



UNITED STATES  
 NUCLEAR REGULATORY COMMISSION  
 REGION II  
 101 MARIETTA ST., N.W., SUITE 3100  
 ATLANTA, GEORGIA 30303  
 November 2, 1982

Report No. 70-1201/82-18

Licensee: Babcock and Wilcox Company  
 Commercial Nuclear Fuel Plant  
 Lynchburg, VA 24505

Facility Name: Commercial Nuclear Fuel Plant

Docket No. 70-1201

License No. SNM-1168

Inspector: EJM<sup>c</sup> Alpine for 11/1/82  
 G. L. Troup Date Signed

Approved by: EJM<sup>c</sup> Alpine 11/1/82  
 E. J. McAlpine, Section Chief Date Signed  
 Technical Inspection Branch  
 Division of Engineering and Technical Programs

SUMMARY

Inspection on October 20-22, 1982

Areas Inspected

This routine, unannounced inspection involved 18 inspector-hours on site in the areas of organization, procedures, safety committees, training, maintenance, facility change and modifications, criticality safety, operations, and information notices.

Results

Of the areas inspected, no violations or deviations were identified.

## REPORT DETAILS

### 1. Persons Contacted

#### Licensee Employees

R. A. Alto, Manager, Virginia Operations  
\*C. W. Speight, Manager, Facilities Control  
\*J. Fidor, Manager, Quality Assurance  
\*W. T. Engelke, Manager, Manufacturing Engineering  
\*L. T. Lee, Manager, Manufacturing Operations  
\*D. W. Zeff, Manager, Materials Management  
\*J. T. Ford, Materials Control Manager  
\*R. L. Vinton, Senior Health Physicist  
\*K. E. Shy, Health Safety Foreman  
P. A. Cure, Associate Health Physicist

Other licensee employees contacted included two technicians, one operator, and two office personnel.

\*Attended exit interview

### 2. Exit Interview

The inspection scope and findings were summarized on October 22, 1982, 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. Organization

- a. On October 15, 1982, a corporate reorganization was implemented which merged the Nuclear Power Generation Division and the Fossil Power Generation Division into the Utility Power Generation Division (UPGD). The CNFP plant manager is responsible to the Vice President, UPGD through the Manager, Nuclear Fuel Services.
- b. W. A. Powers, formerly Manager, Safeguards, has transferred to another position in the company and is no longer at the facility. J. T. Ford, License Administrator, was appointed Materials Control Manager in addition to his licensing functions on September 20, 1982. The position of Materials Control Manager assumes the responsibilities of the Manager, Safeguards.

- c. In inspection report 70-1201/82-04, an open item was identified concerning the designation of the "responsible officer" to comply with 10 CFR 21.21. Revision 3 to procedure AS-1128, dated August 27, 1982, designated the vice president of the Nuclear Power Generation Division as the "responsible officer". This position has been retitled under the corporate reorganization but authority remains the same in this matter. The inspector informed licensee management that open item 82-04-01 was closed for record purposes.

## 6. Procedures

- a. Each functional component of the licensee's organization has the responsibility for preparing, obtaining approvals, issuing, distribution control, and revision of procedures. All components must comply with requirements of procedure PC-1300, Rev. 4, "CNFP Procedure Numbering System" and PC-13309, Rev. 1, "Preparation and Approval of CNFP Administrative and Operative Procedures".
- b. Selected procedures and temporary changes were reviewed for conformance with the basic procedures noted in "a" above and with the appropriate component procedures as follows:
  - (1) MA-1206, Rev. 2 - Preparation and Approval of Manufacturing Procedures
  - (2) MA-1210, Rev. 2 - Preparation and Approval of Manufacturing process procedures temporary revisions
  - (3) AS-1124, Rev. 4 - Preparation, Distribution and Control of Health, Safety, and Licensing Procedures
- c. Verification was made that the correct revision of procedures was in use and that distribution is by Document Control Voucher per procedure. No violations of requirements were identified.

