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(TEMPORARY FORM)

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ACKNOWLEDGED

PLANT NAME: Oconee 1, 2, & 3

ENCLOSURES:

Information concerning the Oconee Operator
Licensing Program.....

FOR ACTION/INFORMATION 6-6-75 ehf

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DUKE POWER COMPANY

POWER BUILDING

422 SOUTH CHURCH STREET, CHARLOTTE, N. C. 28201

A. C. THIES
SENIOR VICE PRESIDENT
PRODUCTION AND TRANSMISSION

P. O. Box 2178

June 2, 1975



Mr. Angelo Giambusso, Director
Division of Reactor Licensing
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Re: Oconee Nuclear Station
Docket Nos. 50-269, -270, -287

Dear Mr. Giambusso:

Submitted herewith for your information is the Oconee Operator
Licensing Program.

Very truly yours,

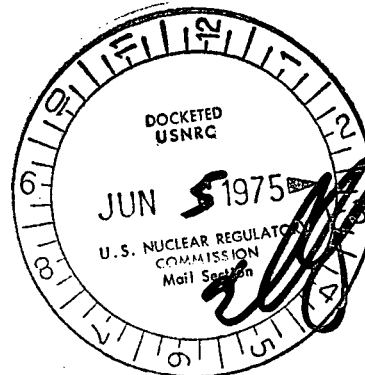
A handwritten signature in cursive script, appearing to read "A. C. Thies".

A. C. Thies

ACT:vr

Attachment

REGULATORY DOCKET FILE COPY



6131

DUKE POWER COMPANY

OCONEE NUCLEAR STATION OPERATOR LICENSING PROGRAM

1.0 INTRODUCTION

Operator license training is a requirement of 10 CFR 55. The Operator Licensing Program for Oconee Nuclear Station is designed to provide the trainee with the necessary knowledge and training to become a competent operator. This program will be conducted on a continuing basis as the needs for replacement training demand. This program will include the use of lectures, on-the-job training, simulator training and audit examinations. The program will be implemented so as to minimize scheduling difficulties that will be incurred by site management.

2.0 DEFINITION

Reactivity Change

An operator trainee that performs five reactivity changes from those listed below in accordance with Section 5.2, License Training Programs, Subsection 5.2.1.d), meets the requirements of 10 CFR 55, Appendix B.

- (a) Critical approach from subcritical on source range instrumentation to critical at the point of adding heat on the intermediate range instrumentation.
- (b) Any power level change (increase or decrease) of 10 percent of rated power or greater with control rods in manual.
- (c) Reactor shutdown from critical at 15 percent of rated power to subcritical, shutdown on source range instrumentation.
- (d) Boration or deboration during critical operation.
- (e) Operation of refueling bridge to change core geometry during refueling.

3.0 EDUCATIONAL REQUIREMENTS

The minimum educational requirements for operator license trainees will be in accordance with Section 4.5 of ANSI 18.1-1971.

4.0 SCOPE

The range of instruction provided for operator training includes complete training for personnel of various initial entry experience levels.

- (a) Experienced personnel previously assigned to a nuclear or fossil station or military nuclear trained personnel.
- (b) Technical school trained with cooperative education on-the-job training.
- (c) Engineering graduates.
- (d) Non-trained and non-experienced personnel.

The initial entry level which an employee is admitted into the operator training program shall be determined after a conservative evaluation of the employee's past experience and level of understanding.

5.0 TRAINING OPERATIONAL DESCRIPTION

Training and qualification of operators consists of classroom experience, on-the-job performance tasks, simulator training and audit evaluation. Formal training consists of live lectures, taped lectures and self-study assignments.

5.1 ORIENTATION TRAINING

The screening of new employees is done at the station or General Office by means of pre-employment tests and interviews. Pre-employment tests are used as a selection measurement tool based on job success performance criteria for the selection of new employees. When a prospective employee is selected for employment and hired, he is given orientation training which introduces him to the Company, Company and Station policy, nuclear energy, health physics, safety, basic quality assurance policies and procedures and basic system configurations. Qualification requirements for restricted area access are met during orientation training. This phase of training encompasses 24 hours of live and taped lectures.

