

NRC DISTRIBUTION FOR PART 50 DOCKET MATERIAL

TO: Mr Collins

FROM: Florida Pwr & Light Co
Miami, Fla
R E Uhrig

DATE OF DOCUMENT 11-16-76
DATE RECEIVED 11-19-76

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PLANT NAME: Turkey Pt 3 & 4

ENCLOSURE

Proposed revision to operators requalification program.....(40ncys encl rec'd)

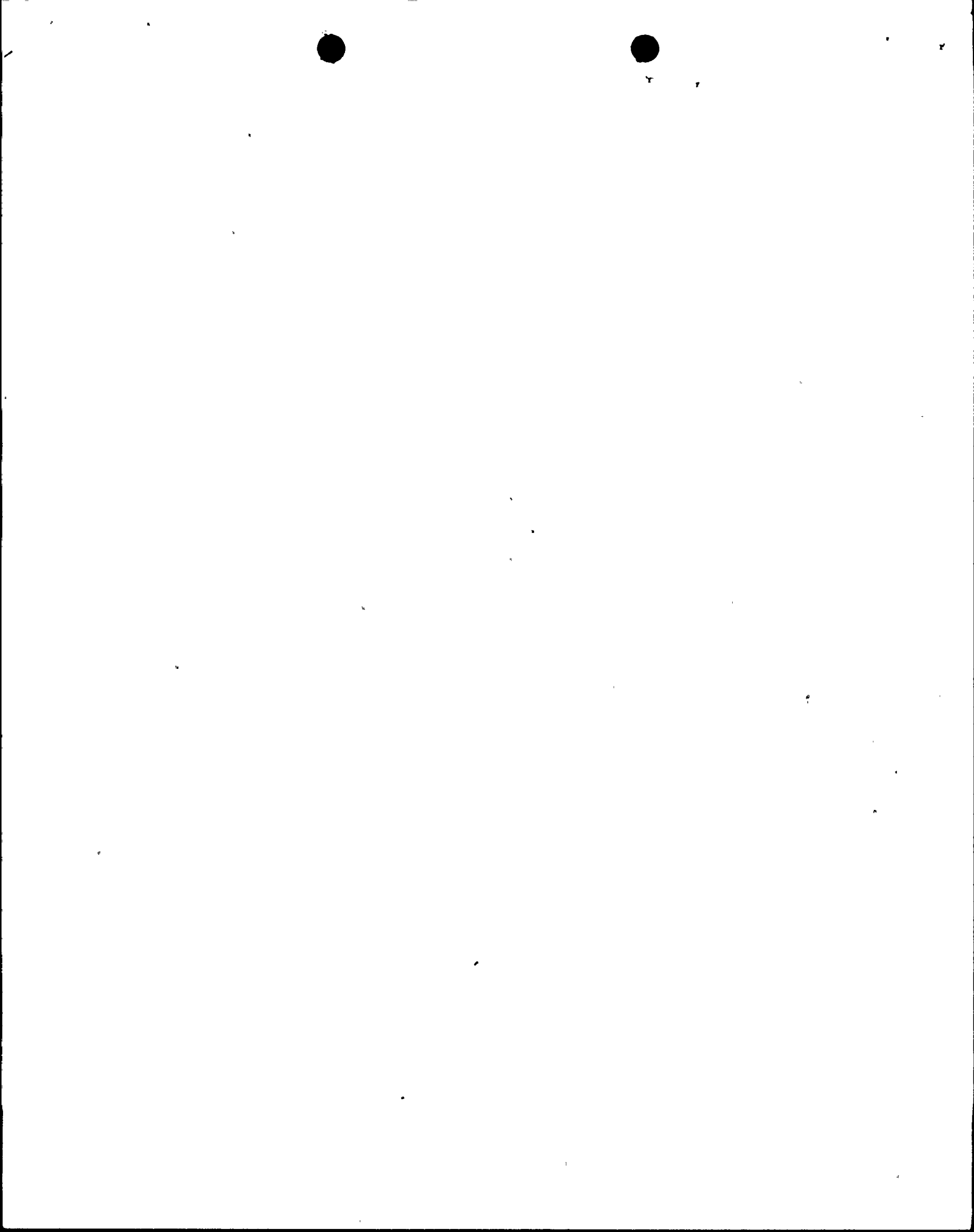
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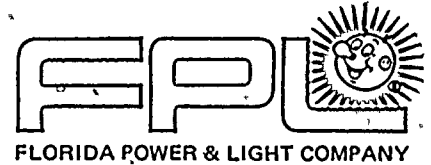
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PROJECT MANAGER:	Elliot	PROJECT MANAGER:				
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HARLESS	PAWLICKI	STELLO	
			SITE TECH.
PROJECT MANAGEMENT	REACTOR SAFETY	OPERATING TECH.	CAMMILL
BOYD	ROSS	EISENHUT	STAPP
P. COLLINS	NOVAK	SHAO	HULMAN
HOUSTON	ROSZTOCZY	BAER	
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EXTERNAL DISTRIBUTION			CONTROL NUMBER
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Regulatory Docket File

