

INSPECTION REPORT

1. LICENSEE OR CERTIFICATE HOLDER/LOCATION INSPECTED: Westinghouse Electric Corporation Commercial Nuclear Fuel Division Columbia, SC 29250		2. NRC/REGIONAL OFFICE: U.S. Nuclear Regulatory Commission Region II 61 Forsyth Street, Suite 23T85 Atlanta, GA 30303-8931	
REPORT NO: 2009-004			
3. DOCKET NUMBER: 70-1151	4. LICENSE OR CERTIFICATE NUMBER: SNM-1107	5. DATE(S) OF INSPECTION: April 27, 2009 – May 8, 2009	

LICENSEE OR CERTIFICATE HOLDER:

The inspection was an examination of the activities conducted under your license or certificate as they relate to safety and/or safeguards and to compliance with the Nuclear Regulatory Commission (NRC) rules and regulations and the conditions of your license or certificate. 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. Reported events reviewed
- 4. 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):

- 5. 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)

SEE ATTACHED NOV

LICENSEE OR CERTIFICATE HOLDER STATEMENT OF CORRECTIVE ACTIONS FOR ITEM 5, ABOVE

I hereby state that, within 30 days, the actions described by me to the inspector will be taken to correct the violation(s) 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 the NRC will be required, unless specifically requested.

Title	Printed Name	Signature	Date
LICENSEE/CERTIFICATE HOLDER REPRESENTATIVE			
NRC INSPECTOR	Richard Gibson/ Chad Cramer	/RA/	5/27/09

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6. INSPECTOR(S): Richard Gibson and Chad Cramer

7. INSPECTION PROCEDURES USED: 88025, 88035 & 86740

EXECUTIVE SUMMARY

Summary of Plant Status

The Westinghouse facility converts uranium hexafluoride into uranium dioxide and fabricates fuel assemblies for use in commercial nuclear power reactors. During the inspection period, the plant was shutdown for a scheduled maintenance outage for one week and performing routine operations for the second week. This routine, announced inspection included evaluation of the radioactive waste management and transportation programs, and plant maintenance and surveillance of safety controls. The inspection involved observations of work activities, review of selected records, and interviews with plant personnel. The inspection identified the following aspects of the licensee programs as outlined below:

Waste Management

- The inspectors walked down the incinerator, lagoons, and solvent extraction. No issues were identified.
- The inspectors reviewed procedures for low level radioactive scrap, the incinerator, solvent extraction, the lagoons, sampling, incinerator off-gas treatment, and zirconium fine storage. The inspectors also discussed these procedures with operators, engineers, and management, no issues were identified.
- The radioactive waste management quality assurance program was in place and performing its intended function.
- The inspectors reviewed the waste classification process, waste form and characterization process, waste shipment labeling, and tracking of waste shipments. There were no issues identified.
- The inspectors determined that the licensee was meeting the requirements specified in 10 CFR 20 for caution signs, disposal requirements, disposal records, and incineration.
- While performing a walk-down of the low-level radioactive waste storage area, the inspectors identified twelve 55-gallon drums that were adjacent to each other without any spacing between the drums and without labels identifying the mass of uranium-235 (U-235) within each drum. NCS Posting ID: URRS19 was visibly posted in the area, and item three of the posting stated, "if grams U-235 has not been determined, maintain at least 12-inch spacing between drums." The inspectors also noticed that one 55-gallon drum contained a substantial amount of water and many of the drums had unsecured lids.

10 CFR 70.62 requires that each licensee shall establish a safety program that demonstrates compliance with the performance requirements. One of the elements of the safety program is management measures.

EXECUTIVE SUMMARY (Continued)

10 CFR 70.62(d) requires that each licensee establish management measures to ensure that items relied on for safety (IROFS) are designed, implemented, and maintained as necessary, to ensure that they are available and reliable to perform their intended function when needed.

