

Point Beach Extended Power Uprate and Alternate Source Term LAR NRC Review Planning Meeting

August 6, 2009

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Agenda

- **Opening**
- **Purpose**
- **Background**
- **Relationship of EPU LAR to AST LAR**
- **Presentation of EPU LAR Review Matrices**
- **Plan Going Forward**
- **Discussion**
- **Closing/Action Items**

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Opening

- **Appreciate Staff support to date**
- **NextEra committed to resolving long standing items (RIS 2005-20) and improving the plant**
- **Integral with the plant's recovery is the extended power uprating**
- **NextEra committed to working with Staff to respond, support and facilitate an efficient review**
 - This meeting represents one step of that process
- **Encourage active dialog between NextEra and Staff to gain the most benefit from the meeting**

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Opening

- **AST LAR Ventilation System Seismic Design**
 - NextEra recognizes numerous RAIs on seismic design of ventilation systems and understands staff is concerned with NextEra response approach
 - NextEra is committed to resolving this issue with staff
 - As suggested by staff, NextEra reviewed Hatch AST SER and associated approach for seismic evaluation of credited ventilation systems
 - NextEra will provide in forthcoming RAI responses a commitment to seismically evaluate ventilation systems credited in AST analyses (Control Room and Plant Auxiliary Building) consistent with Hatch approach
 - NextEra will work with staff to ensure a resolution acceptable to staff is secured

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Purpose

- Discuss relationships between the AST and EPU LARs to facilitate the review of the EPU LAR
- Discuss review of the EPU LAR for the three areas identified by the LAR acceptance review:
 - AFW Modifications and Technical Specifications
 - RPS/ESFAS Setpoints and Technical Specifications
 - Balance of the EPU LAR
 - Spring 2010 Outage Modifications Requiring NRC Pre-approval
- Agree on plan going forward

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Background

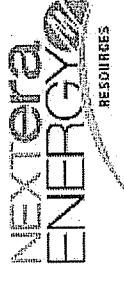
- **ASTRUM LAR**
 - Submitted – 11/08
 - Anticipated NRC Approval – 11/09
 - Implementation – 60 Days upon receipt of SER
- **AST LAR**
 - Submitted – 12/08
 - Anticipated NRC Approval – 12/09
 - Implementation – Spring 2010

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Background

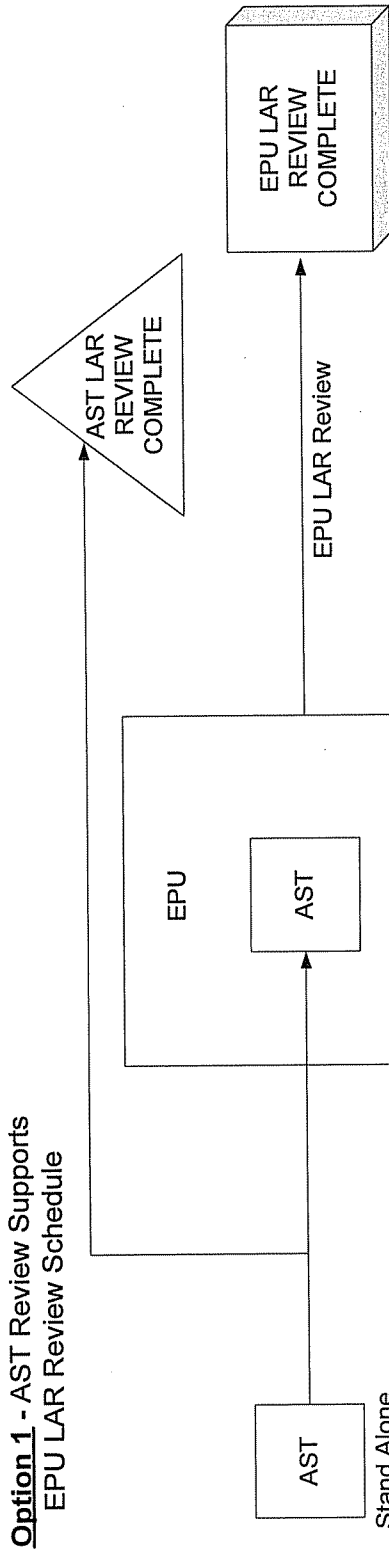
- **EPU LAR**
 - Submitted – 4/09
 - 3 Pieces (per NRC letter dated June 29, 2009)
 - AFW
 - Anticipated NRC Approval – Spring 2010
 - Implementation – Spring 2010 (both units)
 - RPS/ESFAS
 - Anticipated NRC Approval – Spring 2010
 - Implementation – Spring 2010 (Unit 1), Spring 2011 (Unit 2)
 - Balance of EPU
 - Anticipated NRC Approval – TBD
 - Implementation – Spring 2010 (Unit 1), Spring 2011 (Unit 2)

