



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION
RELATED TO AMENDMENT NO. 29 TO FACILITY OPERATING LICENSE NO. DPR-70

PUBLIC SERVICE ELECTRIC AND GAS COMPANY,
PHILADELPHIA ELECTRIC COMPANY,
DELMARVA POWER AND LIGHT COMPANY, AND
ATLANTIC CITY ELECTRIC COMPANY

SALEM NUCLEAR GENERATING STATION, UNIT NO. 1

DOCKET NO. 50-272

Introduction

By letter dated December 11, 1980, the licensee requested changes to Technical Specification 4.6.2.2.d. The change relates to base data for a five year surveillance test of the Containment Spray System. The licensee advised that a test was conducted recently at the end of the first five-year test interval. Results do not reproduce the original test data. The licensee has determined that the original data base should be replaced with a new data base. Because of the plant scheduler reasons, the licensee requests our expedited action to revise the base test data of the specification to allow plant heatup for further post-refueling testing.

Discussion and Evaluation

The Containment Spray Additive System is used in the unlikely event of a loss of coolant accident (LOCA). A sodium hydroxide (NaOH) solution, when educted into the containment spray system ensures that:

- (1) the iodine removal efficiency of the spray water is maintained because of the increase in pH value, and
- (2) corrosion effects on components within containment are minimized.

To assure system operability certain surveillance requirements are periodically checked. At each five-year interval, Specifications 4.6.2.1.d and 4.6.2.2.d are done. The licensee reports that Specification 4.6.2.1.d was accomplished satisfactorily. This test verifies a spray additive tank eductor flow rate to each containment spray system with the spray pump operating in the recirculation mode. Specification 4.6.2.2.d, is intended to show that the lines from the spray additive tank to the sample valve 2CS61 have an acceptable pressure drop. The base data now in the Technical Specifications were provided by the licensee during the pre-licensing Technical Specification reviews. Data was taken from pre-operational tests.

The licensee advised that test data taken for the first five-year interval do not duplicate the earlier test data. The licensee states that the data cannot be duplicated due to a lack of documentation for the original test methods. On this basis, the licensee has proposed that the current testing method and resulting data be used as the new base data for subsequent surveillance tests. Further, the licensee has agreed to provide the flow eductor operational curves to us for further review.

On the basis of our review, we conclude that the new test method and resulting new base data will be acceptable for Salem Unit No. 1.

Environmental Consideration

We have determined that the amendment does not authorize a change in effluent types or total amounts nor an increase in power level and will not result in any significant environmental impact. Having made this determination, we have further concluded that the amendment involves an action which is insignificant from the standpoint of environmental impact and, pursuant to 10 CFR §51.5(d)(4), that an environmental impact statement or negative declaration and environmental impact appraisal need not be prepared in connection with the issuance of this amendment.

Conclusion

We have concluded, based on the considerations discussed above, that: (1) because the amendment does not involve a significant increase in the probability or consequences of accidents previously considered and does not involve a significant decrease in a safety margin, the amendment does not involve a significant hazards consideration, (2) there is reasonable assurance that the health and safety of the public will not be endangered by operation in the proposed manner, and (3) such activities will be conducted in compliance with the Commission's regulations and the issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public.

Date: December 11, 1980