

DISTRIBUTION:

DN 50-320
NRC PDR
Local PDR
TMI Site r/f
TMI HQ r/f
DCS
FJMiraglia
WDTravers
MTMasnik
CCowgill
TMoslak
LChandler
ACRS
I&E
N-Town Office
Service List

September 11, 1986
NRC/TMI 86-091

Docket No. 50-320

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

Dear Mr. Standerfer:

Subject: Recovery Operations Plan Change No. 35

Reference: Letter from F. R. Standerfer to W. D. Travers, 4410-86-L-0129
dated August 18, 1986 (ROP Change Request 39)

The referenced letter proposed additions to the Recovery Operations Plan requirements to include calibration and operability requirements of additional criticality monitors in the reactor building. The change was submitted to support defueling operations.

Based on our enclosed safety evaluation we have concluded that the proposed changes will not present an undue risk to the health and safety of the public. We therefore approve the proposed changes and are enclosing the amended pages for Recovery Operations Plan Change No. 35.

Sincerely,

ORIGINAL SIGNED BY:
William D. Travers

William D. Travers
Director
TMI-2 Cleanup Project Directorate

8609170358 860711
PDR ADOCK 05000320
P PDR

Enclosure: As stated

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

OFFICE	TMICPD	TMIHQ	TMIHQ			
SURNAME	L.Thonus:wa	Ad.Ch.T.S.	WDTravers			
DATE	9/11/86	9/11/86	9/11/86			

ATTACHMENT
SAFETY EVALUATION

Introduction

During defueling the licensee intends to place end fittings in shielded 55 gallon drums which will be inside an overpack container. The drums will be transferred to and placed in a storage area adjacent to the west "D" ring on the 347 ft. elevation of the reactor building. As tooling and methodologies are developed the end fittings will be sized to fit through the openings in defueling canisters and ultimately transferred offsite. There may be some fuel attached to or packed in flow spaces in the end fittings. Since the accumulated fuel contained in a drum or several drums could exceed 450 grams of combined uranium-235, uranium-233 and plutonium criticality monitoring is required per 10 CFR 70.24.

Evaluation

The licensee proposed to add two criticality monitors to cover the end fitting storage area. The monitors meet the requirements of 10 CFR 70.24. The attached surveillance requirements for these detectors are the same as the surveillance requirements for the existing criticality monitors in the reactor and fuel handling building and are the same as the surveillance requirements in the standard B&W Technical Specifications (NUREG 0103).

Conclusion

The proposed monitoring system meets the requirements of 10 CFR 70.24. The monitoring system will enhance safety by alerting personnel if a criticality event were to occur. The change will not result in any environmental effects and falls within the scope of activities previously considered in the Programmatic Environmental Impact Statement.

8609170362 860911
PDR ADOCK 05000320
P PDR

RADIATION MONITORING INSTRUMENTATION SURVEILLANCE REQUIREMENTS

NOTES:

11. During either of the following operations:
 - a. Handling of canisters containing core material.
 - b. Handling of any heavy load over canisters containing core materials.
12. With less than one channel operable, terminate the following operations:
 - a. Handling of canisters containing core material. *
 - b. Handling of any heavy load over canisters containing core material.
13. With the required monitor inoperable, secure the ventilation system and suspend all operations involving movement of radioactive materials or generation of airborne contamination until the inoperable monitor is restored to operable status.
14. During periods when personnel are in the containment and end fittings are being transferred to or stored in their designated location outside the Reactor Vessel.
15. With less than one channel operable, terminate the following operations:
 - a. Handling of end fitting storage containers outside the Reactor Vessel.**
 - b. Handling of any heavy load over the end fitting storage container area.

* This shall not prohibit placing a canister in transit in a safe storage location.

**This shall not prohibit placing an end fitting storage container in transit in a safe storage location.

TABLE 4.3-3 (Cont'd)

RADIATION MONITORING INSTRUMENTATION SURVEILLANCE REQUIREMENTS

FUNCTIONAL UNIT	CHANNEL CHECK	CHANNEL CALIBRATION	CHANNEL FUNCTIONAL TEST	CHANNELS OPERABLE	APPLICABILITY	ACTION
5. FUEL TRANSFER CANAL						
a. Criticality Monitor	S	R	M	1	Note 11	Note 12
6. FUEL POOL "A"						
a. Criticality Monitor	S	R	M	1	Note 11	Note 12
7. FUEL HANDLING BUILDING TRUCK BAY						
a. Criticality Monitor	S	R	M	1	Note 11	Note 12
8. WASTE HANDLING AND PACKAGING FACILITY						
a. Exhaust Monitor	D	SA	W	1	Note 1	Note 13
9. REACTOR BUILDING						
a. End Fitting Storage Area Criticality Monitor	S	R	M	1	Note 14	Note 15

(See following pages for Notes.)

TMI-2 SERVICE LIST

Dr. Thomas Murley
Regional Administrator
U.S. Nuclear Regulatory Commission
631 Park Avenue
King of Prussia, PA 19406

John F. Wolfe, Esq., Chairman
Administrative Judge
Atomic Safety and Licensing Board Panel
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Dr. Oscar H. Paris
Administrative Judge
Atomic Safety and Licensing Board Panel
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Dr. Frederick H. Shon
Administrative Judge
Atomic Safety and Licensing Board Panel
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Dr. Judith H. Johnsrud
Environmental Coalition on Nuclear Power
433 Orlando Avenue
State College, PA 16801

Ernest L. Blake, Jr., Esq.
Shaw, Pittman, Potts, and Trowbridge
1800 M. Street, NW
Washington, D.C. 20036

Atomic Safety and Licensing Board Panel
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Secretary
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Frederick S. Rice, Chairman
Dauphin County Board of Commissioners
Dauphin County Courthouse
Front and Market Streets
Harrisburg, PA 17101

Thomas M. Gerusky, Director
Bureau of Radiation Protection
Department of Environmental Resources
P.O. Box 2063
Harrisburg, PA 17120

Ad Crable
Lancaster New Era
8 West King Street
Lancaster, PA 17601

Willis Bixby, Site Manager
U.S. Department of Energy
P.O. Box 88
Middletown, PA 17057-0311

David J. McGoff
Office of LWR Safety and
Technology
NE-23
U.S. Department of Energy
Washington, D.C. 20545

William Lochstet
104 Davey Laboratory
Pennsylvania State University
University Park, PA 16802

Frank Lynch, Editorial
The Patriot
812 Market Street
Harrisburg, PA 17105

Robert B. Borsum
Babcock & Wilcox
Nuclear Power Division
Suite 220
7910 Woodmont Avenue
Bethesda, MD 20814

Michael Churchhill, Esq.
PILCOP
1315 Walnut Street, Suite 1632
Philadelphia, PA 19107

Marvin I. Lewis
7801 Roosevelt Blvd. #62
Philadelphia, PA 19152

Jane Lee
183 Valley Road
Etters, PA 17319

Walter W. Cohen, Consumer
Advocate
Department of Justice
Strawberry Square, 14th Floor
Harrisburg, PA 17127

Mr. Edwin Kintner
Executive Vice President
General Public Utilities
Nuclear Corporation
100 Interpace Parkway
Parsippany, NJ 07054

US Environmental Prot. Agency
Region III Office
ATTN: EIS Coordinator
Curtis Building (Sixth Floor)
6th and Walnut Streets
Philadelphia, PA 19106