

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) Sequoyah, Unit 1	DOCKET NUMBER (2) 0 5 0 0 0 3 2 7 1	PAGE (3) OF 0 4
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TITLE (4)
Failure To Perform SIs On Time Due To A Personnel Error And A Component Failure

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)
									Sequoyah, Unit 2		0 5 0 0 0 3 2 8
0 8 2 6 8 6 8 6	0 3 7	0 0 0 9 2 5 8 6									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	20.402(b)	20.406(c)	50.73(a)(2)(iv)	73.71(b)						
	20.406(a)(1)(i)	50.38(c)(1)	50.73(a)(2)(v)	73.71(c)						
	20.406(a)(1)(ii)	50.38(c)(2)	50.73(a)(2)(vii)	OTHER (Specify in Abstract below and in Text, NRC Form 366A)						
	20.406(a)(1)(iii)	XX 50.73(a)(2)(i)	50.73(a)(2)(viii)(A)							
	20.406(a)(1)(iv)	50.73(a)(2)(ii)	50.73(a)(2)(viii)(B)							
20.406(a)(1)(v)	50.73(a)(2)(iii)	50.73(a)(2)(ix)								

LICENSEE CONTACT FOR THIS LER (12)		TELEPHONE NUMBER	
NAME Ken Meade, Plant Operating Review Staff		AREA CODE 6 1 5	8 7 0 - 6 2 5 0

COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)											
CAUSE	SYSTEM	COMPONENT	MANUFAC TURER	REPORTABLE TO NPRDS	CAUSE	SYSTEM	COMPONENT	MANUFAC TURER	REPORTABLE TO NPRDS		
X	L	Q C T R	N 3 0 5	No							
X	L	Q C T R	B 1 3 5	No							

SUPPLEMENTAL REPORT EXPECTED (14)			EXPECTED SUBMISSION DATE (15)	MONTH	DAY	YEAR
<input type="checkbox"/> YES (If yes, complete EXPECTED SUBMISSION DATE)			<input checked="" type="checkbox"/> NO			

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

On August 26, 1986, with units 1 and 2 in mode 5 (145 psi, 119 degrees F and 53 psi, 128 degrees F, respectively) and on August 29, 1986, with units 1 and 2 in mode 5 (325 psi, 127 degrees F and 240 psi, 125 degrees F, respectively), it was noted that the following four Surveillance Instructions (SIs) were not performed within their allowable timeframes: SI-244, "Periodic Functional Tests of Radioactive Effluent Monitoring Instruments (Quarterly)," SI-403, "Monthly Radiochemical Analysis," SI-409, "Quarterly Radiochemical Analysis (Gaseous and Liquid Effluents)," and SI-422.1, "Monthly 10 CFR 50 Appendix I Dose Calculations - Liquid Effluents." These surveillances are required by Technical Specifications (TS) 4.3.3.9, 4.11.1.1.1, 4.11.1.1.1, and 4.11.1.2, respectively.

SI-244 was late due to a personnel error. The instrument craft supervisor failed to send the instruction to the instrument shop for performance before the NRC deadline had passed. The SI was immediately run upon discovery of its tardiness. The instrument craft supervisor was verbally counseled on the seriousness and consequences of allowing a SI to be delinquent. SIs -403, and -409 were performed late due to problems with the samples used to complete the analyses. SI-422.1 uses the data from SI-409 to complete its calculations. Thus, it was also performed late. The problems were a result of a personnel error and a component failure. The personnel was counseled on following procedures, and the Liquid Scintillation Counter was repaired. The severity of the events would not have been changed had the units been in different operational modes.

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

DESCRIPTION OF EVENTS

These events involve surveillance instructions (SIs) which were performed beyond their frequency as required by Limiting Condition for Operations (LCO) 4.3.3.9, 4.11.1.1.1, and 4.11.1.2.

Event Number One

On August 26, 1986, at 1000 CDT with units 1 and 2 in mode 5 (145 psi, 119 degrees F and 53 psi, 128 degrees F, respectively), it was discovered SI-244, "Periodic Functional Tests of Radioactive Effluent Monitoring Instruments (Quarterly)," was not performed on July 25, 1986, as scheduled, and the maximum 25 percent extension allowed by TS 4.0.2 of August 20, 1986, was missed. The SI was completed on August 27, 1986. SI-244 is the quarterly functional test for numerous radioactive effluent monitoring instruments for both units. The instrument craft supervisor failed to forward this SI package to the instrument craft for performance. This error resulted in the technical specification (TS) 25 percent maximum extension being surpassed and the SI being performed late. Once the SI was performed, two instruments (O-FI-77-230 and O-LT-27-225) were discovered to be out of specification. LCO 3.3.3.9 was entered and complied with until the components could be returned to service a day later.

Event Number Two

On August 29, 1986, at 1500 CDT with units 1 and 2 in mode 5 (325 psi, 127 degrees F and 240 psi, 125 degrees F, respectively), it was determined that three SIs had not been performed within their allowable time limits. SI-403, "Monthly Radiochemical Analysis," SI-409, "Quarterly Radiochemical Analysis," SI-422.1, "Monthly 10 CFR 50 Appendix I Dose Calculations - Liquid Effluents," were not executed on June 30, July 2, and August 4, 1986, respectively, as originally scheduled. The SIs were actually performed on August 19, August 29, and August 29, 1986, respectively. These dates were beyond the allowable NRC extension dates. SI-403 was performed late due to unusually dirty samples. This produced problems with the Gas Proportional Counter giving high gross alpha readings. Another sample was run later, and the gross alpha counts met lower limit of detection (LLD) requirements. SI-409 originally had problems meeting its LLD requirements because of inadequate analysis volumes. While reanalyzing the samples with the proper volume, the Liquid Scintillation Counter (LS-100C) had to be taken out of service due to a decrease in efficiency beyond that of the vendor's recommended operating procedures. Once the LS-100C was repaired and brought back into specification, the Sr-89 analysis met its LLD. SI-422.1 uses the results of SI-409 to complete its calculations. Thus, it also was not completed until August 29, 1986.

