NRC Form 366 9-831				LIC	ENSE	E EVE	NT RE	PORT	(LER)		CLEAR REGULA	TORY COMMISSION (0. 3150-0104					
FACILITY NAME (1	3	OCKET NUMBER	ET NUMBER (2) PAGE (3)														
	uehann	a Ste	eam Elec	tric St.	atio	n - Ur	nit 1			0 5 0 0	013181	7 1 0 0 12					
TITLE (4)	Seram	Time	Measure	mante													
EVENT DATE			LER NUMBER			PORT DAT	F (7) T		OTHER	FACILITIES INVOL	VED (8)						
MONTH DAY	YEAR Y	EAR	SEQUENTIAL	AEVISION NUMBER	MONTH	1 1	YEAR		FACILITY NAM	A FACILITIES INVOLVED (8) AMES DOCKET NUMBER(S)							
											0 15 10 1	0 0 1 1					
	alla	1	- al i li				[
0 6 1 3		4	0 4 4	0 0		16		CER 8. //	Chart and or more	of the following) (11	0 15 10 1	010111					
MODE (9)		20.402			20.406		INTE OF IL	CPH g: IL	50.73(a)(2)(iv)	ir the rundwing) (11	73.71(b)						
POWER		20.405	(a)(1)(i)		50.386				60.73(a)(2)(v)		73.71(0)						
(10) 1	010	20.406	ia)(1)(ii)		50.36	e)(2)			80.73(a)(2)(vii)		OTHER (Specify in Abstract in Text, NRC Form					
	L	-	(a)(1)(Ni)	×	60.736	a)(2)(1)			50,73(a)(2)(viii)(/	A)	366A)						
	-	-	i(a)(1)(iv)		1	a)(2)(ii)		-	60,73(a)(2)(vili)(1								
		1 20.400	i(a)(1)(v)		1	E CONTACT	FOR THIS	LER (12)	50.73(e)(2)(x)								
NAME											TELEPHONE NU	MBER					
R.W.	Stanl	ey								AREA CODE							
										the second s	514121	-13191310					
				1	EACH C	OMPONEN	FAILURE	DESCRIBE	D IN THIS REPOR	T (13)	1						
CAUSE SYSTEM	COMPONE	NT	MANUFAC. TURER	REPORTABLE TO NPROS			CAUSE	SYSTEM	COMPONENT	MANUFAC. TURER	REPORTABLE TO NPROS	· .					
N/A I	11	1	111		ļ		-	1	111	111							
	11	1	111							1111							
		_	SUPPLEME	INTAL REPORT	EXPECT	ED (14)	_			EXPECTE	D MONT	TH DAY YEAR					
X YES I'lf you, o	ompiete EXPE	CTED SU	BMISSION DATE	Ð	ŀ	NO				SUBMISSIO	5)	1 310 815					
Days time fast 42-3 anal exce All met. rods arra To p 1) E i 2) F a 3) P s	ng the ', fol requi est ro 9, and ysis r eded i other When scram y whic revent ach Co mprove ollowi nd fou rocedu chedul he Rea	perf lowin red p ds in 42-4 esult ts T. Accep proc med v h fai recu ntrol reli ng mc res res tc tor 4112	formance ng the R ber T.S. h the fo 43]. Du ts, one .S. 3.1. btance C cedure S within T iled the urrence, l Rod Sc iability bdificat b be wit R-155-00 b be rev	of SR- eactor 3.1.3. llowing e to an group of 3.4 L.C riteria R-155-0 echnica June si these ram Pill ions, en hin the 3 and the ised by ring Gro	155-(Scrar 4 was 2x2 over f fou .0. I for 03 wa 1 Spo urve action ot Va action t va action ot Va require he co 12/ oup I	003 'S m of s array rsight ur (4) by .01 SR-15 as per ecific illand ons ha alve r Contro uired ompute 31/84.	lune 1 met f to p duri cont 2 sec 55-003 forme cation ce. ave be has be ol Rod scram er pri	3, 19 or th ositi ng th rol r onds. for d on Limi en ta en ex on b time nt ou	84, the a e insertion 45 [Ro e review ods out of the June July 15, tations, tations, ken: camined ar oth units specific t used with	ent of Roc average so on of the ods: 38-39 of the co of 2,496 a 13, 1984 1984, all including ad modifie s has been cations. ith this inc	ethree analyzed scram w contro the 2x ed to h scram procedur	ertion (3) , as 1 2 tested					

...

