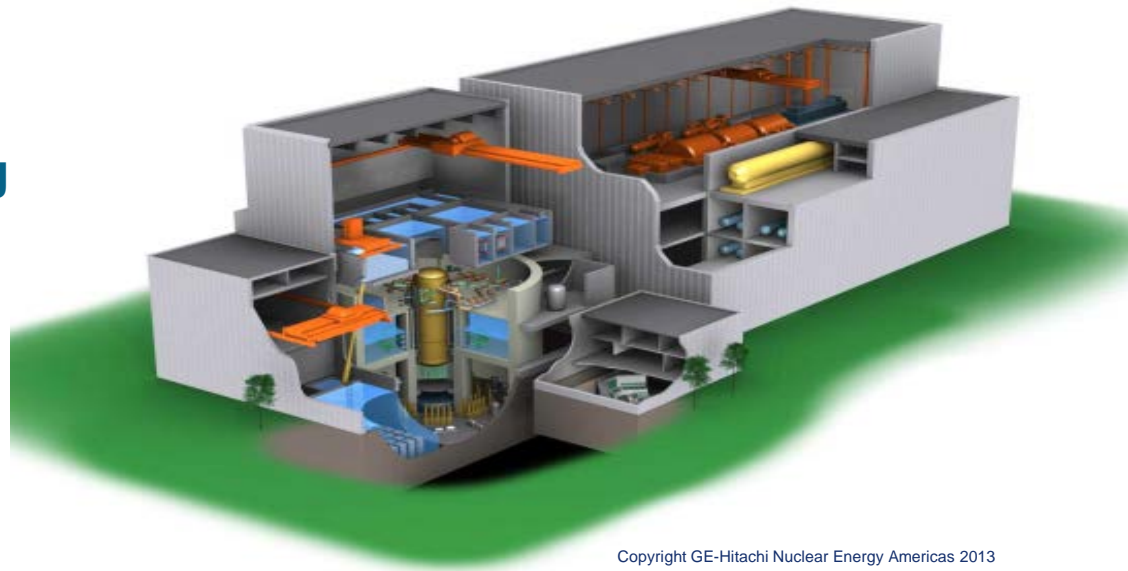


# ESBWR Design-Centered Working Group

ESBWR DCWG - NRC Meeting  
August 22, 2013



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ESBWR Design-Centered Working Group

# Agenda

- 1. Introductions of DCWG Members**
- 2. Action Items from Last Meeting**
- 3. ESBWR DCWG Goals**
- 4. ESBWR DCD Review Status**
- 5. EF3 RCOLA Review Status**
- 6. NA3 COLA Review Status**
- 7. Review of Actions Items from This Meeting**
- 8. Goals for Next Meeting**



# 1. Introductions of DCWG Members

- **CHAIR:**

- Patricia Campbell, GEH, Vice President, Washington Regulatory Affairs

- **MEMBERS:**

- **Dominion, North Anna, Unit 3 (NA3):**

- Mark Giles, Director, Nuclear Project Technical Support
- Joseph Hegner, Manager, Licensing

- **DTE Energy, Enrico Fermi, Unit 3 (EF3):**

- Peter Smith, Director, Licensing and Engineering
- Michael Brandon, Manager, Licensing

- **GEH:**

- Walter (Skip) Schumitsch, Senior Project Manager for EF3 and NA3

- **Fluor:**

- Dan Howard representing Lansing Dusek, Director, Regulatory Affairs



# 2. Action Items from Last Meeting

The ESBWR DCWG developed the following action items at the end of the 06/20/2013 meeting (see NRC Meeting Summary ML13197A469):

1. GEH will discuss the ITAAC for ASME components at the next DCWG meeting.
2. The NRC will decide when the next DCWG meeting will be scheduled.
3. The NRC will confirm the schedule for sending the RAI on NRC BL 2012-01 and GEH will confirm the schedule for submitting a response to the NRC.
4. GEH and the NRC will decide on a bi-weekly public meeting schedule to discuss GEH responses to the steam dryer RAIs.
5. General design technical specification typos have been identified. GEH and DTE will discuss the path forward to correct the typos at the next DCWG meeting.



# 3. ESBWR DCWG Goals

- **ESBWR Design Certification by 12/31/2013.**
- **EF3 COL by mid-2015 or sooner.**
- **NA3 COL in 2015.**



# 4. ESBWR DCD Review Status

## Status of ESBWR Design Certification

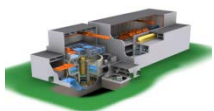
- **Final Safety Evaluation Report issued 3/9/2011.**
- **Proposed rule published 3/24/2011.**
- **Continuing reviews being conducted.**
- **Major Next Steps in Design Certification Process:**
  - **Supplemental Safety Evaluation Report to address resolution of steam dryer issues and NRC Bulletin 2012-01.**
  - **Rulemaking to reference Final and Supplemental Safety Evaluation Reports.**



