



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

January 31, 2014

Gary J. Laughlin, Chief Nuclear Officer  
and Head of Operations  
Louisiana Energy Services  
National Enrichment Facility, L.L.C.  
P.O. Box 1789  
Eunice, NM 88231

SUBJECT: LOUISIANA ENERGY SERVICES, URENCO USA FACILITY – NUCLEAR  
REGULATORY COMMISSION INTEGRATED INSPECTION REPORT NUMBER  
70-3103/2013-005

Dear Mr. Laughlin:

This refers to the inspections conducted from October 1 through December 31, 2013, at the Louisiana Energy Services (LES), URENCO USA facility located in Eunice, New Mexico. The purpose of the inspections was to determine whether activities authorized under the license were conducted safely and in accordance with U.S. Nuclear Regulatory Commission (NRC) requirements. The enclosed report presents the results of these inspections. The inspection results were discussed with members of your staff at exit meetings held October 3, 2013, November 7, 2013, November 21, 2013, December 12, 2013, and summarized January 14, 2014, for this integrated inspection report. No findings of significance were identified.

During the inspections, the NRC staff examined activities conducted under your license as they related to public health and safety and to confirm compliance with NRC rules and regulations, and with the conditions of your license. Areas examined during the inspections are identified in the enclosed report. Within these areas, the inspections consisted of selected examination of procedures and representative records, observations of activities, and interviews with personnel. The inspections covered the following areas; Operational Safety, Facility Support, and Construction.

In accordance with Title 10 of the *Code of Federal Regulations* (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 Agency-Wide Document Access and Management System (ADAMS), accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html>.

Should you have any questions concerning these inspections, please contact us.

Sincerely,

*/RA/*

James A. Hickey, Chief  
Projects Branch 1  
Division of Fuel Facility Inspection

Docket No. 70-3103  
License No. SNM-2010

Enclosure:  
Inspection Report No. 70-3103/2013-005  
w/Attachment: Supplementary Information

cc: (See page 3)

G. Laughlin

2

Should you have any questions concerning these inspections, please contact us.

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cc: (See page 3)

**DISTRIBUTION:**

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PUBLIC

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OFFICE	RII:DFFI	RII:DFFI	RII:DFFI	RII:DFFI	RII:DFFI	RII:DCP
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E-MAIL COPY	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO
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DOCUMENT NAME: G:\DFFI\REPORTS\Draft inspection report folder\LES\2013-005\LES 2013-005

cc:

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U. S. NUCLEAR REGULATORY COMMISSION  
REGION II

Docket No: 70-3103

License: SNM-2010

Report No: 70-3103/2013-005

Licensee: Louisiana Energy Services, L.L.C. (LES)

Facility: URENCO USA, National Enrichment Facility (NEF)

Location: Eunice, NM 88231

Inspection Dates: October 1 through December 31, 2013

Inspectors: T. Goulding, Fuel Facility Inspector In-Training, Division of Fuel Facility Inspection (DFFI) (Paragraph B.1 & B.2)  
K. Kirchbaum, Fuel Facility Inspector In-Training, DFFI (Paragraph B.3)  
J. Lizardi, Construction Inspector, Division of Construction Inspection (DCI) (Paragraph C.1 & C.2)  
S. Mendez, Fuel Facility Inspector, DFFI (Paragraph A.1)  
C. Oelstrom, Construction Inspector, DCI (Paragraph C.3 & C.4)  
L. Pitts, Senior Fuel Facility Inspector, DFFI (Paragraph A.1)  
N. Pitoniak, Fuel Facility Inspector, DFFI (Paragraph B.1 & B.2)  
M. Toth, Fuel Facility Inspector, DFFI (Paragraph B.3)  
T. Vukovsky, Fuel Facility Inspector, DFFI (Paragraph B.1 & B.2)

Approved: J. Hickey, Chief  
Projects Branch 1  
Division of Fuel Facility Inspection

Enclosure

## **EXECUTIVE SUMMARY**

Louisiana Energy Services, L.L.C., (LES), URENCO USA (UUSA)  
NRC Integrated Inspection Report 70-3103/2013-005  
October 1 - December 31, 2013

Inspections were conducted by regional inspectors during normal shifts in the areas of safety operations, facility support, and construction. The inspectors performed a selective examination of licensee activities that were accomplished by direct observation of safety-significant activities and equipment, tours of the facility, interviews and discussions with licensee personnel, and a review of facility records.

