



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

July 26, 2011

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

**SUBJECT: NUCLEAR REGULATORY COMMISSION INSPECTION REPORT  
NO. 70-7001/2011-003**

Dear Mr. Van Namen:

This letter refers to the results of the above-referenced Nuclear Regulatory Commission (NRC) inspection conducted at the United States Enrichment Corporation, Paducah Gaseous Diffusion Plant in Paducah, KY from April 1 through June 30, 2011. The purpose of the inspection was to determine whether activities authorized by the certificate were conducted safely and in accordance with NRC requirements. The NRC inspectors discussed their findings with members of your staff at exit meetings held on April 19, 2011 for the Management Organization and Controls inspection, on May 12, 2011 for the Operator Training inspection, on May 26, 2011 for the Permanent Plant Modification inspection, on June 9, 2011 for the Annual Fire Protection and Operational Safety inspections, and on July 15, 2011 for this integrated inspection report.

These inspections were examinations of 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 of compliance. Areas examined during the inspections are identified in the enclosed report. Within these areas, the inspection consisted of a selective examination of procedures and representative records, observations of activities, and interviews with personnel.

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter and 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>.

R. Van Namen

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

Sincerely,

*/RA/*

Joselito O. Calle, Chief  
Fuel Facility Inspection Branch 2  
Division of Fuel Facility Inspection

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

Enclosure: NRC Inspection Report No. 70-7001/2011-003

cc w/encl:  
Steve Penrod  
Vice President & General Manager  
Paducah Gaseous Diffusion Plant  
United States Enrichment Corporation  
Electronic Mail Distribution

Jim Lewis  
Plant Manager  
Paducah Gaseous Diffusion Plant  
United States Enrichment Corporation  
Electronic Mail Distribution

Vernon Shanks  
Manager, Nuclear Regulatory Affairs  
Paducah Gaseous Diffusion Plant  
United States Enrichment Corporation  
Electronic Mail Distribution

cc w/encl: (Cont'd on page 3)

R. Van Namen

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cc w/encl: (Cont'd on page 3)

PUBLICLY AVAILABLE       NON-PUBLICLY AVAILABLE       SENSITIVE       NON-SENSITIVE

ADAMS: X Yes      ACCESSION NUMBER: ML112070655      X SUNSI REVIEW COMPLETE X FORM 665 ATTACHED

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DATE	7/25/11	7/25/11	7/25/11	7/25/11	7/25/11	7/25/11	7/26/11
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OFFICIAL RECORD COPY      DOCUMENT NAME: G:\DNMSI\FFBII\REPORTS\DRAFT INSPECTION REPORT FOLDER\PADUCAH\70-7001-2011-003 LETTER - EXEC SUMMARY - REPORT JOE COMMENTS INCORPORATED.DOCX

Mark Keef  
General Manager  
Portsmouth Gaseous Diffusion Plant  
United States Enrichment Corporation  
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275 East Main Street  
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Frankfort, KY 40601-0001

R. Van Namen

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Letter to Mr. Robert Van Namen from Joselito O. Calle dated July 26, 2011

Subject: NRC INSPECTION REPORT NO. 70-7001/2011-003

Distribution w/encl:

T. Hiltz, NMSS  
J. Calle, RII  
D. Hartland, RII  
T. Liu, NMSS  
M. Miller, PGDP  
R. Russell, PGDP

**U.S. NUCLEAR REGULATORY COMMISSION**

**REGION II**

Docket No.: 70-7001

Certificate No.: GDP-1

Report No.: 70-7001/2011-003

Certificate holder: United States Enrichment Corporation

Facility: Paducah Gaseous Diffusion Plant

Location: Kevil, KY 42053

Dates: April 1 through June 30, 2011

Inspectors: D. Edwards, Construction Project Inspector  
G. Goff, Fuel Facility Inspector  
D. Hartland, Senior Project Inspector  
M. Miller, Senior Resident Inspector  
R. Prince, Senior Resident Inspector  
R. Russell, Resident Inspector  
P. Startz, Fuel Facility Inspector

