



MISSISSIPPI POWER & LIGHT COMPANY

Helping Build Mississippi

P. O. BOX 1640, JACKSON, MISSISSIPPI 39205

May 25, 1984

NUCLEAR PRODUCTION DEPARTMENT

U. S. Nuclear Regulatory Commission  
Office of Nuclear Reactor Regulation  
Washington, D. C. 20555

Attention: Mr. Harold R. Denton, Director

Dear Mr. Denton:

SUBJECT: Grand Gulf Nuclear Station  
Unit 2  
Docket No. 50-417  
License No. NPF-13  
File: 0260/15320  
Transmittal of Environmental  
Protection Program Report  
of Six Months Ending  
April 30, 1984  
AECM-84/2-0006

Attached is a report entitled "Summary of Environmental Protection Program Respecting Construction of Grand Gulf Nuclear Station for Six Months Ending April 30, 1984." This report is submitted as required by Staff Exhibit 2-A referenced in subsection 3.E.1 of Applicant's Construction Permit No. CPPR-119.

Please contact me if you have any questions concerning this report.

Yours truly,

L. R. McKay, Ph. D.  
Manager, Radiological &  
Environmental Services

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Attachments

cc: Mr. J. B. Richard (w/a) Mr. N. S. Reynolds (w/a)  
Mr. R. B. McGehee (w/a) Mr. G. B. Taylor (w/a)

Mr. Richard C. DeYoung, Director (w/a)  
Office of Inspection & Enforcement  
U. S. Nuclear Regulatory Commission  
Washington, D. C. 20555

Mr. J. P. O'Reilly, Regional Administrator (w/a)  
Region II  
101 Marietta Street, N. W., Suite 2900  
Atlanta, Georgia 30303

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Summary of Environmental Protection Program  
Respecting Construction of Grand Gulf Nuclear Station (GGNS)  
for Six Months Ending April 30, 1984

Construction Highlights

- Construction of Unit 2 is 33.4% complete. There was no construction on GGNS Unit 2 during the reporting period. All activity on Unit 2 was for the purpose of protecting the investment.
- Work on the Energy Services Center (ESC) was completed during the reporting period.

Vehicular Movement

- No "off limit" violations were observed during the reporting period.

Dust Control

- No dust control violations were observed during the reporting period.

Smoke Control

- There were six smoke control violations during the reporting period. These violations involved excessive emissions from the burn pit.
- The Mississippi Department of Natural Resources conducted an opacity training session during the reporting period. The training session was attended and successfully completed by all Environmental Surveillance Program personnel. With this training and continued cooperation with MP&L Construction personnel, the opacity violations at the burn pit should continue to decline.

Erosion Control

- Rainfall was recorded on 42 separate occasions during the reporting period, with an accumulated rainfall of 35.10 inches. Runoff samples were collected on 16 of these instances and returned to the Environmental Surveillance Laboratory for suspended solids analysis.

Noise Control

- No excessive noise control violations were detected during the reporting period.

### Chemical and Solid Waste Control

- Dielectric fluid from electric transformers used at GGNS were sampled and analyzed for Polychlorinated Biphenyls (PCBs). No PCBs were detected.
- Approximately 1140 gallons of non-PCB oil spilled from the 21B Unit II transformer onto the ground in the main west laydown area. Some of the oil from the spill entered Sediment Basin A. Cleanup was completed in a timely manner with no adverse environmental impact.
- Environmental Surveillance Program personnel are working to facilitate disposal of hazardous waste being stored at GGNS.
- An Electro-Hydraulic Control (EHC) fluid spill occurred during the reporting period. A containment and cleanup effort prevented any of the EHC fluid from leaving the station. Over 200 drums of water and EHC fluid were collected for disposal. Petroleum-based material is being disposed of in the Bechtel oil pit after separation from the water.
- A small leak of Nalco 39L was discovered in the MP&L Warehouse. The spill was quickly contained and cleaned up.

### Regional Groudwater Dewatering

- The 12 regional groundwater wells and 15 perched aquifer wells were read during the reporting period.
- Several changes of over three feet were observed in the regional groundwater during the reporting period. The changes can be associated with a rising and falling Mississippi River and heavy rainfalls. None of the changes appear to be permanent.
- The perched aquifer wells were read monthly during the reporting period. There were no instances where the design maximum groundwater level of 109.00 ft above Mean Sea Level (MSL) was exceeded during the reporting period. The Unit I dewatering pumps were repaired and put into operation during the reporting period.

### Vegetation

- No vegetational abnormalities were observed during the reporting period.

Timber Management Plan

- A Timber Management Plan is being developed by MP&L to foster productive management of Company held land. GGNS lands are included in this master plan. A selective harvesting program will be implemented to facilitate maximum growth potential in forested areas surrounding GGNS. Undesirable tree species will be removed to allow development of desirable hardwood species.

Transmission Lines

- A semiannual aerial survey of GGNS-associated transmission lines was conducted during the reporting period. No major erosion problems were evident.

Sediment Basins A & B

- No problems were encountered with either basin during the reporting period. Silt accumulation is rapidly building up at the influent end of each basin. The buildup appears to be helping the basins because of a natural bridging effect which allows sediment to settle out more quickly.