### **Safety Operations**

- The inspectors determined that item relied on for safety (IROFS) C23 was properly implemented for Cascades 4.6, 4.7 and 4.8 in order to perform its intended safety function. (Paragraph A.1)

### **Facility Support**

- The Emergency Preparedness program was implemented in accordance with the Emergency Plan and regulatory requirements. (Paragraph B.1)
- The graded biennial emergency drill was implemented in accordance with the Emergency Plan and regulatory requirements. (Paragraph B.2)
- The Plant Modifications program was implemented in accordance with the license application and regulatory requirements. (Paragraph B.3)

### **Construction**

- Structural concrete documentation and activities associated with IROFS 27e for the Separation Building Module (SBM) 1005 uranium hexafluoride (UF<sub>6</sub>) handling and autoclave areas of the SBM 1005 were reviewed. Ongoing Quality Level 1 Graded (QL-1G) construction work and oversight activities were adequate and performed in accordance with the project procedures and specifications. The structural concrete records reviewed demonstrated appropriate implementation of the Quality Assurance (QA) program. (Paragraph C.1.a)
- Licensee activities associated with reinforcing steel and shear stud installation and concrete pre-placement preparations for the roof of the UF<sub>6</sub> handling area of the SBM 1005 building related to safety related construction of IROFS 27e were performed in accordance with the project procedures and specifications. (Paragraph C.1.b)
- Structural steel and support activities and documentation associated with IROFS 27e for the UF<sub>6</sub> handling and autoclave areas of the SBM 1005 were observed and reviewed. The as-built configuration of the structural steel members was consistent with the completed quality records and in compliance with project specifications, procedures, and NRC regulatory requirements. QA records associated with structural steel and support activities were properly maintained in accordance with license and regulatory commitments. (Paragraph C.2.a)

- The as-built configuration of the SBM 1005 UF<sub>6</sub> handling area roof structural steel members was consistent with the completed quality records and in compliance with project specifications, procedures, and NRC regulatory requirements. (Paragraph C.2.b)

**Attachment**

Key Points of Contact

List of Items Closed and Discussed

Inspection Procedures Used

Documents Reviewed (Partial)

## **REPORT DETAILS**

### **Summary of Plant Status**

During the inspection period, the licensee conducted routine plant operation of the operating Cascades. After being granted authorization, the licensee initiated operation of three Cascades during this inspection period. Construction and testing in some areas of Separation Building Modules (SBMs) 1001, 1003, 1005, and other applicable process areas continued in preparation for future operation of additional cascades and equipment.

#### **A. Safety Operations**

1. Plant Operations (IP 88020) Verification that the systems structures and components designed to support operation of Cascades 4.6, 4.7, and 4.8 met license requirements prior to initiation of feed

a. Inspection Scope and Observations

The inspectors reviewed records associated with the item relied on for safety (IROFS) C23 for the verification of Cascades 4.6, 4.7, and 4.8. The inspectors determined that the design features for IROFS C23 for the TC 21 centrifuges were adequate to minimize releases and were being adequately implemented and properly communicated as described in the Integrated Safety Analysis (ISA).

The inspectors confirmed that the passive engineered controls that were reviewed were present and capable of performing their intended safety function. The inspectors reviewed the procedure applicable to the operational validation of IROFS C23 and determined that the procedure was current, reflected the safety controls, and was followed by the operators and technicians.

Through interviews and document reviews, the inspectors verified that the licensee conducted calibration and surveillance activities as required by the ISA Summary and the commercial grade dedication (CGD) process for IROFS C23. The inspectors also reviewed the CGD package for each cascade to verify compliance with applicable procedures and license requirements.

b. Conclusion

No findings of significance were identified.

