Tennessee Valley Authority, Post Office Box 2000, Soddy-Daisy, Tennessee 37379-2000

R.J. Adney Site Vice President Sequoyah Austear Plant

January 2, 1997

U.S. Nuclear Regulatory Commission ATTN: Document Control Desk Washington, D.C. 20555

Gentlemen:

TENNESSEE VALLEY AUTHORITY - SEQUOYAH NUCLEAR PLANT (SQN) UNIT 1 - DOCKET NO. 50-327 - FACILITY OPERATING LICENSE NO. DPR-77 -LICENSEE EVENT REPORT (LER) 50-327/96012

The enclosed report provides details concerning two events where the surveillance requirements were not performed as required by technical specifications. This event is being reported in accordance with 10 CFR 50.73(a)(2)(i) as a condition prohibited by technical specifications.

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Sincerely,

R. J. Adney

Enclosure cc: See page 2



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U.S. Nuclear Regulatory Commission Page 2 January 2, 1997

Enclosure cc (Enclosure):

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NRC FORM 366AU.3. NUCLEAR REGULATORY COMMISSION (4-95)

LICENSEE EVENT REPORT (LER)

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

I. PLANT CONDITIONS

Unit 1 was in Mode 1 at approximately 100 percent power.

II. DESCRIPTION OF EVENT

A. Event:

On December 3, 1996, at approximately 1128 Eastern Standard time (EST), with Unit 1 in Mode 1 at approximately 100 percent reactor power it was discovered that the two cold leg accumulator sample isolation valves 1-FSV-43-34 and 1-FSV-43-35 (EIIS Code V) were inoperable due to the lack of performance of the required valve stroke time surveillance. These valves had been tagged out and power was removed with the valves in the closed position to support a modification to the sampling system. When it came time to perform the guarterly valve stroke surveillance, the tags were not removed and the valves were not tested. The valves were operable at the time they were tagged but later became inoperable when the surveillance test was not performed. While the valves were inoperable the appropriate Limiting Condition for Operation (LCO) was not entered. However, the valves were in the closed pusition with power removed which was the position required by the action statement. Controls were not established to prevent the valves from being opened without performing the delinquent surveillance. When the time came to take the monthly cold leg accumulator boron sample, power was restored to the valves and the valves were opened to allow the sample to be taken. Over a period of 8 months the valves had been opened nine times in order to take required samples. Following discovery of the missed surveillance, both valves had their stroke time test performed. 1-FSV-43-35 successfully completed the stroke time test. 1-FSV-43-34 successfully completed the stroke time test after a limit switch was replaced to correct a problem with the indicating light for the closed position. This maintenance did not affect the stroke time of the valve.

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On December 4, 1996, during the investigation of this event, a second event was discovered where the surveillance requirements were not fulfilled for eighteen valves (EIIS Code V) on Unit 1. A data sheet was missing from a test package for the February 26, 1996 performance and was not discovered until the investigation of December 4, 1996.

B. Inoperable Structures, Components, or Systems that Contributed to the Event:

None.

C. Dates and Approximate Times of Major Occurrences:

February 26, 1996	The 1-SI-SXV-000-201.0 package which should have included the necessary data sheet for the eighteen valves was begun. This package also contained data sheets for other valves. The eighteen valves are on a single data sheet.
February 28, 1996	The package was signed off as complete and routed to the Section XI engineer for review of stroke times.
March 21, 1996	Valves 1-FSV-43-34 and 1-FSV-43-35 are added to a hold order in support of a modification. The valves are in the closed position with power removed.
March 28, 1996	A portion of the modification work is completed which would allow these two valves (1-FSV-43-34 and 1-FSV-43-35) to be removed from the hold order. Operations personnel decide to continue to control the valves under the hold order.

March 29, 1996 Temporary lift of hold order (1-HO-96-586) to allow sampling of cold leg accumulators.

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March 30, 1996	which to be p the Fe	1-FSV-43-35 exceeded the timeframe the quarterly stroke time test was requ performed. The time was exceeded be bruary 26, 1996 performance was not ete performance due to the missing dat	uired cause a	
April 22, 1996		erary lift of hold order (1-HO-96-586) t sampling of cold leg accumulators.	0	
May 20, 1996		erary lift of hold order (1-HO-96-586) t sampling of cold leg accumulators.	0	
May 21, 1996	on the perform their s (1-FSV	g is completed for 16 of the 18 valves data sheet that was missing from an e- mance. These 16 valves successfully troke time test. The other two valves (-43-34 and 1-FSV-43-35) were not te se they were tagged out on a hold orde	earlier passed sted	
May 24, 1996	and a becaus incorre LCO w indicat	-43-34 and 1-FSV-43-35 were not struct deficiency was logged in the test pack se the test was not performed. (This is ect use of the test deficiency program.) vas entered. The test package notation ed that no LCO was entered because to were in their post accident required ion.	age s an) No n	
June 21, 1996		prary lift of hold order (1-HO-96-586) t sampling of cold leg accumulators.	0	
July 15, 1996		prary lift of hold order (1-HO-96-586) t sampling of cold leg accumulators.	0	
August 12, 199		orary lift of hold order (1-HO-96-586) t sampling of cold leg accumulators.	0	

NRC FORM 366A (4-95)

