

POWER AUTHORITY OF THE STATE OF NEW YORK

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May 20, 1983  
JPN-83-46

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Director of Nuclear Reactor Regulation  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555

Attention: Mr. Domenic B. Vassallo, Chief  
Operating Reactor Branch No. 2  
Division of Licensing

Subject: James A. FitzPatrick Nuclear Power Plant  
Docket No. 50-333  
Generic Letter 83-08 - Vacuum Breakers

Reference: 1. NRC Generic letter 83-08, D.G. Eisenhower  
to L.W. Sinclair, dated February 2, 1983.

Dear Sir:

Reference 1 requested a commitment to submit the results of the plant unique calculations which either formed the bases for vacuum breaker modifications or provided justification for their as-built acceptability. Reference 1 also requested schedules for completion of any modifications.

Attachment 1 addresses these requests.

If you require any further information, please contact Mr. J.A. Gray, Jr. of my staff.

Very truly yours,

J.P. Bayne  
Executive Vice President  
Nuclear Generation

cc: Mr. J. Linville  
Resident Inspector  
U.S. Nuclear Regulatory Commission  
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JAMES A. FITZPATRICK NUCLEAR POWER PLANT  
ATTACHMENT -1 TO JPN-83- 46

DATED May 20, 1983

As a result of the Mark I Owners Group effort, a plant unique analysis was performed to address potential failure of the torus to drywell vacuum breakers at FitzPatrick. This report was prepared by Continuum Dynamics, Inc., and is entitled "Improved Dynamic Vacuum Breaker Valve Response for FitzPatrick", Revision 0, dated September, 1982. The report addresses potential failure of the vacuum breakers in the chugging phase of blowdown to the torus during a loss-of-coolant accident. It concludes that "the vacuum breakers in the FitzPatrick plant are predicted to not actuate during the chugging transient". Based on this conclusion, the Authority maintains that no modifications to the subject valves are necessary, and that the Continuum Dynamics report forms the basis for justification of the valves' as-built acceptability.

Nevertheless, as a consequence of SIL #321 issued by the General Electric Company in December 1979, the Authority has implemented certain actions to address the General Electric suggestions.

In addition, the Authority is participating in a further study being performed through the Mark I Containment Program concerning the report prepared by Continuum Dynamics, Inc.. This further work is being done as a result of recent NRC reviews of Mark I Plant Unique Analysis Report submittals. Until this study is completed and the results evaluated, the Authority considers the 30 inch diameter Atwood Morrill vacuum breakers at the FitzPatrick Plant acceptable.