5.2 LICENSE TRAINING PROGRAMS

5.2.1 Reactor Operator License Training Program

A course consisting of:

- (a) Lectures and quizzes covering:

PRINCIPLES OF REACTOR OPERATION (80 hours - 2 weeks)

Definitions and Terms Review

Fission Process

Neutron Multiplication (K_{eff} and 6 factors)

Reactivity Calculations

Delayed ${}_{0}N^1$ Effects

Coefficients: Temperature, Void, Pressure, Doppler

Source and Source Effects

Poisons: Xenon, Samarium, Rods, Boron

- Control Rod Effects
- Reactor Kinetics
- Criticality and Power Production
- Xenon Oscillations
- Fuel Densification
- Core Performance: HCF, KW/FT, DNB, DNBR

FEATURES OF FACILITY DESIGN (80 hours - 2 weeks)

- Reactor Coolant System
 - Core Design and Construction
 - Steam Generator Design and Construction
 - Pressurizer Design
 - Reactor Coolant Pump Design
 - Control Rod Design
 - Incore and Excore Instrumentation Design
- Secondary Steam System Design
- Turbine Generator Theory and Design
- Radioactive Waste Systems Design and Operation
- Fuel Handling Equipment Design and Operation
- Electric Plant Design and Operation

GENERAL OPERATING CHARACTERISTICS (40 hours - 1 week)

- Reactor Coolant System Transient Behavior
- Steam Generator Transient Behavior
- Reactor Control System Response
- Operating Limitations
- Chemistry
- Technical Specifications

INSTRUMENT AND CONTROL SYSTEMS (120 hours - 3 weeks)

- Control Rod Drive System
- Reactor Coolant System Instrumentation
- Nuclear Instrumentation
- Integrated Control System

SAFETY AND EMERGENCY SYSTEMS (80 hours - 2 weeks)

- Electrical System Distribution and Logic
- Engineered Safeguards Systems and Logic
- Reactor Protective System and Logic

STANDARD AND EMERGENCY PROCEDURES (80 hours - 2 weeks)

- Administrative Procedures and Standing Orders
- Operating Procedures
- Emergency Procedures
- Technical Specifications
- Facility Incident Reports

RADIATION AND SAFETY (40 hours - 1 week)

- Definitions and Terms Review
- Reactions: Alpha, Beta, Gamma, Neutron
- Biological Effects
- Exposure Controls
- Exposure Limits: External, Internal
- Calculations: Time, Distance, Shielding
- Protective Clothing
- Contamination: Surface, Airborne
- Personnel Monitoring
- Areas: Restricted, Radiation, High Radiation
- Radiation Work Permits
- Portable Survey Instruments
- Basic Health Physics Procedures

Note: The above-described classroom lecture schedule is designed to meet the needs of all but the non-trained and non-experienced personnel. (Basic mathematics and basic nuclear physics subjects would be taught to those personnel as a prerequisite to entry into the program.) Equivalency for previous training and experience will be granted on a case-by-case basis to determine applicable sectors for bypassing.

(b) In-Plant Experience

The on-the-job training phase shall assure that the license trainee will meet or exceed the requirements of ANSI 18.1-1971, Section 4.5.1.

The program will include a minimum of three months which will require the manipulation of nuclear power plant controls during day-to-day operation. This phase of training will include the performance of the Task Inventory checklists. The operator trainee will perform the Basic I, the Basic II and marked portions (*) of the Advanced I Task Inventory checklists during his in-plant training. These tasks will be documented by the trainee and an evaluation performed by the trainees' Shift Supervisor. These task inventories and evaluations will be filed in the operator trainee's training file. These task inventories are included as Enclosure 7.1, 7.2, and 7.3.

