

Public Version





CoC 1004 Amendment 15 Pre-Application Meeting

AREVA TN

August 17, 2016



Agenda

▶ Introduction/Purpose

- ◆ Discuss AREVA's plans for Amendment No. 15 to CoC 1004

▶ Desired Outcome

- ◆ Have a clear, common understanding of the approach for Amendment No. 15, including scope and schedule
- ◆ Receive feedback from the NRC staff

▶ Amendment Background and Scope

- ◆ NOTE: A portion of our criticality and thermal analysis methodologies is Proprietary

▶ CoC Renewal and Schedule

▶ Discussion and Public Comments

▶ Closed Portion of Meeting – Proprietary

Background and Scope (1/3)

▶ Need for Amendment

- ◆ Customer (existing general licensee) request
- ◆ Expanded contents, new fuel types
- ◆ More flexibility in fuel, poison, loading combinations
- ◆ Additional Heat Load Zoning Configurations (HLZCs) to accommodate loading schedules

▶ Consideration for Tech Spec Simplification

▶ Scope Items Generic to Multiple NUHOMS® DSC types

- ◆ Requirements for solar shield, rain shield during transfer operations
- ◆ Simplification of FQTs
- ◆ Characterization of Control Components
- ◆ Expanded cladding materials

Background and Scope (2/3)

▶ 32PT DSC Scope

- ◆ **Address damaged fuel, up to 16 FAs**
 - Allowance for End Caps
 - Slipped and Damaged Grids
- ◆ **Include PRAs in Type A1 and Type A2 baskets**
 - Employ alternative absorber materials for PRA Specification
- ◆ **FQTs at reduced uranium loading**

▶ 32PTH1 DSC Scope

- ◆ **New HLZCs**
 - No increase to DSC total heat load
 - An additional uniform HLZC
 - An additional zoned HLZC
- ◆ **FQTs at reduced uranium loading**
 - Similar to Amendment 14

Background and Scope (3/3)

▶ 61BTH DSC Scope

◆ Address new fuel types

- GNF-2
- ATRIUM 11

◆ Separate Enrichment Limits for Damaged Fuel Assemblies with Channels

CoC Renewal and Schedule

▶ Considerations for CoC Renewal

- ◆ It is anticipated that the CoC 1004 renewal licensing action will be in the rulemaking process at the time of Amendment 15 submittal
- ◆ Therefore, the Amendment 15 application will propose any necessary CoC conditions, tech spec changes, or FSAR changes to account for renewal aspects of the Amendment 15 scope

▶ Anticipated Schedule

- ◆ Application Submittal: Q1 2017
- ◆ Amendment Effective Date: Q1 2018

Discussion & Public Comments

- ▶ Discussion & Questions
- ▶ Opportunity for Public Comments

Proprietary Information in Slides 9 and 10
Withheld Pursuant to 10 CFR 2.390

Discussion & Comment

- ▶ **Open Discussion**
- ▶ **Comments**
- ▶ **Questions**

Closing Remarks

- ▶ **Amendment 15 is a Smaller Scope Amendment**
 - ◆ Contents addition to 61BTH
 - ◆ Expanded criticality for 32PT
 - ◆ New HLZCs for 32PTH1
 - ◆ Continued Simplification of Tech Specs
 - ◆ More flexible cladding definition
- ▶ **Anticipated submittal: 1st Quarter of 2017**