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SUBJECT:

LTR 1 ENCL 1

FORWARDING APPLICANT'S HOT LICENSE TRAINING PROGRAM FOR EXAMINATION WITH NO  
REACTOR STARTUP DEMONSTRATION, MEETING REQUIREMENTS OF APPENDIX F OF  
NUREG-0094.

PLANT NAME: H B ROBINSON - UNIT 2

REVIEWER INITIAL: XJM

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OPERATOR REGULIFICATION PROGRAM  
(DISTRIBUTION CODE M003)

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**Carolina Power & Light Company**

8/1/78

H. B. ROBINSON STEAM ELECTRIC PLANT  
Post Office Box 790  
Hartsville, South Carolina 29550

July 26, 1978

Robinson File No: 2-0-4-c

SERIAL:RSEP/78-619

Mr. Paul F. Collins, Chief  
Operator Licensing Branch  
Division of Project Management  
U. S. Nuclear Regulatory Commission  
7920 Norfolk Avenue  
Bethesda, Maryland

RECEIVED DISTRIBUTION  
SERVICES UNIT  
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SUBJECT: Hot License Training Program

Dear Mr. Collins:

Please find enclosed our Hot License Training Program for examination with no reactor startup demonstration.

This program meets or exceeds the requirements of Appendix F of NUREG-0094. This program is submitted for your approval as per the telephone conversation with Mr. Fred Lowery.

If you need any further information, please contact me.

Yours very truly,



R. B. Starkey, Jr., Manager  
H. B. Robinson SEG Plant

FLL:pb

Enclosure

REGULATORY DOCKET FILE COPY

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M003  
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H. B. ROBINSON UNIT NO. 2

OPERATING TRAINING PROGRAM

FOR EXAMINATION WITH NO REACTOR STARTUP DEMONSTRATION

The purpose of this program is to ensure that the requirements of Appendix F of the NRC Operator Licensing Guide (NUREG-0094) "Eligibility for Examination With No Reactor Startup Demonstration", ANSI Standard N18.1-1971, "Selection and Training of Nuclear Power Plant Personnel" and 10 CFR 55, "Operator Licenses" are met or exceeded.

The reactor operator candidates will have a high school diploma or equivalent and have two years of power plant experience of which a minimum of one year shall be nuclear power experience.

Each applicant will attend ten (10) weeks of formal classroom training. Two (2) of the ten (10) weeks may be lectures and experiments at either North Carolina State University's Pulstar Reactor or at the Shearon Harris Simulator. Instruction during this phase will include but is not limited to the following topics:

- A. Reactor Theory and Principles of Reactor Operation
- B. Design Features
- C. Operating Characteristics
- D. Instrumentation and Control
- E. Standard and Emergency Operating Procedures
- F. Radiation Control and Protection

In addition to the above lecture series, a minimum of one hundred (100) hours will be spent on prerequisite courses (i.e., Auxiliary Operator

Qualification, Control Operator System Checkout, etc.).

Each applicant will have a minimum of six months at the site. An on-the-job training program has been established that involves manipulation of the nuclear power plant controls during day-to-day operation. The on-the-job training program will last three months and each applicant will have a minimum of 300 hours on the RTGB under the supervision of the licensed operator. In addition to performing the routine duties of the control operator, a program has been established that requires the following:

- (1) Demonstrate the ability to perform most evolutions in our Operating Procedures. (This is accomplished by locating all switches, instruments, and alarms associated with the operating procedure.)
- (2) Discuss the overall operating procedure and demonstrate the ability to perform the evolutions.
- (3) Discuss Section 1 thru 5 of our Technical Specifications.
- (4) Discuss and demonstrate the ability to perform all Abnormal Procedures and Emergency Instructions.

Each applicant will have manipulated the controls of the reactor facility during at least five significant reactivity changes. Every effort will be made to have a diversification of reactivity for each applicant. Examples of reactivity changes that we consider significant are:

- (1) Reactor startup to the point of adding heat.
- (2) Orderly reactor shutdown.
- (3) Manual control of steam generator level during startup.
- (4) Boration of Reactor Coolant System
- (5) Dilution of Reactor Coolant System

- (6) Operation of manipulator crane during refueling.
- (7) Operation of the Electro-Hydraulic Control System during startup.
- (8) Any power changes greater than ten (10) percent in manual rod control.

Each applicant will satisfactorily complete the NRC approved training program and certification on the Shearon Harris simulator located at the Harris Energy and Environmental Center. This program was approved by a letter dated March 1, 1978, from Mr. Paul Collins to Mr. Joseph Collins.

The program is concluded by at least 40 hours of review and evaluation. The evaluation will be administered by written and/or oral examination.