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Writer's Direct Dial Number

July 11, 1979  
GQL 0885

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

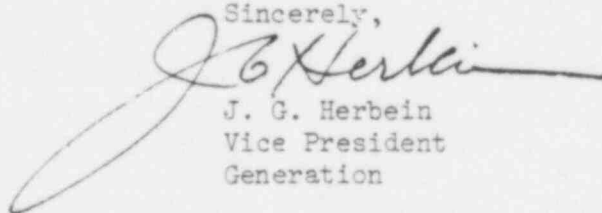
Dear Sir:

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

In compliance with Item 3.2.4, Adequacy of Detector System Design, of the TMI-1 Fire Protection Safety Evaluation Report, a study has been done to verify that the existing fire detection system, when supplemented with the proposed additions, will be adequate to detect a fire in a timely manner. Attached please find a summary of the results of the study. Based on these results Met-Ed believes that the fire detection system, when fully implemented, will be adequate.

It should be noted that the design for the proposed additions to the detection system was submitted to the NRC by our letter of March 16, 1979 (GQL 0393). Met-Ed requests NRC's approval of the design of the proposed additions and concurrence with our position that the existing detection system, when supplemented with the proposed additions, will be adequate to detect a fire in a timely manner.

Sincerely,



J. G. Herbein  
Vice President  
Generation

JGH:WSS:mrm  
Attachment

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Three Mile Island Nuclear Station, Unit 1 (TMI-1)  
Docket No. 50-289  
Summary of Fire Detection System Adequacy Study

Existing Detection System

The detectors in the existing system can be grouped by function:

1. Fire Suppression System Actuators

Detectors consist of smoke, heat, and ultraviolet units placed to conform with individual extinguishing system standards NFPA 12, 12A, 13 and 15.

2. Ventilation System Controls

Ionization-type smoke detectors are mounted in air ducts to comply with NFPA 90A.

3. General Area Alarms

Ionization-type smoke detectors are mounted in areas in conformance with NFPA 72D and 72E, or selectively located to monitor potential fire hazards as identified in the Fire Hazards Analysis.

Proposed Detection System

The detectors in the proposed additions can be grouped by location:

1. Reactor Building

A combination of detectors at identified fire hazards and detectors in the ventilation ducts will provide adequate coverage for the Reactor Building.

2. Intermediate, Auxiliary, and Fuel Handling Buildings:

Various safety-related areas in these buildings will be equipped with detectors in conformance with NFPA 72D and 72E.

See our letter of March 16, 1979 (GQL 0393) for further details.

Conclusion

The existing detection system, upon implementation of the proposed additions, will be adequate to detect a fire in a timely manner.