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LR-N10-0155

U.S. Nuclear Regulatory Commission
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Washington, DC 20555-0001

Salem Nuclear Generating Station, Unit No. 1 and Unit No. 2
Facility Operating License Nos. DPR-70 and DPR-75
NRC Docket Nos. 50-272 and 50-311

Subject: Response to NRC Request for Additional Information dated April 14, 2010, Related to Balance of Plant Scoping and Screening Results, Section 2.3 of the Salem Nuclear Generating Station, Units 1 and 2 License Renewal Application

Reference: Letter from Mr. Donnie Ashley (USNRC) to Mr. Thomas Joyce (PSEG Nuclear, LLC) "REQUEST FOR ADDITIONAL INFORMATION REGARDING BALANCE OF PLANT SCOPING AND SCREENING RESULTS FOR THE SALEM NUCLEAR GENERATING STATION UNITS 1 AND 2 (TAC NOS. ME1834 AND ME1836)", dated April 14, 2010

In the referenced letter, the NRC requested additional information related to Balance of Plant Scoping and Screening results associated with Section 2.3 of the Salem Nuclear Generating Station, Units 1 and 2 License Renewal Application (LRA). Enclosed are the responses to this request for additional information.

This letter and its enclosure contain no regulatory commitments.

If you have any questions, please contact Mr. Ali Fakhar, PSEG Manager - License Renewal, at 856-339-1646.

A142
NRR

MAY 12 2010

I declare under penalty of perjury that the foregoing is true and correct.

Executed on 5/12/10

Sincerely,

Paul J. Davison

Paul J. Davison
Vice President, Operations Support
PSEG Nuclear LLC

Enclosure: Responses to Request for Additional Information

cc: S. Collins, Regional Administrator – USNRC Region I
B. Brady, Project Manager, License Renewal – USNRC
R. Ennis, Project Manager - USNRC
NRC Senior Resident Inspector – Salem
P. Mulligan, Manager IV, NJBNE
L. Marabella, Corporate Commitment Tracking Coordinator
Howard Berrick, Salem Commitment Tracking Coordinator

Enclosure

Responses to Request for Additional Information related to Balance of Plant Scoping and Screening Results, Section 2.3 of the Salem Nuclear Generating Station, Units 1 and 2 License Renewal Application (LRA)

RAI 2.3-01
RAI 2.3.3.3-01
RAI 2.3.3.3-02
RAI 2.3.3.3-03
RAI 2.3.3.5-01
RAI 2.3.3.5-02
RAI 2.3.3.20-01
RAI 2.3.3.20-02
RAI 2.3.3.20-03
RAI 2.3.3.21-01
RAI 2.3.3.22-01
RAI 2.3.3.23-01
RAI 2.3.3.23-02
RAI 2.3.3.23-03
RAI 2.3.3.23-04
RAI 2.3.3.25-01

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**
Chemical and Volume Control System	LR-205228(SH1) at C-7 LR-205328(SH1) at C-7	Section of (a)(2) piping is continued from drawing LR-205213(SH3) which was not submitted as part of the application.
	LR-205228(SH1) at A-6	Section of (a)(2) piping continues to drawing LR-205227(SH2). The continuation could not be located.
	LR-205230(SH1) at F-1	Section of (a)(2) piping continues to drawing LR-205349(SH1) which was not submitted as part of the application.
	LR-205230(SH1) at G-5 LR-205330(SH1) at G-5	Section of (a)(2) piping is continued from drawing LR-205213(SH3) which was not submitted as part of the application.
Demineralized Water System	LR-205246(SH1) at B-2,	The 1" (a)(2) line (1"-2DR1079) ends without a continuation note.
	LR-205246(SH1) at B-3	The 1" (a)(2) line (1"-1018) ends without a continuation note.
	LR-205246(SH1) at C-8	The ¾" (a)(2) line (¾"-1040) ends without a continuation note.
	LR-205246(SH1) at F-2	The 1" line (1"-1087) continues to "Panel No. 799" without a drawing number or location.
	LR-205246(SH2) at D-4	The ¾" (a)(2) line (¾"-1020) ends without a continuation note.
	LR-205246(SH2) at F-6	Section of (a)(2) piping continues to drawing LR-247729(SH1) which was not submitted as part of the application.
	LR-205228(SH1) at C-7 LR-205328(SH1) at C-7	Section of (a)(2) piping continues to drawing LR-205213(SH3) which was not submitted as part of the application.
	LR-205246(SH1) at D-7	Section of (a)(1) piping continues from LR-205213 (SH5). The continuation could not be located.

License Renewal System	Drawing Number and Location	Continuation Issue
	LR-205244(SH2) at C-3, D-1, and D-4	Section of (a)(2) piping continues from drawing LR-205246(SH1). The continuation could not be located.
Fresh Water System	LR-205216(SH2) at C-1	Section of (a)(2) piping continues from drawing LR-205324(SH2), which was not submitted as part of the application.
Radioactive Drain System	LR-205239(SH2) at F-6	Section of (a)(2) piping continues from drawing LR-205226(SH2). The continuation could not be located.
	LR-205227(SH2) at G-5	Section of (a)(2) piping continues from drawing LR-205240(SH3), which was not submitted as part of the application.
	LR-205227(SH1) at H-4	Section of (a)(2) piping continues from drawing LR-206967(SH1), which was not submitted as part of the application.
	LR-205227(SH1) at H-10	Section of (a)(2) piping continues from the "control room emergency air conditioner unit" without a continuation drawing.
	LR-205227(SH3) at H-4 through H-11	Sections of (a)(1) piping continue from the "No. 11, 12, 13, 14, and 15 containment fan units" without a continuation drawing.
	LR-205327(SH3) at H-4 through H-11	Sections of (a)(1) piping continue from the "No. 21, 22, 23, 24, and 25 containment fan units" without a continuation drawing.
	LR-205227(SH3) at F-4 LR-205327(SH3) at F-4	Sections of (a)(2) piping continue from the "No. 11, 12, 21, and 22 iodine removal fans", respectively, without a continuation drawing.
	LR-205227(SH1) at H-4	Section of (a)(2) piping continues from drawing LR-206967, which was not submitted as part of the application.
	LR-205327(SH1) at F-5 and F-6	Section of (a)(2) piping continues from drawing LR-247729(SH1), which was not submitted as part of the application.
	LR-205339(SH1) at G-11	Section of (a)(2) piping continues from drawing LR-247729(SH1), which was not submitted as part of the application.
	LR-205344(SH1) at D-3	Section of (a)(2) piping continues to drawing LR-205327(SH1). The continuation could not be located.
	LR-205234(SH1) at G-6	Section of (a)(2) piping continues from the "Holdup Tank" without a continuation drawing.
	LR-205239(SH1) at G-10	Section of (a)(2) piping continues to drawing LR-205327(SH2). The continuation could not be located.
	LR-205344(SH1) at D-4	Section of (a)(2) piping continues to drawing LR-205327(SH1). The continuation could not be located.

