

LICENSEE EVENT REPORT

CONTROL BLOCK:

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(PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

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7	8	14						15	25										26	30					57	CAT	58		
		LICENSEE CODE							LICENSE NUMBER											LICENSE TYPE									

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0 1 7 8 REPORT SOURCE L 6 0 5 0 0 0 3 1 1 7 2 2 0 7 8 3 8 1 2 3 0 8 3 9
60 61 DOCKET NUMBER 68 69 EVENT DATE 74 75 REPORT DATE 80

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

0 2 | On December 7, 1983, during a maintenance shutdown, 2B Diesel Generator voltage
0 3 | regulator failed during surveillance testing of the diesel, causing the generator
0 4 | breaker to trip on overcurrent. 2B Diesel was declared inoperable. As required by
0 5 | the Technical Specifications, two diesels were maintained in an operable status.
0 6 | Therefore, no undue risk to the health or safety of the public was involved. This
0 7 | report is submitted for informational purposes in accordance with Surveillance
0 8 | Requirement 4.8.1.1.4.

SYSTEM CODE E E 11		CAUSE CODE E 12		CAUSE SUBCODE A 13		COMPONENT CODE T R A N S F 14		COMP. SUBCODE Z 15		VALVE SUBCODE Z 16							
EVENT YEAR 8 3 21 22		SEQUENTIAL REPORT NO. 0 6 5 24 26		OCCURRENCE CODE 0 3 28 29		REPORT TYPE L 30		REVISION NO. 0 32									
ACTION TAKEN X 18		FUTURE ACTION A 19		EFFECT ON PLANT Z 20		SHUTDOWN METHOD Z 21		HOURS 0 0 0 0 22		ATTACHMENT SUBMITTED Y 23		NPRD-4 FORM SUB. Y 24		PRIME COMP. SUPPLIER A 25		COMPONENT MANUFACTURER B 0 9 3 26	

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

1 0 2B Diesel Generator voltage regulator control power transformer was grounded. This

1 1 is the first failure of this sort experienced at Salem. A replacement transformer

1 2 was obtained from the vendor and is being replaced at this time.

1 3

1 4

FACILITY STATUS (1) 5 (G) (28) % POWER (0) (0) (0) (29) OTHER STATUS (30) NA METHOD OF DISCOVERY (B) (31) Routine Surveillance DISCOVERY DESCRIPTION (32)

ACTIVITY CONTENT RELEASED OF RELEASE (1) 6 (Z) (33) (Z) (34) NA AMOUNT OF ACTIVITY (35) LOCATION OF RELEASE (36)

PERSONNEL EXPOSURES NUMBER (1) 7 (0) (0) (0) (37) (Z) (38) NA DESCRIPTION (39)

PERSONNEL INJURIES NUMBER (1) 8 (0) (0) (0) (40) NA DESCRIPTION (41)

LOSS OF OR DAMAGE TO FACILITY TYPE (1) 9 (Z) (42) NA DESCRIPTION (43)

PUBLICITY ISSUED (2) 0 (N) (44) NA DESCRIPTION (45)

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 PDR ADOCK 05000311
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NRC USE ONLY

IE22S

NAME OF PREPARER

J. L. Rupp

PHONE: (609) 339-4309

NRC USE ONLY

0 26 7 1 7 4 4 2 0



Public Service Electric and Gas Company P.O. Box E Hancocks Bridge, New Jersey 08038

Salem Generating Station

December 30, 1983

Dr. Thomas E. Murley
Regional Administrator
USNRC
Region 1
631 Park Avenue
King of Prussia, Pennsylvania 19406

Dear Dr. Murley:

LICENSE NO. DPR-75
DOCKET NO. 50-311
REPORTABLE OCCURRENCE 83-065/03L

Pursuant to the requirements of Salem Generating Station Unit No. 2, Technical Specifications, Section 6.9.1.9.b, we are submitting Licensee Event Report for Reportable Occurrence 83-065/03L. This report is required within thirty (30) days of the occurrence.

Sincerely yours,

A handwritten signature in dark ink, appearing to read "J. M. Zupko, Jr.", is written above the typed name.

J. M. Zupko, Jr.
General Manager -
Salem Operations

JR:k11 *JSJ*

CC: Distribution

Report Number: 83-065/03L
Report Date: 12-30-83
Occurrence Date: 12-07-83
Facility: Salem Generating Station Unit 2
Public Service Electric & Gas Company
Hancock's Bridge, New Jersey 08038

IDENTIFICATION OF OCCURRENCE:

Electrical Power Systems - 2B Diesel Generator - Test Failure

This report was initiated by Incident Report 83-222

CONDITIONS PRIOR TO OCCURRENCE:

Mode 5 - Rx Power 000 % - Unit Load 0000 MWe

This report describes a valid test failure involving 2B Diesel Generator occurring on December 7, 1983. This report is submitted for informational purposes in accordance with Technical Specification Surveillance Requirement 4.8.1.1.4, and contains the information required by Regulatory Guide 1.108, Revision 1, August 1977, Regulatory Position C.3.b.

Surveillance Requirement 4.8.1.1.4 states:

All diesel generator failures, valid or non-valid, shall be reported to the Commission pursuant to Specification 6.9.1.

DESCRIPTION OF OCCURRENCE:

On December 7, 1983, during a maintenance shutdown, 2B Diesel Generator was being tested in accordance with Surveillance Procedure SP(0)4.8.1.1.2. The generator had been running in parallel with the grid for twenty-seven (27) minutes. At 0133 hours, the diesel output voltage increased to approximately 5000 volts. The voltage could not be decreased using the manual or automatic voltage controls, and the diesel generator breaker tripped on overcurrent. 2B Diesel was declared inoperable, and a work order was generated to investigate the problem.

Prior to this event, the test interval for the diesel generators was seven (7) days. This occurrence marked the fourth (4th) failure of a diesel generator in the last 100 valid tests. The last valid test failure occurred on November 18, 1983, involving 2C Diesel, and the events associated with that occurrence were documented in LER 83-063/03L. Due to this failure, the frequency for diesel generator testing has been increased to 3 days, in accordance with Regulatory Guide 1.108, Regulatory Position C.2.d.(4).

APPARENT CAUSE OF OCCURRENCE:

Investigation revealed that 2B Diesel Generator voltage regulator control power transformer was grounded. The voltage regulator, sensing no output voltage, increased excitation, causing generator output voltage to increase. The generator terminal voltage increase resulted in the generator assuming reactive loads and consequently tripping on overcurrent. This is the first failure of a voltage regulator control power transformer experienced at Salem Generating Station.

ANALYSIS OF OCCURRENCES:

As required by the Technical Specifications, during plant shutdown operations, mode 5, two diesel generator units were maintained in an operable status at all times. This occurrence involved no undue risk to the health or safety of the public.

CORRECTIVE ACTION:

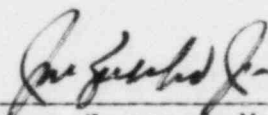
The below listed transformer is an obsolete model, no longer available. The replacement transformer, recommended by the vendor, is Model BE 13487-001. This transformer has been obtained, and is presently being seismically qualified for use.

FAILURE DATA:

Basler Electric Company
Transformer - 1 KVA
BE 10773-001

Prepared By J. Rupp

SORC Meeting No. 83-154



General Manager -
Salem Operations