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March 1, 2001

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

Attention: Document Control Desk

Subject: Grand Gulf Nuclear Station  
Unit 1  
Docket No. 50-416  
License No. NPF-29  
2000 Annual Operating Report

GNRO-2001/00018

Ladies and Gentlemen:

Entergy Operations, Inc. is transmitting the Grand Gulf Nuclear Station (GGNS) Unit 1 Annual Operating Report for 2000. This report is in accordance with the reporting program described in Regulatory Guide 1.16, Revision 4, Part C.1.b as modified by the NRC letter to GGNS dated May 25, 1987 (MAEC-87/0131).

Provided as attachments are:

1. A narrative summary of operating experience during the year 2000,
2. Main Steam Line Safety Relief Valve challenges,
3. A tabulated annual report of personnel exposure greater than 100 mrem/yr, and
4. A summary of failed fuel indications/inspections.

This letter does not contain any commitments.

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If you have any questions, please contact this office.

Yours truly,



JEV/AMT

- attachments:
1. Summary Of Operating Experience - 2000
  2. Main Steam Safety Relief Valve Challenges - 2000
  3. Man-rem Exposure - 2000
  4. Failed Fuel Indications/Inspections - 2000

cc:

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**ATTN: ADDRESSEE ONLY**

## 2000 SUMMARY OF OPERATING EXPERIENCE

The following is a summary of Grand Gulf Nuclear Station (GGNS) Unit 1 operating experience for the 2000 calendar year. During 2000, the reactor was critical for 8,731.3 hours with the generator on line for 8,635.0 hours.

On 12/30/99, For prudence, reactor power was reduced to approximately 80% for Y2K rollover. Duration time – 0 hours.

On 1/22/00, Generator taken off line at low reactor power to rework main generator "B" transformer bushing. Duration time – 14.3 hours.

On 1/24/00, Generator taken off line again at low reactor power to repair main generator transformer bushings. Duration time – 54.7 hours.

On 9/15/00, Reactor automatically scrammed @0630 hour when the load-reject relay picked up a grid disturbance caused by Baxter Wilson line tripping offline upon a breaker failure, and initiated closure of the main control valves. Full-power, steady operation was resumed on 9/23/00. Duration time – 80.1 hours.

On 11/4/00, Core thermal power reduced to approximately 65% for control rod sequence exchange. Condensate Booster Pump "C" taken out of service for replacing the pump seal while at low power. Duration time – 0 hours.

## **2000 MAIN STEAM SAFETY RELIEF VALVE CHALLENGES**

There were no main steam line safety relief valve challenges occurring in 2000.

## **GGNS UNIT 1 ANNUAL REPORT**

### **MAN-REM EXPOSURE-2000**

This section contains a tabulation of the number of station, utility and other personnel receiving exposures greater than 100 mrem/year and their associated man-rem exposure according to work and job function. Also included is a tabulation of the number of personnel by exposure range.

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Regulatory Guide 1.16 Information  
End of Year Report 2000

Work and Job Function	Number of Personnel > 100 mrem			Total man-rem *		
	Station	Utility	Contractor	Station	Utility	Contractor
<b>ROUTINE OPERATIONS AND SURVEILLANCE</b>						
MAINTENANCE AND CONSTRUCTION	0	0	0	0.056	0.000	0.100
OPERATIONS	25	0	0	5.626	0.001	0.103
HEALTH PHYSICS	7	0	0	2.050	0.000	0.110
SUPERVISORY	0	0	0	0.203	0.002	0.134
ENGINEERING	0	0	0	0.295	0.001	0.038
<b>ROUTINE PLANT MAINTENANCE</b>						
MAINTENANCE AND CONSTRUCTION	24	0	9	7.915	0.000	2.718
OPERATIONS	1	0	0	0.682	0.000	0.059
HEALTH PHYSICS	5	0	0	1.481	0.000	0.115
SUPERVISORY	0	0	0	0.081	0.002	0.000
ENGINEERING	1	0	0	0.242	0.000	0.004
<b>INSERVICE INSPECTION</b>						
MAINTENANCE AND CONSTRUCTION	0	0	0	0.002	0.000	0.000
OPERATIONS	0	0	0	0.000	0.000	0.000
HEALTH PHYSICS	0	0	0	0.000	0.000	0.000
SUPERVISORY	0	0	0	0.000	0.000	0.000
ENGINEERING	0	0	0	0.000	0.000	0.000
<b>SPECIAL PLANT MAINTENANCE</b>						
MAINTENANCE AND CONSTRUCTION	6	0	14	1.531	0.000	5.835
OPERATIONS	0	0	0	0.038	0.000	0.060
HEALTH PHYSICS	3	0	0	0.945	0.000	0.000
SUPERVISORY	0	0	0	0.097	0.000	0.000
ENGINEERING	0	0	0	0.055	0.000	0.000
<b>WASTE PROCESSING</b>						
MAINTENANCE AND CONSTRUCTION	0	0	0	0.237	0.000	0.003
OPERATIONS	2	0	1	0.775	0.000	0.195
HEALTH PHYSICS	1	0	0	0.620	0.000	0.125
SUPERVISORY	0	0	0	0.000	0.000	0.000
ENGINEERING	0	0	4	0.054	0.000	1.106
<b>REFUELING</b>						
MAINTENANCE AND CONSTRUCTION	0	0	0	0.000	0.000	0.000
OPERATIONS	0	0	0	0.000	0.000	0.000
HEALTH PHYSICS	0	0	0	0.000	0.000	0.000
SUPERVISORY	0	0	0	0.000	0.000	0.000
ENGINEERING	0	0	0	0.000	0.000	0.000
<b>Totals</b>						
MAINTENANCE AND CONSTRUCTION	30	0	23	9.741	0.000	8.656
OPERATIONS	28	0	1	7.121	0.001	0.417
HEALTH PHYSICS	16	0	0	5.096	0.000	0.350
SUPERVISORY	0	0	0	0.381	0.004	0.134
ENGINEERING	1	0	4	0.646	0.001	1.148
<b>Grand Totals</b>	<b>75</b>	<b>0</b>	<b>28</b>	<b>22.985</b>	<b>0.006</b>	<b>10.705</b>

\* The total radiation exposure of the above personnel constitutes 100% of the site's exposure for the year.

## Special Plant Maintenance for 2000

Description	Person-rem
Leak investigation and Furmanite of plant components	6.642
O/G loop seal clean out	0.010
Seal Steam Generator Repair	0.219
RHR Grating Repair	0.065
SLC tank repair	0.040
ERs, DCP, MCP work activities	1.442
Fire watch Due to conduit seal problems	0.059
Total	8.477

## 2000 FAILED FUEL INDICATIONS/INSPECTIONS

Cycle 10 startup and steady-state data indicate there are no fuel failures in the Grand Gulf core.