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 AUTH. NAME AUTHOR AFFILIATION
 * Washington Public Power Supply System
 RECIPI. NAME RECIPIENT AFFILIATION
 NRC - No Detailed Affiliation Given

SUBJECT: Part 21 rept re undersized yoke clamps on three HPCS motor-operated valves supplied by Anchor/Darling Valve Co. NDE will be performed on all clamps to determine if condition affects valve operability. Clamps to be replaced by 921031.

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Docket No. 50-397

U.S. Nuclear Regulatory Commission

Subject: WNP-2, OPERATING LICENSE NPF-21
10 CFR PART 21 REPORT
MOTOR OPERATED VALVE YOKE CLAMPS

This is a 10 CFR Part 21 report submitted in accordance with the requirements of 10 CFR 21.21. Verbal notification of this condition was made to NRC Operations on August 14, 1992. The information required is provided below.

Anchor/Darling Valve Company
701 First Street
P.O. Box 3428
Williamsport, Pa 17701-0428

The yoke clamps of three High Pressure Core Spray (HPCS) motor operated valves at WNP-2 were found to be undersized. The clamps were supplied with the valves manufactured by Anchor/Darling. Two of the three valves are on the return line to the Condensate Storage Tanks, HPCS-V-10 and -11, and the third valve is on the return line to the Suppression Pool, HPCS-V-23. A stress analysis indicated the clamps would exceed the yield strength of the clamp material whenever the valves are stroked closed. As a result, the number of allowable valve actuation cycles is much less than design. The yoke clamps are expected to perform their function for more than 10 years of routine surveillance testing and under all accident conditions.

The actual condition at WNP-2 was not safety significant. Engineering calculations indicate that the yoke clamp will withstand at least 150 cycles. To date an estimated 100 cycles have been placed on the valves. Based on the absence of a critical flaw, the yoke clamps still have a reasonable life. However, non-destructive examination (NDE) will be performed on all three clamps by October 31, 1992 to determine if the condition affected valve operability. An evaluation will be done following NDE to determine if the condition is reportable pursuant to the requirements of 10 CFR 50.72 or 10 CFR 50.73.

The defect was identified on July 27, 1992.

WNP-2 was the purchaser, not the supplier of these parts.

The originally installed clamps will be replaced with new clamps by October 31, 1992. The Supply System is responsible for the corrective actions.

The Supply System has never experienced a failure of these clamps.

Any questions concerning this report should be referred to Mr. R. E. Fuller, Compliance Engineer, who can be reached at (509) 377-4148.

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