

## LICENSEE EVENT REPORT (LER)

FACILITY NAME (1)  
Browns Ferry Nuclear Plant - Unit 1

DOCKET NUMBER (2)

0 5 0 0 0 2 5 9

PAGE (3)

1 OF 0 1 2

TITLE (4)

Reactor Scram From Turbine Generator 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	0	2	8	4	8	4	0	2	4	0	0	0	6	2	2	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)											
POWER LEVEL (10)	1	0	0	20.402(b)	20.406(e)	<input checked="" type="checkbox"/>	50.73(a)(2)(iv)	73.71(b)					
				20.406(a)(1)(i)	50.36(e)(1)	<input type="checkbox"/>	50.73(a)(2)(v)	73.71(c)					
				20.406(a)(1)(ii)	50.36(e)(2)	<input type="checkbox"/>	50.73(a)(2)(vi)	OTHER (Specify in Abstract below and in Text, NRC Form 366A)					
				20.406(a)(1)(iii)	50.73(a)(2)(i)	<input type="checkbox"/>	50.73(a)(2)(vii)(A)						
				20.406(a)(1)(iv)	50.73(a)(2)(ii)	<input type="checkbox"/>	50.73(a)(2)(vii)(B)						
				20.406(a)(1)(v)	50.73(a)(2)(iii)	<input type="checkbox"/>	50.73(a)(2)(x)						

LICENSEE CONTACT FOR THIS LER (12)

NAME	TELEPHONE NUMBER
David L. Smith	AREA CODE 2 1 0 5 7 1 2 9 1 - 1 0 1 8 1 6 5

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)

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

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

Increase in conductance of the stator cooling water Teflon insulating connector tubing caused a turbine generator trip. This, in turn, caused a reactor scram with all engineered safety systems performing as designed.

An investigation gave a probable cause of interior superficial deposit of iron and copper onto the Teflon lining of the connector tubing. Inline system filters are rated for 30 microns and were replaced with 10 micron filters. This, along with a thorough system flush, should remedy this type of conductance problem.

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PDR ADOCK 05000259  
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## LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

APPROVED OMB NO. 3150-0104

EXPIRES 8/31/85

FACILITY NAME (1)  Browns Ferry Nuclear Plant - Unit 1	DOCKET NUMBER (2)  0 5 0 0 0 2 5 9 8 4 - 0 2 4 - 0 0 0 2 OF 0 2	LER NUMBER (6)			PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			

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

During normal operation unit 1 was operating at 100-percent power, unit 2 at 60-percent power, and unit 3 was in a refueling outage. This event affects unit 1 only.

At 1739 hours, the unit 1 reactor scrambled due to its turbine generator (TA, TB) automatically tripping from increased conductance in the stator cooling water Teflon insulating connector tubing (TJ). (If current to ground reaches 30 milliamps the generator will automatically trip; this is to prevent possible generator rotor damage from over-current.) All engineered safety systems functioned as designed with no unusual events occurring. Inspection of the unit 1 Teflon tubes revealed an interior superficial deposit of iron and copper. This deposit is the most probable reason for the increase in conductance through the Teflon tubes.

Sample analysis indicated that the contaminant was primarily solid iron and copper particles in the 6-20 micron range. Current inline system filters (FLT) are rated at 30 microns. These filters were replaced by 10 micron filters in a current unit 1 short outage. Also, the unit 1 stator cooling water storage tank (TK) was drained and its associated piping along with the Teflon tubing (TBG) flushed.

The above actions are expected to preclude any future problems of this sort. Unit 1 had previously experienced two similar type scrams in 1982 and at the time the scram cause was unknown.

Previous Similar Events - As described above.

Responsible Plant Section - N/A

TENNESSEE VALLEY AUTHORITY

Browns Ferry Nuclear Plant  
P. O. Box 2000  
Decatur, Alabama 35602

June 22, 1984

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

Dear Sir:

TENNESSEE VALLEY AUTHORITY - BROWNS FERRY NUCLEAR PLANT UNIT 1 - DOCKET  
NO. 50-259 - FACILITY OPERATING LICENSE DPR-33 - REPORTABLE OCCURRENCE  
REPORT BFRO-50-259/84024

The enclosed report provides details concerning reactor scram from turbine-  
generator trip. This report is submitted in accordance with 10 CFR 50.73  
(a) (2) (iv).

Very truly yours,

TENNESSEE VALLEY AUTHORITY



G. T. Jones  
Power Plant Superintendent  
Browns Ferry Nuclear Plant

Enclosure

cc (Enclosure):  
Regional Administrator  
U. S. Nuclear Regulatory Commission  
Office of Inspection and Enforcement  
Region II  
101 Marietta Street, Suite 2900  
Atlanta, GA 30303

INPO Records Center  
Suite 1500  
1100 Circle 75 Parkway  
Atlanta, GA 30339

NRC Resident Inspector, BFN

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