



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION
RELATED TO AMENDMENT NO. 146 TO FACILITY OPERATING LICENSE NO. DPR-66

DUQUESNE LIGHT COMPANY
OHIO EDISON COMPANY
PENNSYLVANIA POWER COMPANY

BEAVER VALLEY POWER STATION, UNIT NO. 1

DOCKET NO. 50-334

INTRODUCTION

By letter dated September 22, 1989, Duquesne Light Company (the licensee, acting as agent for the above utilities) submitted a request to amend Table 3.6-1, "Containment Penetrations" of the Technical Specifications. We have completed our review and the results are presented below.

DISCUSSION AND EVALUATION

The licensee proposed to revise Table 3.6-1, "Containment Penetrations" to remove containment isolation valve SI-91 listed for penetration 113-1-A. SI-91 is installed in a 1-inch line that bypasses the Boron Injection Tank (BIT). Prior to Amendment 71, the BIT was maintained at a boron concentration of 20,000 ppm. The safety injection piping downstream of the BIT isolation valves is not heat traced or insulated, therefore, the 1" BIT bypass piping was used to flush this downstream piping after a safety injection actuation or a functional test. The flushing was needed to ensure the residual boron concentration downstream of the BIT was sufficiently diluted to preclude boron precipitation and clogging of the pipe.

Amendment No. 71 reduced the required BIT boron concentration to 2,000 ppm so that flushing the downstream piping is no longer required. Hence the bypass line is no longer needed as a result of Amendment No. 71. Removal of this valve from Table 3.6-1 would allow cutting the piping and welding caps on the ends of the pipe stubs that will remain attached to the safety injection piping. This will remove the major portion of the BIT bypass piping and eliminate SI-91 as a containment isolation valve. The licensee stated that the pipe caps installed on the pipe stubs attached to the safety injection piping will be welded in place, and will be subject to periodic examination and test. We agree that the caps will provide the required isolation capability.

Furthermore, we conclude that elimination of the bypass line and associated valve SI-91 has no effect on previous accident analyses. There are actually additional benefits to be gained: (1) the piping configuration that can lead

to the thermal stress incidence as described in Bulletin 88-08 can be eliminated, (2) the costs associated with Type C testing of valve SI-91 can be avoided, and (3) the occupational exposure associated with Type C testing of the valve can be avoided.

The licensee committed to revise Updated FSAR Section 5.3.3.1 to reflect the removal of valve SI-91.

We find the proposed design change, and Technical Specification change (Table 3.6-1) acceptable.

ENVIRONMENTAL CONSIDERATION

This amendment changes a requirement with respect to the installation or use of a facility component located within the restricted area as defined in 10 CFR Part 20. We have 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 offsite, and that there is no significant increase in individual or cumulative occupational radiation exposure. We have 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 this amendment.

CONCLUSION

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 (3) the issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public.

Dated: November 2, 1989

Principal Contributor: Peter S. Tam

DATED: November 2, 1989

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