



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

May 2, 2018

MEMORANDUM TO: Michael Ernstes, Chief
Construction Inspection Branch 2
Division of Construction Oversight

FROM: Paul Carman, Project Manager **/RA/**
Construction Inspection Branch 2
Division of Construction Oversight

SUBJECT: PUBLIC MEETING SUMMARY– MOX FUEL FABRICATION
FACILITY, DOCKET NO. 70-3098

On April 17, 2018, the Nuclear Regulatory Commission (NRC) staff met with members of the public concerning the annual assessment of the MOX Fuel Fabrication Facility (MFFF) Aiken, South Carolina. The purpose of the meeting/open house session was to provide opportunities to discuss the annual assessment of MFFF, with the public for the period of January 1, 2017 – December 31, 2017. Enclosed is a list of attendees.

The following NRC staff attended the public meeting:

Michael Ernstes, Chief, Construction Inspection Branch 2 (CIB2), Division of
Construction Oversight (DCO), RII
Roger Hannah, RII Senior Public Affairs Officer
Jason Eargle, Senior Project Manager, CIB2, DCO, RII
Paul Carman, Project Manager, CIB2, DCO, RII
David Tiktinsky, Senior Project Manager, Office of Nuclear Materials Safety and
Safeguards

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

Enclosure: As stated

CONTACT: Michael Ernstes, RII/DCO/CIB2
404-997-4540

MEETING SIGN-IN SHEET

Project: CB&I AREVA MOX Services Annual Performance Assessment Meeting

Meeting Date: April 17, 2018

Facilitator: Paul Carman, USNRC RII

Place/Room: Applied Research Center, Garden Conference Room
New Ellenton, South Carolina

Name (please print)	Title	Affiliation
W. B. Gloersen	Retired	—
HARRY HARMON	RETIRED, CONSULTANT	
KEN BAER	SFR GROUP	
Sue King	Retires	
COLEEN DEMAREST	AIKEN STANDARD	
Joe Murphy	Consultant	
Tim Bennett	Barnwell County, SC	
BEN KINLAN	BARNWELL COUNTY	
Jeggy Kinlaw	Barnwell County	
Michael Jackson	SRS	
Kevin Carter	Aiken County	
Willie Seas	Aiken County	
Jim Marra	Executive Director	CNTA

MIXED OXIDE FUEL FABRICATION FACILITY

Construction Inspection Program

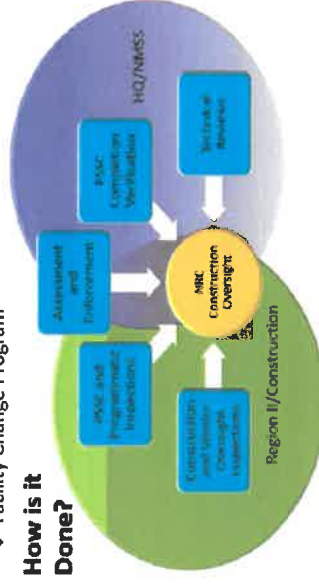
Region II Atlanta, Georgia



Inspection Program Overview

- ❑ Resident Inspector Program
 - Jason Eargle, Senior Construction Project Inspector
 - Performs daily inspections at the Mixed Oxide Fuel Fabrication Facility
- ❑ Specialist Inspectors
 - Region II
 - Headquarters
 - Perform periodic specialized construction inspections of principal systems, structures, and components (PSSCs)
 - ❖ Civil and Structural
 - ❖ Mechanical Components
 - ❖ Special Processes (welding)
 - ❖ Electrical Components (Instrumentation and Controls; Software)
 - ❖ Criticality Safety
- Perform periodic program inspections
 - ❖ Quality Assurance Program
 - ❖ Corrective Action Program
 - ❖ Facility Change Program

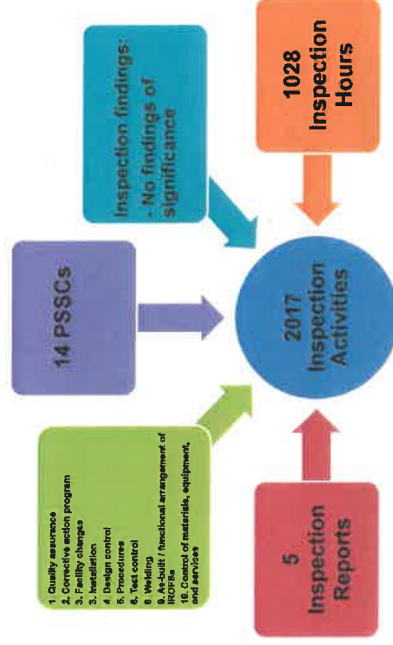
How is it Done?



Other Inspection Activities

- ❑ Allegations
- ❑ Investigations
- ❑ Reactive Inspections

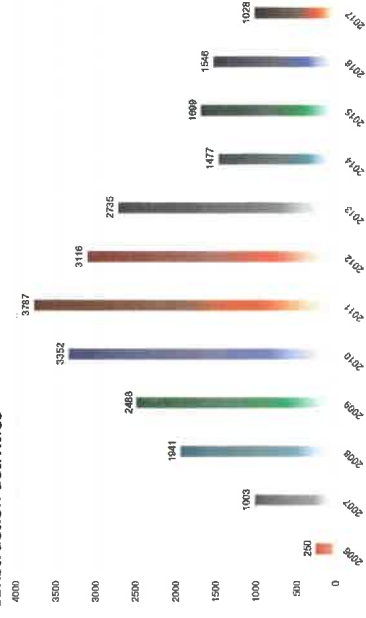
What have we inspected in 2017?



