NBC Form 344 (8-83)	LIC	ENSEE	EVEN	T RE	PORT	(LER)	U	S. NUK	CLEAR REGULATO	AY COMMISSION 3150-0104	
FACILITY NAME (1)	11-24-0						DOCKET NU	MBER	(2)	PAGE (3)	
Washington Nuclear Plant	- Unit 2						0 5 0	0	0391/	101012	
Reactor Trip Due to Reac	tor Low Wat	er Le	vel								
EVENT DATE (S) LER NUN	MER (6)	REPO	ORT DATE	(7)		OTHER	FACILITIES	INVOL	VED (8)		
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A Low Reactor Water Leveloss of feedwater supply tion pressure when a booster pump trip was can the full open position demineralizer capacity setpoint.	el Reactor capability condensate used by a which rapi and thus	Prote boos failur dly in reduce	ection le op ter re of ncrea ed b	n sys eratin pump the sed s bosten	tem (ng Rea suppl conde ystem r pun	RPS) tri actor fee lying the nsate lon i flow be np suction	p occu edpump e feed ng-cycl eyond t on pre	rred tri lpum e c che essu	d as a re pped on 1 p tripped lean-up v operating re to it	sult of ow suc- i. The alve to filter ts trip	
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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

U.S. NUCLEAR REGULATORY COMMISSION APPROVED OMB NO. 3150-0104

FACILITY NAME (1)	DOCKET NUMBER (2)		LER NUMBER (6)						PAGE (3)		
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Washington Nuclear Plant - Unit 2	0 15 10 10 10 1 31 91	7 814	-	01610	-	010	0 1	20	DF	0	

(a) Power Level - 18%

(b) Plant Mode - 1

(c) During Power Ascension Testing Program

(d) Turbine Generator Output 80 MWe

Event

During Power Ascension Testing, on 6-13-84, a Reactor Low Water Level Trip occurred due to loss of feedwater flow. This was caused by a low suction pressure trip of the condensate booster pumps and its associated Reactor feedpump. While placing a third condensate filter demineralizer in service, the condensate long cycle cleanup valve failed open. The combination of feeding the Reactor vessel and the cleanup line at maximum flow with only two filter demineralizer units in service produced enough system flow to depressurize the condensate booster pump suction header to the 50 psig low suction pressure trip setpoint, causing the pump supply circuit breakers to trip open. Loss of the booster pumps caused a related trip of the operating Reactor feedpump due to low suction pressure. This resulted in a loss of feed water supply to the Reactor and a decrease in water level to the low water level trip setpoint and activation of a Reactor Protection System (RPS) trip.

Immediate Corrective Action

The RCIC system was manually initiated to restore level. Subsequently, two condensate booster pumps and a Reactor feedwater pump were started to maintain level.

Further Corrective Action

Troubleshooting revealed that the packing had blown out of the condensate cleanup flow control valve (RFW-FCV-15) and that the packing ring was cocked as a result. The restriction of movement provided by the failed packing allowed a large open demand signal to develop when the valve actuator finally overcame the restriction, it rapidly opened the valve. The valve was repacked and satisfactorily tested for proper movement.

Safety Significance

The loss of feedwater flow resulting in a low Reactor water level posed no threat to the health and safety of Plant personnel or to the public because the Plant Protection Systems functioned 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 July 6, 1984

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

Subject: NUCLEAR PLANT NO. 2 LICENSEE EVENT REPORT NO. 84-060

Dear Sir:

Transmitted herewith is Licensee Event Report No. 84-060 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 is the follow-up report to the verbal notification given at 0043 hours on June 14, 1984.

Very truly yours,

J. D. Martin (M/D 927M)

WNP-2 Plant Manager

JDM:mm

Enclosure: Licensee Event Report No. 84-060

cc: Mr. John B. Martin, Administrator Region V, Office of Inspection and Enforcement U.S. Nuclear Regulatory Commission 1450 Maria Lane Walnut Creek, California 94596 Mr. A. D. Toth, NRC Resident Inspector (901A) Ms. Dottie Sherman American Nuclear Insurers The Exchange Suite 245 270 Farmington Ave. Farmington, CT 06032