

JAN 20 1976

Docket No. 50-289

Metropolitan Edison Company  
ATTN: Mr. R. C. Arnold  
Vice President - Generation  
P. O. Box 542  
Reading, Pennsylvania 19603

Gentlemen:

Distribution

Docket  
NRC PDR  
Local PDR  
ORB4 Rdg  
KGoller  
TCarter  
RWReid  
RIngram  
DBridges  
OELD  
OI&E (3)  
DEisenhut  
TAbernathy

JBuchana.  
File  
ACRS (16)

We have reviewed your correspondence dated October 13, and November 12, 1975 regarding the Three Mile Island Unit 1 Reactor Building Spray System. However, in order for us to complete this review it will be necessary for you to provide additional description regarding the spray system and its performance characteristics.

The specific information requested is discussed in detail in the enclosure to this letter.

You are requested to provide this information within 30 days of receipt of this letter.

Please provide your response with three signed originals and 37 additional copies.

Sincerely,

Original signed by

Robert W. Reid, Chief  
Operating Reactors Branch #4  
Division of Operating Reactors

Enclosure:  
Request for Additional  
Information

cc:  
See next page

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*RG*

OFFICE ➤	ORB4 <i>m</i>	ORB4 <i>DB</i>	ORB4 <i>RW</i>			
SURNAME ➤	RIngram	DBridges:mt	RWReid			
DATE ➤	1/16/76	1/20/76	1/19/76			

January 20, 1976

cc:

G. F. Trowbridge, Esquire  
Shaw, Pittman, Potts, Trowbridge & Madden  
Barr Building  
910 17th Street, N. W.  
Washington, D. C. 20006

POOR ORIGINAL

GPU Service Corporation  
Richard W. Howard, Project Manager  
Thomas M. Crimmins, Jr., Safety  
and Licensing Manager  
260 Cherry Hill Road  
Parsippany, New Jersey 07054

Pennsylvania Electric Company  
Mr. R. W. Conrad  
Vice President, Generation  
1001 Broad Street  
Johnstown, Pennsylvania 15907

Mr. Weldon B. Archart, Chairman  
Board of Supervisors of Londonberry  
Township  
2148 Foxiana Road  
Middletown, Pennsylvania 17057

Miss Mary V. Southard, Chairman  
Citizens for a Safe Environment  
P. O. Box 405  
Harrisburg, Pennsylvania 17108

Government Publications Section  
State Library of Pennsylvania  
Box 1601 (Education Building)  
Harrisburg, Pennsylvania 17126

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REQUEST FOR ADDITIONAL INFORMATION

THREE MILE ISLAND, UNIT 1

DOCKET NO. 50-289

Discuss how the minimum static pressure at the points where the chemical tank discharge lines join the lines leading from the BWST to the spray pumps was determined. Provide system drawings showing the elevation of the chemical tanks, BWST, and connecting piping. Describe and justify the methods used for determining the static pressure head due to the liquid in the BWST, the aspiration force in the spray lines at the chemical tank discharge points, and the friction forces involved. Since free vortex formation in the BWST could affect the static pressure head, provide the following information:

- a. Provide the liquid heights in the BWST at the end of the injection phase.
- b. Provide the maximum liquid velocity in the suction lines and the suction line diameters.
- c. Describe any anti-vortex formation devices that are provided in the BWST. Provide an analysis of the effectiveness of these devices and include available empirical data which demonstrates that they will be effective in preventing vortex formation.

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