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NAC Form 386 (9-83) LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

U.S. NUCLEAR REGULATORY COMMISSION APPROVED OMB NO. 3150-0104

EXPIRES: 8/31/88

FACILITY NAME (1)	DOCKET NUMBER (2)		LER NUMBER (6'	PAGE (3)		
		YEAR	SEQUENTIAL REVISION NUMBER NUMBER			
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DESCRIPTION OF EVENT

NRC Form 366A

On August 15, 1987, with units 1 and 2 in mode 5 (O percent power, 3 psig, 131 degrees F and O percent power, atmospheric pressure,)30 degrees F, respectively), a control room isolation occurred from the train A chlorine monitor while setting up to perform a functional test for Special Test Instruction (STI)-30, "DC High Voltage Test for Selected 1E Cable with Potential for Cable Pullby Damage for Conduit MC 1697A." To perform the test, the door to local junction box O-L-450 was opened at which time a chlorine detection signal inadvertently alarmed in the main control room, and a control room isolation was automatically initiated. This junction box is the control room chlorine detector panel.

After verification that the signal was spurious, the control room isolation was subsequently cleared by the assistant shift engineer by pushing the reset button on the chlorine detector, and the control room ventilation system was returned to normal.

ANALYSIS OF EVENT

This event is being reported under 10 CFR 50.73, paragraph a.2.iv, as an automatic engineered safety feature actuation.

This event caused an inadvertent chlorine detector control room isolation. The control room emergency ventilation system (CREVS) started and isolations occurred. However, the CREVS was inoperable at this time as previously reported in LER SQR0-50-327/87039. This event was not caused by an actual chlorine release; thus, there was no threat to control room operators.

A request to delete the chlorine analyzers from technical specifications was transmitted to NRC on January 21, 1987, based on analysis which indicates that the detectors provide no significant margin of safety. Informal conversations with NRC have concluded the technical specification change will be approved. The safety evaluation report for the technical specification change has been written and approved by NRC.

CAUSE OF EVENT

The cause of this event is indeterminate. An attempt was made to reproduce the control room isolation by simulation of conditions and events before the isolation and additional troubleshooting. However, a recurrence of the event could not be initiated.

NRC Form 236A (9-83)	SEE EVENT REPORT (LER) TEXT CONTIN	UATION	U.S. NUCLEAR REGULATORY COMMISSION APPROVED OMB NO. 3150-0104 EXPIRES: 8/31/86						
PACILITY NAME (1)	DOCKET NUMBER (2)	LER NU	JMBER (6)	PAGE (3)					
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CORRECTIVE ACTION

Immediately after the control room isolation, the assistant shift engineer cleared the isolation by verifying the signal was spurious, pressing the reset button on the chlorine detector, and returning the ventilation system to normal. No corrective action is planned as specific failures or noncompliances have not been identified.

ADDITIONAL INFORMATION

There have been five previous LERs written on inadvertent control room isolations - SQR0-50-327/84050, 84062, 85033, 86021, and 87032.

0659Q

TENNESSEE VALLEY AUTHORITY

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

September 15, 1987

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 SQR0-50-327/87057

The enclosed licensee event report provides details concerning a control room isolation that was inadvertently initiated due to an indeterminate cause during performance of a special test instruction. This event is reported in accordance with 10 CFR 50.73, paragraph a.2.iv.

Very truly yours,

TENNESSEE VALLEY AUTHORITY

M Molles

L. M. Nobles 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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