

2-21-75

DUKE POWER COMPANY
OCONEE NUCLEAR STATION
REQUALIFICATION PROGRAM
FOR
NRC LICENSED PERSONNEL

DECEMBER 11, 1973

Revised

July 3, 1974
January 7, 1975
February 21, 1975

7912040 702

Table of Contents

<u>Section</u>	<u>Page</u>
1.0 <u>Introduction</u>	1
2.0 <u>Definitions</u>	1
2.1 Reactivity Change	1
2.2 Licensed Operator	2
2.3 Backup Licensee	2
2.4 Training Supervisor	2
3.0 <u>Examinations/Lectures</u>	3
4.0 <u>On-The-Job Training</u>	4
5.0 <u>Evaluations</u>	6
6.0 <u>Records</u>	7

DUKE POWER COMPANY
OCONEE NUCLEAR STATION
REQUALIFICATION PROGRAM
FOR NRC LICENSED PERSONNEL

1.0 Introduction

Recent changes to 10 CFR 55 requires all licensed operators to participate in an approved requalification program. The requalification program for the Oconee Nuclear Station is designed to maintain and demonstrate the continued competence of all licensed operators and senior operators. This program will be conducted on an annual basis and will include a comprehensive exam, formal requalification lectures, on-the-job training and simulator operation. The program will be implemented so as to minimize scheduling difficulties that will be incurred by site management.

2.0 Definitions

2.1 Reactivity Change

A licensed Reactor Operator that performs, or a licensed Senior Reactor Operator that performs or directs, ten (10) reactivity changes from those listed below, in accordance with Section 4.0, On-The-Job Training, Subsection 4.2, meets the requirements of 10 CFR 55, Appendix A, Section 3(a).

- 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% of rated power or greater with control rods in manual.
- c) Reactor shutdown from critical at 15% 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.

2.2 Licensed Operator

Individuals who maintain Operator or Senior Operator licenses and who are actively and extensively engaged in the day-to-day operation of the plant.

Any licensed operator who has not been actively performing the functions of an operator or senior operator for a period of four months or longer, shall, prior to resuming licensed activities, participate in an appropriate requalification program pursuant to 10CFR 55.31(e).

2.3 Backup Licensee

Individuals who maintain Operator or Senior Operator licenses for the purpose of providing backup capability to the Operating Staff.

2.4 Training Supervisor

A supervisor normally assigned no other duties except instructing, coordinating, and record keeping for pre-license operator training programs and licensed operator requalification program.

3.0 Examinations/Lectures

Annually, all SRO and RO licensed personnel will take a written examination which closely parallels the NRC written examination. The examination will be given in three segments approximately three months apart following the lecture series for that segment.

Any operator who scores less than 70 percent overall on the Annual Requalification exam shall be removed from licensed duties and placed in an accelerated requalification program. The individual will be reevaluated by a comprehensive written exam paralleling the annual exam in format and by an oral interview with the Training Supervisor to determine his knowledge level. The results of the oral and written exam will be forwarded to the Operating Superintendent for determination of return to licensed duties.

Requalification lectures are intended to be given on an annual basis for all licensed operators in three segments of approximately 40 hours duration each, corresponding to the segments of the annual exam. The lecture schedule prior to each annual examination segment will be determined based on weak areas shown from preceding annual exam.

Following the completion of all the annual exam segments, requalification lectures will be determined by the results of the annual exam (i.e., categories in which individuals received less than 80 percent). Attendance for all SRO and RO licensed personnel at these lectures will be based on the results of the annual requalification exam (i.e., less than 80 percent on a category requires mandatory attendance at lectures on topics of that category).

Following the completion of each segment of the annual exam, a special individualized study program will be instituted for anyone scoring less than 70 percent on a category to enable the individual to increase his knowledge level for that category in a timely fashion. This program will be in addition to the lectures following completion of all segments of the annual examination but will occur immediately following completion of the segment for which a grade of less than 70 percent was attained. The individualized study program would be no more than five (5) weeks induration and an examination to evaluate the retraining would occur at the completion of the individualized study program. Any individual failing a re-examination of a segment of the annual examination following an individualized study program will be evaluated by the Superintendent of Operations to determine the course of action. This action will be documented in the individual's training record. Periodic written or oral quizzes will be administered throughout the lecture program with a required passing grade of 80%. Lecture attendance will be based on 80% categorical grades from the annual requalification exam.

