UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION II
101 MARIETTA ST., N.W., SUITE 3100
ATLANTA, GEORGIA 30303

Report No.: 50-416/83-20

Licensee: Mississippi Power and Light Company
Jackson, MS 39205

Docket No.: 50-416

License No.: NPF-13

Facility Name: Grand Gulf 1

Inspection at Grand Gulf site near Port Gibson, Mississippi

Inspector: T. R. Collins — Date Signed: 6/2/83

Approved by: K. P. Barr, Section Chief
Operational Programs Branch
Division of Engineering and Operational Programs — Date Signed: 6/2/83

SUMMARY

Inspection on May 9-13, 1983

Areas Inspected

This routine, unannounced inspection involved 33 inspector-hours on site in the areas of radiation protection program; liquid, solid, and gaseous preoperational test program; and previous inspector identified items.

Results

Of the three areas inspected, no violations were identified.

REPORT DETAILS

1. Persons Contacted

   Licensee Employees

   *C. K. McCoy, Plant Manager
   J. Cross, Assistant Plant Manager
   *R. R. Weedon, Chemical and Radiation Control Superintendent
   *J. Vincelli, Radiation Control Supervisor
   *J. C. Roberts, Startup Supervisor
   *L. F. Daughtery, Compliance Superintendent
   *J. D. Bailey, Compliance Coordinator
   *R. Graham, Plant Quality
   T. G. Lee, Staff Health Physicist
   B. Gulley, Staff Health Physicist
   G. Humphrey, Start-up Engineer
   J. George, Start-up Engineer
   R. Brown, Plant Chemist

   Other licensee employees contacted included two technicians, two security force members, and two office personnel.

   Other Organizations

   NUMANCO, Inc.
   ARC, Inc.

   NRC Resident Inspector

   A. Wagner

   *Attended exit interview

2. Exit Interview

   The inspection scope and findings were summarized on May 13, 1983, with those persons indicated in paragraph 1 above.

3. Licensee Action on Previous Enforcement Matters

   Not inspected.

4. Unresolved Items

   Unresolved items were not identified during this inspection.

5. Inspector Identified Items (Open)

   a. (Open) IFI (81-02-02), Personnel Dosimetry Program. The licensee has developed a program to investigate TLD/Pocket Dosimeter discrepancies @ ±25% value. However, the procedure for addressing this program has not been approved. The inspector stated to management that this will be reviewed during the next routine inspection.

   b. (Open) IFI (83-02-03), Installation of Lead Shielding. The licensee has developed a program to ascertain the issuance, control, and accountability of temporarily installed lead shielding on safety related piping. However, the procedure for controlling this program has not been approved. The inspector stated to licensee representatives that this will be reviewed during the next routine inspection.

   c. (Open) IFI (83-02-04), Training of personnel who are directly responsible for the processing, packaging, and shipping of radioactive material. The licensee has contracted with Resource Technical Services (RTS) to provide a training program for all personnel handling radioactive waste. However, at this time, only the Health Physics personnel have received the training. Operations personnel are scheduled to take the required training at a later time. The inspector stated to licensee management that this will be reviewed during the next routine inspection.

   d. (Open) IFI (83-02-05), IE Information Notice No. 82-49. The licensee has reviewed IE Information Notice No. 82-49 for applicability to their facility; however, at this time they have not concluded if problems exist in their gaseous effluent system. The inspector informed a licensee representative that this would be reviewed during the next routine inspection.

   e. (Open) IFI (83-02-06), Radwaste Volume Reduction Program. A formal program for training plant personnel in radwaste volume reduction has not been implemented at this time. The inspector informed licensee management that this would be reviewed during the next routine inspection.

6. Inspector Identified Items (Closed)

   a. (Closed) IFI (82-75-01), Radwaste Solidification System. The inspector reviewed the completed 1G-18 preoperational test package of the radwaste solidification system and concluded that the test was adequate. The inspector had no further questions.

   b. (Closed) IFI (82-75-02), Radiation Protection Procedures. The inspector reviewed the plant Administrative Procedure, 01-5-02-2, Control and Use of the GGNS Operations Manual, "Safety Related", which includes Health Physics Administrative Procedures to be reviewed by the PSRC. The inspector concluded that this was adequate and had no further questions.

c. (Closed) IFI (83-02-01), General Employee Training. The inspector was provided, from a licensee representative, documentation which included an up-to-date NRC Form 3 and adequate training techniques for personnel frisking in the GET Program. The inspector concluded that the GET training material was adequate and had no further questions.