Approved by: J. Calle, Chief  
Fuel Facility Inspection Branch 2  
Division of Fuel Facility Inspection

Enclosure

## **EXECUTIVE SUMMARY**

United States Enrichment Corporation  
Paducah Gaseous Diffusion Plant  
NRC Integrated Inspection Report 70-7001/2011-003  
April 1 – June 30, 2011

U.S. Nuclear Regulatory Commission (NRC) resident inspectors and regional inspectors from the Region II office conducted inspections at the Paducah Gaseous Diffusion Plant (PGDP) during normal and off normal shifts in the areas of management organizations and controls, operator training, operational safety, maintenance and surveillance of safety controls, fire protection, permanent plant modifications, and configuration control. The inspectors performed a selective examination of activities which was accomplished by direct observation of safety significant activities and equipment, tours of the facilities, interviews and discussions with personnel, independent verification of safety system status and limiting operation conditions, corrective actions, and a review of facility records. The NRC's program for overseeing the safe operation of uranium enrichment facilities is described in Manual Chapter (MC) 2600, "Fuel Cycle Facility Operational Safety and Safeguards Inspection Program," dated March 21, 2008.

The inspection scope and results for this integrated inspection report, were summarized on July 15, 2011, with Steve Penrod and members of his staff in an exit meeting. The inspectors asked the certificate holder staff whether any materials examined during the inspection should be considered proprietary. No proprietary information was identified.

### **Management Organization and Controls**

The certificate holder's problem identification and resolution program was adequately implemented in accordance with approved procedures. The tracking, trending, and closure of issues were commensurate with the safety significance of issues. An appropriate threshold for identifying and entering issues into the problem identification and resolution program was established.

Safety committee meetings were held in accordance with established schedules and action items adequately assessed and addressed based on safety significance. Controls for the issuance, distribution, and revision of controlled copies of procedures were adequately implemented. (Section 2)

### **Operator Training**

The certificate holder's training program for cascade operators was implemented in accordance with approved procedures. The training program was developed and implemented in accordance with the Systematic Approach to Training to meet regulatory requirements. Training sessions were effective and conducted by qualified instructors. Training records for qualified operators were current. (Section 3)

### **Operational Safety**

The inspectors observed routine operations throughout the plant and reviewed the maintenance and operability determinations for the High Pressure Fire Water Storage Tank. The inspectors also walked down a significant portion of the plant and interviewed operators, trainees, and members of plant management. The inspectors also reviewed audits and surveillances associated with operations, training, and material condition of the plant (Section 4)

### **Maintenance and Surveillance of Safety Controls**

The inspectors observed maintenance and surveillance activities in Buildings C-315, C-333, and C-335. The inspectors observed the preparation and implementation of a log-out/tagout for the High Pressure Fire Water System including verifying the associated valve lineup. The inspectors interviewed the responsible system engineers associated with these evolutions. (Section 5)

### **Fire Protection (Annual)**

The inspectors performed an annual fire protection inspection to evaluate the operational status and material condition of the certificate holder's fire protection program and systems. The inspectors reviewed the adequacy and effectiveness of the following programmatic aspects: (1) controls of combustibles and ignition sources; (2) operability of the fire detection and suppression equipment and systems; (3) material condition of fire protection features; and (4) the effectiveness of compensatory measures when required. The inspectors reviewed the condition and status of fire and emergency response equipment at the onsite fire department and the readiness and qualifications of fire brigade members. (Section 6)

### **Permanent Plant Modifications**

The inspectors reviewed the implementation of three modifications made in response to non-significant nuclear criticality safety violations and one modification for the Toll Transfer & Sampling Building ventilation interlock with respect to installation, consistency with the design basis, and post modification testing. (Section 7)

### **Configuration Control**

The inspectors reviewed the configuration control program and plant operation review committee packages, and attended plant operation review committee meetings. (Section 8)

### **Attachment**

Partial List of Persons Contacted

Inspection Procedures Used

List of Items Opened, Closed, and Discussed

## REPORT DETAILS

### 1. Summary of Plant Status

The certificate holder performed routine operations and maintenance throughout the inspection period. Plant load was maintained at the summer load levels and assay was according to the production schedule throughout this inspection period.