(c) Reactivity Changes

The trainee during his on-the-job training phase will perform five reactivity changes as described in Section 2.0, Definitions, with no more than four being any combination of Items 2.b), 2.d), and 2.e). Reactivity changes will be documented in the training files.

(d) Simulator Training

All trainees will participate in a one-week (40 hours) simulator training course, consisting of 20 hours classroom and 20 hours simulator, at an approved facility such as the B&W simulator Lynchburg, Virginia and obtain certification attesting to this ability to:

- (1) Manipulate the controls and keep the reactor under control during a reactor trip
- (2) Predict instrument response and use the instrumentation during a reactor startup
- (3) Follow the facility startup procedures
- (4) Explain alarms and annunciators that may occur during this operation

Note: The above certification need not be obtained if the NRC licensing examination will include a reactor startup for the trainee during his operational portion of the NRC licensing examination.

(e) Review and Evaluation

Following the above portions of the training program, a period of a minimum of 40 hours will be utilized for review preparation for licensing examination and an audit examination with evaluation of trainees ability to successfully perform for a licensing examination. Evaluation and results of audit examination will be documented in the trainee's training file. If evaluation by the training staff and management determines a need for additional training prior to NRC licensing examination of a degree inconsistent with remaining time to examination date, a reassignment for future license training will be made.

5.2.2 Senior Reactor Operator Training Program

- (a) For a senior license candidate without a previous Reactor Operator License on this facility, the course of instruction will encompass all areas of Section 5.2.1 and in addition will include approximately 80 hours of instruction with emphasis on the following:

- (1) Bases of Technical Specifications
- (2) Emergency Plan
- (3) Specific Operating Characteristics of Plant
- (4) Fuel Handling
- (5) Handling and Disposal of Radioactive Materials
- (6) Facility Incident Reports

Note: Items 1-6 will be approached from a supervisory aspect.

- (b) For a senior license candidate with a previous Reactor Operator License on this facility, the course of instruction will consist of the following:

- (1) Reactor Theory (32-48 hours*)
- (2) Handling, Disposal and Hazards of Radioactive Materials (32-40 hours*)
- (3) Specific Operating Characteristics (32-40 hours*)
- (4) Fuel Handling and Core Parameters (16-32 hours*)
- (5) Instrumentation and Control Systems (24-40 hours*)

- (6) Administrative Procedures, Technical Specifications, Emergency Procedures and Operating Procedures (40-56 hours*)
- (7) Incident Report Evaluation and Review (16-32 hours*)

*Note: Course length determined by experience and depth of knowledge of candidates.

6.0 RECORDS

- 6.1 Training records for each trainee will be maintained and shall contain the following:

- (a) Examination results - Unsatisfactory will include specifics
- (b) On-the-job training documentation
- (c) Records of reactivity changes
- (d) Evaluations made by training staff
- (e) Evaluations made by simulator staff*
- (f) Startup certification
- (g) Documentation of training participation

*Where Applicable

- 6.2 Training records will be retained for a minimum of six years.

7.0 ENCLOSURES

- 7.1 TASK INVENTORY (OJT) FORM TSR 6 BASIC I
- 7.2 TASK INVENTORY (OJT) FORM TSR 6 BASIC II
- 7.3 TASK INVENTORY (OJT) FORM TSR 6 ADVANCED I

TSR-6

ENCLOSURE 7.1

TASK INVENTORY

DATE _____

NAME _____ NUMBER _____ OPERATIONS _____

EMPLOYEE (E) CHECK: O-OFTEN, S-SELDOM, N-NEVER

SUPERVISOR (S&K) "SEE OTHER SIDE"

