



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

Report No. 70-1151/82-15

Licensee: Westinghouse Electric Corporation
Nuclear Fuel Division
Columbia, SC 29205

Facility Name: Columbia Plant

Docket No. 70-1151

License No. SNM-1107

Inspector: *G. L. Troup*
G. L. Troup

8/20/82
Date Signed

Approved by: *E. J. McAlpine*
E. J. McAlpine, Section Chief
Technical Inspection Branch
Division of Engineering and Technical Programs

8/20/82
Date Signed

SUMMARY

Inspection on August 9-13, 1982

Areas Inspected

This routine, unannounced inspection involved 30 inspector-hours on site in the areas of facility changes and modifications, internal review and audit, safety committees, training, procedure control, operation review and information notices.

Results

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

REPORT DETAILS

1. Persons Contacted

Licensee Employees

- *M. D'Amore, Manager, Columbia Plant
- *W. H. Britton, Manager, Manufacturing
- *W. L. Goodwin, Manager, Regulatory Compliance
- *C. F. Sanders, Manager, Radiological and Environmental Services
- *E. K. Reitler, Jr., Fellow Engineer
- H. T. King, Nuclear Criticality Engineer
- R. E. Fischer, R&E Engineer
- R. K. Burklin, R&E Engineer
- H. T. Shannon, R&E Engineer
- M. L. Brazell, Supervisor, Conversion and Scrap Processing
- M. R. Spinnato, Supervisor, Waste Recovery and Disposal
- R. Jacobs, Supervisor, Conversion and Scrap Processing
- N. Stevenson, Supervisor, Conversion and Scrap Processing

*Attended exit interview

2. Exit Interview

The inspection scope and findings were summarized on August 13, 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. Facility Changes and Modifications

- a. The inspector reviewed ten facility changes completed since February 1982. Records were reviewed for conformance with safety review, evaluation and approval requirements in Section 2.3.2.3 of the license application and license Condition 44. During the last inspection, one modification reviewed had been incomplete. The inspector verified that this modification had been inspected and released prior to startup.
- b. When changes or modifications required a nuclear safety analysis the inspector verified that the calculations had been independently reviewed and approved. The inspector had no further questions.

6. Internal Review and Audit

- a. Section 2.3.2.3 of the license application states that radiation protection and nuclear criticality safety inspections will be performed at least monthly during operations. The inspector reviewed the inspection reports for the period January - July 1982 and determined that the inspections were conducted as required, identified deficiencies were documented for management action and corrective actions verified. From the documented findings it was apparent that most of the identified discrepancies were corrected at the time of the inspection.
- b. License Condition 43 requires that the inspections be made in accordance with a written plan. The inspector verified that a written inspection plan had been developed and used in the conduct of the inspection. However, the inspector observed that the checklist contained handwritten changes and there was no revision or effective date nor was there any management approval. Licensee representatives acknowledged these comments and stated that the inspection checklists would be formalized to reflect the current inspection requirements. The inspector stated that this would be reviewed later (82-15-01).

7. Safety Committees

- a. The inspector reviewed the meeting minutes for the Regulatory Compliance Committee (RCC) meetings for the period January - May 1982. Participants and meeting frequency were as required by License Condition No. 19.
- b. The agenda items discussed during these RCC meetings included inspections and audits, license and permit amendments, nuclear criticality safety environmental control and training.
- c. The semi-annual ALARA report for July 1 - December 31, 1981 was reviewed by the RCC at the March meeting. In Section 3.1.2 of the license application the ALARA committee responsibilities are described as conducting periodic reviews and providing assessments of occupational exposures, radioactive material releases and any abnormal occurrences on a semi-annual basis. The inspector had no further questions.

8. Training

- a. License Condition 32 and 45 require that employees who work with SNM receive refresher training at least annually and that written tests be administered. By discussions with personnel and review of selected training files, the inspector verified that the required training was being received by plant personnel and Daniels Construction Company employees. Refresher training is being conducted to assure that all personnel receive the requisite training.

- b. The inspector discussed training received by the operators in the conversion areas with cognizant supervisors. In addition to training in startup and shutdown operations, operators receive detailed instruction on the process equipment.
- c. Other training completed in the last twelve-month period included a fire drill on December 2, criticality drills on December 16 (1st and 2nd shift) and December 18 (3rd shift) and an emergency drill involving the hospital on December 20.

9. Procedure Control

- a. Manufacturing Procedure MM-0, Rev. 6, Control of Manufacturing Manual Procedures, specifies the format and style of manufacturing procedures. MM-0 also specifies the method for initiation, preparation, review, and approval of new or revised procedures. Procedure MM-10, Rev. 10, Operating Procedures, Machine Shop Process Drawings, covers the preparation, review, approval and revision for operating procedures, repair operating procedures, supplementary operating procedures, process information forms and machine shop process drawings.
- b. Radiological and Environmental Engineering approval is required for new or revised procedures which involve processing, handling, storage, inspection or movement of special nuclear materials. Specific radiation and/or nuclear safety requirements formerly were appended to the procedure; newer procedures or revisions now have these requirements incorporated into the procedure.
- c. The inspector spot checked several procedures at work stations and verified that they were current. The inspector also discussed the manner in which procedure revisions are brought to the attention of operators. The inspector had no further questions.

10. Operations Review

- a. The inspector observed that vaporizer detectors were operable, that remote closing devices were in place for closing UF6 cylinder valves in the vaporizer chests and that valve covers were in place on cylinders being moved. The vaporizer detectors had current calibration stickers affixed.
- b. The inspector observed that the control room instruments for one process line were clearly labeled "out of calibration." A supervisor explained that these instruments pertained to production line which was shutdown. Instrumentation for those lines in operation appeared to be functioning properly.

- c. The inspector observed that the past criticality safety signs in the incinerator area listed approved storage as two 5-gallon containers. However, smaller containers ("ammo cans") were stored bird cage storage racks within the marked "crit safe" zones. Although the storage in the bird cages is a safe configuration, licensee representatives acknowledged that the signs should be corrected to reflect the approved storage configuration (82-15-02).
- d. General housekeeping condition in the plant and outside areas were good. No industrial safety items were identified.

11. Information Notices

- a. Information Notice 82-15, "Notification of the Nuclear Regulatory Commission." The licensee is revising the emergency procedures to include the alternate NRC emergency telephone number.
- b. Information Notice 82-21, "Buildup of Enriched Uranium in Effluent Treatment Tanks." The licensee has a periodic inspection program for examination of the effluent tanks (process information form C4621). Although influent to the tanks is filtered and monitored, some sludge is encountered due to the chemical addition from the advanced waste water treatment system. The bulk of this material is removed by recirculation and transfer to the waste water system. The inspector had no further questions on the licensee's actions.
- c. Information Notice 82-24, "Water Leaking from Uranium Hexafluoride Overpacks." The licensee is reviewing this notice to determine what corrective actions may be required.