

# **Seabrook Annual Assessment Meeting**

**Hampton, NH  
May 2, 2018**

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# NRC Staff

- Blake Welling, Deputy Director, DRS - Region I
- Mel Gray, Branch Chief, DRS – Region I
- Brian Wittick, Branch Chief, NRR
- Justin Poole, Project Manager, NRR
- Pete Meier, NRC Resident Inspector

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# AGENDA

- 2017 Safety Performance Overview
- NRC Inspections of ASR-impacted concrete
- ASR License Amendment Request
- License Renewal Status
- Question and Answer Session
- Closing Remarks

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# Seabrook 2017 Safety Performance Overview

- Operated safely and in a manner that preserved public health and safety
- 6,500 hours of inspection and related activities
- 6 green findings
- All green performance indicators
- Licensee Response Column

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# NRC Inspections of ASR-impacted Concrete

## What is ASR?

- In 2010, ASR was identified in localized areas of Seabrook concrete structures
- ASR is a chemical reaction in concrete, which occurs over time in the presence of water, between the alkaline cement and reactive silica found in some aggregates.
- ASR forms a gel that expands causing micro-cracks that effect concrete material properties

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# NRC Inspections of ASR-impacted Concrete

## Inspection Summary

- NRC specialist inspections completed every six months; last performed in March 2018
- License renewal inspection is being conducted this week to follow-up on the open item related to ASR

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# ASR License Amendment Request (LAR)

- In August 2016, NextEra submitted an LAR to revise the current licensing basis - requested approval of a methodology to analyze seismic category I concrete structures
- Application currently under NRC staff review:
  - Audit process opened in January 2017
  - Staff site visit in June 2017
  - Requests for Additional Information (RAIs) Issued on August 4 and October 11, 2017
  - Responses to RAIs received on Oct. 3 and Dec. 11, 2017
  - Public Meetings held August 24 and November 17, 2017

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# ASR License Amendment Request (LAR)

- Application currently under NRC staff review (continued):
  - 2<sup>nd</sup> Staff site visit in March 2018
  - DRAFT RAIs sent on April 18, 2018
  - Staff DRAFT safety evaluation in August 2018
  - Final safety evaluation following fall Advisory Committee on Reactor Safeguards Public Meetings
  - Atomic Safety and Licensing Board Hearing to occur following final safety evaluation



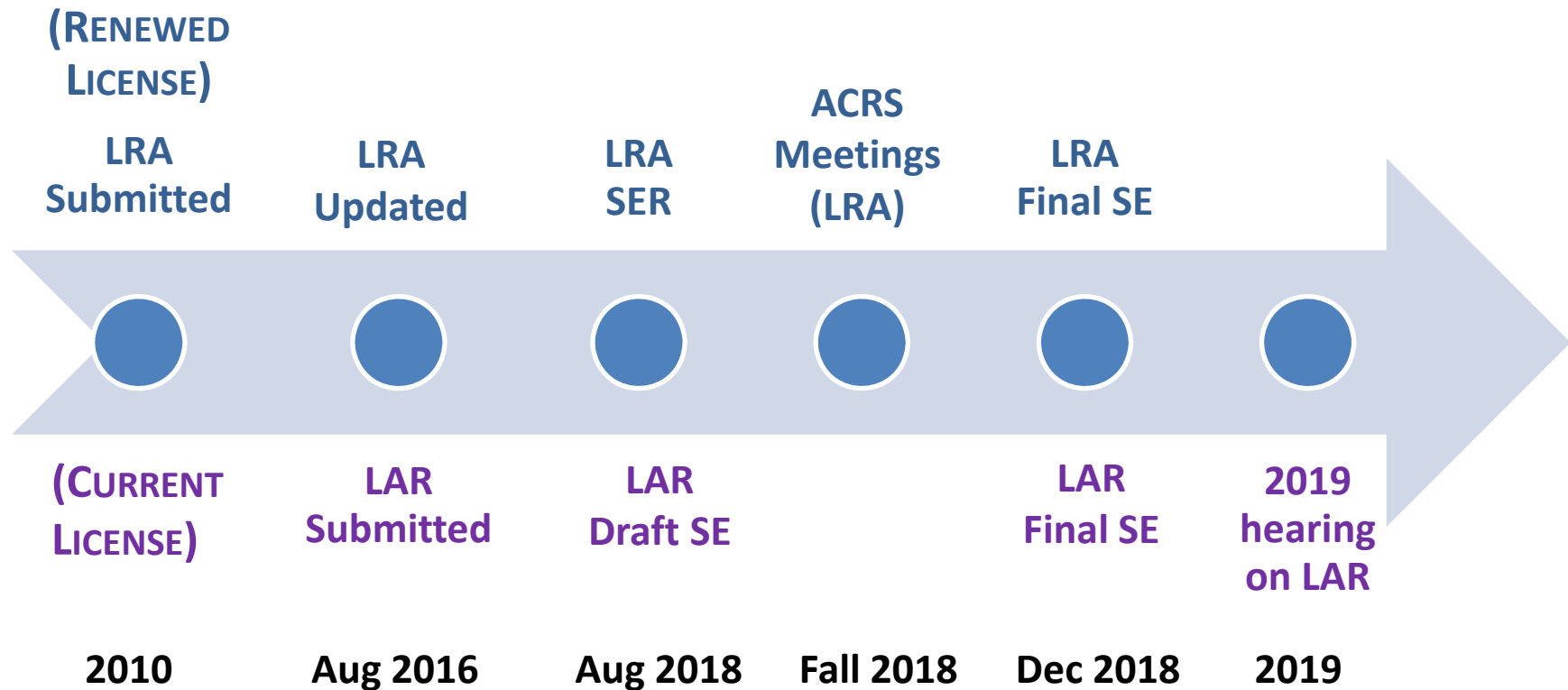
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# License Renewal Application (LRA)

## Review Status

- NextEra submitted a license renewal application (LRA) in June 2010
- Safety review remains ongoing; NRC decision on the application has not been finalized
- Reasonable assurance that aging effects of ASR on concrete can be adequately managed is needed
- Remaining schedule milestones:
  - IP 71002 Inspections – May 2018
  - Staff Safety Evaluation Report - August 2018
  - ACRS Subcommittee and Full Committee meetings

# Licensing Review Timeline



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# NRC Social Media Channels



- Web: <http://www.nrc.gov/>
- Flickr: <http://www.flickr.com/photos/nrcgov/>
- Twitter: <https://twitter.com/#!/nrcgov>
- YouTube: <http://www.youtube.com/user/NRCgov>
- RSS: <http://www.nrc.gov/public-involve/listserver.html#rss>

- ***Questions?***