

April 15, 2010

Mr. Thomas Joyce
President and Chief Nuclear Officer
PSEG Nuclear LLC
P.O. Box 236
Hancocks Bridge, NJ 08038

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION REGARDING SCOPING AND
SCREENING RESULTS FOR THE HOPE CREEK GENERATING STATION
(TAC NO ME1832)

Dear Mr. Joyce:

By letter dated August 18, 2009, as supplemented by letter dated January 23, 2009, Public Service Enterprise Group Nuclear, LLC (PSEG), submitted an application pursuant to Title 10 *Code of Federal Regulation* Part 54 (10 CFR Part 54) for renewal of Operating License NPF-57 for the Hope Creek Generating Station (HCGS). The staff of the U.S. Nuclear Regulatory Commission (NRC or the staff) is reviewing this application in accordance with the guidance in NUREG-1800, "Standard Review Plan for Review of License Renewal Applications for Nuclear Power Plants." During its review, the staff has identified areas where additional information is needed to complete the review. The staff's requests for additional information are included in the Enclosure. Further requests for additional information may be issued in the future.

Items in the enclosure were discussed with John Hufnagel and other members of your staff during a telephone call on March 29, 2010, and a mutually agreeable date for the response is within 30 days from the date of this letter. If you have any questions, please contact me by telephone at 301-415-3191 or by e-mail at donnie.ashley@nrc.gov.

Sincerely,

/RA by Bennett Brady for/

Donnie J. Ashley, Senior Project Manager
Projects Branch 1
Division of License Renewal
Office of Nuclear Reactor Regulation

Docket No. 50-354

Enclosure:
As stated

cc w/encl: See next page

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Donnie J. Ashley, Senior Project Manager
Projects Branch 1
Division of License Renewal
Office of Nuclear Reactor Regulation

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Letter to PSEG Nuclear from D. Ashley, dated April 15, 2010

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SUBJECT: REQUEST FOR ADDITIONAL INFORMATION REGARDING SCOPING AND
SCREENING RESULTS FOR THE HOPE CREEK GENERATING STATION
(TAC NO ME1832)

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Hope Creek Generating Station

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Hope Creek Generating Station - 2 -

cc:

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Salem, NJ 08079

**REQUEST FOR ADDITIONAL INFORMATION
BALANCE OF PLANT SYSTEMS BRANCH
DIVISION OF SAFETY SYSTEMS FOR THE
HOPE CREEK NUCLEAR GENERATING STATION LRA
(TAC NO. ME1832)**

2.3 Scoping and Screening Results

RAI 2.3-01

Background:

License renewal rule 10 CFR 54.21(a) requires applicants to list all component types subject to an AMR. The staff confirms inclusion of all component types subject to an AMR by reviewing components within the license renewal boundary.

Issue:

For the drawing locations identified in the table below, the piping continuations could not be found. In order to assure that all components within the scope of license renewal have been identified, the staff must be able to review the full extent of the license renewal boundary.

License Renewal System	Drawing Number and Location	Continuation Issue
Chilled Water System	LR-M-87-1(SH5) at C-4, C-6, and D-5	Section of (a)(2) piping is continued to drawing LR-M-61-1(SH1). The continuation could not be located.
	LR-M-87-1(SH2) at E-6	Section of (a)(2) piping is continued from drawing LR-M-43-1(SH1). The continuation could not be located.
Closed Cycle Cooling Water	LR-M-13-1(SH1) at D-3 and D-4	Section of 1" (a)(1) piping ends without a continuation note.
Standby Diesel Generators and Auxiliary Systems	LR-M-30-1(SH4) at C-4	Section of (a)(1) piping continues to "to control air supply transmitters" without a drawing location identified.

Request:

Provide additional information to locate the license renewal boundary. If a section of pipe does not continue to a specific drawing number and location, then provide additional information describing the extent of the scoping boundary and verifying that there are no additional components between the continuation and the termination of the scoping boundary in that line. If the scoping classification of a section of piping changes over a continuation, provide additional information to clarify the change in scoping classification.

ENCLOSURE

2.3.3.2 Closed Cycle Cooling Water System

The following RAI was generated as part of the scoping and screening review for the Closed Cycle Cooling Water System for the Hope Creek Nuclear Generating Station LRA.

