

INSPECTION REPORT

1. LICENSEE OR CERTIFICATE HOLDER/LOCATION INSPECTED: United States Enrichment Corporation 6903 Rockledge Road Bethesda, MD 20817		2. NRC/REGIONAL OFFICE: U.S. Nuclear Regulatory Commission Region II 61 Forsyth Street, Suite 23T85 Atlanta, GA 30303-8931	
REPORT NO: 2009-004			
3. DOCKET NUMBER: 70-7002	4. LICENSE OR CERTIFICATE NUMBER: GDP-2	5. DATE(S) OF INSPECTION: September 25, 2009 – October 1, 2009	

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	David Hartland		

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6. INSPECTOR(S): David Hartland, P Startz, and J. Foster

7. INSPECTION PROCEDURES USED: 86740, 88005, 88030, 88051, and 88070

EXECUTIVE SUMMARY

Summary of Plant Status

- The Portsmouth Gaseous Diffusion Plant had previously discontinued uranium hexafluoride (UF₆) enrichment and is presently processing UF₆ to remove impurities like technetium-99, and conducting other cleanup processes as part of cold shutdown efforts. During the period of the inspection, routine cleanup operations were conducted without incident.
- This was a routine, announced inspection that included review of the management organization and controls, waste management, transportation, and permanent plant modification programs and observations and evaluations of the graded biennial emergency exercise. 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.

Management Organization and Controls (IP 88005)

- The certificate holder's corrective action program was effective in detecting and correcting safety issues. Items were properly screened for significance, and adverse trends in regulatory performance were identified and being addressed.
- The certificate holder conducted periodic audits to assure that safety commitments were assessed at the appropriate frequency.
- The inspectors observed a Plant Operations Review Committee meeting. The inspectors noted that the required quorum was present and substantive discussions were held to assess the issue being reviewed.

Permanent Plant Modifications (IP 88070)

- The inspectors reviewed the implementation of the modification to install a portable electric heating device to provide auxiliary heat to Criticality Accident Alarm System cluster instruments in low ambient temperature locations (Buildings X-330 and X-333). The inspectors verified that the design information and safety analyses were in compliance with required design criteria.

EXECUTIVE SUMMARY (Continued)

- The inspectors verified that the modification was installed and system condition was consistent with the design basis, and that testing assured implementation of design and safety system functionality. The inspectors verified that design and licensing documents and operating procedures were updated to reflect the modification.

Evaluation of Exercises and Drills (IP 88051)

- The scenario developed for this exercise was challenging and provided a unique learning opportunity that adequately tested elements of the emergency response program.
- Overall, command and control by the Incident Commander (IC) was good. Accident assessment, event classification, and protective action recommendations were made in a timely and accurate manner. Dispatch of emergency teams was well-coordinated.
- The Emergency Operations Center (EOC) for the off-hours exercise was staffed and activated in a timely manner. Command and control by the Crisis Manager (CM) in the EOC was good. Notifications and other communications with off-site agencies were also timely and effective. Briefings by the CM to keep EOC personnel aware of the ongoing status of incident conditions were held at the appropriate frequency.
- Overall, technical issues were properly identified and resolved in a timely manner. However, staff did not evaluate the need to suspend liquid cylinder movement site-wide after a cylinder was ruptured (simulated) at the Extended Range Product Station.
- The exercise critique was a candid assessment of the response, and numerous items were identified by the certificate holder for program improvement and entered into the problem reporting system for tracking the completion of corrective actions.
- The certificate holder's performance in responding to the postulated accident was considered a successful demonstration of an emergency response program maintained in a state of operational readiness with personnel who were trained and familiar with procedures for implementing the Emergency Plan.

Radioactive Waste Management (IP 88035)

- The inspectors reviewed the delineation of responsibilities on the organization chart for the waste management department and found that the roles were clearly delineated. The inspectors reviewed the hiring justification for the Environmental Compliance and Waste Management position and found the position to be adequately filled. The inspectors reviewed several self assessments for the program and had no findings of significance.
- The inspectors toured the main radioactive waste storage area and various smaller satellite storage areas. The areas were well maintained and properly posted. The inspectors observed the radiological survey of the main waste storage area and reviewed survey maps. The survey was conducted in accordance with approved procedures.
- The inspectors verified that the certificate holder possessed a copy of the disposal site license conditions and determined that it met all applicable conditions.

EXECUTIVE SUMMARY (Continued)

- The inspectors observed the characterization of a radioactive waste package with the non-destructive assay box monitor and reviewed the raw data for the package measured. The characterization was conducted in accordance with approved procedures. The inspector reviewed radiation survey records for individual waste packages. No findings of significance were identified.
- The inspectors observed the loading of a transportation shipment and verified that the waste packages were properly classified and labeled in accordance with 10 CFR 61.55. The waste package characteristics were in accordance with 10 CFR 61.56 and the packages were accompanied by waste manifest forms. The manifest forms were filled out in accordance with Appendix G of 10 CFR 20.
- The inspectors verified that the certificate holder maintained proper records of waste package contents and time in storage. The certificate holder effectively utilized a computerized database to track the waste within the facility.

Transportation (IP 86740)

- The inspectors observed the loading, placarding, and radiation surveys of a transportation shipment. The shipment was appropriately placarded and the vehicle radiation and contamination levels were within the regulatory limits. The activities were conducted in accordance with approved procedures.
- The inspectors observed the inspection of an outbound truckload shipment and noted that the actions were in accordance with approved procedures.
- The carrier received the completed shipping papers for the shipment which included the required waste manifest. The carrier was adequately briefed on the materials involved.
- The inspectors verified that training of the personnel responsible for inspecting the transportation packages was current and documented in the computerized training database.
- The inspectors reviewed procedures for the receipt of a shipment. No findings of significance were observed.
- The inspectors verified that the certificate holder was maintaining records of past shipments which included the confirmation of shipment receipt. The inspectors reviewed five shipping records from the past year and found them to be consistent with the regulatory requirements. The inspectors also reviewed several examples of radiation surveys maps for past shipments. No findings of significance were identified.
- The inspectors reviewed a Nuclear Safety and Quality (NS&Q) audit of packaging and transportation, training, handling, shipment, receiving and delivery. The inspectors also reviewed several issues in the corrective action program. No issues of significance were identified.

Exit Meeting Summary

- The inspection scope and results were summarized on Thursday, October 1, 2009, with members of the certificate holder staff. No proprietary information was identified.

EXECUTIVE SUMMARY (Continued)

Key Points of Contact

<u>Name</u>	<u>Title</u>
Russell Starkey	General Manager
Barbara Halcomb	Environmental Compliance and Waste Management
Marty Karr	Manager of Packaging and Transportation
James Anzelmo	Technical Services Director
Toni Brooks	Infrastructure Director

List of Items Opened, Closed, Discussed

<u>Item Number</u>	<u>Status</u>	<u>Description</u>
45208	Closed	Alert declaration due to fire lasting greater than 15 minutes in an abandoned cooling tower under DOE regulatory jurisdiction