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Grand Gulf Nuclear Station

March 17, 1995

U.S. Nuclear Regulatory Commission
Mail Station P1-37
Washington, D.C. 20555

Attention: Document Control Desk

Subject: Grand Gulf Nuclear Station
Docket No. 50-416
License No. NPF-29
Simulator Certification Update in Accordance with 10CFR55.45

GNRO-95/00029

Gentlemen:

This submittal contains an update to our original certification of the Grand Gulf Nuclear Station simulation facility in accordance with the requirements of 10CFR55.45(b)(5). This report contains a description of the previous four years of performance tests, any uncorrected performance test failures with a schedule for correcting any such failures, a schedule for the next four years of planned performance tests, and a description of other testing performed following simulator modifications.

In accordance with the requirements of 10CFR55.45(b)(5), Entergy Operations will submit a similar report approximately four years from this date.

Please contact Brian Blanche at 601-437-6475 should you have questions or need any additional information.

Yours truly,

CRH/RSJ/amb

attachment: Simulator Certification Update in Accordance with 10CFR55.45
cc: (See Next Page)

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A. Summary of Major Changes Since Last Submittal

1. General

- a. The Grand Gulf simulator was upgraded by General Physics International over the 1991 - 1994 time period. Training commenced with the new models in March 1994.
- b. The following simulator back panels were added by this upgrade:

1H13-P610 - Control Rod Test Instrument Panel Note: Only the RPS power supply and transfer portion of this panel are functional)
1H13-P845 - Offgas Panel
1H13-P631 - Division 2 ADS Panel
- c. The following major models were replaced:

Core Thermohydraulics and Neutronics Model
Reactor Recirculation System
Main Steam
Turbine
Condenser
Condensate System
Feedwater System
Containment and Drywell
- d. An offgas system model was added.
- e. Radiation transport was added to all major models.
- f. An advanced instructor station was added. The instructor booth was modified to visually isolate and sound proof the booth from the simulated control room.
- g. The telephone system was replaced.

B. Future changes

1. General

- a. Simulation of the plant BOP computer is in process of being upgraded in accordance with the Plant Data System upgrade being implemented in the plant control room.

C. Description of the Previous Four Years of Performance Testing

- 1. The transient tests, malfunction tests, steady state tests and computer real time test were all completed as stated in the March 1991 submittal with no failures.

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D. Uncorrected Performance Test Failures and Schedule for Correction

1. Documented simulator discrepancies are corrected based upon training impact. Currently there are no test discrepancies which seriously impact licensed operator training.

E. Schedule for the Next Four Years of Performance Tests

1. All transient tests, steady state tests and the computer real time test will be performed annually.
2. Approximately one-fourth of the malfunction tests will be performed each year as follows:

a. 1995 - Malfunctions in the following systems:

Reactor Recirculation system
Control Rod Drive (CRD Hydraulic and RC&IS)
Standby Liquid Control System
Neutron Monitoring System
Vessel Instrumentation
Reactor Water Cleanup

b. 1996 - Malfunctions in the following systems:

Reactor Protection System
Reactor Core Isolation Cooling (RCIC)
Residual Heat Removal System
Low Pressure Core Spray
High Pressure Core Spray
Leak Detection
Main Steam System and Safety Relief Valves

c. 1997 - Malfunctions in the following systems:

Condensate and Feedwater systems
Radiation Monitoring
Turbine and Turbine Control
Turbine Lube Oil
Generator and Generator Auxiliaries
Circulating Water system

d. 1998 - Malfunctions in the following systems:

Heating Ventilation and Cooling systems
Offgas system
Electrical Distribution System (AC and DC)
Annunciator System
Standby Service Water
Plant Service Water
Turbine Building Cooling Water
Component Cooling Water
Instrument Air

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- F. Other testing performed following simulator modifications and deficiency resolutions
1. Malfunctions and other simulator features are added, modified, or deleted as determined by training needs, industry events, or the plant design change process. Retests which may include portions of the affected tests may include several tests depending on the problem resolution.