

USNRC  
Promoting Progress and the Environment

# RIC 2015



## Fermi 3: From S-COLA to First ESBWR Mandatory Hearing

Adrian Muñiz, Project Manager  
Office of New Reactors

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## Agenda

- Background
- Review efficiencies
- Challenges

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# RIC 2015



- Background
  - Application submitted in September 2008 as an ESBWR Subsequent Combined License Application (S-COLA)
  - Contains one departure from the referenced design control document (DCD)
  - Fermi became the Reference COLA (R-COLA) in July 2010
  - ESBWR design certification rule published in the *Federal Register* in October 2014
  - Final Safety Evaluation Report (FSER) issued in November 2014

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 **RIC** 2015 

- Review Efficiencies
  - Design-Centered Review Approach
    - One departure from the ESBWR DCD meant that the majority of issues within the scope of the DCD were resolved
    - Staff leveraged the review documented in the previous R-COLA Safety Evaluation with Open Items

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 **RIC** 2015 

- Review Efficiencies (cont'd)
  - Open Items Closure
    - Standard response time for Requests for Additional Information (RAIs) changed from 45 days to 30 days
    - Applicant provided most of the responses on time or ahead of schedule
    - Applicant informed NRC of delays to responding to RAIs promptly
    - Communications between the staff and applicant to clarify RAIs before they were issued
    - Open Items calls held to discuss proposed responses with the staff and target submittal dates
    - Identified schedule risks and developed mitigation plans

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 **RIC** 2015 

- Review Efficiencies (cont'd)
  - FSER developed based on a two-step approach
    - Staff reviewed Revision 6 of the Final Safety Analysis Report (FSAR) in order to develop the FSER
    - Management reviewed the FSER after confirmation that changes in the application through Revision 8 did not impact findings made in the first step

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- Challenges
  - Changes to referenced DCD
  - Issuance of new rules
  - Generic Communications

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