"Quality Assurance for Operation" is now a topic covered as part of the pre-license training and as such would be considered as a topic for requalification lectures.

Contingency meetings are an integral part of nuclear plant operation and are normally scheduled as the need arises by plant management.

4.0 On-The-Job Training

- 4.1 In order to insure the continued proficiency of licensed operators in meeting all operating situations, on-the-job training will play a major role in the Oconee requalification program. Technical Specifications, Operating Procedures and Emergency Procedures will be reviewed on shift according to a formal schedule. Short oral and/or written quizzes will be used to demonstrate the effectiveness of this review with a passing grade of 80% required. All changes to Operating Procedures, facility design changes and revisions to Technical Specifications will be reviewed on shift also. Documentation of the specified reviews is filed in the individual's training records as per Section 6.0, Records.
- 4.2 All licensed Operators will participate, to the maximum extent possible, in plant evolutions involving reactivity changes. These will include those items defined as reactivity changes in Section 2.0, Definitions. During the two-year license term, a minimum of ten such evolutions shall be conducted by each licensed Operator and either conducted or directed by each licensed Senior Operator with no more than three (3) such evolutions being any combination of Items 2.1(d) and 2.1(e) of Section 2.0, Definitions, Subsection 2.1, Reactivity Change.
- 4.3 All licensed personnel 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, during the two-year license term.
- The B&W simulator is considered the only existing simulator appropriate for use by Oconee personnel in meeting the requirements of Appendix A to 10 CFR Part 55. However, we retain the option to use other simulators that become available in the future and are approved by the NRC for use by Oconee personnel.
- This training will include operation during emergency or abnormal conditions including the following:
- a) Reactor Startup
 - b) 15-100% PWR Maneuver

- c) 100%-15% PWR Maneuver
- d) Power Operations (Manual and Auto)
- e) Plant Shutdown/Cooldown
- f) Reactor Trip
- g) Turbine Trip
- h) Steam Line Rupture
- i) RC System Leaks

4.4 Control manipulations at the simulator will be credited the same as manipulations on the Oconee units.

4.5 Backup licensees will acquire 4 hrs./month on shift assigned the duties of Assistant Shift Supervisor or Assistant Control Operator, which are positions requiring a Senior Operator's and Operator's license respectively, at this facility. The assignment to Assistant Shift Supervisor or Assistant Control Operator will be consistent with the license held by the backup licensees.

5.0 Evaluations

5.1 The performance and competency of Operators and Senior Operators will be evaluated by the annual written exam as well as with personal evaluations from supervisors and training staff personnel.

5.2 Semi-annually each Shift Supervisor will submit a report to the Operating Superintendent, evaluating the performance of each man under his supervision during normal and abnormal operating conditions.

5.3 The performance of Operators and Senior Operators will be evaluated by the simulator training staff following simulator training. Evaluations of personnel will be made by several sources as noted above. The ultimate evaluation will be based on operators performance of his licensed duties at the Oconee Nuclear Station.

5.4 The Operating Superintendent will review these reports semiannually. On the basis of the evaluations, the Operating Superintendent can recommend special training classes and removal from shift duties if necessary. Prior to the license renewal date, the Operating Superintendent will review each Operator's training record. Based on this evaluation he will make recommendations for license renewal or specialized training prior to license renewal.

6.0 Records

6.1 Training records for each Operator and Senior Operator will be maintained and shall contain the following:

- a) Copies of the graded annual exam.
- b) Re-examinations given after requalification lectures.
- c) Evaluations made by Supervisors.
- d) Evaluations made by simulator personnel.
- e) Documentation of all training participation.
- f) Any miscellaneous quizzes given by the training staff.
- g) Records of the number and type of reactivity changes.

6.2 Training records will be retained for a minimum of six (6) years.