



**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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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
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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	

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 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.

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.