

## SeabrookNPEM Resource

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**From:** Green, Kimberly  
**Sent:** Thursday, September 16, 2010 10:32 AM  
**To:** Cliche, Richard  
**Cc:** Plasse, Richard; Rogers, Billy; Auluck, Rajender; Wrona, David; lhoward@swri.org; Brittner, Donald; Min, Seung; Dozier, Jerry; Smith, Edward; Armstrong, Garry  
**Subject:** Audit Plan for the Scoping and Screening Methodology Audit to be Conducted at Seabrook  
**Attachments:** Seabrook SS Methodology Audit Assignments.doc; Seabrook SS Methodology Audit Site Documentation List (3).doc

Rick,

Below is the audit plan for the upcoming scoping and screening methodology audit. The team assignments and documentation needs list are attached to this email. If you have any questions regarding the audit plan or attachments, please do not hesitate to call me.

Kim Green  
Project Manager  
301-415-1627

**Audit Plan  
Scoping and Screening Methodology Audit  
Seabrook Station, Unit 1  
September 20 – 23, 2010**

**a. Background**

By letter dated June 1, 2010, NextEra Energy Seabrook, LLC, (NextEra) submitted an application pursuant to Title 10 of the *Code of Federal Regulations*, Part 54 (10 CFR Part 54) for renewal of Operating License No. NPF-86 for Seabrook Station, Unit 1. NextEra requested renewal of the operating license for an additional 20 years beyond the current 40-year license term, which expires at midnight on October 17, 2026. The staff from the Division of License Renewal will lead an on-site regulatory audit to gain a better understanding of the documentation and methodologies used by the applicant to perform scoping and screening of systems, structures and components (SSCs).

**b. Regulatory Audit Bases**

As required by 10 CFR 54.21(a)(2), the applicant, in its integrated plant assessment (IPA), is to describe and justify methods used to identify SSCs subject to an aging management review (AMR).

**c. Regulatory Audit Scope or Methodology**

NUREG-1800, Revision 1, "Standard Review Plan for Review of License Renewal Applications for Nuclear Power Plants" (SRP-LR), Section 2.1, "Scoping and Screening Methodology," contains guidance for staff in conducting its review of the applicant's methodology.

During the scoping and screening methodology audit, the staff will focus on those methods used by the applicant to conduct scoping of mechanical systems, electrical and instrumentation and control systems, and structures consistent with 10 CFR 54.4(a), and screening of structures and components consistent with 10 CFR 54.21(a)(1).

In addition, the staff will sample the scoping and screening results for the following mechanical systems:

- Diesel generator
- Plant floor drain system
- Roof drain system
- Service water system
- Spent fuel pool system
- Feedwater system

**d. Information and Other Material Necessary for the Regulatory Audit**

A list of the audit documentation needed by the team during the conduct of the audit is attached.

**e. Team Assignments**

A list containing the proposed assignments is attached.

**f. Logistics**

The audit will begin on Monday, September 20, 2010 and conclude on Thursday, September 23, 2010. An entrance meeting is scheduled for September 20, at 9:30 a.m., and a final briefing is scheduled for 4:30 p.m. on September 23.

**g. Deliverables**

The deliverable for this audit will be an audit trip report which is scheduled to be issued within 90 days following the audit.

**h. References**

- Title 10 of the *Code of Federal Regulations*, Part 54, "Requirements for Renewal of Operating Licenses for Nuclear Power Plants"
- NUREG-1800, Rev. 1, "Standard Review Plan for Review of License Renewal Applications for Nuclear Power Plants," September 2005.
- NEI 95-10, Rev. 6, "Industry Guideline for Implementing the Requirements of 10 CFR Part 54 - The License Renewal Rule," June 2005.

**Hearing Identifier:** Seabrook\_License\_Renewal\_NonPublic  
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**From:** Green, Kimberly

**Created By:** Kimberly.Green@nrc.gov

**Recipients:**

"Plasse, Richard" <Richard.Plasse@nrc.gov>  
Tracking Status: None  
"Rogers, Billy" <Billy.Rogers@nrc.gov>  
Tracking Status: None  
"Auluck, Rajender" <Rajender.Auluck@nrc.gov>  
Tracking Status: None  
"Wrona, David" <David.Wrona@nrc.gov>  
Tracking Status: None  
"lhoward@swri.org" <lhoward@swri.org>  
Tracking Status: None  
"Brittner, Donald" <Donald.Brittner@nrc.gov>  
Tracking Status: None  
"Min, Seung" <Seung.Min@nrc.gov>  
Tracking Status: None  
"Dozier, Jerry" <Jerry.Dozier@nrc.gov>  
Tracking Status: None  
"Smith, Edward" <Edward.Smith@nrc.gov>  
Tracking Status: None  
"Armstrong, Garry" <Garry.Armstrong@nrc.gov>  
Tracking Status: None  
"Cliche, Richard" <Richard.Cliche@fpl.com>  
Tracking Status: None

