



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

SAFETY EVALUATION
AMENDMENT NOS. 30 and 6 TO NPF-14 and NPF-22
SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 1 AND UNIT 2
DOCKET NOS. 50-387 AND 50-388

Introduction

The licensee proposed changes to the Technical Specifications of the operating license for the Susquehanna Steam Electric Station, Units 1 and 2. These changes are as a result of the licensee's submittal, final report on a deficiency involving water hammer in the Emergency Service Water (ESW) system dated September 22, 1983 (N. W. Curtis (PP&L) to T. E. Murley (NRC)). As an interim fix for the water hammer problem the licensee installed motor operators into four normally manually-operated valves. These valves are identified as HV-01101 A, B, C, and D. At this time the licensee is proposing to implement a permanent acceptable fix for the ESW system water hammer problem. This permanent fix includes removing the motor operators from HV-01101 A, B, C and D which will be converted to locked-open manually operated valves.

In addition, two 8-inch motor-operated butterfly valves (HV-08693 A and B) will be added in the Unit 1 reactor building in the ESW return lines from the control structure chillers. Since these 8-inch butterfly valves are used in support of the common control structure chillers, they are included in both Unit 1 and Unit 2 Technical Specification Table 3.8.4.2-1.

Evaluation

The licensee's proposed changes to the technical specifications will remove the four previously motor-operated valves, HV-01101 A, B, C, D, from the Unit 2 Technical Specification Table 3.8.4.2-1 and HV-08693 A and B will be added to Table 3.8.4.2-1, Motor-Operated Valves Thermal Overload Protection, for both the Unit 1 and Unit 2 Technical Specifications.

The Unit 2 modifications which have been submitted as a separate proposed amendment include the installation of the two 4-inch motor-operated butterfly valves (HV-21144 A and B) in the ESW return lines from the direct-expansion (DX) units. The Unit 2 modifications are unique to Unit 2 and do not have to be added to the Unit 1 Technical Specifications.

The licensee states that removal of the motor operators from the ESW pump discharge valves (HV-01101 A, B, C and D) without the installation of the motor-operated valves on the ESW return lines from the Unit-2 DX units has been analyzed and found acceptable. The NRC staff agrees with this position as the placement of the HV-08693 A and B valves allow an effective method of resolving the ESW water hammer problem until the modification for Unit 2 are made during the Unit 2 first refueling outage.

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The valves to be installed in the ESW system have environmentally qualified limitorque motor operators. The licensee has stated that the piping was analyzed for the addition of the valves and operators and was appropriately supported. The installation of these valves will be in accordance with Section XI of the ASME Boiler and Pressure Vessel Code.

The NRC staff finds these modifications acceptable from a Technical Specification standpoint. Additionally these modifications are acceptable with regard to system analysis and installation.

Our review shows that the proposed changes to the technical specifications are appropriate and that these changes do not reduce the safety of the plant and are, therefore, acceptable.

Environmental Consideration

This amendment involves a change in the installation or use of a facility component located within the restricted area 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 offsite, and that there is 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 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: **FEB 07 1985**