

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: 8707230644 DOC. DATE: 87/07/14 NOTARIZED: NO DOCKET #
 FACIL: 50-387 Susquehanna Steam Electric Station, Unit 1, Pennsylv 05000387
 AUTH. NAME WEHRY, R. R. AUTHOR AFFILIATION Pennsylvania Power & Light Co.
 BYRAM, R. G. Pennsylvania Power & Light Co.
 RECIP. NAME RECIPIENT AFFILIATION

SUBJECT: LER 87-021-00: on 870622, Limiting Condition for Operation
 3.0.3 entered & cleared to perform surveillance on
 engineered safeguard sys buses. Caused by inadequate action
 statement. Statement clarified by NRC amend. W/870714 ltr.

DISTRIBUTION CODE: IE22D COPIES RECEIVED: LTR 1 ENCL 1 SIZE: 4
 TITLE: 50.73 Licensee Event Report (LER), Incident Rpt, etc.

NOTES: 1cy NMSS/FCAF/PM. LPDR 2cys Transcripts. 05000387

	RECIPIENT ID CODE/NAME	COPIES LTTR ENCL	RECIPIENT ID CODE/NAME	COPIES LTTR ENCL
	PD1-2 LA THADANI, M	1 1 1 1	PD1-2 PD	1 1
INTERNAL:	ACRS MICHELSON AEOD/DOA AEOD/DSP/ROAB DEDRO NRR/DEST/ADS NRR/DEST/ELB NRR/DEST/MEB NRR/DEST/PSB NRR/DEST/SGB NRR/DLPQ/QAB NRR/DREP/RAB NRR/PMAS/ILRB <u>REG FILE</u> 02 RES TELFORD, J RGN1 FILE 01	1 1 1 1 2 2 1 1 1 0 1	ACRS MOELLER AEOD/DSP/NAS AEOD/DSP/TPAB NRR/DEST/ADE NRR/DEST/CEB NRR/DEST/ICSB NRR/DEST/MTB NRR/DEST/RSB NRR/DLPQ/HFB NRR/DOEA/EAB NRR/DREP/RPB NRR/PMAS/PTSB RES DEPY GI RES/DE/EIB	2 2 1 1 1 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
EXTERNAL:	EG&G GROH, M LPDR NSIC HARRIS, J	5 5 2 2 1 1	H ST LOBBY WARD NRC PDR NSIC MAYS, G	1 1 1 1 1 1
NOTES:		3 3		

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) Susquehanna Steam Electric Station - Unit One	DOCKET NUMBER (2) 0 5 0 0 0	PAGE (3) 1 OF 0 3
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TITLE (4)
Entry into LCO 3.0.3 to Perform 4KV ESS Bus Degraded Voltage Relay Surveillances

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 6	2 2	8 7	8 7	0 2 1	0 0	0 7	1 4	8 7	SSES - Unit 2	0 5 0 0 0 3 8 8
										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) 1 0 0	<input type="checkbox"/> 20.402(b)	<input type="checkbox"/> 20.405(c)	<input type="checkbox"/> 50.73(a)(2)(iv)	<input type="checkbox"/> 73.71(b)						
	<input type="checkbox"/> 20.405(a)(1)(ii)	<input type="checkbox"/> 50.36(c)(1)	<input type="checkbox"/> 50.73(a)(2)(v)	<input type="checkbox"/> 73.71(c)						
	<input type="checkbox"/> 20.405(a)(1)(iii)	<input type="checkbox"/> 50.36(c)(2)	<input type="checkbox"/> 50.73(a)(2)(vi)	OTHER (Specify in Abstract below and in Text, NRC Form 366A)						
	<input type="checkbox"/> 20.405(a)(1)(iii)	<input checked="" type="checkbox"/> 50.73(a)(2)(i)	<input type="checkbox"/> 50.73(a)(2)(viii)(A)							
	<input type="checkbox"/> 20.405(a)(1)(iv)	<input type="checkbox"/> 50.73(a)(2)(ii)	<input type="checkbox"/> 50.73(a)(2)(viii)(B)							
	<input type="checkbox"/> 20.405(a)(1)(v)	<input type="checkbox"/> 50.73(a)(2)(iii)	<input type="checkbox"/> 50.73(a)(2)(x)							

LICENSEE CONTACT FOR THIS LER (12)		TELEPHONE NUMBER	
NAME Richard R. Wehry - Compliance Engineer		AREA CODE 7 1 7	 5 4 2 - 3 9 1 3

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)		EXPECTED SUBMISSION DATE (16)	MONTH	DAY	YEAR
<input type="checkbox"/> YES (If yes, complete EXPECTED SUBMISSION DATE)	<input checked="" type="checkbox"/> NO				

ABSTRACT (Limit to 1400 spaces, i.e., approximately fifteen single-space typewritten lines) (18)

On June 22, 1987 with Units 1 and 2 operating at 100% power, Limiting Condition for Operation (LCO) 3.0.3 was entered and cleared four (4) times on each Unit to perform surveillances on the 4.16 KV Engineered Safeguard System (ESS) busses (EISS Code: EB).