LICENSEE	EVENT	REPORT	(LER)	TEXT	CO	NTINUATION	

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED OMB NO. 3150-0104 EXPIRES 8/31/85

FACILITY NAME (1)		DOCKET NUMBER (2)										LE	A N	UMBER (6)	PAGE (3)					
Susquehanna Steam Electric Station Unit 1											YE	AR		99	QUENTIAL NUMBER		REVISION NUMBER			
		0 5	5	0	0	10	1	3!	8	7	814	4	_	0	4 4	-	0 0	0 2	OF	0 2

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

During the performance of SR-155-003, 'Scram Time Measurement of Rods Every 120 Days', following the Reactor Scram of June 13, 1984, the average scram insertion time required per T.S. 3.1.3.4 was not met for the insertion of the three (3) fastest rods in the following 2x2 array to position 45 [Rods: 38-39, 38-43, 42-39, and 42-43]. Due to an oversight during the review of the computer analysis results, one group of four (4) control rods out of 2,496 analyzed exceeded Technical Specification 3.1.3.4 Limits by.012 seconds, .462 seconds vs. .450 as required by Acceptance Criteria.

Technical Specification 3.1.3.2, 'Individual Scram Insertion Speeds to Position 05', and Technical Specification 3.1.3.3, 'Average Rod Insertion Speeds to Position 05, 25, 39, and 45', were in full compliance for each of the 185 control rods analyzed.

Had the insertion speeds to position 45 for the above four (4) control rods been identified in June, retesting would have been performed immediately. Based on 10/6/84 data, the root cause of the slower than allowed control rod scram times was identified to be the sticking of the disc in the scram pilot valves. Therefore, due to the nature of the failure mechanism, even if the slow rod scram times had been identified, an immediate retest would have been within the Technical Specification Limits. Additionally, during the reactor scram of July 15, 1984, SR-155-003 was performed and all control rods parameters were within Technical Specification Limitations, including the Zx2 array which failed the June surveillance.

Since the average scram insertion speeds to position 39 were within specifications on 6/13/84, the value Υ (Tau) used in the determination of M.C.P.R. per Technical Specification 3.4.2.3 was not affected.

To prevent recurrence, these actions have been taken:

- Each Control Rod Scram Pilot Valve has been examined, and modified to improve reliability by replacement of the polyurethane disc holder sub-assembly with one made of Viton, which is a more resilient material.
- Each control rod on both units has been scram tested and found to be within the required scram time specifications during the plant startups following modifications.
- The Scram Analysis Computer Program is scheduled to be modified to specify all Technical Specifications violations on page one (1) of the output by 12/31/84.
- 4) The Reactor Engineering Group has attended training on this incident to review the causes and corrective actions.
- 5) The Reactor Engineering Group has attended training to review each engineers responsibilities during the performance of surveillances.
- 6) All Reactor Engineering Surveillances are scheduled to be reviewed, and revised as necessary to include an "AS FOUND" Column for each acceptance criteria by 12/31/84.



SUSQUEHANNA STEAM ELECTRIC STATION PO BOX 467, BERWICK, PA 18603

November 16, 1984

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

SUSQUEHANNA STEAM ELECTRIC S ION LICENSEE EVENT REPORT 84-044-00 ER 100450 FILE 841-23 PLAS-010

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

EZ

Attached is Licensee Event Report 84-044-00. This event was determined reportable per 10CFR50.73(a)(2)(i), in that a Technical Specification Limit was exceeded.

Kein

H.W. Keiser Superintendent of Plant-Susquehanna

RWS/pjg

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

> Mr. R.H. Jacobs Senior Resident Inspector U.S. Nuclear Regulatory Commission P.O. Box 52 Shickshinny, PA 18655