

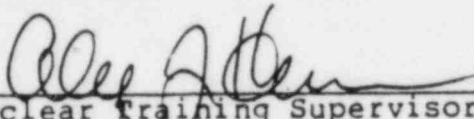
TRAINING PROCEDURE NO. 305
NRC LICENSED OPERATOR REQUALIFICATION PROGRAM
FOR SALEM GENERATING STATION

- References:
1. Technical Specifications
Section 6.4
 2. 10CFR55, Appendix A
 3. ANSI N18.1 - 1971
 4. INPO's "Guidelines for Requalification Training
and Evaluation", Rev. 0, dated October 8, 1980.
 5. Sections A & C of Enclosure 1 - March 28, 1980
letter to all licensees (Denton letter).

NOTE: PROGRAM CHANGES

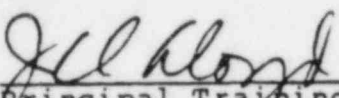
No change may be made to the approved requalification training program that decreases the scope, time allotted for the program, or frequency in conducting different parts of the program, unless that change is reviewed and approved by the Manager - Nuclear Training and submitted to the NRC.

Submitted:


Nuclear Training Supervisor -

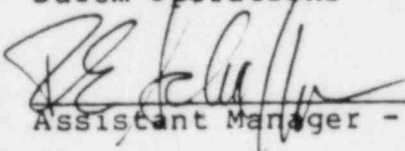
12/6/84
Date

Reviewed:


Principal Training Supervisor -
Salem Operations

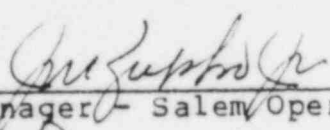
12/6/84
Date

Approved:


Assistant Manager - Operations

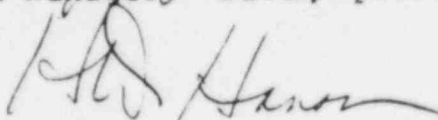
12/21/84
Date

Approved:


General Manager - Salem Operations

1/4/85
Date

Approved:


Manager - Nuclear Training

1-10-85
Date

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1.0 Introduction

1.1 Purpose

The Nuclear Regulatory Commission (NRC) requires that all individuals who manipulate the controls of a nuclear facility or supervise the manipulation of those controls, be authorized by a license issued from the Commission. In addition, the NRC requires that an individual possessing an operating license be enrolled in a continuous and ongoing Regualification Program, to ensure that all licensed individuals maintain a high degree of knowledge and operating ability. All licensed and certified instructors shall be enrolled in the Regualification Program so they remain cognizant of current operating history, procedural changes, design changes and administrative policies.

1.2 Objectives

The Licensed Operator Regualification Program objectives are to ensure that all licensed personnel maintain the high levels of skill and knowledge required for safe and efficient plant operation while meeting regulatory standards and industry guidelines.

2.0 Regualificat on Program

All licensed operators, except those enrolled in a comparable training program, shall participate in the Licensed Operator Regualification Program. The program outlined below is designed to maintain a licensed individual's knowledge, competence and proficiency, and to meet the requirements imposed by federal regulation for license renewal.

The program will run on an annual basis with all program requirements completed during the two year regualification cycle. September is considered the starting month for each annual training session.

2.1 Pre-planned Lecture Series

A pre-planned lecture series shall be given to all licensed operators on an annual basis. Scheduled lectures may be deferred due to unanticipated events or conflicts, but should be conducted at a later date. The lecture series should involve a minimum of 100 contact hours of instruction*, divided among the program topics and appropriately scheduled throughout the regualification annual session.

* A one hour period in which the course instructor is present or immediately available for instructing or assisting students.

2.1.1 Types of Lectures

2.1.1.1 Fundamentals Review

The Fundamentals Review training session covers areas requiring theoretical knowledges to perform tasks associated with heat transfer, fluid flow, thermodynamics, electricity, mitigation of accidents involving a degraded core and those subject areas delineated in Ref. 1 thru 5. The emphasis in scope and depth of coverage should be based upon deficiencies identified during examinations or as delineated by station management. Skills and knowledges identified by the Job Task Analyses should be used to insure that all appropriate areas are covered in a cyclic fashion.

2.1.2.2 Operational Proficiency

The Operational Proficiency training sessions cover areas which involve essential plant operational guidelines. This lecture series shall focus on operational change and experiences (industry wide and at Salem). Possible topics include the following:

Operating Procedures

Technical Specifications

Administrative Procedures

Significant License Event Reports

Related Nuclear Industry Operating Experiences

2.1.2 Attendance

2.1.2.1 100% participation shall be required of all licensed individuals.*

***ATTENDANCE** - Exceptions being 1) Those individuals possessing a valid Baccalaureate Degree directly related to the lecture topic (e.g., EE, Basic Electricity; ME, Thermo; Nuclear Engineering, Reactor Theory, etc.) may be exempt from lectures in those categories, at the discretion of the Principal Training Supervisor, with the exception of lectures addressing operating experience. 2) Those training instructors who are actively involved in specific requalification lectures. 3) Those individuals granted waivers by the Principal Training Supervisor-Salem Operations.