IROFS STORAGE-URRS-110 requires that drums of material are to be stored with a minimum of 12" spacing until a mass of U-235 is obtained and recorded on the label, as stated in Procedure No. COP-831001. Also, IROFS STORAGE-URRS-111 requires the operator to inspect 55 gallon drums for visible moisture, as stated in the Integrated Safety Analysis (ISA). However, the licensee failed to have a method, such as a posting or procedure that required operators to inspect 55-gallon drums for visible moisture. Failing to establish management measures to ensure that IROFS STORAGE-URRS-110 and STORAGE-URRS-111 were available and reliable to perform their intended safety function is considered a violation of NRC requirements (Violation (VIO) 70-1151/2009-004-01).

Transportation

- Licensee procedures for shipping fuel assemblies, fuel rods, radioactive liquid, uranium hexafluoride, and radioactive waste were reviewed for adequacy. Inspectors interviewed engineers, operators, and managers on the procedures used for transportation and their knowledge of NRC and Department of Transportation (DOT) requirements. No issues were identified.
- The inspectors reviewed the licensee's procedures for receiving uranium hexafluoride P-10 sample tubes and ensuring that these samples are tracked appropriately once they have arrived onsite. No issues were identified.
- The certificates of compliance were current, including all the necessary design information and packaging criteria. Inspections of packaging were being conducted by the licensee in accordance with procedure requirements.
- Inspectors watched select transportation activities, such as receiving radioactive shipments and preparing shipments of fuel assemblies. No issues were identified.
- Transportation activities involving the shipment and receipt of uranium hexafluoride cylinders and nuclear fuel assemblies were conducted in accordance with the requirements of the license. The licensee ensured the appropriate documentation accompanied the packages being shipped. The licensee adequately recorded the required information on the packaging and shipping orders including the transportation index, package activity, labeling, and placards, when necessary.
- Quality assurance audits were being conducted in accordance with the license requirements.

Maintenance / Surveillance

- The inspectors interviewed personnel and reviewed records of work order packages for preventative and annual maintenance, and functional tests to ensure the adequacy of procedures and test frequency for adequacy of acceptance criteria.

EXECUTIVE SUMMARY (Continued)

- The inspectors observed maintenance activities at conversion Line 3 where maintenance personnel removed the old scrubber tank and replaced it with a new reinforced scrubber tank. The inspectors determined that the maintenance workers demonstrated adequate knowledge of the work order and performed work in accordance with the work orders and procedures. The inspectors also observed field activities associated with the 26 weeks conversion and Erbia bulk container inspections. In addition, the inspectors observed maintenance repairs on the powder lift for the Fitzmill on Line 3 and determined that the operators demonstrated adequate knowledge of the work order and performed work in accordance with the work orders and procedures.
- The inspectors reviewed maintenance records for various equipment designated as IROFS in the chemical areas. The inspectors noted the work orders were completed within the required time frames called out for these IROFS in the computerized maintenance management system (MAPCON). The inspectors also noted the work orders contained adequate instructions to perform calibrations of the IROFS. The inspectors determined that the results were within acceptance criteria.
- The inspectors reviewed the licensee's annual summary of safety significant controls/IROFS that had failed during the previous year. The inspectors determined that the formal review process was conducted annually and was in accordance with license requirements.

Exit Meeting Summary

The inspection scope and results were summarized on Wednesday, April 29 and Friday, May 8, 2009, with Cary Alstadt and members of his staff. No dissenting comments were received.

Key Points of Contact

<u>Name</u>	<u>Title</u>
C. Alstadt	Manager, Columbia Site
M. Rosser	Manager, Environment, Health and Safety
G. Couture	Manager, Licensing & Regulatory Program, EH & S
D. Precht	Manager, Operations
J. Peterson	Site Manager, Maintenance
T. Ross	Transportation Lead – UF6 GSCM Logistics
N. Kent	Manager, Licensing, Compliance & Package Tech.

List of Items Opened, Closed, Discussed

<u>Item Number</u>	<u>Status</u>	<u>Description</u>
VIO 2009-004-01	OPENED	Failure to establish management measures to ensure that IROFS STORAGE-URRS-110 and STORAGE-URRS-111 were available and reliable to perform their intended safety function when needed.