



**UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
REGION I**  
2100 RENAISSANCE BOULEVARD, SUITE 100  
KING OF PRUSSIA, PENNSYLVANIA 19406-2713

February 19, 2014

MEMORANDUM TO: Those on Attached List

FROM: Eric J. Leeds, Director **/RA by Jennifer Uhle for/**  
Office of Nuclear Reactor Regulation (NRR)

William M. Dean **/RA/**  
Regional Administrator  
Region I

SUBJECT: SEABROOK ALKALI-SILICA REACTION ISSUE TECHNICAL  
TEAM CHARTER REVISION 1

The enclosed Revision 1 to the Seabrook Alkali-Silica Reaction (ASR) Issue Technical Team (SAITT) charter defines the purpose and objectives of the assigned staff. The SAITT charter is revised to remove completed objectives associated with NRC review of NextEra's prompt operability determinations and supporting engineering evaluations, NextEra's root cause evaluation and integrated corrective action plan to resolve the ASR issue at Seabrook, and NRC staff coordination and closure of CAL 1-2012-002. This revision also updates charter objectives to coordinate NRC staff review of NextEra's ongoing structural monitoring and testing programs and the licensee's assessment of new information and its operability determinations. Objectives related to NRC review of NextEra's aging management program for ASR and agency communication activities remain unchanged. Functional responsibilities have been revised to delete reference to an action tracking system because normal regional and agency tracking processes are being used to track actions as necessary. Finally the attachment to the SAITT charter has been streamlined and revised to reflect personnel changes since initial charter development.

Docket No. 50-443

Enclosure:  
SAITT Charter and Attachment

CONTACT: William Cook, Region I/DRS  
610-337-5074

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DISTRIBUTION:

Public  
RidsNrrPMSeabrook Resource  
RidsRgn1MailCenter Resource  
LPWB Reading File  
RidsNrrLAABaxter Resource  
RidsOgcRp Resource  
RidsNrrDorlLp1-2 Resource

RidsNrrAdes Resource  
RidsEdoMailCenter Resource  
RidsNrrOd Resource  
RidsNrrAdro Resource  
RidsAcrsAcnw\_MailCTR Resource  
RidsNrrDorl Resource  
S. Burnell, OPA  
E. Dacus, OCA

DOCUMENT NAME: G:\DRS\Seabrook Concrete\Proj Manag\Working Group Charter\Working Group Charter Revision 1D - 2014 Edition.docx  
ADAMS ACCESSION NUMBER: ML14014A378

<input checked="" type="checkbox"/> SUNSI Review		<input checked="" type="checkbox"/> Non-Sensitive <input type="checkbox"/> Sensitive		<input checked="" type="checkbox"/> Publicly Available <input type="checkbox"/> Non-Publicly Available	
OFFICE	RI/DRS	RI/DRS	RI/DRS	DORL/DD	DE/DD
NAME	WCook/WC	MGray/MG	RLorson/RL	MEvans/ME	PHiland/KB for
DATE	01/02/2014	01/02/2014	01/06/2014	01/22/2014	01/17/2014
OFFICE	DIRS/DD	DLR/DD	RI/RA	NRR/D	
NAME	HNieh/HN	JLubinski/JL	WDean/WD	ELeeds/JU for	
DATE	01/28/2014	01/28/2014	02/04/2014	02/18/2014	

ADDRESSEES:Region I (RI)

David Lew, Deputy Regional Administrator  
 Michael Scott, (Acting) Director, Division of Reactor Projects (DRP)  
 Ray Lorson, Director, Division of Reactor Safety (DRS)  
 James Trapp, Deputy Director, DRS  
 Glenn Dentel, Chief, Reactor Projects Branch No. 3, DRP  
 Paul Cataldo, Senior Resident Inspector, Seabrook, DRP  
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 William Cook, Senior Risk Analyst (SRA), DRS  
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 Nancy McNamara, State Liaison Office (SLO)  
 Doug Tiff, SLO

Office of Nuclear Reactor Regulation (NRR)

Daniel Dorman, Deputy Director for Engineering and Corporate Support  
 Timothy McGinty, Director, Division of Safety Systems (DSS)  
 Michele Evans, Director, Division of Operating Reactor Licensing (DORL)  
 Patrick Hiland, Director, Division of Engineering (DE)  
 John Lubinski, Director, Division of License Renewal (DLR)  
 Ho Nieh, Director, Division of Inspection and Regional Support, (DIRS)  
 Lawrence Kokajko, Director, Division of Policy and Rulemaking (DPR)  
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 Mirela Gavrilas, (Acting) Deputy Director, DPR  
 Anthony McMurtray, Chief, Mechanical & Civil Engineering Branch (EMCB), DE  
 Meena Khanna, Chief, Plant Licensing Branch No. 1-2 (LPL1-2), DORL  
 John Lamb, Seabrook Project Manager, LPL 1-2, DORL  
 Michael Marshall, Chief, Aging Management of Structures, Electrical and Systems Branch, DLR  
 Dennis Morey, Chief, Aging Management of Reactor Systems Branch, DLR  
 Chris Regan, Chief, Reactor Inspection Branch (IRIB), DIRS  
 Bill Cartwright, Engineer, IRIB, DIRS  
 Harold Chernoff, Chief Operating Experience Branch, DIRS  
 Anthony Mendiola, Chief, Licensing Processes Branch (PLPB), DPR  
 Holly Cruz, Project Manager, PLPB, DPR

**CHARTER FOR THE**  
**SEABROOK ALKALI-SILICA REACTION ISSUE TECHNICAL TEAM**

**Background:**

Alkali-silica reaction (ASR) adversely impacts the physical properties of hardened concrete. ASR is a slow chemical process in which the alkalis in the cement react, in the presence of water, with the susceptible silica contained in the concrete aggregate. The chemical reaction results in an alkali-silica gel that expands within the concrete conglomerate causing micro cracks. As the gel absorbs water, the micro cracks expand and cause a weakening of the concrete (affecting the compressive strength, tensile and shear strength, and elasticity modulus) and potentially the structural integrity of the reinforced concrete structures that house and support safety-related systems.