#### **B. Facility Support**

1. Emergency Preparedness (IP 88050)

a. Inspection Scope and Observations

The inspectors interviewed staff and reviewed records and determined that the changes made to the Emergency Plan or within the facility related to Emergency Preparedness (EP) had been properly coordinated within the EP program. The inspectors reviewed EP procedures with significant revisions since the last emergency preparedness inspection and determined that the changes were in compliance with the Emergency Plan. The inspectors discussed the licensee emergency call list and verified that the list was current.



The inspectors reviewed training records and interviewed licensee staff regarding EP training in the past year. The inspectors determined that the EP requirements were in compliance with the Emergency Plan. The inspectors verified that the licensee provided training and emergency equipment as required by the Emergency Plan. The inspectors also verified that the individuals responsible for utilizing the equipment were qualified. The inspectors verified that the licensee provided training regarding hypothetical emergency situations which were effective and consistent with the frequency and performance objectives required in the Emergency Plan.

The inspectors reviewed the written agreements with the off-site agencies and verified that the organizations required by the Emergency Plan had up-to-date agreements. The inspectors interviewed the Eunice Police Department, Eunice Fire and Rescue, and Lea County Sheriff Department representatives and determined that they maintained an adequate understanding of the written agreements. The inspectors reviewed records and verified that the licensee invited the off-site agencies for training as required by the Emergency Plan and determined that the training given was appropriate. The inspectors reviewed records and verified that the licensee performed communication checks with the off-site organizations at a quarterly frequency as required by the Emergency Plan.

The inspectors observed the storage of emergency equipment in the Emergency Operations Center (EOC) and the Alternate EOC and verified that the inventory levels were maintained as required by the Emergency Plan. The inspectors toured the EOC and the backup EOC and verified that the areas were readily accessible and maintained the appropriate amount of communication equipment. The inspectors reviewed the accountability procedure and verified that accountability meeting points were accessible.

The inspectors verified that any problems or deficiencies associated with the Emergency Plan were corrected. The inspectors reviewed the self-assessments generated since the last inspection and verified that a system was in place for adequately tracking and resolving self-assessment findings.

b. Conclusion

No violations of NRC requirements were identified.

2. Evaluation of Exercises and Drills (IP 88051)

a. Inspection Scope and Observations

The inspectors reviewed the emergency drill scenario and discussed the exercise objectives with licensee personnel before the exercise. The inspectors walked down the plant to assess the effectiveness of the visual aids used in the drill and verified that the licensee had not pre-staged equipment in anticipation of the exercise.

The inspectors observed and evaluated the licensee's graded biennial exercise conducted on October 2, 2013. The scenario included a simulated dropped and breached uranium hexafluoride (UF<sub>6</sub>) cylinder in combination with a diesel fire from a cylinder transport vehicle. Personnel injuries were simulated, requiring offsite medical, fire, and hazardous material response assistance.

At the initiation of the emergency drill, the inspectors verified that the licensee assessed the accident scenario, analyzed the plant condition, and properly classified the event. The event was classified as a Site Area emergency in accordance with the Emergency Plan. The inspectors observed the activation of the EOC and noted that all required positions were fully staffed in accordance with the Emergency Plan. The inspectors verified that the protective action recommendations implemented by the EOC were appropriate for the accident scenario and in accordance with the Emergency Plan.

The inspectors verified that the initial offsite notifications were within the time period specified in the Emergency Plan and were adequate in content. The inspectors verified that the onsite communications to the occupational workers were consistent with the protective action recommendations implemented by the EOC. The occupational workers participated in the shelter-in-place protective action and personnel accountability in accordance with approved procedures. The inspectors reviewed the press releases provided by the Joint Information Center communicators. The inspectors determined that the press releases were in accordance with the Emergency Plan and were approved by the Emergency Director prior to issuance.

