
Seabrook Station, Unit No. 1

Alkali-Silica Reaction (ASR) License Amendment Request (LAR) and License Renewal Application (LRA)

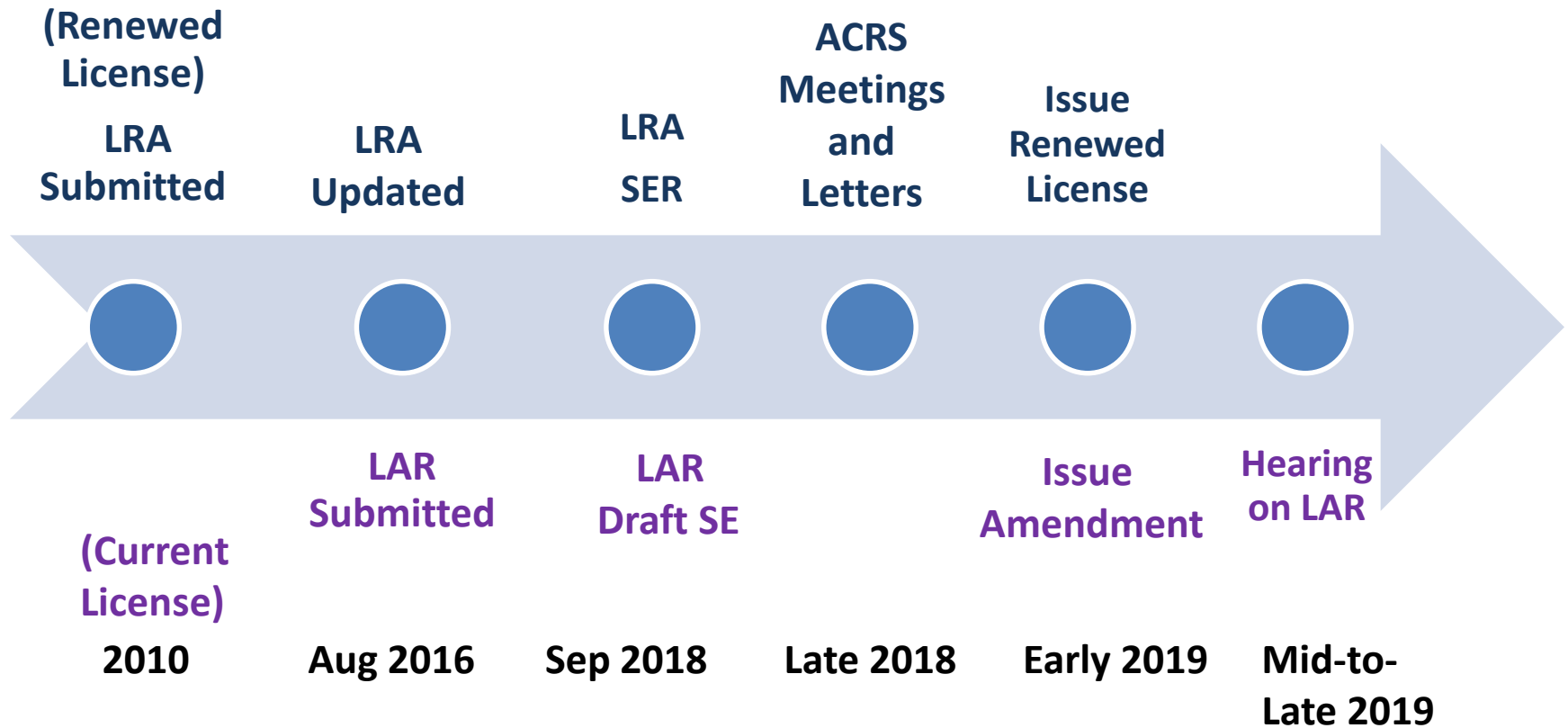
Public Meeting

February 13, 2019

Agenda

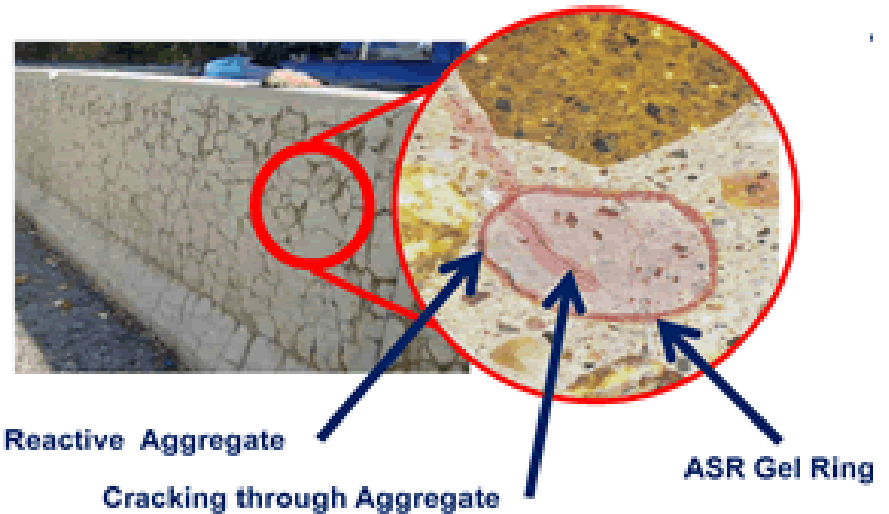
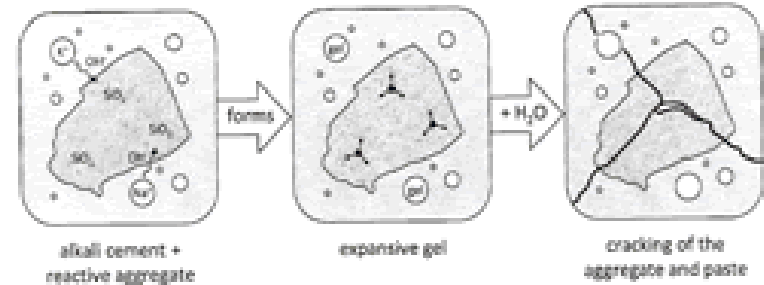
- Status of NRC Activities
- Alkali Silica Reaction
- Next Actions
- Discussion
- Closing Remarks
- Adjourn

Licensing Timeline



ASR

- ASR is a slow expansive chemical reaction in hardened concrete, which occurs in the presence of water, between the alkaline cement and reactive silica found in some aggregates.
- The expansion can cause various material impacts
- ASR is a very slow moving phenomenon



ASR at Seabrook

- Indications of ASR identified in 2010
 - NRC has continued to verify safe operation at Seabrook
 - ASR progresses slowly
- Original license did not consider ASR
- LAR and LRA would address ASR for the current license and renewed license terms

ASR License Amendment Request

- Detailed methodology for evaluating ASR-affected structures
- Based on large-scale testing program
- Monitoring ensures timely corrective action

License Renewal Application

- Aging management programs (AMPs) identify and manage future effects of aging
- LRA supplemented to include ASR Monitoring Programs as AMPs
- ASR AMPs adequately manage the effects of aging due to ASR

Issuance of the Licensing Actions

- Planned early 2019
- Meet the NRC's safety regulations
- NRC will adopt any required changes that result from the hearing process

Publicly Available Documents

- Available at <https://adams.nrc.gov/wba/>
- ASR license amendment request
 - NRC staff draft safety evaluation: [ML18226A205](#)
 - ACRS letter: [ML18348A951](#)
- License renewal application
 - NRC staff safety evaluation report: [ML18362A370](#)
 - ACRS letter: [ML18353A954](#)
- Information on Concrete Degradation
 - <https://www.nrc.gov/reactors/operating/ops-experience.html>
- Seabrook License Renewal
 - <https://www.nrc.gov/reactors/operating/licensing/renewal/applications.html>



Licensing Timeline

