March 18, 1986
NRC/TMI BS-005

Docket No. 50-320

Mr. F. R. Standerfer
Vice President/Director, TMI-2
GPU Nuclear Corporation
P. O. Box 490
Middletown, PA 17057

Dear Mr. Standerfer:

Subject: TMI-2 "Temporary Reactor Vessel Filtration System"

References: (a) GPU1 letter, F. R. Standerfer to W. D. Travers, TMI-2 Temporary Reactor Vessel Water Filtration System", 4410-35-L-0029, dated February 5, 1986
(b) NRC letter W. D. Travers to F. R. Standerfer "Safety Evaluation Report for the TRWFS" NRC/TMI 86-015 dated February 7, 1986
(c) GPU1 letter F. R. Standerfer to W. D. Travers, "TMI-2 Temporary Reactor Vessel Water Filtration System - Revision 1", 4410-86-L-0047, dated March 6, 1986
(d) GPU1 letter F. R. Standerfer to B. J. Snyder with attached "Reactor Coolant System Criticality Report" 4410-81-L-0199 dated November 8, 1984
(e) NRC letter B. J. Snyder to F. R. Standerfer re "Reactor Coolant System Criticality Report" dated March 15, 1985

Reference (a) submitted the Safety Evaluation Report (SER) for the TMI-2 Temporary Reactor Vessel Water Filtration System (TRWFS) to the NRC staff for approval. The NRC staff safety evaluation and approval were documented in reference (b). Reference (c) forwarded a revised SER for the system for review and approval.

We have reviewed the revised SER and we approve continued operations of the system with certain restrictions and administrative controls as discussed below. Following further discussions between our staffs, information transfer regarding fission product transport assumptions and dose conversion factors and NRC staff review of this area we may remove these restrictions.

The only sources of water passing through or contained in the TRWFS including the waste storage drum are borated to greater than 4350 ppm B. These sources, the reactor coolant system (RCS) and borated water storage tank BHST, are maintained at a nominal 500 ppm B with a technical specification minimum of
4350 ppm B. References (d) and (e) provide a bounding criticality safety evaluation and NRC approval of a configuration much more restrictive than any attainable by the TRWIFS, provided that the greater than 4350 ppm B condition is met.

The following restrictions apply to the continued operation of the TRWIFS:

(1) Only sources of water containing ≥ 4350 ppm B may be processed through or stored in the TRWIFS.

(2) The waste storage drum must be sampled and analyzed for fissile material content prior to solidification or transfer to another container or system.

System operating procedures and procedures delineating waste storage drum sampling and analysis are subject to approval per Technical Specification 6.8.2.

Sincerely,

[Signature]

William D. Travers
Director
THI-2 Cleanup Project Directorate

cc: T. F. Demmitt
R. E. Rogen
S. Levin
M. H. Linton
J. J. Byrne
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Service Distribution List
(see attached)