License Renewal System	Drawing Number and Location	Continuation Issue
Radwaste System	LR-205230(SH1) at F-1	Section of (a)(2) piping continues to drawing LR-205349(SH1), which was not submitted as part of the application.
	LR-205330(SH1) at E-1, C-2, C-3, C-4, and D-4	Sections of (a)(2) piping continue to drawing LR-247729(SH1), which was not submitted as part of the application.
Main Condensate and Feedwater System	LR-205202(SH1) at D-2, D-5, and D-7	Section of (a)(2) piping continues to drawing LR-205244(SH4), which was not submitted as part of the application.
	LR-205202(SH1) at E-11	Section of (a)(2) piping continues to drawing LR-205223(SH1), which was not submitted as part of the application.
	LR-205302(SH1) at D-2, D-5, and D-7	Section of (a)(2) piping continues to drawing LR-205344(SH4), which was not submitted as part of the application.
	LR-205302(SH1) at E-11 and F-11	Section of (a)(2) piping continues to drawing LR-205323(SH1), which was not submitted as part of the application.
	LR-205302(SH1) at G-11	Section of (a)(2) piping continues to drawing LR-205311(SH1), which was not submitted as part of the application.
Main Steam System	LR-205203(SH6) at H-7	Section of (a)(2) piping continues to drawing LR-205245(SH3), which was not submitted as part of the application.
	LR-205303(SH6) at H-7	Section of (a)(2) piping continues to drawing LR-205345(SH3), which was not submitted as part of the application.
Emergency Diesel Generators and Auxiliary Systems	LR-205241(SH1-6) at E-5 and E-7	Section of (a)(1) piping continues "to booster rack" without a continuation drawing provided. Another section of (a)(1) piping ends without a continuation note.

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 any 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.

PSEG Response:

The PSEG responses for the individual items are discussed in detail below. The 38 individual items (rows) from the NRC request table are numbered, with the "License Renewal System," "Drawing Number and Location" and "Continuation Issue" information repeated for each item.

#	License Renewal System	Drawing Number and Location	Continuation Issue
1	Chemical and Volume Control System	LR-205228(SH1) at C-7 LR-205328(SH1) at C-7	Section of (a)(2) piping is continued from drawing LR-205213(SH3) which was not submitted as part of the application.

PSEG Response:

The Unit 1 license renewal boundary drawing LR-205228 (SH1), location C-7, shows a section of 10 CFR 54.4 (a)(2) piping labeled "Caustic Regenerant Chemicals" originating from drawing 205213 (SH3), location D-11. This Demineralized Water System make-up piping is shown correctly as red and in scope under 10 CFR 54.4(a)(2) for potential spatial interaction. The Demineralized Water System piping originating from drawing 205213 (SH3) is cut and capped on the upstream side, prior to entering the Auxiliary Building. The license renewal boundary drawing LR-205228 (SH1), location C-7, is revised to show the Auxiliary Building wall between valve number 1CV216 and the continuation arrow. The piping on the upstream side of the Auxiliary Building wall is black and not in the scope of license renewal. The piping on the downstream side of the Auxiliary Building wall remains in the scope of license renewal up to, and including, the valve 1CV216. There are no additional component type, material, and environment combinations subject to aging management review due to this revision.

The Unit 2 license renewal boundary drawing LR-205328 (SH1), location C-7, shows a section of 10 CFR 54.4 (a)(2) piping labeled "Caustic Regenerant Chemicals" originating from drawing 205213 (SH3), location E-11. This Demineralized Water System make-up piping is shown correctly as red and in scope under 10 CFR 54.4(a)(2) for potential spatial interaction. The Demineralized Water System piping originating from drawing 205213 (SH3) is cut and capped on the upstream side, prior to entering the Auxiliary Building. The license renewal boundary drawing LR-205328 (SH1), location C-7, is revised to show the Auxiliary Building wall between valve number 2CV216 and the continuation arrow. The piping on the upstream side of the Auxiliary Building wall is black and not in the scope of license renewal. The piping on the downstream side of the Auxiliary Building wall remains in the scope of license renewal up to, and including, the valve 2CV216. There are no additional component type, material, and environment combinations subject to aging management review due to this revision.

#	License Renewal System	Drawing Number and Location	Continuation Issue
2	Chemical and Volume Control System	LR-205228(SH1) at A-6	Section of (a)(2) piping continues to drawing LR-205227(SH2). The continuation could not be located.

PSEG Response:

The continuation arrow for piping line 2"-1WL1021, from the No. 12 Deborating Demineralizer (1CVE16), as shown on the Unit 1 license renewal boundary drawing LR-205228 (SH1), location A-6, is labeled incorrectly as continuing to license renewal boundary drawing LR-205227 (SH2), location H-6. The arrow is revised to show the continuation to license renewal boundary drawing LR-205239 (SH2), location H-6, at piping line 2"-1021. The 2-inch piping is correctly shown on both drawings as red and in the scope of license renewal under 10 CFR 54.4(a)(2).

#	License Renewal System	Drawing Number and Location	Continuation Issue
3	Chemical and Volume Control System	LR-205230(SH1) at F-1	Section of (a)(2) piping continues to drawing LR-205349(SH1) which was not submitted as part of the application.

PSEG Response:

The Unit 1 license renewal boundary drawing LR-205230 (SH1), location F-1, incorrectly shows the piping line, 2"-1053, from valve number 1WR119 continuing to drawing 205349 (SH1), location H-1, as red and in the scope of license renewal under 10 CFR 54.4(a)(2). This piping provides a flow path from the Chemical and Volume Control System to the Nos. 1 and 2 drumming station areas. There are no safety-related systems, structures, or components in the drumming station area and, therefore, there is no potential for spatial interaction. The 2-inch piping line, 2"-1053, is in the scope of license renewal under 10 CFR 54.4(a)(2) up to the wall penetration to the Nos. 1 and 2 drumming station area. Piping line, 2"-1053, passes through the wall into the drumming station area on the downstream side of valve 1WR119 prior to reaching any additional components. The license renewal boundary drawing LR-205230 (SH1), location F-1, is revised to identify the Nos. 1 and 2 drumming station area wall between valve number 1WR119 and the continuation arrow to drawing 205349 (SH2), location H-1. In addition, license renewal boundary drawing LR-205230 (SH1), location F-1, is revised to show the piping on the downstream side of the wall penetration into the Nos. 1 and 2 drumming station area as black and not in the scope of license renewal. There are no additional component type, material, and environment combinations subject to aging management review due to this revision.

