



UNITED STATES
ATOMIC ENERGY COMMISSION
WASHINGTON, D.C. 20545

SAFETY EVALUATION BY THE
DIRECTORATE OF LICENSING
SUPPORTING AMENDMENT NO. 3
TO LICENSE NO. DPR-50

METROPOLITAN EDISON COMPANY
JERSEY CENTRAL POWER AND LIGHT COMPANY
PENNSYLVANIA ELECTRIC COMPANY

THREE MILE ISLAND NUCLEAR STATION - UNIT 1
DOCKET NO. 50-289

Introduction

During the final preparations for fuel loading in Three Mile Island Unit 1 (TMI-1), the sodium thiosulfate tank was severely damaged. The incident was reported and described in a Metropolitan Edison Company (MetEd) letter to Dr. D. F. Knuth of the Atomic Energy Commission dated April 11, 1974.

On April 18, 1974 an interim safety analysis was reported by the Regulatory staff which concluded that TMI-1 could be operated at power levels up to 19% of rated power with the sodium thiosulfate tank out of commission since operation of the remaining portions of the containment spray system would reduce the calculated offsite doses to no more than those calculated for operation of the full spray system after an accident at 100% of rated power. Based on that interim safety analysis, the TMI-1 operating license was conditioned to allow operation at up to 19% power while the sodium thiosulfate tank underwent repairs.

By their letter of June 17, 1974 Metropolitan Edison Company notified the staff that the sodium thiosulfate tank has been repaired and satisfactorily restored to service; this is corroborated by Regulatory Operations in inspection reports Nos. 50-289/74-22, -23 and -25. The special license condition related to repair of this tank is now no longer applicable. The staff concludes that this license should therefore be amended to delete this condition. The staff further concludes that this amendment does not:

- (1) involve a significant hazards consideration or a safety consideration of a type or magnitude not considered by any previous staff safety review of this facility,
- (2) potentially involve a substantial increase in the probability or consequences of an accident considered in any previous staff safety review, or
- (3) potentially decrease the margin of safety during normal plant operation, anticipated operational occurrences or postulated accidents considered in any previous staff safety review.

Based on the foregoing analysis, the staff finds that there is reasonable assurance that the health and safety of the public will not be endangered by approval of this amendment to license No. DPR-50.

Original Signed by
R. Bernero

Robert M. Bernero, Project Manager
Light Water Reactors Branch 2-3
Directorate of Licensing

Original Signed By
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A. Schwencer, Chief
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