### 2. Management Organization and Controls (88005 and 88105)

#### a. Scope and Observations

The inspectors discussed the current organization with the certificate holder management and noted that several organizational changes had been made since the last inspection of management organization and controls. The inspectors discussed the process utilized by the certificate holder to ensure that individuals appointed to positions described in the Safety Analysis Report (SAR) met the applicable qualification requirements. Based on a review of documentation and discussions with certificate holder personnel the inspectors determined that adequate measures have been established to ensure that qualifications and work experience requirements were reviewed and verified prior to appointing individuals to the applicable positions.

The inspectors reviewed the certificate holder's corrective action program procedures. Program requirements adequately addressed the identification, reporting, tracking and closure of assessment and tracking reports (ATRs). The inspectors reviewed the daily ATR summary reports covering a period of several weeks. The inspectors noted that the threshold for identifying and entering issues into the problem identification and resolution program was appropriate. Based on discussions with certificate holder personnel and a review of applicable documents, the inspectors determined that ATRs were adequately screened for safety significance and appropriate corrective actions identified.

Plant operations review committee meetings were regularly scheduled. Meetings were conducted in accordance with approved procedures with the required quorum of members present. Presenters were prepared and agenda items were appropriately reviewed. The inspectors determined that the plant operations review committee was functioning in accordance with plant procedures and certificate requirements.

The inspectors reviewed selected conditions adverse to quality and significant conditions adverse to quality reports for completeness and accuracy. The inspectors determined that incident investigation reports adequately identified apparent and root causes of an event. Investigation reports were developed, reviewed, and corrective actions identified and assigned in accordance with the certificate holders corrective action program.

The inspectors reviewed the certificate holder's program associated with the issuance of procedures and controls with respect to procedure revisions. Administrative requirements describing the procedure review, distribution and control, and approval processes were established. The inspectors interviewed personnel responsible for the procedure control program and determined that personnel were knowledgeable of program requirements and their responsibilities. Controls for the issuance and distribution of controlled copies of procedures were adequately implemented.

b. Conclusions

No findings of significance were identified.

3. **Operator Training (88010)**

a. Scope and Observations

The inspectors reviewed the certificate holder procedures that established and described the requirements associated with the implementation of a Systematic Approach to Training program. USEC was required by 10CFR76.95 to establish a training program based on a systems approach to training. Based upon review of documentation and discussions with individuals responsible for the maintenance and implementation of the training program, the inspectors determined that the certificate holder's program met regulatory requirements.

The inspectors reviewed the certificate holder internal self-assessments of the training program performed since the last inspection. The inspectors noted that the self assessments were comprehensive and addressed key elements of a systematic approach to training program. The threshold for the identification of issues and findings was adequate with the findings entered into the certificate holder's corrective action program for tracking and closure.

The certificate holder's on-the-job training (OJT) sessions were governed by procedures and various checklists that covered the OJT process and detailed the required modules that trainees had to successfully complete during the OJT portion of their qualification program. The OJT training modules included the method of training such as discuss, simulate, or perform specific modules. The inspectors noted that the OJT training packages provided references to supporting procedures and documents and were subjected to the appropriate review and approval mechanisms.

The inspector observed several OJT sessions. The certificate holder utilized the services of several contractor individuals to support the OJT program. The contractor OJT trainers were previous USEC operators with extensive Gaseous Diffusion Plant (GDP) operations experience. Based on review of documentation and instructor training records, the inspectors determined that the contractor OJT instructors were qualified in accordance with the certificate holder's instructor training program. The inspectors noted that OJT sessions were conducted in accordance with approved procedures and the use of experienced operators contributed to the overall quality and effectiveness of the training sessions.

