GPU Nuclear

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October 29, 1982
4410-82-L-0035

TMI Program Office
Attn: Mr. L. H. Barrett, Deputy Program Director
US Nuclear Regulatory Commission
c/o Three Mile Island Nuclear Station
Middletown, PA 17057-0191

Dear Sir:

Three Mile Island Nuclear Station, Unit 2 (TMI-2)
Operating License No. DPR-73
Docket No. 50-320
Recovery Operations Plan Change Request No. 20

The attached Recovery Operations Plan Change Request is submitted in order to provide an airborne particulate monitor for the Reactor Building atmosphere. The change will enable GPU to establish baseline data on the levels of airborne particulates in the containment.

If you have any questions or desire further information, please feel free to contact Mr. K. B. Swartzwelder of my staff.

Sincerely,

B. K. Kanga

B. K. Kanga
Director, TMI-2

BKK/RBS/jep

Attachment

CC: Dr. B. J. Snyder, Program Director - TMI Program Office

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Three Mile Island Nuclear Station, Unit 2 (TMI-2)
Operating License No. DPR-73
Docket No. 50-320

I. Recovery Operations Plan Change Request No. 20

The licensee requests that the attached pages, 4.3-1, 4.3-1a, and 4.3-3 of the Recovery Operations Plan replace the existing pages 4.3-1, 4.3-1a, and 4.3-3 of the Recovery Operations Plan.

II. Reason for Change

The attached request is being submitted as committed in GPU letter 4400-82-L-0010 dated September 15, 1982, to provide a requested means for monitoring airborne particulates conditions and trends inside the TMI-2 Reactor Building. This monitor will provide approximations of conditions and show significant changes in concentrations, but due to the design of the sampling system, it is not expected to yield accurate readings of the airborne particulate concentrations.

III. Safety Evaluation Justifying Change

The alarming particulate detector is being installed in order to establish baseline data for monitoring concentrations of airborne particulates in the Reactor Building.

The proposed monitor will be situated such that air will be sampled upstream of the purge filters to detect gross changes in containment airborne particulate radioactivity concentrations during purge operation. This location is suited for this purpose for the following reasons:

- There is good communication between Reactor Building elevations and the D-rings.
- Most systems which could cause an increase in airborne particulates are in the D-rings where the exhaust duct is located.
- Location of the sample downstream of the filters is ineffective due to the filters reducing particulate concentrations to less than LLD.

The installation of this air monitoring unit will provide the capability for remotely obtaining information about the Reactor Building air particulate quality. In addition, the monitor will provide the capability of sensing system upsets or major changes in airborne concentrations due to operational activities in containment.