



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION

RELATED TO AMENDMENT NO. 34 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

During the extended refueling outage after termination of Fuel Cycle No. 1, Duquesne Light Company (the licensee) has performed extensive design changes to Beaver Valley Power Station Unit No. 1. Many of these changes were made to satisfy the conditions and requirements of the Order for Modification of License which was issued by the Commission on September 30, 1977 related to the adequacy of the Net Positive Suction Head (NPSH). Other modifications were made to satisfy the requirements of IE Bulletins 79-02, 79-07, and 79-14 related to structural and seismic qualifications of pipes and pipe supports. In the process of achieving the desired changes, the licensee has concluded that several hydraulic snubbers should be removed and replaced with different types of supports. By letter dated October 17, 1980, the licensee requested that these changes in snubbers be approved.

Discussion and Evaluation

The hydraulic snubbers listed in Table 3.7-4 of the licensee's Radiological Technical Specifications represent the snubbers required to be operable to ensure that the integrity of the reactor coolant system and all other safety related systems is maintained during and following a seismic or other event initiating dynamic loads. As the result of recent design changes and re-analyses of seismic loads within the plant, the licensee concluded that four hydraulic snubbers should be replaced by mechanical snubbers and five other hydraulic snubbers should be replaced by rigid supports.

By Amendment No. 28 to License DPR-66, dated August 27, 1980, the staff approved the design changes required to upgrade the NPSH system. The reanalyses of pipe stresses required by IE Bulletins 79-07 and 79-14 are currently under review by the NRC. By letter of August 11, 1980, the licensee submitted its final report on the seismic reanalysis of all safety related piping that was originally performed by an unsatisfactory computer program. Among the problems included in this report are the lines with the replaced hydraulic snubbers.

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The staff has reviewed the licensee's report to the extent that we have determined that the licensee's analyses indicates that overstressed conditions would not exist if the hydraulic snubbers were replaced with the indicated supports. We, therefore, conclude that the changes are acceptable. However, the licensee's analyses of piping systems under I&E Bulletin 79-14 is continuing and further staff review may be performed if warranted.

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: October 20, 1980