

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1)
Washington Nuclear Plant - Unit 2

DOCKET NUMBER (2)
0 5 0 0 0 3 9 7 1 0 7 0 1 2

PAGE (3)
1 OF 1

TITLE (4)
Reactor Scram Due to Low Reactor Water Level

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)
08	09	84	84	07	9	01	11	21	38		0 5 0 0 0
											0 5 0 0 0

OPERATING MODE (9) 1

POWER LEVEL (10) 0 1 5

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

20.402(b)	20.406(c)	<input checked="" type="checkbox"/>	50.73(a)(2)(iv)	73.71(b)
20.406(a)(1)(i)	50.36(a)(1)	<input type="checkbox"/>	50.73(a)(2)(v)	73.71(c)
20.406(a)(1)(ii)	50.36(a)(2)	<input type="checkbox"/>	50.73(a)(2)(vi)	<input checked="" type="checkbox"/> OTHER (Specify in Abstract below and in Text, NRC Form 365A)
20.406(a)(1)(iii)	50.73(a)(2)(i)	<input type="checkbox"/>	50.73(a)(2)(vii)(A)	50.72(b)(2)(ii)
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)(ix)	

LICENSEE CONTACT FOR THIS LER (12)

NAME: R. L. Koenigs, Compliance Engineer

TELEPHONE NUMBER: 510193177-12501

AREA CODE: 5101931

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

CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPDOS	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPDOS
D	E	A	N	A	N				

SUPPLEMENTAL REPORT EXPECTED (14)

YES (If yes, complete EXPECTED SUBMISSION DATE) NO

EXPECTED SUBMISSION DATE (15)

ABSTRACT (Limit to 400 spaces - 30 characters - 11 lines single-space typewritten lines) (16)

A Reactor Scram occurred automatically on low reactor water level after the reactor feed water pump tripped due to loss of control power.

Reactor water level was restored using the RCIC System. The Plant electrical lineup was restored to a normal configuration.

All safety systems functioned as designed.

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

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		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
		- 0 7 1 9	- 0 1 1 0 1 2		0 2	OF	0 1 2

TEXT (If more space is required, use additional NRC Form 388A's) (17)

Plant Condition

- a) Power Level - 15%
- b) Plant Mode - 1

Event

While preparing to roll the turbine in a normal ramp up mode the control room operator started the third large circulating water pump. At this time, the Plant was being supplied by the startup transformer (TR-S) which was heavily loaded. The large starting current for this motor (~3300 Amps) coincident with the heavily loaded condition of the startup transformer, resulted in a voltage droop on the secondary of the transformer. This voltage dropped below the setpoint for the second level (degraded) undervoltage protection. The voltage had not exceeded the reset setpoint within the eight second time delay and the second level undervoltage circuitry initiated load shedding as designed on Div. I and Div. III. The temporary loss of power to the control circuitry resulted in tripping of the RFW pump. The loss of feedwater to the reactor resulted in a drop of reactor water level to level three (+12") and the reactor scrambled as designed.

Immediate Corrective Action

Operators initiated Reactor Core Isolation Cooling (RCIC) and restored reactor water level. The Plant electrical lineup was returned to a normal configuration.

Notification was given to the NRC in accordance with the requirements of 10CFR50.72(b)(2)(ii).

Further Corrective Action

The applicable startup procedures have been modified to identify limitations to the loading of the startup transformer.

Operability of the second level undervoltage circuit (Div. II) which did not initiate its divisions load shedding sequence was verified. This lack of operation was attributed to minor variations in time delay operation.

In addition, the circulating water pump overcurrent relays were functionally tested. The relay coordination curve for these relays was also evaluated to substantiate that it was likely for the second level undervoltage circuits to initiate load shedding prior to overcurrent relay actuation.

Safety Significance

There are no safety consequences associated with this event and all Plant systems performed as required during the event.

Washington Public Power Supply System

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

Docket No. 50-397

December 13, 1984

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

Subject: NUCLEAR PLANT NO. 2
LICENSEE EVENT REPORT NO. 84-079-01

Dear Sir:

Transmitted herewith is Licensee Event Report No. 84-079-01 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.

This report clarifies information provided in Licensee Event Report 84-079.

Very truly yours,

J. D. Martin for

J. D. Martin (M/D 927M)
WNP-2 Plant Manager

JDM:mm

Enclosure:

Licensee Event Report No. 84-079-01

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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