

LICENSEE EVENT REPORT

CONTROL BLOCK: _____

(PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

01 | NYJAFI | 200-0000-0000 | 341111 | 4 | 5

CON'T

01 | REPORT SOURCE | L60500033370823820321849

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

02 | During normal operation, Emergency Diesel Generators (EDG) A and C
03 | were declared inoperable due to air baffle deformation resulting
04 | from excessive temperature following modification of the winding space
05 | heaters. The diesel generators were required to be operable by
06 | TS 3.9.B. EDG B and D were tested and were fully operable. No
07 | significant hazard existed.

08 | _____

09 | EE | B | B | GENERA | D | Z

17 | 82 | 039 | 03 | X | 1

FZ | Z | Z | 0000 | Y | Y | A | E139

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

10 | The event cause was overheating of a ventilation cowling within the
11 | generators due to an original design error. The space heaters were
12 | deenergized and EDG A and C were returned to service. Modification of
13 | the cowling and heaters corrects the design error. See attachment for
14 | details.

15 | E | 100 | NA | B | Operator Noticed Odor

16 | Z | Z | NA | NA

17 | 000 | Z | NA

18 | 000 | NA

19 | Z | NA

20 | N | NA

NAME OF PREPARER Victor Walz

PHONE 315-342-3840 ext. 265

8404030237 840321
 PDR ADDOCK 05000333
 S PDR

NRC USE ONLY

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

DOCKET NO. 50-333

ATTACHMENT TO LER 82-039/03X-1

PAGE 1 of 1

CAUSE DESCRIPTION AND CORRECTION ACTIONS (Continued)

During normal operation on August 23, 1982, following installation of a modification to upgrade the Emergency Diesel Generator (EDG) winding space heater capacity on EDG A and C from 750 to 3000 watts, EDG A and C were declared inoperable when required by Technical Specification 3.9.B. Shortly after performing the modification and energizing of the winding space heaters an odor was noted to be emitting from the vicinity of the generator winding space heaters. EDG A and C were declared inoperable to facilitate investigation and EDG B and D were immediately verified operable as required by Technical Specifications.

This modification to increase the generator winding space heater capacity was prompted by a review of winding insulation resistance measurements (polarization index) and a review of vendor drawings. The overheating of the ventilation cowling, although caused directly by the increased heating capacity, actually resulted from the previous long term degradation of the cowling, which caused it to bulge in the direction of the space heaters. The space heaters were temporarily de-energized and the diesel generators were declared operable after a detailed inspection.

With assistance from the vendor the cowling was modified on March 11, 1984. This modification consisted of replacement of the damaged fiberglass lower cowling with a stainless steel sheet metal cowling. The space heaters were also modified as determined by the vendor. The space heating requirements were reduced from 3000 watts to 2250 watts thereby allowing for the use of lower watt density electric space heaters. Because a sufficient number of space heaters were not available during a ten day outage which commenced March 2, 1984 only one pair of generators was modified. This modification ensures safety design by reducing long term degradation of generator insulation which could lead to generator failure and loss of part of the emergency AC power system. The cowling in addition to controlling the flow of cooling air in the generator provides shielding of the stator winding from the radiant heat of the space heaters. The space heater maintains the temperature of the generators above ambient temperature which reduces the absorption of moisture by the insulation of the windings. The absorption of moisture has a significant affect on the dielectric characteristics of insulation. The other pair of generators will be modified before startup from the spring 1985 refueling outage. No additional revisions to this LER will be submitted.

James A. FitzPatrick
Nuclear Power Plant
P.O. Box 41
Lycoming, New York 13093
315 342.3840



Corbin A. McNeill, Jr.
Resident Manager

March 21, 1984
JAFF 34-0318

Dr. Thomas E. Murley
Regional Administrator
United States Nuclear Regulatory Commission
Region I
631 Park Avenue
King of Prussia, Pennsylvania 19406

SUBJECT: DOCKET NO. 50-333
LICENSEE EVENT REPORT: 82-039/03X-1

Dear Dr. Murley:

We have enclosed the subject Licensee Event Report in accordance with NUREG 0161 and USNRC Regulatory Guide 1.16.

If there are any questions concerning this report, please contact Mr. Victor Walz at (315) 342-3840, extension 265.

Very truly yours,

A handwritten signature in cursive script, appearing to read 'Corbin A. McNeill, Jr.'.

CORBIN A. McNEILL, JR.

CAM:VW:lad
ENCLOSURE

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