



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

April 23, 2013

Mr. Kelley D. Trice  
President and Chief Operating Officer  
Shaw AREVA MOX Services  
Savannah River Site  
P.O. Box 7097  
Aiken, SC 29804-7097

**SUBJECT: MEETING SUMMARY – CATEGORY 1 MEETING, SHAW AREVA MOX SERVICES, MIXED OXIDE FUEL FABRICATION FACILITY (MFFF) - DOCKET NUMBER 70-3098**

Dear Mr. Trice:

This letter refers to the Applicant Performance Review (APR) public meeting conducted at the Hydrogen Research Center in New Ellenton, South Carolina on April 17, 2013. The purpose of this meeting was to discuss the results of Shaw AREVA MOX Services' performance in the areas of management measures, facility construction, and licensing activities covering the period from October 1, 2011, and ending December 31, 2012, and the status of the MFFF construction project. The meeting also provided you the opportunity to provide feedback to the NRC regarding your self assessment, program enhancements, and perception of the NRC performance review. The meeting was beneficial and provided the NRC with information regarding the various initiatives taken by MOX Services, both onsite at the Mixed Oxide Fuel Fabrication Facility construction project, and offsite. Additionally, the meeting afforded members of the public the chance to ask questions regarding your facility and/or the NRC applicant performance review process.

The names of attendees at the meeting and a copy of the presentations used by MOX Services and the NRC are enclosed.

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter and its enclosures will be available electronically for public inspection in the NRC Public Document Room or from the Publicly Available Records (PARS) component of NRC's Agency wide Document Access and Management System (ADAMS). ADAMS is accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html> .

K. Trice

2

Should you have any questions concerning this meeting, please contact me at 404-997-4476.

Sincerely,

***/RA/***

Deborah A. Seymour, Chief  
Construction Projects Branch 1  
Division of Construction Projects

Docket No. 70-3098  
Construction Authorization No. CAMOX-001

Enclosures:   1. List of Attendees  
                  2. NRC Presentation slides  
                  3. MOX Services Presentation slides

cc w/encl: (See next page)

Should you have any questions concerning this meeting, please contact me at 404-997-4476.

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cc w/encls: (See next page)

PUBLICLY AVAILABLE     NON-PUBLICLY AVAILABLE     SENSITIVE     NON-SENSITIVE

ADAMS:  Yes    ACCESSION NUMBER: ML13113A264     SUNSI REVIEW COMPLETE

OFFICE	RII:DCP						
SIGNATURE	WBG						
NAME	W. Gloersen						
DATE	04/23/2013						
E-MAIL COPY?	YES						

cc w/encls:

Mr. Clay Ramsey,  
Federal Project Director  
NA-262.1  
P.O. Box A  
Aiken, SC 29802

Mr. Sam Glenn, Deputy  
Federal Project Director  
NA-262.1  
P.O. Box A  
Aiken, SC 29802

Mr. Joseph Olencz, NNSA/HQ  
1000 Independence Ave., SW  
Washington, DC 20585

Dr. Peter Winokur,, Chairman  
Defense Nuclear Facilities Safety Board  
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Division of Radioactive Waste Management  
Bureau of Health and Environmental Control  
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Washington, DC 20004

Diane Curran  
Harmon, Curran, Spielberg & Eisenberg,  
LLP  
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Atlanta, GA 30306

L. Zeller  
Blue Ridge Environmental Defense League  
P.O. Box 88  
Glendale Springs, NC 28629

Letter to Kelly Trice from Deborah Seymour dated April 23, 2013

SUBJECT: MEETING SUMMARY – CATEGORY 1 MEETING, SHAW AREVA MOX SERVICES, MIXED OXIDE FUEL FABRICATION FACILITY (MFFF) - DOCKET NUMBER 70-3098

Distribution w/encls:

J. Kinneman, NMSS

M. Bailey, NMSS

P. Silva, NMSS

D. Tiktinsky, NMSS

K. Morrissey, NMSS

J. Munday, RII

M. Miller, RII

J. Yerokun, RII

D. Seymour, RII

W. Gloersen, RII

M. Shannon, RII

B. Adkins, RII

K. Steddenbenz, RII

Region II Regional Coordinator

R. Hannah, Public Affairs Officer, RII

Region II Administrator's Secretary

Region II Division Directors and Deputies

PUBLIC

## LIST OF ATTENDEES

### **U. S. Nuclear Regulatory Commission**

#### **Region II**

D. Seymour, Branch Chief, Construction Projects Branch 1 (CPB1), Division of Construction Projects (DCP)  
W. Gloersen, Senior Project Inspector, CPB1, DCP  
M. Shannon, Senior Resident Inspector, CPB1, DCP  
B. Adkins, Resident Inspector, CPB1, DCP  
R. Hannah, Public Affairs Officer