7. Licensee Event Reports

a. (Closed) Licensee Event Report (LER) 83-063/01, Control Room Radiation Inoperable. The control room radiation monitor is required to be checked for operability monthly by Surveillance Procedure 06-OP-1D21-M-001 and Technical Specification 4.3.7.1. The test had been performed on January 27, 1983. The surveillance would exceed its due date on March 6, 1983.

On March 9, Operations Department personnel discovered that the surveillance had not been conducted. The test was immediately performed and passed satisfactorily.

The apparent cause of the event was due to personnel error. Surveillance status is presently tracked both manually and by computer. The computer generates a task card which is sent to personnel responsible for tracking. The task cards and tracking log are reviewed and a weekly schedule is provided to the Control Room.

The test for the monitors had not been logged due to oversight and were therefore, not included on the weekly schedule. Tracking personnel recognized this and took appropriate action on March 9.

The inspector concluded that the present method of tracking surveillances appears to be adequate. Persons responsible for the error identified the error. The inspector had no further questions.

b. (Closed) Licensee Event Report (LER) 83-051/03 Control Room Emergency Filtration Subsystems Inoperable. On March 28, 1983, Control Room Air Conditioning Unit A was declared inoperable after a solenoid operated Freon valve in the unit had blown a gasket. The valve was reworked with a valve repair kit and a new teflon gasket was installed. The event was described in LER 83-061/03 L-0.

On April 1, 1983, both emergency filtration subsystems were taken out of service by opening the control circuit breakers. Freon was being vented from the Unit A Air Conditioner prior to and during the valve repair work of LER 83-061/03 L-0. Both emergency filtration subsystems were shutdown during this time period to prevent intake of Freon on a SBFA fan start and possible charcoal damage due to Freon intrusion. The maintenance task was completed on April 4, 1983, and both subsystems were energized. The inspector concluded that the repair to the Control Room Air Conditioning Unit A system was done in a timely manner and the emergency filtration subsystems were put back into service immediately following the maintenance repair. The inspector had no further questions.

8. Annual Personnel Monitoring Report

The inspector reviewed the annual personnel monitoring report for 1982, as required by 10 CFR 20.407(a) and (b), and concluded that the report was adequate. The inspector had no further questions.

9. Liquid Radwaste Effluent Monitor (J007)

The licensee has issued a Design Change Package (DCP) 82/607-3, to relocate the 1D17-J007, Liquid Radwaste Effluent Monitor, so as to assure immediate isolation of radwaste discharge upon a high radiation alarm. This item was addressed in an earlier report which indicated a concern of immediate isolation of radwaste discharge upon a high radiation alarm due to the location of the liquid radwaste effluent monitor. The inspector informed licensee management that this would remain as an inspector followup item pending the completion of the DCP (50-416/83-20-01).

10. Preoperational Test Program

The inspector reviewed preoperational test packages of 1N64-PT01, Off-Gas System, 1G18-PT01, Solid Radwaste System, and 1G17-PT02, Liquid Radwaste System for requirements as outlined in the Final Safety Analysis Report (FSAR) and concluded that the preoperational tests were adequate. The inspector noted that minor exceptions were recognized during the official review process by the licensee. However, the exceptions were insignificant in that the operation of the systems was not affected as required by the FSAR. The inspector had no further questions.

11. Solid Radwaste System Modification

The licensee has elected to modify their present radioactive waste solidification system by the use of a mobile radwaste solidification process. This modification is in progress and will be completed at a later date. The inspector informed licensee management that this item would remain as an inspector followup item pending their completion of the radwaste system modification (50-416/83-20-02).

12. Bioassay Program

The inspector discussed the software problems with licensee representatives on the whole body counting system. It was determined the software for the whole body counter was not acceptable and that the associated errors would have to be investigated and replaced. The inspector expressed concern that it appeared that the whole body counting system would not be operational prior to plant start-up. Licensee representatives informed the inspector that they would contract a vendor to perform required whole body counting until their computer errors have been corrected. The inspector informed licensee management that this item would remain as an inspector followup item pending their corrective action on the whole body counting equipment (50-416/83-20-03).

13. Plant Tour

The inspector toured the Fuel Handling Building, Containment Building, Turbine Building, Auxiliary Building, and Radwaste Building to verify proper posting of Radiation Controlled Areas, Radioactive Materials Areas, and Radiation Areas. No violations or deviations were observed.