November 16, 1976
PTP-QC-76-348

Division of Project Management
Attention: Mr. Paul F. Collins
Operator Licensing Branch, Room 330
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555



Dear Mr. Collins:

Attached herewith is a proposed revision dated August 23, 1976, to the Turkey Point Plant Administrative Procedure 0301, Licensed Operator Regualification Program. Its contents reflect the conversations between Mr. R. J. Bursey of the NRC and Mr. K. E. Beatty of Florida Power & Light Company.

This proposed revision was originally submitted on September 17, 1976, and is resubmitted in accordance with the verbal request of Mr. R. J. Bursey to Mr. K. E. Beatty.

Your timely review is appreciated.

Very truly yours,

Robert E. Uhrig
Vice President

REU/HEY/DWJ/MAS/cpc

Attachment

cc: Robert Lowenstein, Esquire
Norman C. Moseley, Region II



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FLORIDA POWER & LIGHT COMPANY
TURKEY POINT UNITS 3 & 4
ADMINISTRATIVE PROCEDURE 0301
AUGUST 23, 1976

1.0 Title:

LICENSED OPERATOR REQUALIFICATION PROGRAM

2.0 Approval and List of Effective Pages:

2.1 Approval:

Change dated 8/23/76 Reviewed by PNSC August 23 1976

Approved by *A. Hays* Plant Supt., August 24, 1976

2.2 List of Effective Pages:

<u>Page</u>	<u>Date</u>	<u>Page</u>	<u>Date</u>	<u>Page</u>	<u>Date</u>	<u>Page</u>	<u>Date</u>
1	8/23/76	4	8/23/76	7	8/23/76	10	8/23/76
2	8/23/76	5	8/23/76	8	8/23/76	11	8/23/76
3	8/23/76	6	8/23/76	9	8/23/76	12	8/23/76

3.0 Scope:

3.1 Purpose:

This procedure provides instructions for conducting a requalification program which will assure that licensed operators and senior reactor operators maintain their proficiency.

3.2 Discussion:

There is a stipulation for license renewal which requires each licensed individual to demonstrate his continued competency. Competence may be demonstrated, in lieu of re-examination, by completion of an approved requalification program.

The program will repeat on a continuing one year cycle, and in brief, will consist of:

1. A series of lectures, written examinations, review of operating procedures and discussion sessions off shift.
2. On shift training wherein at least the required number of reactivity changes are performed, plant changes/modifications, operating procedure revisions and reportable occurrences are discussed, and performance under both simulated and actual off-normal and emergency situations is evaluated.



3. As individual licenses near the expiration date participation in the program will be reviewed, evaluations of performance will be analyzed, deficiencies will be rectified and a request for license renewal will be submitted to the USNRC.
4. Non-shift personnel who hold licenses and desire to keep their licenses effective shall participate fully in the program except for off-shift sessions devoted to subjects where their specialized knowledge precludes the need to attend.

3.3 Authority:

10 CFR 50.54 (i-1), 10 CFR 55.31 (e) and Appendix A to 10 CFR 55

3.4 Definitions:

- 3.4.1 Licensed Operator, or Licensee: an individual who holds an effective USNRC operator or senior operator license for Turkey Point Plant and who intends to maintain his license current.
- 3.4.2 Lecture Segment: may consist of several lecture sessions covering a particular topic or category.
- 3.4.3 Off-Site Licensee: A licensee who is;
 1. Not permanently assigned to the Turkey Point Plant, or
 2. Assigned to Turkey Point Plant but who has been absent from the site for greater than 90 days at a time.
- 3.4.4 Training Department Staff: The training organization consists of the Training Supervisor, and up to three Licensed Instructors who are permanently assigned to the department.

4.0 Precautions:

None.