# 4. ESBWR DCD Review Status

## Status of Resolution of ESBWR Steam Dryer Issues

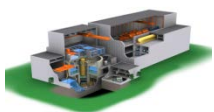
- **GEH Identified three sets of RAI Responses in 06/12/2013 letter to NRC:**
  - **RAI Set 1: Benchmarking (Bias and Uncertainty) – 08/09/2013 [complete].**
  - **RAI Set 2: Structural Analysis and Weld Treatment – 09/18/2013 [on track].**
  - **RAI Set 3: Final Licensing Document Updates – 09/25/2013 [on track].**



# 4. ESBWR DCD Review Status

## NRC Bulletin 2012-01 Regarding Loss of Single Phase in Switchyard

- NRC issued to GEH RAI 8.1-22 in letter dated 07/03/2013.
- GEH responded to RAI 8.1-22 in letter dated 07/30/2013.
  - Monitoring and alarming for a loss of single phase to be incorporated into ESBWR DCD, Revision 10 (early 10/2013).
  - Additions to Tier 2, Chapter 8, and Tier 1 (including new ITAAC for verification of monitoring and alarming functions).

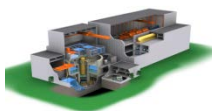




# 4. ESBWR DCD Review Status

## Summary of Changes in DCD Revision 10 (expected early 10/2013)

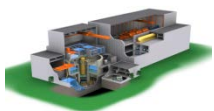
- **Changes as described in RAI responses:**
  - **Steam dryer resolution.**
  - **NRC Bulletin 2012-01.**
- **Letter to NRC with additional changes:**
  - **ASME Code ITAAC changes discussed during 06/20/2013 ESBWR DCWG meeting.**
  - **Editorial changes to Generic TS and Bases.**



# 5. EF3 RCOLA Review Status

## Goals:

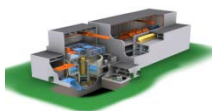
- **Continued focus on completing SSI review**
- **Improve schedule where opportunities exist**



# 5. EF3 RCOLA Review Status

## Remaining items under review:

- **Seismic/SSI-Related Items**
  - DTE continues to meet or exceed schedule.
  - NRC managing sequester impact with minimal schedule perturbation.
- **Completion of Chapter 1 SER**
  - Several RAls issued during NRC's final review.
  - DTE has responded to all questions within requested timeframe.
  - No additional questions expected.



# 5. EF3 RCOLA Review Status

## Remaining items under review (con't):

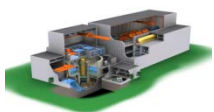
- **Miscellaneous items:**
  - **Fukushima NTTF Recommendations.**
    - **DTE has responded to all questions within requested timeframe.**
    - **No additional questions expected.**
  - **NRC Bulletin 2012-01, Design Vulnerability in Electric Power System.**
    - **Resolved for EF3 by DCD revision – IBR.**
  - **DCD Revision 10 changes to be submitted in next COLA revision (02/2014).**



# 5. EF3 RCOLA Review Status

**Significant opportunity exists for schedule improvements.**

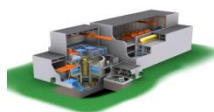
- **Sequestration has been managed with minimal or no apparent schedule impact. DTE's SSI analyses will be audited in CY 2013, as initially planned. Completion of the SSI review remains critical path. Primary purpose of audit is to confirm resolution of previously identified issues and enable completion of SER. No new issues expected.**
- **There are no known project-specific obstacles for the EF3 COLA. ASLB hearings remain on schedule for completion in CY 2013.**
- **The timely issuance of the Fermi 3 COL will simplify the Staff's review of the NA3 COLA by establishing an approved precedent and will facilitate the availability of Staff resources for issuing the NA3 COL.**



# 6. NA3 COLA Review Status

## Recent North Anna 3 Activity

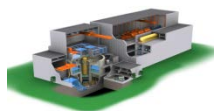
- **Dominion submitted a COLA revision on 07/31/2013, on schedule:**
  - **Restored COLA to ESBWR technology**
  - **Updated selected COLA content**
  - **Included an Action Plan to:**
    - **Submit disposition of RAIs associated with July submittal by 08/31/2013.**
    - **Submit remaining update of COLA content by 12/31/2013.**
    - **Submit disposition of RAIs associated with December submittal by 12/31/2013.**
    - **These Action Plan activities are on schedule.**



# 6. NA3 COLA Review Status

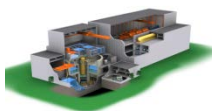
## Recent North Anna 3 Activity (cont.)

- On 08/21/2013, Dominion met with NRC to discuss the 07/31/2013 submittal.
- **Going Forward**
  - Work with the NRC to identify technical topics that would benefit from early interactions (e.g., seismic analysis, license conditions).
  - Arrange for monthly face-to-face meetings with the NRC to discuss status and resolve issues.



# 7. Review of Actions Items from This Meeting

- **Identify short-term actions to reach goals.**
- **Identify long-term actions to reach goals.**
- **Propose next DCWG meeting for mid-10/2013.**





# 8. Goals for Next Meeting

**ESBWR DCWG will continue working toward actions to achieve goals:**

- **Identify opportunities for schedule improvements and meet schedule expectations.**
- **Ensure resolution strategies for open items/RAIs have been established.**
- **Identify potential issues impacting NRC reviews.**
- **Maintain open lines of communications.**

