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ACCESSION NBR: 8305190295 DOC. DATE: 83/05/16 NOTARIZED: NO DCKET #:
 FACIL: 50-387, Susquehannel Steam Electric Station, Unit: 1, Pennsylv: 05000387
 AUTH. NAME: AUTHR: AFFILIATION
 CURTIS, N.W. Pennsylvahdal Power & Light. Co.
 RECIPI. NAME: RECIPIENT: AFFILIATION:
 SCHWENCER, A. Licensing Branch 2.

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

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NOTES: 1cy NMSSVFCAFVPM.

05000387

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	NRR/DSI/PSB 19	1 1	NRR/DSI/RAB 22	1 1
	NRR/DSI/RSB 23	1 1	<u>REGI FILEI</u> 04	1 1
	RGN1	3 3	RM/DDAMI/MIB	1 0
EXTERNAL:	ACRS 41	6 6	BNL(AMDT)(ONLY)	1 1
	DMB/DSG (AMDT)	1 1	FEMA-REPI DIVI 39	1 1
	LPDR 03	2 2	NRCI PDR 02	1 1
	NSICI 05	1 1	NTIS	1 1

NOTES: 1 1

1. The first part of the document is a list of names and addresses, including "Mr. J. H. Smith, 123 Main St., New York, N.Y." and "Mrs. A. B. Jones, 456 Elm St., Chicago, Ill."

2. The second part of the document is a list of names and addresses, including "Mr. C. D. Brown, 789 Oak St., Boston, Mass." and "Mrs. E. F. Green, 101 Pine St., Philadelphia, Pa."

3. The third part of the document is a list of names and addresses, including "Mr. G. H. White, 234 Cedar St., San Francisco, Calif." and "Mrs. I. J. Black, 567 Birch St., Los Angeles, Calif."

4. The fourth part of the document is a list of names and addresses, including "Mr. K. L. Gray, 890 Maple St., Dallas, Tex." and "Mrs. M. N. Hall, 1234 Spruce St., Houston, Tex."

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Mrs. A. B. Jones	456 Elm St.	Chicago	Ill.	60601
Mr. C. D. Brown	789 Oak St.	Boston	Mass.	02101
Mrs. E. F. Green	101 Pine St.	Philadelphia	Pa.	19101
Mr. G. H. White	234 Cedar St.	San Francisco	Calif.	94101
Mrs. I. J. Black	567 Birch St.	Los Angeles	Calif.	90001
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Norman W. Curtis
Vice President-Engineering & Construction-Nuclear
215/770-7501

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.

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PDR

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Page 2

SSES PLA-1656
ER 100450 File 841-2
Mr. A. Schwencer

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

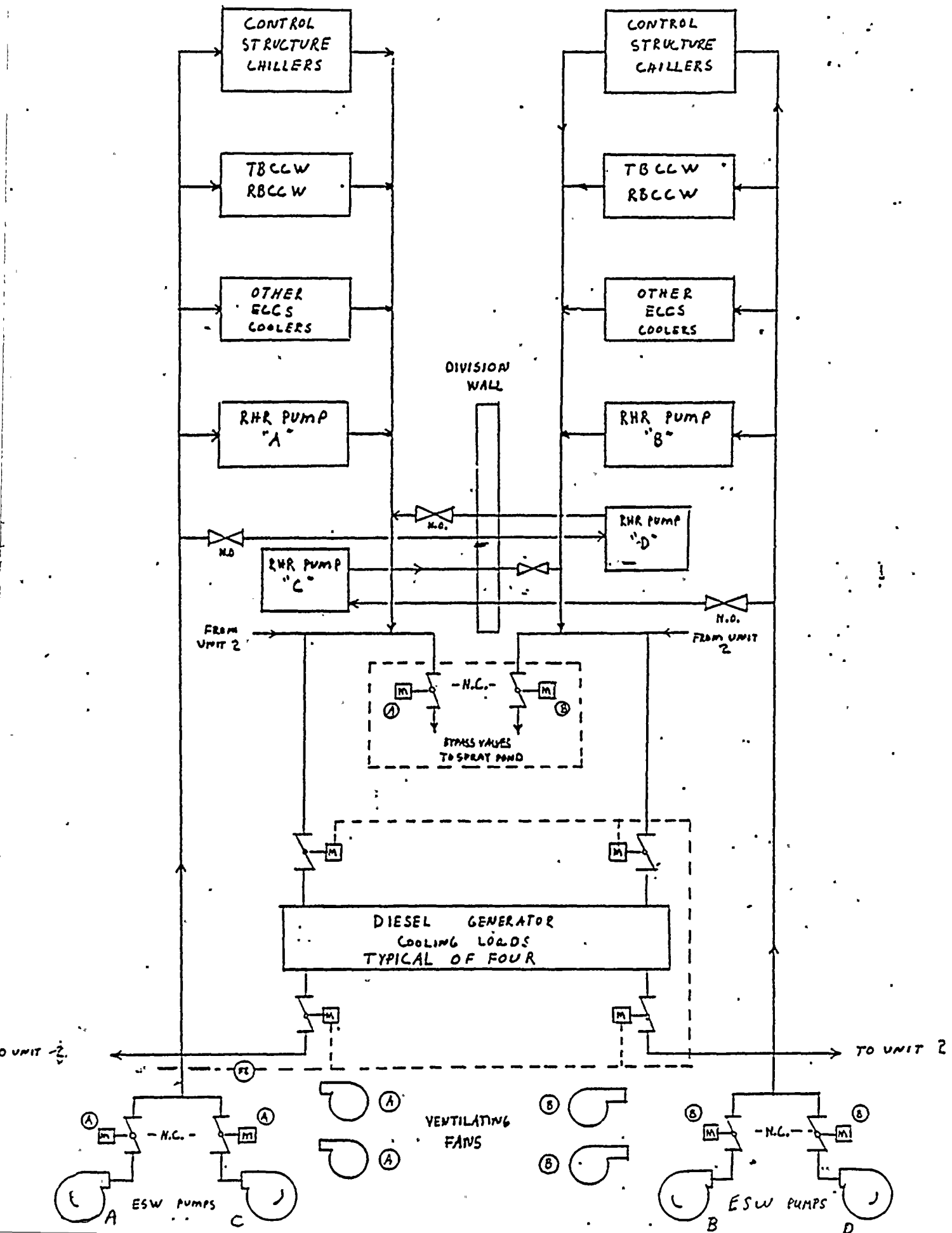
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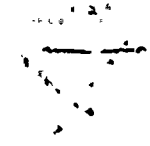
cc: R. L. Perch - USNRC

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NEED 2 PUMPS FOR SAFE SHUT DOWN

● ○ = POWERED BY - D/G





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