

LICENSEE EVENT REPORT (LER)

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 2	
TITLE (4) Monthly Composite Sample Analyses Not Completed Due to Low Sample Volume.															
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)		
									SSES - Unit 2				0 5 0 0 0 3 8 8		
0 2	1 3	8 5	8 5	0 0 6	0 0	0 3	1 5	8 5					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 1 0		20.402(b)				20.405(c)				50.73(a)(2)(iv)				73.71(b)	
		20.405(a)(1)(i)				50.36(c)(1)				50.73(a)(2)(v)				73.71(c)	
		20.405(a)(1)(ii)				50.36(c)(2)				50.73(a)(2)(vii)				OTHER (Specify in Abstract below and in Text, NRC Form 356A)	
		20.405(a)(1)(iii)				X 50.73(a)(2)(i)				50.73(a)(2)(viii)(A)					
		20.405(a)(1)(iv)				50.73(a)(2)(ii)				50.73(a)(2)(viii)(B)					
		20.405(a)(1)(v)				50.73(a)(2)(iii)				50.73(a)(2)(ix)					
LICENSEE CONTACT FOR THIS LER (12)															
NAME L.A. Kuczynski - Nuclear Plant Specialist, III										TELEPHONE NUMBER AREA CODE 7 1 7 5 4 2 - 3 7 5 9					
COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)															
CAUSE	SYSTEM	COMPONENT	MANUFAC TURE	REPORTABLE TO NPROS		CAUSE	SYSTEM	COMPONENT	MANUFAC TURE	REPORTABLE TO NPROS					
A	WID	*	*	N											
SUPPLEMENTAL REPORT EXPECTED (14)										EXPECTED SUBMISSION DATE (15)		MONTH	DAY	YEAR	
YES (If yes, complete EXPECTED SUBMISSION DATE)										X NO					

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

The Senior Chemist identified that the analyses of the composite sample of liquid radwaste released during December, 1984, were not completed as required by Technical Specification Table 4.11.1.1.1-1. It was determined that the December aliquots had been added to the wrong monthly composite container. Procedure changes will be made to prevent recurrence of this event. Pre-release isotopic analyses of the three discharges made in December showed no identifiable gamma activity. As a conservative measure, dose calculations for December will use the November tritium and gross alpha results as estimates.

* Not Applicable

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED OMB NO. 3150-0104

EXPIRES: 8/31/85

FACILITY NAME (1) Susquehanna Steam Electric Station Unit 1	DOCKET NUMBER (2) 0500038785	LER NUMBER (6)			PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
		00	06	00	02	OF	02

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

The Senior Chemist identified that the analyses of the composite sample of liquid radwaste (LRW) released during December, 1984, were not completed as required by Technical Specification Table 4.11.1.1.1-1. The cause was initially suspected to be too low a composite sample volume due to the low volume discharged from LRW. Further investigation, however, identified the main problem as the addition of the December aliquots to the wrong monthly composite container.

Normally on the first day of each month, a Monthly Composite sample container is prepared for the new month and is given a Sample Number. At the time of the first discharge for the month, a LRW Effluent Monthly Tritium and Gross Alpha Surveillance Procedure is initiated. In December, at this time, a cognitive error was made and the wrong Monthly Composite Number was recorded on the Surveillance for December. The sample aliquot for this first discharge was added to the wrong sample and as the two subsequent discharges were made in December, the Technicians (non-licensed, utility), referring to the Surveillance Procedure with the wrong Sample Number, added additional sample aliquots to the wrong composite.

Had the samples not been composited incorrectly, the initial issue of low sample volume (~40 ml) would have been a problem and it may not have been possible to do both tritium and gross alpha at the required sensitivity.

The pre-release analysis results of the three discharges for December identified no gross activity in any of the discharges. Dose calculations for December will use the November tritium and gross alpha results as estimates.

This is reasonable based upon the following:

- 1) LRW discharge sample gross alpha results have been less than LLD for all monthly composite sample to date and tritium sample results have been relatively constant.
- 2) Using the November results will be conservative since the November Monthly Composite included a number of LRW Sample Tanks which typically have more activity than the Laundry Drain Sample Tanks which were the only discharges for December.

To prevent recurrence, two changes will be made to SC-069-003, Radioactive Liquid Waste Post-Release Sample Collection Month / Tritium and Gross Alpha Analysis. The first change will specify that the label of the completed month's composite sample will be clearly marked with words to the effect of COMPOSITING ENDED. This will make it clear that no additional aliquots are to be added to that container. The second change will require the sample label for the new month to have, as the Sample Description, the Month/Year of the composite.

To prevent occurrence of the potential problem of having insufficient sample volume to perform the analyses, SC-069-001, Liquid Radwaste Sampling and Pre-Release Analysis, has been changed to composite a larger sample aliquot per volume of waste discharged. This should provide adequate sample volume, even at minimum monthly discharge volumes.



Pennsylvania Power & Light Company

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U.S. Nuclear Regulatory Commission
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SUSQUEHANNA STEAM ELECTRIC STATION
LICENSEE EVENT REPORT 85-006-00
ER 100450 FILE 841-23
PLAS-054

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

Attached is Licensee Event Report 85-006-00. This event was determined reportable per 10CFR50.73(a)(2)(i), in that the analysis of the monthly composite sample of liquid radwaste discharged for December, 1984, was not completed.

H.W. Keiser
Superintendent of Plant-Susquehanna

LAK/pjg

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