REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

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FACIL:50-387 Susquehanna Steam Electric Station, Unit 1, Pennsylva 05000387
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CURTIS,N.W. Pennsylvania Power & Light Co.
RECIP.NAME RECIPIENT AFFILIATION
SCHWENCER,A. Licensing Branch 2

SUBJECT: Forwards drawings of mod to resolve essential svc water single failure issue. Mod allows manual shutoff valves in RHR room & corrects loss of both RHR pumps in one div.

DISTRIBUTION CODE: B001S COPIES RECEIVED:LTR 1 ENCL 1 SIZE: 13
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NOTES:1cy NMSS/FCAF/PM. 05000387

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	DMB/DSS (AMDTS)		1	1	FEMA-REP DIV	39	1	1
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MAY 16 1983

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

SUSQUEHANNA STEAM ELECTRIC STATION
RESPONSE TO LICENSE CONDITION 2.C.(32)
ER 100450 FILE 841-2
PLA-1656 Docket No. 50-387

References: 1. PLA-1409, N. W. Curtis to A. Schwencer, December 1, 1982
2. PLA-1388, N. W. Curtis to A. Schwencer, November 8, 1982

Dear Mr. Schwencer:

In Reference 1, PP&L informed the NRC of the modifications we intended to make to resolve the ESW single failure issue (see Reference 2 and License Condition 2.C(32)). That letter described the fix as valving out the system high points and leaving the bypass valves and the ESW pump discharge valves open. In that configuration, three out of four ESW pumps and two loops of ESW are required in order to provide sufficient cooling water to essential, safety related equipment during an accident, given the failure of a single component.

Since that time, a comprehensive Failure Modes and Effects Analysis has been completed which identified other single failures which could render one loop of ESW inoperable. Consequently, an alternate solution is necessary. In the current configuration of ESW, loss of one loop results in the loss of both RHR pumps in one division due to a lack of cooling water. As a minimum, one RHR pump in each division and one loop of core spray are needed to safely shut down in the most limiting case, a suction side break LOCA.

The attached sketch indicates the modification we have chosen as a solution to this problem. Cooling water from the other division of ESW will be repiped to the C and D RHR pump motor oil coolers, seal coolers and room unit coolers. Hence, one loop of ESW will cool one RHR pump in each division, thus allowing the equipment cooling requirements for safe shutdown to be met. This modification also provides manual shutoff valves in the RHR room where the connection to ESW is made.

B001

Contingent upon NRC approval of this design modification, this closes License Condition 2.C.(32).

Very truly yours,

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

Attachment

cc: R. L. Perch - USNRC

NEED 2 PUMPS F[illegible] SAFE SHUT DOWN

● ○ = POWERED BY D/G