The inspectors determined that the Emergency Director maintained adequate command and control of the EOC. The inspectors reviewed the offsite dose assessment conducted by the dose assessor using the RASCAL software. The inspectors verified that the Emergency Director adequately utilized the dose assessment, radiation survey results, and environmental monitoring results during the assessment of the accident scenario.

The inspectors observed members of the licensee's emergency response team assemble at the designated assembly area and the arrival of the off-site emergency responders including fire, EMT, police, and HAZMAT. The inspectors observed the emergency response team's assessment of the affected area to include injured personnel, hazard analysis and response to additional emerging situations. The Incident Commander maintained adequate command and control of the emergency response team and coordinated action with the off-site emergency responders. The inspectors verified that the emergency response team activities were appropriate for the exercise scenario and were adequate in meeting the drill objectives.

The inspectors observed the staff critiques of the emergency exercise. The inspectors determined that the critiques were effective at identifying lessons learned and areas for improvement. The inspectors verified that the licensee initiated documentation of items discussed after the emergency exercise in the corrective action program.

b. Conclusion

No violations of NRC requirements were identified.

3. Permanent Plant Modifications (IP 88070)

a. Inspection Scope and Observations

The inspectors selected modifications to review within the SBM and Cylinder Receipt and Dispatch Building (CRDB) areas. The inspectors focused on changes applicable to the ISA summary, IROFS, the Safety Analysis Report (SAR) and site procedures. The selected

modifications included design change notices, configuration changes, facility changes and minor modifications. The inspectors also reviewed the licensee's temporary modification process for procedural compliance and adherence to the license application.

The inspectors reviewed selected permanent plant modifications since the last inspection conducted in September 2012. The inspectors verified completed modifications were adequately reviewed prior to implementation and when returning the affected equipment to service, including post maintenance testing requirements. The inspectors verified that the licensee addressed baseline design criteria stipulated in 10 CFR 70.64 in the designs of permanent plant modifications.

The inspectors interviewed licensee personnel to verify that an adequate and effective configuration management system had been established to evaluate, implement, and track permanent plant modifications to the site which could affect safety. The inspectors reviewed aspects of the program related to the transitional phase of construction-to-operational status and verified the licensee was appropriately maintaining ownership, performing functional testing, and applying management measures for all components and systems.

The inspectors verified that the licensee addressed the impacts of modifications to the ISA, ISA Summary, and other safety program information developed in accordance with 10 CFR 70.62. The review included modification and the removal of IROFS, impacts on accident analyses, and procedural changes. The inspectors selected piping and instrumentation diagrams (P&IDs) from several modifications and performed field walk-downs to verify the field configuration matched the current P&ID revision.

The inspectors reviewed the licensee's corrective action program to verify that issues relating to the preparation and installation of permanent plant modifications were entered at an appropriate threshold and assigned corrective actions were effective. The inspectors reviewed the most recent internal audits of the plant engineering program and verified they were implemented in accordance with license requirements.

b. Conclusion

No findings of significance were identified.

**C. Construction**

1. Structural Concrete Activities (IP 88132)

a. UF<sub>6</sub> Handling and Autoclave Areas of the SBM 1005

(1) Inspection Scope and Observations

The inspectors conducted an on-site inspection to determine if structural concrete activities were performed in accordance with NRC regulations and the requirements of the LES' license and Quality Assurance (QA) program. The inspection focused on the structural concrete activities associated with safety related construction of IROFS 27e (constructed to withstand design basis natural phenomena hazards and external hazards) for the SBM 1005. The inspectors reviewed documentation and observed welding of precast panel. The inspectors reviewed work plans to verify if the work steps and hold points were adequately

followed and performed. The inspectors held discussions with Quality Control (QC) personnel and observed in-process QC inspections to verify proper documentation of construction activities.

