

(10-2003)  
10 CFR 2.201

## SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION

## 1. LICENSEE/LOCATION INSPECTED:

**Westinghouse Electric Company, LLC  
Hematite (Former) Fuel Manufacturing Facility  
3300 State Road P. Festus, MO. 63028**

## 2. NRC/REGIONAL OFFICE

**U.S. Nuclear Regulatory Commission  
Region III  
2443 Warrenville Road  
Lisle, Illinois 60532-4352**

REPORT

070-00036/06-001

## 3. DOCKET NUMBER(S)

070-00036

## 4. LICENSEE NUMBER(S)

SNM-00033

## 5. DATE(S) OF INSPECTION

November 15 - 17, 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, NUREG-1600, 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

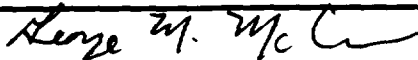
Signature

Date

LICENSEE'S  
REPRESENTATIVE

NRC INSPECTOR

George M. McCann, Senior Health Physicist



11/17/2006

**SAFETY INSPECTION REPORT  
AND COMPLIANCE INSPECTION**

## 1. LICENSEE

**Westinghouse Electric Company, LLC**REPORT NUMBER(S) **070-00036/06-001**

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**Region III  
2443 Warrenville Road  
Lisle, Illinois 60532**

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**November 15 - 17, 2006**

(Continued)

(10-2003)  
10 CFR 2.201**Docket File Information**  
**SAFETY INSPECTION REPORT**  
**AND COMPLIANCE INSPECTION**

1. LICENSEE <b>Westinghouse Electric Company, LLC</b> REPORT NUMBER(S) <b>070-00036/06-001</b>		2. NRC/REGIONAL OFFICE <b>Region III</b> <b>2443 Warrenville Road</b> <b>Lisle, IL 60532</b>	
3. DOCKET NUMBER(S) <b>070-00036</b>	4. LICENSE NUMBER(S) <b>SNM-00033</b>	5. DATE(S) OF INSPECTION <b>November 15 - 17, 2006</b>	
6. INSPECTION PROCEDURES USED <b>88005, 83822, 93001, 88035</b>		7. INSPECTION FOCUS AREAS	

**SUPPLEMENTAL INSPECTION INFORMATION**

1. PROGRAM CODE(S) <b>21215</b>	2. PRIORITY <b>D</b>	3. LICENSEE CONTACT <b>Tracy Chance, RSO</b>	4. TELEPHONE NUMBER <b>314-810-3329</b>
<input checked="" type="checkbox"/> Main Office Inspection		Next Inspection Date: <u>Summer 2007</u>	
<input type="checkbox"/> Field Office			
<input type="checkbox"/> Temporary Job Site			

**PROGRAM SCOPE**

The Westinghouse Electric Company former fuel manufacturing facility in Hematite, Missouri is a licensee that is preparing to begin decommissioning activities. The facility operated for approximately 47 years manufacturing fuel assemblies for commercial nuclear power stations. During that time, soil and groundwater were impacted by chemical and radiological constituents. The activities reviewed and evaluated during this inspection were related to the licensee's actions to characterize buried waste pits. The licensee contracted with Cabrera Services, Inc. (Cabrera) to gather additional information about the buried waste pits. This information included the lateral and vertical boundaries of the buried waste, as well as the potential spread of contamination to the surrounding soil. Waste pit characterization activities observed during this inspection involved direct-push and hollow-stem auger core boring, field-screening of removed cores for radiological contamination, and removal of core samples for laboratory analysis.

**PERFORMANCE OBSERVATIONS**

The NRC inspectors observed and evaluated against four inspection activities: Management Organization and Controls (IP 88055), Radiation Protection (IP 83822), OSHA Interface Activities (IP 93001), and Radioactive Waste Management (IP 88035). The NRC inspectors reviewed the following licensee documents used for the pit characterization activities: Westinghouse Electric Company, "Work Package #38, Pit Investigation Soils" (and attachments Appendix B, "Radiation Work Permit;" Attachment 1, Burial Pit Sample Locations; Attachment 2, "Push/Bore Fence Perimeter;" Attachment 3, "Aerial View of Burial Pits - corner locations;" Attachment 4, "Aerial view of pit locations - approximate center locations"); "Investigation Derived Waste Management Plan (Procedure no. PO-WM-003);" "Investigative Derived Waste Inventory Tracking System (Procedure No. PR-WM-004);" "Packaging Radioactive Material (Procedure PR-DO-19);" "Excavation/Penetration Permit (Procedure no. MCP-HE-HS-207);" and "Radioactive Material Handling (Procedure no. MCP-HE-OP-205)."

The inspectors performed interviews with licensee and contractor managers, supervisors and staff during the conduct of pit characterization activities. The inspectors also performed independent measurements on soil samples pulled from pit borings and previously-grouted bore-holes. The inspectors reviewed training, instrument, and data records during the inspection. Based on inspection findings, the inspectors concluded:

Management Organization and Controls: The inspectors concluded that the licensee's oversight of waste pit characterization activities was adequate and complied with procedural and NRC requirements. Additionally, the licensee demonstrated appropriate procedures and methods to oversee work by Cabrera, and displayed a positive working relationship.

Radiation Protection: The inspectors concluded that the licensee's procedures adequately monitored personnel and equipment that may potentially be exposed to radiation and/or contamination. The inspectors also observed security and safety measures designed to restrict access to the facility.

OSHA Interface Activities: The inspectors concluded that the licensee properly trained and monitored workers to prevent and protect against occupational and industrial hazards.

Radioactive Waste Management: The inspectors concluded that the licensee's activities to characterize, store, and survey wastes to be transported for disposal was in accordance with license requirements and procedures, as well as NRC regulations.

A representative from the Missouri Department of Natural Resources (MDNR) was on-site during the NRC inspection. At the conclusion of the inspection, the MDNR representative did not identify any environmental or chemical issues.