NRC Form 3.8
(9-83)

U.S. NUCLEAR REGULATORY COMMISSION
APPROVED OMB NO. 3150-0104
EXPIRES: 8/31/85

# LICENSEE EVENT REPORT (LER)

| FACILITY NAME (1) | DOCKET NUMBER (2) | PAGE (3) |
|---|---|---|
| Susquehanna Steam Electric Station-Unit 1 | 0 5 0 0 0 3 8 7 | 1 OF 0 2 |

TITLE (4)
Off-Gas Hydrogen Analyzers - Missed Surveillance

| EVENT DATE (5) | | | LER NUMBER (6) | | | REPORT DATE (7) | | | OTHER FACILITIES INVOLVED (8) | |
|---|---|---|---|---|---|---|---|---|---|---|
| MONTH | DAY | YEAR | YEAR | SEQUENTIAL NUMBER | REVISION NUMBER | MONTH | DAY | YEAR | FACILITY NAMES | DOCKET NUMBER(S) |
| 0 2 | 2 5 | 8 4 | 8 4 | 0 1 2 | 0 1 | 0 6 | 1 4 | 8 4 | | 0 5 0 0 0 |
| | | | | | | | | | | 0 5 0 0 0 |

| OPERATING MODE (9) | 1 | THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check one or more of the following) (11) | | | |
|---|---|---|---|---|---|
| POWER LEVEL (10) | 0 5 5 | 20.402(b) | 20.405(c) | 50.73(a)(2)(iv) | 73.71(b) |
| | | 20.405(a)(1)(i) | 50.36(a)(1) | 50.73(a)(2)(v) | 73.71(c) |
| | | 20.405(a)(1)(ii) | 50.36(c)(2) | 50.73(a)(2)(vii) | OTHER (Specify in Abstract below and in Text, NRC Form 366A) |
| | | 20.405(a)(1)(iii) | X 50.73(a)(2)(i) | 50.73(a)(2)(viii)(A) | |
| | | 20.405(a)(1)(iv) | 50.73(a)(2)(ii) | 50.73(a)(2)(viii)(B) | |
| | | 20.405(a)(1)(v) | 50.73(a)(2)(iii) | 50.73(a)(2)(x) | |

LICENSEE CONTACT FOR THIS LER (12)

| NAME | TELEPHONE NUMBER |
|---|---|
| B.L. Wilks | AREA CODE 7 1 7 5 4 2 - 3 2 3 9 |

COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)

| CAUSE | SYSTEM | COMPONENT | MANUFACTURER | REPORTABLE TO NPRDS | | CAUSE | SYSTEM | COMPONENT | MANUFACTURER | REPORTABLE TO NPRDS | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| D | W F | A C | X 9 9 9 | N | | | | | | | |
| | | | | | | | | | | | |

| SUPPLEMENTAL REPORT EXPECTED (14) | | EXPECTED SUBMISSION DATE (15) | MONTH | DAY | YEAR |
|---|---|---|---|---|---|
| YES (If yes, complete EXPECTED SUBMISSION DATE) | X NO | | | | |

ABSTRACT (Limit to 1400 spaces, i.e., approximately fifteen single-space typewritten lines) (16)


During February, 1984, the functional testing requirements of SI-072-201, "Monthly Functional Test of Off-Gas Hydrogen Analyzers AIT-06973A, B" were scheduled to be met by the performance of the quarterly surveillance procedure, SI-072-301. The due date and violation date were, however, inadvertently omitted from the Surveillance Authorization (SA) cover sheet for SI-072-301; as a result, the foreman was unaware of the violation date for the test. The functional test was completed for the Hydrogen Analyzer Channel A of the Off-Gas System on 2/23/84 and for Channel B on 2/29/84. The violation date was 2/25/84. The missed surveillance for the Channel B Hydrogen Analyzer was discovered at 1400 hours on February 29, 1984 upon completion of SI-072-301.

1 Corrective actions were taken by changes in administrative procedures that require the inclusion of a statement in the Surveillance Authorization Cover Sheet for surveillance testing requirements needing to be met by a similar procedure of different surveillance frequencies.