The inspectors observed as-built condition of the top of two concrete columns to verify that the location, dimensions and shape of the visible reinforcing bars extruding from the hardened concrete were in accordance with the design and shop drawings. Formwork removal and concrete curing processes were observed by the inspectors. The inspectors reviewed multiple work plans associated with the concrete pour of precast panels and concrete columns, and held discussions with licensee staff to verify adequate adherence to concrete pre-placement, placement and post-placement requirements. In-process installation of reinforcing bars was observed, by the inspectors, for a rectangular section of the Quality Level 1 Graded (QL-1G) slab on ground. The inspectors reviewed design and shop drawings associated with this section, and verified rebar dimension, location, and rebar splices length. Inspectors reviewed licensee's drawings and work plans to determine if adequate controls and documentation of QL-1G structural concrete construction activities associated with IROFS 27e for SBM 1005 were in place. The inspectors reviewed QA records to determine whether activities were accomplished in accordance with the design specifications, drawings, procedures, and regulatory requirements.

(2) Conclusion

No findings of significance were identified.

b. UF<sub>6</sub> Handling Area Roof Construction Activities

(1) Inspection Scope and Observations

The inspectors performed a field inspection of the QL-1G structural concrete activities for the roof of the UF<sub>6</sub> handling area of the SBM 1005 building. The inspectors observed the placement of reinforcing steel for the roof deck and shear studs for the roof area, to verify that these items were constructed in accordance with design documents and applicable codes and standards. The inspectors also observed the formwork for the roof to verify that the formwork was adequate for use and clean of debris that could be deleterious to the concrete.

The inspectors reviewed work plans and calculations associated with the roof construction, and held discussions with licensee staff to verify adequate adherence to project requirements. The inspectors reviewed design and shop drawings associated with the roof and verified rebar and shear stud dimension, location, and rebar splice length.

(2) Conclusion

No findings of significance were identified.

2. Structural Steel and Supports Activities (IP 88133)
- a. UF<sub>6</sub> Handling and Autoclave Areas of the SBM 1005

- (1) Inspection Scope and Observations

The inspectors evaluated structural steel activities associated with IROFS 27e for the UF<sub>6</sub> Handling and Autoclave Areas of the SBM 1005. During the inspection, QA documentation and drawings were reviewed by the inspectors to verify whether activities performed onsite were in accordance with license and regulatory commitments. Inspectors held discussions with civil engineering staff regarding the structural steel and bolt installation activities, procedures, and specifications.

The inspectors walked down the UF<sub>6</sub> handling area of the SBM 1005 to verify that the as-built condition of several structural members met design drawings and requirements. The inspectors verified the installation of several structural members including their stiffener and bolting attributes. The as-installed condition (up to elevation 3461') of Beam Braces and Columns were observed by the inspectors. The inspectors independently verified dimensions and part numbers in order to determine if adequate parts were installed in accordance with design requirements, and if these parts were traceable to the work plans and procurement documentation. The work plans were also reviewed to verify adequate documentation and signature of QC hold points. During this walk-down, the inspectors observed ongoing bolting activities and interviewed the licensee staff involved with this activity to verify if qualification and torque requirements were met. The inspectors reviewed work plans to verify adequate adherence to the work steps and part traceability requirements.

Specifically, the inspectors verified that steel members were properly installed, oriented, and free of visible defects. Inspectors verified that connections contained the appropriate size, grade, and quantity of bolts or welds. Inspectors reviewed bolting maps to ensure that bolts had received the proper torque, and inspection. Inspectors observed on-site storage of bolts and structural steel members to verify that these items were adequately controlled and segregated in accordance with their respective storage level classifications. Inspectors interviewed field personnel to determine if material handling and traceability was appropriately verified by QC inspectors. The inspectors observed as-built dimensions and location of beam seat and seat stiffener, installed on the concrete columns, to verify that these dimensions matched the design drawings and requirements. Welding of QL-3 decking material for the intermediate concrete slab was observed to verify that the performance of this activity did not undo QL-1G requirements of the adjacent structural steel members.

- (2) Conclusion

No findings of significance were identified.

- b. UF<sub>6</sub> Handling Area Roof Construction Activities

- (1) Inspection Scope and Observations

The inspectors performed a field inspection of the QL-1G structural steel activities for the roof of the UF<sub>6</sub> handling area of the SBM 1005 building. The purpose of the inspection was to determine by direct observation and independent evaluation whether as-built installation

and inspection performance were accomplished in accordance with applicable codes and standards, design specifications, drawings, procedures, and regulatory requirements.