#### **Office Of Nuclear Material Safety and Safeguards (NMSS)**

D. Tiktinsky, Senior Project Manager, Conversion, Deconversion and Mixed Oxide Branch (CDMOB)

#### **Shaw AREVA MOX Services**

S. Marr, Executive Vice President Deputy Project Manager  
R. Whitley, Vice President, Project Assurance  
M. Gober, Vice President, Engineering  
D. Gwyn, Manager, Licensing and Nuclear Safety  
J. Keklak, Regulatory Compliance Manager  
D. Yates, Licensing Engineer

#### **Members of the Public**

E. Brandes  
K. Brinkley  
G. Carroll  
F. Close  
K. Fletcher  
W. Keisler  
M. Kinnard  
T. Montgomery  
W. Sears  
C. Wolfe

# *United States Nuclear Regulatory Commission*

*Inspection Program Overview and  
Applicant Performance Review (APR)*

*for*

*Shaw AREVA MOX Services  
Mixed Oxide Fuel Fabrication Facility (MFFF)  
April 17, 2013*



# Agenda



2:00 p.m.	Welcome and Introductions	NRC
2:10 p.m.	Inspection Program Overview and Results of Applicant Performance Review	NRC
2:30 p.m.	Response to Applicant Performance Review and Status of the MOX Fuel Fabrication Facility Construction Project	MOX Services
3:00 p.m.	Closing Remarks	NRC
3:10 p.m.	Public Comments and Questions	NRC
	Meeting Adjourned	NRC

# Meeting Participants



## *Nuclear Regulatory Commission*

### *Region II (RII)*

Deborah Seymour, Branch Chief, Construction Projects Branch 1  
William Gloersen, Senior MOX Project Inspector  
Melvin Shannon, Senior Resident Inspector  
Brannen Adkins, Resident Inspector  
Roger Hannah, Senior Public Affairs Officer

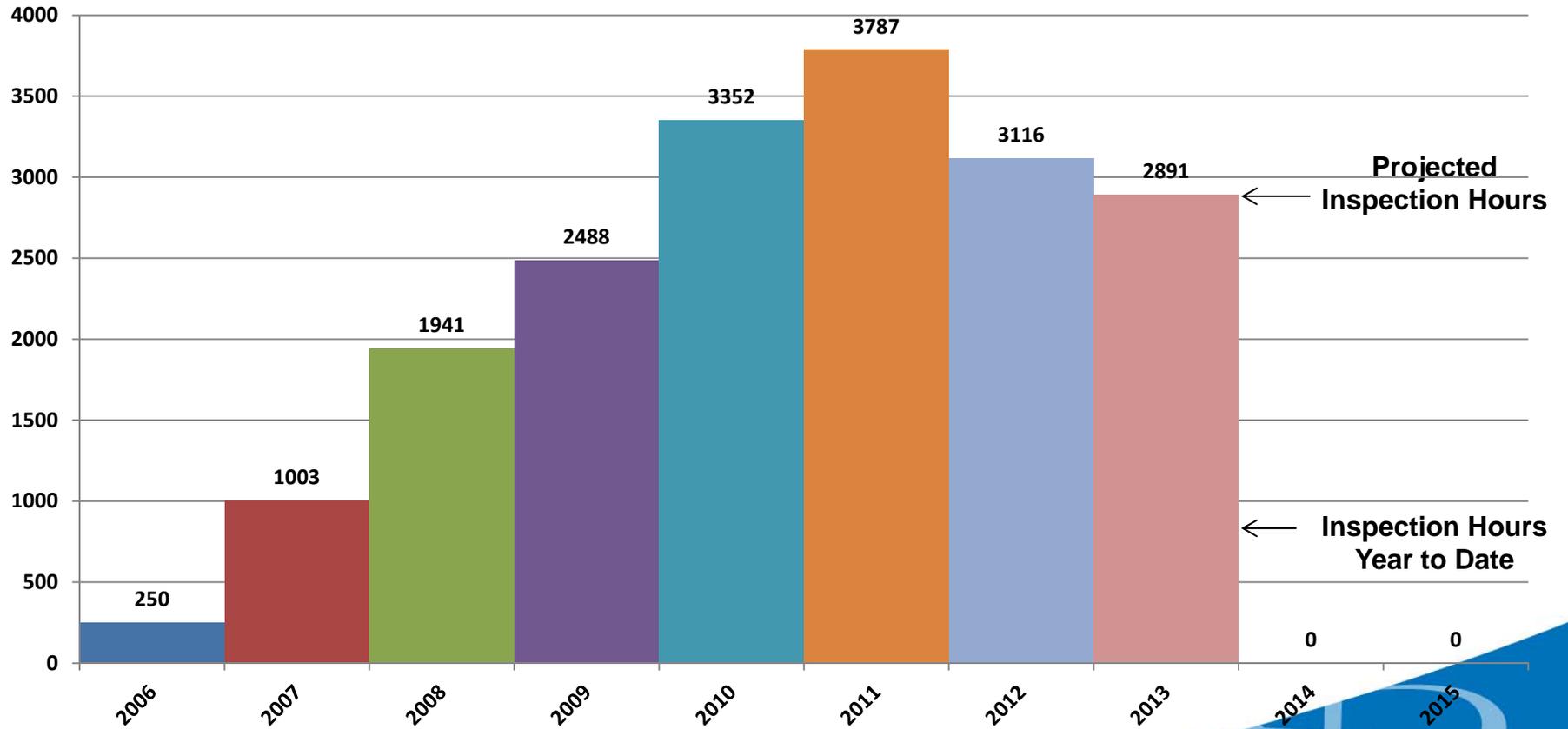
## *Office of Nuclear Materials Safety and Safeguards (NMSS)*