The inspectors reviewed operator training records and selected examinations. The inspectors noted that administrative controls had been established and implemented to prevent compromising examination bank questions. Adequate protocols had been established in accordance with approved procedures governing classroom conduct while examinations were in progress. The inspectors concluded that operator training was current and any restrictions relating to training were appropriately notated and controlled in accordance with the certificate holder's program.

The inspectors reviewed the process for granting training waivers based on an individual's previous experience and training. Justifications for granting waivers were documented and approved in accordance with approved procedures.

b. Conclusions

No findings of significance were identified.

4. **Operational Safety (88020 and 88100)**

a. Scope and Observations

The inspectors observed routine operations and conducted walkdowns during this inspection period in the central control facility, the process buildings, the purge & product building, the surge & waste building, the toll transfer & sampling building, and both of the feed vaporization facilities. The inspectors observed routine maintenance of the high pressure fire water system and reviewed the status of the system's operability in the certificate holder's computer tracking system, iPlant. The inspectors assessed operations personnel alertness and general knowledge of equipment status associated with their assigned facilities. The inspectors conducted interviews with building managers, first line managers, operators, and operator trainees regarding safety training and procedures for handling safety issues. While conducting plant tours, the inspectors noted that housekeeping and the legibility of radiological signs were adequate.

Inspectors also reviewed the following audits and surveillances:

KP-OP-2010-A257, "Operations", December 16, 2010  
 KP-OP-S08028, "Cold Weather Operations", December 22, 2008  
 KP-OP-S10001, "Shift Operations", March 22, 2010  
 KP-TR-S10016, "SAT Training", December 23, 2010  
 KP-MG-S10018, "Material Condition", December 20, 2010  
 KP-TR-S10014, "Non-SAT Training", December 28, 2010

The inspectors determined that all required notices to workers were appropriately and conspicuously posted in accordance with 10 CFR 19.11 and 10 CFR 21.6. The inspectors confirmed that the certificate holder met the requirement to conspicuously post copies of NRC Form-3, "Notice to Employees," in sufficient quantities and locations to permit workers engaged in licensed activities to observe them on the way to or from any activity location to which the document was applicable.

The inspectors reviewed shift staffing work sheets and observed control room personnel and determined that proper control room staffing was maintained, access to the control room was properly controlled, and operator behavior was commensurate with the plant configuration and plant activities in progress.

The inspectors reviewed control room and plant shift superintendent log books, daily operating instructions, and corrective action program entries to assess operating trends and activities and to note any out-of-service safety systems.

The inspectors toured portions of the upper cascade, lower cascade, and UF<sub>6</sub> handling areas on a daily basis ensuring that the entire plant was toured each month.

The inspectors checked general plant areas for unauthorized storage of flammable material or excessive fire loads.

The inspectors assessed the operability of selected safety equipment by reviewing the lockout-tagout sheets for selected systems. For recent lockout-tagouts, the inspectors verified that the systems were properly returned to the normal configuration.

The inspectors selected two safety-related lockout-tagouts in effect and independently verified they were properly prepared and implemented. The inspectors verified the proper selection and placement of tags on breakers, switches, and valves. Additionally, the inspectors verified that tagged components were in the required positions.

b. Conclusions

No findings of significance were identified.

5. **Maintenance and Surveillance of Safety Controls (88025, 88102, and 88103)**

a. Scope and Observations

Inspectors observed the certificate holder as it performed the following:

- testing the availability of nitrogen to an automatic cylinder valve closure system in the surge & waste building,
- functional testing of the automatic cylinder valve closure system in the surge & waste building,
- calibration of the distributive process inventory control system, including the associated process control module, for a freezer/sublimator in process Building C-333,
- walk-down and subsequent lock-out/tag-out of a fire safety water supply system for process Building C-335, and
- maintenance conducted on an uninterruptable power source in process Building C-333

As applicable for the above, inspectors observed prejob briefs; verified the latest edition of the procedure; verified the use of an approved work package; and confirmed the tasks were performed at the required frequency. For the calibration and subsequent functional test of the automatic cylinder valve closure system in the surge & waste building, inspectors noted the effectiveness of the communication between the technicians and operators and the involvement of the supervisors.