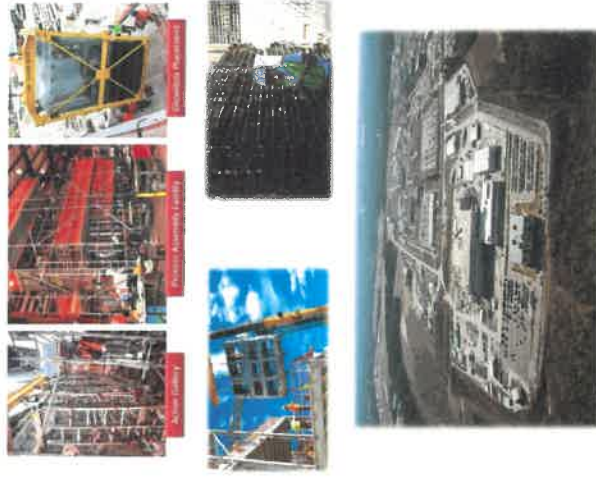
5 out of 53 PSSCs have been submitted for verification of completion

Historical Inspection Activity

Our level of inspection effort is commensurate with the level of onsite construction activities



What does NRC inspect?



❑ In 2018, NRC plans to conduct routine program inspections and inspections of the principal systems, structures, and components (PSSCs) consistent with Inspection Manual Chapter (IMC) 2630 and commensurate with on-going construction activities at the MFFF

- Program Inspections
 - ❖ Quality Assurance Program
 - ❖ Corrective Action Program
 - ❖ Facility Change Program
- PSSC Inspections
 - ❖ Filtration Systems
 - ❖ Gloveboxes
 - ❖ Process Piping
 - ❖ Diesel Generators
 - ❖ Building Structures

MIXED OXIDE FUEL FABRICATION FACILITY

Annual Assessment Meeting

Aiken, South Carolina April 17, 2018



Purpose of the Annual Assessment

- Inform MOX Services of the results of their performance during the previous calendar year (2017)
- Public forum for discussion of the Mixed Oxide Fuel Fabrication Facility's performance in 2017
- Discuss the performance issues identified during the annual assessment
- Provide a basis for adjusting the focus of inspections at the Mixed Oxide Fuel Fabrication Facility in 2018

NRC Strategic Plan Goals

- To provide assurance in the safety of future operations at new nuclear facilities by ensuring that licensees and applicants construct the facilities according to approved design criteria, using appropriate practices and quality materials.

Quality Assurance in Action

Facility changes will be evaluated for impact on safety related facility equipment and operations before being installed.



Procurement documents for items relied on for safety will identify all relevant quality and technical requirements.



Design drawings, work instructions, and procedures must be maintained up to date, and the current copies must be available at the location where work is being performed.



Periodic NRC inspections are performed to monitor equipment installations and provide reasonable assurance that the facility is constructed according to approved design criteria and regulatory requirements.

Areas of Assessment

- Continuous and Annual Assessments
 - Quality Assurance Program
 - Corrective Action Program
 - Design Control
 - Engineering Activities
 - Construction Oversight
 - Construction of principal, systems, structures, and components (PSSCs)
 - Maintenance of completed PSSCs
 - Pre-operational Oversight
 - Operational Readiness Activities
 - Other Areas (Licensing Activities)

Annual Assessment



Construction Action Matrix

Action Matrix Columns



Increasing Regulatory and Safety Significance

As performance declines, the level of regulatory oversight increases

- Inspection
- Management Involvement
- Regulatory Action

2017 Annual Assessment Results

Inspection Findings

- No findings of significance were identified in inspections conducted during this assessment period.

Annual Assessment Findings

- MFFF was constructed in a manner that preserved public health and safety and was consistent with the Commission's rules and regulations and the conditions of the Construction Authorization
- Our inspections indicated that the construction program was sufficiently implemented to support ongoing construction activities
- The NRC determined in its March 2, 2018, annual assessment letter that the Mixed Oxide Fuel Fabrication Facility transitioned from the Regulatory Response Column 2 to the Licensee Response Column 1 of the NRC's Action Matrix during the second quarter of 2017, and remained in Column 1 for the remainder of the assessment period
- On April 10, 2017, NRC conducted an inspection to verify corrective actions addressing the SLIII problem
- NRC plans to conduct routine inspections of the principal systems, structures, and components commensurate with on-going construction activities at the MFFF during 2018

Quarter	2017 Construction Action Matrix Results			
	1 st	2 nd	3 rd	4 th
MFFF	Column 2 (Requirements met with some challenges)	Column 2 / Column 1	Column 1 (Requirements fully met)	Column 1 (Requirements fully met)
Basis	1 SLIII from Q3 2016	Assessment follow-up letter of SLIII problem	No findings	No findings

Memorandum to Michael Ernstes from Paul Carman dated May 2, 2018.

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DOCKET NO. 70-3098

PUBLICLY AVAILABLE NON-PUBLICLY AVAILABLE SENSITIVE NON-SENSITIVE
ADAMS: Yes ACCESSION NUMBER: __ML18127B172__ SUNSI REVIEW COMPLETE FORM 665 ATTACHED

OFFICE	RII:DCO	RII:DCO				
NAME	PCarman	MErnstes <i>PM/2</i>				
DATE	4/18/2018	5/1/2018	5/ /2018	5/ /2018	5/ /2018	5/ /2018

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