

ENCLOSURE 6 - INSPECTION RECORD

NMED 130612 (Closed)

Region: III

Inspection Report No. 2016001

License No. SNM-00033

Docket No. 070-00036

Licensee: Hematite Decommissioning Project; Westinghouse Electric Company
3300 State Road P
Festus, Missouri 63028

Locations Inspected: 3300 State Road P; Festus, Missouri 63028

Licensee Contact: Kenneth Pallagi, Licensing/Security Manager Telephone No. 314-810-3353

Program Code: 21215 Priority: D

Type of Inspection: () Initial (X) Routine (X) Announced
() Special () Unannounced

Last Inspection Date: 05/06/2016 Date of This Inspection: 06/01/2016 – 06/03/2016

Next Inspection Date: TBD () Normal () Reduced

Justification for reducing the routine inspection interval:

In accordance with MC 2800 and MC 2602, Decommissioning Inspection intervals are based upon significant licensee work activities.

Summary of Findings and Actions:

- (X) No violations cited, clear U.S. Nuclear Regulatory Commission (NRC) Form 591 or regional letter issued
- () Non-cited violations (NCVs)
- () Violation(s), Form 591 issued
- () Violation(s), regional letter issued
- () Follow-up on previous violations

Inspector: Michael LaFranzo, Senior Health Physicist

/RA/
Signature

Date 06/27/2016

Inspector: Dr. Peter Lee, CHP, Health Physicist

/RA/
Signature

Date 07/05/2016

Inspector: Edward Kulzer, Health Physicist

/RA/
Signature

Date 07/05/2016

Approved: Michael Kunowski, Chief, MCID

/RA/
Signature

Date: 07/01/2016

PART I - LICENSE, INSPECTION, INCIDENT/EVENT AND ENFORCEMENT HISTORY

1. AMENDMENTS AND PROGRAM CHANGES SINCE LAST INSPECTION:

AMENDMENT # DATE SUBJECT

No Amendment changes since the last inspection.

The licensee is continuing to perform remediation, Final Status Surveys and waste disposal to support decommissioning of the site.

2. INSPECTION AND ENFORCEMENT HISTORY:

ITEMS OPENED, CLOSED AND DISCUSSED

| <u>Opened</u> | <u>Type</u> | <u>Summary</u> |
|--------------------------|-------------|--|
| VIO 07000036/2015004-001 | VIO | GWS 3-Inch Distance |
| URI 07000036/2015004-001 | URI | ALARA 10 CFR 20.1402 |
| URI 07000036/2015004-002 | URI | Survey Unit Reclassification |
| <u>Closed</u> | <u>Type</u> | <u>Summary</u> |
| VIO 07000036/2015003-004 | VIO | GWS 3-Inch Distance |
| VIO 07000036/2015004-001 | VIO | GWS 3-Inch Distance |
| IFI 07000036/2015001-001 | IFI | Contaminated Soil Under Natural Gas Pipeline |
| <u>Discussed</u> | <u>Type</u> | <u>Summary</u> |
| VIO 07000036/2015003-001 | VIO | Storm Water in LSA 02-01 |
| VIO 07000036/2015003-002 | VIO | Inadequate Survey Procedures |
| VIO 07000036/2015003-003 | VIO | 100 Percent of GWS |
| VIO 07000036/2015002-002 | VIO | Survey Unit Isolation Control |

No Escalated Enforcement was identified in the last two inspections. During this inspection, no violations or issues were discussed or addressed as documented above.

3. INCIDENT/EVENT HISTORY:

No open items or events were noted since the last routine inspection. NRC had reviewed the NMED Event 130612 during a previous inspection and considers the issue closed.

PART II - INSPECTION DOCUMENTATION

1. ORGANIZATION AND SCOPE OF PROGRAM:

Hematite Decommissioning Project; Westinghouse Electric Company is authorized under NRC License No. SNM-00033 to use licensed material as described in August 2, 2009 Decommissioning Plan and associated supporting documents noted in Hematite decommissioning Plan SER (ADAMS Accession No. ML112101630) and July 5, 2011 License Application (ADAMS Accession No. ML111880290).