#	License Renewal System	Drawing Number and Location	Continuation Issue
4	Chemical and Volume Control System	LR-205230(SH1) at G-5 LR-205330(SH1) at G-5	Section of (a)(2) piping is continued from drawing LR-205213(SH3) which was not submitted as part of the application.

PSEG Response:

The Unit 1 license renewal boundary drawing LR-205230 (SH1), location G-5, shows a section of 2-inch piping labeled "Caustic Metering Pump" originating from drawing 205213 (SH3), location D-11. A system boundary flag identifying the transition from the Demineralized Water System (upstream side) to the Chemical and Volume Control System (downstream side) was inadvertently omitted at the upstream side of valve 1WR46. This Demineralized Water system make-up piping portion is shown correctly as red and in the scope of license renewal under 10 CFR 54.4(a)(2) for potential spatial interaction. The Demineralized Water System piping originating from drawing 205213 (SH3) is cut and capped on the upstream side, prior to entering the Auxiliary Building. The license renewal boundary drawing LR-205230 (SH1), location G-5, is revised to show the Auxiliary Building wall between valve number 1WR46 and the continuation arrow. The piping on the upstream side of the Auxiliary Building wall is black and not in the scope of license renewal. The piping on the downstream side of the Auxiliary Building wall remains in the scope of license renewal up to and including the valve 1WR46. The in scope Chemical and Volume Control System piping line (2"-1140) begins at the upstream side of isolation valve 1WR46 and continues as shown on LR-205230 (SH1), location G-5. The Unit 1 license renewal boundary drawing LR-205230 (SH1) is revised to show the addition of the omitted boundary flag at the upstream side of valve 1WR46. There are no additional component type, material, and environment combinations subject to aging management review due to this revision.

The Unit 2 license renewal boundary drawing LR-205330 (SH1), location G-5, shows a section of 2-inch piping labeled "Caustic Metering Pump" originating from drawing 205213 (SH3), location E-11. A system boundary flag identifying the transition from the Demineralized Water System (upstream side) to the Chemical and Volume Control System (downstream side) was inadvertently omitted at the upstream side of valve 2WR46. This Demineralized Water System make-up piping portion is shown correctly as red and in the scope of license renewal under 10 CFR 54.4(a)(2) for potential spatial interaction. The Demineralized Water System piping originating from drawing 205213 (SH3) is cut and capped on the upstream side, prior to entering the Auxiliary Building. The license renewal boundary drawing LR-205330 (SH1), location G-5, is revised to show the Auxiliary Building wall between valve number 2WR46 and the continuation arrow. The piping on the upstream side of the Auxiliary Building wall is black and not in the scope of license renewal. The piping on the downstream side of the Auxiliary Building wall remains in the scope of license renewal up to and including the valve 2WR46. The in scope Chemical and Volume Control System piping line (2"-1081) begins at the upstream side of isolation valve 2WR46 and continues as shown on LR-205330 (SH1), location G-5. The Unit 2 license renewal boundary drawing LR-205330 (SH1) is revised to show the addition of the omitted boundary flag at the upstream side of valve 2WR46. There are no additional component type, material, and environment combinations subject to aging management review due to this revision.

#	License Renewal System	Drawing Number and Location	Continuation Issue
5	Demineralized Water System	LR-205246(SH1) at B-2,	The 1" (a)(2) line (1"-2DR1079) ends without a continuation note.

PSEG Response:

The 1-inch piping line (1"-2DR1079), shown on license renewal boundary drawing LR-205246 (SH1), location B-2, continues to the No. 2 Unit Battery Room Eye Wash. The eye wash station and its isolation valve were inadvertently omitted from the license renewal boundary drawing LR-205246 (SH1), location B-2. Additionally, a directional arrow and label "No. 2 Battery Room Eye Wash" were also inadvertently omitted from this drawing. There are no other components between the 1-inch piping line (1"-2DR1079) as shown on LR-205246 (SH1), location B-2, and the No. 2 Unit Battery Room Eye Wash. License renewal boundary drawing LR-205246 (SH1) is revised to show the 1-inch piping line and the isolation valve as red for potential spatial interaction and in the scope of license renewal under 10 CFR 54.4(a)(2) up to but not including the eye wash station. There are no additional component type, material, and environment combinations subject to aging management review due to this revision.

#	License Renewal System	Drawing Number and Location	Continuation Issue
6	Demineralized Water System	LR-205246(SH1) at B-3	The 1" (a)(2) line (1"-1018) ends without a continuation note.

PSEG Response:

The 1-inch piping line (1"-1018) and associated valve 1DR95, shown on drawing LR-205246 (SH1), location B-3, continue to the No. 1 Unit Battery Room Eye Wash. A directional arrow and label "No. 1 Battery Room Eye Wash" were inadvertently omitted to the right of valve 1DR95 on LR-205246 (SH1), location B-3. There are no other components between isolation valve 1DR95 and the eye wash station. The 1-inch piping line and isolation valve 1DR95 are correctly shown as red and in the scope of license renewal under 10 CFR 54.4(a)(2) for potential spatial, and subject to an aging management review up to, but not including, the eye wash station. There are no additional component type, material, and environment combinations subject to aging management review due to this revision.

#	License Renewal System	Drawing Number and Location	Continuation Issue
7	Demineralized Water System	LR-205246(SH1) at C-8	The ¾" (a)(2) line (¾"-1040) ends without a continuation note.

PSEG Response:

The license renewal boundary drawing LR-205246 (SH1), location C-8, shows the 3/4-inch (a)(1) piping line (3/4"-1040) continuing on the downstream side of valve 1DR915. A pipe cap was inadvertently omitted at the end of the 3/4-inch piping line (3/4"-1040) from license renewal boundary drawing LR-205246 (SH1), location C-8. The 3/4-inch piping line and pipe cap are in the scope of license renewal under 10 CFR 54.4(a)(1), and subject to an aging management review. License renewal boundary drawing LR-205246 (SH1) is revised to show a pipe cap, in green, at the end of the 3/4-inch piping on the downstream side of valve 1DR915. There are no additional component type, material, and environment combinations subject to aging management review due to this revision.

#	License Renewal System	Drawing Number and Location	Continuation Issue
8	Demineralized Water System	LR-205246(SH1) at F-2	The 1" line (1"-1087) continues to "Panel No. 799" without a drawing number or location.

