

DUKE POWER COMPANY

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HAL B. TUCKER

VICE PRESIDENT
NUCLEAR PRODUCTION

TELEPHONE
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February 10, 1984

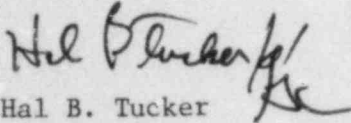
Mr. James P. O'Reilly, Regional Administrator
U. S. Nuclear Regulatory Commission
Region II
101 Marietta Street, NW, Suite 2900
Atlanta, Georgia 30303

Re: Catawba Nuclear Station
Docket Nos. 50-413 and 50-414

Dear Mr. O'Reilly:

As a followup to a January 26, 1984 meeting between Mr. Bruce Wilson of your staff and representatives of Duke Power Company, please find attached revised Catawba FSAR Section 13.2 pages which clarify various aspects of the operator training program. These revised pages will be included in Revision 9 to the FSAR.

Very truly yours,


Hal B. Tucker

RWO/php

Attachment

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

Attention: Ms. E. G. Adensam, Chief
Licensing Branch No. 4

NRC Resident Inspector
Catawba Nuclear Station

Mr. Bruce Wilson
U. S. Nuclear Regulatory Commission
Region II
101 Marietta Street, NW, Suite 2900
Atlanta, Georgia 30303

Mr. Robert Guild, Esq.
Attorney-at-Law
P. O. Box 12097
Charleston, South Carolina 29412

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cc: Palmetto Alliance
2135½ Devine Street
Columbia, South Carolina 29205

Mr. Jesse L. Riley
Carolina Environmental Study Group
854 Henley Place
Charlotte, North Carolina 28207

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(e) Nuclear Fundamentals

This module expands the concepts presented in the Nuclear Preparatory module in order to develop a qualitative and quantitative understanding of reactor operational characteristics. Enhancement of the academic phase is accomplished through operational experience provided by ten reactor startups at the research reactor and/or simulator facility. Reactor primary and secondary systems as well as instrumentation and control systems are presented along with their applications to reactor control and safety and station emergency plans. (6-8 weeks)

(f) Introduction to Systems and Procedures Specific

This module provides academic instruction in the specific systems of the nuclear station. Instruction covers the specific station's design, physical layout and radiation control requirements. Selected instructional material will normally be presented to operations personnel immediately following Nuclear Fundamentals and is conducted at the station. The terminal objective of this training is to provide the nonlicensed nuclear equipment operator with the knowledge level required to perform specific tasks and duties in the station. (5-7 weeks)

(g) Pre-Operational Training

- (1) Cold license Certification training is given to operators who were not previously licensed by the NRC to establish their eligibility to take the NRC Cold License Examination by meeting the nuclear operating experience requirements in 10 CFR 55. 25b. This certification will be accomplished by successful completion of one of the following programs:

- * An NRC approved Cold License Certification Training Program provided by organizations other than Duke Power Company. This program must be performed at a Westinghouse PWR facility.
- * An NRC Approved Cold License Certification Program provided by Duke Power Company. This program will meet or exceed the provisions of the Paul Collins letter dated October 18, 1977 that approves the following program:

Observation Training (4-8 weeks)
Classroom Training (320 hours)
Simulator Training (320 hours)

The classroom instruction covers specific station systems, procedures and operational requirements needed to operate the simulator.

Simulator operations provide the trainee with Control Room experience while observation training exposes the trainee to current operational activities in a nuclear station.

- * Any license candidate who has not completed one of the programs described above will complete three months of observation training at an operating nuclear power plant and participate in Cold License Preparatory Training as described below. Certification will be based on the candidate's performance during an examination prior to the license examination. This examination will consist of a written examination, simulator start-up examination, and plant operating examination.

- (2) Cold License Preparatory Training typically consists of 25 weeks of classroom training and 5 weeks of simulator training which includes 1 week for evaluation. Approximately one half of the simulator training time is used operating the simulator, while the remaining time is used in the classroom preparing for a simulator operations and critiques of previous operations. All Cold License Candidates will participate in this training.

(h) Reactor Operator Hot License Preparatory Training

This training prepares and evaluates the prospective Reactor Operator Licensee Candidate for the NRC examination. It is normally presented to the selected Operations License Candidate and conducted at the Nuclear Steam Station. The instruction includes specific systems and procedures, simulator, OJT and observation training, (total program length is 22 weeks minimum).

Upon completion of this module, trainees have completed training in all topics for Reactor Operator described in 10 CFR 55.21, 10 CFR 55.23, and NUREG-0737.

(i) Senior Operator Hot License Preparatory Training

This training module reviews material covered in the License Preparation Reactor Operator module with emphasis on the following: Basis of Technical Specifications, Emergency Plan, Operating Characteristics, Fuel Handling, Handling and Disposal of Radioactive Waste, Facility Incident Reports, Core Damage Mitigation, and Supervisory Skills (16 weeks minimum). It is normally presented to selected senior operator license candidates and is conducted at the nuclear stations. Upon completion of this module, trainees have completed training in all topics for Senior Reactor Operators described in 10 CFR 55.22, 10 CFR 55.23, and NUREG-0737. This module may be conducted concurrently with the Reactor Operator Hot License Preparatory module.

(j) Simulator

Simulator training is a topic within the Periodic, Cold Certification, and License Preparation Modules. The simulator exercises are appropriately constructed for the level of training required. All license preparation, cold certification and periodic training modules contain the most advanced and demanding simulator exercises.

These simulator sessions are designed to train the operators in areas of event assessment, diagnosis, and response to the extent possible using Catawba Nuclear Station procedures on the McGuire simulator.

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Simulator training is conducted on the Duke Power Company McGuire/Catawba simulator which complies with the requirements of Regulatory Guide 1.149. McGuire Nuclear Station is the reference plant for the simulator. However, its control board configuration, vendor, and response to transients satisfy the similarity requirements of 10 CFR 55 Appendix A. This simulator will be utilized unless a Catawba Nuclear Station site specific simulator is obtained and approved for training.

(k) Observation

Observation training is conducted at a Duke Power Company Nuclear Steam Station. Normally the observation training is structured to reinforce the operating practices, procedures and administrative policies associated with nuclear station operations.

Production Technology Modules

(l) Introduction to Maintenance

This training module introduces the trainee to work philosophy, department maintenance programs and industrial safety; and provides a preview of basic work maintenance performance. It identifies important manuals and regulations and their impact on work performance. Instruction on the selection, use and care of hand and portable power tools is provided. This training module also provides instruction in basic concepts and fundamentals in mathematics, classical and nuclear physics, chemistry, electrical and mechanical systems theory. It introduces the trainee to power plant systems and components and identifies