The licensee is continuing to perform remediation, Final Status Surveys and waste disposal to ensure the facility can be released for unrestricted use in accordance with NRC regulations. The licensee plans to complete all remediation and the majority of waste disposal activities by July 2016. The development of Final Status Survey Reports is still on-going and the Reports shall be submitted to NRC for review in the future.

J. Smetanka, Managing Director, Hematite Decommissioning Project
G. Fussell, Deputy Director, Hematite Decommissioning Project
K. Pallagi, Licensing Manager/Security Manager
W. Clark, Radiation Safety Officer

2. SCOPE OF INSPECTION:

Inspection Procedure(s) Used: 83890

Focus Areas Evaluated: 03.01/03.03/03.04

The inspection was focused on performing confirmatory surveys in locations where the licensee had indicated Final Status Surveys had been performed by licensee personnel. However at this time, the Final Status Survey Reports have not been submitted to NRC for review and approval.

3. INDEPENDENT AND CONFIRMATORY MEASUREMENTS:

The inspectors performed sample radiological surveys of the following Building Survey Areas (BSA): 02-03, 02-04, 02-05, 02-06, 02-09, 02-11, 02-16, 02-22, and 02-23. The licensee considers these areas to be Class 1 for the purposes of radiological survey coverage and techniques. The inspectors also performed subsurface soil below BSAs 02-06, 02-09 and 02-22. The licensee considers these areas to be Class 2 for the purposes of radiological survey coverage and techniques. All surveys were performed in building 230.

During the inspection, the NRC identified isolated contamination in seven locations. One location was found in BSA 02-03, three in BSA 02-04, and three in BSA 02-23. Of the seven locations, six were found in the seams between poured concrete flooring. Of those six locations, contamination levels did not exceed 2,000 dpm/probe area. Within the seventh location found in BSA 02-23, isolated contamination levels were approximately 9,000-14,000 dpm/probe area and was found in a seam. While on-site, the licensee remediated the seventh location and disposed of the material as radioactive waste.

The inspectors used Ludlum model 44-10 and 44-9 probes to identify the above contamination.

The NRC noted that for the contamination within the seams, radiological contamination could have migrated through or around the seam seal and into the soil below the slab. Such contamination would not be identifiable from surface scans and should be addressed within the Final Status Survey Reports.

The inspectors also radiologically surveyed air intakes into building 230 from the roof. No significant radiological contamination was identified.