During the inspection, QA documentation and drawings were reviewed by the inspectors to verify whether activities performed onsite were in accordance with license and regulatory commitments. Inspectors held discussions with civil engineering staff regarding the structural steel and bolt installation activities, procedures, and specifications.

The inspectors walked down UF<sub>6</sub> handling area of the SBM 1005 to verify that the as-built condition of several structural members met design drawings and requirements. The inspectors verified the installation of several structural members including beam, truss and column connections. The work plans were also reviewed to verify adequate documentation and signature of QC hold points. The inspectors verified that steel members were properly installed, oriented, and free of visible defects. In addition, inspectors verified that connections contained the appropriate size, grade, and quantity of bolts or welds.

(2) Conclusion

No findings of significance were identified.

D. Exit Meeting

The inspection scope and results were presented to senior licensee representatives and staff on October 3, 2013, November 7, 2013, November 21, 2013, December 12, 2013, and summarize on January 14, 2014. Proprietary information was discussed but not included in the report.

## **SUPPLEMENTARY INFORMATION**

### **1. KEY POINTS OF CONTACT**

<u>Name</u>	<u>Title</u>
R. Cogar	Information Services Manager
S. Cowne	Head of Compliance
J. Dahlin	Health Safety and Environmental Manager
A. Gonzalez	Systems Engineering
B. Graham	Licensing
D. Greenwood	Operations Manager
T. Harney	Design Engineering
T. Hendrix	Construction Oversight Engineer
T. Knowles	Licensing and Performance Assessment Manager
J. Laughlin	Chief Nuclear Officer
P. Lorskulsint	Operations Support Manager
R. Olivas	Construction Oversight Engineer
J. Rickman	Licensing
J. Sanford	Emergency Preparedness Manager
C. Slama	Licensing Engineer
S. Thyne	Training Manager
X. Thomas	Systems Engineering/Mod Coordinator
W. Warren	Baker Concrete Quality Assurance Supervisor
R. Williams	Head of Technical Services

### **2. LIST OF ITEMS OPENED, CLOSED, AND DISCUSSED**

None

### **3. INSPECTION PROCEDURES USED**

IP 88020	Operational Safety
IP 88050	Emergency Preparedness
IP 88051	Evaluation of Exercise and Drill
IP 88070	Permanent Plant Modifications
IP 88132	Structural Concrete Activities
IP 88133	Structural Steel and Supports Activities

### **4. DOCUMENTS REVIEWED (PARTIAL LIST)**

#### Records:

Urenco USA Emergency Preparedness Drill Report 1<sup>st</sup> Quarter 2013, dated March 27, 2013  
Urenco USA Emergency Preparedness Drill Report 3<sup>rd</sup> Quarter 2012, dated September 12, 2012  
Urenco USA Emergency Preparedness Drill Report 4<sup>th</sup> Quarter 2012, dated December 12, 2012

Attachment

2013-0015, Urenco USA Emergency Preparedness Program Self Assessment, dated May 2, 2013  
 CC-EG-2011-0112, Material Handling in CRDB  
 FC-2013-013, Modification to Pump Rebuild Shop for 480V Receptacles  
 FC-2012-041, Install Valves on UN-NEF-1001-672-9U1 HVAC in PSC  
 MM-20026878, Tie-In Interface SMB-1003 CCWS Control to CUB  
 CC-LO-2012-0002, Contingency Product Storage without Overpacks  
 CC-EG-2012-0060, Removal of IROFS 27a/b from GEVS Room in CRDB  
 ISA Record 32-2400503-02-LES, Att. C, ISA Consequence Assessments for Airborne Releases; Material at Risk/UF6 Source Terms  
 ISA Record 32-2400503-06-LES, Att. J, ISA Consequence Assessments for Airborne Releases; Miscellaneous Accident Sequences  
 ISA Team Meeting Minutes, ISA-MEM-047  
 2013-A-05-015, Quality Assurance Internal Audit Report, Revision (Rev.) 0  
 2013-A-07-023, Quality Assurance Internal Audit Report, Rev. 0  
 2009000158/3000116, Rev 0, Engineering Troubleshoot to Correct the Temperature Anomalies in the CAB Building, Work Control Form  
 1000518/3001336, Rev 0, Rework Existing Fabric Roll-up Door to Accommodate the Installation of an Additional Steel Roll Up Door, Work Control Form  
 1000077334-SBM3: DCN-2012-004 on Cascade 3.4, Maintenance Work Order  
 1000078646-SBM3: DCN-2012-004 on Cascade 3.6-3.12, Maintenance Work Order  
 1000077094-SBM3: Core Drill Cascade 3.1, 3.2, 3.4-3.12, Maintenance Work Order  
 DCN-201 3-004, SBM-1003 Floor Penetrations for Cascade Valve Controllers – Assay 1004

