

## SeabrookNPEM Resource

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**Sent:** Monday, November 15, 2010 1:30 PM  
**To:** Wentzel, Michael  
**Subject:** Seabrook: Summary of Site Audit Related to the Review of the License Renewal application for Seabrook Station, Unit 1  
**Attachments:** ML102950271.pdf

Seabrook: Summary of Site Audit Related to the Review of the License Renewal application for Seabrook Station, Unit 1

ADAMS Accession No. ML102950271

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UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D.C. 20555-0001

November 10, 2010

LICENSEE: NextEra Energy Seabrook, LLC  
FACILITY: Seabrook Station  
SUBJECT: SUMMARY OF SITE AUDIT RELATED TO THE REVIEW OF THE LICENSE RENEWAL APPLICATION FOR SEABROOK STATION, UNIT 1 (TAC NO. ME3959)

From October 5-7, 2010, a review team consisting of staff from the U.S. Nuclear Regulatory Commission (NRC or the staff) and contractors from Argonne National Laboratory (ANL) participated in a site audit at Seabrook Station related to the environmental review of the Seabrook Station license renewal application. The primary goal of the site visit was to review documentation, gather information to ensure that the environmental requirements of license renewal as codified in Title 10 of the *Code of Federal Regulations* Part 51 (10 CFR Part 51) were met, and to interface with officials in Federal, State, and local government agencies to obtain related information. Enclosure 1 is a list of representatives from NRC, ANL, New Hampshire (NH) State agencies, other Federal agencies, and NextEra Energy Seabrook, LLC (NextEra) who participated in the site audit.

The audit began on October 5, 2010, with a kickoff meeting to introduce participants and to discuss logistics of the audit. Following the kickoff meeting, the environmental review team participated in a general site tour of Seabrook Station with NextEra staff. The general site tour provided an ecological overview of the site and focused on areas relevant to the environmental review.

During the remainder of the site audit, the environmental review team examined data used by NextEra in preparation of the Environmental Report and met in smaller groups with NextEra representatives with corresponding environmental expertise. These groups participated in various activities, including tours of onsite National Pollutant Discharge Elimination System-permitted outfalls; circulating water systems; in-scope transmission line rights-of-way; radioactive waste processing and storage areas; meteorological towers and monitoring equipment; and Title V-permitted air emission points.

The environmental review team also met onsite with officials from the National Oceanic and Atmospheric Administration Fisheries Division, the NH Department of Environmental Services, the NH Division of Historical Resources, the NH Division of Public Health, the NH Fish and Game Department, and the NH Natural Heritage Bureau. Information gathered through participation of these agencies will assist the environmental review team in its evaluation.

In addition, the team reviewed NextEra's process for identifying new and significant information (information that would challenge the generic conclusions reached in the *Generic Environmental Impact Statement for License Renewal of Nuclear Plants*, NUREG-1437). NextEra cited no new and significant information, and the team's independent review during the course of the site audit did not identify any either.

At the conclusion of the site audit, the environmental review team summarized the status of the review with NextEra representatives. Most of the team's questions were answered through the conduct of the audit. Those that were not will be answered by NextEra, as it responds to the team's request for additional information (RAI) letter (ADAMS accession number ML102861217). Enclosure 2 is a table of documents requested by the team during the site audit and provided by NextEra to assist the team in its review. These documents will be made publically available in the NRC's Agencywide Documents Access and Management System (ADAMS) at <http://www.nrc.gov/reading-rm/adams.html>. Persons who do not have access to ADAMS or who encounter problems in accessing the documents located in ADAMS should contact the NRC's Public Document Room staff at 800-397-4209 (or 301-415-4737) or by e-mail at [pdr.resource@nrc.gov](mailto:pdr.resource@nrc.gov).

While the NRC review team did not identify any significant issues during its site audit or during the meetings with other participants, the team indicated that the environmental review was ongoing and that any additional information necessary to support the review would be formally requested.



Jeremy Susco, Project Manager  
Projects Branch 1  
Division of License Renewal  
Office of Nuclear Reactor Regulation

Docket No. 50-443

Enclosures:  
As stated

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**LIST OF PARTICIPANTS  
SEABROOK STATION  
LICENSE RENEWAL APPLICATION REVIEW  
ENVIRONMENTAL SITE AUDIT**

