

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1)

Washington Nuclear Plant - Unit 2

DOCKET NUMBER (2)

0 5 0 0 0 3 9 1 7 1 OF 0 1 3

PAGE (3)

TITLE (4)

Feedwater System/Main Turbine Trip Input Logic

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 NAME	DOCKET NUMBER(S)						
0	6	1	8	5	8	5	0	4	1	0	5	0	0	0	1	1
0	6	1	8	5	8	5	0	4	1	0	5	0	0	0	1	1

OPERATING MODE (9)		THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR 50.71. Check one or more of the following (11):									
POWER LEVEL (10)	01010	20.402(a)		20.406(a)		90.73(a)(2)(ii)		73.71(b)			
		20.406(a)(1)(i)		90.30(a)(1)		90.73(a)(2)(iv)		73.71(d)			
		20.406(a)(1)(ii)		90.30(a)(2)		90.73(a)(2)(vi)		OTHER (Specify in Abstract below and in Text, NRC Form 308A)			
		20.406(a)(1)(iii)		90.73(a)(2)(i)		90.73(a)(2)(viii)(A)					
		20.406(a)(1)(iv)		90.73(a)(2)(ii)		90.73(a)(2)(viii)(B)					
		20.406(a)(1)(v)		90.73(a)(2)(iii)		90.73(a)(2)(ix)					

LICENSEE CONTACT FOR THIS LER (12)

NAME	TELEPHONE NUMBER
B. L. Koenigs, Compliance Engineer	5101 9 31 7 71-1 2 5101 1

COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13) Ext. 2279

CAUSE	SYSTEM	COMPONENT	MANUFAC. TYPEN	REPORTABLE TO NRCOS	CAUSE	SYSTEM	COMPONENT	MANUFAC. TYPEN	REPORTABLE TO NRCOS

SUPPLEMENTAL REPORT EXPECTED (14)

YES (if yes, complete EXPECTED SUBMISSION DATE)	NO	EXPECTED SUBMISSION DATE (15)	MONTH	DAY	YEAR

ABSTRACT - Limit to 400 words. (i.e., address only the single event description) (16)

During the performance of a Feedwater System/Main Turbine Trip System Actuation Instrumentation Logic System Functional Test on 6/17/85, the Channel B Logic input to the Main Turbine and Feedwater Turbine "B" did not respond. Subsequent investigation determined that the cable had not been reconnected following replacement and rerouting during the Startup Test Program (approximately 12/83) prior to receipt of the Operating License.

The cable was terminated and Logic System functional test completed satisfactorily.

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PDR ADDCK 05000397
S PDR

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

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TEXT: If more space is required, use additional NRC Form 365A's (17)

Plant Conditions

- a) Power Level - 0%
- b) Reactor Mode - 4 (Cold Shutdown)

Event

During the performance of a Feedwater System/Main Turbine Trip System Actuation Instrumentation Logic System Functional Test on 6/17/85, Channel B Logic input to the Main Turbine and Feedwater Turbine B did not respond. Investigation determined that a cable had not been reconnected following replacement and rerouting during the Startup Test Program (approximately 12/83).

The Feedwater Turbine/Main Turbine Trip Logic uses a 2 out of 3 logic trip on high Reactor Water Level as backup to the Feedwater Control System. Channels A and C inputs to the Main Turbine and Feedwater Turbines A and B were operational as was the Channel B input to Feedwater Turbine A.

Immediate Corrective Action

- o The cable was terminated and the Logic System Functional Test completed satisfactorily.

Further Corrective Action

- o Since all logic system functional tests are required to be performed on an 18 month frequency and have been completed at least once without any similar discrepancies being noted, this is considered an isolated occurrence and no further corrective action is anticipated.
- o A management review of the historical pre-operational test data will be conducted to ensure that the root cause of this event is fully understood.
- o We have reviewed the Technical Specification surveillance procedure governing monthly Channel Functional Tests (CFT's) for this circuit and found that adequate instructions were provided to assure that the CFT tested the circuitry to the extent allowed by design and that the CFT was consistent with the level of testing associated with other CFT's. The design and installation of this Level 8 trip circuitry were completed prior to the establishment of associated Technical Specification surveillance requirements, since the surveillance test requirement for this circuit was not anticipated, test provisions for the final trip function were not provided. Therefore the CFT level of testing could not be expected to detect this circuitry difficulty.

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

APPROVED OMB NO. 3150-0104

EXPIRES: 9/31/88

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TEXT (If more space is required, use additional NRC Form 3055's.)

Safety Significance

The Feedwater System/Main Turbine Trip System Actuation Instrumentation is provided to initiate the Feedwater System/Main Turbine Trip System in the event of Reactor vessel water level equal to or greater than the level 8 setpoint associated with a feedwater controller failure. The level 8 trip provides a protective feature credited with limiting the critical power ratio (CPR) effects of a Feedwater Controller Failure - Maximum Speed transient (ref. FSAR Section 15.1.2). The limiting CPR transient for the first cycle of operation at WNP-2 is a rod withdrawal error event. The FSAR Section 15.1.2 analysis for feedwater controller failure is not the limiting CPR event for WNP-2. Two of the three channels providing logic input were operable during the period covered by this event and this ensured that a trip function was provided. There was no threat to the safety of the Plant, its personnel or the public as a result of this event.

Similar Events

Not Applicable

EIIS Information

Text Reference

Main Turbine
Feedwater Turbine

EIIS Reference

System	Component
TA	TRB
SJ	TRB

Washington Public Power Supply System

P.O. Box 968 3000 George Washington Way Richland, Washington 99352 (509) 372-5000

Docket No. 50-397

July 16, 1985

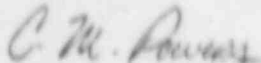
Document Control Desk
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Subject: NUCLEAR PLANT NO. 2
LICENSEE EVENT REPORT NO. 85-041

Dear Sir:

Transmitted herewith is Licensee Event Report No. 85-041 for WNP-2 Plant. This report is submitted in response to the report requirements of 10CFR50.73 and discusses the item of reportability, corrective action taken, and action taken to preclude recurrence.

Very truly yours,



C.M. Powers (M/D 927M)
WNP-2 Plant Manager

CMP:1a

Enclosure:
Licensee Event Report No. 85-041

cc: Mr. John B. Martin, NRC - Region V
Mr. A. D. Toth, NRC - Site (901A)
Ms. Dottie Sherman, ANI
INPO Records Center - Atlanta, GA

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