	REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)	
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AUTH NAME	AUTHOR AFFILIATION	
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POWERS, C. M.	Washington Public Power Supply System	
RECIP. NAME	RECIPIENT AFFILIATION	i

SUBJECT: LER 87-006-00: on 870426, after shutdown margin demonstration, reactor protection sys tripped when last shorting link improperly installed. Cause determined to be design-related. Terminal strip arrangement will be evaluated. W/870522 lty.

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Plant Conditions

- a) Power Level 0%
- b) Plant Mode 5 (Refueling)

## Event Description

On April 26, 1987 at 1933 hours, following a shutdown margin demonstration surveillance, a Reactor Protection System (RPS) trip occurred while the last shorting link was being installed (shorting links had already been properly installed in Divisions Al, Bl, and A2). The link for RPS subchannel B2 was inadvertently placed at the wrong terminal board points (AA-70 and AA-71 instead of AA-69 and AA-70). This caused an electrical short in the manual scram circuit which tied two power supplies together. As a result, manual scram circuit fuses C72-F15C and C72-F15D blew. Loss of power to both RPS Division Manual Trip Relays resulted in a reactor scram. Since the reactor was shutdown prior to the event, no actual control rod movement occurred as a result of the scram.

The root cause of this event has been determined to be design-related in that the physical arrangement of the terminal strip in the Control Room cabinet makes it difficult to install the shorting links to the rear side of the terminal strip. This is particularly true of Control Room panel P611D where an existing wire is already landed at the rear side terminal, bottom screw.

## Immediate Corrective Action

The two manual scram circuit fuses were replaced, the shorting link was installed properly and the system was restored to normal shutdown status.

## Further Corrective Action

- The affected RPS circuitry will be checked, during routine surveillance testing, for possible damage prior to the next plant startup.
- An Engineering evaluation will be performed to consider changing the physical arrangement of the terminal strips to allow easier installation of the shorting links.

# Safety Significance

There is no safety significance associated with this event in that the reactor was in cold shutdown prior to the event, there was no actual initiating condition and the RPS functioned as designed to cause a reactor scram. This event caused no threat to the safety of the public or plant personnel.

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## WASHINGTON PUBLIC POWER SUPPLY SYSTEM

P.O. Box 968 • 3000 George Washington Way • Richland, Washington 99352

Docket No. 50-397 May 22, 1987

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

Subject: NUCLEAR PLANT NO. 2 LICENSEE EVENT REPORT NO. 87-006

Dear Sir:

Transmitted herewith is Licensee Event Report No. 87-006 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,

lowrus

C.M. Powers (M/D 927M) WNP-2 Plant Manager

CMP:1c

Enclosure: Licensee Event Report No. 87-006

cc: Mr. John B. Martin, NRC - Region V Mr. R. T. Dodds, NRC - Site (901A) Mr. W. E. Milbrot, BPA (M/D 399) INPO Records Center - Atlanta, GA Ms. Dottie Sherman, ANI Mr. C. E. Revell, BPA (M/D 399)

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