

NRC FORM 366  
(12-81)  
10 CFR 50U.S. NUCLEAR REGULATORY COMMISSION  
LICENSEE EVENT REPORTAPPROVED BY OMB  
3150-0011CONTROL BLOCK: ☐ ☐ ☐ ☐ ☐ ☐ (1) (PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

0	1	P	A	S	E	S	1	2	0	0	-	0	0	0	G	0	-	0	0	3	4	1	1	1	1	4		5
7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35

CONT

0	1	L	6	0	5	0	0	0	3	8	7	7	0	4	0	4	8	3	8	0	5	2	5	8	3	9		
7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

0 2 As part of the Startup Test Program a full MSIV Isolation was initiated while at

0 3 100% power. In accordance with planned outage/test schedules the plant was placed

0 4 in cold shutdown. The following day, analysis of test data showed that Level 1

0 5 Test Criteria (Stroke Time Limit) for one valve was not met. The startup test did

0 6 not reference Technical Specification requirements, therefore, it was not immed-

0 7 iately recognized as affecting a limiting condition for operation.

0	9	C	D	11	E	12	B	13	V	A	L	V	E	X	14	F	15	D	16
7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26

  

17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
8	3			0	5	9		0	3	X			1																	

  

E	18	Z	19	Z	20	Z	21	0	0	0	0	Y	23	N	24	N	25	A	5	8	5									
33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

1 0 The "C" Inboard MSIV, which closed too fast, was found to have a leaking dashpot.

1 1 The leak was fixed and oil added to the dashpot, the valve stroke time was

1 2 successfully retested. Procedure changes have been instituted to ensure Technical

1 3 Specification requirements are clearly reflected in startup test procedures.

1	5	B	28	1	0	0	29	NA	30	STA Observation	32
7	8	9	10	11	12	13	14	15	16	17	18

  

1	6	Z	33	Z	34	NA	35	NA	36
7	8	9	10	11	12	13	14	15	16

  

1	7	0	0	0	37	Z	38	NA	39
7	8	9	10	11	12	13	14	15	16

  

1	8	0	0	0	40	NA	41	NA	42
7	8	9	10	11	12	13	14	15	16

  

1	9	Z	42	NA	43	NA	44	NA	45
7	8	9	10	11	12	13	14	15	16

  

2	0	N	44	NA	45	NA	46	NA	47
7	8	9	10	11	12	13	14	15	16

NAME OF PREPARER A.P. Piemontese

PHONE (717)542-2181 X3246

8306020401 830525  
PDR ADOCK 05000387  
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NRC USE ONLY

ATTACHMENT

LER # 83-059/03X-1

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

The MSIV's were closed in accordance with Startup Test ST 25.3, "Full (MSIV) Isolation", on April 4, 1983 at 2320. Because of ongoing tests following ST 25.3, offline plots of MSIV data were not immediately made. The failure to satisfy a Level 1 Acceptance Criteria concerning minimum allowable MSIV closure time was analyzed at 1030 on April 5, 1983.

The Level 1 Acceptance Criterion which was not satisfied reads "Closure time for the fastest MSIV shall be greater than or equal to 2.5 seconds." The bases for this criterion is to prevent valve damage and is not part of the safety analysis. There is another Level 1 Acceptance Criterion which is based on the safety analysis which reads "The average of the closure times for the fastest MSIV in each steam line, exclusive of delay, shall not be less than 3.0 seconds". Thus the Startup Test Specifications were based on the safety analysis but specify a limit that is not as conservative as the Technical Specification which requires all MSIV's to close in greater than or equal to 3 seconds.

The Startup Test Administrative Procedure requires that whenever a Level 1 Acceptance Criterion is failed, the plant must be placed in a suitable hold condition at which prior testing was successfully completed. Since the plant was already in a condition at which prior testing was successfully completed, that being Hot Shutdown, no further immediate action was taken other than the processing of a Test Exception Report.

The plant was placed in Condition 4 on April 8, 1983, at 0656. Between the time of the MSIV isolation test and the achievement of cold shutdown, the MSIV's were cycled open and closed twice. The event was not recognized as a Tech. Spec. LCO violation and the appropriate corrective action was not taken.

The inboard MSIV F022C which closed too fast during ST 25.3 also subsequently failed Local Leak Rate Testing (LER 83-064/03L-0). During rework, an oil leak on the dashpot was discovered. The leak was repaired and oil was added to the dashpot. The valve was subsequently timed and found to close in 3.97 seconds.

Per the Test Exception Report resolution, MSIV F022C will be retested at 5% and maximum testable power levels during the subsequent startup.

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Startup Test Administrative Procedures were revised to require:

- all Startup Test Acceptance Criteria which are based on a Tech. Spec. LCO shall be at least as conservative as the Tech. Spec.
- The Tech. Spec. LCO number shall be included in a parenthetical expression immediately following Technical Specification based Acceptance Criterion.
- Immediate notification of Shift Supervision shall be mandatory upon failure of Technical Specification based Acceptance Criterion.

All Startup Tests remaining to be run have been reviewed for Technical Specification based Acceptance Criterion. Startup Test Change Notices have been processed to incorporate the administrative procedure revision. The administrative procedure revisions will be incorporated into Unit 2 Startup Tests as they are written.



Pennsylvania Power & Light Company

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

May 25, 1983

Mr. J.M. Allan  
Acting Regional Administrator, Region I  
U.S. Nuclear Regulatory Commission  
631 Park Avenue  
King of Prussia, PA 19406

SUSQUEHANNA STEAM ELECTRIC STATION  
LICENSEE EVENT REPORT 83-059/03X-1  
ER 100450 FILE 841-23  
PLA-1682

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

Dear Mr. Allan:

Attached please find a copy of Licensee Event Report No. 83-059/03X-1. This event was determined to be reportable per Technical Specification 6.9.1.9.b, in that analysis of startup test data showed a Main Steam Isolation Valve closing time did not meet Technical Specification Limits. This provides an update to a previously submitted report.

H.W. Keiser  
Superintendent of Plant-Susquehanna

APP/pjg

attachment

cc: Director of Nuclear Reactor Regulation  
Attention: Mr. A. Schwencer, Chief  
Licensing Branch No. 2  
Division of Licensing  
U.S. Nuclear Regulatory Commission  
Washington, DC 20555

G.G. Rhoads  
Resident Inspector  
U.S. Nuclear Regulatory Commission  
P.O. Box 52  
Shickshinny, PA 18655

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