



UNITED STATES  
NUCLEAR REGULATORY COMMISSION

REGION II  
SAM NUNN ATLANTA FEDERAL CENTER  
61 FORSYTH STREET, SW, SUITE 23T85  
ATLANTA, GEORGIA 30303-8931

April 24, 2008

Mr. Peter J. Miner, Director  
Regulatory and Quality Assurance  
USEC Inc.  
6903 Rockledge Drive  
Bethesda, MD 20817

SUBJECT: NRC INSPECTION REPORT NO. 70-7003/2008-002

Dear Mr. Miner:

This refers to the inspection conducted from March 24 - 28, 2008, at the Lead Cascade facility in Piketon, Ohio. The purpose of the inspection was to determine whether activities authorized by the license were conducted safely and in accordance with NRC requirements. At the conclusion of the inspection on March 28, 2008, the NRC inspectors discussed the findings with members of your staff.

As a result of the inspection, the enclosed NRC Form 591FF, Safety Inspection Report, Parts 1 and 3, is being issued. The enclosed form indicates that no violations were identified during the above described inspection of your licensed activities. Please retain the form in your files. No acknowledgment of this letter is required.

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

Should you have any questions concerning this letter, please contact us.

Sincerely,

/RA/

Jay L. Henson, Chief  
Fuel Facility Inspection Branch 2  
Division of Fuel Facility Inspection

Docket No. 70-7003  
License No. SNM-7003

Enclosure: NRC Form 591FF Parts 1 and 3

cc w/encl: (See page 2)

P. Miner

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cc w/encl:  
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PUBLICLY AVAILABLE       NON-PUBLICLY AVAILABLE       SENSITIVE       NON-SENSITIVE

ADAMS:  Yes    ACCESSION NUMBER: \_\_\_\_\_

OFFICE	RII:DFFI	RII:DFFI	RII:DFFI				
SIGNATURE	DH 4/24/08	JP 4/24/08	4/24/08				
NAME	DHartland	JPelchat	MCrespo				
DATE	4/ /2008	4/ /2008	4/ /2008	4/ /2008	4/ /2008	4/ /2008	4/ /2008
E-MAIL COPY?	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO

**SAFETY INSPECTION REPORT  
AND COMPLIANCE INSPECTION**

1. LICENSEE/LOCATION INSPECTED: USEC, Inc. 6903 Rockledge Drive Bethesda, MD 20617		2. NRC/REGIONAL OFFICE: <b>U.S. Nuclear Regulatory Commission Region II, Division of Fuel Facilities Inspection 61 Forsyth Street, Suite 23T85 Atlanta, GA 30303</b>	
REPORT NUMBER(S): 70-7003/2008-002			
3. DOCKET NUMBER(S): 70-7003	4. LICENSEE NUMBER(S): SNM-7003	5. DATE(S) OF INSPECTION: 3/24 - 28/2008	

**LICENSEE:**

The inspection was an examination of the activities conducted under your license as they relate to radiation safety and to compliance with the Nuclear Regulatory Commission (NRC) rules and regulations and the conditions of your license. 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. 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):

- 4. 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's Statement of Corrective Actions for Item 4, above.**

I hereby state that, within 30 days, the actions described by me to the inspector will be taken to correct the violations 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 NRC will be required, unless specifically requested.

Title	Printed Name	Signature	Date
LICENSEE'S REPRESENTATIVE			
NRC INSPECTOR	Manuel Crespo, John Pelchat	/RA/	4/24/08

**SAFETY INSPECTION REPORT  
AND COMPLIANCE INSPECTION**

1. LICENSEE

**USEC, Inc.  
6903 Rockledge Drive  
Bethesda, MD 20617**

2. NRC/REGIONAL OFFICE

**U.S. Nuclear Regulatory Commission  
Region II, Division of Fuel Facilities Inspection  
61 Forsyth Street, Suite 23T85  
Atlanta, GA 30303**

REPORT NUMBER(S): **70-7003/2008-002**

3. DOCKET NUMBER(S):

**70-7003**

4. LICENSE NUMBER(S):

**SNM-7003**

5. DATE(S) OF INSPECTION:

**3/24-28/2008**

6. INSPECTOR(S): Manuel Crespo, John Pelchat

7. INSPECTION PROCEDURES USED: 88035, 88050, 86740

**SUPPLEMENTAL INSPECTION INFORMATION**

**Executive Summary**

The United States Enrichment Corporation (USEC) Inc., Lead Cascade is a gas centrifuge test and demonstration facility that is located in existing buildings on the site of the Portsmouth Gaseous Diffusion Plant (GDP) in Piketon, Ohio. The Portsmouth GDP is operated by USEC, who leases the property from the Department of Energy. The area within Portsmouth that houses the Lead Cascade is subleased from USEC to USEC Inc. During the period of the inspection, centrifuge demonstration operations were in progress.

This was a routine, announced inspection that included observations and evaluations of the transportation, emergency preparedness, and radiological waste management programs. The inspection involved interviews with plant personnel, review of selected records, and observation of work activities. The inspection identified the following aspects of licensee's program as outlined below:

**Transportation (IP 86740) and Radiological Waste Management (IP 88035)**

- Personnel responsible for the shipment and receipt of material were knowledgeable of NRC, Department of Transportation, and applicable plant procedure requirements. Most transportation functions were performed by the GDP personnel.
- The licensee clearly delineated responsibility and procedures to the different organizations for the processing of radioactive waste at the facility. Most radiological waste shipment functions were handled by GDP personnel.
- Waste generation areas were observed to be adequately maintained.

**Emergency Preparedness (IP 88050)**

- The licensee made no major changes to the emergency preparedness program since the last inspection. Minor changes to the emergency plan reflected changes in personnel. These changes received the appropriate level of review and were appropriately communicated to affected on and off-site personnel.
- Interviews of off-site emergency response organization personnel indicated that the licensee routinely communicated with off-site agencies. It was noted that plant personnel visited each organization on a regular basis to update copies of the facility emergency plan. Training provided to on and off-site emergency responders met the requirements described in the integrated safety analysis (ISA).
- The inspectors observed an adverse weather drill. Plant personnel conducted an effective and open critique regarding the adequacy of procedures and the performance of plant personnel participating in the drill.
- The results of the emergency preparedness audit demonstrated that the licensee effectively assessed its emergency management program. Audits conducted by the licensee identified only minor issues that were captured and tracked in the corrective action system. The licensee adequately addressed all documented audit findings.
- Equipment relied on for emergency management was inspected, maintained, and tested in accordance with the license requirements. The licensee's implementing procedures incorporated the requirements described in the ISA and emergency plan.