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 FACIL: 50-387 Susquehanna Steam Electric Station, Unit 1, Pennsylvania      05000387  
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SUBJECT: Provides interim justification for operability of feedwater sys check valves. Calculations & ASME/ANSI stds provide adequate assurance that guillotine break of feedwater piping would not occur as result of operational transient.

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September 29, 1982

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

SUSQUEHANNA STEAM ELECTRIC STATION  
FEEDWATER SYSTEM CHECK VALVES  
ER 100450 FILE 841-2  
PLA-1322

Docket No. 50-387

Dear Mr. Schwencer:

A previous letter (PLA-1320) committed PP&L to perform a dynamic analysis of the Feedwater system containment isolation check valve internals by April 1, 1983. For the interim period, existing calculations (results of which were forwarded with the referenced letter), and ASME/ANSI standards to which the valves and piping were designed, provide adequate assurance that the feedwater system is suitable for operation. These calculations show that a guillotine break of the feedwater piping would not occur as a result of any credible operational transient.

The most severe credible operational transient on the containment isolation check valves is considered to be simultaneous trip of the reactor feed pumps and the condensate pumps. Bechtel advises us that a computer analysis of a simultaneous trip of all reactor feed pumps and condensate pumps on a similar BWR plant showed a pressure increase in the feedwater piping between the reactor vessel and the outermost containment isolation valve, of approximately 20 psig above reactor pressure. The static pressure retaining capability of the Susquehanna containment isolation valves has been determined in accordance with ASME Section III. The valves are 900 psi rated valves for which ASME Section III requires a standard calculational static pressure of 2425 psi. The dynamic loads, due to the pressure surge are not substantial and are encompassed by the calculation static pressure. PP&L therefore believes the containment isolation check valves will perform their intended function during operational transients.

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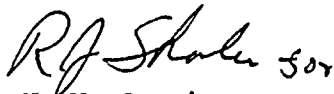


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Analysis of the containment isolation check valves ability to withstand a guillotine feedwater system break is a bounding condition for the operability of these valves. This analysis is being performed and is scheduled for submittal to the NRC on April 1, 1983.

Considering the present schedule, start-up testing, during which 1 feed pump will be tripped while 2 remain running, can be accomplished the week of Jan. 1, 1983. No start-up test for simultaneous trip of 3 feed pumps is planned.

Very truly yours,



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

WEB/mks

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