- **EPU LAR is the challenge**

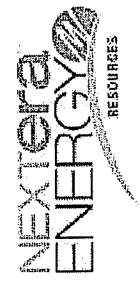
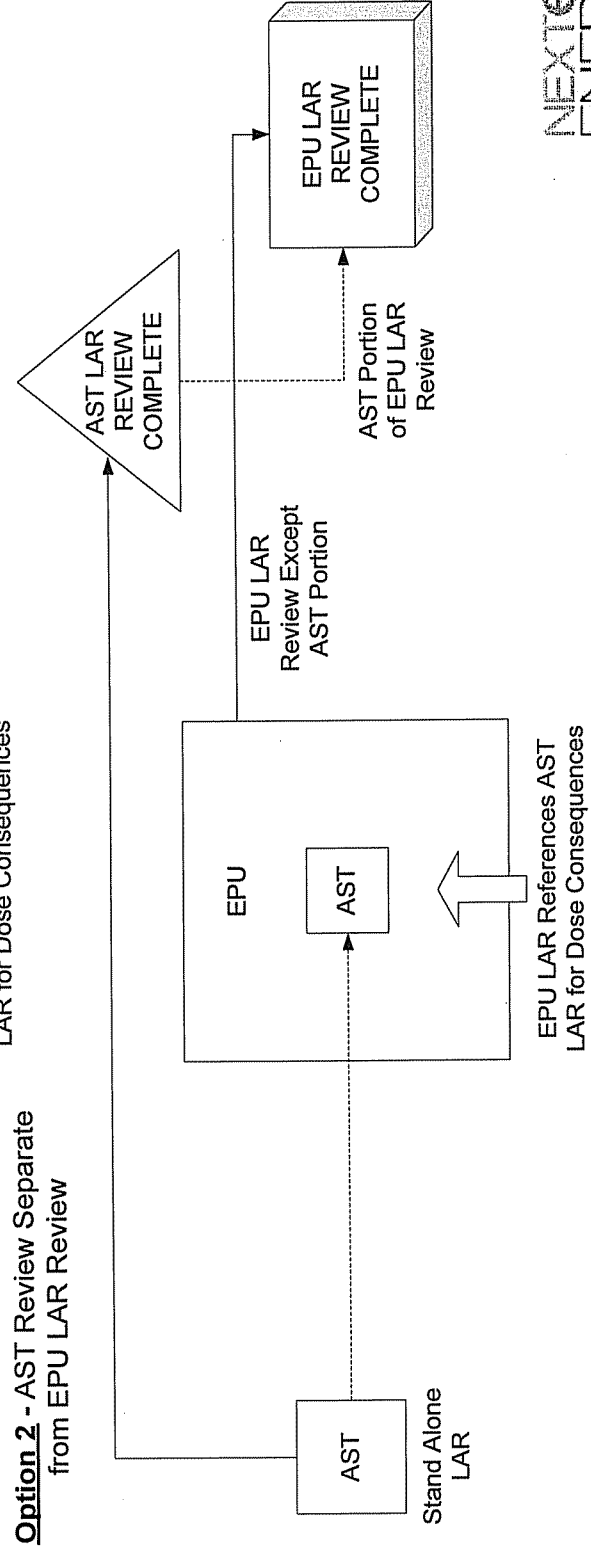


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EPU Review Plan Options



EPU LAR References AST LAR for Dose Consequences



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Relationship of EPU LAR to AST LAR

- **AST draft RAIs complete**
- **EPU LAR acceptance review can proceed**
 - AST LAR was developed as a stand alone submittal that can be reviewed, approved and implemented independent of EPU LAR
 - EPU LAR references AST for radiological consequence analyses only
 - No duplication of reviews between AST and EPU LARs
 - Similar successful approach for Seabrook SPU
 - AST LAR reviewed and approved independent of SPU LAR
 - LARs reviewed in parallel without duplication of reviews
 - Per Section 2.9.2.2.1 of EPU LAR, radiological consequence analyses input assumptions for the proposed EPU are provided in AST LAR and are applicable for the proposed EPU
- **Discussion of steps going forward**

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Presentation of EPU Review Matrices

