UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION II
101 MARIETTA STREET, N.W.
ATLANTA, GEORGIA 30323

Report No.: 70-1151/89-10

Licensee: Westinghouse Electric Corporation
Commercial Nuclear Fuel Division
Columbia, SC 29250

Docket No.: 70-1151 (Fuel Division) License No.: SNM-1107

Facility Name: Westinghouse Electric Corporation

Inspection Conducted: December 11-15, 1989

Inspector: E. M. Alpine for 1/8/90
D. Kasnicki, Fuel Facility Inspector Date Signed

Approved by: E. M. Alpine 1/8/90
E. J. McAlpine, Section Chief Date Signed
Radiation Safety Projects
Nuclear Materials Safety and Safeguards Branch
Division of Radiation Safety and Safeguards

SUMMARY

Scope:

This routine unannounced inspection was conducted in the areas of management organization and controls, training, nuclear criticality safety, operations review, maintenance and surveillance testing, and follow-up on previously identified items.

Results:

In the areas inspected, violations or deviations were not identified. The inspector noted that the retraining video tape for fuel handlers was particularly well done and that the number of findings from internal nuclear safety audits has dropped significantly.

REPORT DETAILS

1. Persons Contacted

Licensee Employees

*J. Allen, Manager, Technical Services
W. Goodwin, Manager, Regulatory Affairs
*E. Keelen, Manager, Manufacturing
*R. Montgomery, Senior Regulatory Engineer
J. Nay, Control and Electrical Engineer
*E. Reitler, Manager, Regulatory Engineering
T. Shannon, Regulatory Affairs Technician
*R. Wiggins, Manager, Product Assurance (Acting Plant Manager)
R. Williams, Fellow Engineer

*Attended exit interview

2. Regulatory Affairs (RA) Procedures Manual (88005, 88015, 88020)

Paragraph 3.1.2.3(9) of the license application requires that the Radiation Protection Component shall be responsible for the maintenance of a site Regulatory Affairs Procedures Manual. In reviewing this manual, the inspector noted that the manual is maintained in accordance with the written policy that is delineated in procedure RA-100, "Preparation and Revision of Regulatory Affairs Procedures," Rev. 4, dated August 28, 1989, this meets the requirement of paragraph 2.6.1.1, which states that safety-related procedures shall be maintained according to written policy. The manual consists of RA procedures in the areas of administration, health physics, nuclear criticality safety, environmental control, safeguards, shipment and transportation.

No violations or deviations were identified.

3. Health Physics Manual (88005, 88020)

Paragraph 3.1.2.3(8) of the license application requires that the Radiation Protection Component shall be responsible for the maintenance of a site Health Physics Manual. The Westinghouse CNFD site Health Physics manual is entitled "Regulatory Operations - Operating Procedures." This manual consists of procedures which address work that is done by the Health Physics Operations function. The inspector noted that the manual addresses equipment use and calibration, dosimetry, bioassays, surveys, release requirements, respiratory equipment, and environmental surveys.

No violations or deviations were identified.

4. Procedure Reviews (88005)

Paragraph 2.6.2 of the license application requires that the Regulatory Affairs Procedures Manual and the Health Physics Manual be reviewed annually; the inspector noted that the review dates of these two manuals were October 17, 1989, and October 23, 1989, respectively.

No violations or deviations were identified.

5. Change Rooms, Step-off Pads, Daily Check of Personnel Survey Instruments (88020, 88025)

Paragraph 3.2.2 of the license application requires adequate change rooms and the use of step-off pads for contamination control purposes; and paragraph 3.2.2.6 requires a daily operability check on personnel survey instruments. The change areas and step-off pads which the inspector observed at control points appeared adequate, and records indicated that the daily checks on these survey instruments are being performed.

No violations or deviations were identified.

6. General Radiation Protection Procedures (88005, 88020)

Paragraph 3.2.1.1 of the license application requires written procedures which describe general radiation protection requirements. Any one of these procedures is specific to a work area and is intended to supplement specific radiation protection requirements which are included in operating procedures. The inspector reviewed several of these general radiation protection procedures.

No violations or deviations were identified.

7. Instrument Calibrations (88005, 88020, 88025)

Paragraph 3.2.1.2(2) of the license application requires that the criticality detection and alarm system be checked for proper functioning at least every six months. Paragraph 3.2.1.2(9) requires that conductivity instruments in the vaporizer system be calibrated quarterly. The inspector reviewed records of these required calibrations and everything appeared to be in compliance with the above requirements.

No violations or deviations were identified.

8. Training (88010)

Section 3.1.5 of the license application requires that employees receive training relative to the behavior of radiation and radioactive materials, risks involved in receiving low level radiation exposure, the applicable portions of 10 CFR 19 and 20, and basic necessities for radiation protection, ALARA practices and nuclear criticality safety. The inspector reviewed a training video tape for the retraining of employees who handle

SNM. This training tape was particularly well done and does an excellent job of covering the intended subject matter. From the standpoint of content, this is the best such training material that the inspector has observed. The companion text, "Regulatory Affairs Training Manual," was also reviewed.

No violations or deviations were identified.

9. Internal Nuclear Safety Audits (88005, 88015)

Paragraph 3.1.4.3 of the license application requires monthly nuclear safety audits. The inspector reviewed audit documentation for CY 1989 and noted a marked improvement in the number of findings between the first and last halves of the year, i.e., twelve vs two findings. Findings appear to be addressed and resolved in a timely manner.

No violations or deviations were identified.

10. Engineered Criticality Controls (88005, 88015, 88020, 92701)

Discussions with Westinghouse representatives and a review of related documentation indicated that an Engineered Criticality Controls Team was formed and held its first meeting on March 23, 1989. The team reviewed findings from nuclear safety audits back to January 1, 1988, to assure that each was addressed by engineered controls to be proposed. Fourteen engineered controls were proposed and, as of this inspection, ten of them have been implemented. The inspector observed several of these new control devices and they appeared to be adequate to preclude the intended nuclear safety violations. The inspector stated that, while four of the fourteen originally proposed engineered controls are still being developed, the ten controls which have been implemented appeared to have been very well done and that all indications were such that efforts to initiate and follow through with this project appear complete. Therefore, this item is closed for record purposes and further progress will be reviewed during subsequent routine inspections. Unresolved Item (URI) 88-02-01 is closed.

No violations or deviations were identified.

11. Facility Tour (88015, 88020)

The inspector toured the IFBA production facility and all observed handling and storage of pellets and fuel rods were in accordance with posted safety limits and storage requirements.

No violations or deviations were identified.

12. Industrial Safety and Fire Protection (88005, 88020)

Paragraph 3.1.2.4 of the license application requires that the Safety Component be responsible for industrial safety and fire protection. The inspector discussed this program with the cognizant Regulatory Engineer and reviewed the Westinghouse CFND-Columbia Safety Manual. The manual consists of procedures addressing program administration, industrial safety, and fire prevention and control. Controlled copies of the manual are issued to 59 plant departments.

No violations or deviations were identified.

13. Exit Interview

The inspection scope and results were summarized on December 15, 1989, with those persons indicated in paragraph 1. The inspector described the areas inspected and discussed in detail the inspection results listed below. Although reviewed during this inspection, proprietary information is not contained in this report. Dissenting comments were not received from the licensee.

Item Number	Description and Reference
(Closed) URI 88-02-01	Engineered controls for nuclear criticality safety. (paragraph 10)