2.1.2.2 Attendance for every lecture shall be recorded on Form TP 305-1.

2.1.2.3 Absences shall be made up within the annual regualification year, via:

- 1) Rescheduled lecture attendance or
- 2) Self-study and discussion with knowledgeable personnel designated by the Principal Training Supervisor - Salem Operations or his designee: The absentee may be required to pass a quiz covering the material missed.

Self-study/discussion method of lecture makeup should not be used for greater than 20% of the lectures missed (unless permission is given by the Principal Training Supervisor - Salem Operations).

Personnel not completing make-up work within the required time will be treated I.A.W. 10CFR55.31 (C).

2.1.2.4 Persons who have successfully completed the previous year's regualification program may be excused from the session if they meet the requirements of Section 2.3.1.8 of this procedure.

2.1.3 Lecture Presentation

2.1.3.1 An approved lesson plan should accompany each training lecture. The lesson plan should be retained as part of the program records.

2.1.3.2 The use of training aids (films, slides, models, transparencies, etc.) is encouraged. Should films or videotape presentations be used, an instructor shall be available to explain or emphasize the presentation.

2.1.3.3 Instructional objectives should be based on the appropriate JTA(s), whenever possible.

2.1.4 Study Periods

- 2.1.4.1 Study periods should be scheduled in conjunction with the Pre-Planned Lecture Series to provide trainees with an opportunity to reinforce the lecture series and to study new or additional material.
- 2.1.4.2 Individual self-study should not be substituted for scheduled lectures, except in unusual circumstances, such as instructor unavailability.
- 2.1.4.3 Study assignment sheets may be used as a method of structured self-study. Segment exam questions shall not be stated exactly as they appear on the study assignment sheet. Study assignment sheets should be used to reinforce concepts presented during the lecture series.

2.1.5 Evaluation

- 2.1.5.1 Periodic evaluation quizzes covering the content of the requalification lecture series should be administered. The quizzes will be used to evaluate the trainee's knowledge, effectiveness of the lecture series and overall effectiveness of the presentation. If the quiz requires any reference material, the material shall be provided by the training staff. This information will be identified on the quiz cover sheet and should be limited to steam tables, emergency plan procedures and equation sheets.
- 2.1.5.2 The effectiveness of the lecture series should be evaluated by the trainees and the Nuclear Training Supervisor.
 - 1) Trainee evaluation may be in the form of written critiques or oral seminars.
 - 2) Nuclear Training Supervisor evaluation should be directed toward the effectiveness of the presentation.
 - 3) The results of these evaluations shall be considered for subsequent requalification training. The

results of this evaluation should be forwarded to the Principal Training Supervisor for review and comment.

2.1.6 Exceptions

Any licensed operator enrolled in a senior operator upgrade program shall be credited with successful completion of the annual classroom training portion of the licensed operator requalification program.

2.2 On-the-job Training

The purpose of this training is to ensure that each licensed operator maintains an acceptable level of skills and familiarity associated with plant systems, controls and operational procedures. On-the-job training is divided into two types of training:

Reactivity Manipulations/Plant Evolutions

Operational Review

2.2.1 Reactivity Manipulations/Plant Evolutions

During the two year term of the NRC license, each licensed individual shall participate in a variety of reactivity control manipulations and plant evolutions. During each annual cycle, each licensed individual shall participate in the activities listed on attachment TP-305-3. On a two year cycle basis, each licensed individual shall participate in the evolutions listed on attachment TP-305-4. Note: Evolutions marked with an asterisk are required, others are recommended.

Reactivity manipulations and plant evolutions may be completed at the station or on a training simulator. Licensed operators (RO) shall actually manipulate the controls. Licensed senior operators (SRO) may either manipulate or actively supervise the manipulation of the controls.* Response to abnormal/emergency conditions should include the use of alternate methods of accomplishing a given function. Exercises involving multiple failures and/or operator error shall be included. Utilization of applicable plant procedures, Emergency Plan and Technical Specifications during the training exercise should be maximized.

2.2.1.1 Nuclear Plant Simulator Exercises

- a) Licensed individuals shall participate in a structured training program, involving at

least twenty (20) hours of direct interaction with the simulator nuclear plant control panel, on an annual basis.

