



METROPOLITAN EDISON COMPANY SUBSIDIARY OF GENERAL PUBLIC UTILITIES CORPORATION

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October 5, 1978
GQL 1593

Director of Nuclear Reactor Regulation
Attn: R. W. Reid, Chief
Operating Reactors Branch No. 4
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Dear Sir:

Three Mile Island Nuclear Station, Unit 1 (TMI-1)
Operating License No. DPR-50
Docket No. 50-289
Fire Protection Program

Attached please find the hose stretch test results and recommendations submitted in accordance with the commitment made in response to Position P6 in our letter of June 12, 1978 (GQL 1068). This submittal, due August 30, 1978, is tendered now per telecon between your Mr. G. B. Zwetzig and our Mr. R. J. Stevens.

Sincerely,

JG Herbein
J. G. Herbein
Vice President-Generation

JGH:WSS:cjg

Attachment

LPDR

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TMI-1 FIRE PROTECTION PROGRAM
HOSE STRETCH TEST RESULTS

Hose Stretch Tests have been performed per the commitment made in response to Position P6 in our letter of June 12, 1978 (GQL 1068). The results below are grouped by fire area, as defined in the Fire Hazards Analysis.

Auxiliary Building

The entire Auxiliary Building can be covered by an effective hose stream except 1) the room containing the decay heat service coolers and nuclear service heat exchangers (El. 271'), and 2) the portion of the room containing the miscellaneous waste storage tank and reactor coolant bleed tanks to the south of the A reactor coolant bleed tank (El. 271').

Of the two areas described above, the room containing the decay heat service coolers and nuclear service heat exchangers will have a fire hose reel installed by the end of the 1980 refueling outage (Fire Protection Safety Evaluation Report Item 3.1.2).

An additional hose station to cover the area south of the A reactor coolant bleed tank is unnecessary since no major fire hazard exists in the area due to low fire loading. The only safe shutdown equipment in the area is a B channel cable tray. Loss of the tray due to a fire would not prevent operation of safe shutdown equipment since the A channel circuits are routed through a different area.

Air Intake Tunnel

No fire hose reels are installed in the Air Intake Tunnel. However, this area is extensively covered by water deluge and Halon suppression systems. It is felt that this area is adequately covered without hose reels.

Control Building

The Control Building is not presently covered by fire hose reels. However, fire hose reels will be installed per Question Q9 in our letter of June 12, 1978 (GQL 1068).

Diesel Generator Building

There are no fire hose reels installed in the Diesel Generator Building. The building is adequately protected by sprinkler and deluge systems. A yard fire hydrant is located directly outside the building; additional equipment to back up the automatic systems will be provided in the associated hose house per the commitment made in our letter of September 21, 1978 (GQL 1538).

Fuel Handling Building

The Fuel Handling Building is covered in its entirety by installed hose reels.

Intermediate Building

The Intermediate Building is covered in its entirety by installed hose reels.

Intake Screen and Pump House

There are no fire hose reels installed in the Intake Screen and Pump House. The building is adequately protected by sprinkler and deluge systems. A yard fire hydrant is located near the building; additional equipment to back up the automatic systems will be provided in the associated hose house per the commitment made in our letter of September 21, 1978 (GQL 1538).

Reactor Building

The Reactor Building is not currently covered by manual hose reels. However, a study to investigate the feasibility of installing hose reels in the Reactor Building has been completed (Fire Protection Safety Evaluation Report Item 3.2.5). The results of the study indicate that it is possible; therefore, hose reels will be installed on all elevations in the Reactor Building. The design is currently under way and it is anticipated that Met-Ed will submit the design to the NRC for review and approval by February 16, 1979. Also, the hose house associated with the yard fire hydrant located near the equipment access hatch will be provided with additional fire fighting equipment per the commitment made in our letter of September 21, 1978(GQL 1538).

Summary

Commitments exist for fire hose reels to be added to 1) the room containing the decay heat service coolers and nuclear service heat exchangers in the Auxiliary Building; 2) all elevations but the 306' elevation of the Control Building; and 3) the Reactor Building. A commitment also exists to provide additional fire fighting equipment in the hose houses associated with hydrants near the Diesel Generator Building, the Intake Screen and Pump House, and the Reactor Building. When these modifications and additions are made, manual hose coverage will be considered adequate to protect equipment needed to achieve safe shutdown.