



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D.C. 20555-0001

August 21, 2025

MEMORANDUM TO: Samantha Lav, Chief  
Fuel Facility Licensing Branch  
Division of Fuel Management  
Office of Nuclear Material Safety  
and Safeguards

A handwritten signature in blue ink, appearing to read "Siurano-Perez, Osiris".

Signed by Siurano-Perez, Osiris  
on 08/21/25

FROM: Osiris Siurano-Pérez, Project Manager  
Fuel Facility Licensing Branch  
Division of Fuel Management  
Office of Nuclear Material Safety  
and Safeguards

SUBJECT: SUMMARY OF JULY 2, 2025, PARTIALLY CLOSED MEETING  
WITH ORANO ENRICHMENT USA, LLC

On July 2, 2025, the U.S. Nuclear Regulatory Commission (NRC) staff held a hybrid, partially closed meeting with representatives from Orano Enrichment USA, LLC (Orano), to continue discussions regarding Orano's plans for submitting an application to the NRC for a Title 10 of the *Code of Federal Regulations* Part 70, "Domestic Licensing of Special Nuclear Material," special nuclear materials license for the construction and operation of Project IKE, a uranium enrichment facility to be located in Oak Ridge, Tennessee. The purpose of the meeting was to discuss integrated safety analysis (ISA), management measures, quality assurance (QA), and material control and accounting (MC&A) requirements and programs for the facility. The meeting was divided into three sessions: an open and a closed session in the morning, and an additional closed session in the afternoon.

I am enclosing the summary of the meeting for your use. The summary contains no proprietary or sensitive information. The NRC and Orano cognizant staff reviewed this summary for factual correctness.

Docket No. 07007038

Enclosure:  
Summary of Partially Closed Meeting with Orano  
Enrichment USA, LLC: Integrated Safety Analysis,  
Management Measures and Quality Assurance  
and Material Control and Accounting

cc: Peter Vescovi, Orano USA

CONTACT: Osiris Siurano-Pérez, NMSS/DFM  
301-415-7827

SUBJECT: SUMMARY OF JULY 2, 2025, PARTIALLY CLOSED MEETING WITH ORANO  
ENRICHMENT USA, LLC

DATED: August 21, 2025

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OFFICE	NMSS/DFM/FFLB	NMSS/DFM/FFLB	NMSS/DFM/FFLB	NMSS/DFM/FFLB
NAME	OSiurano-Pérez	WWheatley	SLav	OSiurano-Pérez
DATE	08/06/2025	08/18/2025	08/21/2025	08/21/2025

**OFFICIAL RECORD COPY**

**Summary of Partially Closed Meeting with Orano Enrichment USA, LLC  
Integrated Safety Analysis, Management Measures and Quality Assurance,  
and Material Control and Accounting**

Date and Time: July 2, 2025, 9:50 AM – 3:00 PM

Meeting Participants:

U.S. Nuclear Regulatory Commission (NRC)

Suzanne Ani, Office of Nuclear Material Safety and Safeguards (NMSS)  
Geron George, NMSS  
Shana Helton, NMSS  
Samantha Lav, NMSS  
Langston Lewis, NMSS  
Jonathan Marciano, NMSS  
John Russell, NMSS  
Osiris Siurano-Pérez, NMSS  
Glenn Tuttle, NMSS  
Yilia Vega-Claudio, NMSS  
Brian Wagner, NMSS

Orano Enrichment USA, LLC (Orano)

David Anderson  
Lionel Antognelli  
Brian Mekdeci  
Travis Mueller  
Adam Shepard  
David Tiktinski  
Peter Vescovi

Virtual

Dana Kim, Orano  
Paul Tiao, Orano

**Summary of Discussions**

On July 2, 2025, the NRC staff from NMSS conducted a partially closed meeting with representatives from Orano, to continue pre-application discussions regarding the upcoming submittal of a license application for Orano's Project IKE, a new uranium enrichment facility, to be located in Oak Ridge, Tennessee. The purpose of this meeting was to discuss integrated safety analysis (ISA), management measures, quality assurance (QA), and material control and accounting (MC&A) requirements and programs for the IKE enrichment facility.

**Open session**

The meeting's business portion kicked off with the NRC staff introducing the meeting's purpose and establishing the ground rules, followed by the introduction of the attendees. Both NRC and

Enclosure

Orano managers followed with their opening remarks. Following the introductory remarks, Orano discussed the importance of early interactions and feedback to streamline the application process, an overview of their company and the Ike enrichment facility project. The business portion of the meeting continued with a brief questions and answers session between Orano and the NRC staff, after which, the business portion concluded. A public comments and answers session followed. However, no members of the public attended the meeting and, therefore, the NRC staff proceeded to adjourn the open portion of the meeting at around 10:30 AM.

#### Morning closed session

The first closed session of the meeting started at around 10:35 AM. During this session, Orano discussed, in further detail, its ISA process for the proposed facility, including hazard analysis, accident sequence evaluation, and identification of items relied on for safety (IROFS). Orano discussed their grading system for IROFS to determine management measures and quality levels. Orano emphasized the use of operational experience from Orano's Georges Besse II uranium enrichment plant (GB2) in France to inform the ISA for IKE. A short discussion on the use of NEI guidance for the ISA summary format and the importance of maintaining consistency with previous applications was held. Following this discussion, the first closed session of the meeting was adjourned.

#### Afternoon closed session

The afternoon's closed session of the meeting started at around 1:05 PM. During this session, Orano presented the proposed MC&A program for the IKE facility followed by a discussion on the structure of material balance areas (MBAs) and item control areas (ICAs) within the facility. Orano also provided a description of the safeguards measures, including load cells, online mass spectrometers, and the importance of maintaining accurate and precise measurements. During the discussions, Orano stated that it is considering future plans for potentially upgrading the facility to handle Category 2 material. The NRC staff also discussed classification and handling of safeguards information and the regulatory requirements for submitting classified sections of the application. A short, final questions and answers session was followed by a discussion of plans for coordinating additional pre-application meetings during which Orano intends to discuss the following topics:

- Methodology for risk assessment
- Detailed ISA methodology
- Grading of IROFS (in further detail)
- NRC expectations for Human Factors Engineering commitments
- International safeguards
- Natural Hazards Phenomenon as these relate to structural design basis for building codes
- Material "at risk" in context of the layout of the facility

Following the discussion of these plans, at around 3:00 PM the meeting was adjourned.

### **Action Items**

#### *1. For Orano*

- Coordinate with the NRC staff to schedule a follow-up meeting in August to discuss ISA methodology in detail
- Provide additional information to the NRC staff on the facility layout and material at risk analysis
- Continue developing the ISA and MC&A programs incorporating feedback from the NRC
- Start providing draft application chapters to the NRC staff for comments and observations

#### *2. For NRC staff*

- Arrange meetings between Orano and the NRC human factors technical reviewers and between Orano and the NRC international safeguards team to conduct additional pre-application discussions
- Review the draft chapters, once shared by Orano, and provide feedback.

### **PRINCIPAL CONTRIBUTOR**

Osiris Siurano-Pérez