

Metropolitan Edison Company (Met-Ed)
Three Mile Island Nuclear Station Unit 1 (TMI-1)
Operating License No. DPR-50
Docket No. 50-289
Non-Routine 30-Day Report 75-07 (Follow-Up)

1. Description of Deficiency

On August 15, 1975 it was discovered that Main Steam Valves MS-V-4A&B and Emergency Feedwater Valves EF-V-30A&B were never analyzed to Seismic Class I requirements.

2. Designation of Apparent Cause of Deficiency

Upon determining that Main Steam Valves, MS-V-4A&B, had never been formally qualified, Babcock & Wilcox (B&W) was immediately requested to determine whether any additional valves which were furnished under the B&W scope of supply for TMI-1 had not been seismically qualified as required by the FSAR. B&W was also requested to determine why such qualifications had not been performed on MS-V-4A&B. The subject valves are Fisher Control Valves which were procured by Bailey Meter Co. for B&W.

After review of the above discrepancy, B&W stated that when the subject valves were originally purchased, the portion of the Main Steam System in which these valves were located were not required to be seismically qualified. As a result, no seismic requirements were invoked on the subject valves. However, during the course of the TMI-1 licensing process, a decision was made to upgrade the Seismic classification of additional portions of the Main Steam System and of the Emergency Feed System. The equipment furnished by B&W which were affected by this upgrading were valves MS-V-4A&B and EF-V-30A&B. However, the requirement to upgrade the above valves was overlooked. B&W also noted that all other valves provided by Bailey have been reviewed and verified as not requiring seismic qualification. B&W also noted that a review of the valves provided directly through B&W has indicated they were supplied to the necessary seismic requirements.

Based on the above, Met-Ed independently verified that the only valves procured by Bailey which require seismic qualification were MS-V-4A&B and EF-V-30A&B. In addition, prior to the time that the subject deficiency had been found, Met-Ed had reviewed several B&W valve specifications. These reviews were conducted in support of spare parts ordering and revealed no similar deficiencies. It was, therefore, concluded that the subject deficiency was limited to those valves supplied by B&W through Bailey Meter Company and that the deficiency only occurred on the above valves.

Based on the above, it has been determined that the lack of seismic qualification of these valves was caused by inadequate interface control between Met-Ed, Gilbert Associates Inc. and B&W in the area of balance of plant design.

3. Corrective Action

In addition to the verification of seismic requirements for other valves mentioned above, seismic calculations have been performed on the four

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valves and confirm that the valves are capable of withstanding Seismic Class I loadings. These calculations are in the process of being transmitted to Met-Ed and should be in our possession by October 10, 1975.

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