## 7. Safety Committee

- a. The inspector reviewed the agenda and minutes for the Safety Review Board meeting on September 27, 1982. Attendance at the meetings and topics considered were in accordance with the board's charter. Meeting frequency was in accordance with Section V, Subsection 6.1 of the license application. The inspector had no further questions.
- b. The composition of the Safety Review Board is specified in procedure AS-1120, "CNFP Safety Board", Rev. 4, dated December 17, 1981. Subsequent to that revision, the plant organization has changed and one member has left the facility. A licensee representative informed the inspector that procedure AS-1120 is being revised to reflect the new organization in the makeup of the board. The inspector had no further questions at this time.

## 8. Training

The inspector reviewed training records and discussed the nuclear safety and radiation training with licensee representatives. New employee training and employee retraining is being conducted in accordance with procedure AS-1101, "Employee Safety Training". The inspector had no further questions.

## 9. Maintenance

The inspector discussed the control of maintenance and special work operations with licensee representatives and reviewed the Special Work Permits associated with the work. The special operations were covered by a permit in accordance with procedure AS-1123, "Radiation Work Permit Program" and included provisions for radiation safety and industrial safety. The inspector had no further questions.

## 10. Facility Changes and Modifications

- a. Section V, Subsection 7.1.4 of the application states the requirement for the approval of modifications. Procedure AS-1120, "CNFP Safety Review Board" implements these requirements.
- b. One change which was previously reviewed and approved (installation of scrap containers at the granulator) has not been implemented. A licensee representative informed the inspector that an alternate method was being investigated and would be implemented based on established nuclear safety criteria.

## 11. Criticality Safety

- a. The inspector observed the storage of SNM, transport, and processing operations. Materials were in approved arrays and storage locations. SNM scrap was handled in approved containers. Safety criteria were posted at work stations. No deviations from posted or procedural requirements were observed.
- b. The inspector verified by observation and review of material accountability records that the following criticality limits were met:
  - (1) Liquid containers in the pelletizing area are limited to 3.5 gallons. Flammable solvents are limited to two gallons.
  - (2) Unsafe geometry containers are marked and covered.
  - (3) Service water lines in the moderation control area are shielded and baffled to preclude spraying in the event of a ruptured line.
  - (4) The total SNM inventory is less than the license limit of 20,000 kgs. of U-235.

- c. In inspection report 70-1201/82-04, inspector followup item 82-04-02, was identified concerning mass limit for the QC inspection hoods and the material control log. The inspector reviewed the licensee's evaluation of this situation, which concluded that the mass limit of 25 kgs would be applied to all four hoods (2 units). The inspector observed that the posting and material control log reflected the 25 kg limit. The inspector had no further questions and stated that open item 82-04-02 was closed.

## 12. Operations

- a. The inspector reviewed the test records and verified that the criticality and emergency alarms had been functionally tested monthly (January - August 1982) and had been calibrated in May 1982. The inspector also reviewed the records for the annual interlock tests. All interlocks, except the sintering furnace, were tested in May 1982. The furnace interlocks were tested in January 1982 during the startup of the unit.
- b. The inspector reviewed the test records for the monthly fire extinguishers inspections for the period January - September 1982. The inspector also reviewed the fire hose hydrostatic test report and the fire extinguisher inspection and hydrostatic test report, both performed in July 1982.
- c. The inspector verified during plant tours that operating procedures and health and safety procedures were available in the work areas and that current revisions were in use. General safety requirements were posted in various areas of the plant.
- d. No apparent fire or industrial safety hazards were observed. General housekeeping conditions were satisfactory.
- e. In inspection report 70-1201/82-08, paragraph 7.b, the inspector noted that the baffles on one side of a sintering furnace had been rearranged to permit the installation of a dew point monitor. The inspector observed that the baffles were properly installed and that a test connection with a removable cover had been installed to permit use of the dew point monitor without removal of the baffle. The inspector had no further questions.

## 13. Information Notices

- a. The inspector determined that the licensee had received two Information Notices, the notices had been reviewed, and where appropriate, action had been taken. The inspector had no further questions.

b. Information Notices reviewed were:

- (1) 82-21, "Buildup of Enriched Uranium in Effluent Treatment Tanks". As part of the liquid waste discharge procedure, the tanks are routinely inspected for sludge accumulation after each discharge.
- (2) 82-24, "Water Leaking from Uranium Hexafluoride Overpacks". This notice is not applicable to CNFP as the facility does not receive enriched uranium as hexafluoride. Material stored on site in accordance with license condition no. 7.f is not received or stored in overpacks.