POWER AUTHORITY OF THE STATE OF NEW YORK
JAMES A. FITZPATRICK NUCLEAR POWER PLANT

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March 4, 1980

SERIAL: JAFP-80-189

Mr. Boyce H. Grier, Director
United States Nuclear Regulatory Commission
Region I
631 Park Avenue
King of Prussia, Pennsylvania 19406

SUBJECT: I & E BULLETIN 79-27 - LOSS OF NON-CLASS 1-E INSTRUMENTATION AND CONTROL POWER SYSTEMS DURING PLANT OPERATION

Dear Mr. Grier:

The plant staff has completed a comprehensive review of control and instrumentation power systems at the James A. FitzPatrick Nuclear Power Plant as required by I & E Bulletin 79-27. This review included:

1. An identification of control and instrument power systems connected to each bus and an evaluation of the effect of loss of power with regard to achieving the cold shutdown condition.

2. A determination of the alarm and indications available to the operator to alert him of the loss of power.

3. A review of plant procedures to assure adequacy with regard to repowering of affected buses, use of alternate indication and control, and the ability to achieve cold shutdown.

4. A re-review of I & E Circular 79-02, Failure of 120 Volt Vital AC Power Supplies. This review indicated the following:

   a. The time delays associated with protective trips on the Uninterruptable Power Supply Motor Generator (UPS MG) require additional evaluation to provide complete assurance that the delays selected by the designer are appropriate when the vital nature of the components supplied is considered. The FitzPatrick plant staff will undertake the additional evaluation and test the UPS MG set during the forthcoming refueling outage (if necessary to provide assurance that the time delays are optimum).

b. For both the UPS MG and those other power supplies to both class 1E and non-1E, instrument and control systems input voltage is controlled (or limited) such that optimum availability of the power supply is afforded.

c. The operating history of transfer circuits associated with instrument and control power supplies does not indicate any deficiency. In addition, a review of transfer circuit initiating setpoints indicates that availability of the power supplies is optimum.

d. Administrative controls utilized for the control of maintenance and test activities provide adequate assurance of operability of the power systems and their subcomponents following maintenance or test activity.

In view of this review, the plant staff does not believe that any plant modifications are required. Adequate indication is available to the operator for identification of loss of power conditions. Adequate redundancy exists for critical plant parameters and for systems used to bring the plant to the cold shutdown condition.

Very truly yours,

John D. Leonard, Jr.
Resident Manager

JDL/RC:sw

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