

April 7, 2010

CAL 3-08-005

Mr. E. Kurt Hackmann, Director
Hematite Decommissioning Project
Westinghouse Electric Company
Nuclear Fuels
3300 State Road P
Festus, MO 63028

SUBJECT: NRC INSPECTION REPORT 070-00036/10-02(DNMS) – WESTINGHOUSE
ELECTRIC COMPANY (HEMATITE)

Dear Mr. Hackmann:

On March 10-12, 2010, the U.S. Nuclear Regulatory Commission (NRC) conducted an inspection at the Westinghouse Hematite decommissioning facility (Inspection Report No. 070-00036/10-02(DNMS), enclosed). The purpose of the inspection was to determine whether decommissioning activities were conducted safely and in accordance with NRC requirements. Specifically, the inspection focused on the removal of materials from the Process Building as specified in the enclosure to the third addendum of the Confirmatory Action Letter (CAL 3-08-005) dated February 5, 2010. Within these areas, the inspection consisted of a selected examination of procedures and representative records, and interviews with personnel. The enclosed report presents the results of this inspection, which were discussed with your staff during an exit meeting on March 12, 2010.

Based on the results of the inspection, no violations were identified.

By letter dated December 4, 2009, Westinghouse Electric Company requested an exemption from 10 CFR 70.24(a) requirements pertaining to criticality monitoring systems. The NRC staff reviewed the exemption request and approved it in part by letter dated March 17, 2010 (see ADAMS ML100640138). As stated in the March 17 letter, the exemption did not include building demolition which will be addressed in subsequent NRC actions for the resolution of Hematite Amendment 52. However, based on the approval of the exemption request, the remaining two items (Items #5 and #8) in the third addendum of the Confirmatory Action Letter were satisfied. Therefore, by letter dated April 2, 2010, CAL 3-08-005C was closed (see ADAMS ML100920576).

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

E. Hackmann

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We will gladly discuss any questions you may have regarding this inspection. If you have questions, please feel free to contact Jeremy Tapp of my staff at (630) 829-9862.

Sincerely,

/RA/

Christine A. Lipa, Chief
Materials Control, ISFSI
and Decommissioning Branch

Docket No. 070-00036
License No. SNM-00033

Enclosure:
Inspection Report 070-00036/10-02(DNMS)

cc w/encl: Hematite Distribution Service List

E. Hackmann

-2-

We will gladly discuss any questions you may have regarding this inspection. If you have questions, please feel free to contact Jeremy Tapp of my staff at (630) 829-9862.

Sincerely,

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Docket No. 070-00036
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Enclosure:
Inspection Report 070-00036/10-02(DNMS)

cc w/encl: Hematite Distribution Service List

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*See previous concurrence

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U.S. NUCLEAR REGULATORY COMMISSION

REGION III

Docket No.: 070-00036

License No.: SNM-00033

Report No.: 070-00036/10-02(DNMS)

Licensee: Westinghouse Electric Company, LLC

Facility: Former Hematite Fuel
Manufacturing Facility

Location: 3300 State Road P
Festus, Missouri

Dates: March 10-12, 2010

Inspectors: William Snell, Senior Health Physicist

Approved by: Christine A. Lipa, Chief
Materials Control, ISFSI, and
Decommissioning Branch

Enclosure

EXECUTIVE SUMMARY

Westinghouse Electric Company, LLC HEMATITE FUEL MANUFACTURING FACILITY NRC Inspection Report 070-00036/10-02(DNMS)

This inspection evaluated the Westinghouse Electric Company's (WEC) performance related to decommissioning of the Hematite facility. Specifically evaluated was the removal of materials from the Process Building as specified in the enclosure to the third addendum of Confirmatory Action Letter (CAL 3-08-005) dated February 5, 2010.

Radiation Protection Program

The licensee's work activities in the Process Building were being conducted consistent with the items specified in the Confirmatory Action Letter (CAL 3-08-005C). No concerns were identified with the documentation and conduct of work activities associated with removing tools, equipment and waste from the Process Building. (Section 1.0)

Closeout Inspection and Survey

The inspector's review of the results of the radiological analysis of soil samples collected during inspection activities on November 19, 2009, determined the radionuclide concentrations were similar to the concentrations in samples collected by the licensee in the same area. The U.S. Nuclear Regulatory Commission (NRC) identified no concerns in regard to the Missouri Department of Transportation (MDOT) replacing a culvert located in front of the Westinghouse Hematite property. (Section 2.0)

Report Details

1.0 Radiation Protection Program (83822)

a. Inspection Scope

The inspector reviewed the licensee's implementation of the third addendum of CAL 3-08-005 as it related to the removal of materials from the Process Building.

b. Observations and Findings

A third addendum of CAL 3-08-005 was issued on February 5, 2010, in part to update the CAL for additional access to the Process Building to "remove tools and equipment, remove waste materials, and remove soil samples." An enclosure to the CAL provided a detailed list of the materials the licensee intended on removing from the building. The licensee provided the inspector with an annotated version of that list that indicated the items that had been surveyed and dispositioned since the issuance of the third addendum.

