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 50-388 Susquehanna Steam Electric Station, Unit 2, Pennsylv 05000388

AUTH. NAME: CURTIS, N.W.
 AUTHORITY AFFILIATION: Pennsylvania Power & Light Co.
 RECIP. NAME: SCHWENCER, A.
 RECIPIENT AFFILIATION: Licensing Branch 2

SUBJECT: Responds to NRC 820405 letter re fast scram hydrodynamic loads on control rod drive sys. Preliminary report on waterhammer load completed by Teledyne Engineering Svcs. Complete response expected by 821231.

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Pennsylvania Power & Light Company

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Norman W. Curtis
Vice President-Engineering & Construction-Nuclear
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APR 19 1982



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

SUSQUEHANNA STEAM ELECTRIC STATION
HYDRODYNAMIC LOADS ON CRD SYSTEM PIPING
ER 100450 FILE 841-2
PLA-1067

Docket Nos. 50-387
50-388

Reference 1: Letter dated October 14, 1981, J. C. Millett (Reactor Controls, Incorporated) to Director, NRC Office of Inspection & Enforcement; "Potentially Reportable Condition (CRD Hydraulic System)"

Dear Mr. Schwencer:

The following is PP&L's response to your letter of April 5, 1982 concerning "Fast Scram" Hydrodynamic loads on Control Rod Drive Systems. In this letter you expressed concerns that the hydrodynamic loads in our CRD system may not have been properly evaluated, based on information supplied to the NRC by a vendor of control rod drive systems.

In your letter, you requested the date by which we could respond to five questions in order to ensure that the hydrodynamic loads at our facility were properly evaluated.

Presently, a preliminary report on the CRD waterhammer load has been completed by Teledyne Engineering Services for PP&L. Since this report is preliminary, additional work is required to evaluate conservatism; however, it could be used as a starting point for doing future work in this area. Also, during the past several months PP&L has been participating in a Committee of the BWR Owner's group which has been evaluating the concerns expressed in Reference 1. This committee is presently investigating the feasibility of conducting a program which utilizes actual plant data to resolve, on a generic basis, the concerns expressed in your letter. PP&L is also investigating the various load combinations that could result from the hydrodynamic loads so that an accurate assessment of the impact of these loads on the design basis CRD system can be made.

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Boal
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APR 19 1982

Page 2

SSES PLA-1067
ER 100450 . File 841-2
Mr. A. Schwencer

Based on the above information, we feel that we could adequately respond to your letter by December 31, 1982.

Very truly yours,



N. W. Curtis
Vice President-Engineering & Construction-Nuclear

WEB/mks

cc: R. Perch - USNRC

