



UNITED STATES  
NUCLEAR REGULATORY COMMISSION

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

February 21, 2006

Mr. Russ B. Starkey Jr.  
Vice President - Operations  
United States Enrichment Corporation  
Two Democracy Center  
6903 Rockledge Drive  
Bethesda, MD 20817

SUBJECT: NRC INSPECTION REPORT NO. 70-7002/2006-001

Dear Mr. Starkey:

This refers to the inspection conducted from February 6-10, 2006, at your Portsmouth Gaseous Diffusion Plant. The purpose of the inspection was to determine whether activities authorized by the certificate were conducted safely and in accordance with NRC requirements.

As a result of the inspection, the enclosed NRC Forms 591FF, Safety Inspection Report, are being issued. The enclosed forms indicate that no violations were identified during the inspection of your licensed activities.

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/ T. Decker acting for***

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

Docket No. 70-7002  
Certificate No. GDP-2

Enclosure: NRC Form 591FF Parts 1 and 3

cc w/encl: (See page 2)

R. B. Starkey, Jr.

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cc w/encl:

W. Jordan, Portsmouth General Manager

S. Penrod, Paducah General Manager

S. A. Toelle, Director, Nuclear Regulatory Affairs, USEC

R. M. DeVault, Regulatory Oversight Manager, DOE

R. J. Vranicar, Portsmouth Contracting Officer's Representative, DOE

C. O'Claire, State Liaison Officer

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X PUBLICLY AVAILABLE

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X NON-SENSITIVE

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

OFFICE	RII:DFFI	RII:DFFI					
SIGNATURE	DH for 2/17	DH 2/17					
NAME	WBritz	DHartland					
DATE	2/ /2006	2/ /2006	2/ /2006	2/ /2006	2/ /2006	2/ /2006	2/ /2006
E-MAIL COPY?	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO

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## SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION

1. CERTIFICATE HOLDER LOCATION INSPECTED:  
United States Enrichment Corporation  
6903 Rockledge Drive  
Bethesda, MD 20817

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 NO. 70-7002/2006-001

3. DOCKET NUMBER(S)

70-7002

4. CERTIFICATE HOLDER NUMBER

GDP-2

5. DATE(S) OF INSPECTION

February 6-10, 2006

**Certificate holder:**

The inspection was an examination of the activities conducted under your certificate as they relate to radiation safety and to compliance with the Nuclear Regulatory Commission (NRC) rules and regulations and the conditions of your 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. 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, NUREG-1600, 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)

**Certificate holder'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
CERTIFICATE HOLDER'S REPRESENTATIVE			
NRC INSPECTOR	Wayne L. Britz	D. Hartland for	2/17/06

## Docket File Information

**SAFETY INSPECTION REPORT  
AND COMPLIANCE INSPECTION**

1. LICENSEE <b>United States Enrichment Corporation 6903 Rockledge Drive Bethesda, MD 20817</b> REPORT NUMBER(S) 2006001		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>	
3. DOCKET NUMBER(S) 70-7002	4. LICENSE NUMBER(S) GDP-2	5. DATE(S) OF INSPECTION February 6-10, 2006	

## 6. INSPECTION PROCEDURES USED

## SUPPLEMENTAL INSPECTION INFORMATION

## PROGRAM SCOPE

The Portsmouth Gaseous Diffusion Plant had previously discontinued uranium hexafluoride (UF<sub>6</sub>) enrichment and is presently processing UF<sub>6</sub> to remove impurities and conducting other cleanup processes as part of the plant shutdown effort. During the period of the inspection, routine cleanup operations were conducted.

Inspection Procedure 83822 was used.

This routine, announced inspection included observations and evaluation of the radiation protection program. The inspection involved observations of work activities, reviews of selected records, and interviews with plant personnel. The inspection reviewed the following aspects of the certificate holder programs as outlined below:

**Radiation Protection**

- The certificate holder's implementation of the radiation protection program, procedures and audits were conducted in accordance with the regulations. Internal and external audits, self-assessments and the annual review of the radiation protection were performed as required.
- The As Low As Reasonably Achievable Program was conducted as required by the certificate and demonstrated a significant reduction in person-rem. Radiological exposures to workers and the public were documented and were a small fraction of the limits in 10 CFR 20.
- The implementation of the radiological instrumentation, respiratory protection equipment and survey programs were observed to be in accordance with the regulations.
- Field testing of HEPA filters was observed to be in compliance with procedural requirements. The prerequisite training had been conducted and documented in the training files.
- The implementation of the postings, labeling, controls, notifications and reports was observed to be in compliance with 10 CFR 19 and 20
- The corrective actions taken in response to a technetium contamination incident were reviewed and found to be thorough and effective.
- The corrective actions taken in response to previous boundary control issues continued to be effective and included enhanced training and "management by walking around."

### 591FF Part 3 (Cont'd)

#### Items Opened, Closed, And Discussed

<u>Item Number</u>	<u>Status</u>	<u>Description</u>
TI 2600/012	Closed	Review of Past Generic Communications. Based on interviews, documentation, and physical inspection of equipment, the inspector determined that the certificatee had taken appropriate actions to address the issues identified in Information Notice 95-051, "Recent Incidents Involving Loss of Control of Licensed Material."
Event Report 42170	Closed	Report to the National Response Center due to an oil spill. No material was released beyond the immediate area and clean-up was completed. There was no release of radioactive material, and this item is closed.
Event Report 42264	Closed	Safety system failure, high condensate level steam shutdown alarm on Autoclave No. 2 in Building X-343. The certificatee determined that the root cause of the restricted steam flow was due to a partially opened supply valve. As corrective action, the certificatee revised affected operating procedures to require monitoring of autoclave shell temperature and pressure during initial heat up. The inspector has no further issues, and this item is closed.