

## LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) Susquehanna Steam Electric Station - Unit 1										DOCKET NUMBER (2) 0 5 0 0 0 3 8 7 1										PAGE (3) OF 0 3																													
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 SSES - Unit 2										DOCKET NUMBER(S) 0 5 0 0 0 3 8 8												
0 2			2 0			8 7			8 7			0 0 6			0 0			0 3			2 0			8 7													0 5 0 0 0												
OPERATING MODE (9) 1										THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR 5. (Check one or more of the following) (11)																																							
POWER LEVEL (10) 0 9 0										20.408(a) 20.408(a)(1)(i) 20.408(a)(1)(ii) 20.408(a)(1)(iii) 20.408(a)(1)(iv) 20.408(a)(1)(v)										20.408(a) 20.36(a)(1) 20.36(a)(2) 20.73(a)(2)(i) 20.73(a)(2)(ii) 20.73(a)(2)(iii) 20.73(a)(2)(iv)										20.73(a)(2)(iv) 20.73(a)(2)(v) 20.73(a)(2)(vi) 20.73(a)(2)(vii)(A) 20.73(a)(2)(vii)(B) 20.73(a)(2)(viii) 20.73(a)(2)(ix)										73.71(b) 73.71(a) OTHER (Specify in Abstract below and in Text, NRC Form 366A)									
LICENSER CONTACT FOR THIS LER (12) NAME Craig L. Wallen - Compliance Evaluator										TELEPHONE NUMBER AREA CODE 7 1 7 5 4 2 - 3 9 1 9																																							
COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)																																																	
CAUSE			SYSTEM			COMPONENT			MANUFACTURER			REPORTABLE TO NPROS			CAUSE			SYSTEM			COMPONENT			MANUFACTURER			REPORTABLE TO NPROS																						
SUPPLEMENTAL REPORT EXPECTED (14)																				EXPECTED SUBMISSION DATE (15)										MONTH			DAY			YEAR													
YES (If yes, complete EXPECTED SUBMISSION DATE)																				NO																													
ABSTRACT (Limit to 1400 words, i.e., approximately fifteen single-space typewritten lines) (16)																																																	
<p>On February 20, 1987 with Unit 1 operating at 90% and Unit 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) buses (EIIS Code: EB).</p> <p>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.</p> <p>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.</p> <p>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.</p> <p style="text-align: right;">111 1E22</p>																																																	
8703250140 870320 PDR ADOCK 05000387 S PDR																																																	

## LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

FACILITY NAME (1) Susquehanna Steam Electric Station Unit 2	DOCKET NUMBER (2) 0 5 0 0 0 3 8 7 8 7	LER NUMBER (8)			PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
		87	006	00	02	OF	03

TEXT (If more space is required, use additional NRC Form 388A'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 February 20, 1987 while Unit 1 was operating at 90% power and Unit 2 was 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:

BUS	TIME LCO DECLARED	TIME LCO CLEARED	MINUTES IN LCO
1A201	0615	0634	19
1A202	0645	0655	10
1A203	0710	0715	5
1A204	0725	0739	14
2A201	0915	0292	14
2A202	0930	0940	10
2A203	0941	0952	11
2A204	0953	10:03	10

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 0 6	0 0	0 3	OF	0 3

TEXT (If more space is required, use additional NRC Form 368A'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 vounded 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 Specifications" 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 9 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 and 87-002.





Pennsylvania Power & Light Company

Two North Ninth Street • Allentown, PA 18101 • 215 / 770-5151

March 20, 1987

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

SUSQUEHANNA STEAM ELECTRIC STATION  
LICENSEE EVENT REPORT 87-006-00  
FILE R41-2  
PLAS -240

---

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

Attached is Licensee Event Report 87-006-00. 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  
Superintendent of Plant - Susquehanna

CLW/cmw

cc: Dr. Thomas E. Murley  
Regional Administrator, Region I  
U.S. Nuclear Regulatory Commission  
631 Park Avenue  
King of Prussia, PA 19406

Mr. Loren Plisco  
Resident Inspector  
U.S. Nuclear Regulatory Commission  
P.O. Box 52  
Shickshinny, PA 18655

111  
IE22