Public Version

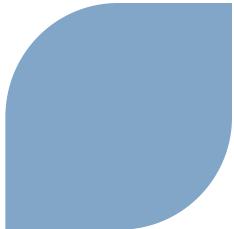








CoC 1042 EOS® Amendment - 89BTH Criticality Analysis Meeting - AREVA TN - May 12th 2016



CoC 1042 NUHOMS[®] EOS Amendment 89BTH Criticality Analysis Meeting

AREVA TN Design Engineering & Licensing Team NRC, Rockville, MD



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- Introduction
- Background
- Scope of Amendment Non-Proprietary
- Criticality Analysis Summary Non-Proprietary
- Updated Criticality Analysis Methodology Proprietary
- Submittal Format Proprietary
- Questions / Open Discussion Proprietary





Purpose of the meeting:

- To present AREVA TN's proposed new methodology to perform criticality analysis for BWR fuel assemblies-NUHOMS[®] EOS-89BTH
- Provide an opportunity to receive NRC feedback prior to inclusion in Amendment 1 to CoC 1042 application





CoC 1042 NUHOMS[®] EOS Amendment 0 resubmitted for NRC review in June 2015

Application Scope and Design Objectives

- New DSCs (including new baskets), HSMs, and Transfer Casks
- Maximize Capacity
 - 37 PWR Fuel Assemblies
 - 89 BWR Fuel Assemblies
- Increase Decay Heat Rejection
- Enhance Structural Performance
- Maintain NUHOMS[®] System Overall Design Features and Operations



Partial Scope of Amendment

Revised (New) Criticality Analysis for BWR Fuel Assemblies in EOS-89BTH DSC

A REVA forward-looking energy

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Criticality Analysis Summary



- Criticality Control by poison plates with minimum specified B-10 content
- Criticality analysis performed with SCALE
 6.0 and adequate benchmarking
- Original criticality analysis for EOS-89BTH DSC accepted by NRC without any RAIs



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Proprietary Information in Slides 8 through 36 Withheld Pursuant to 10 CFR 2.390





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