

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: 8706160588 DOC. DATE: 87/06/10 NOTARIZED: NO DOCKET #  
 FACIL: 50-387 Susquehanna Steam Electric Station, Unit 1, Pennsylv 05000387  
 AUTH. NAME AUTHOR AFFILIATION  
 WALLEN, C. L. Pennsylvania Power & Light Co.  
 BYRAM, R. G. Pennsylvania Power & Light Co.  
 RECIP. NAME RECIPIENT AFFILIATION

SUBJECT: LER 87-018-00: on 870520, Limiting Condition for Operation  
 3.0.3 entered & cleared four times during performance of  
 monthly degraded voltage channel of 4 kV engineered  
 safeguards busses. Tech Spec change requested. W/870610 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	1 1	PD1-2 PD	1 1
	THADANI, M	1 1		
INTERNAL:	ACRS MICHELSON	1 1	ACRS MOELLER	2 2
	AEOD/DOA	1 1	AEOD/DSP/ROAB	2 2
	AEOD/DSP/TFAB	1 1	DEDRO	1 1
	NRR/DEST/ADE	1 0	NRR/DEST/ADS	1 0
	NRR/DEST/CEB	1 1	NRR/DEST/ELB	1 1
	NRR/DEST/ICSB	1 1	NRR/DEST/MEB	1 1
	NRR/DEST/MTB	1 1	NRR/DEST/PSB	1 1
	NRR/DEST/RSB	1 1	NRR/DEST/SGB	1 1
	NRR/DLPQ/HFB	1 1	NRR/DLPQ/QAB	1 1
	NRR/DOEA/EAB	1 1	NRR/DREP/RAB	1 1
	NRR/DREP/RPB	2 2	NRR/PMAS/ILRB	1 1
	NRR/PMAS/PTSB	1 1	<u>REG FILE</u> 02	1 1
	RES DEPY GI	1 1	RGNI FILE 01	1 1
EXTERNAL:	EG&G GROH, M	5 5	H ST LOBBY WARD	1 1
	LPDR	2 2	NRC PDR	1 1
	NSIC HARRIS, J	1 1	NSIC MAYS, G	1 1
NOTES:		3 3		

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) Susquehanna Steam Electric Station - Unit 1	DOCKET NUMBER (2) 0 5 0 0 0 3 8 7	PAGE (3) 1 OF 0 3
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TITLE (4)  
Entry into L.C.O 3.0.3 for 4KV ESS Bus Degraded Voltage Relay Surv.

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 5	2 0	8 7	8 7	0 1 8	0 0	0 6	1 0	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	20.402(b)	20.406(c)	50.73(a)(2)(iv)	73.71(b)						
	20.406(a)(1)(i)	50.36(c)(1)	50.73(a)(2)(v)	73.71(c)						
	20.406(a)(1)(ii)	50.36(c)(2)	50.73(a)(2)(vii)	OTHER (Specify in Abstract below and in Text, NRC Form 366A)						
	20.406(a)(1)(iii)	X 50.73(a)(2)(i)	50.73(a)(2)(viii)(A)							
	20.406(a)(1)(iv)	50.73(a)(2)(ii)	50.73(a)(2)(viii)(B)							
20.406(a)(1)(v)	50.73(a)(2)(iii)	50.73(a)(2)(x)								

LICENSEE CONTACT FOR THIS LER (12)	
NAME Craig L. Wallen - Compliance Evaluator	TELEPHONE NUMBER 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) <input type="checkbox"/> YES (If yes, complete EXPECTED SUBMISSION DATE) <input checked="" type="checkbox"/> NO	EXPECTED SUBMISSION DATE (15)	MONTH	DAY	YEAR
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ABSTRACT (Limit to 1400 spaces, i.e., approximately fifteen single-space typewritten lines) (16)

On May 20, 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 (EIIS 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.

A Tech Spec change request has been submitted to the NRC to clarify 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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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 1 8	- 0 0	0 2	OF	0 3

TEXT (If more space is required, use additional NRC Form 366A'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 May 20, 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	0825	0837	12
1A202	0838	0848	10
1A203	0850	0903	13
1A204	0904	0914	10
2A201	1000	1017	17
2A202	1018	1026	8
2A203	1027	1037	10
2A204	1038	1047	9

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) 05000387	LER NUMBER (6)			PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
		87	018	00	03	OF	03

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

A Tech Spec change request has been submitted to the NRC to clarify 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 12 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.



Pennsylvania Power & Light Company

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

June 10, 1987


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

SUSQUEHANNA STEAM ELECTRIC STATION  
LICENSEE EVENT REPORT 87-018-00  
FILE R41-2  
PLAS - 259

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

Attached is Licensee Event Report 87-018-00. 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.

  
R. G. Byram  
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CLW/cmw

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