

#### 4.6 EMERGENCY POWER SYSTEM PERIODIC TESTS

Applicability: Applies to periodic testing and surveillance requirement of the emergency power system.

Objective: To verify that the emergency power system will respond promptly and properly when required.

Specification:

The following tests and surveillance shall be performed as stated:

##### 4.6.1 Diesel Generators

- a. Manually-initiate start of the diesel generator, followed by manual synchronization with other power sources and assumption of load by the diesel generator up to the name-plate rating (3000 kw). This test will be conducted every month on each diesel generator. Normal plant operation will not be effected.
- b. Automatically start and loading the emergency diesel generator in accordance with Specification 4.5.1.1.b/c including the following. This test will be conducted every refueling interval on each diesel generator.
  - (1) Verify that the diesel generator starts from ambient condition upon receipt of the ES signal and is ready to load in  $\leq 10$  seconds.
  - (2) Verify that the diesel block loads upon simulated loss of offsite power in  $\leq 30$  seconds.
  - (3) The diesel operates with the permanently connected and auto connected load for  $\geq 5$  minutes.
  - (4) The diesel engine does not trip when the generator breaker is opened while carrying emergency loads.
  - (5) The diesel generator block loads and operates for  $\geq 5$  minutes upon reclosure of the diesel generator breaker.
- c. Each diesel generator shall be given an inspection at least annually in accordance with the manufacturer's recommendations for this class of stand-by service.

##### 4.6.2 Station Batteries

- a. The voltage, specific gravity, and liquid level of each cell will be measured and recorded every 92 days and once within 24 hours after a battery discharge  $< 105$  V and once within 24 hours after a battery overcharge  $> 150$  V.
- b. The voltage and specific gravity of a pilot cell will be measured and recorded weekly.
- c. Each time data is recorded, new data shall be compared with old to detect signs of abuse or deterioration.

#### D. Battery Cell Surveillance Requirements

The current TMI-1 Technical Specifications contain a SR (4.6.2.a) that requires that the voltage, specific gravity, and liquid level of each cell will be measured and recorded monthly. The proposed change would extend the surveillance interval to three months and add checks following battery discharge or battery overcharge events. The quarterly checks of liquid level, specific gravity, and voltage are consistent with IEEE-450 and the RSTS. In addition to quarterly checks there are requirements to check, within 24 hours of a severe battery discharge  $< 105$  V or a battery overcharge  $> 150$  V, the battery voltage, specific gravity, and liquid level. The checks following a severe battery discharge or overcharge are also consistent with IEEE-450, which recommends such checks following a severe discharge or overcharge, to ensure that no significant degradation of the battery occurs as a consequence. Based on discussions with a C&D Batteries representative (the Station Battery Vendor) and our review, these changes would provide additional assurance of long term battery reliability.

Thus, revision of the surveillance frequency for Battery Cell voltage, specific gravity, and liquid level to that specified by RSTS is justified.

#### IV. NO SIGNIFICANT HAZARDS CONSIDERATION

GPU Nuclear has determined that this Technical Specification Change Request involves no significant hazards consideration as defined by NRC in 10 CFR 50.92 because:

1. Operation of the facility in accordance with the proposed amendment would not involve a significant increase in the probability of occurrence or the consequences of an accident previously evaluated. The proposed amendment involves changes to the TMI-1 Technical Specifications which are consistent with the B&W Standard Technical Specifications (STS) NUREG-1430. This change does not involve any change to system or equipment configuration. The proposed amendment revises certain surveillance requirements, or extends certain surveillance intervals. The reliability of systems and components relied upon to prevent or mitigate the consequences of accidents previously evaluated is not degraded by the proposed changes. Therefore, this change does not involve a significant increase in the probability of occurrence or the consequences of an accident previously evaluated.

UNITED STATES OF AMERICA  
NUCLEAR REGULATORY COMMISSION

IN THE MATTER OF  
GPU NUCLEAR CORPORATION

DOCKET NO. 50-289  
LICENSE NO. DPR-50

CERTIFICATE OF SERVICE

This is to certify that a revised page to Technical Specification Change Request No. 254, to Appendix A of the Operating License for Three Mile Island Nuclear Station Unit 1, has, on the date given below, been filed with executives of Londonderry Township, Dauphin County, Pennsylvania; Dauphin County, Pennsylvania; and the Pennsylvania Department of Environmental Resources, Bureau of Radiation Protection, by deposit in the United States mail, addressed as follows:

Mr. Jay H. Kopp, Chairman  
Board of Supervisors of  
Londonderry Township  
R.D. #1, Geyers Church Road  
Middletown, PA 17057

Mr. Russell L. Sheaffer, Chairman  
Board of County Commissioners  
of Dauphin County  
P.O. Box 1295  
Harrisburg, PA 17108

Director, Bureau of Radiation Protection  
PA Department of Environmental Resources  
P.O. Box 2063  
Harrisburg, PA 17120  
ATTN: Mr. Stan P. Maingi

GPU NUCLEAR CORPORATION

BY: 

Vice President and Director, TMI

DATE: Dec 21, 1995



GPU Nuclear Corporation  
Route 441 South  
P.O. Box 480  
Middletown, Pennsylvania 17057-0480  
(717) 944-7621  
Writer's Direct Dial Number:

(717) 948-8005

December 21, 1995  
C311-95-2531

Mr. Jay H. Kopp, Chairman  
Board of Supervisors of  
Londonderry Township  
R.D. #1, Geyers Church Road  
Middletown, PA 17057

Dear Mr. Kopp:

Enclosed please find a revised page to Technical Specification Change Request No. 254, to the Operating License for Three Mile Island Nuclear Station, Unit 1.

This request was filed with the U. S. Nuclear Regulatory Commission on the above date.

Sincerely,

A handwritten signature in dark ink, appearing to read "J. Knubel", written over the typed name and title.

J. Knubel  
Vice President and Director, TMI

awm

Enclosure



**GPU Nuclear Corporation**

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P.O. Box 480  
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Mr. Russell L. Sheaffer, Chairman  
Board of County Commissioners of  
Dauphin County  
P.O. Box 1295  
Harrisburg, PA 17108

Dear Mr. Sheaffer:

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This request was filed with the U. S. Nuclear Regulatory Commission on the above date.

Sincerely,

A handwritten signature in dark ink, appearing to read "J. Knubel", written over a horizontal line.

J. Knubel  
Vice President and Director, TMI

awm



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Director, Bureau of Radiation Protection  
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P.O. Box 2063  
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ATTN: Mr. Stan P. Maingi

Dear Mr. Maingi:

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This document was filed with the U. S. Nuclear Regulatory Commission on the above date.

Sincerely,

A handwritten signature in dark ink, appearing to read "J. Knubel", with a large, sweeping loop at the end.

J. Knubel  
Vice President and Director, TMI

awm

Enclosure