NRC Form 366 (9-83)									LICENSEE EVENT REPORT (LER)						U.S. NUCLEAR REGULATORY COMMISSION APPROVED OMB NO 3180-0104 EXPIRES 8/31/85										
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On 7/9/84, during monthly surveillance testing, Standby Diesel Generator 1B (DG1B) incurred a high vibration alarm. Followup investigation revealed that the slip ring end bearing had turned on the shaft insulation, thus destroying the insulation and allowing the shaft to drop slightly and rub on the bearing housing.

The Plant was shut down, placed in Mode IV, and an inspection of Standby Diesel Generator 1A (DG1A) commenced concurrent with repairs to DG1B.

On 7/13/84 DGIA was declared inoperable after preliminary checks revealed it may have suffered a similar failure. The 500 KV:25 KV electrical system was then setup to provide backfeed capability, thus assuring availability of three independent offsite power sources. Verbal notification, via ENS, was provided at 1741 hours on 7/13/84.

Corrective action included modification of the bearing insulation.

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED OMB NO 3150-0104

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

Plant Conditions

- a). Power Level 42% (0%)*
- b) Operational Mode 1 (4)*
- * Values in () indicate Plant condition at time DGIA declared inoperable.

Event

During Plant operations, DGIB was undergoing onthly surveillance testing per Plant Technical Specifications. 3 1/2 hours into a 4 hour run, a high vibration alarm was recorded. The alarm was reset and the run completed without further incident. Followup investigation revealed that the slip ring and bearing had turned on the shaft insulation and destroyed the insulation. This allowed the rotor to drop approximately 0.022" and rub on the bearing housing cover.

Corrective Action

The Plant was placed in cold shutdown, Mode IV, and steps taken to remove DGIB from service. Following Plant shutdown, DGIA inspection revealed that it may also have a similar problem and DGIA was declared inoperable and removal initiated. The vendor's technical representative, a generator manufacturer's representative arrived on site prior to DGIB disassembly.

Following disassembly, it was decided that a minor modification would greatly increase the generator reliability. Root cause of the failure was determined to be a basic design weakness in the application of fiberglass insulation between the generator rotor and inner race of the line bearing. The modification entailed mounting the bearing directly to the shaft and insulating the bearing housing in a more conventional manner.

The modification was made on DG1B and then DG1A was disassembled. Investigation of DG1A disclosed no failure; however, the modification was still made to DG1A. Both sets were reinstalled and retested per NRC Regulatory Guide 1.9. DG1B was declared operable on 7/28/84 and DG1A declared operable on 7/29/84.

Safety Significance

In as much as the Plant was shutdown well before the LCO statement required, there was no hazard to the safety of the Plant or that of the public. The HPCS Diesel Generator, one Standby Diesel Generator and two offsite power sources were available while the Reactor was in modes .I, II & III and the HPCS Diesel Generator and three separate offsite power sources were available while the Reactor was in Mode IV.

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

APPROVED OMB NO 3150-0104
EXPIRES 8/31/85

FACILITY NAME (1)

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

Special Data as Required by Regulatory Guide 1.108 Regulatory Position C.3.b

1). Failed Unit: DB1B

2) 1st failure in last 100 starts

3) Cause: Bearing insulation failure

4) Modification of insulation application

5) Unit was inoperable for 19 days

6) Current test interval is once per 31 days

7) This test interval is in compliance with Regulatory Guide 1.108 Regulatory Position C.2.d

Washington Public Power Supply System

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

Docket No. 50-397 August 2, 1984

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

Subject: NUCLEAR PLANT NO. 2

LICENSEE EVENT REPORT NO. 84-075

Dear Sir:

Transmitted herewith is Licensee Event Report No. 84-075 for WNP-2 Plant. This report is submitted in response to the report requirements of 10CFR50.73 and WPPSS Nuclear Plant No. 2 Technical Specification Section 4.8.1.13 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 1741 hours on July 13, 1984.

Very truly yours,

D. Martin (M/D 927M)

JDM:mm

Enclosure:

Licensee Event Report No. 84-075

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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