

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) Browns Ferry - Unit 3	DOCKET NUMBER (2) 0 5 0 0 0 2 9 6	PAGE (3) 1 OF 0 2
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TITLE (4)
Setpoint Drift Of Turbine First-Stage Permissive Switches

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 5	1 5	8 5	8 5	0 1 5	0 0 0	0 6	1 1 8	5			0 5 0 0 0																							
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:15%;">OPERATING MODE (9) N</td> <td style="width:15%;">20 402(b)</td> <td style="width:15%;">20 406(c)</td> <td style="width:15%;">80 73(a)(2)(iv)</td> <td style="width:15%;">73 71(b)</td> </tr> <tr> <td rowspan="5">POWER LEVEL (10) 0 0 0</td> <td>20 405(a)(1)(iii)</td> <td>80 36(c)(1)</td> <td><input checked="" type="checkbox"/> 80 73(a)(2)(iv)</td> <td>73 71(c)</td> </tr> <tr> <td>20 405(a)(1)(ii)</td> <td>80 36(c)(2)</td> <td>80 73(a)(2)(vii)</td> <td rowspan="4">OTHER (Specify in Abstract below and in Text, NRC Form 365A)</td> </tr> <tr> <td>20 405(a)(1)(iii)</td> <td>80 73(a)(2)(ii)</td> <td>80 73(a)(2)(viii)(A)</td> </tr> <tr> <td>20 405(a)(1)(iv)</td> <td>80 73(a)(2)(ii)</td> <td>80 73(a)(2)(viii)(B)</td> </tr> <tr> <td>20 405(a)(1)(iv)</td> <td>80 73(a)(2)(iii)</td> <td>80 73(a)(2)(ix)</td> </tr> </table>												OPERATING MODE (9) N	20 402(b)	20 406(c)	80 73(a)(2)(iv)	73 71(b)	POWER LEVEL (10) 0 0 0	20 405(a)(1)(iii)	80 36(c)(1)	<input checked="" type="checkbox"/> 80 73(a)(2)(iv)	73 71(c)	20 405(a)(1)(ii)	80 36(c)(2)	80 73(a)(2)(vii)	OTHER (Specify in Abstract below and in Text, NRC Form 365A)	20 405(a)(1)(iii)	80 73(a)(2)(ii)	80 73(a)(2)(viii)(A)	20 405(a)(1)(iv)	80 73(a)(2)(ii)	80 73(a)(2)(viii)(B)	20 405(a)(1)(iv)	80 73(a)(2)(iii)	80 73(a)(2)(ix)
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	20 405(a)(1)(iv)	80 73(a)(2)(ii)	80 73(a)(2)(viii)(B)																															
	20 405(a)(1)(iv)	80 73(a)(2)(iii)	80 73(a)(2)(ix)																															

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

LICENSEE CONTACT FOR THIS LER (12)

NAME Stephen B. Jones	TELEPHONE NUMBER 2 1 0 1 5 7 1 2 1 9 1 - 1 2 5 1 3 1 8
AREA CODE	

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

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

On March 15, 1985, during performance of Surveillance Instruction 4.1.A.14, Turbine First-Stage Pressure Permissive Functional Test and/or Calibration, all four turbine first-stage pressure permissive switches (PS-1-81A, PS-1-81B, PS-1-91A, and PS-1-91B) were found to be out of calibration. The switches were inspected, recalibrated, and functionally tested. The cause of the event can be attributed to instrument drift. There was no affect on the health and or safety of the public.

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

FACILITY NAME (1) Browns Ferry - Unit 3	DOCKET NUMBER (2) 0 5 0 0 0 2 9 6	LER NUMBER (6)			PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
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TEXT (If more space is required, use additional NRC Form 366A's) (17)

Unit 1 and unit 2 were in refueling outages. Unit 3 was in a maintenance outage. Only unit 3 was affected by the event.

On March 15, 1985, during quarterly performance of Surveillance Instruction (SI) 4.1.A.14, Turbine First-Stage Pressure Permissive Functional Test and/or Calibration, PS-1-81A, PS-1-81B, PS-1-91A, and PS-1-91B (turbine first-stage pressure permissive switches) were found to have setpoints of 171.5 pounds per square inch gauge (psig), 168.5 psig, 170 psig, and 171 psig respectively. The required setpoint is 154 psig. The switches were inspected, recalibrated, and functionally tested per SI 4.1.A.14.

The cause of this event can be attributed to instrument drift caused by seasonal differences. In order to minimize this problem in the future, these switches will be replaced with a Rosemount Analog Trip System during the next refueling outage.

The turbine first-stage pressure permissive switches bypass the scram signal from turbine stop valve closure, turbine control valve fast closure, or turbine trip when the turbine first-stage pressure is less than the setpoint. This setpoint is equivalent to 30 percent power. The setpoint drift made it possible for the reactor power to be slightly above the acceptable power level at which a turbine trip should cause a reactor scram. In the narrow pressure range between the required setpoint and the as found setpoint, the reactor was protected by pressure and flux scrams.

The setpoint drift was nonconservative and would have resulted in reactor scrams being bypassed above the technical specification limit of 154 psig turbine first-stage pressure. The health or safety of the public was not affected.

Responsible Plant Section - N/A

Previous Events - BFRO-50-259/82037; -259/81029; -259/80058; -259/79008;
-259/78016; -260/82018; -260/81023; -260/80022; -260/79016;
-296/82036; -296/83051; -296/81039; -296/81030; -296/80022;
-296/79012; -296/79007

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

June 11, 1985

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

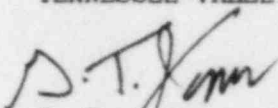
Dear Sir:

TENNESSEE VALLEY AUTHORITY - BROWNS FERRY NUCLEAR PLANT (BFN) UNIT 3 -
DOCKET NO. 50-296 - FACILITY OPERATING LICENSE DPR-68 - REPORTABLE
OCCURRENCE REPORT BFRO-50-296/85015

The enclosed report provides details concerning setpoint drift of
turbine first stage permissive switches. This report is submitted in
accordance with 10 CFR 50.73(a)(2)(v).

Very truly yours,

TENNESSEE VALLEY AUTHORITY


G. T. Jones
Plant Manager
Browns Ferry Nuclear Plant

Enclosures

cc (Enclosures):

Regional Administrator
U. S. Nuclear Regulatory Commission
Office of Inspection and Enforcement
Region II
101 Marietta Street, Suite 2900
Atlanta, Georgia 30303

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

NRC Resident Inspector, BFN

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