David Tiktinsky, Senior Project Manager, Conversion, Deconversion and Mixed Oxide Branch (CDMOB)

# The NRC Inspection Program



# *NRC Inspection Resources Expended at the MFFF*



# Applicant Performance Review Program

- Integrated assessment
- Performance based
- Performed annually
- October 1, 2011 – December 31, 2012

# Applicant Performance Review Results

- ❑ Overall, MFFF construction activities were conducted in an acceptable manner
- ❑ The NRC will perform routine inspections at the MFFF commensurate with the MFFF construction schedule

# Applicant Performance Review Results (continued)



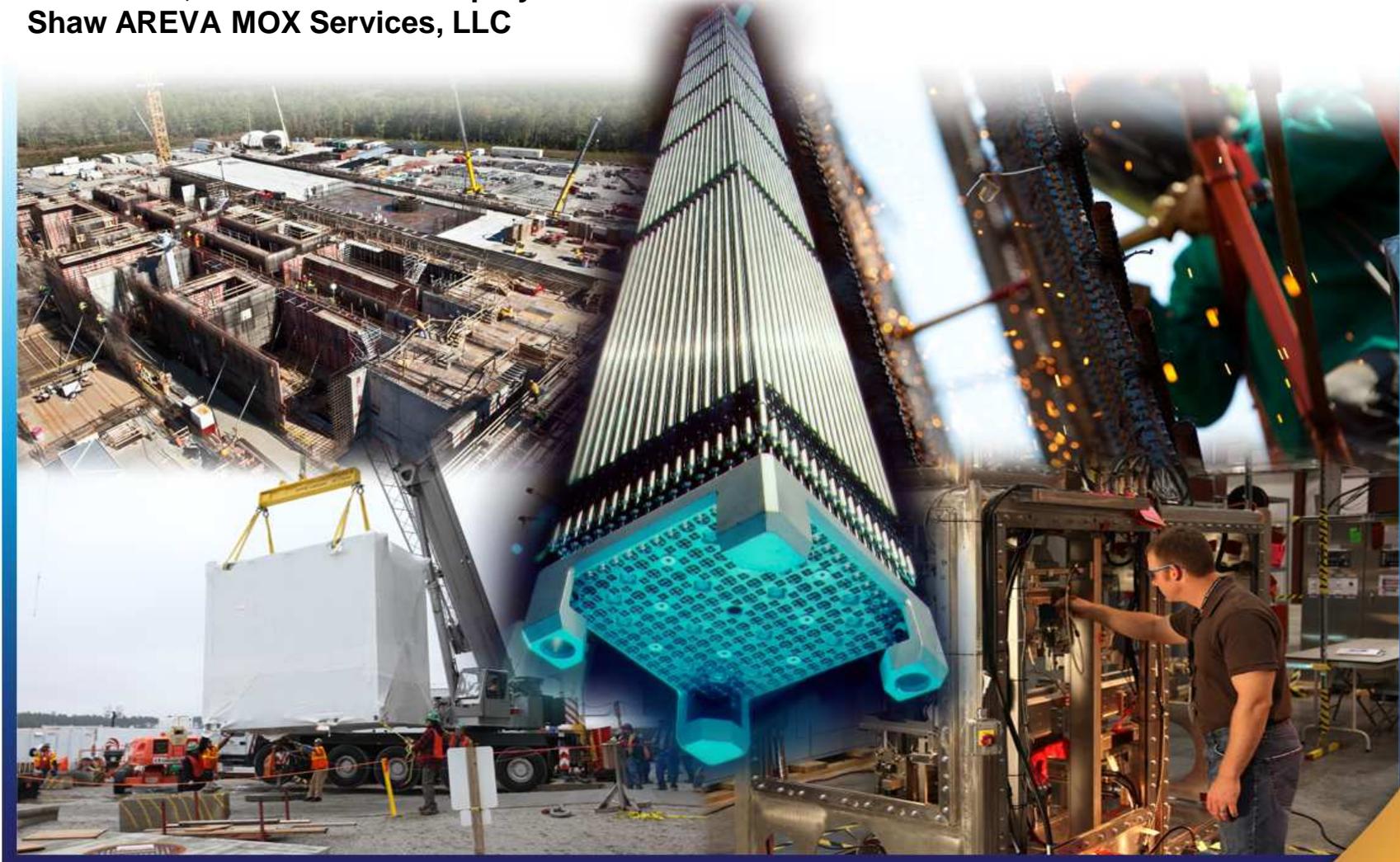
- ❑ Inspection results and information on licensing activities and the construction inspection program can be easily found on the NRC public website
  - <http://www.nrc.gov/materials/fuel-cycle-fac/mox/licensing.html#4>
  - Information also available in in Agencywide Documents Access and Management System (ADAMS) <http://www.nrc.gov/reading-rm/adams.html>

