

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: 9402180105      DOC.DATE: 94/01/31      NOTARIZED: NO      DOCKET #  
 FACIL: 50-388 Susquehanna Steam Electric Station, Unit 2, Pennsylv      05000388  
 AUTH.NAME      AUTHOR AFFILIATION  
 WERRY, R.R.      Pennsylvania Power & Light Co.  
 STANLEY, H.G.      Pennsylvania Power & Light Co.  
 RECIPIENT NAME      RECIPIENT AFFILIATION

SUBJECT: LER 94-001-00: on 940103, determined that condition prohibited by plants TS LCO action 3.0.3. occurred. Caused by 18 month surveillance testing during refueling outage. Surveillance testing successfully completed. W/940130 ltr.

DISTRIBUTION CODE: IE22T      COPIES RECEIVED: LTR 1 ENCL 1 SIZE: 4  
 TITLE: 50.73/50.9 Licensee Event Report (LER), Incident Rpt, etc.

NOTES:

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INTERNAL:	ACRS	2 2	AEOD/DOA	1 1
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	REG FILE 02	1 1	RES/DSIR/EIB	1 1
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EXTERNAL:	EG&G BRYCE, J.H	2 2	L ST LOBBY WARD	1 1
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	NSIC POORE, W.	1 1	NUDOCS FULL TXT	1 1

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Pennsylvania Power & Light Company

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January 31, 1994

U.S. Nuclear Regulatory Commission  
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SUSQUEHANNA STEAM ELECTRIC STATION  
LICENSEE EVENT REPORT 94-001-00  
FILE R41-2  
PLAS - 588

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

Attached is Licensee Event Report 94-001-00. This report is being made pursuant to 10CFR50.73(a)(2)(i)(B), in that Susquehanna Unit 2 was in a condition prohibited by the plant's Technical Specifications as a result of entry into LCO ACTION 3.0.3 during performance of 18 month LOCA/LOOP surveillance testing on Unit 1.

H.G. Stanley  
VP - Nuclear Operations

RRW/mjm

cc: Mr. T. T. Martin  
Regional Administrator, Region I  
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9402180105 940130  
PDR AD0CK 05000388  
S PDR

LICENSEE EVENT REPORT (LER)

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.

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
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TITLE (4)  
Condition Prohibited By Plant's Technical Specifications (LCO ACTION 3.0.3)

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 1	0 3	9 4	9 4	0 0 1	0 0 0	0 1	3 1	9 4	SSES - Unit 1		0 5 0 0 0 3 8 7																																				
<table border="1"> <tr> <td>OPERATING MODE (9)</td> <td>1</td> <td>20.402(b)</td> <td>20.405(c)</td> <td>50.73(a)(2)(iv)</td> <td>73.71(b)</td> </tr> <tr> <td>POWER LEVEL (10)</td> <td>0 9 8</td> <td>20.405(a)(1)(i)</td> <td>50.36(c)(1)</td> <td>50.73(a)(2)(v)</td> <td>73.71(c)</td> </tr> <tr> <td></td> <td></td> <td>20.405(a)(1)(ii)</td> <td>50.36(c)(2)</td> <td>50.73(a)(2)(vii)</td> <td>OTHER (Specify in Abstract below and in Text, NRC Form 366A)</td> </tr> <tr> <td></td> <td></td> <td>20.405(a)(1)(iii)</td> <td>X 50.73(a)(2)(i)</td> <td>50.73(a)(2)(viii)(A)</td> <td></td> </tr> <tr> <td></td> <td></td> <td>20.405(a)(1)(iv)</td> <td>50.73(a)(2)(ii)</td> <td>50.73(a)(2)(viii)(B)</td> <td></td> </tr> <tr> <td></td> <td></td> <td>20.405(a)(1)(v)</td> <td>50.73(a)(2)(iii)</td> <td>50.73(a)(2)(ix)</td> <td></td> </tr> </table>												OPERATING MODE (9)	1	20.402(b)	20.405(c)	50.73(a)(2)(iv)	73.71(b)	POWER LEVEL (10)	0 9 8	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 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)(ix)	
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		20.405(a)(1)(v)	50.73(a)(2)(iii)	50.73(a)(2)(ix)																																											

LICENSEE CONTACT FOR THIS LER (12)

NAME	TELEPHONE NUMBER
Richard R. Wehry, Power Production Engineer - Compliance	7 1 7 5 4 2 1 - 3 1 6 1 4

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

CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NRPDS	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NRPDS

SUPPLEMENTAL REPORT EXPECTED (14)

YES (If yes, complete EXPECTED SUBMISSION DATE)	NO	EXPECTED SUBMISSION DATE (15)	MONTH	DAY	YEAR
<input checked="" type="checkbox"/>	<input type="checkbox"/>				