RAI 2.3.3.2-01

Background:

LRA Section 2.1.5.2, Nonsafety-Related Affecting Safety-Related – 10 CFR 54.4(a)(2), states in part "...For a nonsafety-related piping system that is connected and provides structural support to a safety-related piping system, the nonsafety-related piping and supports should be included within the scope of license renewal up to and including the first anchor point past the safety-nonsafety interface."

Issue:

Drawing LR-M-13-1 (SH1), locations D-3 and D-5, show 10 CFR 54(a)(1) lines 4"-HBB-024 and 4"-HBB-023 connected to 10 CFR 54(a)(2) lines 6"-HBD-003 and 4"-HBD-018. The anchors on the 6"-HBD-003 and 4"-HBD-018 lines could not be located.

Request:

Provide additional information to locate the anchors for the 6"-HBD-003 and 4"-HBD-018 lines between the end of the (a)(2) scoping boundary and the safety-nonsafety interface.

2.3.3.5 Control Area Chilled Water System

The following RAI was generated as part of the scoping and screening review for the Control Area Chilled Water System for the Hope Creek Nuclear Generating Station LRA.

RAI 2.3.3.5-01

Background:

LRA Section 2.1.5.1 states, "Systems and structures that are identified as safety-related in the UFSAR or in design basis documents have been classified as satisfying criteria of 10 CFR 54.4(a)(1) and have been included within the scope of license renewal. Safety-related components in the SAP database were also reviewed and the system or structure associated with the safety-related component was included in scope under the 10 CFR 54.4(a)(1) criterion."

Issue:

License renewal drawing LR-M-90-1 (SH3), locations C-5 and H-5, shows a portion of piping in scope for 10 CFR 54.4(a)(1) up to valves V9990 and V9982. The drawing indicates that downstream of the valves the piping is within scope for 10 CFR 54.4(a)(2) but is still Q-listed

and seismic Category 1. This appears to be safety-related piping in scope for (a)(2), which would conflict with the scoping procedure described in the application.

Request:

Provide additional information to clarify the scoping classification on the above drawing.

2.3.3.14 Fuel Pool Cooling and Cleanup System

The following RAIs were generated as part of the scoping and screening review for the Fuel Pool Cooling and Cleanup System for the Hope Creek Nuclear Generating Station LRA.

RAI 2.3.3.14-01

Background:

LRA Section 2.3.3.14, Fuel Pool Cooling and Cleanup System, states that components are within the scope of license renewal for 10 CFR 54.4(a)(1), 10 CFR 54.4(a)(2) and 10 CFR 54.4(a)(3) and have intended functions of providing mechanical closure, direct flow, pressure boundary, leakage boundary, spray, and throttle.

Issue:

Drawing LR-M-53-1 (SH1), locations B-7 and B-8, show starter strainers (TS 182 and TS 181) in 10 CFR 54.4(a)(1) lines 8"-HBC-042 and 8"-HBC-047, respectively, that are not included as a component type in LRA Table 2.3.3-14.

Request:

Provide additional information to explain why these within scope strainers are not included as a component type with their intended function in LRA Table 2.3.3-14.

RAI 2.3.3.14-02

Background:

LRA Section 2.1.5.2, Nonsafety-Related Affecting Safety-Related – 10 CFR 54.4(a)(2), states in part "...For a nonsafety-related piping system that is connected and provides structural support to a safety-related piping system, the nonsafety-related piping and supports should be included within the scope of license renewal up to and including the first anchor point past the safety-nonsafety interface."

Issue:

LR-M-53-1 (SH1), at the locations listed below, show 10 CFR 54.4(a)(2) pipelines that transfer clean radwaste (CRW) to equipment drain sumps connected to 10 CFR 54.4(a)(1) pipelines:

- Location A-3, pipeline 4"-HBD-036

- Location A-5, pipeline 1"-HBD-144
- Location A-7, pipeline 1"-HBD-055
- Location A-8, pipeline 1"-HBD-046
- Location B-4, pipeline 1"-HBD-143
- Location B-5, pipeline from PSV4674B
- Location B-7, pipeline from V037
- Location B-8, pipeline 1"-HBD-044
- Location C-5, pipeline 1"-HBD-070
- Location D-2, pipeline 1"-HBD-025
- Location E-5, pipeline 2"-HBD-032
- Location E-8, pipeline 4"-HBD-083
- Location B-2, pipeline 10"-HCD-073 to and from the Condensate Storage Tank.

Anchor points on the above lines could not be located.

Request:

Provide additional information to locate the anchors for the pipelines listed above between the end of the (a)(2) scoping boundary and the safety-nonsafety interfaces.

