

INSPECTION REPORT

1. LICENSEE OR CERTIFICATE HOLDER/LOCATION INSPECTED:

USEC Inc.
6903 Rockledge Drive
Bethesda, MD 20817

REPORT NO:

2010-005

2. NRC/REGIONAL OFFICE:

U.S. Nuclear Regulatory Commission
Region II
245 Peachtree Center Avenue, NE, Suite 1200
Atlanta, GA 30303-1257

3. DOCKET NUMBER:

70-7003

4. LICENSE OR CERTIFICATE NUMBER:

SNM-7003

5. DATE(S) OF INSPECTION:

October 18-21, 2010

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	J. Foster	/RA/	11/8/10

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6. INSPECTOR(S): J. Foster, C. Fisher

7. INSPECTION PROCEDURES USED: 88045, 88035

EXECUTIVE SUMMARY

Summary of Plant Status

- The Lead Cascade continued to run the test loop without enriching or withdrawing material during and prior to the inspections.
- The routine, announced inspection included a review of the environmental protection and waste management programs. The inspection involved interviews with staff, review of selected records, and the observation of equipment and systems.

Effluent Control and Environmental Protection (88045)

- The inspectors observed the material condition of both of the holding ponds and liquid effluent outfalls utilized by the Lead Cascade and determined the condition to be adequate. The inspectors verified that the liquid releases from the Lead Cascade were combined with the treatment systems and discharge points on the USEC Gaseous Diffusion Plant Reservation as specified in the license application. The inspectors examined a discharge map illustrating the discharge points of the stormwater collected from the plant and verified that the stormwater was discharged in the holding pond prior to effluent sampling and analysis. The inspectors verified that the licensee does not release liquid to a municipal sanitary sewer.
- The inspectors verified that the gaseous effluents produced by the Lead Cascade were vented through chemical absorbent prior to discharge through the process stack as required by the license application. The inspectors verified that the stack was continuously monitored with two alumina traps in series and an automated, alarming radiation monitor as required by the license application.
- The inspectors reviewed the 2009 National Emissions Standards for Hazardous Air Pollutants (NESHAP) report, a combined report issued by both the Lead Cascade and USEC. The inspectors verified that the Lead Cascade liquid outfalls and the Lead Cascade stack were included in the public dose assessment calculations and reported in the NESHAP report. The inspectors determined that the 2009 combined public dose for the Lead Cascade and USEC were below the 10 CFR 20.1301 and 10 CFR 20.1101(d) limits; 100 mrem/ yr from total dose and 10 mrem/ yr from gaseous effluents, respectively. The inspectors reviewed the public dose assessment specific to the Lead Cascade and determined that the licensee was below the ALARA goals established in their license application; 0.5 mrem/ yr from gaseous effluents and 0.05 mrem/ yr from liquid effluents.

EXECUTIVE SUMMARY (Continued)

- The inspectors interviewed staff and determined that there was no significant change in the program since the last inspection. The inspector reviewed a sample of Condition Notifications pertaining to the environmental area and determined that there were no problems of significance.

Radioactive Waste Management (IP 88035)

- The inspectors observed a small waste staging area located at the Lead Cascade. The Lead Cascade only had one temporary area of waste collection at the time of the inspection and did not contain a permanent waste storage area. The inspectors reviewed the postings and labels of the area and on the containers and determined both to be adequate.
- The Lead Cascade did not characterize or classify their radioactive waste as they transfer their waste to the USEC Gaseous Diffusion Plant for characterization, classification, and disposal.
- The inspectors interviewed staff and determined that no changes of significance were made to the waste management program since the last inspection.

Exit Meeting Summary

- The inspection scope and results were summarized on October 21, 2010, with members of the licensee staff. No proprietary information was identified.

Key Points of Contact

Name

T. Martin
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C. Hamilton

Title

ACP Regulatory
LCF/ ACP Regulatory Manager
Health Physics
ACP EH&S