

LICENSEE EVENT REPORT

CONTROL BLOCK: 1 (PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

01 N J S G S 1 2 0 0 - 0 0 0 0 0 - 0 0 3 4 1 1 1 1 4 5

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

CON'T

01 L 6 0 5 0 0 0 2 7 2 7 1 1 1 5 8 3 8 1 2 1 3 8 3 9

REPORT SOURCE 60 61 DOCKET NUMBER 68 69 EVENT DATE 74 75 REPORT DATE 80

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES 10

02 On November 15, 1983, during routine power operation, No. 11 Containment Hydrogen

03 Analyzer channel exhibited a low output during routine calibration checks. The channel

04 was declared inoperable and Technical Specification Action Statement 3.6.4.1 was

05 entered at 2230 hours. The redundant hydrogen analyzer channel remained operable

06 throughout the occurrence. No undue risk to the health or safety of the public was

07 involved. Because the event constituted operation in a degraded mode permitted by a

08 limiting condition for operation, it is therefore reportable in accordance with Tech-

09 nical Specification 6.9.1.9b.

09 S E 11 E 12 E 13 I N S T R U 14 E 15 Z 16

SYSTEM CODE 9 10 CAUSE CODE 11 CAUSE SUBCODE 12 COMPONENT CODE 13 18 COMP. SUBCODE 19 VALVE SUBCODE 20

17 8 3 0 5 7 0 3 L 0

LER NO. REPORT NUMBER 21 22 SEQUENTIAL REPORT NO. 23 26 OCCURRENCE CODE 27 29 REPORT TYPE 30 31 REVISION NO. 32

C 18 Z 19 Z 20 Z 21 0 0 0 0 Y 23 Y 24 L 25 X 9 9 9 26

ACTION TAKEN 33 FUTURE ACTION 34 EFFECT ON PLANT 35 SHUTDOWN METHOD 36 HOURS 37 40 ATTACHMENT SUBMITTED 41 NPD-4 FORM SUB. 42 PRIME COMP. SUPPLIER 43 COMPONENT MANUFACTURER 44 47

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS 27

10 The cause was a failed detector. The detector was replaced, calibrated and

11 No. 11 Hydrogen Analyzer channel was declared operable. Technical Specification

12 Action Statement 3.6.4.1 was terminated at 1530 hours, November 16, 1983.

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15 E 28 1 0 0 29 N/A B 31 Routine Calibration Check 32

FACILITY STATUS 7 8 9 % POWER 10 12 OTHER STATUS 13 30 METHOD OF DISCOVERY 45 46 DISCOVERY DESCRIPTION 47 80

16 Z 33 Z 34 N/A N/A 36

ACTIVITY CONTENT 7 8 9 RELEASED OF RELEASE 10 11 AMOUNT OF ACTIVITY 12 44 LOCATION OF RELEASE 45 80

17 0 0 0 37 Z 38 N/A 39

PERSONNEL EXPOSURES 7 8 9 NUMBER 10 11 TYPE 12 13 DESCRIPTION 14 39

18 0 0 0 40 N/A 41

PERSONNEL INJURIES 7 8 9 NUMBER 10 11 DESCRIPTION 12 41

19 Z 42 N/A 43

LOSS OF OR DAMAGE TO FACILITY 7 8 9 TYPE 10 11 DESCRIPTION 12 43

20 N 44 N/A 45

PUBLICITY 7 8 9 ISSUED DESCRIPTION 10 45

20 N 44 N/A 45

8312300166 831213
PDR ADOCK 05000272
S PDR

NRC USE ONLY

NAME OF PREPARER J. L. Rupp PHONE: (609) 339-4309



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

Salem Generating Station

December 13, 1983

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

Dear Dr. Murley:

LICENSE NO. DPR-70
DOCKET NO. 50-272
REPORTABLE OCCURRENCE 83-057/03L

Pursuant to the requirements of Salem Generating Station Unit No. 1, Technical Specifications, Section 6.9.1.9.b, we are submitting Licensee Event Report for Reportable Occurrence 83-057/03L. This report is required within thirty (30) days of the occurrence.

Sincerely yours,

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

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

JR:k11764

CC: Distribution

Report Number: 83-057/03L
Report Date: 12-13-83
Occurrence Date: 11-15-83
Facility: Salem Generating Station Unit 1
Public Service Electric & Gas Company
Hancock's Bridge, New Jersey 08038

IDENTIFICATION OF OCCURRENCE:

Containment Systems - No. 11 Hydrogen Analyzer - Inoperable.

This report was initiated by Incident Report 83-207.

CONDITIONS PRIOR TO OCCURRENCE:

Mode 1 - Rx Power 100 % - Unit Load 1150 MWe.

DESCRIPTION OF OCCURRENCE:

At 2230 hours, November 15, 1983, during routine power operation, while performing calibration checks of No. 11 Containment Hydrogen Analyzer, the channel exhibited a low output (reading 0.3% for a required 2.0% reading and 0.8% for a required 6% reading). Channel No. 11 was declared inoperable and Technical Specification Action Statement 3.6.4.1 was entered. The redundant hydrogen analyzer channel was operable throughout the occurrence and indicated that the hydrogen level in the Containment Building was normal at all times.

APPARENT CAUSE OF OCCURRENCE:

The cause was a failed detector.

ANALYSIS OF OCCURRENCE:

The operability of the equipment and systems required for the detection and control of hydrogen gas ensures that this equipment will be available to maintain the hydrogen concentration within the containment below its flammable limit during post-LOCA conditions.

Action Statement 3.6.4.1 requires:

With one hydrogen analyzer inoperable, restore the inoperable analyzer to operable status within 30 days or be in at least hot standby within the next 6 hours.

As noted, the redundant hydrogen analyzer channel was operable throughout the occurrence. No. 11 Hydrogen Analyzer was restored to operation within the time specified by the action requirement. No undue risk to the the health or safety of the public was involved in the event. Because the event constituted operation in a degraded mode permitted by a limiting condition for operation, the occurrence is reportable in accordance with Technical Specification 6.9.1.9b.

CORRECTIVE ACTION:

Initial investigation indicated a detector failure or a defective strainer on the test device could have caused the low readings during the calibration checks. The detector and the strainer were replaced. The system was checked for leaks, and a calibration check was again performed, this time with the detector responding correctly. No. 11 Hydrogen Analyzer was declared operable and Technical Specification Action Statement 3.6.4.1 was terminated at 1530 hours, November 16, 1983.

A test was performed on the detector that was removed; it exhibited the same (low reading) characteristics, and the cause was attributed to a failed detector. No previous detector failures have been noted in the past. No further corrective action was deemed necessary.

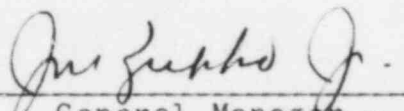
Attempts to decontaminate the detector were not successful; therefore it could not be shipped to the vendor for inspection.

FAILURE DATA:

Hydrogen Analyzer
Exo-Sensor Inc.
Detector

Prepared By J. Rupp

SORC Meeting No. 83-148


General Manager -
Salem Operations