- b) During the simulator training sessions, the team concept should be utilized, emphasizing individual roles in reporting, assignment of operational duties, use of plant procedures and use of Technical Specifications. No more than four (4) licensed individuals should be assigned to participate in a simulator training session requiring direct interaction with the control panel.
- c) Simulator training schedules will be coordinated with simulator group and conducted I.A.W. simulator procedures.

2.2.2 Operational Review

Operational review provides a mechanism for the continuing updating of on-shift personnel, including the dissemination of new or changing information.

2.2.2.1 Modification Review

- a) A continuing system (Operations Department Information Directives (ID)) has been established to ensure licensed individuals are aware of plant design changes, equipment modifications, procedural changes and Technical Specification changes. The Rising Sun - Operations Daily Newsletter is also used to provide Unit status, DCR update reports and miscellaneous notices to all operations personnel.

Completed ID routing sign-off sheets shall be forwarded to the Training Center Librarian and retained as documentation of review completion.

- b) The Principal Training Supervisor or his designee shall review the Operations Daily Newsletter, LERs, etc., and ID's and forward those items requiring expanded coverage to the Training Supervisor - Licensed Operator Regualification.

2.2.2.2 Operating Experience Review

- a) A continuing system (Operations daily newsletter and ID's) has been established to ensure licensed individuals review operating experience from the station and applicable segments of the nuclear industry. Operating experience should be obtained from, but not limited to, the following: license event reports (LERs), NSAC/INPO significant event reports and nuclear industry publications/periodicals. Completed routing sign-off sheets shall be forwarded to the Training Center Librarian and retained as documentation of review completion.
- b) The Principal Training Supervisor or his designee shall review operating experience items and forward those requiring expanded coverage to the Nuclear Training Supervisor - Licensed Operator Requal. Selected nuclear plant accidents/transients should be analyzed and integrated into the nuclear plant simulator exercises as appropriate.

2.2.2.3 Emergency Instruction/Emergency Operating Procedure Review

All Emergency Instructions/Emergency Operating Procedures shall be reviewed by all licensed personnel on an Annual basis. Completed check-off sheets (TP-305-7) shall be forwarded to the Training Supervisor - Licensed Operator Requalification, who will ensure compliance and retain completed sheets as documentation of review completion.

2.3 Annual Requalification Examination

Each licensed operator shall be given four segment requalification examinations to determine the following: areas in which retraining is needed, knowledge of the topics covered in the Requalification Program and knowledge of abnormal and emergency procedures. The annual examination shall consist of four segmented written exams and a comprehensive oral

exam. Personnel not achieving the established minimum acceptable performance level, shall be enrolled in an Accelerated Retraining Program. A recommendation concerning the continuation of licensed duties shall be made by the Manager -Nuclear Training to the Assistant General Manager -Salem Operations.

2.3.1 Written Examination

- 2.3.1.1. A written examination shall be administered at the completion of each training segment. Examinations should reflect only those areas addressed during the previous training segment. The combination of all segment exams will constitute the annual written examination.
- 2.3.1.2 The examination and answer key shall be reviewed and approved by the Principal Training Supervisor or his designee prior to use.
- 2.3.1.3 The examination and answer key should be reviewed by the Principal Training Supervisor - Program and Professional Development, or his designee, prior to use.
- 2.3.1.4 The examination should be administered to a member of the training staff (for determination of exam length and clarity) prior to use.
- 2.3.1.5 To prevent compromise, at least 33% of the examination shall be changed each time it is administered. The examination shall be administered in accordance with NRC requirements (i.e., dedicated restroom facility, desk spacing, exam proctor, etc.).
- 2.3.1.6 The written segment examination shall be administered and graded by a member of: the station technical staff, station management staff, training department, independent consulting firm or the NRC. A grade of 70% on each exam and an overall grade of 80% is required for satisfactory performance. If an individual fails to obtain a grade of 70% or greater, his exam shall

be reviewed by a different person. If the review results in concurrence between the first and second review, then the exam failure shall stand. If there is disagreement between the first and second reviewer, a third independent review shall be conducted with a majority ruling.

2.3.1.7 A summary of the written examination results shall be furnished to the Assistant General Manager - Salem Ops. by the Manager - Nuclear Training within 15 working days.

2.3.1.8 Any licensed operator who has successfully completed the previous year's Requalification Annual Segment Exams with no section \leq 80% and an overall average of \geq 90% may choose to take any segment exam prior to the lecture series (referred to as the "Bypass Exam"). These candidates must be approved by the Principal Training Supervisor - Salem Operations.

The Training Supervisor - L.O. Requal should fill out form TP-305-8 and forward it to the appropriate individuals.

The student shall be excused from that segment's lecture series and exam by attaining \geq 80% on the bypass exam. The student will be allowed one opportunity per segment to successfully complete the bypass exam.

