



Carolina Power & Light Company

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SERIAL: NLS-91-348

FEB 05 1992

G. E. VAUGHN  
Vice President  
Nuclear Services Department

United States Nuclear Regulatory Commission  
ATTENTION: Document Control Desk  
Washington, DC 20555

BRUNSWICK STEAM ELECTRIC PLANT, UNIT NOS. 1 AND 2  
DOCKET NOS. 50-325 AND 50-324/LICENSE NOS. DPR-71 AND DPR-62  
SIMULATOR CERTIFICATION SCHEDULE CHANGE

Gentlemen:

The purpose of this letter is to inform the Nuclear Regulatory Commission of a change in the simulator modification schedule provided in the certification package for the Brunswick Plant Reference Simulator.

Replacement of the process computer as modeled by the simulator was scheduled to be complete by December 31, 1991. Installation of the Brunswick Unit 2 process computer, which is the unit the simulator models, has been rescheduled to take place during the spring 1993 Brunswick Unit 2 refueling outage rather than the fall 1991 Unit 2 outage. Consequently, implementation of the new process computer on the simulator has been deferred to June 1993. Operator requalification training will be adjusted to accommodate the revised schedule. Enclosure 1 provides the revised certification report page for your use.

Should you have questions regarding this issue, please contact Mr. S. D. Floyd at (919) 546-6154.

Yours very truly,

G. E. Vaughn

DBB/jbw (1451GLU)

Enclosure

cc: Mr. S. D. Ebnetter  
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## Enclosure 1

Certification Test Deficiencies Revised Schedule - Plant Process Computer for Brunswick Steam Electric Plant

### INITIAL CERTIFICATION POSITION:

Numerous problems exist with the current Process Computer. Specifics identified in PTA-SS-001, PTA-SS-002, PTA-MV-601, PTA-MV-605, and PTA-MV-705. Additional problems have been identified during the training program. The plant and simulator are in the process of replacing existing systems. The simulator upgrade is scheduled to lead the plant; implementation is scheduled for December 1991. SSk 90-189

### REVISED IMPLEMENTATION SCHEDULE:

The deficiencies noted will be corrected by upgrading the plant and simulator Process Computers. Delays in installation of the new Process Computers in the control room have postponed installation of the system in the simulator. Installation of the new Process Computer in the simulator is now scheduled for June 1993.

**APPENDIX E**  
**SUMMARY OF CERTIFICATION TEST DEFICIENCIES**

**Electrical**

- 89-120 - Too many loads were lost when malfunction activated. DC Distribution upgrade, expected correction 12/91. PTA-MA-033
- 91-071 - Upgrade DC Model. DC Upgrade, expected correction 12/91. PTA-MA-033
- 90-137 - Incorrect DC distribution to transmitters. DC Upgrade, expected correction 12/91. PTA-MA-033
- 90-261 - APRM Power Supply not modeled correctly. To be corrected by 12/91.
- 89-244 - Radiation Monitor has incorrect power supply. To be corrected by 12/91

**Plant Process Computer**

The deficiencies noted will be corrected by upgrading the plant and simulator Process Computers. Delays in installation of the new Process Computers in the control room have postponed installation of the system in the simulator. Installation of the new Process Computer in the simulator is now scheduled for June 1993.

**HVAC and Radiation Monitoring**

- 89-120 Radiation Monitor does not activate when required
- 90-037 CB HVAC air supply is incorrectly modeled
- 90-254 Stack Radiation Monitor reading high
- 90-067 RCIC Steam Line Break does not cause temperature or radiation indication. PTA-MA-006
- 91-065 Upgrade HVAC Models
- 91-067 Upgrade Radiation Monitoring System

The HVAC and Radiation Monitoring Systems are currently being upgraded. Model integration is scheduled for the third quarter of 1991. Integration into the training program will be a function of the Configuration Control Board.

**Condensate Feed, Off-Gas, and SJAE**

- 90-087 - The 2B Feedwater Heater tube leak does not give a correct indication. To be corrected by 12/91.
- 91-055 - Vacuum will not decrease on a loss of SJAE. PTA-MA-059. Correction planned by 12/92.
- 91-058 - Feedwater control responds too quickly. PTA-TN-008 and PTA-MA-074. To be corrected by 12/91.
- 91-109 - AOG system model becomes unreliable during LOCAs. Problem is not repeatable or consistent. To be corrected by 12/92.
- 91-050 - Booster pump discharge pressure remains high when pumps are secured. PTA-MV-600. To be corrected by 12/91.
- 91-056 - SJAE did not warm-up correctly. PTA-MV-300. To be corrected by 12/92.