Inspectors observed the preparation and subsequent implementation of a lockout/tagout on fire system post indicator valves. The inspectors noted that the valve positions were consistent with the valve lineup checksheet.

The inspectors noted that the workers used the vendor's technical manual as the procedure for the maintenance of the uninterruptable power supply in process Building C-333 and that the instructions were adequately implemented.

The inspectors interviewed the two system engineers who were responsible for the surveillance and maintenance activities observed. One engineer demonstrated how the certificate holder tracked equipment, components, and instrumentation that may have been prone to malfunction or may have required frequent maintenance. The other engineer demonstrated how personnel could access the latest procedures, instructions, and drawings using the certificate holder's intranet site.

During the observation of maintenance and surveillance activities, the inspectors verified that: activities observed were performed in a safe manner; testing was performed in accordance with procedures; measuring and test equipment were within calibration due dates; technical safety requirements manual limiting conditions for operation were entered, when appropriate; removal and restoration of the affected components were properly accomplished; test and acceptance criteria were clear and conformed with the technical safety requirements manual and the safety analysis report; and deficiencies or out-of-tolerance values identified during the testing were documented, reviewed, and resolved by appropriate management personnel.

b. Conclusions

No findings of significance were identified.

6. **Annual Fire Protection (88055)**

a. Scope and Observations

The inspectors reviewed portions of the fire protection systems in several buildings and verified the presence, functional condition, and adequacy of passive and active fire prevention, detection, and suppression systems. The inspectors verified that the certificate holder had established and was maintaining a timely surveillance program directed at passive, active, and administrative features of the fire protection program. Samples of the certificate holder's surveillance program were reviewed for programmatic compliance. The samples included the following: (1) fire prevention inspection Worksheet CP-8848A; (2) fire patrol Log CP-20255; (3) cascade battery room monthly Log CP-20924; (4) barcode monthly wet-pipe sprinkler system Inspection CP-23212; (5) C-331 high pressure fire water system functional tests and valve cycling; (6) preventative maintenance work Order P1104257-01; and (7) numerous computerized records. The inspectors concluded that the documentation and computerized records were in compliance with procedural requirements. The inspectors verified that compensatory measures were in place during maintenance of the high pressure fire water tower. The inspectors concluded that periodic fire water jockey pump functionality and fire water system pressure checks, including documentation logs, were in compliance with procedural requirements.

The inspectors walked down process buildings to verify that fixed and transient combustible loads were managed in accordance with procedures. Process areas equipped with fire sprinklers were noted to have some combustibles such as wood pallets, bags of combustible trash, and puddles of oil and/or absorbent pads. The certificate holder actively managed the quantity of combustibles to ensure the quantities were within guidelines.

The inspectors walked down samples of fire detection systems and process gas leak detectors in the process buildings and noted that detection devices were not obstructed and panel indicators displayed operable status. The inspectors verified that the fire alarm panels had normal power available and backup batteries were in place. The inspectors also verified that various panels were capable of monitoring the operation of the fire water pumps, pull stations, and fire water flow switches.

The inspectors verified that portable fire extinguishers were managed in accordance National Fire Protection Association Code 10 and facility procedures, and access to the fire extinguishers was unobstructed. The inspectors noted that the general condition of fire extinguishers was satisfactory.

The inspectors walked down the process areas and assessed the implementation of administrative fire protection controls such as controls for combustibles and ignition sources related to welding and other spark producing maintenance activities. The inspectors also reviewed samples of the certificate holder's inspection, testing, and maintenance records. The fire protection systems reviewed included risers and related accessories, electric/diesel fire water pumps and water distribution systems, fire water tower, alternate sources of fire water including the cooling tower reservoirs, fire alarm and detection devices, hydrants, and fire barriers such as fire doors and louvers. The inspectors also verified that riser systems were pressurized, isolation valves were open, flow/check valves were in place, pressure gauges were functional, the material condition was satisfactory, and the systems appeared fully functional. The inspectors also reviewed internal audits of fire protection systems to verify that review of the fire protection program had been conducted in accordance with the certificate holder's requirements.

