



UNITED STATES
NUCLEAR REGULATORY COMMISSION

REGION II
SAM NUNN ATLANTA FEDERAL CENTER
61 FORSYTH STREET, SW, SUITE 23T85
ATLANTA, GEORGIA 30303-8931

October 16, 2006

Mr. Mark Fecteau
Manager, Columbia Plant
Westinghouse Electric Company
Commercial Nuclear Fuel Division
Drawer R
Columbia, SC 29250

SUBJECT: NRC INSPECTION REPORT NO. 70-1151/2006-009

Dear Mr. Fecteau:

This refers to the results of the above-referenced Nuclear Regulatory Commission (NRC) inspection conducted at your Columbia, South Carolina facility on September 18-22, 2006. The purpose of the inspection was to determine whether activities authorized by the license were conducted safely and in accordance with NRC requirements. At the conclusion of the inspection on September 22, 2006, the NRC inspector discussed the findings with members of your staff.

As a result of the inspection, the enclosed NRC Form 591FF, SAFETY INSPECTION REPORT, Parts 1 and 3, are being issued. The enclosed forms indicate that no violations were identified during the inspection of your licensed activities. Please retain the original Form 591FF Parts 1 and 3 for your files. No acknowledgment of this letter is required.

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter and its enclosure will be made available electronically for public inspection in the NRC Public Document Room or from the NRC's document system (ADAMS), accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html>.

Should you have any questions concerning this letter, please contact us.

Sincerely,
/RA/

Jay L. Henson, Chief
Fuel Facility Inspection Branch 2
Division of Fuel Facility Inspection

Docket No. 70-1151
License No. SNM-1107

Enclosure: (See page 2)

M. Fecteau

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Enclosure: NRC 591FF Parts 1 and 3

cc w/encl:

Marc Rosser, Manager
Environment, Health and Safety
Commercial Nuclear Fuel Division
Westinghouse Electric Corporation
P. O. Box R
Columbia, SC 29250

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ADAMS: X Yes ACCESSION NUMBER: _____

OFFICE	RII:DFFI	RII:DFFI	RII:DFFI				
SIGNATURE	OL 10/12/06	MC 10/13/06	JP 10/16/06				
NAME	OLopez	MCrespo	JPelchat				
DATE	10/ /2006	10/ /2006	10/ /2006	10/ /2006	10/ /2006	10/ /2006	10/ /2006
E-MAIL COPY?	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO

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SAFETY INSPECTION REPORT
AND COMPLIANCE INSPECTION

1. LICENSEE/LOCATION INSPECTED:

**Westinghouse Electric Company
Commercial Nuclear Fuel Division
Columbia, SC 29250**

2. NRC/REGIONAL OFFICE:

**U.S. Nuclear Regulatory Commission
Region II, Division of Fuel Facilities Inspection
61 Forsyth Street, Suite 23T85
Atlanta, GA 30303**REPORT NUMBER(S): **2006-009**

3. DOCKET NUMBER(S):

70-1151

4. LICENSEE NUMBER(S):

SNM-1107

5. DATE(S) OF INSPECTION:

09/18-22/2006**LICENSEE:**

The inspection was an examination of the activities conducted under your license as they relate to radiation safety and to compliance with the Nuclear Regulatory Commission (NRC) rules and regulations and the conditions of your license. The inspection consisted of selective examinations of procedures and representative records, interviews with personnel, and observations by the inspector. The inspection findings are as follows:

- ☒ 1. Based on the inspection findings, no violations were identified.
- ☐ 2. Previous violation(s) closed.
- ☐ 3. The violation(s), specifically described to you by the inspector as non-cited violations, are not being cited because they were self-identified, non-repetitive, and corrective action was or is being taken, and the remaining criteria in the NRC Enforcement Policy to exercise discretion were satisfied.

_____ Non-Cited Violation(s) was/were discussed involving the following requirement(s) and Corrective Action(s):

- ☐ 4. During this inspection certain of your activities, as described below and/or attached, were in violation of NRC requirements and are being cited. This form is a NOTICE OF VIOLATION, which may be subject to posting in accordance with 10 CFR 19.11.

(Violations and Corrective Actions)

Licensee's Statement of Corrective Actions for Item 4, above.

I hereby state that, within 30 days, the actions described by me to the inspector will be taken to correct the violations identified. This statement of corrective actions is made in accordance with the requirements of 10 CFR 2.201 (corrective steps already taken, corrective steps which will be taken, date when full compliance will be achieved). I understand that no further written response to NRC will be required, unless specifically requested.

Title	Printed Name	Signature	Date
LICENSEE'S REPRESENTATIVE			
NRC INSPECTOR	Omar R. López / Manuel Crespo	/RA/	10/16/06

**SAFETY INSPECTION REPORT
AND COMPLIANCE INSPECTION**

1. LICENSEE

**Westinghouse Electric Company
Commercial Nuclear Fuel Division
Columbia, SC 29250**

2. NRC/REGIONAL OFFICE

**U.S. Nuclear Regulatory Commission
Region II, Division of Fuel Facilities Inspection
61 Forsyth Street, Suite 23T85
Atlanta, GA 30303**REPORT NUMBER(S): **2006-009**

3. DOCKET NUMBER(S):

70-1151

4. LICENSE NUMBER(S):

SNM-1107

5. DATE(S) OF INSPECTION:

09/18-22/20066. INSPECTOR(S): **Omar R. López, Manuel Crespo**7. INSPECTION PROCEDURES USED: **88055-Fire Safety, 88045-Environmental Protection, 88035-Waste Management, 884900-Low Level Radioactive Waste Storage, 84850-Waster Generator Requirements.****SUPPLEMENTAL INSPECTION INFORMATION****Executive Summary**

The Westinghouse Fuel Facility fabricates low-enriched uranium fuel for use in commercial reactors. During the period of the inspection, all operations were normal.