#### Procedures:

Emergency Plan, Rev. 20, dated September 4, 2013  
 EP-3-0200-01, Classification of Emergency Events, Rev. 4, dated August 19, 2013  
 EP-3-1000-02, 10 CFR 70.32(i)/10 CFR 40.35(f) Change Evaluation, Rev. 3, dated January 17, 2013  
 AD-3-1000-10, Change Management Process, Rev. 7  
 EG-3-2100-01, Configuration Change, Rev. 19  
 SU-3-1000-05, Turnover and Acceptance, Rev. 1  
 EG-3-4100-11, Plant Engineering Drawing Control, Rev. 1  
 RM-3-3000-01, Control of Documents, Rev. 11  
 EG-3-4100-02, Plant Modifications, Rev. 14  
 EG-3-4100-04, Temporary Modifications, Rev. 4  
 EG-3-3200-01, Nuclear Criticality Safety Evaluations, Rev. 6  
 EG-3-2100-01-F-1, Configuration Change Form  
 EG-3-3100-01, Integrated Safety Analysis Impact Evaluation, Rev. 7  
 EG-3-3100-01-F-1, ISA Impact Evaluation Form  
 LS-3-1000-04, 10CFR 70.72(c) Evaluations for Proposed Changes, Rev. 13  
 LS-3-1000-04-F-1, 10 CFR 70.72(c) Screen and Evaluation  
 EG-3-3100-06-F-7, Hazard and Risk Determination Analysis ISA Record Cover Form  
 EG-3-3100-06-F-5, Integration Checklist

#### Condition Reports Written as a Result of the Inspection:

2013-2005, Critiques need to be more self-critical, identified by NRC during IP 88050 Inspection  
 2013-2006, Evaluation of drill objectives should be more thorough in that sub-objectives should be discussed to ensure a comprehensive understanding that the drill objective was satisfactorily met, identified by NRC during IP 88050 Inspection



2013-2007, The Emergency Preparedness Lessons Learned database is not being effectively employed. Dates and actions items are not being kept current, identified by NRC during IP 88050 Inspection

ER 2013-2017, Information Services and Emergency Planning will make a change to the process for submitting and retrieving Emergency Plan documents sent to outside locations, identified by NRC during IP 88050 Inspection

ER 2013-2042, UUSA does not have a Fire Pre-Plan for the UBC Pad, identified by NRC during IP 88050 Inspection

ER-2013-2261, Several completed modification packages were not quality record validated, identified by NRC during IP 88070 Inspection

ER-2013-2263, Temporary Modification Procedure; procedural deficiencies, identified by NRC during IP 88070 Inspection

ER-2013-2287, Required form not utilized during modification process, identified by NRC during IP 88070 Inspection

ER-2013-2290, HVAC modification in PSC not installed per drawing (non-safety system) , identified by NRC during IP 88070 Inspection

ER-2013-2291, Temporary modification procedural deficiencies, identified by NRC during IP 88070 Inspection

ER-2013-2298, Pump rebuild room drawing contained minor errors, identified by NRC during IP 88070 Inspection

ER-2013-2299, TSB Fire sprinkler piping support, identified by NRC during IP 88070 Inspection.

