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 DENTON,H.R. Office of Nuclear Reactor Regulation, Director
 STOLZ,J.F. Operating Reactors Branch 4

SUBJECT: Forwards shift technical advisor program, per 840120
 commitment. Program will not be implemented until 850901 due
 to scheduling problems.

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 TITLE: OR Submittal: TMI Action Plan Rgmt NUREG-0737 & NUREG-0660

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May 21, 1984

Mr. Harold R. Denton, Director
Office of Nuclear Reactor Regulation
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Attention: Mr. John F. Stolz, Chief
Operating Reactors Branch No. 4

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

Dear Sir:

By letter dated January 20, 1984, Duke Power committed to provide a Shift Technical Advisor program document which reflects the new requirements that had been provided in an NRC letter dated November 28, 1983. Attached please find the program description.

As a result of scheduling problems, the requisite number of qualified personnel will not be available by the previously committed implementation date. Accordingly, the implementation date when this program will be in place is September 1, 1985, following completion of the SRO class in August 1985.

Very truly yours,

H. B. Tucker / BT

Hal B. Tucker

RLG/php

Attachment

cc: Mr. James P. O'Reilly, Regional Administrator
U. S. Nuclear Regulatory Commission
Region II
101 Marietta Street, NW, Suite 2900
Atlanta, Georgia 30303

Mr. J. C. Bryant
NRC Resident Inspector
Oconee Nuclear Station

Ms. Helen Nicolaras
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Duke Power Company
Oconee Nuclear Station

Shift Technical Advisor Program

DUKE POWER COMPANY
OCONEE NUCLEAR STATION
SHIFT TECHNICAL ADVISOR PROGRAM

1.0 Purpose

This document describes the Shift Technical Advisor (STA) Program at Oconee. This program incorporates the requirements of NUREG-0737, Item I.S.1.1.

The STA function will be carried out within the framework of a Shift Engineer position. The Shift Engineer will provide additional on-shift capability for evaluation and assessment of off-normal events and normal transients. During normal plant operation, the Shift Engineer will have other duties and responsibilities. Though assigned other duties and responsibilities, the Shift Engineer will always be available to perform the function of assessing any unusual conditions such as a transient or accident and to advise the Shift Supervisor of any appropriate actions.

The review and evaluation of Operation Experience is currently being handled by Duke Power Company's Nuclear Safety Assurance Group and will not be performed by the Shift Engineer.

2.0 Qualifications and Training

A Shift Engineer shall have a minimum of a Bachelor's Degree or equivalent in a scientific or engineer discipline. A Professional Engineer's Licensee is considered to be equivalent to a Bachelor's Degree in an Engineering Discipline.

The Shift Engineer shall hold a Senior Reactor Operator License. The specific areas of knowledge that must be developed and/or kept current through an on-going Shift Technical Advisor Training Program are:

- thermodynamic requirements for core protection
- reactor control
- reactor operating and safety limits
- operating procedures and guidelines for off-normal transients
- Reactor Protective System (RPS), Engineered Safeguards System (ES), and Integrated Control System (ICS) function and design
- familiarity with control room operating conditions
- familiarity with functions of various groups within the station organization

Training will be accomplished as follows:

- participation in Duke operator training programs, including simulator training
- selective participation in training for other station groups

3.0 Organization

The Shift Engineer will be the responsibility of the Integrated Scheduling Group, which reports to the Station Manager. The Shift Engineer will report directly to the Integrated Scheduling Superintendent.

The Shift Engineer position for normal and off-normal operation is independent of the Station Operations Group.

4.0 General Duties

- (1) During assigned tour of duty be cognizant of plant and equipment status.
- (2) Maintain independence from normal plant operations as necessary to make objective evaluations of plant operations and to advise or assist plant supervision in correcting conditions that may compromise the safety of operations.
- (3) Be readily available to provide appropriate assistance to the normal shift complement.

5.0 Responsibilities

- (1) During transients and accidents, compare existing critical parameters, (i.e. neutron power level; reactor coolant system level, pressure and temperature; containment pressure, temperature, humidity and radiation level; and plant radiation levels) with those predicted in the Plant Transient and Accident Analysis, to ascertain whether the plant is responding to the incident as predicted.

Report any abnormalities to the Shift Supervisor immediately and provide assistance in formulating a plan for appropriate corrective action.

- (2) Make a qualitative assessment of plant parameters during and following an accident in order to ascertain whether core damage has occurred.
- (3) During emergencies be observant of critical parameters, ascertain that there is adequate core cooling including availability of a heat sink for the coolant system, and in the event that critical parameters become unavailable due to instrument failure, perform calculations or through other means determine approximate values for the parameters in question.

6.0 Accountability

The Shift Engineer is accountable for the following end results:

- (1) Contributes to maximizing safety of operations by independently observing plant status and advising shift supervision of conditions that could compromise plant safety.
- (2) Contributes to maximizing plant safety during transient or accident situations by independently assessing plant conditions and by providing the technical assistance necessary to mitigate the incident and minimize the effect on personnel, the environment, and plant equipment.