



UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION II
245 PEACHTREE CENTER AVENUE N.E., SUITE 1200
ATLANTA, GEORGIA 30303-1200

August 29, 2023

MEMORANDUM TO: Anthony D. Masters, Director
Division of Fuel Facility Inspection
Region II

A handwritten signature in cursive that reads "Anthony Masters".

Signed by Masters, Anthony
on 08/29/23

FROM: Michael C. Greenleaf, Technical Assistant
Division of Fuel Facility Inspection
Region II

SUBJECT: SUMMARY OF AUGUST 15, 2023, FUEL CYCLE CONSTRUCTION
OVERSIGHT WORKSHOP PUBLIC MEETING

The staff of the U.S. Nuclear Regulatory Commission (NRC) conducted a hybrid meeting (in-person and virtual via Microsoft Teams) with representatives of the Nuclear Energy Institute (NEI), licensees in the fuel facility industry, applicants for licenses under 10 CFR Part 70, and members of the public on August 15, 2023. The purpose of the meeting was to discuss proposed updates to the construction inspection program for fuel cycle facilities. Topics discussed include lessons-learned from other nuclear construction projects, proposed characterization of potential findings, and conduct of readiness-reviews prior to the authorization to possess special nuclear material. The workshop included presentations on inspection sample selection using a risk-ranking methodology, applicability of management measures during pre-construction, construction, and pre-operations phases, and risks of construction prior to the issuance of a license.

The public meeting notice with the agenda, and the meeting presentations are available in the Agencywide Documents Access and Management System (ADAMS) under Accession Numbers: ML23220A428, ML23219A025, ML23214A377, ML23219A026, ML23219A027, ML23219A028, ML23219A024, ML23219A029, ML23219A030.

Meeting Summary:

The meeting began with the NRC providing an overview of the meeting's purpose and logistics. Opening remarks were made by Laura Dudes, Regional Administrator – Region II, and Anthony Masters, Director – Division of Fuel Facility Inspection.

After opening remarks, the NRC staff provided a series of morning presentations followed by question and answer (Q&A) sessions. Morning presentations covered proposed updates to Inspection Manual Chapter (IMC) 2694 and its associated inspection procedures (IPs); lessons learned from previous nuclear construction projects; at-risk construction; and the characterization of inspection findings, annual assessments, and readiness reviews. The morning session presentations were chaired by Omar Lopez-Santiago, Director for the Division of Construction Oversight, Region II.

A series of afternoon presentations were given that covered a risk-informed inspection sample tool for Items Relied Upon for Safety (IROFS) during construction and readiness reviews, and a presentation describing expectations for management measures inspections during pre-construction, construction, and pre-operations phases of a fuel facility construction project. The afternoon session concluded with an open forum Q&A session. The afternoon session presentations were chaired by Anthony Masters, Director for the Division of Fuel Facility Inspection, Region II.

The meeting was closed by Carrie Safford, Deputy Director for the Division of Fuel Management, in the Office of Nuclear Material Safety and Safeguards.

Action Items:

Stemming from this meeting, the NRC has committed to ongoing discussions related to fuel facility construction inspection program development via additional public meetings – and during the next public Fuel Facilities Stakeholder Meeting that is tentatively scheduled for November 8, 2023. Based on discussions held during the public meeting, the NRC has broadly captured the following action items that will be addressed in subsequent meetings:

- The NRC will clarify the applicability of the Construction Inspection Program (IMC 2694) for existing licensees undergoing construction.
- The NRC will provide resource estimate(s) for licensee/applicant budgeting purposes for construction oversight.
- The NRC will engage in public meetings to work through examples, questions, and inspection scenarios with licensees, applicants, and the public.
- The NRC will clarify the scope of inspections for licensee/applicant structures that are not designated as IROFS.
- The NRC will engage in further discussion on procurement inspection, QC inspection, and acceptance criteria for commercial items used in IROFS.

In accordance with Title 10 of the Code of Federal Regulations (CFR) 2.390 of the NRC's "Rules of Practice," a copy of this letter will be available electronically for public inspection in the NRC Public Document Room (PDR) or from the Publicly Available Records (PARS) component of NRC's document system (ADAMS). ADAMS is accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

Should you have any questions concerning this meeting, please contact Michael Greenleaf at (404) 997-4495.