To perform the monthly degraded voltage channel functional tests on the ESS buses, all degraded voltage protection on the bus is taken out of service although the bus remains energized. Technical Specifications require 2 channels of degraded voltage protection per bus, and both channels must be operable.

The loss of both channels of degraded voltage protection is not addressed by the action statement, therefore entering Tech Spec. 3.0.3 is required.

An approved Amendment to each Unit's License has been received from the NRC since the occurrence which clarifies the action statement of table 3.3.3-1 section 5 to address the situation where both channels of degraded voltage protection are inoperable at the same time. This will prevent the necessity of entering Tech Spec 3.0.3 to perform this testing.

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FACILITY NAME (1) Susquehanna Steam Electric Station Unit 1	DOCKET NUMBER (2) 0 5 0 0 0 3 8 7 8 7	LER NUMBER (6)			PAGE (3)	
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER		
		87	- 0 2 1	- 0 0	0 2	OF 0 3

TEXT (If more space is required, use additional NRC Form 368A's) (17)

Description of Event

Limiting Condition for Operation (LCO) 3.0.3 was entered and cleared four (4) times on each unit to perform surveillances on the 4.16 KV Engineered Safeguard System (ESS) Buses (EIIS Code: EB). The event occurred on June 22, 1987 while Units 1 and 2 were operating at 100% power.

To perform the monthly degraded voltage channel functional tests on an ESS bus, all degraded voltage protection on the bus is taken out of service although the bus remains energized. Technical Specifications require 2 channels of degraded voltage protection per bus, and both channels must be operable. Action Statement 36 of Tech Spec Table 3.3.3-1 section 5 states: "With the number of OPERABLE channels one less than the total number of channels, place the inoperable channel in the tripped condition within 1 hour; operation may then continue until performance of the next required CHANNEL FUNCTIONAL TEST".

Cause Of The Event:

The loss of both channels of degraded voltage protection is not addressed by the action statement, therefore entering Tech Spec. 3.0.3 is required.

Analysis Of The Event

The amount of time spent in LCO 3.0.3 for each bus was minimal as shown below:

<u>BUS</u>	<u>TIME LCO DECLARED</u>	<u>TIME LCO CLEARED</u>	<u>MINUTES IN LCO</u>
1A201	0800	0820	20
1A202	0830	0847	17
1A203	0900	0913	13
1A204	0925	0938	13
2A201	1035	1055	20
2A202	1100	1123	23
2A203	1245	1309	24
2A204	1310	1333	23

Disabling the degraded voltage protection for an ESS bus while the bus remains energized means that if the bus experienced a degraded voltage condition, there would be no automatic transfer to the alternate source of the associated Diesel Generator. The alternate source and the Diesel Generator operability are not in question for they would operate properly if any other bus (with operable degraded voltage protection) was to see a degraded voltage condition. The resulting situation is that a bus which is energized during degraded voltage protection testing would become inoperable if an actual degraded voltage condition occurred.

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

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

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

Due to redundancy of ESS supplied systems and the restrictions of Technical Specifications allowing testing of only one bus at a time, the safety implications of losing the bus under test are bounded by the current safety analysis.

This event has been determined reportable per 10CFR50.73 (a) (2) (i) (B) in that entry into LCO 3.0.3 means the plant is operating in a "Condition Prohibited by Technical Specification" as identified in NUREG-1022 Supplement No. 1.

Corrective Action

An approved Amendemnt to each Unit's license has been received from the NRC which clarifies the action statements of table 3.3.3-1 section 5 to address the situation where both channels of degraded voltage protection are inoperable at the same time. This will prevent the necessity of entering Tech Spec 3.0.3 to perform this testing.

Additional Information:

There have been 13 other LERs addressing the entry into LCO 3.0.3 to perform the Degraded Voltage Relay Surveillances. Refer to LERs - 86-019, 86-025, 86-027, 86-030, 86-032, 86-036, 86-037, 86-042, 87-002, 87-006, 87-010 and 87-012 and 87-018. No future LER's due to this testing are anticipated.





Pennsylvania Power & Light Company

P.O. Box 451 • Berwick, PA 18603-0451 • 717/542-2151


July 14, 1987

U.S. Nuclear Regulatory Commission
Document Control Desk
Washington, DC 20555

SUSQUEHANNA STEAM ELECTRIC STATION
LICENSEE EVENT REPORT 87-021-00
FILE R41-2
PLAS - 269

Docket No. 50-387
License No. NPF-14

Attached is Licensee Event Report 87-021-00. This event was determined reportable per 10CFR50.73 (a) (2) (i) (B), in that the plant entered LCO Action Statement 3.0.3 four times on each unit to perform surveillance testing in the 4.16 KV Engineered Safeguard System (ESS) buses. Since the occurrence, an approved Amendment to each unit's License has been received from the NRC which clarifies the action statement of table 3.3.3-1 section 5. This will prevent any future entering of Tech. Spec. 3.0.3 to perform this surveillance testing.



R. G. Byram

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CLW/cmw

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