PSEG Response:

The license renewal boundary drawing LR-205246 (SH1), location F-2, shows the 1-inch piping line (1"-1087) continuing on the downstream side of valve 1DR108 with a note that reads "To Panel No. 799". This designation has a typographical error and should be corrected to read "To Panel No. 779". In addition, license renewal boundary drawing LR-205246 (SH1), location F-2, inadvertently omitted the Panel 779 Demineralized Water System (DWS) manual isolation valve. License renewal boundary drawing LR-205246 (SH1), location F-2, is revised to show the piping and components up to the downstream side of the manual isolation valve as red and in the scope of license renewal under 10 CFR 54.4(a)(2) for potential spatial interaction and subject to an aging management review. Piping on the downstream side of the Panel 779 Demineralized Water System manual isolation valve is abandoned in place and drained and not in the scope of license renewal. There are no additional component type, material, and environment combinations subject to an aging management review due to this revision.

#	License Renewal System	Drawing Number and Location	Continuation Issue
9	Demineralized Water System	LR-205246(SH2) at D-4	The ¾" (a)(2) line (¾"-1020) ends without a continuation note.

PSEG Response:

The license renewal boundary drawing LR-205246 (SH2), location D-4, shows the 3/4-inch (a)(1) piping line (3/4"-1020) continuing on the downstream side of valve 2DR915. A pipe cap was inadvertently omitted at the end of the 3/4-inch piping line (3/4"-1020) from license renewal boundary drawing LR-205246 (SH2), location D-4. The 3/4-inch piping line and pipe cap are in the scope of license renewal under 10 CFR 54.4(a)(1), and subject to an aging management review. License renewal boundary drawing LR-205246 (SH2) is revised to show a pipe cap, in green, at the end of the 3/4-inch piping on the downstream side of valve 2DR915. There are no additional component type, material, and environment combinations subject to aging management review due to this revision.

#	License Renewal System	Drawing Number and Location	Continuation Issue
10	Demineralized Water System	LR-205246(SH2) at F-6	Section of (a)(2) piping continues to drawing LR-247729(SH1) which was not submitted as part of the application.

PSEG Response:

The license renewal boundary drawing LR-205246 (SH2), location F-6, shows an un-labeled 1-inch piping line (1"-1087) on the downstream side of valve 2DR114 that continues to drawing 247729, which was not submitted as part of the license renewal application. Drawing 247729 shows portions of the Unit 2 waste liquid system, specifically the major components of the Unit 2 waste evaporator, which are not in the scope of license renewal. The Unit 2 waste evaporator equipment was never placed in service and is drained and vented. This evaporator is housed in an isolated room, enclosed by interior walls and a metal plate, containing no safety-related SSCs. Therefore, the equipment associated with this waste evaporator has no potential for spatial interaction with safety-related SSCs. The license renewal boundary drawing LR-205246 (SH2), location F-6, incorrectly shows the 1-inch piping line (1"-1087) on the downstream side of valve 2DR114 as red and in the scope of license renewal under 10 CFR 54.4(a)(2). License renewal boundary drawing LR-205246 (SH2) is revised to show the 1-inch piping line (1"-1087) on the downstream side of valve 2DR114 as black and not in the scope of license renewal. There are no additional component type, material, and environment combinations subject to aging management review due to this revision.

#	License Renewal System	Drawing Number and Location	Continuation Issue
11	Demineralized Water System	LR-205228(SH1) at C-7 LR-205328(SH1) at C-7	Section of (a)(2) piping continues to drawing LR-205213(SH3) which was not submitted as part of the application.

PSEG Response:

The Unit 1 license renewal boundary drawing LR-205228 (SH1), location C-7, shows a section of 10 CFR 54.4 (a)(2) piping labeled "Caustic Regenerant Chemicals" originating from drawing 205213 (SH3), location D-11. This Demineralized Water System make-up piping is shown correctly as red and in scope under 10 CFR 54.4(a)(2) for potential spatial interaction. The Demineralized Water System piping originating from drawing 205213 (SH3) is cut and capped on the upstream side, prior to entering the Auxiliary Building. The license renewal boundary drawing LR-205228 (SH1), location C-7, is revised to show the Auxiliary Building wall between valve number 1CV216 and the continuation arrow. The piping on the upstream side of the Auxiliary Building wall is black and not in the scope of license renewal. The piping on the downstream side of the Auxiliary Building wall remains in the scope of license renewal up to and including the valve 1CV216. There are no additional component type, material, and environment combinations subject to aging management review due to this revision.

The Unit 2 license renewal boundary drawing LR-205328 (SH1), location C-7, shows a section of 10 CFR 54.4 (a)(2) piping labeled "Caustic Regenerant Chemicals" originating from drawing 205213 (SH3), location E-11. This Demineralized Water System make-up piping is shown correctly as red and in scope under 10 CFR 54.4(a)(2) for potential spatial interaction. The Demineralized Water System piping originating from drawing 205213 (SH3) is cut and capped on the upstream side, prior to entering the Auxiliary Building. The license renewal boundary drawing LR-205328 (SH1), location C-7, is revised to show the Auxiliary Building wall between valve number 2CV216 and the continuation arrow. The piping on the upstream side of the Auxiliary Building wall is black and not in the scope of license renewal. The piping on the downstream side of the Auxiliary Building wall remains in the scope of license renewal up to and including the valve 2CV216. There are no additional component type, material, and environment combinations subject to aging management review due to this revision.

#	License Renewal System	Drawing Number and Location	Continuation Issue
12	Demineralized Water System	LR-205246(SH1) at D-7	Section of (a)(1) piping continues from LR-205213 (SH5). The continuation could not be located.

PSEG Response:

The license renewal boundary drawing LR-205246 (SH1), location D-7, incorrectly shows the continuation from license renewal boundary drawing LR-205213 (SH5), location H-5. The correct continuation location is from license renewal boundary drawing LR-205213 (SH5), location A-5.

Additionally, license renewal boundary drawing LR-205213 (SH5), location A-5, incorrectly shows the 8-inch piping line (8"-PPL) up to the downstream side of valve 1DM130 as black and not in the scope of license renewal. The license renewal boundary drawing LR-205213 (SH5), location A-5, is revised to show the 8-inch piping line (8"-PPL) as green, on the downstream side of valve 1DM130 with the continuation to license renewal boundary drawing LR-205246 (SH1), location D-7, and in the scope of license renewal under 10 CFR 54.4(a)(3), specifically for Fire Protection, and subject to an aging management review. There are no additional component type, material, and environment combinations subject to aging management review due to this revision.

#	License Renewal System	Drawing Number and Location	Continuation Issue
13	Demineralized Water System	LR-205244(SH2) at C-3, D-1, and D-4	Section of (a)(2) piping continues from drawing LR-205246(SH1). The continuation could not be located.