# *MOX Services*

*Any Questions?*

# NRC Applicant Performance Review

Steve Marr, Executive VP & Deputy PM  
Shaw AREVA MOX Services, LLC



*Protecting Future Generations. Powering the Future.*

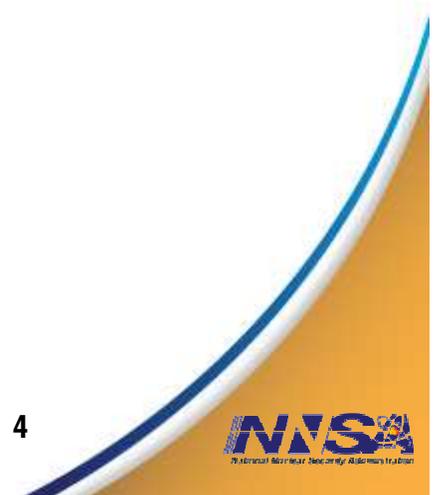
# Agenda

- **MOX Services APR response**
- **Project Status**
  - Safety & Environmental Performance
  - Organization changes
  - Project accomplishments

# **MOX Services Applicant Performance Review Response**



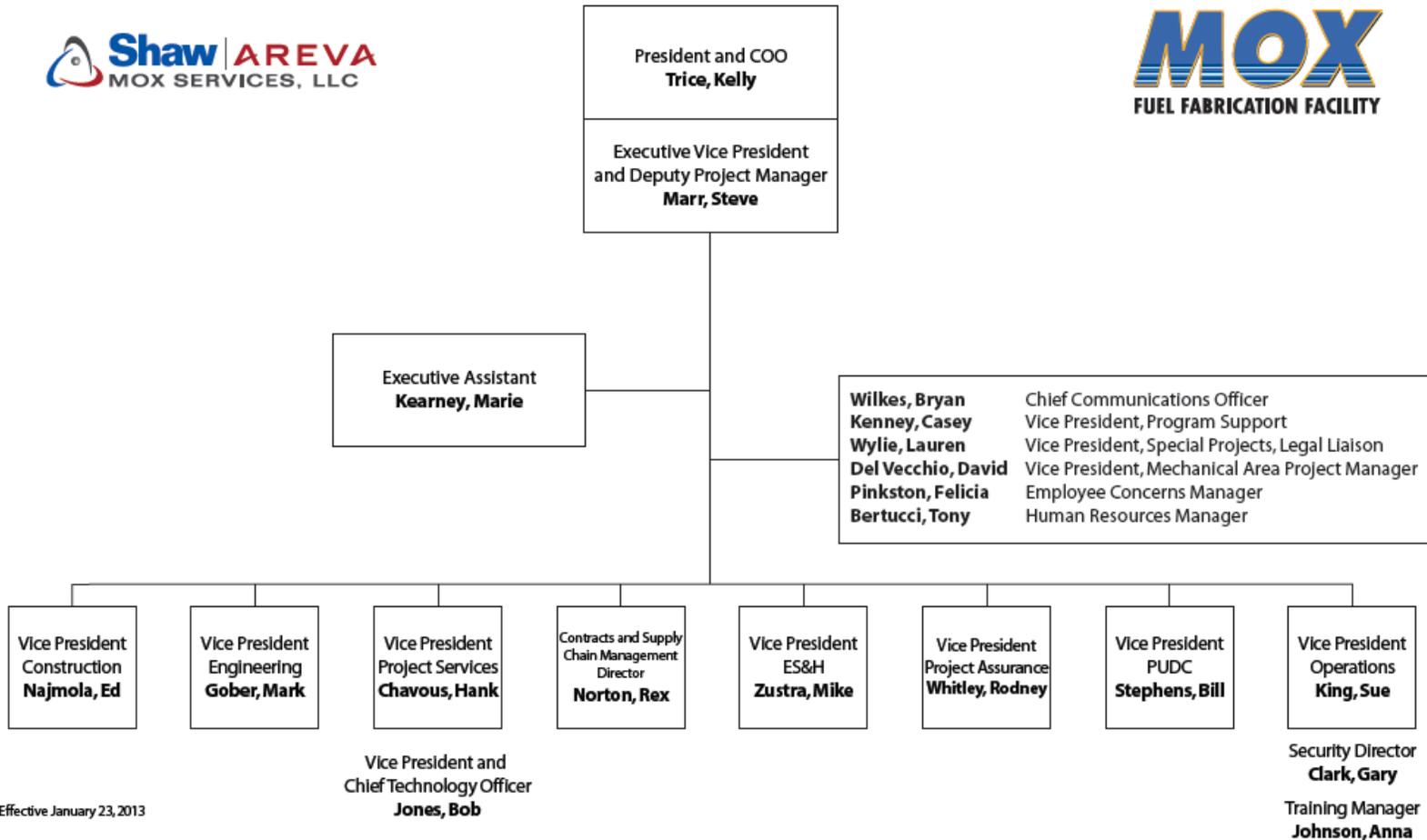
# Project Status



# Safety & Environmental Performance

- **Safety performance remains excellent**
  - 23.8 million hours worked since start of construction
  - Exceeded 14.6 million work hours without a lost time injury
  - Exceeded 185,000 work hours without an OSHA recordable injury
  - Voluntary Protection Program (VPP)
    - Received OSHA VPP Star status on 25 Feb 13
- **Environmental performance**
  - Over 50 active permits and no violations since construction start
  - 2<sup>nd</sup> LEED Gold Certification
    - Technical Support Building Feb 2013 (*Administration Building – 2010*)

# Organization Changes



Effective January 23, 2013

# Project Accomplishments

- **Completed roof and exterior structure of main process facility**
