

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) Sequoyah, Unit 1	DOCKET NUMBER (2) 0 5 0 0 0 3 2 7	PAGE (3) 1 OF 0 2
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TITLE (4)
Inoperability of Control Room Emergency Ventilation System

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 8	1 7	8 4	8 4	0 5 2	0 0 0	9 1	4 8	4	Sequoyah, Unit 2		0 5 0 0 0 3 2 8
THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check one or more of the following) (11)											

OPERATING MODE (9) 1	POWER LEVEL (10) 1 1 0 1 0	20.402(b)	20.406(a)(1)(i)	20.406(a)(1)(ii)	20.406(a)(1)(iii)	20.406(a)(1)(iv)	20.406(a)(1)(v)	20.408(c)	50.36(e)(1)	50.36(e)(2)	50.73(a)(2)(i)	50.73(a)(2)(ii)	50.73(a)(2)(iii)	50.73(a)(2)(iii)	50.73(a)(2)(iv)	50.73(a)(2)(v)	50.73(a)(2)(vii)	50.73(a)(2)(viii)(A)	50.73(a)(2)(viii)(B)	50.73(a)(2)(ix)	73.71(b)	73.71(c)	OTHER (Specify in Abstract below and in Text, NRC Form 366A)

LICENSEE CONTACT FOR THIS LER (12)

NAME Glenn B. Kirk, Compliance Engineer	TELEPHONE NUMBER 6 1 5 8 7 0 - 6 1 4 6
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COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)

CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPROS	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPROS

SUPPLEMENTAL REPORT EXPECTED (14)

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

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

During a review of test data for SI-144.2, "Control Room Emergency Ventilation System Test", it was discovered that an incorrect calculation of duct area resulted in both trains of the control room emergency ventilation system being left with lower than acceptable flow rates for approximately 3 hours on August 17, 1984.

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

FACILITY NAME (1) Sequoyah, Unit 1	DOCKET NUMBER (2) 0 5 0 0 0 3 2 7 8 4	LER NUMBER (6)			PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
		84	052	00	02	OF	02

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

SI-144.2, "Control Room Emergency Ventilation System Test", was completed on both trains of the control room emergency ventilation system at 0100C on 08/17/84. Field calculations performed during the testing indicated both trains had passed the flow rate acceptance criteria of 4000 CFM \pm 10%. Subsequent engineering review of the test data discovered that the field calculation of the duct area was in error. The duct area was incorrectly calculated in the field to be 3.67 ft.² when the actual area was 3.33 ft.². Recalculation of the flow rates using the correct duct area determined that the flow rates had actually been lower than acceptable. The recalculated flow rates were 3580 CFM for train 'A' and 3290 CFM for train 'B'. Both trains of the control room emergency ventilation system were declared inoperable at 0300C on 08/17/84 requiring entry into LCO 3.0.3.

The control damper was adjusted to obtain an acceptable flow rate for train 'A'. Then train 'B' was checked and the flow rate found acceptable without further adjustment of the common damper. Both trains were declared operable at 0430C on 08/17/84.

Investigation of this event determined that the proper duct size was used during the previous performance of the 18-month surveillance requirement, but it also was discovered that the Technical Instruction TI-50, "Air Flow Measurement Methods", used during the test contained an incorrect duct area. This incorrect duct size in TI-50 had not been used in either the present calculation or previous calculation of flow rates.

The cause of the event is attributed to a personnel error by engineering test personnel incorrectly calculating the duct area.

The following long term corrective actions have been taken:

- a. All computations for SI-144.2 will be performed by two independent persons.
- b. The control room emergency ventilation system common control damper will be marked to ensure that it is not moved between surveillance tests.
- c. TI-50 has been revised to indicate the proper duct area.

Both unit 1 and unit 2 were in mode 1 (2235 psig, 578⁰ F) at 100% reactor power at the time of the event. There was no effect on public health or safety. For 1984, there have been no previous occurrences.

TENNESSEE VALLEY AUTHORITY

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

September 14, 1984

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

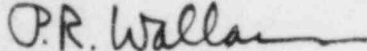
Gentlemen:

TENNESSEE VALLEY AUTHORITY - SEQUOYAH NUCLEAR PLANT UNIT 1 - DOCKET NO.
50-327 - FACILITY OPERATING LICENSE DPR-77 - REPORTABLE OCCURRENCE REPORT
SQRO-50-327/84052

The enclosed licensee event report provides details concerning both trains of the control room emergency ventilation system being inoperable. This event is reported in accordance with 10 CFR 50.73, paragraph a.2.i, a.2.v, and a.2.vii.

Very truly yours,

TENNESSEE VALLEY AUTHORITY



P. R. Wallace
Plant Manager

Enclosure
cc (Enclosure):

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NRC Inspector, NUC PR, Sequoyah

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