**Post Office:**

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MESSAGE	3622	9/16/2010 10:32:00 AM
Seabrook SS Methodology Audit Assignments.doc	46074	
Seabrook SS Methodology Audit Site Documentation List (3).doc		38394

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**Scoping and Screening Methodology Audit**  
**Seabrook Station, Unit 1**  
**September 20 – 23, 2010 - Team Assignments**

<b>Bill</b>	<b>Robert</b>	<b>Lane</b>	<b>Don/Seung</b>
<p>Scoping 10 CFR 54.4(a)(1) (info source, def. of SR, DBEs, S&amp;S reports)</p> <p><u>SER</u>: 2.1.4.1 (and subs), <u>Audit Report</u>: I, II, III, IV, IX, and X</p>	<p>Scoping 10 CFR 54.4(a)(3)</p> <p><u>SER</u>: 2.1.4.3 (and subs) <u>Audit Report</u>: N/A</p>	<p>AMP QA Elements 7, 8, &amp; 9 - LRA App. A and App. B</p> <p><u>SER</u>: 3.0.4 and subs <u>Audit Report</u>: V</p>	<p>Sample Scoping Review – Random Selection from Equipment Data Base (Don)</p> <p><u>SER/Audit Report</u>: Discussion on staff activities, results, analysis and conclusion.</p>
<p>Scoping 10 CFR 54.4(a)(2)</p> <p><u>SER</u>: 2.1.4.2 (and subs) <u>Audit Report</u>: N/A</p>	<p>Structural Scoping Structural Screening</p> <p><u>SER</u>: 2.1.4.6 (and subs) <u>SER</u>: 2.1.5.3 (and subs) <u>Audit Report</u>: N/A</p>	<p>Electrical Scoping Electrical Screening</p> <p><u>SER</u>: 2.1.4.7 (and subs) <u>SER</u>: 2.1.5.4 (and subs) <u>Audit Report</u>: N/A</p>	<p>Material/Environment Review - Organization and preliminary review (performed during the AMP audit) (Don)</p> <p><u>SER</u>: N/A <u>Audit Report</u>: N/A</p>
<p>Mechanical Scoping Mechanical Screening</p> <p><u>SER</u> 2.1.4.5 (and subs) <u>SER</u> 2.1.5.2 (and subs) <u>Audit Report</u>: N/A</p>	<p>Training of license renewal personnel</p> <p><u>SER</u>: 2.1.3.3 (and subs) <u>Audit Report</u>: XII</p>	<p>Quality Practices used during LRA development</p> <p><u>SER</u>: 2.1.3.2 and subs <u>Audit Report</u>: XI</p>	<p>NRC Staff OE Review - Organization and preliminary review of operating experience based on the keyword search (Don and Lee)</p> <p><u>SER</u>: N/A <u>Audit Report</u>: N/A</p>
<p><u>Additional SER Sections</u>: 2.1, 2.1.2, 2.1.3.1 (and subs), 2.1.3.4 (and subs), 2.1.4, 2.1.4.4 (and subs), 2.1.4.8, 2.1.5.1 (and subs), 2.1.6, 2.1.7.</p>		<p>Lists: (1) implementing documents (2) technical references (3) persons contacted</p> <p><u>SER</u>: N/A <u>Audit Report</u>: IX and XI</p>	

## **Seabrook Station License Renewal Scoping and Screening Methodology Audit Documentation List**

- Engineering reports and procedures which contain requirements or guidelines for the implementation of scoping and screening methodology.
- 10 CFR 54.4(a)(1) plant evaluations and implementing procedures.
- 10 CFR 54.4(a)(2) plant evaluations and implementing procedures.
- 10 CFR 54.4(a)(3) plant evaluations, implementing procedures and any specific analyses performed.
- Description of the design basis events included in the FSAR, and all other additional events (e.g. high energy line break, fire, high wind, earthquakes, flooding, tornadoes), which were evaluated during the scoping process.
- License renewal drawings.
- System design basis documents and system and component level scoping and screening reports for the following systems and structures:
  1. Diesel generators
  2. Plant floor drain system
  3. Roof drains system
  4. Service water system
  5. Spent fuel pool cooling system
  6. Feedwater system
  7. Auxiliary building
  8. Turbine Building
- Documentation of quality assurance activities associated with license renewal application development.
- Documentation of training activities associated with license renewal application development.
- Assisted access to the plant equipment database and administrative controls procedure.
- Assisted access to the Seabrook Corrective Action and Operating Experience Programs database.