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ACCESSION NBR:8806300210 DOC.DATE: 88/06/22 NOTARIZED: NO DOCKET #
 FACIL:50-388 Susquehanna Steam Electric Station, Unit 2, Pennsylvla 05000388
 AUTH.NAME AUTHOR AFFILIATION
 RYDER,T.S. Pennsylvania Power & Light Co.
 BYRAM,R.G. Pennsylvania Power & Light Co.
 RECIP.NAME RECIPIENT AFFILIATION

SUBJECT: LER 88-009-00:on 880524,MSIV isolation signal initiated when
 printed circuit card reinserted.

W/8 ltr.

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

NOTES:LPDR 2 cys Transcripts.

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LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) Susquehanna Steam Electric Station Unit 2	DOCKET NUMBER (2) 0 5 0 0 0 3 8 8	PAGE (3) 1 OF 0 3
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TITLE (4)
MSIV Isolation Signal Initiated When Printed Circuit Card was Reinserted

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 4	8 8	8 8	0 0	9 0 0						0 5 0 0 0
DOCKET NUMBER(S) 0 5 0 0 0											

OPERATING MODE (9) 5	THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check one or more of the following) (11)										
POWER LEVEL (10) 0 0 0	<input type="checkbox"/> 20.402(b)	<input type="checkbox"/> 20.405(c)	<input checked="" type="checkbox"/> 50.73(a)(2)(iv)	<input type="checkbox"/> 73.71(b)							
	<input type="checkbox"/> 20.405(a)(1)(i)	<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)(ii)	<input type="checkbox"/> 50.36(c)(2)	<input type="checkbox"/> 50.73(a)(2)(vii)	OTHER (Specify in Abstract below and in Text, NRC Form 366A)							
	<input type="checkbox"/> 20.405(a)(1)(iii)	<input 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)(ix)									

LICENSEE CONTACT FOR THIS LER (12)

NAME T.S. Ryder - Power Production Engineer	TELEPHONE NUMBER
	AREA CODE: 7 1 7 NUMBER: 5 4 2 - 3 2 3 5

COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)

CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NRPDS	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NRPDS

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 May 24, 1988 with Unit 2 in Condition 5 at 0% power, an ESF actuation occurred when an isolation signal to the MSIV's was initiated when an I&C technician pushed in a printed circuit card part way to avoid interference with the door to the EHC Cabinet. This event was determined to be reportable per 10CFR50.73 (a) (2) (iv), in that the inadvertent MSIV isolation signal constituted an unplanned ESF actuation. Adequate protection against an outside release of radioactive material was ensured during the event since the MSIV's were already closed in their safety function position. The EHC printed circuit card had been pulled out to facilitate troubleshooting for an EHC problem on the Main Turbine. When the card was partially reinserted, design conditions were met to initiate the MSIV isolation trip logic. The cause of the event is an I&C Department program error governing normal work practices. It has been I&C work practice to leave circuit cards in the shelf position (pulled, but still in position) for situations when it has been necessary to remove them during work activities. Immediate corrective actions included pulling out the printed circuit card and resetting the isolation logic and associated alarms. The I&C work proactice of leaving circuit cards pulled but left in the shelf will be discontinued for all circuit cards which cause trip functions. The event will be discussed at the next I&C shop meeting and the change in the I&C work practice will be emphasized to the appropriate personnel.

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

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		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
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TEXT (If more space is required, use additional NRC Form 365A's) (17)

DESCRIPTION OF EVENT

At 0915 hours on May 24, 1988 with Unit 2 in condition 5 at 0% power, an Instrumentation and Controls (I&C) technician (utility, non-licensed) pushed in a printed circuit card part way to avoid interference with the door to the Electrohydraulic Controls (EHC, EIIS Code: TG) Cabinet. When the card was pushed in, the Main Stop Valves for the Main Turbine (EIIS Code: TA) opened and a closure signal was initiated to the Main Steam Isolation Valves (MSIV's, EIIS Code: SB). The MSIV's were already closed at the time and therefore no valve motion occurred. The printed circuit card was pulled out and the MSIV isolation signal and associated alarms were reset.

CAUSE OF EVENT

The EHC printed circuit card had been pulled out to facilitate troubleshooting for an EHC problem in which the main turbine would automatically shift to 1800 RPM speed select without operator action when the turbine was reset. The card was pulled out to prevent an MSIV isolation logic initiation during the trouble shooting. One of the situations in which this logic is designed to pick up is when the Main Stop Valves are open and there is a low condenser vacuum condition present. When the card was reinserted, it was pushed in far enough to make up part of the circuitry and cause the Main Stop Valves to open. Since a low condenser vacuum condition was also present, the MSIV isolation trip logic picked up as designed. The cause of the event is an I&C Department program error governing normal work practices. It has been I&C work practice to leave circuit cards in the shelf position (pulled, but still in position) for situations when it has been necessary to remove them during work activities. This essentially set up the technician who partially inserted the card in order to close the cabinet door.

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

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

REPORTABILITY/ANALYSIS

This event was determined to be reportable per 10CFR50.73 (a) (2) (iv) in that the closure signal to the MSIV's constituted an unplanned ESF actuation. Adequate protection against an outside release or radioactive material was ensured during the event. The MSIV's, even though not required to be operable in Condition 5 per Technical Specifications, were positioned in the closed position throughout the event which is their containment isolation safety function position.

CORRECTIVE ACTIONS

Immediate corrective actions included pulling out the printed circuit card and resetting the isolation logic and associated alarms. The I&C work practice of leaving circuit cards pulled but left in the shelf will be discontinued for all circuit cards which cause trip functions. The event will be discussed at the next I&C shop meeting and the change in I&C work practice will be emphasized to the appropriate personnel.

ADDITIONAL INFORMATION

Failed Component Identification: Not applicable.

Previous Similar Events: None.



Pennsylvania Power & Light Company

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

June 22, 1988

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

SUSQUEHANNA STEAM ELECTRIC STATION
LICENSEE EVENT REPORT 88-009-00
FILE R41-2
PLAS- 322

Docket No. 50-388
License No. NPF-22

Attached is a Licensee Event Report 88-009-00. This event was determined reportable per 10CFR50.73(a) (2) (iv) in that the unit experienced an unanticipated Engineered Safety Feature actuation when a trip signal to the MSIV isolation logic was initiated.

R.G. Byram
Superintendent of Plant Susquehanna

TSR/mjm

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