



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION
SUPPORTING AMENDMENT NO.93 TO FACILITY OPERATING LICENSE NO. DPR-50

METROPOLITAN EDISON COMPANY
JERSEY CENTRAL POWER AND LIGHT COMPANY
PENNSYLVANIA ELECTRIC COMPANY
GPU NUCLEAR CORPORATION

THREE MILE ISLAND NUCLEAR STATION, UNIT NO. 1

DOCKET NO. 50-289

Introduction

By letter dated April 21, 1982, the licensee proposed certain changes to the facility Technical Specifications concerning containment leakage rate testing, as required by Appendix J to 10 CFR 50. Specifically, these proposed changes relate to local (Type B and C) leakage rate testing of containment isolation valves and resilient seals in penetrations. The licensee would add several valves to the Type C testing program, delete others, and make certain editorial changes.

Evaluation

In an NRC letter dated November 4, 1981, the licensee was requested to include valves IC-V16, V18, and NS-V11 in their Type C testing program. In a letter dated January 26, 1982, the licensee concurred and, in addition, committed to include certain recently-installed containment isolation valves associated with the hydrogen recombiner system (valves HR-V2A, 2B, 4A, 4B, 22A, 22B, 23A, 23B). We consider the addition of these valves to the Type C testing program to be appropriate and acceptable.

In conjunction with the recombiner system modification, containment isolation valves LR-V2 and LR-V3 will no longer function as containment isolation barriers; instead, blind flanges located downstream fulfill this function. Therefore, the licensee proposes to remove valves LR-V2 and LR-V3 from the Type C testing program. These valves will remain in place, but will function only to throttle the flow of air from the containment during depressurization following containment integrated leak rate tests. Due to the configuration used during leak testing (pressurizing between two flanges at either end of penetration), the results of local leak (Type B) testing of blind flanges on penetrations 415 and 416 will include any leakage from packing and bonnet gaskets on valves LR-V2 and LR-V3. We, therefore, conclude that valves LR-V2 and LR-V3 need not be Type C tested and may be removed from the Type C testing program.

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The licensee states that since it has been determined that their fluid blocking systems do not meet the Appendix J requirements for a containment isolation valve sealing system, all the valves and penetrations listed in the proposed changes to the Technical Specifications concerning local leakage rate tests (4.2.1.2.1) are either Type B or C tested, as appropriate, in accordance with Appendix J. The licensee has not taken credit for the fluid blocking systems (mentioned in current Technical Specifications) in lieu of Type B and C testing since 1977. The licensee proposes, therefore, to remove all discussion of these fluid blocking systems from the Technical Specifications. Valves and penetrations currently shown as served by the fluid blocking systems and not requiring Type B and C tests would instead be listed as requiring Type B and C tests. The licensee proposes to rearrange the valve listing into alphabetical order by valve tag number; also, valve tag number RB-V2A, which is incorrectly listed in current Technical Specifications as "RB-V2*", would be corrected. We consider these changes to be appropriate and acceptable.

In conclusion, we find all of the proposed changes to the Technical Specifications contained in the licensee's letter of April 21, 1982, to be acceptable.

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

Dated: May 18, 1984

Principal Contributor:
J. Pulsipher

REFERENCES:

1. Letter, J. Stolz (NRC) to H. Hukill (Metropolitan Edison Company), "Addition of Valves to Local Leak Rate Testing Program for TMI-1," dated November 4, 1981.
2. Letter, H. Hukill (Metropolitan Edison Company) to J. Stolz (NRC), "Type 'C' Testing for Valves NS-V11, IC-V16 & V18," dated January 26, 1982.