

## LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) Sequoyah, Unit 1										DOCKET NUMBER (2) 0 5 0 0 0 3 2 7 1				PAGE (3) 1 OF 0 2		
TITLE (4) Containment Building Ventilation Isolation																
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)			
0 4	2 0	8 4	8 4	0 2 7	0 0 0	5 1	8 8	4					0 5 0 0 0			
OPERATING MODE (9)		THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR 5: (Check one or more of the following) (11)														
5		20.402(b)				20.406(c)				<input checked="" type="checkbox"/> 50.73(a)(2)(iv)				73.71(b)		
POWER LEVEL (10)		20.406(a)(1)(i)				50.36(c)(1)				50.73(a)(2)(v)				73.71(c)		
0 0 0		20.406(a)(1)(ii)				50.36(c)(2)				50.73(a)(2)(vii)				OTHER (Specify in Abstract below and in Text, NRC Form 366A)		
		20.406(a)(1)(iii)				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)																
NAME Glenn Duggin, Compliance Section Engineer										TELEPHONE NUMBER 6 1 5 8 7 0 - 6 1 4 6						
COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)																
CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NRC		CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NRC						
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)																

A high radiation alarm was actuated which caused a containment ventilation isolation (CVI) to occur. Investigation revealed that a voltage spike occurred as a result of electromagnetic interference (EMI) which was generated by slippage of the filter paper in two incidents and stray signals in another incident. Radiation levels were not above normal during this time.

The inadvertent high radiation alarm was reset and the monitor was returned to service. A time delay is being added to the actuation signal to allow time for spikes to decay.

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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)	DOCKET NUMBER (2)	LER NUMBER (6)			PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
Sequoyah, Unit 1	0 5 0 0 0 3 2 7 8 4	—	0 2 7	—	0 0	0 2 OF	0 2

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

This LER involves three separate incidents. The first containment ventilation isolation (CVI) occurred at 1642C on 04/20/84 while unit 1 was in mode 5 (0% power, 0 psig, 146 degrees F) and was returned to service at 1657C on 04/20/84. The second CVI occurred at 1055C on 04/25/84 and the third CVI occurred at 1116C on 04/25/84 while unit 1 was in mode 5 (0% power, 0 psig, 130 degrees F) and was returned to service at 1106C and 1125C on 04/25/84 respectively. All associated equipment and personnel responded and performed as expected during the CVI. The operator responded to the alarm (RM-90-112, -131) and determined that the alarms were in fact caused by inadvertent spikes and not by a high radiation level. Maintenance personnel were notified to check the monitor, reset the alarm in the control room, and repair or reset the monitor.

In the first incident, an EMI spike from an undetermined source caused the actuation of the high radiation alarm and a CVI. No recorder is associated with this monitor, but the shield building monitor indicated a radiation level well below the monitor setpoint at the time of the CVI. No failure was found associated with the monitor, and it was reset.

In the second and third incidents, EMI spikes from flow switch actuation due to jammed filter paper caused the actuation of the high radiation alarm and a CVI. The filter paper was realigned, the alarms were reset, and the monitor was returned to service.

Recent corrective actions show a substantial reduction in CVIs due to spurious spikes. These reductions can be attributed to the monitor setpoint being raised, flow switches mounted on rubber mounts, revised instructions, better communications between personnel, and other EMI protection. Long-term actions in process at this time include: (1) NCO will determine if a flow switch with sufficient deadband to reduce chattering at low flow is available and will initiate paperwork to change them out; (2) A time delay is being added to the actuation signal to allow time for spike decay; (3) NCO will evaluate and specify a filter for the AC cables to the monitors; (4) Engineering Design will begin preliminary work on changing the flow alarm circuit from AC to DC power; and (5) NCO will evaluate the need to interlock CVI with purge air and vent dampers to inhibit CVI when dampers are closed. Some or all of these actions will be implemented as appropriate.

There was no effect upon public health or safety, and no plant safety margins were exceeded. Radiation levels were not above normal during this time.

Previous occurrences - SQRO-50-327/84001, SQRO-50-327/84003, SQRO-50-327/84012, SQRO-50-327/84014, SQRO-50-327/84020, SQRO-50-327/84022.

TENNESSEE VALLEY AUTHORITY

Sequoyah Nuclear Plant  
Post Office Box 2000  
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May 18, 1984

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

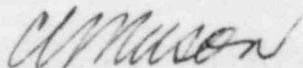
Gentlemen:

TENNESSEE VALLEY AUTHORITY - SEQUOYAH NUCLEAR PLANT UNIT 1 - DOCKET NO.  
50-327 - FACILITY OPERATING LICENSE DPR-77 - REPORTABLE OCCURRENCE REPORT  
SQRO-50-327/84027

The enclosed licensee event report provides details concerning the containment ventilation isolations caused by inadvertent spikes on the radiation monitor. This event is reported in accordance with 10 CFR 50.73, paragraph a.2.iv.

Very truly yours,

TENNESSEE VALLEY AUTHORITY



C. C. Mason  
Power Plant Superintendent

Enclosure  
cc (Enclosure):

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NRC Inspector, NUC PR, Sequoyah

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