PSEG Response:

LR-205244 (SH2), Location C-3

The license renewal boundary drawing LR-205244 (SH2), location C-3, correctly shows a 3/8-inch tubing line ending at valve 1SS151, transitioning to a 1/2-inch tubing line, and continuing from license renewal boundary drawing LR-205246 (SH1), location E-8. The continuation is at the component labeled "Sample Trough" on LR-205246 (SH1), location E-8, specifically, the left-side 1/2-inch Demineralized Water System (DWS) supply tubing line. The complete continuation description shown on license renewal boundary drawing LR-205246 (SH1), location E-8, is revised to add "205244 (SH2), location C-3", in addition to the representation of the Sample Trough. The 3/8-inch and 1/2-inch tubing line are correctly shown as red for potential spatial interaction and in the scope of license renewal under 10 CFR 54.4(a)(2), and subject to an aging management review.

LR-205244 (SH2), Location D-1

The license renewal boundary drawing LR-205244 (SH2), location D-1, correctly shows a 3/8-inch tubing line ending at valve 1SS138, transitioning to a 1/2-inch tubing line, and continuing from license renewal boundary drawing LR-205246 (SH1), location E-8. The continuation is at the component labeled "Sample Trough" on LR-205246 (SH1), location E-8, specifically, the right-side 1/2-inch DWS supply tubing line. The complete continuation description shown on license renewal boundary drawing LR-205246 (SH1), location E-8 is revised to add "205244 (SH2), location C-3", in addition to the representation of the Sample Trough. The 3/8-inch and 1/2-inch tubing line are correctly shown as red and in the scope of license renewal for potential spatial interaction under 10 CFR 54.4(a)(2), and subject to an aging management review.

LR-205244 (SH2), Location D-4

The license renewal boundary drawing LR-205244 (SH2), location D-4, correctly shows a 1/2-inch tubing line transitioning to 3/8-inch tubing, and terminating on the downstream side of valve 1SS87. This continuation is shown from license renewal boundary drawing LR-205246 (SH1), location G-8. The continuation is specifically from the far right sink and associated 1/2-inch DWS tubing shown on LR-205246 (SH1), location G-8. The sink should be labeled "No. 1 Hood & Sink". The complete continuation description shown on license renewal boundary drawing LR-205246 (SH1), location G-8, is revised to add "205244 (SH2), location D-4", in addition to the representation of the No. 1 Hood & Sink. The 3/8-inch and 1/2-inch tubing lines are correctly shown as red and in the scope of license renewal for potential spatial interaction under 10 CFR 54.4(a)(2), and subject to an aging management review.

#	License Renewal System	Drawing Number and Location	Continuation Issue
14	Fresh Water System	LR-205216(SH2) at C-1	Section of (a)(2) piping continues from drawing LR-205324(SH2), which was not submitted as part of the application.

PSEG Response:

The continuation arrow shown on license renewal boundary drawing LR-205216 (SH2), location C-1, incorrectly references license renewal boundary drawing LR-205324 (SH2), location F-3. This continuation arrow should reference license renewal boundary drawing LR-205324 (SH1), location H-11. The license renewal boundary drawing LR-205324 (SH1), location H-11, shows the potable water supply to the No. 2 Chiller Expansion Tank, part of the Fresh Water System, located in the Battery Room. The potable water supply line is correctly shown as red and in the scope of license renewal for potential spatial interaction under 10 CFR 54.4(a)(2), and subject to an aging management review. The continuation arrow on LR-205216 (SH2), location C-1, is revised as continuing to license renewal boundary drawing LR-205324 (SH1), location H-11.

#	License Renewal System	Drawing Number and Location	Continuation Issue
15	Radioactive Drain System	LR-205239(SH2) at F-6	Section of (a)(2) piping continues from drawing LR-205226(SH2). The continuation could not be located.

PSEG Response:

The continuation arrow on license renewal boundary drawing LR-205239 (SH2), location F-6, incorrectly references "Hot Shower Drains in the Controlled Facilities Building" on license renewal boundary drawing LR-205226 (SH2). License renewal boundary drawing LR-205226 (SH2) is an incorrect reference. The correct drawing reference is 205631 (SH1), location B-4. Drawing 205631 (SH1) is not a license renewal boundary drawing, however, it shows the drainage from the Controlled Facilities Building to the Radioactive Drain System originating from the eye wash station located in the Controlled Facilities Building. This drain piping from the eye wash station is not in the scope of license renewal until it enters the Auxiliary Building, where the potential for spatial interaction with safety-related equipment exists. License renewal boundary drawing LR-205239 (SH2), location F-6, is revised to show the Auxiliary Building wall between the 4-inch drain header (4"-1229) and the continuation arrow. The piping on the upstream side of the Auxiliary Building wall is black and not in the scope of license renewal. The drawing continues to show the piping on the downstream side of the Auxiliary Building wall as red and in the scope of license renewal under 10 CFR 54.4(a)(2) for potential spatial interaction. There are no additional component type, material, and environment combinations subject to aging management review due to this revision.

#	License Renewal System	Drawing Number and Location	Continuation Issue
16	Radioactive Drain System	LR-205227(SH2) at G-5	Section of (a)(2) piping continues from drawing LR-205240(SH3), which was not submitted as part of the application.

PSEG Response:

The scope of license renewal boundary drawing LR-205227 (SH2), location G-5, includes the Radioactive Drain System. The continuation arrow labeled "No. 1 Gas Analyzer" at location G-5 references drawing 205240 (SH3), location A-1. Drawing 205240 (SH3) shows piping and components associated with the No. 1 Gas Analyzer. The No. 1 Gas Analyzer is a passive component that is filled with gas. This piping does not present a spatial interaction hazard, and, therefore, the piping is not in the scope of license renewal nor subject to an aging management review. The license renewal boundary drawing LR-205227 (SH2), location G-5, is revised to show valve 1WG173 (which is presently shown on drawing 205240 (SH3)) on the downstream side of the continuation arrow. License renewal boundary drawing LR-205227 (SH2) is revised to show the 3/8-inch piping line (MM-13.2) at the upstream side of 3/8-inch valve 1WG173 as black and not in the scope of license renewal. Valve 1WG173 and the 3/8-inch piping line at the downstream side of valve 1WG173 are correctly shown as red and in the scope of license renewal under 10 CFR 54.4 (a)(2) for potential spatial interaction. There are no additional component type, material, and environment combinations subject to aging management review due to this revision.

#	License Renewal System	Drawing Number and Location	Continuation Issue
17	Radioactive Drain System	LR-205227(SH1) at H-4	Section of (a)(2) piping continues from drawing LR-206967(SH1), which was not submitted as part of the application.

