

October 14, 2011

MEMORANDUM TO: Brian W. Smith, Chief  
Uranium Enrichment Branch  
Fuel Facility Licensing Directorate  
Division of Fuel Cycle Safety  
and Safeguards  
Office Nuclear Material Safety  
and Safeguards

FROM: Osiris Siurano, Project Manager **/RA/**  
Uranium Enrichment Branch  
Fuel Facility Licensing Directorate  
Division of Fuel Cycle Safety  
and Safeguards  
Office Nuclear Material Safety  
and Safeguards

SUBJECT: TRIP REPORT OF SEPTEMBER 12-15, 2011, SITE VISIT AT  
USEC INC. PIKETON, OHIO

On September 12-15, 2011, I participated in a site visit at USEC Inc. (USEC) in Piketon OH. I am enclosing the trip report for your consideration. The report does not contain Security-Related or Proprietary Information.

Docket Nos.: 70-7003, 70-7004  
License No.: SNM-7003, SNM-2011

Enclosure: As stated

cc: Peter Miner/USEC  
Terry Sensue/USEC

CONTACT: Osiris Siurano, NMSS/FCSS  
(301) 492-3117

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**ML11284A105**

<b>OFFICE</b>	FCSS/UEB	FCSS/FMB	FCSS/UEB
<b>NAME</b>	OSiurano	LAllen	BSmith
<b>DATE</b>	10/11/2011	10/12/2011	10/14/2011

**OFFICIAL RECORD COPY**

## **Trip Report: Site Visit to USEC Inc. Piketon, Ohio**

Date of Visit: September 12-15, 2011

Participants:

<u>NRC</u>	<u>USEC Inc.</u>			
C. Jones	D. Rogers	J. Corrado	G. Corzine	S. Fout
D. Hartland	K. Coriell	M. Robles	J. Bednarczyk	
P. Startz	T. Sensue	S. Eilertson	M. Hopper	
E. Cobie	J. Oppy	J. Thompson	B. Wiseman	
O. Siurano	D. Fosson	T. Medukas	S. Penrod	

Purpose:

The purpose of this visit was to participate in the following activities:

- 1) Inspection to evaluate the June 11, 2011, partial power failure event at the American Centrifuge Lead Cascade Facility (Lead Cascade) that resulted in the crash of 6 centrifuges.
- 2) Limited scope operational readiness review of USEC activities regarding the use and possession of source and byproduct material calibration sources.

Summary of Activities

Shortly after arriving at the facility, an entrance meeting with USEC and NRC staff was held to kickoff our activities and discuss the logistics for the inspection of the June 11, 2011, event and the operational readiness review regarding the possession and use of the source and byproduct material calibration sources.

Inspection of June 11, 2011, event

Following the kickoff meeting, the NRC staff proceeded to perform its inspection of the circumstances surrounding the June 11, 2011, event. The NRC staff reviewed documents, interviewed USEC staff, and visited specific areas within the American Centrifuge Plant (ACP) and the Lead Cascade to conduct their inspection and perform an evaluation of the event and USEC actions before, during and after the event. The NRC inspection activities onsite took place from Monday, September 12, to Thursday, September 15. However, due to the complexity of some of the NRC staff findings during the inspection that needed additional NRC staff evaluation and discussion, the onsite part of the inspection was finalized by NRC Region II staff during the week of September 19, 2011. The NRC staff, however, conducted a de-briefing of the onsite activities with USEC staff during the afternoon of Thursday, September 15. During this meeting, the NRC staff generally discussed their activities during the onsite inspection but did not discuss the inspection's findings.

### Operational Readiness Review

On Wednesday, September 14, 2011, the NRC staff conducted an onsite limited scope Operational Readiness Review (ORR) of USEC's activities regarding the possession and use of source and byproduct material calibration sources. This ORR was conducted as part of the NRC's review of USEC's request to use and possess these sources under its ACP license (see ADAMS Accession Document Number ML11160A088). The sources are used to support activities at the Lead Cascade. During the ORR, the NRC staff evaluated, among others, the ACP's activities for safely handling the sources, staff qualifications and experience, source control, records, and databases related to USEC's radiation control program. In addition, the NRC staff observed ACP staff performance and their adherence to ACP Procedure ACD2-HP-012, Radioactive Source Control, which describes the ACP's process and activities required for handling and managing the control of sealed radioactive calibration sources, as well as for inventory, labeling, storage, movement, integrity testing, purchasing, receiving, and disposal. During the ORR the NRC staff found no issues of concern. Additional information on the ORR and the NRC staff evaluation of USEC's request can be found under ADAMS Accession Document Number ML112640044).

### Follow-up Items:

No items that need follow-up actions were identified during this visit.

### Attachments:

None