

ACCELERATED DISTRIBUTION DEMONSTRATION SYSTEM

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: 8912120130 DOC. DATE: 89/12/05 NOTARIZED: NO DOCKET #
 FACIL: 50-388 Susquehanna Steam Electric Station, Unit 2, Pennsylv 05000388
 AUTH. NAME AUTHOR AFFILIATION
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 BYRAM, R.G. Pennsylvania Power & Light Co.
 RECIP. NAME RECIPIENT AFFILIATION

SUBJECT: LER 89-015-00: on 891105, B standby gas treatment sys automatic start.

w/8 ltr.

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 TITLE: 50.73/50.9 Licensee Event Report (LER), Incident Rpt, etc.

NOTES: LPDR 1 cy Transcripts. 05000388

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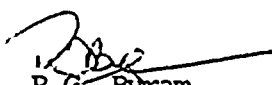
December 5, 1989

U.S. Nuclear Regulatory Commission
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Washington, DC 20555

SUSQUEHANNA STEAM ELECTRIC STATION
LICENSEE EVENT REPORT 89-015-00
FILE R41-2
PIAS -397

Docket No. 50-388
License No. NPF-22

Attached is Licensee Event Report 89-015-00. This event was determined to be reportable per 10CFR50.73(a)(2)(iv) in that an unplanned Engineered Safety Feature actuation occurred when the 'B' Standby Gas Treatment System automatically started on a high inlet header pressure signal.


R.G. Byram
Superintendent of Plant - Susquehanna

RRW/mjm

cc: Mr. W.T. Russell
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PDR AIDUCK 05000388
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LICENSEE EVENT REPORT (LER)

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST: 50.0 HRS. FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE RECORDS AND REPORTS MANAGEMENT BRANCH (P-530), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20555, AND TO THE PAPERWORK REDUCTION PROJECT (3150-0104), OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503.

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

TITLE (4)
'B' Standby Gas Treatment System Automatic Start

| 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) |
| 1 | 1 | 0 5 8 9 | 8 9 | 0 1 5 | 0 0 | 1 | 2 | 0 5 8 9 | | | 0 5 0 0 0 |

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|---------------------------|--|------------------|-------------------------------------|----------------------|---|--|--|--|--|--|--|
| OPERATING MODE (9) 4 | THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check one or more of the following) (11) | | | | | | | | | | |
| POWER LEVEL (10) 0 0 0 | 20.402(b) | 20.405(c) | <input checked="" type="checkbox"/> | 50.73(a)(2)(iv) | 73.71(b) | | | | | | |
| | 20.405(a)(1)(i) | 50.36(c)(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 365A) | | | | | | |
| | 20.405(a)(1)(iii) | 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 Richard R. Wehry - Power Production Engineer - Compliance | TELEPHONE NUMBER 7 1 7 5 4 2 1 - 3 6 6 4 |
|---|---|

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 |
|-------|--------|-----------|--------------|---------------------|-------|--------|-----------|--------------|---------------------|
| | | | | | | | | | |
| | | | | | | | | | |

SUPPLEMENTAL REPORT EXPECTED (14)

YES (If yes, complete EXPECTED SUBMISSION DATE) NO

EXPECTED SUBMISSION DATE (15)

| MONTH | DAY | YEAR |
|-------|-----|------|
| | | |

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

On November 5, 1989 at 1418 hours, with Unit 2 in Condition 4 at 0% power, an automatic start of the 'B' Standby Gas Treatment System (SGTS) occurred during suppression chamber depressurization, as part of the Primary Containment Integrated Leakage Rate Test (ILRT), to establish the differential pressure for the drywell to suppression chamber bypass portion of the ILRT. The 'A' SGTS, which had been providing the venting path, had been shutdown and the dampers between the SGTS and the drywell and suppression chamber had been closed per the ILRT procedure. Since additional depressurization to reach test pressure was needed, the ILRT Test Director directed the re-opening of the dampers, which resulted in a non-safety design function auto-start of the 'B' SGTS on high inlet header pressure. The event was caused by a test procedure inadequacy and personnel error by the Test Director. The cause of the SGTS auto-start was verified and it was shutdown. The Test Director and operating shift personnel reviewed the incident and conservatively determined that an ENS notification be made to the NRC. The ILRT procedure will be revised to provide proper direction for establishing the drywell to suppression chamber bypass leakage test pressure and for securing the SGTS in accordance with the operating procedure.

