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AUTH. NAME      AUTHOR AFFILIATION  
 BYRAM, R.G.      Pennsylvania Power & Light Co.  
 RECIPIENT AFFILIATION  
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SUBJECT: Provides clarification to NRC question re boundary valves required to support establishment of condenser pathway proposed as alternate method to treat MSIV leakage.

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**Pennsylvania Power & Light Company**

Two North Ninth Street • Allentown, PA 18101-1179 • 610/774-5151

Robert G. Byram  
Senior Vice President—Nuclear  
610/774-7502  
Fax: 610/774-5019

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U. S. Nuclear Regulatory Commission  
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**SUSQUEHANNA STEAM ELECTRIC STATION  
MAIN STEAM ISOLATION VALVE/ALTERNATE  
LEAKAGE TREATMENT SYSTEM : FOLLOW-UP RESPONSE  
TO TELECON REQUEST FOR ADDITIONAL INFORMATION  
REGARDING BOUNDARY VALVES  
PLA-4333**

**FILES A17-2/R41-2**

Docket Nos. 50-387  
and 50-388

- References:*
- 1) PLA-4323, R.G. Byram to USNRC, "Main Steam Isolation Valve/Alternate Leakage Treatment System: Follow-up Response to Telecon Request for Additional Information", dated 5/24/95.
  - 2) PLA-4303, R.G. Byram to USNRC, "Main Steam Isolation Valve/Alternate Leakage Treatment System: Follow-up Response to Request for Additional Information", dated 4/10/95.
  - 3) PLA-4289, R.G. Byram to USNRC, "Main Steam Isolation Valve/Alternate Leakage Treatment System: Response to Request for Additional Information", dated 3/28/95.
  - 4) USNRC to R.G. Byram, "Request for Additional Information Regarding the Pennsylvania Power & Light Company's Request to Amend the Susquehanna Steam Electric Station Unit 1 & 2 Licenses to Reflect Removal of the Main Steam Isolation Valve Leakage Control System" (TAC Nos. M91013 and M91014) dated 3/03/95.
  - 5) PLA-4228, R.G. Byram to USNRC, "Proposed Amendment Nos. 178 to License No. NPF-14 and No. 132 to License No. NPF-22 : Increase of MSIV Leakage Rate and Deletion of Leakage Control System," dated 11/21/94.

The purpose of this letter is to provide clarification to the NRC question regarding the boundary valves required to support the establishment of the condenser pathway proposed as the alternate method to treat Main Steam Isolation Valve (MSIV) leakage. Enclosure 3 of Reference 1 provided a description of the MSIV leakage condenser pathways. The primary condenser pathway was identified as utilizing the main steam drain line to route any MSIV leakage to the condenser. The secondary condenser pathway was identified as utilizing several alternate lines to route leakage to the condenser. (These pathways were illustrated in a drawing attached to Reference 5.) Within that response, it was identified that there are two motor operated valves associated with the primary drain line pathway of which one is normally opened and the other normally closed. The F020 valve is the safety related normally open valve and is designed to fail safe, upon loss of offsite power, in the open position. However, the F021 valve is a normally closed valve

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and is required to be open to establish the primary flow path to the condenser. The ability to establish this primary flow path has been assured, with a high degree of certainty, based on the following:

- The F021 valve will be powered from a bus that is supplied from two independent offsite power sources and a highly reliable diesel generator.
- The F021 valve will be included in the SSES IST program. The valve will be stroke tested (open) on a cold shutdown frequency in accordance with the program.
- The F021 valve operator has been evaluated to assure that the valve will function as expected under conservative postulated accident conditions.

In addition to the valves required to establish the primary flow path, there are three normally open motor operated boundary valves that will need to be closed when the condenser pathway is used to treat MSIV leakage. The boundary valves are: HV-10107, to Steam Jet Air Ejector; HV-10109, to Steam Seal Evaporator; and HV-10111, to Reactor Feed Pump Turbines.

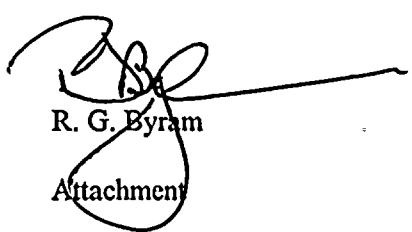
Similar to the F021 valve, these three boundary valves are able to be closed with a high degree of certainty based on the following:

- The motor operated boundary valves will be powered from a bus that is supplied from two independent offsite power sources and a highly reliable diesel generator.
- The motor operated boundary valves will be included in the SSES IST program. The valves will be stroke tested (closed) on a cold shutdown frequency in accordance with the program.
- The motor operated boundary valves' operators have been evaluated to assure that the valves will function as expected under conservative postulated accident conditions.

Thus the highly reliable power supply, the IST testing, the engineering evaluations of the operators capability and the seismic evaluations of the drain line provide the basis for the high degree of confidence that the valves and pathway will function as required to establish the primary MSIV leakage pathway to the condenser.

Based on the above, PP&L has determined that the proposed primary path provides the necessary level of protection and reliability which is required for this service. Questions regarding this supplemental information should be directed to Mr. A. K. Maron at (610) 774-7727.

Very truly yours,



R. G. Byram

Attachment

copy: NRC Region I  
Ms. M. Banerjee, NRC Sr. Resident Inspector - SSES  
Mr. C. Poslusny, Jr., Sr. Project Manager - OWFN  
Mr. W. P. Dornsife, PA DER

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