

INSPECTION REPORT

1. LICENSEE OR CERTIFICATE HOLDER/LOCATION INSPECTED:

Westinghouse Electric Company
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:

2009-002

3. DOCKET NUMBER:

70-1151

4. LICENSE OR CERTIFICATE NUMBER:

SNM-1107

5. DATE(S) OF INSPECTION:

March 16-18, & 23-26, 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)

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	R. Gibson/D. Hartland	/RA/	4/15/09

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6. INSPECTOR(S): R. Gibson, D. Hartland, R. Prince, O. Smith, L. Pitts (In-training), and P. Glenn (In-training)

7. INSPECTION PROCEDURES USED: 88020 and 88051

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, normal production activities were ongoing. This routine, announced inspection was to evaluate the licensee's operational safety program, and the licensee's response to a simulated emergency involving access to the Controlled Access Area (CAA) boundary, fires at two different locations, and a contaminated injured individual. The licensee's implementation of the Site Emergency Plan (SEP) and Emergency Plan Implementing Procedures (EPIPs), and interface with the offsite support agencies was evaluated for adequate protection of workers, the public, and the environment.

Operational Safety (88020)

- The inspectors observed operations, including the Conversion, Pelleting, and Recovery areas. Plant operations observed were performed in accordance with regulatory requirements. Housekeeping and contamination control in areas observed were also found to be adequate. Throughout the operating areas, postings were properly maintained and adhered to by plant staff.
- The inspectors observed licensee shift turnovers and area morning meetings. The information exchange adequately conveyed safety-related information, the status of operations, status and/or completion of work orders, and detailed any upcoming items related to safety and production. The inspectors also accompanied an operator on a scheduled round of his respective operating area and noted that operator was knowledgeable of his operating procedures and safety requirements.
- The inspectors followed-up on an event (EN 44928) that was reported to the NRC on March 23, 2009. The event was related to Safety Bulletin No. M-01-09-01 issued by General Electric regarding a deficiency with a particular model programmable logic controller (PLC). The licensee evaluated the bulletin for applicability and determined that this malfunction could result in degraded items relied on for safety (IROFS) on Pelleting Area Furnaces 1B, 2B, and 4C. This common mode failure was applicable to IROFS PELSINT-903, 904 and 905 and involved a potential failure to shut hydrogen supply valves when required. After review, the inspectors determined that the safety significance was low given that the furnaces were running at normal operating temperature (above auto ignition temperature) and that the failure mode was a rare occurrence, possible only during furnace cool down. Additionally, the licensee took prompt and adequate compensatory action by generating a special operating instruction to provide administrative control until firmware upgrades could be completed. The inspectors reviewed the licensee's 30 day written report and verified that the appropriate root cause was identified and that adequate corrective actions were implemented. In accordance with Section IV of the NRC

EXECUTIVE SUMMARY (Continued)

Enforcement Policy, this failure constitutes a violation of minor significance and is not subject to formal enforcement action. This item is closed.

- The inspectors observed testing of IROFS on a furnace not affected by the vendor manufacturing issue. The testing verified that the IROFS would have been able to perform their required safety function.
- The inspectors reviewed implementation of various IROFS and safety significant components (SSCs) for systems in the Pelleting, Conversion, and Recovery Areas. Items reviewed were adequately maintained per the integrated safety analysis (ISA) and other regulatory requirements.

Emergency Preparedness Exercise (88051)

- The inspectors reviewed the exercise objectives and the scenario and determined that they adequately and thoroughly exercised major elements of the SEP and implementing procedures. There were no issues identified.
- The inspectors observed that the initial emergency response to the exercise was adequate. Upon recognition of the event, the licensee's notification of the offsite emergency responders was consistent with its contingency procedures and emergency response plans. However, the inspectors observed there was a delay in offsite responders being granted access to the site. Licensee management agreed to review the issue and evaluate their process for improvement.
- The inspectors observed the performance of the Incident Commander (IC) and the response team during the exercise and determined that they performed in a manner that would have protected worker safety, controlled fires, and provided medical assistance to the contaminated individual. The inspectors also observed during the exercise that the IC established an effective unified joint command post between the licensee and the offsite agencies (e.g., Richland County Sheriff Department and the Columbia Fire Department).
- The inspectors observed the licensee's first responders handling of a potentially contaminated injured individual as part of the emergency exercise. Responders provided initial medical treatment to the individual, monitored the individual's vital signs, conducted a contamination survey, and prepared and transported the individual to an onsite medical facility to be transported later to a local hospital. The inspectors determined that the licensee personnel provided timely medical attention to the individual in accordance with the SEP implementing procedures and that they adequately assessed and diagnosed the medical condition of the individual.
- The inspectors observed the actions conducted by the Emergency Operation Center (EOC) management and staff, and determined that the appropriate Emergency Action Level was declared. The inspectors noted that emergency conditions were properly evaluated and protective actions appropriately recommended by the EOC. The inspectors also observed that the Emergency Director (ED) performed external notifications according to procedural requirements. A press release concerning the postulated event was issued in a timely manner.

Exit Meeting Summary

The inspection scope and results were presented on Wednesday, March 18, 2009, and on Thursday March 26, 2009 to Mr. Cary Alstadt and members of his staff.

EXECUTIVE SUMMARY (Continued)

List of Items Opened, Closed, Discussed

<u>Item Number</u>	<u>Status</u>	<u>Description</u>
VIO 70-1151/2008-04-01	Closed	Records of incidents and Post Incident Analyses (PIAs) not retained. Also, the SEP had not been formally updated. The inspectors interviewed licensee's representative and reviewed records of PIAs, reviewed the approved amendment to the SEP, and determined that the records were adequately maintained in accordance with the SEP procedures. In addition, the licensee incorporated an annual requirement into their electronic training and procedure system (ETAPS) to review and update the SEP. The last review and update was done on August 8, 2008. This violation is closed.
VIO 70-1151/2008-04-02	Closed	Failed to verify the operability of the meteorological station semiannually and calibrate the station biennially. The inspectors reviewed the amendment request to change the old fixed station for a portable meteorological station and determined that it was adequate. The inspectors noted that the licensee replaced the fixed station with a portable station and incorporated the instructions from the vendor's manual for operability and calibration. This violation is closed.
IFI 70-1151/2005-03-01	Closed	Review and verify adequacy of the corrective actions taken to resolve exercise weakness, including the performance of a remedial exercise. From observations of the emergency exercise, interviews with exercise participants, review of simulated drill records, and discussion at the Post Incident Analyses for this exercise, the inspectors determined that the licensee performance during the exercise was adequate. This IFI is closed.
VIO 70-1151/2007-401-01	Closed	Failure to conduct, on two occasions, an inspection of containers and seal integrity at the terminal port of import for shipments of SNM of low strategic significance. WEC in letter dated March 18, 2008 did not concur with one of the examples of the violation. In a revised response dated November 10, 2008, WEC indicated that it does not dispute that a violation occurred and provided the NRC with corrective actions. Based on interviews and review of documentation and corrective actions provided by the licensee for inspections 070001151/2007401 and 070001151/2008401, this violation is closed.
EN 44928	Closed	Degraded IROFS, condition of PLC used in Pelleting Area furnace. (This report, Summary, Operational Safety).