2.3.3.18 Makeup Demineralizer System

The following RAIs were generated as part of the scoping and screening review for the Makeup Demineralizer System for the Hope Creek Nuclear Generating Station LRA.

RAI 2.3.3.18-01

Background:

LRA Section 2.1.5.2, Nonsafety-Related Affecting Safety-Related – 10 CFR 54.4(a)(2), states in part "...For a nonsafety-related piping system that is connected and provides structural support to a safety-related piping system, the nonsafety-related piping and supports should be included within the scope of license renewal up to and including the first anchor point past the safety-nonsafety interface."

Issue:

Drawing LR-M-11-1 (SH1), locations H-5 and E-5, show 10 CFR 54(a)(1) lines 2"-HCC-111 and 2"-HCC-112 continued to 10 CFR 54 (a)(2) lines AN-2"-HCD-001.

The anchor for the two AN-2"-HCD-001 lines could not be located.

Request:

Provide additional information to locate the anchor for the two AN-2"-HCD-001 lines between the end of the (a)(2) scoping boundary and the safety-nonsafety interface.

RAI 2.3.3.18-02

Background:

LRA Section 2.1.5.2, Nonsafety-Related Affecting Safety-Related – 10 CFR 54.4(a)(2), states in part "...For a nonsafety-related piping system that is connected and provides structural support to a safety-related piping system, the nonsafety-related piping and supports should be included within the scope of license renewal up to and including the first anchor point past the safety-nonsafety interface."

Issue:

LR-M-90-1 (SH3), location D-6 and E-6, shows 10 CFR 54(a)(1) lines 18"-HCC-187, 18"-HCC-188 and 18"-HCC-189 continued to 10 CFR 54(a)(2) lines 2"-HCD-022, 2"-HBD-133 and 2"-HBD-132.

Drawing LR-M-90-1 (SH2), location D-6, shows 10 CFR 54(a)(1) Head Tank BT 410 connected to 10 CFR 54(a)(2) line 2"-HCD-024.

The anchor for lines 2"-HCD-022, 2"-HBD-133, 2"-HBD-132 and 2"-HCD-024 could not be located.

Request:

Provide additional information to locate the anchors for lines 2"-HCD-022, 2"-HBD-133, 2"-HBD-132 and 2"-HCD-024 between the end of the (a)(2) scoping boundary and the safety-nonsafety interface.

RAI 2.3.3.18-03

Background:

LRA Section 2.1.5.2, Nonsafety-Related Affecting Safety-Related – 10 CFR 54.4(a)(2), states in part "...For a nonsafety-related piping system that is connected and provides structural support to a safety-related piping system, the nonsafety-related piping and supports should be included within the scope of license renewal up to and including the first anchor point past the safety-nonsafety interface."

Issue:

Drawing LR-30-1 (SH2), locations G-2, G-3, G-5 and G-7, show 10 CFR 54(a)(1) lines 1"-HBC-098, 1"-HBC-096, 1"-HBC-097 and 1"-HBC-095 continued to 10 CFR 54(a)(2) lines 1"-HCD-232, 1"-HCD-230, 1"-HCD-231 and 1"-HCD-229.

The anchor points for lines 1"-HCD-232, 1"-HCD-230, 1"-HCD-231 and 1"-HCD-229 could not be located.

Request:

Provide additional information to locate the anchors for lines 1"-HCD-232, 1"-HCD-230, 1"-HCD-231 and 1"-HCD-229 between the end of the (a)(2) scoping boundary and the safety-nonsafety interface.

2.3.3.21 Process and Post-Accident Sampling Systems

The following RAI was generated as part of the scoping and screening review for the Process and Post-Accident Sampling Systems for the Hope Creek Nuclear Generating Station LRA.

RAI 2.3.3.21-01

Background:

LRA Section 2.1.5.2, Nonsafety-Related Affecting Safety-Related – 10 CFR 54.4(a)(2), states in part "...For a nonsafety-related piping system that is connected and provides structural support to a safety-related piping system, the nonsafety-related piping and supports should be included within the scope of license renewal up to and including the first anchor point past the safety-nonsafety interface."

Issue:

Drawing LR-M-38-0 (SH1), location B-7, shows line 1"-DBB-006 within scope of license renewal for 10 CFR 54.4(a)(1) attached to tubing that is not in scope. The anchor for line 1"-DBB-006 could not be located.

Request:

Provide additional information to clarify the scoping classification of this line. Provide additional information to locate the anchor for the line 1"-DBB-006 after the safety-nonsafety interface.

