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## Agenda

- Purpose
- Chemical Safety Audits
  - Process
  - Observations
  - Audit Summary Reports
- Next Steps
- Questions/Feedback



#### Purpose

 Inform industry of the chemical safety audits observations and results.

 Inform industry on staff's path forward and next steps.



- Staff conducted audits at 5 fabrication facilities:
  - AREVA-Richland
  - BWXT
  - GNF-A
  - NFS
  - Westinghouse
- The purpose of the audits was to gain a better understanding of the chemical safety program used to identify, analyze and manage chemical hazards and current practice.
- Audits were conducted during a 1 or 2-day site visit between the months of June and July, 2016.



#### Audit Scope:

- Operations under NRC's jurisdiction
- Evaluation of chemical exposures
- Proposed standards when necessary
- Worker protection program

#### Information reviewed:

- Sample of chemical safety ISA scenarios
- Internal and operating procedures
- Process hazard analyses, ISAs related to chemical hazards.
- Safety controls and worker protection



#### Audit topics:

- 1. Chemical hazards scope
- 2. Phases of operations
- Reactive and toxic chemicals
- 4. Exposure pathways
- 5. IROFS and management measures

#### Audit Team:

- Branch Chief: Robert Johnson/Omar Lopez
- Technical Lead: Marilyn Diaz
- Technical Support: James Hammelman



#### **Audit Observations**

- No immediate safety concerns.
- Processes, equipment, practices, safety management programs are different for each licensee.
- Two licensee's have chemical safety programs that demonstrate compliance with Subpart H regulations.
- Two licensee's have implemented program changes and are working towards compliance.
  - Event reports declared non-compliance and corrective actions.
- One licensee's ISA methodology does not consider all exposure pathway.
  - Represents a weakness if they were processing licensed material comingled with a non-inhalation hazard (e.g., HF).



#### **Next Steps - Audits**

- Audit Summary Reports are expected to be completed by the end of October 2016.
  - One audit summary report has been issued.
- General Summary Report
  - Staff will be developing a general summary report documenting the audits results.
  - Expected to be completed by the end of the 1<sup>st</sup> quarter FY2017.
- The information discussed in these audit summary reports may be included, fully or in part, in the Commission Paper related to the ISG.



#### Next Steps – ISG

- Staff is working on the Commission Paper which is expected to be submitted to the EDO by December 31, 2016.
- Commission paper will discuss issuance of the ISG.
- The ISG will improve the quality, clarity and consistency of the staff's review of ISA summaries and the underlying ISAs with respect to chemical hazards.
- Industry feedback



## Questions



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