- **Completed construction of Technical Support Building**
- **Installed five modules in Active Gallery**
- **Completed installation of fuel assembly crane**
- **Commenced installation of pellet storage unit**

# Project Accomplishments

- **Set the 13.8kv primary power transformers**
- **Received first safety programmable logic controllers**
- **Received 94 of 334 gloveboxes**
- **Completed 9 of 28 In-Advance Tests on major system components**

# Accomplishments

- **Support to Small Business (through FY12)**
  - >9,600 small business contracts awarded to date
  - Total value: >\$860 Million
- **Contracts Awarded by Type (through FY12)**
  - \$137,452,081 - Small Disadvantaged Business
  - \$174,992,365 - Women-Owned Small Business
  - \$ 49,500,421 - HUBZone Small Business
  - \$101,069,259 - Veteran-owned Small Business
  - \$ 6,611,218 - Service-Disabled Veteran-Owned Small Business

# Material Quantities Installed

<b>Structural Concrete</b>	<b>&gt;138,200 cubic yards</b>
<b>Non-Structural Concrete</b>	<b>51,369 cubic yards</b>
<b>Rebar</b>	<b>&gt;21,700 tons (&gt;43,400,000 lbs.)</b>
<b>Process Pipe to be installed</b>	<b>~80 miles</b>
<b>Tanks</b>	<b>66 of 73</b>
<b>Electrical Cable to be installed</b>	<b>~1,100 miles</b>
<b>Process Systems to be installed</b>	<b>294</b>

