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 RECIP. NAME: RECIPIENT AFFILIATION: Document Control Branch (Document Control Desk)

SUBJECT: Part 21 rept re undersized yoke clamps in three Anchor Darling HPCS motor-operated valves. Clamps located on return lines to condensate storage tanks & suppression pool. Clamps will be replaced by util by 921031.

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August 14, 1992  
G02-92-197

Docket No. 50-397

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

Gentlemen:

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.

- Requirement 1

Identification of the firm constructing the facility or supplying the basic component which fails to comply or contains a defect.

- Response 1

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

- Requirement 2

Nature of the defect or failure to comply and the Substantial Safety Hazard which is created or could be created by such defect or failure to comply.

- Response 2

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,

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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.

- Requirement 3

The date on which the information of such defect or failure to comply was obtained.

- Response 3

July 27, 1992.

- Requirement 4

In the case of a basic component which contains a defect or fails to comply, the number and location of all such components in use at, supplied for, or being supplied for one or more facilities or activities subject to the regulations of this part.

- Response 4

The Supply System does not possess this information. WNP-2 was the purchaser, not the supplier of these parts.

- Requirement 5

The corrective action which has been, is being, or will be taken; the name of the individual or organization responsible for the action; and the length of time that has been or will be taken to complete the action.

- Response 5

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

- Requirement 6

Any advice related to the defect or failure to comply about the facility, activity, or basic component that has been, is being, or will be given to purchasers or licensees.

- Response 6

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.

Sincerely,



G. C. Sorensen, Manager  
Regulatory Programs (Mail Drop 280)

REF/bk

cc: JB Martin - NRC RV  
NS Reynolds - Winston & Strawn  
RR Assa - NRC  
DL Williams - BPA/399  
NRC Site Inspector - 901A  
F Bensinger - Anchor/Darling