NRC Form 366 (9-83)							LIC	CENSEE EVENT REPORT (LER)						U.S. NUCLEAR REGULATORY COMMISSION APPROVED OMB NO 31500104 EXPIRES. 8/31/85					
FACILITY	NAME !	11			-		_							DOCKET	NUMBE	R (2)		PAGE 131	
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Due to equipment motor failure, cooling was lost to the RPS Room #1, Div. I Battery and Battery Charger rooms and Div. I Emergency Bus SM-7. This necessitated a Plant shutdown as the failure could not be repaired within the Technical Specification allotted time.

SUPPLEMENTAL REPORT EXPECTED (14)

Corrective action included motor replacement, fan bearing replacement and repair of motor support steel welds.

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YES IT ON COMPLETE EXPECTED SUBMISSION DATE

ABSTRACT Limit to 1400 (paces is approximately fifteen single-space typewritten lines) (16)

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NRC Form 306A (9-63)	LICENSEE EVENT REPORT (LER) TEXT CONTINUATION  APPROVED OMB NO. 31 EXPIRES: 8/31/86							
FACILITY NAME (1)		DOCKET NUMBER (2)	1 .	ER NUMBER (6)	PAGE (3)			
			YEAR	SEQUENTIAL MEVISION				
Washington Nuclear Plant - Unit 2		0  5  0  0  0   3  9   7	8 4 -	1 10 1 3 - 010	0120 013			

### Plant Operating Conditions

a) Power Level - 45%

b) Plant Mode - 1

#### Event

WMA-FN-53A supply fuses blew resulting in a loss of cooling to the Reactor Protection System (RPS) Room #1, Division I Battery Room and associated Charger Room and the Critical Switch Gear Room housing bus SM-7. Bypass and Inoperable Status Indication (BISI) alarmed in the control room indicating loss of power to WMA-FN-53A power and/or control circuits. The loss of cooling to the above rooms required the following systems to be declared technically inoperable although the power sources and system functions were never lost:

- o Primary Containment Atmosphere Control (CAC) Div. I
- o Main Steam Leakage Control (MSLC) Div. I

o Low Pressure Core Spray (LPCS)

- o Residual Heat Removal (RHR) Loop A
- o Reactor Core Isolation Cooling (RCIC)
- o Standby Service Water (SSW) A Loop

o #1 Diesel Generator

- \*o Division I 24, 125 and 250 VDC supplies
- \* Per LCO 3.8.2.1 the systems must be restored within 2 hours or the plant must be shutdown to Hot Shutdown within 10 hours. A load rejection test had been scheduled to be performed and this test's resultant SCRAM was used to place the reactor in a Hot Shutdown condition.

All WMA-FN-53A serviced room temperatures were well within the 104°F limit of Technical Specification 3/4.7.8.

# Immediate Corrective Action

A work request was initiated and the motor windings of WMA-FN-53A were found shorted to ground. Temporary ventilation was provided for the affected rooms.

# Further Corrective Action

The motor was replaced and new fuses were installed. Overload heater tests and motor operability tests were performed following motor replacement.

A rough fan bearing (drive end) was noted during initial restart of WMA-FN-53A. Subsequent vibration analysis confirmed this. Further investigation revealed two cracked motor support welds. Both fan bearings were replaced and the cracked welds were repaired.

LICENSEE EVENT REP	UATION	APPROVED OMB NO 3150-0104 EXPIRES 8/31/86				
	DOCKET NUMBER (2)	LER NUMBE	M (6)	PAGE (3)		
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The motor failure is attributed to premature failure of the motor's insulation system. The specific cause of insulation failure was not determined. A satisfactory vibration analysis had been performed on 8/24/84 with no mechanical problems noted. Motor current values were below the nameplate rated amperage during the initial running of the new motor (prior to fan bearing replacement). The running amperage following fan bearing replacement was identical to that observed prior to bearing replacement.

### Safety Significance

Loss of the Division I cooling fan, technically, results in declaring the above listed systems inoperable. Operations personnel in the areas affected confirmed that temperatures remained in the 70°F to 80°F range with little or no detectable heat rise. Control room annunciators for high room temperatures did not alarm, thus indicating room temperatures were below 104°F. The battery room exhaust fan continued to operate providing ventilation of the battery room and adjacent charger room. The Plant was safely shutdown with no additional equipment damage. There was no danger to Plant personnel or to the public.

# Washington Public Power Supply System

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

Docket No. 50-397 October 18, 1984

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

Subject: NUCLEAR PLANT NO. 2

LICENSEE EVENT REPORT NO. 84-103

Dear Sir:

Transmitted herewith is Licensee Event Report No. 84-103 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 0410 hours on October 1, 1984.

Very truly yours,

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

JDM:mm

Enclosure:

Licensee Event Report No. 84-103

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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