



**10 CFR 50.46c Proposed Rule Public Meeting:
NRC Opening Presentation**

June 24, 2014



Meeting Purpose

- Discuss key elements of the 10 CFR 50.46c proposed rule, as identified during the April 29-30, 2014 public meeting
- Enhance stakeholder understanding of the proposed rule to inform formal comments on the proposed rule
 - Comment period ends on August 21, 2014



Meeting Purpose (cont'd)

- NRC will not be providing formal comment responses to any oral comments made at this meeting
 - Staff will consider oral comments made in developing the final rule and guidance



Rulemaking Purpose

- Revise emergency core cooling system (ECCS) acceptance criteria to reflect recent research findings
- Replace prescriptive analytical requirements with performance-based requirements
- Expand applicability to all fuel designs and cladding materials
- Address concerns raised in two petitions for rulemaking (PRMs): PRM-50-71 and PRM-50-84
- Allow an alternative risk-informed approach to evaluate the effects of debris on long-term cooling
 - This objective was added by SRM-SECY-12-0034, “Proposed Rulemaking – 10 CFR 50.46c: Emergency Core Cooling System Performance During Loss of Coolant Accidents (RIN 3150-AH42)” dated January 7, 2013 (Agencywide Document Access and Management System (ADAMS) Accession No. ML13007A478)



Background

- Advance Notice of Proposed Rulemaking Published
 - August 13, 2009 (74 FR 40765)
 - Requested specific comment on 12 issues/questions
- Proposed rule presented to the Advisory Committee on Reactor Safeguards on January 19, 2012
 - Transcript available in ADAMS under Accession No. ML12032A048



Background (cont'd)

- Proposed rule provided to the Commission in March 2012
 - SECY-12-0034, “Proposed Rulemaking
 - 10 CFR 50.46c: Emergency Core Cooling System Performance During Loss of Coolant Accidents (RIN 3150-AH42) (ADAMS Accession No. ML112520186)
- SRM-SECY-12-0034 issued on January 7, 2013



Background (cont'd)

- Public meeting conducted on April 29-30, 2014
 - Summary available at ADAMS
Accession No. ML14128A076



Next Steps

- 75-day public comment period closes on August 21, 2014
- Address public comments
- Develop final rule
 - Due to the Commission in February 2016 (per SRM-COMSECY-13-0006)
- In parallel:
 - Develop GSI-191-related guidance for risk-informed guidance



Related Activity: Fuel Fragmentation, Relocation, Dispersal

- Commission direction in SRM-SECY-12-0034:

The staff should complete its research on fuel fragmentation, relocation, and dispersal, and incorporate any necessary changes before requesting Commission approval of the draft final rule. The staff should inform the Commission if this action is not practicable or has unintended consequences. In this case, the staff should provide the Commission an information paper containing additional details for the anticipated research into fuel fragmentation, the staff's best judgment of the impact the results of that research could have on the proposed rule, and the staff's best estimate of when final conclusions may be drawn from this work.
- Public meeting on fuel fragmentation, relocation, and dispersal held on March 13 – 14, 2014
 - Meeting summary available in ADAMS under Accession No. ML14100A131
- Next Steps
 - Continue ongoing research activities and develop technical basis and regulatory recommendation



Questions?

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