

# ACCELERATED DISTRIBUTION DEMONSTRATION SYSTEM

## REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR:8905260197 DOC.DATE: 89/05/19 NOTARIZED: NO DOCKET #  
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 MURLEY,T.E. Office of Nuclear Reactor Regulation, Director (Post 870411)

SUBJECT: Part 21 rept re defects in target rock actuator kits.

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WASHINGTON PUBLIC POWER SUPPLY SYSTEM

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

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May 19, 1989

G02-89-095

Docket No. 50-397

Mr. T. E. Murley, Director  
Office of Nuclear Reactor Regulation  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555

Gentlemen:

Subject:       NUCLEAR PLANT NO. 2  
                  LICENSE NO. NPF-21  
                  10CFR PART 21 REPORT

This is a special report submitted in accordance with the requirements of 10CFR Part 21 by Mr. G. D. Bouchey, Director, Licensing and Assurance. The address of the Washington Public Power Supply System is as follows:

Washington Public Power Supply System  
PO Box 968  
3000 George Washington Way  
Richland, Washington 99352

Questions concerning this report should be referred to Mr. J. D. Arbuckle, Compliance Engineer (509) 377-2115. The verbal notification of this 10CFR Part 21 condition was made on May 16, 1989 by Mr. C. M. Powers, WNP-2 Plant Manager to Mr. P. Johnson, Section Chief, Reactor Projects Section 3, NRC Region V.

The basic components which contained the defects are Target Rock Actuator kits (Part No. 300562-1). They were manufactured as Quality Class I by Target Rock Company, East Farmingdale, New York. The defects noted are as follows:

- o Cold solder condition
- o Insufficient solder joints
- o Failed solder joints

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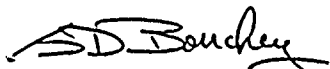
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The defects were discovered on May 9, 1989 by Plant Electrical Maintenance engineers when they were preparing the components for installation. It should be noted that the actuator kits, which were part of an equipment qualification upgrade, were never installed in the Plant. All defective kits (a total of 17) were returned to Target Rock on May 11, 1989 for repair.

The reasons the Supply System considers this to be a 10CFR Part 21 condition are 1) the actuator kits are basic components 2) the components (if installed) would have been used to prevent or mitigate the consequences of accidents (the kits would have been used in a containment isolation function) 3) the kits contained defects which were deviations in a delivered component and 4) evaluation showed that the defects could create a substantial safety hazard. The reason for the substantial safety hazard is that, had the components been installed, with a cold solder condition they could have successfully passed a preoperational test and then failed at a later time, rendering the containment isolation valves inoperable. The failure mode would have been either loss of position indication, or the valves failing in the closed position. The defective components were to be installed on four Containment Supply Purge (CSP) valves and 13 Process Instrumentation (PI) valves. All of these valves are one-inch, solenoid actuated valves.

As previously stated, all defective actuator kits were returned to the manufacturer for repair. Further corrective actions include 1) evaluating the receiving inspection process at WNP-2, and 2) evaluating the necessity to increase vendor surveillance activities at Target Rock facilities. In addition, Target Rock will be formally notified of this 10CFR Part 21 determination.

Very truly yours,



G. D. Bouchey, Director  
Licensing and Assurance

JDA/bk

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