2.3.2 Oral Examination

2.3.2.1 Oral Examination shall be administered to each licensed operator. The examinations shall be conducted by personnel holding an equivalent operator license or certification on the Salem Plant, or a plant of similar design, or by personnel who have successfully completed education and training programs required for such a license or certification. The examination should consist of an in-plant walk-thru and may include a test on the Salem Simulator.

2.3.2.2 The Oral Examination should focus on those areas important to the safe operation and shutdown of the reactor and the prevention of the release of fission products to the environment.

2.3.2.3 Examinations shall be conducted under a structure which ensures consistency in questioning and evaluation. The following guidelines should be considered:

- 1) The use of an oral examination summary sheet (TP-305-5) or the equivalent simulator performance measurement tool.
- 2) The overall evaluation should be made on a pass/fail basis.
- 3) Comments on individual strengths and weaknesses should be documented and discussed with the individual at the completion of the examination.

2.3.2.4 A summary of the Oral Examination results shall be furnished to the Assistant General Manager -Salem Ops. by the Manager -Nuclear Training within 15 working days.

2.3.3 Newly Licensed Individuals

Upon receipt of their license, individuals shall enter the Requalification Program by attending subsequent requalification sessions with their assigned shift.

2.3.3.1 If an individual has received a license within the six month period prior to to his shift taking the Oral Examination, this individual may be granted exemption oral.*

2.3.3.2 If an individual has received a license during his shift training segment, this individual may be granted exemption from taking that segment exam.

2.4 Special Retraining Programs

Specific retraining programs for licensed individuals may be required to upgrade or refresh knowledge and skills related to licensed duties.

2.4.1 Accelerated Retraining Program

This program is for licensed individuals exhibiting deficiencies and/or failing to meet the minimum grade requirements on the written segment or oral examinations.

2.4.1.1. Preliminary Action(s)

The Principal Training Supervisor shall notify the Manager - Nuclear Training of any licensed operator required to participate in an Accelerated Retraining Program. The Manager - Nuclear Training shall make a recommendation to the Assistant General Manager - Salem Operations as to whether the licensed operator should, in addition, be relieved from all or a portion of his licensed duties until successfully retested. In making this recommendation, the Manager -Nuclear Training should consider, but not be limited to:

- 1) The requalification exam results
- 2) Overall performance in the current program.
- 3) Past performance in the program.
- 4) Licensed duty performance record
He shall confer with the Operations Manager - Salem to establish this.
- 5) Performance on the simulator.
- 6) Extenuating circumstances which may have influenced the results on a specific requal examination.

2.4.1.2 Program Content

The Accelerated Retraining Program should be specifically structured to upgrade knowledge and skills identified as deficient. Examination categories and areas which performance standards were not met shall be covered in the

program. The Principal Training Supervisor - Salem Operations shall approve the Accelerated Retraining Program.

2.4.1.3 Performance Standards

- 1) Successful completion of the Accelerated Retraining Program shall be determined by administering an examination. The examination shall cover all areas of the segment written and/or oral examination originally failed. The examination shall be conducted by individuals designated by the Principal Training Supervisor in accordance with Section 2.3.2.1.
- 2) Satisfactory performance in the Accelerated Retraining Program shall be a score of at least 80% on the written examination and/or a passing evaluation on the oral examination.
- 3) In the event that these performance standards are not met by the individual, the Assistant General Manager - Salem Operations (based on recommendations by the Manager - Nuclear Training) shall determine whether the individual should be permanently removed from licensed duties or if additional upgrading efforts are appropriate.

2.4.2 Inactive Status Retraining

- 2.4.2.1 Active status is maintained by the satisfactory performance of licensed duties and participation in the Licensed Requalification Program. If an individual has not actively carried out licensed duties for a period in excess of four months, a special retraining program and/or evaluation shall be completed prior to resuming licensed duties (10CFR55.31 (e)).
- 2.4.2.2 In the event that a licensed individual does not maintain an active status, the Manager - Nuclear Training shall determine specific requirements that must be met prior to resuming licensed duties.

- 2.4.2.3 The specific requirements established shall include the administering of an oral and/or written exam similar in scope and format to the requalification exams. The same performance standards apply to these exams.

NOTE:

ALL NON-SHIFT LICENSED PERSONNEL, EXCEPT (DUE TO THEIR INTIMATE INVOLVEMENT IN PLANT OPERATIONS) FOR THE GENERAL MANAGER-SALEM OPERATIONS, ASSISTANT GENERAL MANAGER - SALEM OPERATIONS, OPERATIONS MANAGER, THE OPERATING ENGINEER, AND THE SENIOR OPERATIONS SUPERVISOR, WILL ACTIVELY PARTICIPATE IN CONTROL ROOM OPERATION A MINIMUM OF ONE SHIFT EACH CALENDAR QUARTER. DURING THIS PERIOD, THESE LICENSED PERSONNEL MUST ASSUME THE DUTIES OF THE SHIFT LICENSED OPERATOR OR THE SHIFT SUPERVISOR IN THE CONTROL ROOM AREA. PARTICIPATION SHALL BE DOCUMENTED BY AN ENTRY IN CONTROL ROOM LOG 1 AND BY COMPLETING FORM TP-305-6 AND FORWARDING TO THE TRAINING CENTER.