BASIC I

- | | E | S | K |
|----------------------------------------------------------------------------------|---|---|---|
| 1. Assist to startup and shutdown of Aux. Boiler. | | | |
| 2. Assist to establishing steam seals and vacuum on main and Feedwater Turbines. | | | |
| 3. Assist to startup, operate and test main generator Hydrogen Seal Oil System. | | | |
| 4. Assist to purge and fill main generator gas space. | | | |
| 5. Assist to startup, operate and test main turbine Lube Oil System. | | | |
| 6. Under direction, rack in and out switch gear breakers. | | | |
| 7. Assist to monitor station transformers for abnormal conditions. | | | |
| 8. Clean, lineup and operate purifier on all lube oil systems. | | | |
| 9. Assist to make system valve lineups using print and procedure. | | | |
| 10. Collect, count, replenish balls and operate Amer-Tap System. | | | |
| 11. Assist to perform routine Fire Protection System tests. | | | |
| 12. Assist to operate the Misc. Waste Evaporator. | | | |
| 13. Assist to operate the R.C. Bleed Evaporator. | | | |
| 14. Lubricate equipment. | | | |
| 15. Assist to receive, inspect and store new fuel. | | | |
| 16. Under direction, operate fuel handling bridges and tools. | | | |
| 17. Assist in sluicing spent resins. | | | |
| 18. Under direction, makeout and place Red, White and Orange Tags. | | | |
| 19. Assist to operate Stator Cooling System. | | | |
| 20. Place air ejectors in and out of service. | | | |
| 21. Receive bottle gas shipments (N ₂ , H ₂ , etc.) | | | |
| 22. Monitor operating equipment and make minor adjustments. | | | |
| 23. Assist in cutting in and out Heaters and Drains. | | | |
| 24. Read, implement and follow Operating and Periodic Test Procedures. | | | |
| 25. Report abnormal conditions to CRO and SS. | | | |
| 26. Under direction, select and use portable HP instruments. | | | |
| 27. Read and follow Standing Orders and Admin. Procedures. | | | |
| 28. Assist to perform turbine tests. | | | |
| 29. Assist to makeup borated water to CFT and CBAST. | | | |
| 30. Backwash and clean Service Water Strainers. | | | |

- | | E | S | K |
|------------------------------------------------------------------------------------|---|---|---|
| 31. Assist to fill, vent, and drain RCS. | | | |
| 32. Under direction, adjust packing on valves and pumps. | | | |
| 33. Assist to setup the S/G Blowdown System. | | | |
| 34. Assist to startup, operate and shutdown chiller (A/C) and ventilation systems. | | | |
| 35. Under direction, use operator program in plant computer. | | | |
| 36. Assist to transfer and/or monitor inverters and battery chargers. | | | |
| 37. Assist to perform substation switching. | | | |
| 38. Assist to perform Transfer Trip and Relay Test. | | | |

ENCLOSURE 7.1 (Continued)

DEFINITION OF LEVELS OF SKILL. The following are defined for use as a ready reference in assessing the degree of skill attained on each task.

Skill Level Code	Description of Proficiency Levels
A - +	<u>Extremely limited.</u> Possesses a limited knowledge of this subject or task; does not need to apply the information received.
B - +	<u>Partially Proficient.</u> Understands the subject or task to be done; can perform part of the task without supervision.
C - +	<u>Competent.</u> Able to perform "on his own" unless special problems are encountered; only a general check of the work is required by the supervisor.
D - +	<u>Highly Skilled.</u> Performs skillfully and efficiently; capable of supervising others and applying correct procedures and techniques to new and related tasks.

DEFINITION OF LEVELS OF KNOWLEDGE. The following knowledge levels are defined as a ready reference for assessing the degree of learning possessed on each task. The knowledge level code is used as a convenient means of recording the knowledge level attained and provides the criteria from which training programs can be scheduled.

Knowledge Level Code	Description of the Knowledge
1	<u>Introductory Knowledge</u> - Possesses knowledge of terms, general functions and limited facts
2	<u>Basic Understanding</u> - Possesses an understanding of basic principles and procedures
3	<u>Working Knowledge</u> - Understands the application of principles and procedures to operational situations.