Enclosure:

List of Attendees

SUBJECT: SUMMARY OF AUGUST 15, 2023, FUEL CYCLE CONSTRUCTION OVERSIGHT WORKSHOP PUBLIC MEETING DATED AUGUST 29, 2023

DISTRIBUTION:
 O. LOPEZ-SANTIAGO
 C. SAFFORD

ADAMS ACCESSION NUMBER: ML23234A129

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OFFICE	RII/DFFI	RII/DFFI			
NAME	M. Greenleaf	O. Lopez-Santiago	C. Safford	A. Masters	
DATE	08/23/2023	08/29/2023	08/28/2023	08/29/2023	

LIST OF ATTENDEES

This list of Attendees was captured via the in-person and virtual attendance sheets:

Name	Organization
Jack Higginbotham	American Fuel Resources, LLC
David H. Tiktinsky	Boston Government Services, LLC
Dave Spangler	BWXT
Dino Almendral	BWXT
Daniel Ashworth	BWXT
Julian Amalraj	Canadian Nuclear Safety Commission
Kelly L. Fitch	Centrus Energy
Marty Karr	Centrus Energy
Deann Raleigh	Curtiss Wright
Michael Crawford	Framatome
Vince Gallacher	Framatome
Calvin Manning	Framatome
Thomas Owens	Global Laser Enrichment
Stephen Long	Global Laser Enrichment
Patt Jenny	Global Laser Enrichment
Scott Steuer	Global Laser Enrichment
Brian Stone	Global Nuclear Fuels
Scott Murray	Global Nuclear Fuels
Steven Pope	Information Systems Laboratories Inc.
Jim Tomkins	Kairos
Michael Ellett	Kairos
Robert Link	Nuclear Energy Institute
Janet Schlueter	Nuclear Energy Institute
Nima Ashkeboussi	Nuclear Energy Institute
Tim Knowles	Nuclear Fuel Services
Clifton T Gibson	Nuclear Fuel Services
Melinda Graham	Nuclear Fuel Services
Ashley Morris	Nuclear Fuel Services
Ed Petit de Mange	Oklo Inc.
Mory Diané	Oklo Inc.
Andrea Jennetta	S&P Global
Morgan Murphy	Tennessee Valley Authority
Dennis Allen Petrarca	Tennessee Valley Authority
Jim Kloosterman	TetraTech
Matthew Neuman	TetraTech
Gerard Couture	TRISO-X
Jennifer Wheeler	TRISO-X
Richard Maurer	TRISO-X
Kyle Miller	Urenco USA
Wyatt Padgett	Urenco USA
Chris Schwarz	Urenco USA

Name	Organization
Jason R. Beebe	Westinghouse
Francis J. Byrne	Stone & Webster
Nathaniel J. Mackereth	Westinghouse
Mike C. Miller	Westinghouse
Annette H. Pope	Westinghouse
Stephen G. Subosits	Westinghouse
Masato Ono	No Organization Provided
William Satterfield	No Organization Provided
Cameron Walker	No Organization Provided
John Pfabe	No Organization Provided
Alana Bell	NRC
Brian Griman	NRC
Catherine Kanatas	NRC
Charles Kreuzberger	NRC
Cynthia Taylor	NRC
Dave Gasperson	NRC
Gregg Goff	NRC
Haile Lindsay	NRC
Jason Eargle	NRC
Jennifer Tobin	NRC
Joseph Grice	NRC
Joylynn Quinones-Navarro	NRC
Kevin Bernstein	NRC
Kevin Roach	NRC
Larry Harris	NRC
Luis Colon Fuentes	NRC
Matt Bartlett	NRC
Mauri Lemoncelli	NRC
Michael Greenleaf	NRC
Natreon Jordan	NRC
Nicole Coovert	NRC
Noel Pitoniak	NRC
Osiris Siurano-Perez	NRC
Patricia Glenn	NRC
Patricia Jehle	NRC
Paul Startz	NRC
Peter Yarsky	NRC
Raju Patel	NRC
Robert Williams	NRC
Samantha Lav	NRC
Shana Helton	NRC
Stephen Poy	NRC
Thomas Vukovinsky	NRC
Todd Shewmaker	NRC

Name	Organization
Travis Jones	NRC
Yawar Faraz	NRC
Robert Mathis	NRC
Joel Rivera-Ortiz	NRC
Noah Woodyard	NRC
Cameron Ubben	NRC
Eric Michel	NRC
Carrie Safford	NRC
Matthew Bartlett	NRC
Aaron Thomlinson	NRC
Anthony Masters	NRC
Katie McCurry	NRC
Laura Dudes	NRC
Benjamin Karmiol	NRC
Omar Lopez-Santiago	NRC
Anthony Ponko	NRC
George Khouri	NRC