination
- 6.4 Attachment 4; Requirements for Classified Mechanic - Fuel Handler
- 6.5 Attachment 5; Fuel Handler Oral Examination Report
- 6.6 Attachment 6; Fuel Handler Requalification Summary

7.0 COMMITMENTS

The step(s) and section(s) listed below may not be deleted without issuance of comparable controls. The procedure itself, if initiated as a result of commitment corrective action, may not be deleted without issuance of comparable controls.

- 7.1 Material contained in Section 4.1.3 is the result of PCL 207 (SOER 85-1) concerning Primary and Secondary Seals, including radiological conditions.



SSLO REVIEW PANEL EVALUATION

NAME: _____ Date: _____

Purpose of Review: _____

Comments/Recommendations: _____

Review Panel Members:
(or designates)

Technical Training Supervisor

Superintendent of Training

Reactor Maintenance Supervisor
(Initial Qualification Review only)

Superintendent of Maintenance

Station Manager



REVIEW PANEL EVALUATION OF SSLO EXAMINATION

Category	Subject	Question Number
M	Reactor and Fuel Characteristics	_____
N	Equipment, Instrument and Design	_____
O	Procedures and Limitations	_____
P	Emergency Systems and Safety Devices	_____
Q	Health Physics and Radiation Protection	_____

Comments on exam contents with any clarification or changes made:

Date _____

Technical Training Supervisor
or Delegate

Superintendent of Maintenance

Station Manager

Superintendent of Training

Other



I. Requirements for Classified Mechanic - Fuel Handler

- A. Complete the sixth 6 months of the Mechanical Maintenance apprenticeship and/or currently enrolled in the Mechanical Maintenance Training Program.

_____ Date _____ Signature, Maintenance Supervisor

_____ Date _____ Instructors Initials

- B. Academic Lessons Completed _____

- C. Task Performance/OJT Completed _____

- D. Perform the required manipulations with fuel handling equipment.

_____ Date _____ Signature, Technical Training Supervisor

_____ Date _____ Signature, Superintendent of Maintenance

- E. Successfully complete an NRC Simulated SRO, Limited to Fuel Handling, oral examination (Form FH-2).

_____ Date Passed _____ Signature, Technical Training Supervisor



SPECIAL SENIOR LICENSED OPERATOR

F. Successfully complete a Simulated NRC SRO, Limited to Fuel Handling, written examination.

	<u>NRC Category</u>	<u>Grade</u>
M.	Reactor and Fuel Characteristics	_____
N.	Equipment, Instrumentation and Design Description	_____
O.	Procedures and Limitations	_____
P.	Emergency Systems and Safety Devices	_____
Q.	Health Physics and Radiation Protection	_____
	Overall	_____

 Date Passed Signature, Technical Training Supervisor

G. Recommended for NRC Examination.

 Date Signature, Technical Training Supervisor

 Date Signature, Superintendent of Training

 Date Signature, Station Manager

- H. Successfully complete the NRC Senior Reactor Operator, Limited to Fuel Handling, examination.

_____ Date _____ Signature, Technical Training Supervisor

- I. Qualification as Classified Mechanic - Fuel Handler verified complete.

_____ Date _____ Signature, Superintendent of Maintenance

_____ Date _____ Signature, Station Manager

_____ Date _____ Signature, Technical Training Supervisor



FUEL HANDLER ORAL EXAMINATION REPORT

Name _____		Date _____				
		Satisfactory			Unsatisfactory	
		Exc.	Good	Fair	Poor	Very Poor
1. Prerequisites for Fuel Handling Activities						
a. Personnel Requirements						
b. Equipment Requirements						
2. Manipulations						
a. Refueling Equipment						
b. Auxiliary Equipment						
3. Fuel						
a. New						
b. Irradiated						
4. Instrumentation Requirements and Operation						
5. Facility Equipment Design						
a. Heat Removal Systems						
b. Safety and Emergency Systems						
c. Tools & Cask						
d. Reactor and Storage Well Internals						
e. Shipping Equipment						
6. Procedures						
a. Normal						
b. Emergency						
c. Facility Emergency Plan						



FUEL HANDLER REQUALIFICATION SUMMARY

NAME _____

REQUALIFICATION PERIOD _____ to _____

A. Requalification Examination Prerequisites:

	DATE	INST. INIT.
1. Academic Lesson Completed	_____	_____
2. Task Performance/OJT completed	_____	_____
3. New Fuel to Storage Movement	_____	_____

B. Written Examination Result

Date exam administered _____

<u>SECTION</u>	<u>GRADE</u>	<u>MAKEUP</u>
O. Reactor and Fuel Characteristics	_____	_____
P. Equipment Instrumentation and Design	_____	_____
Q. Procedures and Limitations	_____	_____
R. Emergency Systems and Safety Devices	_____	_____
S. Health Physics and Radiation Protection	_____	_____
Overall	_____	_____

Review Panel Review Completed _____
 Technical Training Supervisor



C. Fuel Handler requalification verified complete.

Authorized to act as a Fuel Handler until next requalification period.

Date

Signature, Technical Training supervisor

Date

Signature, Superintendent of Maintenance

Date

Signature, Station Manager