DISTRIBUTION:
DN 50-320
NRC PDR
Local PDR
DCS
TMI HQ r/f
TMI Site r/f
WDTravers
MTMasnik
RCook
CCowgill
LChandler
IE
ACRS
M-town Office
Service List

March 18, 1986
NRC/TMI 86-086

Docket No. 50-320

Mr. F. R. Standerfer
Vice President/Director, TMI-2
GPU Nuclear Corporation
P. O. Box 480
Middletown, PA 17057

Dear Mr. Standerfer:

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

References: (a) GPUN letter, F. R. Standerfer to W. D. Travers, TMI-2 Temporary Reactor Vessel Water Filtration System", 4410-86-L-0029, dated February 6, 1986
(b) NRC letter W. D. Travers to F. R. Standerfer "Safety Evaluation Report for the TRVWFS" NRC/TMI 86-015 dated February 7, 1986
(c) GPUN 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) GPUN letter F. R. Standerfer to B. J. Snyder with attached "Reactor Coolant System Criticality Report" 4410-84-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 (TRVWFS) 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 TRVWFS 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 BWST, are maintained at a nominal 5000 ppm B with a technical specification minimum of

OFFICE ▶							
SURNAME ▶							
DATE ▶							

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 TRVWFS, provided that the greater than 4350 ppm B condition is met.

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

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

(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,

ORIGINAL SIGNED BY:
William D. Travers

William D. Travers
Director
TMI-2 Cleanup Project Directorate

cc: T. F. Demitt
R. E. Rogan
S. Levin
W. H. Linton
J. J. Byrne
A. W. Miller
Service Distribution List
(see attached)

OFFICE ▶	TMICPD	TMICPD	TMICPD				
SURNAME ▶	LThonus:wa	Ac.Chf. T.S.	WDTravers				
DATE ▶	3/18/86	3/18/86	3/18/86				