

# REGULATORY INFORMATION DISTRIBUTION SYSTEM (GRIDS)

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 BOUCHEY, G.D. Washington Public Power Supply System  
 RECIP. NAME: RECIPIENT AFFILIATION  
 SCHWENCER, A. Licensing Branch 2

SUBJECT: Submits info re fast scram hydrodynamic loads on control rod drive sys per NRC 820405 request. Requests that issue be considered confirmatory pending submittals of BWR owners group generic rept.

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## Washington Public Power Supply System

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May 20, 1982

G02-82-455

SS-L-02-PLP-82-033

Docket No. 50-397

Mr. A. Schwencer, Chief  
Licensing Branch No. 2  
Division of Licensing  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555

Dear Mr. Schwencer:

Subject: NUCLEAR PROJECT NO. 2  
FAST SCRAM HYDRODYNAMIC LOADS  
ON CONTROL ROD DRIVE SYSTEMS

Reference: Letter. A. Schwencer (NRC) to R.L. Ferguson (SS),  
Same Subject, dated April 5, 1982

The referenced letter identified hydrodynamic loads in the CRD system as an open item for WNP-2. The Supply System has performed a review of the WNP-2 CRD system and provides the following information:

- The referenced letter states that the "worst case" loads occur when a design basis inlet valve opening time of 20 milliseconds is used. WNP-2 valve opening times are 60-100 milliseconds, and 40-60 milliseconds for the inlet and exhaust valves, respectively. The slower opening times will limit the magnitude of the quick opening valve transient load experienced on the WNP-2 system.
- The Supply System staff has reviewed the "quick look" results of tests conducted on the LaSalle County system to measure the subject loads. The quick look results indicate that the loads are significantly less than those analytically predicted. Since the WNP-2 design is similar to LaSalle County it is anticipated that the test results will be applicable to WNP-2.
- The BWR Owner's Group is preparing a generic response to this issue. As a participant in the BWR Owner's Group it is the Supply System's intention to work with the Owner's Group in resolving this issue.

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Considering that the BWR Owner's Group generic approach will not be ready for submittal in the near term and that an evaluation of the Supply System design indicates that the WNP-2 design does not incorporate those design aspects responsible for the "fast scram" hydrodynamic load, it is requested that this issue be considered confirmatory pending submittal of the BWR Owner's Group generic report.

Should you have any questions, please contact Mr. R. M. Nelson, Project Licensing Manager, WNP-2.

Very truly yours,



G. D. Bouchey  
Deputy Director, Safety and Security

PLP/jca

cc: R Auluck - NRC  
WS Chin - BPA  
R Feil - NRC Site  
CS Haynes - BECH  
H Reading - BECH