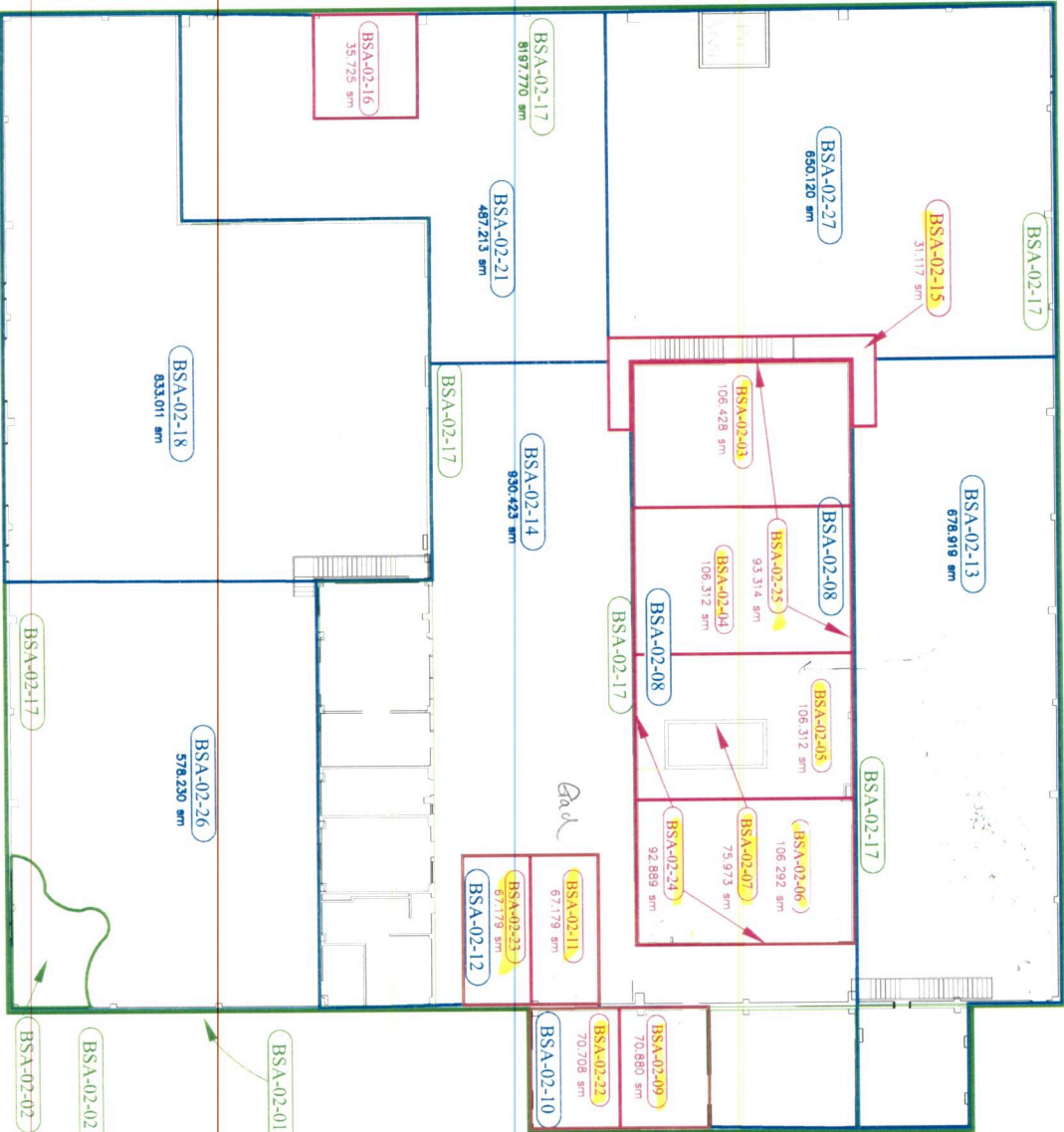
A diagram of the building which included the BSA locations and designations are attached to this report.

4. VIOLATIONS, NCVs, AND OTHER SAFETY ISSUES:

No violations or other safety issues were identified during the inspection.

5. PARTIAL LIST OF PERSONNEL CONTACTED:

- # J. Smetanka, Managing Director, Hematite Decommissioning Project
 - # G. Fussell, Deputy Director, Hematite Decommissioning Project
 - # K. Pallagi, Licensing Manager/Security Manager
 - # W. Clark, Radiation Safety Officer
- # Attended exit meeting on (date of exit meeting).



BSA-02-01 SUB-SURFACE SOIL
 BSA-02-02 EXTERIOR WALLS
 BSA-02-03 ROOF

LEGEND:

- █ CLASS 1 SURVEY UNIT
- █ CLASS 2 SURVEY UNIT
- █ CLASS 3 SURVEY UNIT

NOT SHOWN:

- PSA-03-02 BUILDING 230 FLOOR DRAINS
- BSA-02-20 VENTILATION DUCTING



Hematite Decommissioning Project
 Jefferson County
 Hematite, MO

| | | |
|---------------------|----------------|---------------------|
| PREPARED BY: KSD | REVISION: 3 | DATE: 01/13/2015 |
|---------------------|----------------|---------------------|

BUILDING 230 LAYOUT
 SURVEY UNIT LOCATIONS