

March 1, 2002

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

Attention:

Document Control Desk

Subject:

2001 Annual Operating Report

Grand Gulf Nuclear Station

Unit 1

Docket No. 50-416 License No. NPF-29

GNRO-2002/00019

Ladies and Gentlemen:

Entergy Operations, Inc. is transmitting the Grand Gulf Nuclear Station (GGNS) Unit 1 Annual Operating Report for 2001. 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 2001,
- 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 Charles A. Bottemiller at (601) 437-6299 or Ann M. Townsend at (601) 437-6486.

Yours truly,

Rita R. Jackson yn Charles A. Bottemiller

Manager, Plant Licensing

AMT:amt

attachments:

- 1. Summary Of Operating Experience 2001
- 2. Main Steam Safety Relief Valve Challenges 2001
- 3. Person-rem Exposure 2001
- 4. Failed Fuel Indications/Inspections 2001

CC:

Hoeg	T. L.	(GGNS Senior Resident)	(w/a)
Levanway	D. E.	(Wise Carter)	(w/a)
Reynolds	N. S.		(w/a)
Smith	L. J.	(Wise Carter)	(w/a)
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2001 SUMMARY OF OPERATING EXPERIENCE

The following is a summary of Grand Gulf Nuclear Station (GGNS) Unit 1 operating experience for the 2001 calendar year. During 2001, the reactor was critical for 8,147.9 hours with the generator on line for 8,041.1 hours.

Date	Cause & Corrective Action	Duration Time
02/06/01	Core thermal power reduced to approximately 70% to take Heater Drain Pumps out of service for repairing the pump discharge header sample line break and power maintained at that level until 02/08/01 afternoon for repairing pump discharge valve (N23F520A) leak.	0 hours
04/13/01	Core thermal power was reduced first and then reactor manually scrammed @2000 to shut down for Refueling #11.	412.0 hours
05/01/01	Refueling #11 continued until synchronization to grid on 05/05/01. Steady, full-power operation was reached on 05/08/01.	109.7 hours
08/07/01	Reactor automatic scram occurred at approximately 2017 upon fast CV closure when load reject relay picked up grid perturbation caused by Baxter Wilson plant tripping off grid because of lightning induced fire in switchyard. The startup was somewhat delayed because the End-Of-Cycle Recirculation Pump Trip did not function as required. Also, startup and subsequent operating data on Recirculation Pump "B" seal performance prompted a management decision to schedule a plant shutdown on 09/06/01 to replace RP "B" seal.	41.5 hours
08/23/01	Continued degradation in RP "B" seal performance caused increasing leakage flow and pump vibration, and prompted a conservative decision from Management to advance the schedule for shutdown to replace the seal. Reactor manually scrammed at approximately 0528. Synchronized back to grid on 08/27/01 at approximately 1117 after seal replacement.	101.8 hours
08/29/01	Problem with "A" Recirculation FCV Rotary Variable Differential Transformer (RVDT) prevented power ascension after shifting to high speed during startup following the RP "B" seal outage. The reactor was manually scrammed to shut down for repairing "A" Recirc FCV RVDT.	54.0 hours

2001 MAIN STEAM SAFETY RELIEF VALVE CHALLENGES

There were no main steam line safety relief valve challenges occurring in 2001.

GGNS UNIT 1 ANNUAL REPORT

PERSON-REM EXPOSURE-2001

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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Entergy Operations, Inc. Grand Gulf Nuclear Station P.O. Box 756 Port Gibson, MS. 39150 LICENSE: NPF-29