2.5 Evaluation

- 2.5.1 The Requalification Program should be evaluated at the completion of each annual requalification session to determine the effectiveness of the program in meeting designated requirements and to identify the job performance results attributable to training.
- 2.5.2 The Principal Training Supervisor or his designee should conduct this evaluation/review. He should utilize, but not be limited to, the following inputs:
- 1) Inspection, audit and evaluation reports of requalification training completed by outside organizations and station personnel.
 - 2) Program oral and written examination results.
 - 3) Plant operational problems related to licensed individual knowledge or skill deficiencies.
 - 4) License Event Reports, related to licensed individual performance, from the station and the nuclear industry.
 - 5) Regulations and standards affecting licensed operator training.
 - 6) Trainee course critiques

2.5.3 Requalification Program deficiencies and licensed operator retraining needs, determined by the review, shall be identified and referred to the Salem Operations Training Review Group for further action, as necessary.

2.5.4 A summary of the Annual Examination results shall be forwarded to the Manager - Nuclear Training and the Assistant General Manager - Salem Operations within 30 days of the Annual Requalification Session completion date.

3.0 Training Instructor Requalification Program

3.1 Document Review

All training instructors licensed or certified for Salem shall review pertinent operating records, procedures, design changes and modifications selected by the Principal Training Supervisor or his designee. These documents include, but are not limited to, the following:

- 1) Emergency and casualty procedures
- 2) Technical Specification changes
- 3) Operation department information directives
- 4) Significant design changes
- 5) NRC I&E bulletins, circulars and information notices.
- 6) Significant License Event Reports

3.2 Practical Training

3.2.1 Each training instructor licensed or certified on the Salem Plant shall perform or evaluate the performance of those manipulations identified on attachments TP-305-3 and TP-305-4.

3.2.2 Each licensed or certified training instructor should meet the requirements of the NOTE: that follows 2.4.2.3.

3.2.3 Training in instructional skills such as classroom presentation and test development should be conducted as necessary and in accordance with the Instructor Development Manual.

3.3 Exceptions

All licensed training instructors shall participate in the Licensed Operator Requalification Program. The Principal Training Supervisor - Salem Operations may excuse individual instructors from all or a portion of this program if, by the end of the two year requalification term, they have received equivalent training through the performance of their instructor duties. Instructor duties include such items as:

Lecture presentations

Lesson plan review

Written examination/answer key preparation

Written examination grading

Oral examination administration

Simulator Lesson Preparation

Simulator Lesson Presentation

4.0 Records

Auditable records of the Requalification Program and each licensed individual's performance in the Requalification Program shall be maintained for the life of the plant. The Nuclear Training Center Records Group is responsible for maintaining the program records in accordance with approved procedures.

4.1 The following documentation should be maintained in the program file.

- 1) Composite copy of examination results
- 2) An as presented copy of the program schedule
- 3) Operational review series participation sign off sheets
- 4) Lecture series attendance records

5) A copy of all written examinations administered and associated answer keys.

6) Lecture series lesson plans

4.2 The following documentation should be maintained in the individual's training file.

1) Oral and written examinations

2) A copy of any license application or license renewal

3) A copy of completed reactivity manipulation check off sheets, and plant evolution check off sheets, emergency instruction review sheets and watchstanding verification forms.

4) A copy of simulator training participation records

5) Any documentation to or from the NRC referencing the individuals training or qualification.

6) Any internal documentation associated with the individuals admission to, elimination from or status in a training program.

SALEM UNITS 1 & 2
LICENSED OPERATOR REQUALIFICATION PROGRAM
ATTENDANCE/CONTENT DOCUMENTATION

TRAINING LOCATION: _____ DATE: _____

Name (Please Print)	Signature	Social Security Number
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
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_____	_____	_____
_____	_____	_____

Subject	Hours	Instructor
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

TOTAL HOURS: Classroom: _____ Examinations: _____ Other: _____ (Explain)
Study: _____ Walk Through: _____
Film: _____ Videotape: _____
Simulator: _____

SALEM UNITS 1 & 2
LICENSED OPERATOR REQUALIFICATION
PRE-PLANNED LECTURE SERIES MAKEUP
DOCUMENTATION

EXAMINEE: _____

POSITION: _____

LICENSED: OPERATOR LICENSE

DATE: _____

SENIOR OPERATOR LICENSE

EXAMINER: _____

POSITION: _____

EXAM AREA: _____

EXAM TYPE: ORAL

WRITTEN

COMMENTS: _____

ORAL: PASS

WRITTEN: _____ (GRADE)

