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REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: 9402070328 DOC. DATE: 94/01/31 NOTARIZED: NO DOCKET #
 FACIL: 50-387 Susquehanna Steam Electric Station, Unit 1, Pennsylv 05000387
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 STANLEY, H.G. Pennsylvania Power & Light Co.
 RECIPIENT NAME RECIPIENT AFFILIATION

SUBJECT: LER 94-001-00: on 940102, unplanned start of C EDG occurred during performance of surveillance testing. Caused by inadequate training. Shutdown C EDG & returned to normal standby status. W/940131 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:

	RECIPIENT		COPIES			RECIPIENT		COPIES	
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	CLARK, R		1	1					
INTERNAL:	ACRS		2	2		AEOD/DOA		1	1
	AEOD/DSP/TPAB		1	1		AEOD/ROAB/DSP		2	2
	NRR/DE/EELB		1	1		NRR/DE/EMEB		1	1
	NRR/DORS/OEAB		1	1		NRR/DRCH/HHFB		1	1
	NRR/DRCH/HICB		1	1		NRR/DRCH/HOLB		1	1
	NRR/DRIL/RPEB		1	1		NRR/DRSS/PRPB		2	2
	NRR/DSSA/SPLB		1	1		NRR/DSSA/SRXB		1	1
	REG FILE 02		1	1		RES/DSIR/EIB		1	1
	RGNI FILE 01		1	1					
EXTERNAL:	EG&G BRYCE, J.H		2	2		L ST LOBBY WARD		1	1
	NRC PDR		1	1		NSIC MURPHY, G.A		1	1
	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
Document Control Desk
Washington, DC 20555

SUSQUEHANNA STEAM ELECTRIC STATION
LICENSEE EVENT REPORT 94-001-00
FILE R41-2
PLAS - 587

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

Attached is Licensee Event Report 94-001-00. This report is being made pursuant to 10CFR50.73(a)(2)(iv), in that an unplanned Engineered Safety Feature actuation occurred when the 'C' Emergency Diesel Generator automatically started during surveillance testing.

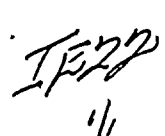

H.G. Stanley
VP - Nuclear Operations

HL/mjm

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LICENSEE EVENT REPORT (LER)

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST: 60.0 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.

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

TITLE (4)
Emergency Diesel Generator 'C' Unplanned Automatic Start

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	2	9	4	9	4	0	0	1	0	0	1	3	1	9	4	0	5	0	0	0	3	8	8
THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check one or more of the following) (11)										0 5 0 0 0 0															

OPERATING MODE (9) 5	20.402(b)	20.405(c)	<input checked="" type="checkbox"/>	50.73(a)(2)(iv)	73.71(b)
POWER LEVEL (10) 0 0 0	20.405(a)(1)(i)	50.38(c)(1)	<input type="checkbox"/>	50.73(a)(2)(v)	73.71(c)
	20.405(a)(1)(ii)	50.38(c)(2)	<input type="checkbox"/>	50.73(a)(2)(vii)	OTHER (Specify in Abstract below and in Text, NRC Form 366A)
	20.405(a)(1)(iii)	50.73(a)(2)(i)	<input type="checkbox"/>	50.73(a)(2)(viii)(A)	
	20.405(a)(1)(iv)	50.73(a)(2)(ii)	<input type="checkbox"/>	50.73(a)(2)(viii)(B)	
	20.405(a)(1)(v)	50.73(a)(2)(iii)	<input type="checkbox"/>	50.73(a)(2)(x)	

LICENSEE CONTACT FOR THIS LER (12)

NAME: Harrison Lloyd, Jr. - Compliance Engineer

TELEPHONE NUMBER: 7 1 7 5 4 2 - 3 9 1 7

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)

YES (If yes, complete EXPECTED SUBMISSION DATE) NO

EXPECTED SUBMISSION DATE (15)

MONTH: | DAY: | YEAR: |

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

On January 2, 1994, with Unit 1 in Condition 5 (Refueling) (0% power) and Unit 2 in Condition 1 (Run) (95% power) an unplanned start of the 'C' Emergency Diesel Generator (EDG) occurred during performance of surveillance testing. Following initial investigation, the 'C' EDG was shutdown. The test was then resumed and completed satisfactorily. This event was determined to be reportable per 10CFR50.73(a)(2)(iv) in that an unplanned Engineered Safety Feature actuation occurred when the 'C' EDG automatically started. There were no safety consequences or compromises to the public health or safety nor to plant personnel. This cause of this event was failure to perform procedural steps in the required order due to inadequate training for the person assisting the Test Director. We are evaluating the scope of training for those personnel who assist in the performance of testing activities. This training will be implemented for those personnel who assist in test performance in the future.