The inspectors reviewed emergency lighting systems, exit signs, and evacuation signs for adequacy and material condition. The inspectors noted that two building entrances were posted with signs that identified to workers that the emergency lighting systems were limited and that workers entering the buildings were required to carry a flashlight. The remaining buildings inspected were equipped with emergency lighting and the certificate holder had implemented a program that ensured emergency lighting systems were adequate for evacuation. The inspector determined that the material condition of backup battery power supplies in the main process buildings was maintained in an adequate condition.

The inspectors reviewed the onsite fire department including fire engines and other rescue and emergency response vehicles. An ambulance, additional auxiliary equipment, and fire brigade personnel training and qualification records were also evaluated.

b. Conclusions

No findings of significance were identified.

7. **Permanent Plant Modifications (88070)**

a. Scope and Observations

The inspectors reviewed the implementation of the following modifications and verified that the design information and safety analyses were in compliance with required design criteria. The inspectors verified that the modifications were installed and system condition was consistent with the design basis and that post-modification testing, as applicable, assured implementation of design and safety system functionality.

- ZB5420, C-400 Spray Booth Storage Tank Floor Pan Refurbishment
- ZB6130, Removal of C-360 Basement Ventilation Interlock
- ZB6330, C-310 Withdrawal Area Sprinkler Head Temperature Rating
- ZB6340, C-310 Withdrawal Area Ceiling Drain Holes

The inspectors verified that design and licensing documents and operating procedures were updated to reflect the modifications, and plant staff was properly trained prior to implementation. The certificate holder also entered issues identified during the modification review process in the corrective action program at the appropriate threshold for resolution.

b. Conclusions

No findings of significance were identified.

8. **Configuration Control (88101)**

a. Scope and Observations

The inspectors reviewed the adequacy and implementation of the facility's configuration-control program. The inspectors determined that proposed changes did not involve un-reviewed safety questions and that changes to approved design-change documents were controlled. The inspectors reviewed plant operations review committee packages, attended plant operation review committee meetings, interviewed the parties responsible for proposed changes, and walked down the implementation of the changes.

b. Conclusions

No findings of significance were identified.

**9. Exit Meetings**

The inspectors summarized the inspection scope and results for Management Organization and Controls inspections on April 19, 2011 with J. Lewis and members of his staff in an exit meeting.

The inspectors summarized the inspection scope and results for the Operator Training inspection on May 12, 2011 with J. Lewis and members of his staff in an exit meeting.

The inspectors summarized the inspection scope and results for the Permanent Plant Modification inspection on May 26, 2011 with J. Lewis and members of his staff in an exit meeting.

The inspectors summarized the inspection scope and results for the Annual Fire Protection inspection and Operational Safety Inspection on June 9, 2011 with J. Lewis and members of his staff in an exit meeting.

The inspectors summarized the inspection scope and results for the Maintenance and Surveillance of Safety Controls Inspection on June 3, 2011 with J. Lewis and members of his staff in an exit meeting.

The inspectors summarized the inspection scope and results for this integrated inspection report on July 15, 2011, with Mr. Steve Penrod and members of his staff. The inspectors asked the certificate holder whether any materials examined during the inspection should be considered proprietary. No proprietary information was identified. No dissenting comments were received from the certificate holder.

