ENCLOSURE 6 - INSPECTION RECORD

Region: III	inspection Report No. 2017002			Docket No.	
Licensee:	Hematite Decommissioning Project Westinghouse Electric Company 3300 State Road P Festus, Missouri 63028				
Locations Inspected: Festus, Missouri					
Licensee Contact: Kenneth Pallagi, Licens			nsing Manager	Telephone N	o. 314-810-3353
Program Cod	le: 21215				
Type of Inspe	ection:	() Initial () Special	(X) Routine	(X) Announce () Unannour	
Date of This Inspection: 10.16-20.2017 with continuing NRC review through 4.3.2018					
Next Inspection Date: NA			Decommissioning Inspections, as needed.		
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 (X) Follow-up on previous violations 					
Inspector(s)	Michael Lal	Franzo, Senior H	lealth Physicist Signature	Date _	4/6/18
Approved	Michael Kui	ngwski Chief, M	CID Singular	Date: _	April 6, 2018

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

1. AMENDMENTS AND PROGRAM CHANGES SINCE LAST INSPECTION:

AMENDMENT # DATE SUBJECT

None

2. INSPECTION AND ENFORCEMENT HISTORY:

The results of this inspection, NRC's future additional reviews of the licensee's Final Status Survey Reports and the licensee's responses have satisfied NRC's enforcement criteria at this time and, thusly, will close the below violations:

 Violations
 Summary

 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

The results of this inspection and NRC additional review of the licensee's Final Status Survey Reports will address NRC concerns at this time and will close the below Unresolved Items (URI):

URI's Summary

URI 07000036/2015004-001 ALARA 10 CFR 20.1402 URI 07000036/2015004-002 Survey Unit Reclassification

INCIDENT/EVENT HISTORY:

On 8/02/2013, the licensee reported an incident to the NRC concerning the potential discovery of concentrations of radioactive material exceeding limits in an unrestricted area (NMED Item Number 130612). The NRC had reviewed the report and determined that the item did not meet the threshold of a reportable event and the item shall be closed.

PART II - INSPECTION DOCUMENTATION

ORGANIZATION AND SCOPE OF PROGRAM:

Hematite Decommissioning Project is authorized under NRC Materials License No. SNM-00033 to perform decommissioning activities at the site located in Festus, Missouri. The site used to be a fuel fabrication facility from the 1950's to 2000. In addition to radiological surface soil and surface building contamination, the licensee was also required to remediate licensed material form burial pits. Radionuclides of concern consisted of Enriched Uranium, radium, thorium and Tc-99.

2. SCOPE OF INSPECTION:

Inspection Procedure(s) Used: 83890

Focus Areas Evaluated: 02.04; 03.03; 03.04

The inspection focused on NRC performing radiological confirmatory surveys in LSA's 10-05 and 10-14. The confirmatory survey consisted of performing core bores in predetermined locations and taking core soil samples and performing a logging of the core bore hole with a sensitive radiation detector. The licensee also took soil samples from the core which were analyzed for radiological and chemical content. Results are provided in Part II, Section 3 of this report.

3. INDEPENDENT AND CONFIRMATORY MEASUREMENTS:

On October 16-20, 2017, the NRC, with ORAU as the independent contractor, conducted core bore sampling within LSA's 10-05 and 10-14. The core bore process consisted of using a push core bore machine which allowed soil sampling at the appropriate depths once the soil was extracted. The soil sample was then sent to an independent laboratory and analyzed for radiological content.

Prior to abandoning the hole, which consisted of back-filling with an appropriate material, a sensitive radiation detector was lowered into the hole and slowly extracted taking radiation measurements along the way.

ORAU's Report titled "The Independent Confirmatory Survey Report for the Subsurface Investigations and Sampling of Survey Units LSA 10-05 and LSA 10-14 at the Hematite Decommissioning Project; Festus, Missouri" can be found within NRC's electronic database (ADAMS)(ML18024A876).

The licensee obtained soil samples from the core bores at the same time as ORAU personnel, but were not the same sample. The results of the licensee's analysis can be found in ADAMS (ML18086A494).

The NRC reviewed the data from ORAU and the licensee and found that radiological contamination levels did not appear to exceed the licensee's DCGL's.

In Part II, Section 2 of this report is a list of four violations and two URI that had been identified in previous inspections. The results of the confirmatory survey by NRC provide evidence that residual contamination that may have been transported via water from adjacent LSA's for potential inadequate surveys may not have significantly impacted the licensee's ability to release the site for unrestricted use. The NRC is continuing to review the licensee's Final Status Survey Reports and will use these confirmatory survey results to assist in its determination whether the site can be released for unrestricted use.

VIOLATIONS, NCVs, AND OTHER SAFETY ISSUES:

No violations of NRC requirements were identified.

PARIAL LIST OF PERSONNEL CONTACTED: 5.

- #
- Kenneth Pallagi Licensing Manager Clark Evers Radiation Safety Officer
- # Attended exit meeting on April 3, 2018.

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