PSEG Response::

The Unit 1 license renewal boundary drawing LR-205227 (SH1), location H-4, incorrectly shows the continuation of the floor drain piping (2"-1866) from the Blowdown Filter Compartment Drain, mechanical arrangement drawing 206967, location F-2. The continuation should not identify a drawing reference. The continuation shown on license renewal drawing LR-205227 (SH1), location H-4, should only identify the source of the floor drain as the Blowdown Filter Compartment Drain, and not the mechanical arrangement drawing, which was not submitted as part of the application. The Blowdown Filter Compartment is comprised of structural walls within the Unit 1 Auxiliary Building, housing the Blowdown Filter. The Auxiliary Building is in scope for license renewal under 10 CFR 54.4(a)(1). The 2-inch floor drain piping (2"-1866) continuing from the Blowdown Filter Compartment is within the boundary of the Radioactive Drain System as shown on LR-205227 (SH1), location H-4.

There are no additional components between the Blowdown Filter Compartment Drain, shown on mechanical arrangement drawing 206967, and the 2-inch floor drain piping (2"-1866). The floor drain piping is correctly shown as red on LR-205227 (SH1), location H-4, as within the scope of license renewal and subject to an aging management review. There are no additional component type, material, and environment combinations subject to aging management review due to this revision.

#	License Renewal System	Drawing Number and Location	Continuation Issue
18	Radioactive Drain System	LR-205227(SH1) at H-10	Section of (a)(2) piping continues from the "control room emergency air conditioner unit" without a continuation drawing.

PSEG Response:

The 1.5-inch condensate piping drain line continuation from the control room emergency air conditioning unit shown on license renewal boundary drawing LR-205227 (SH1), location H-10, represents drain piping utilized to remove condensation from cooling coils located inside the air conditioning unit. The control room emergency air conditioning unit and its associated cooling coil unit (1VHE315) are part of the Control Area Ventilation system, shown on license renewal boundary drawing LR-205248 (SH2), location F-10. These components are shown as green and in the scope of license renewal under 10 CFR 54.4(a)(1). The 1.5-inch piping drain line is not shown on LR-205248 (SH2), location F-10 and, therefore, has no continuation arrow to LR-205227 (SH1), location H-10. The 1.5-inch piping drain line, external to the cooling coil housing (1VHE315), as shown on drawing LR-205227 (SH1) is within the boundary of the Radioactive Drain System. This piping drain line is incorrectly shown as red in the scope of license renewal under 10 CFR 54.4(a)(2). License renewal boundary drawing LR-205227 (SH1) is revised to show the piping originating from the control room emergency air conditioning unit up to and including valves number 1WD70 and 1WD71, as green and in scope for license renewal under 10 CFR 54.4(a)(1). The attached piping and components to the right of valves number 1WD70 and 1WD71, to the local level indicator (LL-15791), are shown correctly as in the scope of license renewal under 10 CFR 54.4(a)(2). There are no additional component type, material, and environment combinations subject to aging management review due to this revision.

#	License Renewal System	Drawing Number and Location	Continuation Issue
19	Radioactive Drain System	LR-205227(SH3) at H-4 through H-11	Sections of (a)(1) piping continue from the "No. 11, 12, 13, 14, and 15 containment fan units" without a continuation drawing.

PSEG Response:

The piping drain line from the Containment Fan Units [also described as the Fan Coil Units on the Unit 1 license renewal boundary drawing LR-205238 (SH2, SH3)] shown on Unit 1 license renewal boundary drawing LR-205227 (SH3), locations H-4 through H-11, represents piping utilized to remove condensation from inside the No. 11, 12, 13, 14 and 15 Containment Fan Units. The Nos. 11, 12, and 15 Containment Fan Units are part of the Containment Ventilation System shown on license renewal boundary drawing LR-205238 (SH2), locations F-6, F-11, F-2, respectively. The Nos. 13 and 14 Containment Fan Units are also part of the Containment Ventilation System shown on license renewal boundary drawing LR-205238 (SH3), locations E-3 and E-6, respectively. The license renewal boundary drawings LR-205238 (SH2) and LR-205238 (SH3) do not show the piping drain lines and, therefore, has no continuation arrow to license renewal boundary drawing LR-205227 (SH3).

#	License Renewal System	Drawing Number and Location	Continuation Issue
20	Radioactive Drain System	LR-205327(SH3) at H-4 through H-11	Sections of (a)(1) piping continue from the "No. 21, 22, 23, 24, and 25 containment fan units" without a continuation drawing.

PSEG Response:

The piping drain line from the Containment Fan Units [also described as the Fan Coil Units on the Unit 2 license renewal boundary drawing LR-205338 (SH2)] shown on Unit 2 license renewal boundary drawing LR-205327 (SH3), locations H-4 through H-11, represents piping utilized to remove condensation from inside the No. 21, 22, 23, 24 and 25 Containment Fan Coil Units. The Nos. 21, 22, and 25 Containment Fan Coil Units are part of the Containment Ventilation System shown on Unit 2 license renewal boundary drawing LR-205338 (SH2), locations F-6, F-11, F-2, respectively. The Nos. 23 and 24 Containment Fan Coil Units are also part of the Containment Ventilation System shown on Unit 2 license renewal boundary drawing LR-205338 (SH3), locations F-3 and F-7, respectively. The license renewal boundary drawings LR-205338 (SH2) and LR-205338 (SH3) do not show the piping drain lines and, therefore, has no continuation arrow to license renewal boundary drawing LR-205327 (SH3).

#	License Renewal System	Drawing Number and Location	Continuation Issue
21	Radioactive Drain System	LR-205227(SH3) at F-4 LR-205327(SH3) at F-4	Sections of (a)(2) piping continue from the "No. 11, 12, 21, and 22 iodine removal fans", respectively, without a continuation drawing.

PSEG Response:

LR-205227 (SH3)

The piping continuations from the iodine removal units, shown on Unit 1 license renewal boundary drawing LR-205227 (SH3), locations F-4 and F-8, represent piping drain lines utilized to remove condensation from inside the iodine removal units. The identification label (i.e., No. 11 or No. 12 Iodine Removal Unit), above each of the two sets of piping drain lines represents the iodine removal units, which are not in scope for license renewal. The piping drain lines are not shown on LR-205238, SH2, location A-1 and SH3, location B-2 and, therefore, have no continuation arrow to LR-205227 (SH3), locations F-4 and F-8. Therefore, a continuation arrow from each of the iodine removal units was not shown LR-205227 (SH3), locations F-4 and F-8. The No. 11 and 12 iodine removal units are part of the Containment Ventilation System, shown on license renewal boundary drawings LR-205238, SH2, location A-1 and SH3, location B-2, respectively. Piping drain lines external to the iodine removal units contain liquid and are within the boundary of the Radioactive Drain System. These external piping drain lines are correctly shown as red and in the scope of license renewal under 10 CFR 54.4(a)(2).