A number of items, such as light bulbs, circuit boards, and fire extinguishers, had been free released and moved to the universal waste area in the Building 230 warehouse. A fuel pellet had been removed and placed in a vault and added to the site's source inventory. Some of the other items such as tools that were expected to be reused had been moved to several storage rooms within the Process Building. However, the majority of the materials on the list had not yet been surveyed or assessed. Before most of the remaining materials would be removed the licensee needed to obtain contracts for the disposal of the waste. In addition, the licensee was in the process of preparing documentation to send 25 sea/land containers to Utah for waste disposal. (These sea/land containers held waste debris that had been returned to the Westinghouse Hematite site from Mississagua Metals and Alloys (MMA) in Canada in 2007 and were previously discussed in Inspection Report 070-00036/07-01(DNMS).)

The inspector reviewed Radiation Work Permit (RWP) No. RP-10-S002, Revision 1, that was written to address the conduct of housekeeping, radiological surveying and decontamination activities in the Process Building, as well as the removal of tools, equipments and waste material from the Building. Also reviewed were the Radiological Survey Reports from the tools, equipment and materials already assessed and removed from or stored within the Process Building.

During the inspection, the licensee was decontaminating a fork truck that was in the Process Building. The inspector reviewed Work Package WP-2010-004, Toyota Fork Truck Decontamination, Revision 0, associated with the work. Also reviewed as part of the Work Package were: RWP No. RP-10-S012, Rev. 0, issued March 9, 2010, the Activity Hazard Analysis for WP-2010-004, the Pre-Job ALARA Evaluation, the Quality Assurance Grading Plan, and the Training Attendance Sheet (Form HDP-PR-GM-020-2). In addition, the inspector toured the Process Building and observed the fork truck decontamination activities.

c. Conclusions

The licensee's work activities in the Process Building were being conducted consistent with the items specified in CAL 3-08-005C. No concerns were identified with the documentation and conduct of work activities associated with removing tools, equipment and waste from the Process Building.

2.0 Closeout Inspection and Survey (83890)

a. Inspection Scope

The inspector reviewed the results of the radiological analysis of soil samples collected during inspection activities on November 19, 2009.

b. Observations and Findings

Independent confirmatory surveys were conducted for the NRC by personnel from the Oak Ridge Institute of Science and Education (ORISE) of an area previously surveyed and sampled by the licensee. The area of interest is where the MDOT is scheduled to replace a culvert under the road in front of the site property. The ORISE personnel collected six soil samples, one upstream of the culvert, three just downstream of the culvert, and two approximately 200 meters downstream from the culvert. As previously stated in Inspection Report 070-00036/09-03, dated January 8, 2010 (ML100110569), surface scanning performed at the time the soil samples were collected identified no significant radiological contamination in excess of background.

The results of the analysis of the soil samples were provided to the NRC by letter from ORISE titled, *Final Independent Confirmatory Survey Report for the Culvert at the Hematite Decommissioning Project, Festus, Missouri*, dated March 8, 2010 (ML100750149). Comparing the radionuclide concentrations of uranium-235, uranium-238, thorium-228 and thorium-232 in the soil samples collected by ORISE with samples collected by the licensee determined the results were similar.

c. Conclusions

The inspector's review of the results of the radiological analysis of soil samples collected during inspection activities on November 19, 2009, determined the radionuclide concentrations were similar to the concentrations in samples collected by the licensee in the same area. The NRC identified no concerns in regard to the MDOT replacement of the culvert.

3.0 Exit Meeting Summary

The NRC inspectors presented inspection findings to members of the facility management team following the on-site inspection on March 12, 2010. The licensee acknowledged the findings presented.

ATTACHMENT: SUPPLEMENTAL INFORMATION

SUPPLEMENTAL INFORMATION

PARTIAL LIST OF PERSONS CONTACTED

Westinghouse Electric Company

E. Kurt Hackmann, Director, Hematite Decommissioning Project
G. Rood, Radiation Safety Officer
R. Reynolds, Manager, Quality Assurance
C. Finkenbine, HP Operations Supervisor

INSPECTION PROCEDURES USED

IP 83822 Radiation Protection
IP 83890 Closeout Inspection and Survey

ITEMS OPENED, CLOSED, AND DISCUSSED

Closed

None

Opened

None

Discussed

None

LIST OF ACRONYMS USED

ADAMS	Agencywide Documents Access and Management System
CAL	Confirmatory Action Letter
DNMS	Division of Nuclear Materials Safety
MDOT	Missouri Department of Transportation
MMA	Mississagua Metals and Alloys
NRC	U.S. Nuclear Regulatory Commission
ORISE	Oak Ridge Institute for Science and Education
RWP	Radiation Work Permit
WEC	Westinghouse Electric Company

cc: Westinghouse - Hematite Service List

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