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Executive Vice President
Nuclear Generation

July 12, 1991
JPN-91-033

U.S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Mail Station P1-137
Washington, D.C. 20555

SUBJECT: James A. FitzPatrick Nuclear Power Plant
Docket No. 50-333
**Supplement to Proposed Changes
to the Technical Specifications
Spent Fuel Pool Storage Capacity (JPTS 90-035)**

Reference: NYPA letter, J.C. Brons to NRC, dated May 31, 1990 (JPN-90-042). "Proposed Changes to the Technical Specifications Regarding Spent Fuel Pool Storage Capacity."

Dear Sir:

Attached is Supplement A to the licensing report included with proposed Technical Specification changes submitted with the reference letter. The proposed changes would permit increased spent fuel pool storage capacity at the FitzPatrick plant.

The Authority recently completed detailed measurements of the spent fuel pool and determined that the rack-to-rack and rack-to-wall gaps are slightly smaller than assumed in the licensing report. The analysis used existing drawings to determine the gap dimensions. A comparison made between the existing drawings and the measurements of the spent fuel pool showed that the drawings were incorrect, and that the gap dimensions are smaller than previously thought.

Specifically, at certain locations the rack-to-wall gap is approximately one-half inch less than previously assumed. The gap between new racks and existing racks is approximately one and three-quarter inches less than previously thought.

The Authority reanalyzed the effects of the reduced gaps on spent fuel pool temperature, and response of the racks to seismic events. These analyses showed that while the local pool water and fuel cladding temperatures have increased, localized nucleate boiling or a state of overstress in the fuel cladding would not occur. Using the new gap dimensions, the maximum local pool water temperature is 236° F. This is approximately 10° F higher than reported earlier. This temperature is predicted for a normal core offload with fifty percent flow blockage. Nucleate boiling at the submerged depth of the racks would occur at approximately 252° F.

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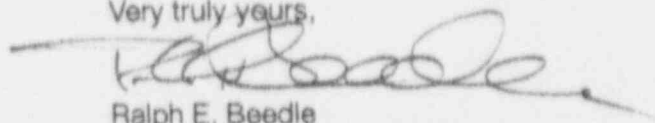
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The response of the racks to seismic events was also reanalyzed. This analysis shows that no rack-to-rack impacts would occur even with reduced spacing.

Supplement A summarizes the results of these new analyses.

If you have any questions, please contact Mr. J. A. Gray, Jr.

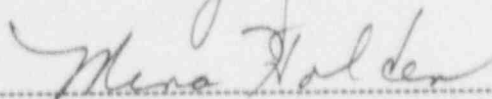
Very truly yours,



Ralph E. Beedle
Executive Vice President
Nuclear Generation

**STATE OF NEW YORK
COUNTY OF WESTCHESTER**

Subscribed and sworn to before me
this 12th day of July 1991.



Notary Public

MINA HOLDEN
NOTARY PUBLIC, State of New York
Westchester County
No. 4829150
My Commission Expires Aug. 31, 1994

Attachment

cc: Regional Administrator
U.S. Nuclear Regulatory Commission
475 Allendale Road
King of Prussia, PA 19406

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