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Docket No. 50-333

Mr. George T. Berry  
President and Chief Operating Officer  
Power Authority of the State of New York  
New York, New York 10019

September 2, 1981

Dear Mr. Berry:

Subject: REACTOR PROTECTION SYSTEM (RPS) POWER MONITORING SYSTEM  
DESIGN MODIFICATION

RE: JAMES A. FITZPATRICK NUCLEAR POWER PLANT

By letter dated May 13, 1981 you submitted design information for the subject modification that you intend to install at your facility. We have reviewed this information and find that, to complete our evaluation, we will require the additional information requested in enclosure (1). Please provide this information within 60 days. However, if this schedule is inconsistent with priority requirements for other licensing work, please provide us with your proposed date of response within 30 days.

Enclosure (2) forwards, for your consideration, model Technical Specifications for Electric Power Monitoring for RPS. Submittal of the proposed Technical Specifications that you have committed to submit should be in the form of a request for modification of your license accompanied by an appropriate fee.

This request for information was approved by OMB under clearance number 3150-0011 which expires September 30, 1981. Comments on burden and duplication may be directed to the Office of Management and Budget, Reports Management, Room 3208, New Executive Office Building, Washington, D.C. 20503.

Thank you for your cooperation.

Sincerely,

*TSI*

Thomas A. Ippolito, Chief  
Operating Reactors Branch #2  
Division of Licensing



Enclosures:  
As Stated

cc: With Enclosures  
See next page

OFFICE	ORB#2	ORB#2	ORB#2	ORB#2	ORB#2		
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	8/20/81	8/20/81	8/24/81	8/1/81	8/2/81		

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Mr. George T. Berry

cc:

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RPS POWER SUPPLY DESIGN MODIFICATION

REQUEST FOR ADDITIONAL INFORMATION

JAMES A. FITZPATRICK NUCLEAR POWER PLANT

DOCKET NO. 50-333

1. Submit detailed drawings of the proposed design modification to the monitoring system for the RPS power supplies (MGs and alternate source). The drawings should include component ratings, and schematic and wiring diagrams. Detailed relay information may be submitted in the form of the manufacturers Technical Bulletin.
2. Submit a current revision of the electrical one-line diagram of the on-site distribution system and a schematic/elementary diagram that includes the RPS power distribution buses.
3. Provide justification that proposed time delays, if any, will not result in damage to RPS system components or affect the performance of required safety functions.
4. Provide justification that the design modification and components will meet the requirements of GDC 2 and GDC 21 of 10 CFR Part 50, Appendix A.
5. Specify monitoring system over-voltage, under-voltage, and under-frequency trip setpoints.

Enclosure (1)

## ELECTRICAL POWER SYSTEMS

### 3/4.8.2 ONSITE POWER DISTRIBUTION SYSTEMS

#### ELECTRIC POWER MONITORING FOR REACTOR PROTECTION SYSTEM

##### LIMITING CONDITION FOR OPERATION

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3.8.2.7 The power monitoring system for the in service RPS MG set or Alternate Source shall be OPERABLE.

APPLICABILITY: CONDITIONS 1 and 2.

##### ACTION:

With the power monitoring system for the in service RPS MG set or Alternate Source inoperable, restore the inoperable power monitoring system to OPERABLE status within 30 minutes or remove the RPS MG set or Alternate Source associated with the inoperable power monitoring system from service. One channel of a power monitoring system may be inoperable, as necessary for test or maintenance, not to exceed 8 hours/month.

##### SURVEILLANCE REQUIREMENTS

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4.8.2.7 The above specified RPS power monitoring system instrumentation shall be determined OPERABLE:

- a. At least once per six months by performing a CHANNEL FUNCTIONAL TEST; and
- b. At least once per operating cycle by demonstrating the OPERABILITY of over-voltage, under-voltage and under-frequency protective instrumentation by performance of a CHANNEL CALIBRATION including simulated automatic actuation of the protective relays, tripping logic and output circuit breakers and verifying the following setpoints.
  1. Over-voltage  $\leq$  \_\_\_\_\_ VAC,
  2. Under-voltage  $\geq$  \_\_\_\_\_ VAC, and
  3. Under-frequency  $\geq$  \_\_\_\_\_ Hz.