

 **Nuclear**

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TMI-2 Cleanup Project Directorate
Attn: Dr. W. D. Travers
Director
US Nuclear Regulatory Commission
c/o Three Mile Island Nuclear Station
Middletown, PA 17057

Dear Dr. Travers:

Three Mile Island Nuclear Station, Unit 2 (TMI-2)
Operating License No. DPR-73
Docket No. 50-320
Operation of the Temporary Reactor Vessel Filtration System

The purpose of this letter is to advise you of the GPU Nuclear proposal to modify the manning requirements for the Temporary Reactor Vessel Filtration System (TRVFS) established in Reference 1. The reference required operations personnel to be stationed in the vicinity of the TRVFS during system operation. The intent of the requirement was to ensure a rapid response in the event of a system malfunction or a filter radiation monitor indication of potential buildup of significant quantities of fuel in the filter. Operational experience has indicated high system reliability and an extremely small likelihood of a buildup of significant quantities of fuel.

Based on the experience gained to date with the TRVFS, GPU Nuclear is proposing to modify the manning requirement to allow the system to be monitored and shutdown remotely. This change would allow for longer periods of system operation and reduce the man-rem expended for operation of the system. The radiation monitor indicator and pressure gauge on the TRVFS filter would be reoriented such that the indicators can be read by CCTV cameras 8 and/or 9. Additionally, an alarming air sampler in the area of the TRVFS will be visible by a CCTV and will aid in leak detection by sensing increased airborne radioactivity levels.

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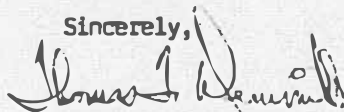
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The power feed to the TRVFS would be modified to provide a remote shutdown switch at the SDS control station in addition to the local control switch. The remote shutdown circuit will use the circuitry currently in use for the Reactor Building Jet Pump (RBJ-P-1). Both the command center and SDS control panel will be manned during TRVFS operation. If either the command center or SDS station is unmanned (i.e., no operations personnel in the immediate vicinity) or there is no operator in the Reactor Building, the TRVFS would be shutdown.

By providing the described monitoring and controls, the intent of the TRVFS SER can be met without expending the man-rem associated with stationing an operator in the Reactor Building during system operation. Thus, the proposed change is bounded by Reference 1 and can be performed without undue risk to the health and safety of the public. GPU Nuclear will update the TRVFS Safety Evaluation Report to reflect this change, as appropriate.

Sincerely,

F. R. Standerfer
Vice President/Director, TMI-2

FRS/RBS/eml

Attachment

REFERENCES

1. Safety Evaluation Report for TMI-2 Temporary Reactor Vessel Filtration System, Revision 2, GPU Nuclear letter 4410-86-L-0063 dated April 14, 1986