This was a routine, announced inspection to evaluate the fire protection, environmental protection, radioactive waster management, low level radioactive waster storage, and radioactive waster generator requirements programs. The inspection involved observations of work activities, reviews of selected records, and interviews with plant personnel. The inspection identified the following aspects of the licensee programs as outlined below:

Fire Protection

- The inspectors reviewed last year's audit of the inspection and testing of fire systems and this year's insurer's audit. The licensee tracked and resolved in a timely manner the audit findings. The inspectors noted that the licensee plans to replace the hot oil system for a less hazardous system as a result of a findings during the insurer's audit.
- The inspectors reviewed selected fire safety systems, including Items Relied on for Safety for the calciner and sintering furnaces, and determined that they were implemented and maintained properly.

Executive Summary (continued)

- The process, equipment, and material storage areas were operated in accordance with fire safety requirements. The licensee adequately controlled combustible and flammable materials throughout the facility.
- The inspectors observed and discussed with operations personnel the handling of zirconium fines. No safety problems were observed.
- The inspectors reviewed the pre-fire plan for the chemical area. The inspectors noted minor discrepancies with the plan. The licensee acknowledged the discrepancies and planned to correct them.
- The inspectors reviewed the implementation of the hot work and impairment control programs. No safety problems were noted.
- The inspectors observed the testing of the sprinkler standpipe flow switches. The inspectors also reviewed the work package for the replacement of a section of the main fire water line. No problems were noted.
- The inspectors review a small fire that occurred at the incinerator and the corrective actions that the licensee took in response to the event. No safety problems were identified.

Environmental Protection

- The inspectors verified that no significant environmental program or procedure changes occurred since the last inspection. Internal audits were adequate. Surface water and air samples were being properly monitored, analyzed, and evaluated. The environmental monitoring program was being implemented in accordance with license requirements. Measurement procedures and sample chain-of-custody requirements were adequate. Procedures for the collection of samples were sufficiently detailed.
- The new Cylinder Washing Station was adequately controlled for operations and environmental protection. No significantly elevated ground water results were noted over the last few years from a beta, alpha, or chemical standpoint.

Low-Level Radioactive Waste Storage

- The licensee was properly implementing on-site storage requirements for waste.

Executive Summary (continued)

Radioactive Waste Management

- The liquid and airborne effluent management program effectively maintained effluent concentrations well below the limits specified in the license application and 10 CFR Part 20. The inspectors verified that no significant changes occurred since the last inspection for the airborne stack sampling systems, outfall sampling stations, and radioactive waste management program.
- The As Low As Reasonably Achievable Program for controlling liquid and airborne releases was effective. No regulatory limits were exceeded.

Radioactive Waste Generator Requirements

- Shipment records for solid waste disposal to licensed waste burial facilities were acceptable for determining radioactive nuclide quantities. Shipping manifests were complete and met the requirements of 10 CFR 20 and 61. Procedures were adequate to track waste shipments.

Temporary Instruction 2600/012:

- **IN-89-003, "Potential Electrical Equipment Problems:"** Licensee has adequately addressed the potential for electrical issues by designing and installing items relied on for safety (IROFS) that fail safe. The licensee verified this conclusion through a instrument and control failure state analysis review of the facility a few years ago.
- **IN-87-033, "Applicability of 10 CFR Part 21 to Non-licensees:"** The only safety grade equipment used by the facility is the safety process logic controller from Siemens. The licensee does not require Siemens to make Part 21 reports, however, the licensee is now on Siemen's mailing list for any issues with their equipment.
- **IN-86-077, "Computer Program Error Report Handling:"** The licensee is on the mailing list for any errors discovered by the vendors of the KENO software. The licensee adequately responded to some errors reported last year. No issues were noted.
- **IN-02-024, "Potential Problems with Heat Collectors on Fire Protection Sprinklers:"** Heat collectors were not part of the fire protection sprinkler systems.
- **IN-99-028-S1, "Recall of Star Brand Fire Protection Sprinkler Heads:"** The licensee did not use the recalled sprinkler heads and did not have them in stores.
- **IN-00-007, "National Institute of Occupational Safety and Health Respirator User Notice: Special Precautions for Using Certain Self-Contained Breathing Apparatus Air Cylinders:"** Based of interviews and observations the inspectors determined that the respirators affected by the notice were not used at the facility.
- **IN-99-007, "Failed Fire Protection Deluge Valves and Potential Testing Deficiencies in Pre-action Sprinkler Systems:"** Pre-action sprinkler systems were not part of the fire protection system for the facility. Therefore, the IN did not apply to the facility.

Items Opened, Closed, and DiscussedItem NumberStatusDescription

None