FAIL

SALEM UNITS 1 & 2
LICENSED OPERATOR REQUALIFICATION
PLANT EVOLUTIONS DOCUMENTATION

LICENSE: RO/SRO
(Circle)

NAME: _____

Performed (Circle) S2/S3/INSTRUCTOR INITIALS ANNUAL EVOLUTIONS

PLANT/SIM.			*Reactor startup to POAH
PLANT/SIM.			Plant Shutdown
PLANT/SIM.			*Manual control of S/G Level and/or Fdw. during Plant S/U
PLANT/SIM.			*Manual control of S/G Level and/or Fdw. during Plant S/D
PLANT/SIM.			Boration and/or Dilution during Plant Operation
PLANT/SIM.			*10% Power Change with Control Rods in Manual
PLANT/SIM.			10% Power Change with Turbine Controls in Manual
PLANT/SIM.			Manual Turbine Startup
PLANT/SIM.			Decay Heat Removal System Operation
PLANT/SIM.			Reactor Trip
PLANT/SIM.			Turbine or Generator Trip
PLANT/SIM.			*LOCA: S/G tube Leak Rupture
PLANT/SIM.			*LOCA: Inside Containment
PLANT/SIM.			*LOCA: Outside Containment
PLANT/SIM.			*LOCA: Saturated Reactor Coolant Response
PLANT/SIM.			*Loss of R.C. Flow/Natural Circulation
PLANT/SIM.			*Loss of all Feedwater
PLANT/SIM.			Loss of Shutdown Cooling
PLANT/SIM.			Incore Monitoring System
PLANT/SIM.			Control Room Inaccessability
PLANT/SIM.			Control Room Calculations Heat Balance/Reactivity Balance/Inventory Balance

- NOTE: * The above ANNUAL EVOLUTIONS shall be performed at a nuclear plant simulator or during actual plant operations. However, to receive credit for performance of these evolutions they must be documented on this form and forwarded to the TRAINING CENTER.
- * The *(asterisk) marked evolutions shall be performed satisfactorily, other items should be performed but are not required.
- * Some required Biennial evolutions may be suggested Annual evolutions.
- * SRO-LICENSED personnel may receive credit for an evolution they direct or evaluate as it is performed.
- * For LOCAs, a small and large LOCA with leak rate determination must be included annually.
- * A total of ten (10) reactivity manipulations must be performed/simulated annually.

**SALEM UNITS 1 & 2
LICENSED OPERATOR REQUALIFICATION
PLANT EVOLUTIONS DOCUMENTATION**

LICENSE: RO/SRO
(Circle)

NAME: _____

Performed S^2/S^3 /INSTRUCTOR
(Circle) DATE INITIALS

BIENNIAL (Every 2 years) EVOLUTIONS

PLANT/SIM.			* Nuclear Instrumentation Failure(s)
PLANT/SIM.			* Loss of Protective System Channel(s)
PLANT/SIM.			* Mispositioned Control Rod(s) (or rod drops)
PLANT/SIM.			* Inability to Drive Control Rod(s)
PLANT/SIM.			* Conditions Requiring Use of the Emergency Boration System
PLANT/SIM.			* Fuel Cladding Failure, or High Activity in RCS, or High Activity in Off-Gas
PLANT/SIM.			* Malfunction of Automatic Control System(s) which Affect Reactivity
PLANT/SIM.			* Malfunction of Reactor Coolant Pressure/Volume Control System
PLANT/SIM.			* Loss of Instrument Air
PLANT/SIM.			* Loss of Electrical Power and/or Degraded Power Source
PLANT/SIM.			* Loss of Condenser Vacuum
PLANT/SIM.			* Loss of Service Water
PLANT/SIM.			* Loss of Component Cooling System or Cooling to an individual Component
PLANT/SIM.			* Loss of Normal Feedwater or Normal Feedwater System Failure
PLANT/SIM.			* Main Steam Line Break (Inside or Outside Containment)
PLANT/SIM.			* Plant Shutdown
PLANT/SIM.			* Boration and/or dilution during power operation
PLANT/SIM.			* 10% Power Change with Turbine Controls in Manual
PLANT/SIM.			* Loss of Shutdown Cooling
PLANT/SIM.			* Turbine or Generator trip
PLANT/SIM.			* Reactor trip

- NOTE:
- * The above BIENNIAL EVOLUTIONS shall be performed at a nuclear plant simulator or during actual plant operations. However, to receive credit for performance of these evolutions they must be documented on this form and forwarded to the TRAINING CENTER.
 - * The *(asterisk) marked evolutions shall be performed satisfactorily, other items should be performed but are not required.
 - * SRO-LICENSED personnel may receive credit for an evolution they direct or evaluate as it is performed.
 - * Some required Biennial evolutions may be suggested Annual evolutions.