LR-205327 (SH3)

The piping continuations from the iodine removal units, shown on Unit 2 license renewal boundary drawings LR-205327 (SH3) locations F-4 and F-8, represent piping drain lines utilized to remove condensation from inside the iodine removal units. The identification label (i.e., No. 21 or No. 22 Iodine Removal Unit), above each of the two sets of piping drain lines represents the iodine removal units, which are not in the scope for license renewal. The piping drain lines are not shown on LR-205338, SH2, location A-1 and SH3, location B-2 and, therefore, have no continuation arrow to LR-205327 (SH3), locations F-4 and F-8. Therefore, a continuation arrow from each of the iodine removal units was not shown LR-205327 (SH3), locations F-4 and F-8. The No. 21 and 22 iodine removal units are part of the Containment Ventilation System, shown on license renewal boundary drawings LR-205338 (SH2), location A-1 and (SH3), location B-2, respectively. Piping drain lines external to the iodine removal units contain liquids and are within the boundary of the Radioactive Drain System. These external piping drain lines are correctly shown as red and in the scope of license renewal under 10 CFR 54.4(a)(2).

#	License Renewal System	Drawing Number and Location	Continuation Issue
22	Radioactive Drain System	LR-205227(SH1) at H-4	Section of (a)(2) piping continues from drawing LR-206967, which was not submitted as part of the application.

PSEG Response::

The Unit 1 license renewal boundary drawing LR-205227 (SH1), location H-4, incorrectly shows the continuation of the floor drain piping (2"-1866) from the Blowdown Filter Compartment Drain, mechanical arrangement drawing 206967, location F-2. The continuation should not identify a drawing reference. The continuation shown on license renewal drawing LR-205227 (SH1), location H-4, should only identify the source of the floor drain as the Blowdown Filter Compartment Drain, and not the mechanical arrangement drawing, which was not submitted as part of the application. The Blowdown Filter Compartment is comprised of structural walls within the Unit 1 Auxiliary Building, housing the Blowdown Filter. The Auxiliary Building is in scope for license renewal under 10 CFR 54.4(a)(1). The 2-inch floor drain piping (2"-1866) continuing from the Blowdown Filter Compartment is within the boundary of the Radioactive Drain System as shown on LR-205227 (SH1), location H-4.

There are no additional components between the Blowdown Filter Compartment Drain, shown on mechanical arrangement drawing 206967, and the 2-inch floor drain piping (2"-1866). The floor drain piping is correctly shown as red on LR-205227 (SH1), location H-4, as within the scope of license renewal and subject to an aging management review. There are no additional component type, material, and environment combinations subject to aging management review due to this revision.

#	License Renewal System	Drawing Number and Location	Continuation Issue
23	Radioactive Drain System	LR-205327(SH1) at F-5 and F-6	Section of (a)(2) piping continues from drawing LR-247729(SH1), which was not submitted as part of the application.

PSEG Response:

The Unit 2 license renewal boundary drawing LR-205327 (SH1), locations F-5 and F-6, show four (4) piping continuations from drawing 247729, which was not submitted as part of the license renewal application. The drawing 247729 contains the Unit 2 waste evaporator system which was never placed in service and is not in scope for license renewal. The Unit 2 waste evaporator equipment was never placed in service and is drained and vented. This evaporator is housed in an isolated room, enclosed by interior walls and a metal plate, containing no safety-related SSCs. Therefore, the equipment associated with this waste evaporator has no potential for spatial interaction with safety-related SSCs. Each of the piping continuations is discussed below.

- The 2-inch (KK-14.8) piping continuation from drawing 247729 (SH1), location D-1, labeled "Recirc. Pump Discharge" is shown incorrectly as red and in the scope of license renewal under 10 CFR 54.4(a)(2). License renewal boundary drawing LR-205327 is revised to show the piping from drawing 247729 (SH1) to the 2-inch radioactive drain header as black and not in the scope of license renewal.

- The 2-inch (KK-15.7) piping continuation from drawing 247729 (SH1), location D-4, labeled "Entrainment" is shown incorrectly as red and in the scope of license renewal under 10 CFR 54.4(a)(2). License renewal boundary drawing LR-205327 is revised to show the piping from drawing 247729 (SH1) to the 2-inch radioactive drain header as black and not in the scope of license renewal.

- The 2-inch (LL-15.7) piping continuation from drawing 247729 (SH1), location A-4, labeled "Concentrate Transfer Pump" is shown incorrectly as red and in the scope of license renewal under 10 CFR 54.4(a)(2). License renewal boundary drawing LR-205327 is revised to show the piping from drawing 247729 (SH1) to the 2-inch radioactive drain header as black and not in the scope of license renewal.

- The 2-inch (LL-15.7) piping continuation from drawing 247729 (SH1), location A-2, labeled "Recirc. Pump Pan" is shown incorrectly as red and in the scope of license renewal under 10 CFR 54.4(a)(2). License renewal boundary drawing LR-205327 is revised to show the piping from drawing 247729 (SH1) to the 2-inch radioactive drain header as black and not in the scope of license renewal.

There are no additional component type, material, and environment combinations subject to aging management review due to this revision.

#	License Renewal System	Drawing Number and Location	Continuation Issue
24	Radioactive Drain System	LR-205339(SH1) at G-11	Section of (a)(2) piping continues from drawing LR-247729(SH1), which was not submitted as part of the application.

PSEG Response:

The Unit 2 license renewal boundary drawing LR-205339 (SH1), location G-11, shows a piping continuation from drawing 247729, which was not submitted as part of the license renewal application. Drawing 247729 contains the Unit 2 waste evaporator system, which is not in scope for license renewal. The Unit 2 waste evaporator equipment was never placed in service and is drained and vented. This evaporator is housed in an isolated room, enclosed by interior walls and a metal plate, containing no safety-related SSCs. Therefore, the equipment associated with this waste evaporator has no potential for spatial interaction with safety-related SSCs.

The 1.5-inch piping shown on LR-205339 (SH1), location G-11, originates from the Unit 2 waste evaporator equipment. The 1.5-inch piping passes through the wall from the isolated Unit 2 waste evaporator room. License renewal boundary drawing LR-205339 (SH1), location G-11, is revised to show the wall separating the Auxiliary Building and the Unit 2 waste evaporator room on the 1.5-inch piping between the continuation arrow from drawing 247729 (SH1), location C-9, and the piping line (1"-1039) tee connection. LR-205339 (SH1) is also revised to show the 1.5-inch piping as black and not in the scope of license renewal on the upstream side of the wall between the Auxiliary Building and the Unit 2 waste evaporator room. The piping is in scope for license renewal under 10 CFR 54.4 (a)(2) on the downstream side of the wall between the Auxiliary Building and the Unit 2 waste evaporator room. There are no additional component type, material, and environment combinations subject to aging management review due to this revision.

