



UNITED STATES
NUCLEAR REGULATORY COMMISSION

REGION II
101 MARIETTA STREET, N.W.
ATLANTA, GEORGIA 30303

Report No.: 50-416/84-18

Licensee: Mississippi Power and Light Company
Jackson, MS 39205

Docket No.: 50-416

License No.: NPF-13

Facility Name: Grand Gulf

Inspection Dates: May 22-23, 1984

Inspection at Grand Gulf site near Port Gibson, Mississippi

Inspector: J. R. Harris
J. R. Harris

5/31/84
Date Signed

Approved by: T. E. Conlon
T. E. Conlon, Section Chief
Engineering Branch
Division of Reactor Safety

5-31-84
Date Signed

SUMMARY

Area Inspected

This routine unannounced inspection involved seven inspector-hours on site in the area of a previously identified licensee item.

Results

Of the one area inspected, no violations or deviations were identified.

REPORT DETAILS

1. Persons Contacted

Licensee Employees

*J. Cross, Plant Manager

*J. D. Bailey, Compliance Coordinator

Other Organization

D. Davis, Civil Engineer, Bechtel

*Attended exit interview

2. Exit Interview

The inspection scope and findings were summarized on May 23, 1984, with those persons indicated in paragraph 1 above. The licensee acknowledged the inspection findings.

3. Licensee Action on Previous Enforcement Matters

Not inspected.

4. Unresolved Items

Unresolved items were not identified during this inspection.

5. (Closed) CDR 416/82-27, Plant Flooding. This item was reported to NRC Region II on May 10, 1982. Interim reports were submitted on June 16 and September 10, 1982. The final report was submitted on May 31, 1983. A review of Grand Gulf Units 1 and 2 site drainage revealed a number of existing obstructions that were not considered or evident at the time the original site drainage scheme was developed. The cumulative effect of these obstructions raises the calculated Probable Maximum Precipitation (PMP) flood level to an elevation that exposes the plant to some level of internal flooding. The unrestricted flow of water into Category 1 structures could adversely affect the operation and safe shutdown of the plant by rendering safety-related components and systems inoperable. The cause of the deficiency is the placement of structures and modifications to permanent structures in manners which were not included in the original site drainage analysis.

Temporary measures utilizing sandbags were taken to preclude internal flooding of Unit 1 buildings based on a PMP event. A detailed evaluation of the effects of PMP flooding showed that floodwater leakage could be controlled with modifications to the control building, diesel generator building, and standby service water pump house doors, penetrations, and equipment hatches. These evaluations were submitted by MP&L to NRR as

attachments to letters from L. F. Dale, Manager of Nuclear Services to H. R. Denton, Director of NRR, dated August 9, 1982, and October 14, 1982. Review and acceptance by NRR of the evaluations and the proposed modifications is discussed in NUREG 0831, Supplement 4, Section 2.4, Hydrology and Engineering.

The NRC inspector examined design package DCP82/5026 Rev. 1 controlling the modifications and completed modifications. Examination of the completed work showed that the modifications have been completed in accordance with design requirements. This item is closed.