5.0 Responsibilities:

5.1 The Training Supervisor is to:

1. From the results of prior examinations, evaluations and suggestions by licensed operators, determine topics to be included in regularly scheduled lectures. Prepare the material and give lectures on these specific topics or appoint a competent individual to prepare and give lectures on specific topics.
2. Prepare examinations on lecture topics and an annual operator and senior operator NRC type examination.
3. Prepare a list of procedures to be reviewed on a scheduled off-shift basis.
4. Schedule off-shift discussion sessions on topics suggested by licensed operators or of current interest, such as plant changes and modifications, plant operating problems, reportable occurrences. Where deemed advisable, appoint an individual fully conversant with the topic to lead the discussion.
5. Arrange for competent examiners to give on-shift oral evaluations of off-normal and emergency procedures.
6. When actual off-normalities/emergencies occur, request the Nuclear Plant Supervisor to prepare evaluation sheets for licensed members of his crew.

7. Review the results of written exams and evaluations and, where required, provide intensive individual training.

8. Maintain the records required to document the training given each licensee.

5.2 The Operations Superintendent-Nuclear:

Shall coordinate with the Training Supervisor to prepare a schedule for off-shift training sessions.

5.3 The Nuclear Plant Supervisor in charge of each shift:

1. Shall be familiar with the performance of operators on his shift. When requested by the Training Supervisor, he will, on the form provided, evaluate the performance of members of his crew during actual off-normal/emergency situations and discuss the evaluations.

2. Copies of all documents distributed pursuant to Section 7.1 below will be sent to the nuclear control room, and posted in a binder provided for their receipt. Each shift supervisor shall ensure that each member of his crew reviews these documents and initials the acknowledgement section of the cover letter associated with these changes.

3. The individual log of reactivity changes for licensed crew members shall be kept. The licensee is to make entries which shall be validated by the Nuclear Plant Supervisor. At intervals, the supervisor is to review the logs of his shift members to assure that the required number of changes will be made within the two year cycle.

5.4 Each Licensee Shall:

1. Attend required off-shift lectures and discussion sessions and take scheduled written examinations and evaluations.

2. Maintain his log of reactivity changes.

3. Ensure that he understands documents distributed pursuant to Section 7.1 below and signify his understanding by initialing the acknowledgement letter associated with these changes.

4. Participate in special training programs where written examinations and evaluations indicate the need.

6.0 References: 10 CFR 50.54 (i-1), 10 CFR 55.31 (e) and Appendix A to 10 CFR 55

7.0 Records and Notification:

7.1 Training Report:

A copy of each plant change or modification (or a summary of the plant change or modification), reportable occurrence, FSAR supplement, facility license amendment, and applicable procedure change shall be sent to the Nuclear Control Room, (for shift operators) and to the Training Supervisor's Office (for non-shift operators). These locations should maintain these documents in loose leaf binders, designated for the receipt of Training Reports. Document Control is responsible for posting all applicable changes in these binders periodically. Each licensee shall review these documents and shall so indicate by initialing the acknowledgement section of the Training Report Cover Letter associated with each posting. The completed training report cover letters shall be filed in Document Control. (See Figures 1A and 1B for details).

7.2 Log of Reactivity Changes:

Each licensee shall maintain his own log. The logs for shift operators will be maintained in the Nuclear Plant Supervisor's office. The logs for non-shift operators will be maintained in the Training Supervisor's office. These logs shall be updated at intervals not exceeding 2 months. At the completion of each two year license cycle, the log will be placed in the licensee's Requalification File. See Figure 2.

7.3 Performance Evaluation Sheets:

Are to be maintained in the Training Department files until completion of the licensee's two year cycle, then transferred to the Licensee's Requalification File maintained in Document Control. See Figure 3.

7.4 Log of On-Watch Duty-Off-Site Licensed Personnel:

This log will be displayed in a conspicuous location. Its purpose is to enable both the licensee and the Training Supervisor to assure that shift operation requirements are met. The logs need not be retained. Refer to Figure 4.

7.5 Records Relating to Off Shift Training:

1. Posted Schedule:

To be displayed in conspicuous locations and shall show:

Shifts on Training Schedule

Dates of lectures and the subject matter

Dates of procedure review and procedures to be discussed.

Dates of discussion sessions and the topics to be discussed.

Dates of scheduled examinations.

Multiple sessions will be required and the schedule shall be posted sufficiently in advance to make the schedule arrangements necessary to allow licensees to attend a session.

Completed schedules shall be kept in the requalification program file maintained in Document Control.

2. Attendance Records:

The lecturer or discussion leader shall maintain a record of attendance. Multiple scheduling of sessions should assist in assuring that all licensed operators can attend. Where circumstances cause an absence, the necessity of make up shall be determined by the Training Supervisor. Written examinations shall not be missed. The Attendance Record is to be kept in the Requalification Program File.

