MEETING SUMMARY (OPEN SESSION)

Subject: SUMMARY OF JUNE 23, 2025, PARTIALLY CLOSED PRE-APPLICATION CRITICALITY SAFETY PUBLIC MEETING WITH WESTINGHOUSE COLUMBIA FUEL FABRICATION FACILITY

Date: June 23, 2025

Following the introductions, Westinghouse Columbia Fuel Fabrication Facility (CFFF) staff presented its slides (Agencywide Documents Access and Management System Accession No. ML25174A216) pertaining to the criticality safety program for its planned low-enriched uranium plus (LEU+) expansion at the CFFF site in Hopkins, South Carolina.

During the meeting, the U.S. Nuclear Regulatory Commission (NRC) provided guidance and expectations for the upcoming application from Westinghouse CFFF. The NRC emphasized the importance of including detailed information on the following aspects in the application:

- **Nuclear Criticality Safety Program:** The application should outline the design controls and barriers implemented to prevent criticality accidents, adhering to the double contingency principle.
- **Criticality Alarm Systems:** The facility must have an audible criticality accident alarm system, and the emergency plan should detail alarm response and employee protections.
- **Subcriticality Assurance:** The application should demonstrate that normal operations are subcritical and maintain subcriticality during credible abnormal operations.
- **Staffing and Qualifications:** The application should include the qualifications and training of nuclear criticality safety professionals.
- **Validated Computer Codes:** The use of validated computer codes for calculating the effective neutron multiplication factor (k_{eff}) should be documented.

There was a shared understanding between the NRC and Westinghouse CFFF on several key points:

- **Consistency with Existing Programs:** Westinghouse CFFF agreed on maintaining consistency between the current nuclear criticality safety program and the proposed program for the LEU+ expansion.
- **Use of Industry Standards:** There was alignment on the use of industry standards and best practices for criticality safety.
- **Management Measures:** Westinghouse CFFF staff recognized the importance of applying management measures in areas such as nonconformances, procedures, and audits.

After no additional questions or comments, the open portion of the meeting was adjourned.

PRINCIPAL CONTRIBUTOR
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