Since the Off-Gas System Hydrogen Recombiner functioned properly, no abnormal concentrations of $H_2$ occurred and diverse system isolation/alarms existed. The health and safety of the public was not affected.




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| FACILITY NAME (1) | DOCKET NUMBER (2) | LER NUMBER (6) | | | PAGE (3) |
|---|---|---|---|---|---|
| | | YEAR | SEQUENTIAL NUMBER | REVISION NUMBER | |
| Susquehanna Steam Electric Station Unit 1 | 0 5 0 0 0 3 8 7 | 8 4 | — 0 1 2 | — 0 1 | 0 2 OF 0 2 |

TEXT (If more space is required, use additional NRC Form 366A's) (17)

During the month of February (1984), the testing requirements as required by Technical Specification 4.3.7.11 for the performance of SI-072-201, "Monthly Functional Test of Off-Gas Hydrogen Analyzers AIT-06973A,B", were scheduled to be met by the performance of the quarterly (calibration) surveillance procedure SI-072-301. The due date and violation date were, however, inadvertently omitted from the Surveillance Authorization (SA) cover sheet for the quarterly calibration procedure, SI-072-301, and as a result, the foreman was not aware that the violation date for the monthly functional test was 2/25/84. Functional testing of Hydrogen Analyzer Channel A was completed on 2/23/84, two days before the violation date. Hydrogen Analyzer Channel B was functionally tested on 2/29/84, four days following the violation date. The missed surveillance for the Channel B Hydrogen Analyzer was discovered at 1400 hours on February 29, 1984 upon completion of the quarterly surveillance procedure SI-072-301. Hydrogen Analyzer Channel A was properly surveilled and operational during this event.

A review of Unit 1 operating power history indicates the plant was at approximately 50% power for nineteen hours on February 25, 1984, shutdown during February 26 and 27, 1984, in startup for four hours on February 28, 1984 and at a maximum power level of 45% on February 29, 1984. The Hydrogen Analyzers for the Off-Gas System are required to be functioning when the Off-Gas System and hence Unit 1 is operational.

Data recorded during the period of this event indicates the percent of $H_2$ as recorded for (redundant) Channels A and B of the Hydrogen Analyzers shows no changes in the percent of $H_2$ by either channel. The $H_2$ recombiner outlet temperature, as recorded during the event, indicates the recombiners were operational and that no abnormal $H_2$ concentrations existed in the Off-Gas Stream. Furthermore, all twenty-four Off Gas System alarms and the six alarm functions (i.e. result in Off-Gas System isolation) remained operable. Had an excessive amount of $H_2$ gas entered the Off-Gas System between February 25 and February 29, 1984, while Unit 1 was operating, the missed surveillance on Hydrogen Analyzer Channel B would not have prevented the system from functioning as it was designed.

Corrective actions were taken thru changes in Administrative Procedure AD-QA-422, "Surveillance Testing Program", by the inclusion of the statement "Satisfies surveillance requirement _____ due ____/____/____ violation date ____/____/____."
(Specify)
in the REMARKS section of the Surveillance Authorization Cover Sheet when similar testing requirements are to be met by a similar procedure of different surveillance frequency. This change makes personnel aware of the surveillance requirement date and its corresponding violation date.

Since the Off-Gas System Hydrogen Recombiner functioned properly, no abnormal concentrations of $H_2$ occurred and diverse system isolation/alarms existed. The health and safety of the public was not affected.

PP&L Pennsylvania Power & Light Company
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June 14, 1984

U.S. Nuclear Regulatory Commission
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Washington, DC 20555

SUSQUEHANNA STEAM ELECTRIC STATION
LICENSEE EVENT REPORT 84-012-01
ER 100450 FILE 841-23 Docket No. 50-387
PLA-2238 License No. NPF-14

Attached is Licensee Event Report No. 84-012-01. This event was originally determined to be reportable per 10CFR50.73(a)(2)(i) in that functional testing of the Common Off-Gas System Hydrogen Analyzer Channel B, required by February 25, 1984 in accordance with Technical Specification 4.3.7.11, was not performed until February 29, 1984. Revision 1 of the Licensee Event Report is provided for additional information concerning the corrective actions taken as a result of this event.

H.W. Keiser
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BLW/pjg

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