ER-2013-2304, EG-3-4100-03 Temporary Modification Timeline Tracking, identified by NRC during IP 88070 Inspection

ER-2013-2305, FC-2012-041 Field Walk Down, identified by NRC during IP 88070 Inspection

ER-2013-2306, Document Control Inefficiencies, identified by NRC during IP 88070 Inspection

Other Documents:

Memorandum of Understanding (MOU) between Carlsbad Medical Center and UUSA, dated August 30, 2011

MOU between the City of Eunice and UUSA, dated August 19, 2011

MOU between Lea County and UUSA, dated September 8, 2011

MOU between the Lea County Communications Authority and UUSA, dated September 12, 2013

Drawings:

LES-1005-C-CON-000-01-0, "Concrete Separation Building Module-1005 General Notes," Rev. 0

LES-1005-C-CON-006-07-0, "Concrete Separation Building Module-1005 UF6 Area Embed Plates Sections and Details," Rev. 0

LES-1005-C-STL-008-09-0, "Steel Separation Building Module-1005 Sections and Details for Beam Supports," Rev. 0

LES-1005-C-CON-003-01-0, "Concrete Separation Building Module-1005 UF6 Area Slab On Grade Reinforcing Plan," Rev. 0

Parson, 444758-1005-C-CON-006-09, "Concrete SBM-1005 UF6 Area-Poured-In-Place Concrete Column Sections," Rev. 2

Parson, 444758-1005-C-CON-006-10, "Concrete SBM-1005 UF6 Area-Poured-In-Place Concrete Column Sections," Rev. 2

Parson, 444758-1005-C-STL-003-02, "Steel SBM-1005 UF6 Area Framing Elevations at Grid Lines 2, 3 & 4," Rev. 0

Parson, 444758-1005-C-STL-001-01, "Steel SBM-1005 UF6 Area Second Floor Framing Plan," Rev. 3

Parson, 444758-1005-C-CON-003-03, "Concrete SBM-1005 UF6 Area Slab On Grade Sections and Details," Rev. 2

Hirschfeld Industries, Job No. 12056, Sheet No. D1006, "Brace," Rev. 1

Hirschfeld Industries, Job No. 12056, Sheet No. B1138, "Beam," Rev. 0

Hirschfeld Industries, Job No. 12056, Sheet No. M1004, "Gusset," Rev. 0

Hirschfeld Industries, Job No. 12056, Sheet No. M1142, "Miscellaneous," Rev. 1

Hirschfeld Industries, Job No. 12056, Sheet No. E1001, "UF6 Area Second Floor Framing Plant (PRI# 7)," Rev. 1

Gerdau, Job No. 4312-4749, Dwg No. R6.8

Gerdau, Job No. 4312-4749, Dwg No. R6.6

Gerdau, Job No. 4312-4749, Dwg No. R6.3

Gerdau, Job No. 4312-4749, Dwg No. R6.5

Gerdau, Job No. 4312-4749, Dwg No. R6.7

Gerdau, Job No. 4312-4749, Dwg No. R4.6

Gerdau, Job No. 4312-4749, Dwg No. R4.5

#### Work Packages:

1005-CIVIL-824-001, "Build and Erect Tilt Up Panels for SBM 1005 UF<sub>6</sub>," Rev. 3

1005-CIVIL-820-002, "Build and Erect Tilt Up Panels for SBM 1005 UF<sub>6</sub>," Rev. 0

#### Event Report (ER):

ER-2013-2186, Effective Depth of Reinforcing in Column at Gridlines K and 2 in the SBM 1005", Rev. 0 (Pending Open Status)

#### Engineering Change Request (ECR):

ECR-8259, "Eliminate Stiffeners and Cap Plates From W14 Columns at the Supports for the UF<sub>6</sub> Roof Trusses," Rev. 0

#### Calculations:

444758-1005-C-CAL-013, "Design of Concrete Poured-in-Place Columns," Rev. 1