NRC Form (9-83)	LICENSEE EVENT REPORT (LE						(LER)	U.S. NUCLEAR REGULATORY COMMISSION APPROVED OMB NO. 3150-0104 EXPIRES: 8/31/85						
FACILITY	NAME IT)									DOCKET NUMBER	(2)	PAGE (3)	
	Sus	queha	anna S	team Elec	ctric St	ation	n				0 5 0 0	0 3 8 7	1 OF 0 12	
TITLE IA		rious	Acti	ation of	Turbine	Bui	lding	SPIN	Flus	h				
EVI	ENT DATE	-	7 110 00	LER NUMBER			PORT DAT	-			FACILITIES INVOL	VED (8)		
MONTH	DAY	YEAR	YEAR SEQUENTIAL NUMBER		REVISION	MONTH	DAY	YEAR	FACILITY NAMES		LMES	DOCKET NUMBER	BER(S)	
				- AUMBER	- NOMBER							0 5 0 0 0 1 1		
0 3	3 1	8 4	8 4	0 2 2	- 00	0 4	3 0	8 4				0 5 0 : 0	101 1 1	
	RATING		-	DAT IS SUBMITTE	D PURBUANT 1		EQUIREM	ENTE OF 10	CFR 5: /0	Check one or more	of the following) (11)		
POWER LEVEL 11010		20.405(a)(1)(ii) 20.405(a)(1)(iii) 20.405(a)(1)(iii) 20.405(a)(1)(iv) 20.405(a)(1)(iv)			20.406(a) 90.38(a)(1) 90.38(a)(2) 90.73(a)(2)(i) 90.73(a)(2)(ii) 90.73(a)(2)(iii)			50.73(a)(2)(iv) 50.73(a)(2)(vi) 50.73(a)(2)(vii)(A) 50.73(a)(2)(viii)(A) 50.73(a)(2)(viii)(B) 50.73(a)(2)(viii)(B)			73,71(a) 73,71(a) OYHER (Specify in Abstract below and in Text, NRC Form 366A)			
						ICENSES	CONTACT	FOR THIS	LER (12)				***	
NAME	Ben	jamir	n L. W	lilks							7 11 1 7	5 4121-	1 312 13 1 9	
				COMPLETE	ONE LINE FOR	EACH C	OMPONEN	T PAILURE	DESCRIBE			1.71.51	1 212 12 1.5	
CAUSE	SYSTEM	COMP	ONENT	MANUFAC- TURER	REPORTABLE TO NPROS			CAUSE	SYSTEM	COMPONENT	MANUFAC TURER	REPORTABLE TO NPROS		
х	IIL	IM	IO I N	E1 01710	N					111	111			
_		-1-							1	111	1111			
	-			BUPPLEME	INTAL REPORT	EXPECT	ED (14)					MONTH	DAY YEAR	
-							7				SUBMISSI DATE III	DN:		

At 0732 hours on 3/31/84 with Unit 1 at full power an NPO on rounds found proce flow as the Turbine Building SPING local pane! indicating the purge mode of operation alarms occurred at the same time in the printout of the control terminal in the Control Room. An LCO was entered in accordance with Technical Specification Section 3.3.7.11. Immediate corrective action was taken by resetting the purge and ensuring that normal sample flow was established. Investigation indicate the Turbine Building PING "PURGE" command was not entered at either the local or remote control consoles, nor was there any reason to believe that the command was initiated by depressing the "PURGE" push button on the local SPING panel. Discussion with the SPING vendor, Eberline Corporation, indicates that a fluctuation in the input voltage to the SPING's Auto Purge option may cause a spurious "PURGE" command. In an attempt to prevent a recurrance of this event, a pull up resistor is being added to the SPING's Auto Purge input circuit that will have the effect of maintaining a constant input voltage and thus eliminating the possibility of a spurious SPING purge.

Operator awareness identified the occurrance of this event and resulted in the SPING being returned to service in approximately 44 minutes. The health and safety of the public was not affected during this event.

8405080245 840430 PDR ADOCK 05000387 PDR

NRC Form 384A (9-43) LICENSEE EVENT	REPORT (LER) TEXT CONTINU	ATIO	N			MB NO 3150-0	
PACILITY NAME (1)	DOCKET NUMBER (2)		LEF	NUMBER (6)		PAGE (3)	
Susquehanna Steam Electric Statio	on	YEAR		SEQUENTIAL	MEVISION: NUMBER		
Unit 1	0 5 0 0 0 3 8 7	814	_	01212	-010	0 1 2 OF	0 2

TEXT /// more apace ~ required, use additional NRC Form 386A's) 1171

At 0732 hours on 3/31/84 with Unit 1 at full power, an NPO on rounds found purge flow at the Turbine Building SPING local panel indicating the purge mode of operation; alarms occurred at the same time in the printout of the control terminal in the Control Room. With the SPING in the PURGE mode of operation, the Iodine, Particulate and Noble Gas Radiation Monitors were no longer analyzing the atmosphere contents of the Turbine Building but the purge air supplied by the Instrument Air System.

A Limiting Condition for Operation (LCO) was entered in accordance with Technical Specification Section 3.3.7.11. Immediate corrective action was taken by resetting the purge and ensuring the normal sample flow from the Turbine Building was re-established.

Investigations into the unexplained Turbine Building SPING purge showed that the SPING "PURGE" command could have been initiated at (1) the TSC Control Terminal Keyboard, (2) The Control Room Control Terminal Keyboard, (3) The local SPING control panel via the "PURGE" push button. Inspection of the printed output from the Control Room Control Terminal showed that the PURGE command was not initiated at either of the Control Terminal Keyboards since it was not prefaced with the heading "FLUSH-ON" along with the channel number above the channel status. Furthermore, the purge could not have been initiated by depressing the PURGE push-button at the local SPING control panel since no personnel other than the NPO were in the area during this time frame.

Eberline Corporation, the SPING vendor knew of no microprocessor failure in their experience that could produce a self generated "PURGE" command. Eberline did, however, indicate that a malfunction could occur as a result of a voltage fluctuation at the input to the transistorized switch used for initiation of the AUTO PURGE option. It was concluded that this was the most probable cause for the unexplained purge of the Turbine Building SPING. Actions are being taken to eliminate input voltage fluctuations to the auto purge transistorized switch by installing a "pull up" resistor which insures a constant voltage to the input of the transistor switch.

Operator awareness identified the occurrence of this event and resulted in the SPING being returned to service in approximately forty-four (44) minutes. The health and safety of the public was not affected during this event.



Pennsylvania Power & Light Company

April 30, 1984

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

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

SUSQUEHANNA STEAM ELECTRIC STATION LICENSEE EVENT REPORT 84-022-00 ER 100450 FILE 841-23 PIA-2191

Attached is Licensee Event Report 84-022-00. This event was determined reportable per 10CFR50.73(a)(2)(i) in that less than the minimum number of operable channels specified were available for monitoring Turbine Building Ventilation due to an apparent spurious flush of the Turbine Building SPING.

H.W. Keiser

Superintendent of Plant-Susquehanna

BLW/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

1622