



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION

SUPPORTING AMENDMENT NO. 145 TO FACILITY OPERATING LICENSE NO. DPR-62

CAROLINA POWER & LIGHT COMPANY et al.

BRUNSWICK STEAM ELECTRIC PLANT, UNIT 2

DOCKET NO. 50-324

1.0 INTRODUCTION

By letter dated November 11, 1987, the Carolina Power & Light Company submitted a request for changes to the Technical Specifications (TS) for the Brunswick Steam Electric Plant, Unit 2. The proposed changes would replace instrument tag numbers TS-CR-863 with TS-CIT-863-3 in Tables 3.3.5.6-2 and 4.3.5.6-1. The change is being requested to reflect a plant modification which upgrades the instrumentation.

2.0 EVALUATION

In the November 11, 1987 submittal, the licensee proposed changing certain instrument tag numbers as listed in Item 2 of TS Tables 3.3.5.6-1, 3.3.5.6-2 and 4.3.5.6-1. Item 2 represents the chloride lead detector in the condensate pump discharge, which provides indication of chloride intrusion in the condensate system only. The purpose of these chloride intrusion monitors is to preclude long-term piping degradation in the condensate system.

The licensee plans a plant modification which upgrades the instrumentation. TS-CR-863 represents a conductivity recorder and two analyzers, one which measures feedwater conductivity and one which measures condensate conductivity. The replacement, TS-CIT-863-3, is an upgraded conductivity cell and analyzer, capable of detection and compensation for temperature transients which may occur in the sample being analyzed. The new conductivity analyzer will provide a direct and continuous reading without relying on a recorder. The new analyzer will also provide an output to a recorder for trending purposes.

The function provided by the instrumentation being replaced would not be altered with the new instrumentation. The capabilities of the chloride intrusion instrumentation are enhanced by the ability to detect and compensate for temperature transients in analyzed samples. The chloride limits established in TS 3/4.4.4 and the setpoints of TS Table 3.3.5.6-2 are unchanged. The change does not affect the TS requirement that at least one channel of the chloride leak detection instrumentation in the condensate pump discharge be operable.

Therefore, based on the discussion above, the NRC staff finds the change to be acceptable.

3.0 ENVIRONMENTAL CONSIDERATIONS

This amendment changes a requirement with respect to installation or use of a facility component located within the restricted areas as defined in 10 CFR Part 20. The staff has determined that the amendment involves no significant increase in the amounts, and no significant change in the types, of any effluents that may be released off site; and that there should be no significant increase in individual or cumulative occupational radiation exposure. The Commission has previously issued a proposed finding that this amendment involves no significant hazards consideration, and there has been no public comment on such finding. Accordingly, this amendment meets 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 amendment.

4.0 CONCLUSION

The Commission made a proposed determination that this amendment involves no significant hazards consideration which was published in the FEDERAL REGISTER (53 FR 2311) on January 27, 1988, and consulted with the State of North Carolina. No public comments or requests for hearing were received, and the State of North Carolina did not have any comments.

The staff has 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 amendment will not be inimical to the common defense and security or to the health and safety of the public.

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Dated: March 15, 1988