October 5-7, 2010

<b><u>NAME</u></b>	<b><u>ORGANIZATION</u></b>
Briana Balsam	U.S. Nuclear Regulatory Commission (NRC)
April BeBault	NRC
Paula Cooper	NRC
Kevin Folk	NRC
Andy Imboden	NRC
Stephen Klementowicz	NRC
Dennis Logan	NRC
Michelle Moser	NRC
Bill Rautzen	NRC
Jeffrey Rikhoff	NRC
Jeremy Susco	NRC
Allison Travers	NRC
Brooke Traynham	NRC
Young-Soo Chang	Argonne National Laboratory (ANL)
Ron Kolpa	ANL
Bill Metz	ANL
Dan O'Rourke	ANL
John Quinn	ANL
Sarah Burnum	NextEra Energy Seabrook, LLC (NextEra)
Ed Carle	NextEra
Tom Casey	NextEra
Rick Cliche	NextEra
Sarah Cloutman Gebo	NextEra
Mike Collins	NextEra
Paul Freeman	NextEra
Al Legendre	NextEra
Ed Metcalf	NextEra
Bill Meyer	NextEra
Mike O'Keefe	NextEra
Marty Peters	NextEra
David Robinson	NextEra
Peter Tutinas	NextEra
Paul Willoughby	NextEra
Herb Giorgio	NextEra Energy Duane Arnold, LLC
Steven Dort	FirstEnergy
Jenna Flynn	National Oceanic and Atmospheric Administration, Fisheries

Brian Valimont  
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Bruce Smith  
Melissa Coppola  
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Fred Polaski  
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Kurt Nelson  
William Temple  
Kathleen Yhip  
Kristi Hagood  
Philip Moore  
Karen Patterson

New England Archaeology  
New Hampshire Department of Environmental  
Services  
New Hampshire Division of Historical Resources  
New Hampshire Division of Public Health Services  
New Hampshire Fish and Game Department  
New Hampshire Natural Heritage Bureau  
Northeast Utilities  
Polaski Consulting, LLC  
Public Service of New Hampshire (PSNH)  
PSNH  
PSNH  
Southern California Edison  
TetraTech NUS  
TetraTech NUS  
TetraTech NUS

**References Requested for Submittal at the  
Seabrook Station Environmental Site Audit**  
October 5-7, 2010

<b>Meteorology and Air Quality</b>
Seabrook Station, Design Basis Document, Meteorological Monitoring System, DBD-MET-01, Revision 2, January 7, 2010.
FPL Company – New England Division, 345 kV Seabrook Transmission Substation SF6 Emissions Reduction Partnership for Electric Power Systems, Annual Reports for 2005-2009.
NHDES, Stage I/II Gasoline Vapor Recovery System, Certificate of Compliance, March 20, 2008.
NHDES, Title V Operating Permit, TV-OP-017, Issued June 5, 2006.
NHDES, Issuance of General State Permit: GSP-EG-225, Issued July 2, 2008.
Letter of Deficiency for the Title V air permit issued by New Hampshire Department of Environmental Services in 2010 and any subsequent related correspondence
<b>Aquatic Ecology</b>
ARCADIS et. al. (ARCADIS, Normandeau Associates Inc., Wayne C. Micheletti, Inc., and Harris Group, Inc.). 2008. Cooling Water Intake Structure information Document. Prepared for FPL Energy Seabrook, LLC. July 2008. (Note that Appendix F is privileged and confidential. If the NextEra feels it is appropriate, you can request that this appendix be non-public by filling out an affidavit under 10 CFR 2.390.)
Florida Power and Light (FPL). 2006. Seabrook Station NPDES Permit NH0020338 Renewal Application. September 2006. (Please include cover letter and Clean Water Act Section 316(a) and (b) certifications.)
NAI (Normandeau Associates, Inc.). 1988. Seabrook Environmental Studies, 1987. A Characterization of Baseline in the Hampton-Seabrook Area, 1975-1987. A preoperational study for Seabrook Station Technical Report XIX-II. Prepared for NH Yankee Division Public Service Company of New Hampshire. November 1988.
NAI (Normandeau Associates Inc.). 1991. Seabrook Station 1990 Environmental Studies in the Hampton – Seabrook Area: A Characterization of Environmental Conditions.
NAI (Normandeau Associates Inc.). 1994. Seabrook Station 1993 Environmental Studies in the Hampton – Seabrook Area: A Characterization of Environmental Conditions. Prepared for North Atlantic Energy Service Corporation.
NAI (Normandeau Associates Inc.). 1995. Seabrook Station 1994 Environmental Monitoring in the Hampton – Seabrook Area: A Characterization of Environmental Conditions. Prepared for North Atlantic Energy Service Corporation.
NAI (Normandeau Associates, Inc.). 1997. Seabrook Station 1996 Environmental Monitoring in the Hampton–Seabrook Area: A Characterization of Environmental Conditions.
NAI (Normandeau Associates Inc.). 2001. Seabrook Station Essential Fish Habitat Assessment. R-18900.009. Prepared for North Atlantic Energy Service Corporation.
NAI (Normandeau Associates, Inc.). 2008. Seabrook Station 2007 Environmental Monitoring in the Hampton–Seabrook Area: A Characterization of Environmental Conditions. Prepared for FPL Energy Seabrook Station.
NAI (Normandeau Associates, Inc.). 2010. Seabrook Station 2009 Environmental Monitoring in the Hampton–Seabrook Area: A Characterization of Environmental Conditions. Prepared for FPL Energy Seabrook Station.
NAI (Normandeau Associates, Inc.). 2010. Seabrook Station 2010 Environmental Monitoring Program Mid-Year Report.
NAI and ARCADIS. (Normandeau Associates, Inc. and ARCADIS). 2008. Seabrook Nuclear Power Station EPA 316(b) Phase II Rule Project, Revised Proposal for Information Collection.

