

3150-0011

(PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

0	1	P	A	S	E	S	1	2	0	0	-	0	0	0	0	-	0	0	3	4	1	1	1	1	4			5
7	8	9					14	15										25	26						30	37	CAT	58
LICENSEE CODE								LICENSE NUMBER												LICENSE TYPE								

CON'T

0	1	REPORT SOURCE	L	6	0	5	0	0	0	3	8	7	7	1	1	0	2	8	3	8	1	2	0	2	8	3	9
7	8		60	61	DOCKET NUMBER										68	EVENT DATE					74	REPORT DATE					80

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

0 2 | Following a scram from 98% power due to a Main Steam Line Hi Radiation Alarm on
0 3 | 11-02-83, Emergency Service Water Pump B failed to start manually, resulting in
0 4 | the unit entering an LCO as specified in T.S. 3.7.1.2. Operations immediately re-
0 5 | cognized the failure of ESW pump B to start and manually started the alternate
0 6 | ESW pump ("D"). Later a piece of insulation was found in the "B" pump breaker
0 7 | contact preventing the breaker from closing. Since the alternate ESW pump was op-
0 8 | erable, ESW loop A remained operable, the public health and safety was not affected

SYSTEM CODE		CAUSE CODE		CAUSE SUBCODE		COMPONENT CODE				COMP. SUBCODE		VALVE SUBCODE					
0	9	W	G	E	B	R	E	L	A	Y	X	E	Z				
7	8	9	10	11	12	13	14	15	16	17	18	19	20				
LER/RO REPORT NUMBER		EVENT YEAR		SEQUENTIAL REPORT NO.		OCCURRENCE CODE		REPORT TYPE		REVISION NO.							
17		8	3	14	9	/	0	3	L		0						
21	22	23	24	25	26	27	28	29	30	31	32						
ACTION TAKEN		FUTURE ACTION		EFFECT ON PLANT		SHUTDOWN METHOD		HOURS		ATTACHMENT SUBMITTED		NPRD-4 FORM SUB.		PRIME COMP. SUPPLIER		COMPONENT MANUFACTURER	
B	Z	Z	Z	Z	0	0	0	0	Y	Y	A	W	1	2	1		
33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48		

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

1 0 The event was caused by failure of the breaker for ESW pump B to close. Investi-

1 1 gation revealed wire insulation lodged in the breaker's latch relay contact. The

1 2 insulation was removed, the breaker was satisfactorily tested and returned to ser-

1 3 vice. A step has been added to MT-GE-005 to inspect for debris on active sub-

1 4 components that may impede breaker operation.

FACILITY STATUS		% POWER			OTHER STATUS		METHOD OF DISCOVERY		DISCOVERY DESCRIPTION				
1	5	2	28	0	0	0	29	NA	30	A	31	Operator Observation	32

ACTIVITY CONTENT RELEASED OF RELEASE AMOUNT OF ACTIVITY (35) LOCATION OF RELEASE (36)

1 6 Z (33) Z (34) NA NA

PERSONNEL EXPOSURES									
NUMBER		TYPE		DESCRIPTION					
1	7	0	0	0	37	Z	38	NA	39

PERSONNEL INJURIES		DESCRIPTION		(41)
NUMBER				
1	8	0	0	0
		(40)	NA	

8 9		11 12		13 14		15 16		17 18		19 20	
LOSS OF OR DAMAGE TO FACILITY				TYPE				DESCRIPTION			
1	9	Z	42	NA							

IEV

8 9 10 80

ISSUED		PUBLICATION DESCRIPTION	(45)
2	0	N	(44) NA S PDR
		8312200457 831202 PDR ADOCK 05000387 S PDR	
		NRC USE ONLY	

NAME OF PREPARER B.L. Wilks

PHONE (717) 542-2181

ATTACHMENT

LER # 83-149/03L-0

Pennsylvania Power & Light Company
Susquehanna Steam Electric Station
Docket Number: 50-387

Following a scram from 98% power due to a Main Steam Line Hi Radiation Alarm at 1105 hours on November 2, 1983, Emergency Service Water (ESW) Pump B failed to start manually, resulting in the unit entering Limiting Conditions for Operation (LCO) as specified in Technical Specification section 3.7.1.2, and reportable per T.S. 6.9.1.9.b. (The manual starting of an ESW pump is standard operating practice following a scram on Main Steam Line Hi Radiation to supply cooling water to the Reactor Core Isolation Cooling system and the High Pressure Safety Injection system.) Operations then immediately started the alternate ESW pump ("D"). A Work Authorization (WA) was written to investigate the failure. The investigation revealed that the event was caused by failure of ESW pump B breaker to close. A 1/4" long piece of wire insulation was lodged in the breaker latch relay contact, mechanically preventing the breaker from closing with the close signal present.

The wire insulation was removed. The breaker was cycled several times in the test position and at 1845 hours, ESW pump B was returned to service.

As a precaution, a clarifying statement has been added to Maintenance Test Procedure MT-GE-005 "Switchgear Maintenance - 5 and 15KV Breaker" to, in the future, inspect for debris on active sub-components that would impede breaker operation before it is returned to service. A review indicates no similar occurrences for which the ESW pumps failed to start.

Since the alternate ESW pump ("D") in loop B was operable, and ESW-loop A remained in service, the public health and safety was not affected.



Pennsylvania Power & Light Company

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

December 2, 1983

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

SUSQUEHANNA STEAM ELECTRIC STATION
LICENSEE EVENT REPORT 83-149/03L-0
ER 100450 FILE 841-23
PLA-1978

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

Dear Dr. Murley:

Attached is Licensee Event Report No. 83-149/03L-0. This event was determined to be reportable per Technical Specification 6.9.1.9.b, in that following a scram from 98% power due to a Main Steam Line Hi Radiation Alarm at 1038 hours on November 2, 1983, Emergency Service Water Pump B failed to start manually, resulting in non-compliance with Technical Specification 3.7.1.2. Investigations were made and ESW pump B was returned to service seven hours later. During this event, alternate ESW pump "D" was operable, and ESW loop A remained available.

H.W. Keiser for
H.W. Keiser
Superintendent of Plant-Susquehanna

BLW/pjg

cc: G.G. Rhoads
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Washington, DC 20555

Attachment

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