LICENSEE EVENT REPORT (LER)
TEXT CONTINUATION

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST: 500 HRS. FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE RECORDS AND REPORTS MANAGEMENT BRANCH (P-530), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20555, AND TO THE PAPERWORK REDUCTION PROJECT (3150-0104), OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503.

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| | | YEAR | SEQUENTIAL NUMBER | REVISION NUMBER | | | |
| | | 8 9 | - 0 1 5 | - 0 0 | 0 2 | OF | 0 3 |

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

DESCRIPTION OF EVENT

On November 5, 1989 at 1418 hours, with Unit 2 in Condition 4 at 0% power, an automatic start of the 'B' SGTS occurred during depressurization of the suppression chamber (EIIIS Code: NH) as part of surveillance procedure SE-200-003, Primary Containment Integrated Leakage Rate Test (ILRT). The ILRT Test Director had reached a step which establishes the differential pressure for the drywell to suppression chamber bypass test portion of the surveillance procedure. The 'A' SGTS was in operation to provide the vent path from the suppression chamber. The Test Director instructed the operator to shutdown the 'A' SGTS when pressure in the suppression chamber reached 0.1 psig, as per the ILRT procedure. The operator (utility, licensed) shutdown the 'A' SGTS and then closed the burp and purge dampers between the drywell and suppression chamber and the SGTS trains in accordance with the operating procedure. The Test Director, however, instructed the operator to re-open the burp and purge dampers to provide a flow path from the suppression chamber to SGTS, since further depressurization of the suppression chamber was necessary to establish the required drywell to suppression chamber bypass leakage test differential pressure. Following the re-opening of the burp and purge dampers, the 'B' SGTS auto-started on high inlet header pressure.

CAUSE OF EVENT

This event was caused by a procedural inadequacy and personnel error. The ILRT procedure was inadequate in describing the method of obtaining the drywell to suppression chamber bypass leakage test pressure condition and the securing of the SGTS. The procedure should not have secured SGTS until 0.0 psig was reached in the suppression chamber and should have directed the securing of the SGTS in accordance with the operating procedure for the SGTS. In directing the re-opening of the burp and purge dampers, the Test Director failed to recall that the SGTS will auto-start on an inlet header pressure of approximately 0.05 psig.

REPORTABILITY/ANALYSIS

Per the Final Safety Analysis Report (FSAR) section 6.5.1.1, the use of the SGTS for filtering and exhausting air from the primary containment for purging and ventilating is a non-safety related objective for design of the SGTS. The purpose of the auto-start of SGTS on high inlet header pressure however, is to preclude the possibility of unfiltered air bypassing the filtration train via the outdoor makeup duct. As such, it was conservatively determined that the auto-start on high inlet pressure was an Engineered Safety Feature actuation reportable per 10CFR50.72(b)(2)(ii) and 10CFR50.73(a)(2)(iv). The SGTS properly auto-started and there were no safety consequences or compromise to public health or safety as a result of this auto-start.

LICENSEE EVENT REPORT (LER)
TEXT CONTINUATION

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

CORRECTIVE ACTIONS

The cause of the auto-start was verified and the 'B' SGTS was shutdown. The cause of the incident was discussed between the ILRT Test Director and the operating shift personnel and it was conservatively decided that an ENS notification would be made to the Commission until further evaluation could be performed. Further evaluation concluded that the conservative decision to consider the SGTS auto-start as an ESF actuation was correct.

The ILRT procedures for both units will be revised to provide proper direction for establishing the drywell to suppression chamber bypass leakage test pressure and for securing the SGTS in accordance with the operating procedure.

ADDITIONAL INFORMATION

Failed Component Identification: Not applicable.

Similar Events Previously Report: None identified.