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Executive Vice President  
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April 23, 1990  
JPN-90-033

U.S. Nuclear Regulatory Commission  
Mail Stop P1-137  
Washington, D.C. 20555

ATTN: Document Control Desk

Subject: James A. FitzPatrick Nuclear Power Plant  
Docket No. 50-333  
**Additional Information Regarding ATWS Rule, Relating to  
Alternate Rod Insertion (ARI) and Recirculation Pump Trip (RPT)**

- References:
1. NYPA letter, J. C. Brons to NRC, dated June 10, 1988, (JPN-88-030), regarding information concerning ARI and RPT systems.
  2. NRC letter, D. E. LaBarge to J. C. Brons, dated November 18, 1988, regarding "ATWS Implementation Status." (JAF-88-351)
  3. NRC Generic Letter 83-28, D. G. Eisenhower to all Licensees, dated July 8, 1983, "Required Actions Based On Generic Implications Of Salem ATWS Events."
  4. NYPA letter, J. C. Brons to NRC, dated October 23, 1989, (JPN-89-067), regarding Item 4.5.3 of Generic Letter 83-28, "Evaluation of Existing Intervals For Reactor Trip System Functional Testing"

Dear Sir:

In Reference 1, the Authority provided information concerning the Alternate Rod Insertion (ARI) system circuitry and the Recirculation Pump Trip (RPT) system modifications for the FitzPatrick plant to demonstrate compliance with the ATWS Rule. This letter included an analysis of the ARI and reactor protection system (RPS) separation design to comply with the ATWS Rule, 10 CFR 50.62, concerning diversity.

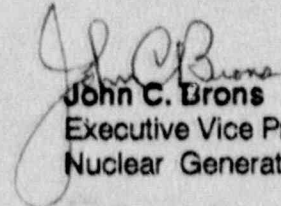
In Reference 2, the NRC identified additional information needed to complete the NRC's review of the ARI and RPT system. In response to this request, the following items are attached in order to facilitate NRC review. Attachment I is the system modification description for ARI and RPT system upgrade. Attachment II is the Nuclear Safety Evaluation, "ATWS RPT Initiation Logic and ARI/RPT Test Logic Upgrade." Attachment III provides the elementary and logic diagrams for the ARI and RPT actuation and channel testing.

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Should you or your staff have any questions regarding this matter, please contact Ms. Sofia M. Toth of my staff.

Very truly yours,

  
**John C. Brons**  
Executive Vice President  
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Enclosures

cc: U. S. Nuclear Regulatory Commission  
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ATTACHMENT I

**System Modification Description for**  
**Alternate Rod Insertion and**  
**Recirculation Pump Trip System Upgrade**

**New York Power Authority**  
JAMES A. FITZPATRICK NUCLEAR POWER PLANT  
Docket No. 50-333  
DPR-59