

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
---------------------------------------	--------------------------------------	----------------------

TITLE (4)
Reactor Trip

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 6	1 8	8 4	8 4	0 3	6 0	0 7	1 6	8 4			0 5 0 0 0

THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR 8: (Check one or more of the following) (11)

OPERATING MODE (9) 1	20.402(b)	20.405(c)	<input checked="" type="checkbox"/>	50.73(a)(2)(iv)	73.71(b)
POWER LEVEL (10) 1 0 0	20.405(a)(1)(i)	50.38(c)(1)		50.73(a)(2)(v)	73.71(e)
	20.405(a)(1)(ii)	50.38(c)(2)		50.73(a)(2)(vii)	OTHER (Specify in Abstract below and in Text, NRC Form 366A)
	20.405(a)(1)(iii)	50.73(a)(2)(i)		50.73(a)(2)(viii)(A)	
	20.405(a)(1)(iv)	50.73(a)(2)(ii)		50.73(a)(2)(viii)(B)	
	20.405(a)(1)(v)	50.73(a)(2)(iii)		50.73(a)(2)(x)	

LICENSEE CONTACT FOR THIS LER (12)

NAME Glenn Duggin, Compliance Section Engineer	TELEPHONE NUMBER AREA CODE: 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 NPRDS	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPRDS

SUPPLEMENTAL REPORT EXPECTED (14)

YES (If yes, complete EXPECTED SUBMISSION DATE) NO

EXPECTED SUBMISSION DATE (15)	MONTH	DAY	YEAR

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

At 2115C on 06/18/84, unit 1 experienced a reactor trip. Unit 1 was in mode 1 (2235 psig, 578 degrees F) at 100% reactor power just prior to the event. A turbine trip occurred due to a gasket slipping and shorting the generator bus to ground. The electrical trouble alarm caused the turbine to trip and the P-9 interlock caused the reactor to trip. Unit 1 stabilized at 547 degrees F following the reactor trip.

8407240370 840716
PDR ADOCK 05000327
S PDR

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

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

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

On 06/18/84 at 2115C, a neoprene gasket slipped and one end fell, grounding the bus conductor to the enclosure in 'B' phase main transformer doghouse. The ground was picked up by the turbine electrical failure alarm and caused the turbine to trip. Since the turbine was running at greater than 50% power, the interlock (P-9) between the generator and the reactor tripped the reactor. Unit 1 was in mode 1 (2235 psig, 578 degrees F) at 100% power just prior to the event. All associated equipment and personnel responded and performed as expected during the event. The unit stabilized at 547 degrees F after the event.

Investigation to determine the cause of the ground had at first centered around the insulators on the potential transformer because they were covered with oil. However, the dirty insulators were not the problem. Disconnecting the generator and transformers from the bus and extensive use of megger testing was required to find the slipped gasket. The gasket fit between the isolated phase bus housing and the transformer doghouse. One end had worked loose and dropped down onto the bus conductor grounding it to the enclosure. No adhesive had been used to assist in holding the gasket in place. The oil on the insulators apparently came from the generator during the last outage.

Everything was cleaned, reconnected, tested, and returned to service. All similar type gaskets were checked and reworked or replaced as necessary. RTV was then applied to hold them in place.

There was no effect on public health or safety, and no safety margins were exceeded. This was the second reactor trip by interlock from the turbine for 1984. This has been the first equipment failure of this type in the plant.

TENNESSEE VALLEY AUTHORITY

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

July 16, 1984

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

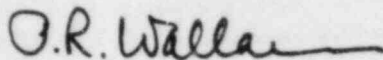
Gentlemen:

TENNESSEE VALLEY AUTHORITY - SEQUOYAH NUCLEAR PLANT UNIT 1 - DOCKET NO.
50-327 - FACILITY OPERATING LICENSE DPR-77 - REPORTABLE OCCURRENCE REPORT
SQRO-50-327/84036

The enclosed licensee event report provides details concerning a turbine/
reactor trip from 100% power. This event is reported in accordance with
10 CFR 50.73, paragraph a.2.iv.

Very truly yours,

TENNESSEE VALLEY AUTHORITY



P. R. Wallace
Plant Manager

Enclosure
cc (Enclosure):

James P. O'Reilly, Director
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, NUC PR, Sequoyah

TE22
1/1