## ATTACHMENT

### 1. Partial List of Persons Contacted

<u>Name</u>	<u>Title</u>
Keith Ahern	Production Support Manager
Paul Beane	Nuclear Safety and Quality Manager
Mike Boren	Regulatory Compliance and Nuclear Operations
Mike Buckner	Customer Service and Product Scheduling Manager
Spencer Childers	Quality Control Manager
Sherrill Gunn	Operations Manager
Lee Fink	Regulatory Engineer
Robert Helme	Engineering Manager
Tracey Henson	Nuclear Criticality Safety Manager
O.E. Hickman	Radiation Protection Manager
Jim Lewis	Plant Manager
Charlie Martin	Field Services Manager
Louis Moffatt, II	Cascade Manager
Steve Penrod	Vice President and General Manager
Vernon Shanks	Regulatory Affairs Manager
Stephen Smith	Security Manager
Diane Snow	Environmental, Safety, and Health Manager
Dave Stadler	Lead, Regulatory Engineer
Jeffery Stephens	Regulatory Engineer
Craig Willett	Maintenance Manager

### 2. List of Items Opened, Closed, and Discussed

#### Opened

07007001/2011003-02    LER    Failure Of High Pressure Fire Water Pump #2 To Realign

Following isolation of a High Pressure Fire Water (HPFW) system leak on June 28, 1011, an operator shut down #2 and #3 high pressure fire water (HPFW) pumps to configure them for automatic start. When the 'Auto Start' indicator for the #2 pump did not illuminate, the Plant Shift Superintendent declared #2 HPFW pump inoperable and directed that power be removed from the #2 HPFW pump for troubleshooting and repair by electrical maintenance (EM). When power was removed from the #2 HPFW pump the HPFW system could not perform its intended safety function of providing 4,875 gpm. Two HPFW system pumps were required to be operable by TSR LCO 2.4.4.8. Technicians made repairs and operators restored the pump to standby status and declared it operable. This event was reportable under 10 CFR

76.120(c)(2) as an event in which equipment required to be operable by the technical safety requirements manual was disabled or failed to function as designed.

The Plant Shift Superintendent retracted this event notification at 1332 CDT on July 14, 2011 after an engineering evaluation determined that the HPFW system was capable of fulfilling its intended safety function at all times during the incident.

Event Number; 46996; ATR-11-1604; PGDP Event Report No. PAD-2011-09

### Opened and Closed

07007001/2011003-01 LER Portion Of High Pressure Fire Water System Declared Inoperable.

The Process Building C-333 high pressure fire water (HPFW) sprinkler System C-14 annual inspection results identified eleven sprinkler heads with visible corrosion on them on May 15, 2011. The Plant Shift Superintendent entered technical safety requirements manual limiting condition for operation 2.4.4.5 and declared HPFW System C-14 inoperable and took the required action. This event was reportable under 10 CFR 76.120(c)(2) as an event in which equipment required by the TSR was disabled or failed to function as designed.

The Plant Shift Superintendent retracted this event at 1145 EDT on May 20, 2011 after testing by the laboratory concluded that enough of the sprinkler heads would have performed their safety function and did not affect system operability.

The inspector's reviewed the certificate holder's corrective actions and have no further questions. This Event Notification is closed

Event Number: 46853; ATR-11-1192; PGDP Event Report No. PAD-2011-08

### Closed

07007001/2010003-02 VIO Violation of 10 CFR Part 71.5, "Transportation of Licensed Material."

A waste processor received a shipment from USEC-PGDP on February 20, 2009, and discovered 80 microcuries of americium (Am-241) in the shipment that was not listed on the shipping manifest. This discovery altered the required classification of the radioactive waste shipment which, in turn, altered the shipping, labeling, and placarding requirements.

The inspector's reviewed the certificate holder's corrective actions and have no further questions or concerns. This Event Notification is closed

ATR-09-1056

Discussed

None

**3. List of Inspection Procedures Used**

**Regional Inspectors**

88005	Management Organization and Controls
88010	Operator Training
88020	Operational Safety
88025	Maintenance and Surveillance of Safety Controls
88055	Fire Protection (Annual)
88070	Permanent Plant Modifications

**Resident Inspectors**

88100	Plant Operations
88101	Configuration Control
88102	Surveillance Observations
88103	Maintenance Observations
88105	Management Organization and Controls