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50-388 Susquehanna Steam Electric Station, Unit 2, Pennsylva 05000388
AUTH.NAME AUTHOR AFFILIATION
CURTIS,N.W. Pennsylvania Power & Light Co.
RECIP.NAME RECIPIENT AFFILIATION
YOUNGBLOOD,B.J. Licensing Branch 1

SUBJECT: Discusses SER Outstanding Issue 34 re long-term cooling capabilities w/leakage from first isolation valve outside suppression pool.Capability would not be impaired. Suppression pool water could be made up by listed methods.

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NORMAN W. CURTIS
Vice President-Engineering & Construction-Nuclear
770-5381

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U.S. NUCLEAR REGULATORY COMMISSION

April 16, 1981

Mr. B. J. Youngblood
Licensing Branch #1
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Susquehanna Steam Electric Station Docket Nos. 50-387 and 50-388
SER Outstanding Issue No. 34
Leakage from first isolation valve (6.3.2.3)
ER100450 File 841-2
PLA-729 Reference PLA-695

Dear Mr. Youngblood:

Long term cooling capabilities are not impaired by a leak from the first isolation valve outside the suppression pool. Suppression pool water leakage (assumed to leak past the valve stem packing) can be made up by several methods. Leakage into the ECCS pump room will not flood high enough to communicate with other rooms. By maintaining water levels in the suppression pool, water level will eventually level out in the ECCS room stopping the leak. This assures long term cooling capabilities with the suppression pool.

There are many methods of making up suppression pool water by either putting additional water directly into the suppression pool or into the vessel (assuming a LOCA). The following are a couple of suggestions:

1) Ultimate Heat Sink water can be pumped into the Suppression Pool via the RHR service water pump discharge cross tie to the RHR system. Several sources of water are available to the UHS such as the Makeup Water System (River Water) or by gravity from the cooling tower basins.
2) Makeup water is available via the Makeup Demineralizer System to the Condensate Storage Tank, then via either the CS system or through the condenser Hotwell and Condensate Pump to the Reactor.
3) If circumstances or time permits, additional makeup paths are available which require steam or manual valve operation in the Reactor building.

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These are the RCIC, HPCI or condensate transfer pump from the Condensate Storage Tank to the Reactor or directly from the makeup demineralizer system via the suppression pool fill line.

4) If health physics allow, a recirculation path similar to that allowed on LaSalle can be set up by opening a manually operated floor drain valve in the ECCS pumps room. Drainage goes to the liquid radwaste, then eventually to the Condensate Storage Tank, then returned via several of the methods described above.

Very truly yours,

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

cc: R. M. Stark

bss: N. W. Curtis
W. E. Barberich
B. A. Snapp
C. T. Coddington
R. J. Shovlin