

# UNITED STATES NUCLEAR REGULATORY COMMISSION WASHINGTON, D. C. 20555

# SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION

SUPPORTING AMENDMENT NO. 81 TO FACILITY LICENSE NO. DPR-71 AND

AMENDMENT NO. 107 TO FACILITY LICENSE NO. DPR-62

CAROLINA POWER & LIGHT COMPANY

BRUNSWICK STEAM ELECTRIC PLANT, UNITS 1 AND 2

DOCKET NOS. 50-325 AND 50-324

## 1.0 · Introduction

By letter dated October 2, 1984, the Carolina Power & Light Company (the licensee) submitted proposed changes to the Technical Specifications (TS) appended to Facility Operating License Nos. DPR-71 and DPR-62 for the Brunswick Steam Electric Plant, Units 1 and 2.

The proposed changes modify the TS to: (1) delete a requirement for control room annunciation of a high-voltage circuit failure alarm, a feature which is not present in the originally installed equipment, and (2) delete a requirement for control room annunciation or alarm if an instrument is not set in the "operate" mode, a feature which is not present in the originally installed equipment. These Technical Specifications are part of the Standard Radiological Effluent Technical Specifications (RETS), adopted by the licensee in Amendment No. 62, Unit 1, and in Amendment No. 88, Unit 2, both dated December 7, 1983.

# 2.0 Discussion

The TS section (Table 4.3.5.9-1) in question was adopted by the licensee in the changeover to the standard RETS, in Amendment No. 62, Unit 1, December 27, 1983, and Amendment No. 88, Unit 2, December 27, 1983. In the preparation of the referenced amendments, the licensee inadvertently included changes which did not reflect the actual design features of certain items of installed equipment. The proposed amendments would delete those inadvertent changes.

Table Notation (d)2 to Table 4.3.5.9-1 (Amendment No. 62, Unit 1 and Amendment No. 88, Unit 2) provides for control room alarm annunciation if the instrument experiences circuit failure. "High-voltage low" is given as an example of circuit failure. Affected monitors are the noble gas activity monitor of the main stack monitoring system, the reactor building ventilation monitoring system, and the turbine building ventilation monitoring system. Table Notation (d)4 to Table 4.3.5.9-1 (Amendment No. 62, Unit 1 and Amendment No. 88, Unit 2) additionally provides for control room annunciation when the noble gas activity monitor of the reactor building ventilation system is not set in the "operate" mode. The

referenced notations are to existing installed instrumentation systems which do not have the design capabilities specified.

#### 3.0 Evaluation

The proposed revisions to TS Table 4.3.5.9-1 (Units 1 and 2) delete reference to instrumentation functions which are not present in the design of radioactive effluent monitoring systems now installed at Brunswick. The revisions necessary to TS Table 4.3.5.9-1 are (1) the deletion of the requirements for control room alarm annunciation when the noble gas activity monitors of the main stack monitoring system, the reactor building ventilation monitoring system, or the turbine building ventilation monitoring system experience a circuit failure and (2) the deletion of the requirement for control room alarm annunciation for the condition when the neble gas activity monitor for the reactor building ventilation system is not set in the "operate" mode.

The instrumentation systems affected by the proposed amendment are provided with both upscale and downscale trips which alarm in the control room. In most cases of circuit failure, either an upscale or downscale trip would occur. In the case of circuit failure involving low high-voltage, an observable downscale trend would occur. For the reactor building monitor, the performance of once-per-shift channel checks would detect the failure. For the main stack and turbine building monitors, a check source test performed automatically every five minutes would detect the low high-voltage condition. The reactor building monitor is not provided with an "operate" mode switch; however, the once-per-shift channel checks assure timely detection and verification of the monitors' operability.

The proposed revisions reflect the design features of the existing monitors. The TS requirements referencing these features were part of the standard RETS package adopted by the licensee and were inadvertently included in that package.

It has not been the policy of the staff to impose new requirements on the use or functioning of existing equipment. Since the proposed revisions reflect existing equipment design capabilities, the staff considers relief from the standard RETS requirements to be appropriate. The proposed revision is therefore consistent with GE/BWR-4 Standard TS guidance for operating reactors. Based on the above evaluation, the staff concludes that the proposed amendments are acceptable.

# 4.0 Environmental Considerations

The amendments involve a change in the installation or use of a facility component located within the restricted area as defined in 10 CFR Part 20. The staff has determined that the amendments involve no significant increase in the amounts, and no significant change in the types, of any effluents that may be released offsite, and that there is no significant increase in

individual or cumulative occupational radiation exposure. The Commission has previously issued a proposed finding that the amendments involve no significant hazards consideration and there has been no public comment on such finding. Accordingly, the amendments meet the eligibility criteria for categorical exclusion set forth in 10 CFR 51.22(c)(9). Pursuant to 10 CFR 51.22(b) no environmental impact statement or environmental assessment need be prepared in connection with the issuance of the amendments.

## 5.0 Conclusions

We have concluded, based on the considerations discussed above, that:
(1) there is reasonable assurance that the health and safety of the public will not be endangered by operation in the proposed manner, and (2) such activities will be conducted in compliance with the Commission's regulations and the issuance of the amendments will not be inimical to the common defense and security or to the health and safety of the public.

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Dated: February 7, 1985