NRC Form 366
(9-83)

U.S. NUCLEAR REGULATORY COMMISSION
APPROVED OMB NO. 3150-0104
EXPIRES: 8/31/85

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1)	DOCKET NUMBER (2)	PAGE (3)
Washington Nuclear Plant - Unit 2	0 5 0 0 0 3 9 7	1 OF 0 2

TITLE (4)
Reactor Scram on Low RPV 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)
										0 5 0 0 0
1 0	2 8	8 4	8 4	— 1 1 4	— 0 0	1 1	2 1	8 4		0 5 0 0 0

OPERATING MODE (9)	THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check one or more of the following) (11)			
1	20.402(b)	20.405(c)	X 50.73(a)(2)(iv)	73.71(b)
POWER LEVEL (10) 0 9 2	20.405(a)(1)(i)	50.36(a)(1)	50.73(a)(2)(v)	73.71(c)
	20.405(a)(1)(ii)	50.36(c)(2)	50.73(a)(2)(vii)	X 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)	50.72(b)(2)(ii)
	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	TELEPHONE NUMBER
	AREA CODE
R. L. Koenigs, Compliance Engineer	5 0 9 3 7 7 - 1 2 5 0 1 Ext. 2279

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	
A	S D	P D C	V F 1 3 0	N							

SUPPLEMENTAL REPORT EXPECTED (14)		EXPECTED SUBMISSION DATE (15)	MONTH	DAY	YEAR
YES (If yes, complete EXPECTED SUBMISSION DATE)	X NO				

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

The Gland Steam Condenser Bypass Valve (COND-PCV-5) closed during corrective maintenance activities due to an Equipment Operator error. The closing of the valve caused two condensate booster pumps to trip off line due to low suction pressure. The pump trips caused a loss of feedwater flow and subsequently a Reactor Scram from low reactor water level.

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

Plant Conditions

a) Plant Mode - 1
b) Power Level - 92%

Event

While manuvering the plant from 94 to 96% power, condensate booster pump COND-P-2C tripped on low suction pressure. Prompt action by the operations staff precluded a low reactor level scram by reducing power to 85%. An instrument calibration was conducted on the pressure sensor to determine if the trip was caused by a faulty switch. The switch proved not to be the cause. The tripped pump was restarted and power escalation began while continously monitoring condensate booster pump suction pressure locally. At 92% power, the suction pressure read 62 psig which was evaluated as low. Further investigation revealed the cause to be a partially open (30%) Gland Seal Steam Condenser (GSSC) flow control valve, COND-PCV-5. This condition caused an excessive amount of the condensate system flow to be diverted through the GSSC and accounted for the low suction pressure. The range spring on the valve positioner (Fischer 486 U-16-60 Actuator with a Fischer 3570 Positioner and Limitorque HlBC Manual Gear Actuator) had come loose causing the valve to position incorrectly.

To permit positioner repair without further reduction in plant power, the valve was secured in a position providing adequate GSSC flow. I&C requested that operations place the valve in local manual control and isolate the valve air supply. However, the operator mistakenly closed the equalizing valve across the air actuator rather than the air supply to the actuator. With a closure signal present, the actuator overcame the mechanical linkage causing the valve to stroke to the full closed position. The set screw and key that secure the manual engagement collar were sheared and the manual operator rendered useless.

The valve closing caused a pressure drop that tripped two condensate booster pumps on low suction pressure. This in turn caused a loss of feedwater and a Reactor Scram (level 3) on low water level.

Immediate Corrective Action

Recovered Plant per normal operating procedures.

Further Corrective Actions

The valve positioner and manual actuator were repaired. The range spring failed when a screw holding the retaining clip on the spring came loose. It was reinstalled using Loc-tite to ensure the screw would stay set.

The Training Department will provide training for operations on the comprehensive understanding of air supply valving and the relationship to manual actuator effects for COND-PCV-5 type actuators.

Safety Significance

There was no safety significance to the event and the Plant responded as designed.

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

Docket No. 50-397
November 21, 1984

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

Subject: NUCLEAR PLANT NO. 2
LICENSEE EVENT REPORT NO. 84-114

Dear Sir:

Transmitted herewith is Licensee Event Report No. 84-114 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,

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

JDM:mm

Enclosure:
Licensee Event Report No. 84-114

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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