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November 16, 1982
NRC/TMI-82-068

Docket No. 50-320

Mr. B. K. Kanga
Director, TMI-2
GPU Nuclear Corporation
P. O. Box 480
Middletown, PA 17057

Dear Mr. Kanga:

Subject: Once Through Steam Generator (OTSG) Layup Recirculation System

The NRC staff has reviewed your Technical Evaluation Report (TER) for the installation and operation of the OTSG layup recirculation system (4400-82-L-0098, dated July 21, 1982). The purpose of this system is to establish and maintain the necessary secondary side water chemistry conditions for long-term OTSG storage. This layup system will also be utilized to remove the identified radioactive materials in the OTSG "2B".

The staff concurs that adequate radiological controls (viz., shielding, leak collection devices and radiation monitoring) have been considered in your plan to remove the relatively low radiocesium (¹³⁷Cs and ¹³⁴Cs) activity (10⁻⁴ uCi/cc) and that no measurable airborne releases (particulate or gaseous) are expected during system operations. Sufficient pathway controls and monitoring exist to prevent the occurrence of inadvertent liquid releases and, the residual radioactivity in the "2B" OTSG can be safely collected and disposed of on ion exchange resins in a 4' x 4' liner or similar type container.

The staff also agrees that core cooling effects should be negligible during the addition of water to both OTSGs and the operation of the recirculating system. Adequate safety margins exist with the use of the 600 psi pressure class flanges and isolation valves in order to ensure system integrity and containment isolation requirements are met. Additionally, operational controls will be established to ensure that reactor coolant system (RCS) water level and pressure will be maintained so that secondary water leakage to the RCS cannot occur.

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Based on our findings, the staff approves your Technical Evaluation Report for the proposed use of the OTSG layup and recirculation system. We require the submittal of detailed system operation procedures (per Technical Specification section 6.8.2) before final approval is given for system operation.

Original signed by
Lake H. Barrett
Lake H. Barrett
Deputy Program Director
TMI Program Office

cc: J. J. Barton
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