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.

FACILITY NAME (1) Unit 1 Susquehanna Steam Electric Station	DOCKET NUMBER (2) 0 5 0 0 0 3 8 7	LER NUMBER (6)			PAGE (3)		
		YEAR 9 4	SEQUENTIAL NUMBER 0 0 1	REVISION NUMBER 0 0	0 2	OF	0 3

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

DESCRIPTION OF EVENT

On January 2, 1994 at 2317 hours, with Unit 1 in Condition 5 (Refueling) (0% power) and Unit 2 in Condition 1 (Run) (95% power), an unplanned start of the 'C' Emergency Diesel Generator (EDG: EIIS Code: EK) occurred during performance of the "18 month Diesel Generator 'B' and 'D' Auto Start and ESS Busses 1B and 1D Energization on Loss of Offsite Power with a LOCA - Plant Shutdown" surveillance test. An operator (Utility, Non-Licensed) was dispatched to the 'C' EDG and determined that it was operating satisfactorily. The Test Director (utility, Non-licensed) in the Control Room determined that the start was the result of failure to perform procedural steps in the required order. Shift Supervision (Utility, Licensed) then directed shutdown of the 'C' EDG. The test was placed on hold until the cause of the unexpected start was determined and appropriate personnel were interviewed. Following this determination, the test was resumed and completed satisfactorily.

REPORTABILITY/ANALYSIS

This event was determined to be reportable per 10CFR50.73(a)(2)(iv) in that an unplanned Engineered Safety Feature (ESF) actuation occurred when the 'C' EDG automatically started. The 'C' EDG started per design (Division II RHR initiation signal during testing) and performed properly. Three ESS 4.16 KV busses and three associated EDG's remained OPERABLE thus meeting the Technical Specification requirements for Unit 1 which was in Condition 5 at the time. The 'C' EDG remained available throughout the event to energize the associated Unit 2 ESS 4.16 KV bus and perform its design function on Unit 2, which was in Condition 1, if required to do so. As such, there were no safety consequences or compromises to the public health or safety or to plant personnel.

CAUSE OF EVENT

The cause of this event was failure to perform procedural steps in the required order. A thorough briefing was held prior to the start of testing including procedural adherence requirements, precautions, communications and step sign-offs. The procedure was reviewed and determined to be correct and adequate. The failure to perform the procedural steps properly was attributed to inadequate training for the person assisting the test director. Presently, all Test Directors are trained and qualified per our existing program which is considered adequate. The test director (utility, Non-licensed) had told the person assisting to remove a cover to gain access to state links. The person assisting interpreted this order to mean that once the cover was removed, proceed with subsequent steps. However, the step to place the keylock switch in the Division II Test position had not yet been accomplished. This switch blocks the start signal to the EDG for testing purposes. Thus, when the states link was opened out of appropriate order, the 'C' EDG started.



LICENSEE EVENT REPORT (LER)
TEXT CONTINUATION

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

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

CORRECTIVE ACTION

The 'C' EDG was shutdown and returned to normal standby status following initial investigation and verification that power remained available to the 1C and 2C ESS busses. Interviews with all personnel involved were completed to assist in the investigation. Systems Engineering is evaluating the scope of training for those personnel who assist in the performance of testing activities. This training will be completed for those personnel in the future. In this event, a qualified Test Director was directing performance of the test, but the person assisting did not require specific qualification.

ADDITIONAL INFORMATION

Failed Component Identification: Not Applicable

Previous Similar Reported Events:

Although there have been reports involving unexpected start of Emergency Diesel Generators, there have been none caused by procedural non-compliance.