SALEM UNITS 1 & 2
LICENSED OPERATOR ORAL EXAMINATION
CHECKLIST AND DOCUMENTATION

EXAMINEE: _____

POSITION: _____

LICENSED:

OPERATOR LICENSE

DATE: _____

SENIOR OPERATOR LICENSE

EXAM PURPOSE:

ANNUAL ORAL EXAMINATION

DEFICIENT ANNUAL WRITTEN - LICENSED EVALUATION

DEFICIENT ANNUAL ORAL - LICENSED EVALUATION

REMEDIAL TRAINING ORAL EXAMINATION

INACTIVE STATUS ORAL EXAMINATION

OTHER _____

EXAMINER: _____

POSITION: _____

EXAMINATION AUTHORIZATION: _____

DATE: _____

RECOMMENDATION:

PASS

EXAMINER SIGNATURE:

FAIL

DATE: _____

COMMENTS:

ORAL EXAMINATION GRADE/SUMMARY SHEET

Examinee: _____

Examiner: _____

Position: _____

Date: _____

		S	U	M
1.	Licensed Duties and Responsibilities of Position			

2. Actions in the Event of Abnormal Conditions

3. Actions in the Event of Emergency Conditions

ORAL EXAM GRADE/SUMMARY SHEET (Continued)

4. Interpretation of Instrumentation Response S U M

5. Plant Transient and Accident Report S U M

6. Plant Modifications S U M

ORAL EXAM GRADE/SUMMARY (Continued)

7. Procedures and Procedural Changes

S U M

8. Technical Specifications

S U M

9. Emergency Plan

S U M

ORAL EXAM GRADE/SUMMARY (Continued)

	S	U	M
10. Plant Operating History and Problems			

	S	U	M
11. Related Nuclear Industry Operating Experience			

Summary

STRENGTHS:

WEAKNESSES:

Oral Exam Summary Reviewed:

Examinee Signature

Date

Examiner Signature

Date

SALEM UNITS 1 & 2
OFF-SHIFT LICENSED OPERATOR
WATCH STANDING DOCUMENTATION

I certify that _____ has
(Off-Shift Licensed Operator)
satisfactorily assumed (under instruction) and performed the
duties of:

Senior Shift Supervisor
Shift Supervisor
Nuclear Control Operator

on the 12-8, 8-4, 4-12 shift this date of _____
(Circle One)

SHIFT SUPERVISOR/SENIOR SHIFT SUPERVISOR

PLEASE FORWARD THE COMPLETED FORM TO THE TRAINING CENTER.

NAME: _____

UNIT 1/2 EMERGENCY INSTRUCTIONS REVIEW FORM

		INITIALS/DATE	
E.I.	I-4.0	Safety Injection Initiation	_____ / _____
	I-4.1	Flooding and/or High Wind Conditions	_____ / _____
	I-4.2	Recovery From Safety Injection	_____ / _____
	I-4.3	Reactor Trip	_____ / _____
	I-4.4	Loss of Coolant	_____ / _____
	I-4.5	Loss of RCP and/or Flow	_____ / _____
	I-4.6	Loss of Secondary Coolant	_____ / _____
	I-4.7	Steam Generator Tube Failure	_____ / _____
	I-4.8	Rod Control System Malfunction	_____ / _____
	I-4.9	Blackout	_____ / _____
	I-4.9A	Loss of all AC	_____ / _____
	I-4.10	Control Room Evacuation	_____ / _____
	I-4.11	High Reactor Coolant Activity	_____ / _____
	I-4.12	Loss of Feedwater	_____ / _____
	I-4.13	Loss of Circulating Water/Loss of Vacuum	_____ / _____

NAME: _____

UNIT 1/2 EMERGENCY INSTRUCTIONS REVIEW FORM

	<u>INITIALS/DATE</u>
E.I. I-4.14 Service Water System Malfunction	_____/____
I-4.15 Loss of Component Cooling	_____/____
I-4.16 Radiation Incident (Unit 1)	_____/____
I-4.16A Radiation Incident (Unit 2)	_____/____
I-4.17 Partial Loss of Reactor Coolant	_____/____
I-4.18 Loss of Control Air	_____/____
I-4.19 Malfunction of Nuclear Instrumentation	_____/____
I-4.20 Failure of Reactor Coolant Pump	_____/____
I-4.21 Condenser Tube Leak	_____/____
I-4.22 Loss of RHF Shutdown Cooling	_____/____
I-4.23 Loss of Containment Integrity	_____/____
I-4.24 Malfunction of Pressurizer Relief/Safety Valve	_____/____
I-4.25 Fuel Handling Incident	_____/____
I-4.26 Secondary System Leaks	_____/____