# August 2007

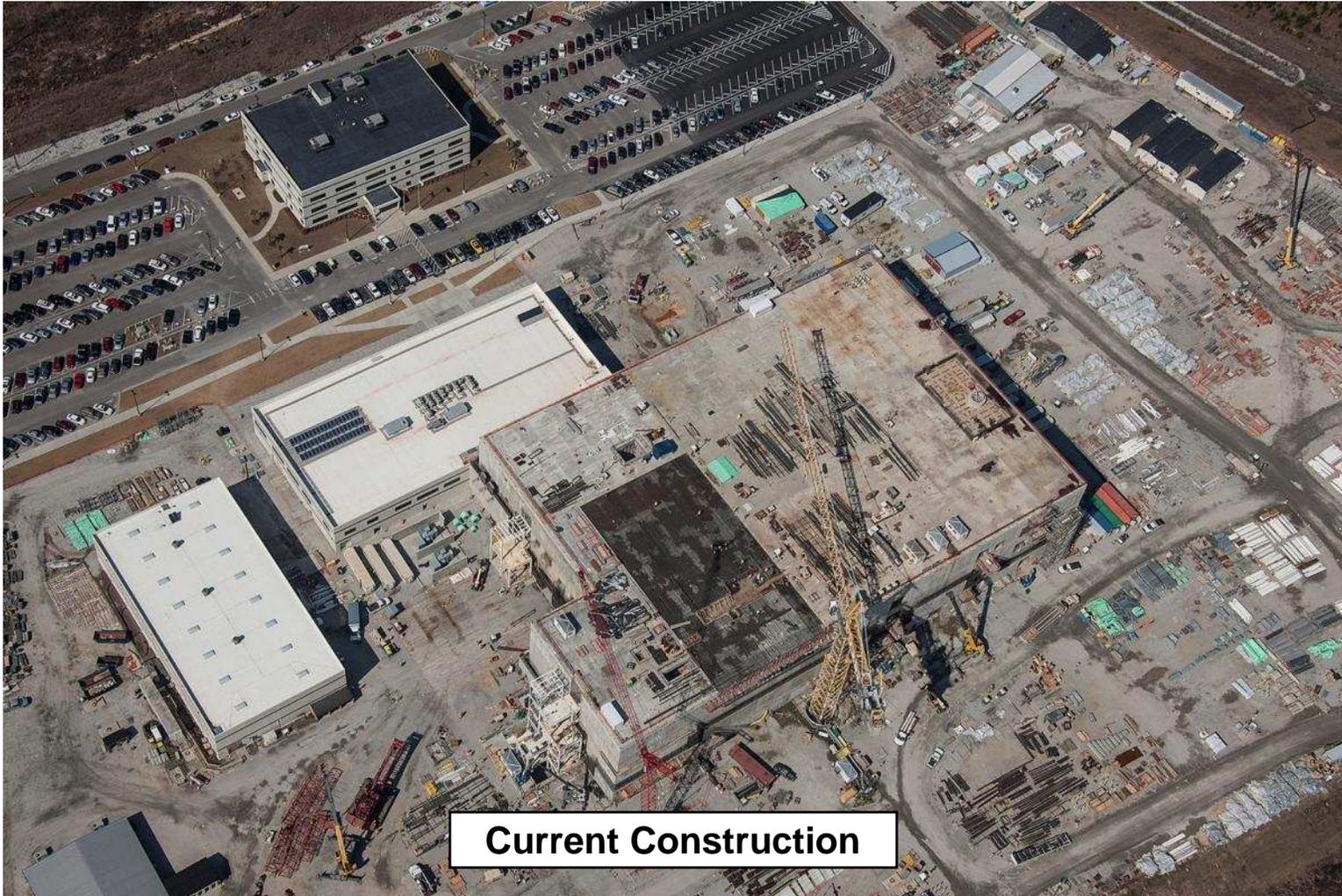


**Start of Construction**

# October 2011



# March 2013



**Current Construction**

# Technical Support Building



# Active Gallery Modules



# HVAC Components



# Mechanical Installation



# Process Unit Equipment and Gloveboxes

PSI Scrap Pellet Storage  
being installed in MFFF



# Conclusion

