

UNITED STATES OF AMERICA
ATOMIC ENERGY COMMISSION

IN THE MATTER OF)

METROPOLITAN EDISON COMPANY)

THREE MILE ISLAND NUCLEAR STATION)
UNIT NO. 1)

DOCKET NO. 50-289

APPLICANT'S RESPONSE TO THE ADDENDUM
TO THE SAFETY EVALUATION BY THE
DIVISION OF REACTOR LICENSING
UNITED STATES ATOMIC ENERGY COMMISSION

On page 7 of the Addendum to the Safety Evaluation by the Regulator Staff on the above-captioned proceeding, dated April 26, 1968, the Regulatory Staff stated that:

"... we will require that the applicant take into consideration the following points in the design of the fire protection systems.

- (1) The spray droplet size must be small to be effective and the spray must be checked for proper droplet size distribution periodically throughout the plant lifetime.
- (2) Location of the spray nozzles through the length and height of the tunnel must be such as to assure the requisite distribution of water spray over the entire tunnel volume.
- (3) Stratification of gases must be allowed for in the placement of combustible mixture detectors within the tunnel.
- (4) Further studies to show whether collection and combustion of gases in the exhaust hood could cause an overpressure which should be prevented by installation of a deluge system should be performed.
- (5) Attention must be given to obtaining and maintaining high quality detection instrumentation which would actuate the protective devices.

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In addition to the above, we believe that attention must be given in the final design to assure that rapid actuation of the deluge system is not prevented by other crash effects, such as an aircraft impact on the water tower which would remove the static pressure head on the system."

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The Applicant agrees that the final design of the fire protection systems will take into consideration the points set forth by the Regulatory Staff in the foregoing statement.

Ralph E. Needles

April 29, 1968

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