- **AFW Technical Specifications and Modifications**
- **RPS/ESFAS Setpoint Technical Specification Changes**
- **Technical Specification Changes supporting other EPU Spring 2010 Refueling Outage Modifications**
 - Main Steam Safety Valve Settings
 - Pressurizer Safety Valve Tolerances
 - Pressurizer Technical Specification
 - Main Feedwater Isolation Valves Addition
 - Steam Generator (SG) Modifications (SG Low-Low Level Setpoint)
- **Supporting Accident Analysis Methodologies**
 - GOTHIC (Containment Analysis)
 - VIPRE (Steam Line Break Core Analysis, RWAP)
 - RETRAN (LONF, SLB, LOL, LOAC, RWAP)

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AFW Technical Specifications and Modifications

- 2 long standing (RIS 2005-20) items
- Associated EPU LAR sections
 - Auxiliary Feedwater/Condensate Storage
 - Offsite, AC Onsite and DC Onsite Power Systems
 - EDG Fuel Oil and Service Water
 - RPS/ESFAS and Control Systems
 - Setpoint Methodology
 - SBLOCA/Accident and Transient Analyses
 - Loss of Normal Feedwater/Loss of AC Power
 - Steam Generator Tube Rupture
 - Mass and Energy Releases/Containment Integrity
 - Station Blackout/ATWS
 - Fire Protection/Internally Generated Missiles/EQ/Human Factors
 - Safety Related Pumps and Valves/Ventilation Systems
 - RETRAN, GOTHIC methodology changes
 - LONF, LOAC, Containment Integrity
- See review matrix handout

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RPS/ESFAS Technical Specifications

- **3 categories of changes involved**
 - (A) Recalculated setpoints unaffected by EPU
 - Example: RPS Pressurizer Water Level—High
 - (B) Recalculated setpoints affected by EPU
 - Example: Steam Generator Water Level—Low Low
 - (C) New setpoints for EPU only
 - Example: OPDT, OTDT
- **Category (A) recalculated setpoints unaffected by EPU**
 - Staff plans to review to support Spring 2010 outage implementation on Unit 1
 - Will not resolve 2 long standing (RIS 2005-20) items
 - Existing Technical Specification issue would remain open until Category B recalculated setpoints are reviewed and approved
 - Associated EPU LAR sections
 - RPS/ESFAS and Control Systems
 - Setpoint Methodology

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RPS/ESFAS Technical Specifications

- **Category (B) recalculated setpoints affected by EPU**
 - Staff plans to review as part of balance of EPU LAR
 - Approval will resolve existing Technical Specification issue and 2 long standing (RIS 2005-20) items
 - Spring 2010 approval would support outage implementation
 - Associated EPU LAR sections
 - RPS/ESFAS and Control Systems
 - Setpoint Methodology
 - LONF, LOAC, LOF, RWAP
 - Steam Generators and Supports
 - Steam System Piping Failures
 - SLB Outside Containment
 - Plant Operability (Margin to Trip)

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RPS/ESFAS Technical Specifications

- **Category (C) new setpoints for EPU only**
 - Staff plans to review as part of balance of EPU LAR
 - Associated EPU LAR sections
 - RPS/ESFAS and Control Systems
 - Setpoint Methodology
 - Steam System Piping Failures
 - SGTR
 - Transient and Accident Analyses
 - Plant Operability (Margin to Trip)
 - Pressurizer Control Component Sizing
 - AFW
- **Also for Category (B) and (C)**
 - RETRAN, VIPRE methodology changes
 - LONF, LOAC, Steam Line Break Analyses, RWAP
- **See review matrix handout**

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Technical Specification Changes supporting other EPU Spring 2010 Refueling Outage Modifications

- **Modifications Requiring NRC Approval**
 - MSSV Technical Specifications
 - Pressurizer/PSV Technical Specifications
 - MFIV Technical Specifications
 - Steam Generator Low-Low Level (Steam Generator Modifications)
 - RETRAN, GOTHIC
 - LONF, LOL, LOAC, Containment Integrity
- **See Review Matrix Handout**

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Plan Going Forward

- Continue NRC reviews of ASTRUM and AST LARs per current schedule
 - Reviews on target to support NextEra plans for implementation
- Continue NRC reviews of AFW and RPS/ESFAS portions of EPU LAR per current schedule
 - Review and approve majority of RPS/ESFAS setpoints to avoid duplication of reviews of the same material
 - Schedule is tight to support implementation on Unit 1 during Spring 2010 outage
- Balance of EPU LAR
 - Begin acceptance review
 - Request outage related modification reviews to support implementation of the Spring 2010 EPU modifications for Unit 1 (March 2010)
 - Request validation of 12 – 14 month review for EPU application from submittal date of April 7, 2009
- NextEra stands ready to assist the staff with the review
 - Presence in White Flint, regular meetings
 - Site audits, access to records
 - Prompt replies to RAIs, tabletops, breakout meetings, etc.