

January 17, 1985

AEOD/E501

MEMORANDUM FOR: Karl V. Seyfrit, Chief
Reactor Operations Analysis Branch
Office for Analysis and Evaluation
of Operational Data

FROM: Matthew Chiramal, Chief
Engineering Section
Reactor Operations Analysis Branch
Office for Analysis and Evaluation
of Operational Data

SUBJECT: ENGINEERING EVALUATION REPORT E5 01 :
MOTOR OPERATED VALVE FAILURES DUE TO HAMMERING PROBLEM

Forwarded herewith is the subject Engineering Evaluation report for your consideration. This report is based on a review of events involving motor operated valve (MOV) failures due to the 'hammering' problem, and a detailed analysis of the control circuit design of a typical MOV. The report concludes that MOVs designed to close on torque have fairly typical control circuit design and such MOVs have the potential for being subjected to the hammering problem. The report also concludes that although a recently issued IE Information Notice (IE In 82-10) alerts licensees of operating nuclear plants to investigate the underlying cause of MOV failures, licensees may still be missing failures such as the hammering problem. Hence, it is recommended that this report be used as a basis for issuing a revision to IE IN 82-10 or to develop a new IE Information Notice.

The report also recommends that the report with the control circuit design details be included in a forthcoming issue of Power Reactor Events (PRE).

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Enclosure:
As Stated

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