2.3.3.22 Radwaste System

The following RAIs were generated as part of the scoping and screening review for the Radwaste System for the Hope Creek Nuclear Generating Station LRA.

RAI 2.3.3.22-01

Background:

LRA Section 2.1.5.2, Nonsafety-Related Affecting Safety-Related – 10 CFR 54.4(a)(2), states in part "...For a nonsafety-related piping system that is connected and provides structural support to a safety-related piping system, the nonsafety-related piping and supports should be included within the scope of license renewal up to and including the first anchor point past the safety-nonsafety interface."

Issue:

License renewal drawing LR-M-61-1 (SH1), locations G-6 and G-7, show a 3" 10 CFR 54.4 (a)(1) line (3"-HBB-014) connected to 10 CFR 54.4 (a)(2) lines (3"-HBD+-013 and 3"-HBD+-017).

The seismic anchor or anchored component for the 10 CFR 54.4 (a)(2) lines (3"-HBD+-013 and 3"-HBD+-017) could not be located.

Request:

Provide additional information to locate the seismic anchors or anchored components for the 3"-HBD+-013 and 3"-HBD+-017 lines between the end of the (a)(2) scoping boundary and the safety-nonsafety interface.

RAI 2.3.3.22-02

Background:

LRA Section 2.1.5.2, Nonsafety-Related Affecting Safety-Related – 10 CFR 54.4(a)(2), states in part "...For a nonsafety-related piping system that is connected and provides structural support to a safety-related piping system, the nonsafety-related piping and supports should be included within the scope of license renewal up to and including the first anchor point past the safety-nonsafety interface."

Issue:

License renewal drawing LR-M-61-1 (SH 2), locations G-6 and G-7, show a 3" 10 CFR 54.4(a)(1) line (3"-HBB-023) connected to a 10 CFR 54.4 (a)(2) lines (3"-HBD+-022 and 3"-HBD+-019).

The seismic anchor or anchored component for the 10 CFR 54.4 (a)(2) lines (3"-HBD+-022 and 3"-HBD+-019) could not be located.

Request:

Provide additional information to locate the seismic anchors or anchored components for the 3"-HBD+-022 and 3"-HBD+-019 lines between the end of the (a)(2) scoping boundary and the safety-nonsafety interface.

2.3.3.31 Torus Water Cleanup System

The following RAI was generated as part of the scoping and screening review for the Torus Water Cleanup System for the Hope Creek Nuclear Generating Station LRA.

RAI 2.3.3.31-01

Background:

LRA Section 2.1.5.2, Nonsafety-Related Affecting Safety-Related – 10 CFR 54.4(a)(2), states in part "...For a nonsafety-related piping system that is connected and provides structural support to a safety-related piping system, the nonsafety-related piping and supports should be included within the scope of license renewal up to and including the first anchor point past the safety-nonsafety interface."

Issue:

Anchors for nonsafety-related affecting safety-related piping at the following locations could not be located.

- LR-M-53-1 SH 2, location D-5, 6 inch line (EE-6"-HCD-009)
- LR-M-53-1 SH 1, locations C-3 and C-4, 8 inch lines (8"-HBD-002 and 8"-HCD-001)

Request:

Provide additional information to locate the anchors for the EE-6"-HCD-009, 8"-HBD-002 and 8"-HCD-001 lines between the end of the (a)(2) scoping boundary and the safety-nonsafety interface.

2.3.4.1 Condensate Storage and Transfer System

The following RAI was generated as part of the scoping and screening review for the Condensate Storage and Transfer System for the Hope Creek Nuclear Generating Station LRA.

RAI 2.3.4.1-01

Background:

LRA Section 2.1.5.2, Nonsafety-Related Affecting Safety-Related – 10 CFR 54.4(a)(2), states in part "...For a nonsafety-related piping system that is connected and provides structural support to a safety-related piping system, the nonsafety-related piping and supports should be included within the scope of license renewal up to and including the first anchor point past the safety-nonsafety interface."

Issue:

Drawing LR-M-51-1 (SH1), location H-6, shows 10 CFR 54.(a)(2) line AP-4"-HCD-022 connected to 10 CFR 54.(a)(1) line AP-4"GBB-030.

The anchors for AP-4"-HCD-022 could not be located.

Request:

Provide additional information to locate the anchors for this line between the end of the (a)(2) scoping boundary and the safety-nonsafety interface.