The NRC issued a Confirmatory Action Letter (CAL) Number 1-2012-002, dated May 16, 2012 (ADAMS Accession No. ML12125A172), which confirmed commitments by NextEra in regards to actions taken and planned to address the non-conforming ASR issue at Seabrook Station. The results of the NRC inspections to verify that NextEra had satisfactorily completed each CAL commitment are documented in NRC Inspection Reports 05000443/2012009, dated December 3, 2012 (ML12338A283), and 05000443/201210, dated August 9, 2013 (ML13221A172). The NRC closed the CAL in a letter to NextEra dated October 9, 2013 (ML13274A670).

NextEra initiated a large specimen testing program to determine the impact of ASR on concrete structures that is currently in progress at the University of Texas' Ferguson Structural Engineering Laboratory (FSEL). Additionally, a Structures Monitoring and Assessment Program is being conducted at Seabrook Station to track the progression of ASR in affected reinforced concrete structures. The testing program was developed, in part, to support resolution of the open ASR-affected structures' final operability determinations. The NRC Seabrook ASR Issue Technical Team (SAITT) was established to provide coordinated agency oversight of NextEra's activities to address this non-conforming condition.

**Purpose:**

To provide oversight and coordination of the NRC onsite inspections, in-office technical reviews, and other associated evaluation and assessment activities involving NextEra's actions to resolve the ASR issues at Seabrook Station.

**Objectives:**

- a. To review and assess the results of the onsite ASR monitoring of ASR-affected reinforced concrete structures.

- b. To monitor activities involving anchor, shear and lap splice test specimens at the FSEL and assess the results of remediation testing, if required.
- c. To ensure NextEra maintains compliance with its license as new information is gathered from the Structures Monitoring and Assessment Program or FSEL testing program.
- d. To ensure a coordinated review of any associated reports or licensing submittals made by NextEra regarding ASR-affected safety-related or important to safety structures.
- e. To ensure a coordinated review and assessment of the final operability determination and supporting engineering evaluation, including review of any associated corrective actions.
- f. To support agency review of the structures aging management program related to ASR.
- g. To support a coordinated review for all public and congressional inquiries related to ASR at Seabrook.

**Functional Responsibilities:**

- a. Provide updates to the Region I Administrator and NRR Office Director after key milestones are completed, and as requested.
- b. Convene team meetings, as necessary, to review licensee progress, assess key test results and structural monitoring program observations.
- c. Ensure documentation of significant SAITT findings, observations, and decisions in NRC Inspection Reports, as appropriate.
- d. Prepare for and conduct public outreach activities, as appropriate. Maintain the Seabrook Concrete ASR Degradation public webpage up-to-date:  
<http://www.nrc.gov/info-finder/reactor/seabrook/concrete-degradation.html>.
- e. Make recommendation to the Regional Administrator (RI) and Director (NRR) to dissolve the SAITT upon satisfactory completion of the above stated objectives.

**THIS CHARTER IS APPROVED FOR IMPLEMENTATION ON February 18, 2014**

                    /RA/  
William M. Dean  
Regional Administrator  
Region I

                    /RA by Jennife Uhle for/  
Eric J. Leeds  
Director  
Office of Nuclear Reactor Regulation

## ATTACHMENT

### SAITT Membership

Chairman: Mel Gray, Branch Chief, DRS, RI

Vice Chairman: William Cook, SRA, DRS, RI

Members: Anthony McMurtray, Branch Chief, DE, NRR  
Meena Khanna, Branch Chief, DORL, NRR  
Michael Marshall, Branch Chief, DLR, NRR  
Chris Regan, Branch Chief, DIRS, NRR  
Glenn Dentel, Chief, Projects Branch 3, DRP, RI

### Additional Guidance

A quorum for acceptance of recommendations or actions developed by lead offices or branches in primary support for the project will consist of the Chairman or Vice Chairman and all other members or their designated alternates from the applicable Division. Other participants may include staff from NRO, RES, and other offices, as necessary.

Region I Division of Reactor Safety has the responsibility for the team leadership, as assigned by the Regional Administrator. A meeting summary email will capture significant team activities, discussions, and accomplishments. Informational management briefings should be conducted, as needed, or upon request.

The SAITT shall communicate licensing and technical issues to external stakeholders via public outreach activities, the NRC external website, or through the use of direct communication plans for documents being issued and for significant inquiries made through the use of other established correspondence avenues (e.g., email, facsimile, telecon, etc).

When an office is in a support role, the SAITT will ensure coordination of activities in order to provide the timely completion of due dates for the lead office.

The SAITT will review the results of activities of the lead office so as to not impact the timely processing of the associated documentation by the lead office, including the review of any associated communication plans for that documentation.