

Entergy Operations, Inc.

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Operations Grand Stati Nagering Physics

February 7, 1996

U.S. Nuclear Regulatory Commission Mail Station P1-137 Washington, D.C. 20555

Attention:

Document Control Desk

SUBJECT:

Grand Gulf Nuclear Station

Unit 1

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

1995 Annual Operating Report

GNRO-96/00010

Gentlemen:

Entergy Operations, Inc. is transmitting the Grand Gulf Nuclear Station (GGNS) Unit 1 Annual Operating Report for 1995. 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:

- A narrative summary of operating experience during the year 1995,
- 2. Main Steam Line Safety Relief Valve challenges,
- 3. A tabulated annual report of personnel exposure greater than 100 mrem/yr, and
- A summary of failed fuel indications/inspections.

Yours truly,

attachments

cc: (See Next Page)

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CC:

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SUMMARY OF OPERATING EXPERIENCE 1995

The following is a summary of Grand Gulf Nuclear Station (GGNS) Unit 1 operating experience for the 1995 calendar year. During 1995, the reactor was critical for 7,039.9 hours with the generator on line for 6,832.0 hours.

On 3/16/95, a reactor scram occurred caused by a pinched-wire ground fault in RCIC minimum flow valve E51F019 and intermittent ground of backup scram valve C11F110A which energized during Division II surveillance (half scram existing). Immediate corrective actions included reworking the ground on the RCIC valve and replacing the backup scram valve solenoid. Also the conduit going to the solenoid was sealed to prevent moisture intrusion. (JC) [LER 95-004] - Duration hours - 37.3

On 4/15/95, the reactor was shut down for Refueling Outage # 7. This outage was extended due to generator stator leak repairs. Duration hours - 1377.1

On 6/11/95, the reactor was manually scrammed to replace Reactor Recirculation Pump "A" #1 Seal. Duration time - 68.7 hours.

On 6/14/95, the reactor was manually scrammed to replace Reactor Recirculation Pump "A" #1 Seal due to second failure. Duration hours - 140.7

On 6/20/95, the reactor was taken off grid for privine overspeed test. Duration time - 6.8 hours

A reactor scram occurred on 7/3/95. The scram was caused by a trip of Main Turbine and Reactor Feedwater Pumps resulting from an invalid reactor-water-level-high trip signal during surveillance of channel "B". (JC) [LER 95-007] - Duration hours - 37.7

On 7/12/95, a reactor scram was caused by a Main Turbine trip on low condenser vacuum resulting from failure of an HP condenser expansion joint. (SG) [LER 95-008] - Duration hours 139.9

On 7/30/95, a reactor scram occurred due to failure of a current transformer on 500 kV generator output breaker J5228. (JC) [LER 95-010] - Duration hours 68.4

On 9/17/95, the reactor scrammed at low reactor water level caused by failure of the pump discharge check valve to close following a trip of Reactor Feed Pump Turbine "B" resulting from malfunction of pressure regulating valve PRV-4 in lube oil system. Both "B" and "A" discharge check valves were repaired to prevent a similar occurrence. (SJ) [LER 95-011] - Duration hours 51.5

MAIN STEAM SAFETY RELIEF VALVE CHALLENGES 1995

There were no main steam line safety relief valve challenges occurring in 1995.

GGNS UNIT 1 ANNUAL REPORT

MAN-REM EXPOSURE - 1995

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.

Date: 11-JAN-1996 08:37

Grand Gulf Nuclear Station P.O. Box 756 Port Gibson, MS 39150

LICENSE: NPF-2

Regulatory Guide 1.16 Information End of Year Report 1995

Work and Job Function	Numbe	sonnel	Total man-rem *				
	Station	> 100 mre Utility	Contractor				
ROUTINE OPERATIONS AND SURVEILLANCE							
MAINTENANCE AND CONSTRUCTION	4	0	2	1.090	0.003	0.377	
OPERATIONS	1	0	0	1.183	0.000	0.003	
HEALTH PHYSICS	28	7	27	13.315	2.209	10.278	
SUPERVISORY	1	0	6	0.275	0.000	0.015	
ENGINEERING	0	0	0	0.172	0.000	0.000	
ROUTINE PLANT MAINTENANCE							
MAINTENANCE AND CONSTRUCTION	157	25	417	70.723	8.093	153.983	
OPERATIONS	58	0	11	25.683	0.002	7.547	
HEALTH PHYSICS	28	1	8	9.666	0.428	2.793	
SUPERVISORY	11	1	17	3.338	0.386	4.177	
ENGINEERING	16	0	2	6.192	0.011	0.988	
INSERVICE INSPECTION							
MAINTENANCE AND CONSTRUCTION	0	0	64	0.084	0.000	24.246	
OPERATIONS	0	0	0	0.000	0.000	0.026	
HEALTH PHYSICS	0	0	0	0.018	0.003	0.004	
SUPERVISORY	3	0	31	1.094	0.026	9.393	
ENGINEERING	2	0	0	0.371	0.001	0.055	
SPECIAL PLANT MAINTENANCE							
MAINTENANCE AND CONSTRUCTION	0	0	0	0.000	0.000	0.000	
OPERATIONS	0	C	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	

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Number of Personnel

Work and Job Function	> 100 mrem			Total man-rem *			
	Station	Utility	Contractor	Station	Utility	Contractor	
WASTE PROCESSING							
MAINTENANCE AND CONSTRUCTION	0	0	0	0.000	0.000	0.000	
OPERATIONS	0	0	9	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	
REFUELING							
MAINTENANCE AND CONSTRUCTION	0	0	3.8	0.118	0.000	11.142	
OPERATIONS	1	0	2	0.453	0.000	0.534	
HEALTH PHYSICS	0	0	0	0.022	0.000	0.070	
SUPERVISORY	0	G	2	0.347	0.007	0.401	
ENGINEERING	0	0	õ	0.416	0.000	0.000	
Totals							
MAINTENANCE AND CONSTRUCTION	161	25	521	72.015	8.096	189.748	
OPERATIONS	60	0	13	27.319	0.002	8.110	
HEALTH PHYSICS	56	8	35	23.021	2.640	13.145	
SUPERVISORY	15	1	50	5.054	0.419	13.986	
ENGINEERING	18	0	2	7.151	0.012	1.043	
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Grand Totals	310	34	621	134.560	11.169	226.032	

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

SPECIAL MAINTENANCE ACTIVITIES

There were no special maintenance activities in 1995 that resulted in exposure greater than 100 mrem.

FAILED FUEL INDICATIONS/INSPECTIONS - 1995

Failed fuel assessments performed during Cycle 8 indicate a single, medium-sized fuel failure exists in the Grand Gulf core.

The failure occurred on 9/9/95. Fuel Reliability Index peaked at 3061 Ci/sec and leveled at about 1000 Ci/sec.

The failure appears to be in a second cycle bundle in core cell location 32-27. This cell contains two second cycle bundles. Current plans are to discharge both of these bundles during RFO8 (October 1996).