



Commonwealth Edison
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THIS DOCUMENT CONTAINS
POOR QUALITY PAGES

August 8, 1980

Mr. Harold R. Denton, Director
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
Washington, DC 20555

Subject: Zion Station Units 1 and 2
Results of Purge Valve Analysis
NRC Docket Nos. 50-295 and 50-304

References (a): December 14, 1980 letter from D. L. Peoples
to H. R. Denton

(b): May 22, 1980 letter from D. L. Peoples to
H. R. Denton

Dear Mr. Denton:

In Reference (a), Commonwealth Edison Company committed to comply with the NRC's "Interim Position for Containment Purge and Vent Valve Operation Pending Resolution of Isolation Valve Operability," as contained in the October 1979 letter to Commonwealth Edison. In essence, Commonwealth Edison committed to maintain the purge valves in a closed position whenever the reactor was not in a cold shutdown or refueling mode until such time as the purge valves could be shown to close under DBA conditions.

As indicated in Reference (b), NUTECH Corporation, using torque data supplied by the valve manufacturer (Henry Pratt Company), has performed an analysis to show that:

1. The valve actuators have sufficient torque capability to stroke the valves from full open to full closed, within the technical specification time limit, against the design basis LOCA containment pressure; and
2. The valve structural elements have sufficient stress margins to withstand the concomitant loads imposed while closing, considering torsional shear, shear, bending, tension, compression and seismic loadings.

Revision 1 of the report of that analysis, entitled "Evaluation of 42-inch Containment Isolation Valves for Zion Station, Units 1 & 2" is enclosed for your review and approval. Based on the results of this report, Commonwealth Edison has concluded that the 42" purge valves will properly close if required during a containment pressurization. Therefore, upon receipt of your concurrence, the restriction on purging will be removed for both Zion units.

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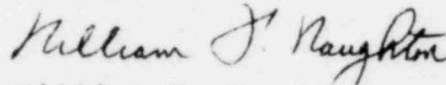
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Please address any questions that you might have concerning this matter to this office.

One (1) signed original and thirty-nine (39) copies of this letter and seven (7) copies of the enclosed report are provided for your use.

Very truly yours,



William F. Naughton
Nuclear Licensing Administrator
Pressurized Water Reactors

enclosure

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