Name

EMERGENCY OPERATING PROCEDURES REVIEW FORM

REACTOR TRIP/SAFETY INJECTION SERIES

INITIALS/DATE

EOP-TRIP-1, Reactor Trip or Safety Injection
EOP-TRIP-2, Reactor Trip Response
EOP-TRIP-3, SI Termination
EOP-TRIP-4, Natural Circulation Cooldown
EOP-TRIP-5, Natural Circulation Rapid Cooldown without RVLIS
EOP-TRIP-6, Natural Circulation Rapid Cooldown with RVLIS

LOSS OF COOLANT ACCIDENT SERIES

EOP-LOCA-1, Loss of Reactor Coolant
EOP-LOCA-2, Post-LOCA Cooldown and Depressurization
EOP-LOCA-3, Transfer to Cold Leg Recirculation
EOP-LOCA-4, Transfer to Hot Leg Recirculation
EOP-LOCA-5, Loss of Emergency Recirculation
EOP-LOCA-6, LOCA Outside Containment

LOSS OF SECONDARY COOLANT SERIES

EOP-LOSC-1, Loss of Secondary Coolant
EOP-LOSC-2, Multiple SG Depressurization

STEAM GENERATOR TUBE RUPTURE SERIES

EOP-SGTR-1, Steam Generator Tube Rupture
EOP-SGTR-2, Post-SGTR Cooldown
EOP-SGTR-3, SGTR with LOCA - Subcooled Recovery
EOP-SGTR-4, SGTR with LOCA - Saturated Recovery
EOP-SGTR-5, SGTR without PZR Press Control

LOSS OF POWER SERIES

EOP-LOPA-1, Loss of All AC Power
EOP-LOPA-2, Loss of All AC Power Recovery/SI Not Required
EOP-LOPA-3, Loss of All AC Power Recovery/SI Required

STATUS TREES

SOP-CFST-1, Critical Safety Function Status Trees

Name

FUNCTION RESTORATIONS

INITIALS/DATE

EOP-FRSM-1	RESPONSE TO NUCLEAR POWER GENERATION	<u> / </u>
EOP-FRSM-2	RESPONSE TO LOSS OF CORE SHUTDOWN	<u> / </u>
EOP-FRCC-1	RESPONSE TO INADEQUATE CORE COOLING	<u> / </u>
EOP-FRCC-2	RESPONSE TO DEGRADED CORE COOLING	<u> / </u>
EOP-FRCC-3	RESPONSE TO SATURATED CORE COOLING CONDITIONS	<u> / </u>
EOP-FRHS-1	RESPONSE TO LOSS OF SECONDARY HEAT SINK	<u> / </u>
EOP-FRHS-2	RESPONSE TO STEAM GENERATOR OVERPRESSURE	<u> / </u>
EOP-FRHS-3	RESPONSE TO STEAM GENERATOR HIGH LEVEL	<u> / </u>
EOP-FRHS-4	RESPONSE TO LOSS OF SG ATMOSPHERIC RELIEFS AND CONDENSER DUMP VALVE	<u> / </u>
EOP-FRHS-5	RESPONSE TO SG LOW LEVEL	<u> / </u>
EOP-FRTS-1	RESPONSE TO IMMINENT PRESSURIZED THERMAL SHOCK CONDITIONS	<u> / </u>
EOP-FRTS-2	RESPONSE TO ANTICIPATED PRESSURIZED THERMAL SHOCK CONDITIONS	<u> / </u>
EOP-FRCE-1	RESPONSE TO EXCESSIVE CONTAINMENT PRESSURE	<u> / </u>
EOP-FRCE-2	RESPONSE TO HIGH CONTAINMENT SUMP LEVEL	<u> / </u>
EOP-FRCE-3	RESPONSE TO HIGH CONTAINMENT RADIATION	<u> / </u>
EOP-FRCI-1	RESPONSE TO HIGH PRESSURIZER LEVEL	<u> / </u>
EOP-FRCI-2	RESPONSE TO LOW RCS INVENTORY	<u> / </u>
EOP-FRCI-3	RESPONSE TO VOID IN REACTOR VESSEL	<u> / </u>

BYPASS EXAM AUTHORIZATION

The following person has requested permission to take
Segment _____ "Bypass Exam" in order to fulfill the
requirements for this requalification session.

Name: _____

Requirements of TP-305-2.3.1.8 satisfied:

_____ Y

_____ N

Training Supervisor - L.O. Requalification

Permission Granted:

Operating Engineer - Salem

Permission Granted:

Principal Training Supervisor - Salem Operations

Exam Completed:

Grade: _____