TSR-6

ENCLOSURE 7.2

TASK INVENTORY

DATE _____

NAME _____ NUMBER _____ OPERATIONS

EMPLOYEE (E) CHECK: O-OFTEN S-SELDOM N-NEVER

SUPERVISOR(S&K) "SEE OTHER SIDE"

BASIC II

- | | E | S | K |
|--------------------------------------------------------------------------------------------------|---|---|---|
| 1. Startup, operate and shutdown Auxiliary Boiler. | | | |
| 2. Establish steam seals and vacuum on all turbines. | | | |
| 3. Purge and fill main generator gas space. | | | |
| 4. Startup, operate and test main lube oil system. | | | |
| 5. Startup, operate and test Hydrogen Seal Oil System. | | | |
| 6. Rack in and out 7KV, 4KV, etc. switchgear breaker. | | | |
| 7. Monitor station transformers for abnormal conditions. | | | |
| 8. Clean, lineup and operate purifier on all lube oil systems. | | | |
| 9. Make system valve lineups using print and procedure. | | | |
| 10. Collect and replenish balls and operate Amer-Tap System. | | | |
| 11. Operate and test Fire Protection System. | | | |
| 12. Startup, operate and shutdown Mis. Waste Evaporator. | | | |
| 13. Startup, operate and shutdown R.C. Bleed Evaporator. | | | |
| 14. Perform required lubrication of equipment. | | | |
| 15. Receive, inspect and store new fuel. | | | |
| 16. Operate fuel handling bridges and tools. | | | |
| 17. Sluice spent resins from demineralizers. | | | |
| 18. Make out, place and remove Red, White, and Orange Tags as required for oper. or maintenance. | | | |
| 19. Startup, operate and shutdown Stator Cooling System. | | | |
| 20. Place air ejectors in and out of service. | | | |
| 21. Receive bottle gas shipments (H ₂ , N ₂ , etc.) | | | |
| 22. Monitor and adjust operating equipment and correct abnormal conditions. | | | |
| 23. Provide instruction and training for others. | | | |
| 24. Cut in and out Heaters and Drains. | | | |
| 25. Implement and accurately document Operating and Periodic Test Procedures. | | | |
| 26. Recognize and report abnormal conditions to the CRO and SS. | | | |
| 27. Select and use portable HP instruments. | | | |
| 28. Read and follow Standing Orders and Admin. Procedures. | | | |
| 29. Perform routine valve and turbine tests. | | | |
| 30. Makeup borated water to CFT and CBAST. | | | |

- | | E | S | K |
|-------------------------------------------------------------------------|---|---|---|
| 31. Backwash and clean Service Water Strainers. | | | |
| 32. Fill, vent and drain Reactor Coolant System. | | | |
| 33. Adjust packing on valves and pumps. | | | |
| 34. Setup Steam Generator Blowdown System. | | | |
| 35. Startup, operate and shutdown chiller (A/C) and ventilation system. | | | |
| 36. Fill out proposed procedure change sheets. | | | |
| 37. Use all Operator Programs on plant Computer. | | | |
| 38. Assist in Control Room functions, under CRO direction. | | | |
| 39. Transfer and/or monitor inverters and battery chargers. | | | |
| 40. Perform substation switching. | | | |
| 41. Perform Transfer Trip and Relay Test. | | | |

ENCLOSURE 7.2 (Continued)

DEFINITION OF LEVELS OF SKILL. The following are defined for use as a ready reference in assessing the degree of skill attained on each task.

Skill Level Code	Description of Proficiency Levels
A - +	<u>Extremely limited.</u> Possesses a limited knowledge of this subject or task; does not need to apply the information received.
B - +	<u>Partially Proficient.</u> Understands the subject or task to be done; can perform part of the task without supervision.
C - +	<u>Competent.</u> Able to perform "on his own" unless special problems are encountered; only a general check of the work is required by the supervisor.
D - +	<u>Highly Skilled.</u> Performs skillfully and efficiently; capable of supervising others and applying correct procedures and techniques to new and related tasks.

