

POWER AUTHORITY OF THE STATE OF NEW YORK

JAMES A. FITZPATRICK NUCLEAR POWER PLANT



JOHN D. LEONARD, JR.
Resident Manager

October 16, 1979
JAFP 79-562

P.O. BOX 41
Lycoming, New York 13093

315-342-3840

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

SUBJECT: NRC BULLETIN 79-23 - POTENTIAL FAILURE OF EMERGENCY DIESEL
GENERATOR FIELD EXCITER TRANSFORMER

Dear Mr. Grier:

The FitzPatrick plant staff has completed its review of the subject bulletin and the results of that review are presented below in the same order as indicated in the bulletin.

- 1) a) A review of the Bruce GM Diesel Instruction and Parts Manual and the JAFNPP electrical elementary drawings shows no location where low KVA rated transformers used in the static exciter and voltage regulator are connected to the neutral or station ground on the primary side of the transformer. With the exception of one such saturable transformer for each emergency diesel generator located in the high voltage section of the exciter, all of the transformers are made up in an "open delta" configuration.

A physical inspection of one emergency generator has been conducted to verify that the actual installation and the related drawings are in agreement. Based on this inspection and the review of the drawings, the FitzPatrick Plant staff has reached the conclusion that the subject bulletin does not apply to the emergency diesel generators installed at the FitzPatrick Plant.

- b) The FitzPatrick Plant staff was notified on October 8, 1979, by the emergency diesel generator vendor that a review of their records had resulted in the conclusion that the subject bulletin does not apply to the emergency diesel generators installed at the FitzPatrick Plant. Specifically, the vendor noted that the excitation power transformer (EPT) referenced in this Bulletin is an Electro-Motive Division product that is not installed at the FitzPatrick Plant.

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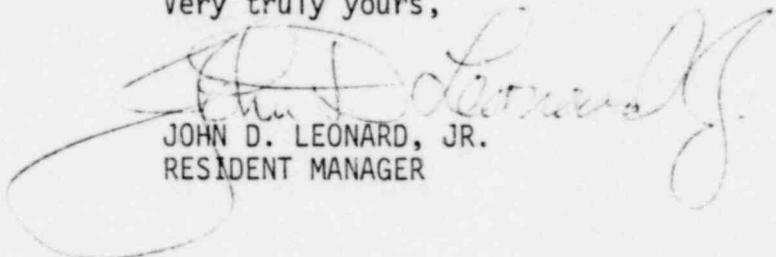
2) The FitzPatrick Plant staff has reviewed the records of factory and pre-operational testing conducted on the emergency diesel generators. This review indicates that the following testing was conducted with satisfactory results:

- a) Factory Tests - 2 Hours at Full Load and 1 Hour at 110% of rated load. No long duration (24 hours or more) test was conducted.
- b) Pre-operational Testing - 1 Hour at Full Load Test and 2 Hours at 110% Load. No long duration (24 hours or more) test was required and none was performed.

In addition to the above listed testing, it should be noted that the FitzPatrick Plant routinely tests the emergency diesel generators at full load for a 1 hour period each month in accordance with the requirements of Technical Specifications and on several occasions, the emergency diesel generators have been operated for periods of several days (at somewhat below the full load rating). In each case, voltage and frequency requirements have been maintained and no indication of any cooling system malfunction or inadequacy has been evident.

In view of these findings, the FitzPatrick Plant does not consider that a long duration (24 hours or more) full load test designed to demonstrate that circulating currents will not cause damage to excitation and control power transformers is warranted and therefore none is scheduled.

Very truly yours,


JOHN D. LEONARD, JR.
RESIDENT MANAGER

JDL:VC:brp

CC: G. T. Berry, PASNY, NYO
G. A. Wilverding, PASNY, NYO
P. W. Lyon, PASNY, NYO
J. F. Davis, PASNY, NYO
M. C. Cosgrove, PASNY, JAF
R. J. Pasternak, PASNY, JAF
H. Keith, PASNY, JAF
J. R. Hoddy, PASNY, JAF
Document Control Center

U.S. Nuclear Regulatory Commission
Office of Inspection & Enforcement
Division of Reactor Operations Inspection
Washington, D.C. 20555

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