

October 19, 1982

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Docket No. 50-333

Mr. Leroy W. Sinclair
President and Chief Operating Officer
Power Authority of the State of New York
10 Columbus Circle
New York, New York 10019

Dear Mr. Sinclair:

SUBJECT: REACTOR PROTECTION SYSTEM (RPS) POWER MONITORING SYSTEM DESIGN
MODIFICATION, MULTIPLANT ACTION No. C-11

Re: James A. FitzPatrick Nuclear Power Plant

By letter dated November 2, 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 additional information. This additional information was discussed with your staff in a conference call on February 23, 1982 and is documented in the enclosed Request For Additional Information. This is to confirm that during a September 17, 1982 telephone discussion between J. Gray, PASNY, and J. Hegner, NRC, Mr. Gray stated that the requested information would be provided by October 15, 1982.

The reporting and/or recordkeeping requirements contained in this letter affect fewer than ten respondents; therefore, OMB clearance is not required under P.L. 96-511.

Sincerely,

ORIGINAL SIGNED BY

Domenic B. Vassallo, Chief
Operating Reactors Branch #2
Division of Licensing

cc w/enclosure
See next page

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DATE	10/19/82	10/19/82	10/19/82	10/19/82			

Mr. Leroy W. Sinclair
Power Authority of the State
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cc:

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King of Prussia, PA 19406

REQUEST FOR ADDITIONAL INFORMATION

FITZPATRICK

MONITORING OF ELECTRIC POWER TO THE REACTOR PROTECTION SYSTEM

- Ref. 1: PASNY letter (J. P. Payne) to NRC (T. A. Ippolito), dated November 2, 1981.
- Ref. 2: Telecon, Leon Guaquil (PASNY), Jose Gonsaga (PASNY), Joe Hegner (NRC) Iqbal Ahmed (NRC), and James Selan (LLNL), dated February 23, 1982.

A telecon discussion of the selected setpoints [Ref. 1] and the nominal voltage at the sensing packages was held on February 23, 1982 [Ref. 2]. The following information was presented:

- (1) The nominal voltage at the sensing packages is 120 volts since the distance from the MG output to EPA's is approximately 20 feet.
- (2) There is approximately a 4-volt drop from the MG output to the RPS bus, thus insuring voltage at the downstream components of 115 volts.
- (3) The setpoints of the EPA's for monitoring the MG output are:

Overvoltage = + 10% of 120 volts nominal

Undervoltage = - 10% of 120 volts nominal

Underfrequency = 57.6 Hz

Time Delay = Using the minimum GE setting resulted in actual time delays of 125-135 milliseconds.

- (4) The setpoints for the EPA's monitoring the alternate source were changed to reflect the voltage transient of -13% for 3.5 seconds when starting the condensate booster pump. This change would allow the selection of setpoints to be within the design capability of the GE EPA's. The following setpoints were selected:

Overvoltage = +10% of 120 volts, time delay of 1.8 secs.

Undervoltage = -15% of 120 volts, time delay of 2.7 secs.

Underfrequency = 57.6 Hz, time delay of 1.8 secs.

These setpoints were to be finalized upon completion of voltage profile testing.

Verify through the RPS component manufacturers that the final setpoints selected for monitoring the alternate source will provide component protection and ensure adequate operating voltages for the downstream RPS components. Submit this verification.