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

At 0115 hours on January 3, 1994, with Unit 2 in Condition 1 at 98% power, 18 month surveillance test SE-124-207, "18 Month Emergency Diesel Generators (EDG) B and D Auto Start and ESS Buses 1B and 1D Energization on Loss of Offsite Power With a LOCA - Plant Shutdown" was being performed on Unit 1, which was in Condition 5 at 0% power. As part of this test, the undervoltage start signals from the 1B and 1D ESS Buses to the B and D EDGs are disabled. With the undervoltage circuits (degraded voltage protection) disabled, ESS Buses 1B and 1D (2 load groups) are considered not energized per Technical Specification 3.8.3. Since Unit 2 Technical Specification 3.8.3.1 requires that the Unit 1 load groups remain energized for common A.C. distribution system loads and only contains provisions for one (1) load group being not energized, entry into LCO ACTION 3.0.3 on Unit 2 was required. The surveillance test was successfully completed on Unit 1 and LCO ACTION 3.0.3 was exited on Unit 2 at 0217 hours on January 3, 1994. PP&L is performing reviews to determine if entry into LCO ACTION 3.0.3 was necessary and, if so, whether procedural testing methods can be revised and/or the Technical Specifications can be amended to eliminate the need for entry into LCO ACTION 3.0.3 for conducting this testing.

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.

FACILITY NAME (1)  Unit 2 Susquehanna Steam Electric Station	DOCKET NUMBER (2)  0   5   0   0   0   3   8   8	LER NUMBER (6)			PAGE (3)		
		YEAR 9   4	SEQUENTIAL NUMBER -   0   0   1	REVISION NUMBER -   0   0			

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

DESCRIPTION OF EVENT

At 0115 hours on January 3, 1994, with Unit 2 in Condition 1 at 98% power, 18 month surveillance test SE-124-207, "18 Month Emergency Diesel Generators (EDG; EIIS Code: EK) B and D Auto Start and Engineered Safety System (ESS) Buses (EIIS Code: EB) 1B and 1D Energization on Loss of Offsite Power With a LOCA - Plant Shutdown" was being performed on Unit 1, which was in Condition 5 at 0% power. As part of this test, the undervoltage start signals from the 1B and 1D ESS Buses to the B and D EDGs are disabled. With the undervoltage circuits (degraded voltage protection) disabled, ESS Buses 1B and 1D (2 load groups) are considered not energized per Technical Specification 3.8.3. Since Unit 2 Technical Specification 3.8.3.1 requires that the Unit 1 ESS load groups remain energized for common A.C. distribution system loads and only contains provisions for one (1) load group being not energized, entry into LCO ACTION 3.0.3 on Unit 2 was required.

CAUSE OF EVENT

The need to enter LCO ACTION 3.0.3 on Unit 2 was a result of 18 month surveillance testing being performed on Unit 1 during its seventh refueling outage. The testing resulted in two (2) ESS load groups on Unit 1 being considered not energized per Technical Specification 3.8.3 due to the degraded voltage protection circuits for those load groups being disabled. Since Unit 2 Technical Specification 3.8.3.1 requires that the Unit 1 ESS load groups remain energized for common A.C. distribution system loads and only contains provisions for one (1) load group being not energized, entry into LCO ACTION 3.0.3 on Unit 2 was required.

REPORTABILITY/ANALYSIS

This event was determined to be reportable per 10CFR50.73(a)(2)(i)(B) as a condition prohibited by the plant's Technical Specifications in that Technical Specification LCO ACTION 3.0.3 was entered on Unit 2 during performance of an 18 month surveillance test on Unit 1. The test resulted in two (2) ESS load groups on Unit 1 being considered not energized per Technical Specification 3.8.3 due to the degraded voltage protection circuits for those load groups being disabled. Since Unit 2 Technical Specification 3.8.3.1 requires that the Unit 1 ESS load groups remain energized for common A.C. Distribution system loads and only contains provisions for one (1) load group being not energized, entry into LCO ACTION 3.0.3 on Unit 2 was required.

LICENSEE EVENT REPORT (LER)  
TEXT CONTINUATION

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.

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		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
		9   4	-   0   0   1	-   0   0	0   3	OF 0   3	

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

Although the Technical Specifications require considering the load groups as not energized when the undervoltage start signals to the EDGs are disabled during the surveillance testing, the load groups remained energized during the time that LCO ACTION 3.0.3 was in effect and the design safety function of the undervoltage start circuitry was not called upon. As such, there was no significant degradation in the Station's ability to protect the health and safety of the public and/or plant personnel. Technical Specification LCO ACTION 3.0.3 was entered at 0115 hours and exited at 0217 hours on January 3, 1994.

In accordance with guidance provided in NUREG 1022, Supplement 1, item 14.1, the required submission date for this report was determined to be February 2, 1994.

CORRECTIVE ACTION

The surveillance testing was successfully completed on Unit 1 and LCO ACTION 3.0.3 was exited on Unit 2 at 0217 hours on January 3, 1994.

PP&L is performing reviews to determine if entry into LCO ACTION 3.0.3 was necessary and, if so, whether procedural testing methods can be revised and/or the Technical Specifications can be amended to eliminate the need for entry into LCO ACTION 3.0.3 for conducting this testing.

ADDITIONAL INFORMATION

Failed Component Identification: None

Previous Similar Events: Although there were several previous Licensee Event Reports against Docket Nos. 50-387 and 50-388 documenting entries into Technical Specification LCO ACTION 3.0.3, there were no previous LERs involving entry into LCO ACTION 3.0.3 on Unit 2 due to 18 month surveillance testing on Unit 1.