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August 16,	1996	as req they v	-43-34 and 1-FSV-43-35 were not st uired by technical specifications beca vere still tagged. The deficiency num ued to be logged in the test package.	iuse iber
September 9,	1996		prary lift of hold order (1-HO-96-586) campling of cold leg accumulators.	to
October 7,	1996		prary lift of hold order (1-HO-96-586) sampling of cold leg accumulators.	to
November 4	, 1996		orary lift of hold order (1-HO-96-586) sampling of cold leg accumulators.	to
November 13	, 1996	becau	-43-34 and 1-FSV-43-35 were not st se they were still tagged. The deficie er continued to be logged in the test p	ency
December 3	, 1996	supporecognitest. and 1- stroke 1-FSV test. closed limit stretest.	junction with a request to open the v rt sampling activities, operations pers nized the need to perform the stroke to The clearance was released on 1-FSV FSV-43-35 to support performance of time test package for these valves. -43-35 successfully passed the strok Valve 1-FSV-43-34 indicator light for pos tion did not operate properly. V witch was replaced and the valve wa ad on December 6, 1996 and success d the stroke time test.	sonnel time /-43-34 of the Valve te time the alve as
December 3	, 1996	inoper	3096PER was written on the valves I able and being used to obtain sample ut performing the required surveillanc	es,

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December 4, 1996 As part of the investigation on these two valves, earlier performances of the stroke time test were reviewed. This review identified an earlier performance of valve stroke time tests on February 26, 1996 that was missing a data sheet. The missing data sheet contained these two valves along with sixteen others for a total of eighteen. SQ963105PER was written on the missed surveillance on the 18 valves.

D. Other Systems or Secondary Functions Affected:

None.

E. Method of Discovery:

The senior reactor operator questioned valve operability on December 3, 1996 when a request was made to temporarily lift the hold order so that a sample could be taken.

During the investigation of the two system 43 valves which had not been stroke time tested, earlier performances of the stroke time test were reviewed. It was during this review that the February 26, 1996 performance was reviewed and it was discovered that the data sheet containing these two valves along with 16 others was missing.

F. Operator Actions:

For the case of the two system 43 valves, the clearance was released and the surveillances were performed. Both valves were tested and successfully completed their stroke time tests.

For the case of the missing data sheet containing the 18 valves, all 18 valves were tested and successfully passed their stroke time test.

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

G. Safety System Responses:

No safety system response occurred, nor was one required.

III. CAUSE OF THE EVENT

A. Immediate Cause:

The immediate cause for the event involving the two system 43 valves was that LCO's were not being entered when the surveillance was not successfully performed.

The immediate cause for the event involving the missed stroke time test for the 18 valves was a missing data sheet in the test package.

B. Root Cause:

The root cause for failing to perform the required surveillance on the two system 43 valves was failure to follow procedure in that the test deficiency process was used improperly. The procedural requirements for test deficiencies do not allow use of a deficiency for a valve that could not be tested because the valve was tagged. The attempt to utilize the test deficiency process allowed the valves to become inoperable due to missed surveillances. When the surveillances were missed the appropriate technical specification action statements required for continued plant operation were not entered.

The root cause for the event involving the missing data sheet was the failure of Operations personnel to identify that the package was not complete as required by plant procedures. A contributing factor was inattention to detail on the part of the Section XI engineer and the Operations SI coordinator in that they also failed to identify that the surveillance was not a complete performance.

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IV. ANALYSIS OF THE EVENT

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In both cases described in this report, there was a period of time when the valves in question were not being stroke time tested as required. However, in both cases the valves were tested both before and after that period of time and successfully completed their stroke time tests. Although one valve (1-FSV-43-34) required the replacement of a limit switch prior to successfully completing the test, that maintenance dic not affect the ability of the valve to close, nor did it affect the time required to close. The valves could have performed their intended functions during the time period in question. Therefore, there were no adverse consequences to the health and safety of plant personnel or the general public as a result of this event.

V. CORRECTIVE ACTIONS

A. Immediate Corrective Actions:

1-FSV-43-34 and 1-FSV-43-35 were tested in accordance with the required surveillance instructions. The surveillance test was successfully completed on 1-FSV-43-35. The surveillance test was also successfully completed on 1-FSV-43-34 following maintenance to replace the limit switch.

Open test deficiencies were reviewed and no other inappropriate uses of the test deficiency program were identified.

Appropriate licensed personnel were instructed that the deficiency process is not to be used for components which are not tested and management expectations were communicated for ensuring that test packages are complete.

Open hold orders on technical specification/safety related equipment were reviewed to ensure that a similar problem does not exist. This review did not identify any other instances where technical specification/safety related equipment was tagged under a hold order and as a result the surveillance was missed.

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Disciplinary actions have been taken with the appropriate personnel.

B. Corrective Actions to Prevent Recurrence:

Conduct of testing retraining will be provided to the appropriate personnel on or before April 4, 1997.

VI. ADDITIONAL INFORMATION

A. Additional Actions

Benchmarking of the surveillance program is planned to identify potential process improvements.

B. Failed Components:

None.

C. Previous LERs on Similar Events:

A review of previous LERs revealed several instances where the surveillance time interval had been exceeded. None of these were attributed to misuse of the test deficiency process. Two instances were identified that involved missing data sheets (LER 50-327/90007 and 50-327/87068). In the case of LER 50-327/90007 the problem occurred because of the 'B' train did not get scheduled. The corrective action was to begin scheduling separate trains independently. In the second LER the corrective action was to change a procedure to provide requirements for verification of completed instructions. The event described by this report would not have been prevented by these corrective actions.

VII. COMMITMENTS

Conduct of testing retraining will be provided to the appropriate personnel on or before April 4, 1997.