3. Written Examinations:

The questions, together with the answers for examinations on lecture topics and the yearly OP, SOP examination together with the grades made by each licensee shall be kept in the Requalification Program File.

4. Additional Training:

Where results of written examinations and evaluations indicate the need, study topics shall be assigned, tutoring shall be given and an examination formulated to test for acceptable knowledge. A resume and the grade achieved shall be placed in the licensee's file maintained in Document Control.



7.6 Request for License Renewal:

As the date for license renewal approaches, the Training Supervisor shall ensure that copies are prepared of the documents required to substantiate the license renewal application and forward to the Plant Superintendent-Nuclear or his designee for processing.

8.0 Instructions:8.1 Off Shift Training:8.1.1. Lecture Sessions

1. Shall consist of topics which fall under general headings as listed.
 - a. Theory and principles of operation.
 - b. General and specific plant operating characteristics.
 - c. Plant instrumentation and control systems.
 - d. Plant protection systems.
 - e. Engineered safety systems.
 - f. Normal, off-normal, and emergency operating procedures.
 - g. Radiation control and safety.
 - h. Technical Specifications.
 - i. Applicable portions of Title 10, Chapter I, Code of Federal Regulations.
2. The results of annual examinations shall be analyzed to determine subjects to be emphasized. Additionally, any reactor problems which develop, which would be useful for the operator to be familiar with, shall be discussed and the underlying theory, Nuclear, Mechanical, and Thermodynamics shall be taught to the depth required.
3. A minimum of 100 hours of lecture time will be scheduled for each operating shift. Each shift shall be rotated from their operating shift schedule to the training shift schedule in order to provide off-shift training. Where a licensee has scored less than 80% on a specific category of the annual examination he shall be advised of the lectures at which his attendance is required. The majority of lectures will be given by the Training Department Staff. Where the specialized knowledge or intimate familiarity of a plant staff member or an individual outside the training organization is available or desirable, this individual should give the lecture.
4. A written quiz shall be given after each lecture segment. A grade of less than 80% shall require further study and an additional quiz.

8.1.2 Annual Examination

At the end of the lecture series or at yearly intervals a written examination shall be given to all licensees.

8.1.3 Additional Training

A grade of less than 70% on the annual examination will require that the licensee be placed in an intensive program until the responsible supervisors are satisfied that the licensee is again proficient. Proficiency shall be demonstrated by successfully passing another written examination. The licensee shall be relieved of duties requiring a license until deemed proficient.



8.1.4 Exceptions:

The Training Department Staff shall not be required to take the Annual Examinations. They shall, however, demonstrate and maintain their proficiency by preparing, conducting, and evaluating training programs designed to maintain or increase licensed operators proficiencies during their requalification training.

8.1.5 Discussion Sessions

1. Each licensee shall receive retraining on specified Normal, Off-Normal, and Emergency Procedures, discussed at regularly scheduled off-shift sessions. The Nuclear Plant Supervisor in charge of each shift may either lead the discussion or appoint a member of his shift to lead. The control room mock-up may be used to assist in review. For certain procedures a walk-through may be specified.
2. Additional discussion sessions on equipment operation, changes or modifications and specified reportable occurrences may be held as necessary. Leaders for these sessions shall be individuals well versed in the topic.
3. A minimum of 60 hours shall be scheduled for off-shift discussion sessions. Every effort shall be made to have licensees attend these discussion sessions. As a minimum each licensee shall be required to review specified Normal, Off-Normal, and Emergency Procedures.

8.2 On-Shift Training

8.2.1. Reactivity Changes

All licensees, within their two year cycle shall perform or direct a minimum of 10 reactivity changes. Simulated reactivity changes at an approved simulator facility are acceptable. Refer to Figure 2 for detailed instructions.

8.2.2. Training Report

Training Report Cover Letters shall accompany documents distributed pursuant to Section 7.1 above. Each shift operator should review and initial the Cover Letter acknowledgement section within 14 days of the posting. See Figures 1A and 1B for details.

8.2.3. Performance Evaluations

To determine each licensee's understanding of plant equipment, procedures, and his competency, evaluations of his performance during oral walk throughs or actual off-normal/emergency situations will be made. A competent individual from the plant staff is to perform the evaluation. As off-normal/emergency situations occur the Nuclear Plant Supervisor in charge of the shift shall be requested to make evaluations for licensees on his shift. If an evaluation indicates unsatisfactory performance, immediate action shall be taken to upgrade performance by special training sessions followed by a re-evaluation. Refer to Figure 3.