Regulatory Guide 1.16 Information End of Year Report 2001

Number of Personnel > 100 mrem Total man-rem * Station Utility Contractor Station Utility Contractor Work and Job Function ROUTINE OPERATIONS AND SURVEILLANCE 0.048 0.364 0 0.112 MAINTENANCE AND CONSTRUCTION 0 0 37 2 9.428 0.414 0.871 1 OPERATIONS 4.676 3.363 1,430 HEALTH PHYSICS 18 11 3 0.276 0.545 0.654 SUPERVISORY 0 0 1 0.006 0.009 0 0 0 0.682 ENGINEERING ROUTINE PLANT MAINTENANCE 67.052 MAINTENANCE AND CONSTRUCTION 85 29 155 25.507 11.761 5.927 1.065 0.403 OPERATIONS 22 4 1 18 8 7 4.801 2.202 2.921 HEALTH PHYSICS 1.309 0.531 1.255 SUPERVISORY 1 4 0 1.421 0.166 0.005 2 ENGINEERING 0 INSERVICE INSPECTION 0.007 0.000 2.732 0 MAINTENANCE AND CONSTRUCTION 0 4 0 0.000 0.000 0.000 OPERATIONS 0 0 0 0.000 0.004 0.006 HEALTH PHYSICS 0 0 SUPERVISORY 2 3 4 0.418 0.643 1.827 ENGINEERING 0 0 0 0.000 0.000 0.000 SPECIAL PLANT MAINTENANCE 0.635 6.932 9 9 3.363 MAINTENANCE AND CONSTRUCTION 0 0.008 0.753 0.501 OPERATIONS 0 0 2 1.266 0.093 0.290 HEALTH PHYSICS 5 0 0 0.282 0.006 0.154 SUPERVISORY 0 0 ENGINEERING 1 0 0 0.281 0.000 0.014 WASTE PROCESSING 0.000 0.000 0 0 0.086 MAINTENANCE AND CONSTRUCTION 0 0.000 OPERATIONS 1. 0 0 0.224 0.000 0.000 0.191 0 419 HEALTH PHYSICS 1 O 0 0.000 0.000 0 0 0 0.000 SUPERVISORY 0.000 1.059 4 0.023 0 Ω ENGINEERING REFUELING 11.953 2 35 0.840 0.768 MAINTENANCE AND CONSTRUCTION 5 0.000 0.123 2 0 0.907 OPERATIONS 0 10 0.942 0.710 1.977 HEALTH PHYSICS 5 4 0.716 0.443 0.146 SUPERVISORY 3 1 1 ENGINEERING 1 0 0 0.381 0.158 0.001 Totals 13.212 89.033 29.915 MAINTENANCE AND CONSTRUCTION 96 34 203 16.987 1.487 2.150 62 5 OPERATIONS 5 6.372 6.815 12.104 HEALTH PHYSICS 47 23 21 3.981 SUPERVISORY 6 5 10 3.325 1.899 2.788 0.330 1.088 4 ENGINEERING 4 0 215 67 243 65,119 23.300 103.067 Grand Totals

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

The following is a break down of dose received due to Special Plant Maintenance.

RWP#- Description	Person-rem
01-1015 Minor Mods	2.130
01-1025 Remote work for cleanout of RWCU Phase Separator Tank	1.787
01-1026 Repair Leak On G33-F039	0.480
01-1032 CHANGE OUT 1N22C004A AND 1N22C004B PUMPS	0.035
IMPELLERS.	
01-1033 Repair N23 Piping	0.202
01-1034 Reinject Furmanite Compound into N21FX048	0.067
01-1038 Remove Insulation and Inspect/Identify Leaks on Seal Steam	0.014
Generator.	
01-1043 FURMANITE/REPAIR LEAK ON SEAL STEAM GENERATOR	0.114
01-1044 Repairs of RHR A	0.750
01-1045 SSG repair	0.047
01-1048 FURMANITE REPAIR OF N35F036A	0.143
01-1053 Disassemble/Decon Valves G33F039/F040/FO42/F1O4	0.072
01-1058 FURMANITE REPAIR OF N33F078D	0.016
01-1059 REPAIR LEAKING PROBE. TO INCLUDE	0.190
01-1064 Furmanite Valve 1N23FOO8C:	0.141
01-1066 Furmanite Repair of 1N62F006B and 1N62FX006	0.007
01-1068 Furmanite leak on 1N62F024B & Flange	0.038
01-1070 Rework Pump G17C001	0.037
01-1077 N35F016A	0.078
01-1079 RWCU 'A' Pump seal replacement	0.674
01-1081 Tighten Packing on Valve N11F304B/F052A	0.086
01-1082 Furmanite Repair of 1N11F052A	1.007
01-1300 Replacement of CTMT Steam Tunnel Cooler 1M41C004	0.198
01-1302 Replacement of B Recirc pump seal	1.997
01-1305 tb minor maint	0.032
01-1407 HFTS Diving Operations	0.139
01-1518 thermal weld	0.147
01-1519 Under Vessel Work, to include P45 Sump Work	1.553
01-1613 CUT OUT AND REPLACE VALVE G33F039	1.038
01-1706 CUT OUT AND REPLACE VALVE G33F040.	1.096
01-1800 tb valve work	0.263
	14.578

2001 FAILED FUEL INDICATIONS/INSPECTIONS

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