



**UNITED STATES
NUCLEAR REGULATORY COMMISSION**
REGION II
245 PEACHTREE CENTER AVENUE NE, SUITE 1200
ATLANTA, GEORGIA 30303-1257

January 15, 2014

Mr. Robert Van Namen
Senior Vice President, Uranium Enrichment
United States Enrichment Corporation
Two Democracy Center
6903 Rockledge Drive
Bethesda, MD 20817

SUBJECT: PADUCAH GASEOUS DIFFUSION PLANT – UNITED STATES ENRICHMENT
CORPORATION - NUCLEAR REGULATORY COMMISSION INTEGRATED
INSPECTION REPORT 70-7001/2013-005

Dear Mr. Van Namen:

The Nuclear Regulatory Commission (NRC) conducted an announced, routine inspection from October 1 through December 31, 2013 at the Paducah Gaseous Diffusion Plant. The purpose of the inspection was to review implementation of programs and procedures for fire protection. The inspection was conducted to determine whether certificate of compliance activities were conducted safely and in accordance with NRC requirements. The enclosed report presents the results of the inspection. The results were also discussed with members of your staff during an exit meeting held on October 4, 2013.

During the inspections, the staff examined activities conducted under your certificate of compliance as they relate to safety and compliance with the Commission's rules and regulations and with the conditions of your certificate. The inspection consisted of facility walk-downs; selective examinations of relevant procedures and records; interviews with plant personnel; and plant observations. Throughout the inspection, observations were discussed with your managers and staff. Based on the results of the inspection, no findings of significance were identified.

In accordance with Title 10 of the *Code of Federal Regulations* (10 CFR) 2.390 of 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 Agencywide Documents Access and Management System (ADAMS), which is accessible from the NRC Website at <http://www.nrc.gov/reading-rm/adams.html>.

Should you have any questions concerning this letter, please contact me at 404-997-4629.

Sincerely,

/RA/ M. Thomas for

Marvin D. Sykes, Chief
Projects Branch 2
Division of Fuel Facility Inspection

Docket No. 70-7001
Certificate No. GDP-1

Enclosure:
NRC Inspection Report 70-7001/2013-005
w/Attachment: Supplemental Information

cc: (See page 3)

Should you have any questions concerning this letter, please contact me at 404-997-4628.

Sincerely,

/RA/ M. Thomas for
 Marvin D. Sykes, Chief
 Projects Branch 2
 Division of Fuel Facility Inspection

Docket No. 70-7001
 Certificate No. GDP-1

Enclosure:
 NRC Inspection Report 70-7001/2013-005
 w/Attachment: Supplemental Information

cc: (See page 3)

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NAME	KKirchbaum	LPitts	JDiaz	MCrespo			
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cc:

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U.S. NUCLEAR REGULATORY COMMISSION

REGION II

Docket No: 70-7001

Certificate No: GDP-1

Report No: 70-7001/2013-005

Licensee: United States Enrichment Corporation

Facility: Paducah Gaseous Diffusion Plant

Location: Kevil, KY 42053

Dates: October 1 through December 31, 2013

Inspectors: L. Pitts, Senior Fuel Facility Inspector
K. Kirchbaum, Fuel Facility Inspector

Approved by: M. Sykes, Chief
Projects Branch 2
Division of Fuel Facility Inspection

Enclosure

EXECUTIVE SUMMARY

United States Enrichment Corporation
Paducah Gaseous Diffusion Plant
NRC Integrated Inspection Report 70-7001/2013-005
October 1 – December 31, 2013

Inspections were conducted by NRC regional inspectors during normal shifts in the area of fire protection. During the inspection period, limited operations were ongoing. This announced, routine inspection consisted of a selective examination of procedures and representative records, observations of activities, walk-downs of safety controls, and interviews with personnel. No safety significant findings were identified.

Safety Operations

- The fire protection systems were adequately maintained in accordance with site procedures. No findings of significance were identified.

Attachment

Key Points of Contact
List of Items Opened, Closed, and Discussed
Inspection Procedures Used

REPORT DETAILS

Summary of Plant Status

All uranium enrichment operations have been permanently terminated and enrichment equipment is being deactivated. The facility continued efforts to evacuate remaining uranium hexafluoride (UF₆) from the shutdown cascade equipment. The facility is continuing limited operations including UF₆ repackaging.

A. Safety Operations

1. Fire Protection Annual (Inspection Procedure (IP) 88055)

a. Inspection Scope and Observations

The inspectors reviewed Paducah Gas Diffusion Plant (PGDP) procedures and toured Buildings C-333, C-631, and C-331 to assess the material condition of fire protection equipment, systems, and features. The inspectors verified that flammable materials were stored in marked cabinets as specified in approved procedures and that housekeeping and the control of combustible materials were adequate and consistent with the approved procedures.

Discussions were held with the PGDP Fire Chief regarding fire department staffing and current United States Enrichment Corporation downsizing in preparation for transfer of facilities to the Department of Energy (DOE). Fire department staffing has not been affected by the reduction in force.

The inspectors reviewed records and interviewed PGDP personnel to verify that the observed fire protection systems were maintained in an adequate state of readiness and had been properly tested to verify their ability to perform their safety function. The inspectors determined that fire dampers, doors, and penetration seals were being maintained in a condition that would ensure they were available and reliable to perform their safety function as applicable. Also, the inspectors determined that fire hoses and portable extinguishers were provided at their designated locations and access was unobstructed.

The PGDP fire protection system out-of-service records were reviewed by the inspectors and determined that adequate compensatory measures had been put in place for out-of-service, degraded or inoperable fire protection equipment, systems or features.

The inspectors reviewed the PGDP corrective action program entries for the past 18 months and determined that the PGDP is identifying safety control fire protection operability problems at an appropriate threshold and entering them into the corrective action program. Also, the inspectors evaluated the completed corrective actions associated problems identified and determined that certificate holder's corrective actions were adequate.

b. Conclusion

No violations of NRC requirements were identified.

B. Exit Meeting

The inspection scope and results were presented to members of the licensee's staff at various meetings throughout the inspection and were summarized on October 4 to Mr. Sherrill Gunn, Operations Manager (Acting Plant General Manager), and his staff. No dissenting comments were received from the certificate holder. Proprietary information was discussed but not included in this report.

SUPPLEMENTAL INFORMATION

1. KEY POINTS OF CONTACT

Certificate Holder Personnel

<u>Name</u>	<u>Title</u>
S. Gunn	Operations Manager (Acting Plant General Manager)
V. Shanks	Regulatory Affairs Manager
M. Boren	Regulatory Affairs Manager
D. English	NS&Q Manager
G. Englert	Engineering Group Manager
K. Gordon	RCW Operations
B. Halicks	Shift Operations Manager
D. Howard	Chief of Fire Services
J. Lambert	Fire Protection Engineer
D. Snow	ES&H Manager
D. Stadler	Regulatory Engineer Lead
C. Willett	Maintenance Manager

McCracken County Personnel

<u>Name</u>	<u>Title</u>
D. Elrod	Fire Chief, West McCracken Fire District

2. LIST OF ITEMS OPENED, CLOSED, AND DISCUSSED

None

3. INSPECTION PROCEDURE USED

IP 88055 Fire Protection Annual