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3	<u>Working Knowledge</u> - Understands the application of principles and procedures to operational situations.

TSR-6

TASK INVENTORY

DATE _____

NAME _____ NUMBER _____ OPERATIONS

EMPLOYEE (E) CHECK: O-OFTEN, S-SELDOM, N-NEVER

SUPERVISOR (S&K) "SEE OTHER SIDE"

ADVANCED I

- | | E | S | K |
|-----------------------------------------------------------------------------------------------|---|---|---|
| 1. Assist in taking unit from cold to hot shutdown. | | | |
| * 2. Assist in calculating boron concentration and ECP. | | | |
| * 3. Assist in Reactor startup (hot shutdown to nuclear heat). | | | |
| 4. Assist in taking unit from nuclear heat to 15% power with generator on line. | | | |
| * 5. Assist in calculating reactivity balance to determine shutdown margin. | | | |
| 6. Assist in cold turbine startup to generator operation. | | | |
| * 7. Assist to borate and deborate Reactor Coolant System. | | | |
| * 8. Read, implement and follow operating procedures. | | | |
| * 9. Operate control stations in the hand mode (RX, FDW, TG, etc.) | | | |
| * 10. Assist in unit shutdown from >15% to hot shutdown. | | | |
| * 11. Make entries and maintain Control Room Log, under direction. | | | |
| * 12. Monitor Control Room indicators and charts. | | | |
| * 13. Acknowledge and initiate action on abnormally trending parameters, under direction. | | | |
| * 14. Assist to initiate, make and complete a liquid waste release. | | | |
| * 15. Acknowledge and initiate action for alarm conditions. | | | |
| * 16. Assist to initiate, make and complete a Reactor Building purge or waste gas release. | | | |
| * 17. Assist to evaluate and follow-up on RIA alarms. | | | |
| * 18. Assist to startup secondary systems and establish vacuum. | | | |
| * 19. Assist to establish seals, start and stop RCP's. | | | |
| * 20. Assist to operate Electrical System; startup Keowee. | | | |
| 21. Assist in monitoring nuclear instruments during refueling. | | | |
| * 22. Assist in recognizing and taking corrective action on out of spec. chemistry. | | | |
| * 23. Perform Control Room routine tests, under direction (Periodic Instrument Surveillance). | | | |
| * 24. Assist in reporting operating information to Dispatcher. | | | |
| * 25. Assist in startup and placing in operation Feedwater Pump. | | | |
| * 26. Assist to perform Primary/Secondary heat balance. | | | |

- | | E | S | K |
|--------------------------------------------------------------------------------------|---|---|---|
| 27. Monitor and calculate Quadrant Power Tilt and power imbalance. | | | |
| 28. Assist in placing Heater Drain Pumps in operation. | | | |
| 29. Read and follow Standing Order and Admin. Procedure. | | | |
| * 30. Use plant computer (all operator programs). | | | |
| 31. Assist in performing plant cooldown from hot condition to refueling temperature. | | | |
| 32. Use portable HP instruments. | | | |
| * 33. Provide instruction and training for others. | | | |
| 34. Recognize and report abnormal conditions to the CRO and SS. | | | |

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ENCLOSURE 7.3 (Continued)

DEFINITION OF LEVELS OF SKILL. The following are defined for use as a ready reference in assessing the degree of skill attained on each task.

Skill Level Code	Description of Proficiency Levels
A - +	<u>Extremely limited.</u> Possesses a limited knowledge of this subject or task; does not need to apply the information received.
B - +	<u>Partially Proficient.</u> Understands the subject or task to be done; can perform part of the task without supervision.
C - +	<u>Competent.</u> Able to perform "on his own" unless special problems are encountered; only a general check of the work is required by the supervisor.
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