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

SI-403 documents the monthly P-32, tritium, gross alpha, and dissolved and entrained gases LLD in the batch and continuous liquid waste stream. SI-409 documents the quarterly Fe-55 (liquid only) and Sr-89 and -90 in the gaseous and liquid radioactive waste stream. SI-422.1 documents the monthly dose calculations of radioactive material in liquid discharges from Sequoyah Nuclear Plant. All three SIs affect surveillance requirements for both units.

CAUSE OF EVENTS

Event Number One

Failure to perform SI-244 was caused by a personnel error. The instrument craft supervisor failed to give the craft the instruction before the maximum NRC extension date had passed.

Event Number Two

SIs-403 and -409 were performed late due to sample problems. SI-403 used an extremely dirty sample, and the analysis had to be reanalyzed before it could be completed. SI-409 originally used an inadequate analysis volume. The analyst was inexperienced and used a sample size three times smaller than normally used in this analysis. Then upon reanalysis with an adequate volume, the Liquid Scintillation Counter (LS-100C) was removed from service due to a decrease in efficiency. This prolonged the time needed to complete the SI. SI-422.1 was completed beyond its NRC due date, because the LS-100C was removed from service. This prevented the completion of SI-409, which is needed to perform the calculations associated with SI-422.1.

ANALYSIS OF EVENTS

These events are considered operations prohibited by TSs and are reportable in accordance with 10 CFR 50.73, paragraph a.2.i. A review of surveillance history files has shown that none of the subject SIs have been executed late before these events. During the performance of SI-244, two instruments were found not to meet SRs. O-FI-77-230 was found out of instrument tolerance. O-LT-27-225 was found with its output saturated high. LCO 3.3.3.9 was entered and complied with until the instruments were both returned to service a day later. SIs-403 and -409 were performed late, because in each case, one sample did not meet its LLD. In other words, the entire SI was not late, just one part of each package. All three of the SIs, when performed correctly, met their surveillance requirements. Thus, no adverse safety consequences resulted from these events. The severity of safety consequences would have been unchanged by the plant's operating status.

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

CORRECTIVE ACTIONS

Event Number One

The SI-244 was performed immediately after it was discovered to be late. Two instruments (O-FI-77-230 and O-LT-27-225) were found to not meet their surveillance requirements. O-FI-77-230 was found out of instrument tolerance by 2.5 percent. The acceptable limit is 2.0 percent. The flow indicator was recalibrated and returned to service. O-LT-27-225 was found with its output saturated high. The amplifier board on the transmitter was discovered to be defective. The device was repaired, recalibrated, and returned to service. In order to prevent SIs from being run late, the instrument craft supervisor reviews every SI for mode applicability and now also reviews the delinquent SI list from maintenance scheduling.

Event Number Two

The analyst was counseled and instructed in the proper techniques used in running this analysis. Upon discovery that the LS-100C was out of specification, the device was examined by the vendor service representative. Dirt and lint were removed, and the reflective chamber was replaced in the LS-100C. Adjusting the Gas Proportional Counter for gross alpha sample volumes and count times to meet LLD requirements should also assist in preventing this problem in the future. The subject SIs, once performed correctly, were all found to meet their SRs.

ADDITIONAL INFORMATION

Previous reports of items not performed as required by TSs due to missed frequencies - Four - SQRO-50-327/86007, 86013, 86020, and 86034.

The transmitter LT-27-225 is manufactured by Foxboro, Model E13DM.

The Gas Proportional Counter is manufactured by Nuclear Measurements Company, Model NMC-PCC-11T.

The Liquid Scintillation Counter is manufactured by Beckman Instruments, Model LS-100C.

TENNESSEE VALLEY AUTHORITY

Sequoyah Nuclear Plant
Post Office Box 2000
Soddy-Daisy, Tennessee 37379

September 25, 1986

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

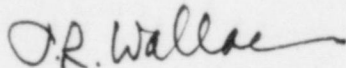
Gentlemen:

TENNESSEE VALLEY AUTHORITY - SEQUOYAH NUCLEAR PLANT UNIT 1 - DOCKET NO.
50-327 - FACILITY OPERATING LICENSE DPR-77 - REPORTABLE OCCURRENCE REPORT
SQRO-50-327/86037

The enclosed licensee event report provides details concerning four occurrences of surveillance instructions being performed past the required due dates. This event is reported in accordance with 10 CFR 50.73, paragraph a.2.i.

Very truly yours,

TENNESSEE VALLEY AUTHORITY



P. R. Wallace
Plant Manager

Enclosure
cc (Enclosure):

J. Nelson Grace, Regional Administrator
U.S. Nuclear Regulatory Commission
Suite 2900
101 Marietta Street, NW
Atlanta, Georgia 30323

Records Center
Institute of Nuclear Power Operations
Suite 1500
1100 Circle 75 Parkway
Atlanta, Georgia 30339

NRC Inspector, Sequoyah Nuclear Plant

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