8.2.4 Off-Site Licensee's

1. Each off-site licensee shall participate fully in the Licensed Operator Requalification Program. In addition, each off-site licensee shall stand periodic control room watches in order to maintain his proficiency as a watch stander. The minimum requirement is 8 hours of watch standing within any three month period.
2. Periods exceeding 4 months without actively performing the functions of a licensed operator shall require a demonstration of competency prior to resuming license activities by passing an oral examination. To the extent practicable, the licensee is to stand the watch when major evolutions are taking place. Refer to Figure 4.



YEAR: 19__

PAGE ___ of ___

WEEK: _____ (1-13)

TURKEY POINT PLANT
ON-SHIFT
LICENSED OPERATORS

QUARTER:

- 1st. (JAN-MAR)
- 2nd. (APR-JUN)
- 3rd. (JUL-SEP)
- 4th. (OCT-DEC)

TRAINING REPORT COVER LETTER

- Item Identification Number:
- 1- Plant Change/Modification
 - 2- Reportable Occurrence
 - 3- FSAR Supplement
 - 4- Operating License Amendment
(Technical Specification Change)
 - 5- Operating Procedure Change
 - 6- OTHER

ITEMS: _____

I have reviewed and discussed the data furnished by this cover letter, and have so indicated by initialling below.

NAME	INITIALS/DATE	NAME	INITIALS/DATE
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NOTE TO LICENSEE:
PLEASE REVIEW AND ACKNOWLEDGE THE CHANGES IDENTIFIED ON THIS COVER LETTER WITHIN 14 DAYS AFTER THIS TRAINING REPORT IS POSTED.



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FLORIDA POWER AND LIGHT COMPANY
TURKEY POINT UNITS 3 AND 4
LOG OF REACTIVITY CHANGES

Sheet _____ of _____

AP 0301
 Figure 2
 PAGE 10

8/23/76

Name _____ Your two year cycle begins _____
 Position _____ ends _____

INSTRUCTIONS

1. During your two year cycle perform (as OP), direct (as SOP) and record on this log a combination of at least ten reactivity changes, with no more than four of a specific type shown in 4. below.
2. Sixty days prior to the end of cycle present this log to the Training Supervisor for review.
3. Simulated reactivity changes at designated facilities are acceptable. Take a blank copy of this log with you when reporting to a simulator.
4. Examples of acceptable reactivity changes:
 - a. Startup to criticality, pull to Nuclear Heat.
 - b. Unit Shutdown, Normal or Trip, from power.
 - c. Manual Control of Steam Generator levels during unit Startup.
 - d. Boration or Dilution.
 - e. Manipulator crane operation during refueling.
 - f. Load change >10% rods on manual, during startup or shutdown.
 - g. Load change >10% following xenon with auto rod control and boration/dilution for a minimum of four hours.

DATE	Reactivity change performed - give sufficient detail to describe operation, draw line to separate each change.	Signed by PTP Supv. or simulator instructor.



2 2 2

FLORIDA POWER AND LIGHT COMPANY
 TURKEY POINT UNITS 3 AND 4
PERFORMANCE EVALUATION - OFF-NORMAL & EMERGENCY PROCEDURES

Name _____

Two Year Cycle Begins _____

Position _____

Ends _____

INSTRUCTIONS

1. During the two year cycle, the Training Supervisor will:
 - a. Appoint competent examiners to conduct oral evaluations for simulated conditions.
 - b. Request the shift supervisor to prepare an evaluation of performance during actual off-normal/emergency conditions.
 - c. The Training Coordinator shall be responsible for completion, within the two year cycle of evaluations as listed.

Mandatory: OP 20001, 20002, 20003, 20005, 20006, 0208.1, 1008.2, 1008.3, 1508.2, 5108.1, 5508.1 and Annunciator.
 List - At least ten targets picked at random.
 At least six: OP 1008.4, 1008.6, 1108.1, 1208.2, 1608.1, 2608.1, 2608.2, 3108.2, 3108.1, 3408.1, 10308.1,
 11108.1, 11208.1, 12108, 12208, 12308, 15608.1, 16008.1, 16008.2.

Make Comments Under Columns as Pertinent, Add Any Other Comments Required

OP # DATE, EXAMINER SIGN	KNOWS ANN. TO BE EXPECTED	KNOWS AUTO ACTIONS AND REASONS FOR	KNOWS IMMEDIATE OPERATOR ACTIONS AND REASONS FOR	DISPLAYS KNOW-HOW IN DOING ACTUAL OR SIMULATED CONTROL ACTIONS	TALK THRU ENTIRE PROCEDURE - DISPLAYS UNDERSTANDING	KNOWS RELATED TECH SPECS	PASS FAIL - RE-EXAM REQUIRED