Section 7.0. Prepared for FPL Energy Seabrook Station. June 2008.
NAI (Normandeau Associates, Inc.) and BBL (Blasland Bouck and Lee). 2006. Seabrook Nuclear Power Station EPA 316(b) Phase II Rule Project Proposal for Information Collection. Prepared for FPL Energy Seabrook Station. Bedford, New Hampshire, Normandeau Associates. May 2006. (Please also include associated letter to EPA dated May 4, 2006.)
NMFS (National Marine Fisheries Service). 2004. Letter From L. Allen, Office of Protected Resources to A. Legendre, FPL Energy Seabrook Station Regarding Withdrawal of Application for Incidental Take Authorization. May 7, 2004.
Padmanabhan M and Hecker GE. 1991. Comparative evaluation of hydraulic model and field thermal plume data Seabrook Nuclear Station. Alden Research Laboratory, Inc. Sponsored by New Hampshire Yankee Division of Public Service Company of New Hampshire.
Seabrook Station. 2010. Bivalve Larvae Entrainment Sampling. ZN1120.02, Rev.00, Chg. 03. Regulatory Compliance Procedure.
Seabrook Station. 2010. Ichthyoplankton Entrainment Sampling. ZN1120.01, Rev.01, Chg. 03. Regulatory Compliance Procedure.
<b>Hydrology</b>
Seabrook, 2010, Environmental Reclamation of 32 Acres behind General Office Building, Rev. 1, March 23
Radiation Safety & Control Services, Inc. (RSCS), 2009a, Site Conceptual Ground Water Model for Seabrook Station, Rev. 01, TSD #09-019, June 9
Radiation Safety & Control Services, Inc. (RSCS), 2009b, Tritium Distribution and Ground Water Flow at Seabrook Station, Rev. 00, TSD #09-039, August 31
NextEra Energy Seabrook, LLC, 2009, Stormwater Pollution Prevention Plan for NextEra Energy Seabrook, Rev. 41, July 1
NHDES, 2010, NPDES Compliance Evaluation Inspection for NPDES Permit No. NH0020338, letter from P. Heitzler, Wastewater Engineering Bureau, to A. Legendre, NextEra Energy Seabrook LLC, July 20
NHDES, 2010, NPDES Compliance Evaluation Inspection for NPDES Permit No. NH0020338, letter from P. Heitzler, Wastewater Engineering Bureau, to A. Legendre, NextEra Energy Seabrook LLC, June 15
NextEra Energy Seabrook, 2010, Response to Letter of Deficiency – NPDES Compliance Evaluation Inspection, letter from M. O’Keefe, Licensing Manager, to State of New Hampshire, Department of Environmental Services, July 15
Well completion data and elevation data for wells TW-1, TW-2, and TW-3 and the recent SW-series wells (circa 2009 and 2010)
Current illustrations of tritium data (plume) and groundwater elevation contours in surficial and bedrock aquifers, September 2010 (prepared by RSCS)
USEPA letter regarding timely and complete NPDES permit renewal application (circa 2006)
Discharge Monitoring Reports (DMRs) for the last 12 months, as submitted to the USEPA per NPDES Permit #NH0101303
<b>Archaeological and Cultural Resources</b>
Seabrook Station Program Manual, Environmental Compliance Manual, Rev. 41 (NAEC) excluding the appendices
Draft Cultural Resources Protection Plan (and final when available)
Cultural Resources Management Plan, Seabrook Nuclear Power Plant, Seabrook and Hampton Falls, New Hampshire, May 2010 by Brian Valimont, New England Archaeology Co., LLC
<b>Socioeconomics</b>
Visitor center attendance for the last three years
Emergency preparedness fees for the last three years



Mill rates and education takes for the last three years
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Tax appraisal value of Seabrook Station for the last three years
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*/RA/*

Jeremy Susco, Project Manager  
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Division of License Renewal  
Office of Nuclear Reactor Regulation

Docket No. 50-443

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Memorandum from J. Susco to Seabrook Station dated November 10, 2010

SUBJECT: SUMMARY OF SITE AUDIT RELATED TO THE REVIEW OF THE LICENSE  
RENEWAL APPLICATION FOR SEABROOK STATION, UNIT 1  
(TAC NO. ME3959)

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