#	License Renewal System	Drawing Number and Location	Continuation Issue
25	Radioactive Drain System	LR-205344(SH1) at D-3	Section of (a)(2) piping continues to drawing LR-205327(SH1). The continuation could not be located.

PSEG Response:

The Unit 2 license renewal boundary drawing LR-205344 (SH1), location D-4, incorrectly shows the 3/8-inch tubing drain line on the downstream side of valve 2SS16 continuing to Unit 2 license renewal boundary drawing LR-205327 (SH1), location G-9. The correct continuation location is at Unit 1 license renewal boundary drawing LR-205227 (SH1), location F-9, specifically, the 2-inch piping drain line (2"-1913). Additionally, the 2-inch piping drain line (2"-1913) is incorrectly shown on license renewal boundary drawing LR-205227 (SH1), location F-9, as "Future". The correct continuation on Unit 1 license renewal boundary drawing LR-205227 (SH1), location F-9, should be from Unit 2 license renewal boundary drawing "205344 (SH1), location D-4". The 3/8-inch tubing drain line transitions into a 2-inch piping drain line at the continuation shown on license renewal boundary drawing LR-205227 (SH1), location F-9.

The 3/8-inch tubing drain line on the downstream side of valve 2SS16 on license renewal boundary drawing LR-205344 (SH1), location D-4 and the revised continuation to the 2-inch piping drain line (2"-1913) on LR-205227 (SH1), location F-9 are correctly shown as red and in the scope of license renewal under 10 CFR 54.4(a)(2) for potential spatial interaction.

There are no additional component type, material, and environment combinations subject to aging management review due to this revision.

#	License Renewal System	Drawing Number and Location	Continuation Issue
26	Radioactive Drain System	LR-205234(SH1) at G-6	Section of (a)(2) piping continues from the "Holdup Tank" without a continuation drawing.

PSEG Response:

The Unit 1 license renewal boundary drawing LR-205234 (SH1), location G-6, shows the 14-inch overflow piping line (14"-1WL1190) continuing to the "Hold Up Tank". The continuation description is incomplete and is revised to show the label as "No. 13 Hold Up Tank Dike Area", representing an area within the Unit 1 Auxiliary Building. The No. 13 Hold Up Tank is shown on license renewal boundary drawing LR-205229 (SH2), location C-6. The 14-inch overflow piping line (14"-1WL1190) terminates as open end piping at the No. 13 Hold-Up Tank Dike Area inside the Unit 1 Auxiliary Building.

#	License Renewal System	Drawing Number and Location	Continuation Issue
27	Radioactive Drain System	LR-205239(SH1) at G-10	Section of (a)(2) piping continues to drawing LR-205327(SH2). The continuation could not be located.

PSEG Response:

This request was discussed on a telephone conference on April 28th, 2010 at 1030 hours. After discussion, the NRC reviewer indicated that a response to this request is not required.

#	License Renewal System	Drawing Number and Location	Continuation Issue
28	Radioactive Drain System	LR-205344(SH1) at D-4	Section of (a)(2) piping continues to drawing LR-205327(SH1). The continuation could not be located.

PSEG Response:

The Unit 2 license renewal boundary drawing LR-205344 (SH1), location D-4, incorrectly shows the 3/8-inch tubing drain line on the downstream side of valve 2SS16 continuing to Unit 2 license renewal boundary drawing LR-205327 (SH1), location G-9. The correct continuation location is at Unit 1 license renewal boundary drawing LR-205227 (SH1), location F-9, specifically, the 2-inch piping drain line (2"-1913). Additionally, the 2-inch piping drain line (2"-1913) is incorrectly shown on license renewal boundary drawing LR-205227 (SH1), location F-9, as "Future". The correct continuation on Unit 1 license renewal boundary drawing LR-205227 (SH1), location F-9, should be from Unit 2 license renewal boundary drawing "205344 (SH1), location D-4". The 3/8-inch tubing drain line transitions into a 2-inch piping drain line at the continuation shown on license renewal boundary drawing LR-205227 (SH1), location F-9.

The 3/8-inch tubing drain line on the downstream side of valve 2SS16 on license renewal boundary drawing LR-205344 (SH1), location D-4 and the revised continuation to the 2-inch piping drain line (2"-1913) on LR-205227 (SH1), location F-9 are correctly shown as red and in the scope of license renewal under 10 CFR 54.4(a)(2) for potential spatial interaction.

There are no additional component type, material, and environment combinations subject to aging management review due to this revision.

#	License Renewal System	Drawing Number and Location	Continuation Issue
29	Radwaste System	LR-205230(SH1) at F-1	Section of (a)(2) piping continues to drawing LR-205349(SH1), which was not submitted as part of the application.

PSEG Response:

The Unit 1 license renewal boundary drawing LR-205230 (SH1), location F-1, incorrectly shows the piping line, 2"-1053, from valve number 1WR119 continuing to drawing 205349 (SH1), location H-1, as red and in the scope of license renewal under 10 CFR 54.4(a)(2). This piping provides a flow path from the Chemical and Volume Control System to the Nos. 1 and 2 drumming station areas. There are no safety-related systems, structures, or components in the drumming station area and, therefore, there is no potential for spatial interaction. The 2-inch piping line, 2"-1053, is in the scope of license renewal under 10 CFR 54.4(a)(2) up to the wall penetration to the Nos. 1 and 2 drumming station area. Piping line, 2"-1053, passes though the wall into the drumming station area on the downstream side of valve 1WR119 prior to reaching any additional components. The license renewal boundary drawing LR-205230 (SH1), location F-1, is revised to identify the Nos. 1 and 2 drumming station area wall between valve number 1WR119 and the continuation arrow to drawing 205349 (SH2), location H-1. In addition, the continuation arrow on license renewal boundary drawing LR-205230 (SH1), location F-1, is revised as black and not in the scope of license renewal for the piping on the downstream side of the wall penetration into the Nos. 1 and 2 drumming station area. There are no additional component type, material, and environment combinations subject to aging management review due to this revision.

#	License Renewal System	Drawing Number and Location	Continuation Issue
30	Radwaste System	LR-205330(SH1) at E-1, C-2, C-3, C-4, and D-4	Sections of (a)(2) piping continue to drawing LR-247729(SH1), which was not submitted as part of the application.

PSEG Response:

The Unit 2 License renewal boundary drawing LR-205330 (SH1) shows piping and valves with ten continuation arrows to drawing 247729 (SH1). The piping to drawing 247729 (SH1) is shown in locations C-2, C-3, C-4, D-2, D-3, D-4, and E-1 of license renewal boundary drawing LR-205330 (SH1). The piping to drawing 247729 (SH1) is incorrectly shown as red as in the scope of license renewal under 10 CFR 54.4(a)(2). Drawing 247729 (SH1) is a flow diagram of the Unit 2 waste evaporator system. The Unit 2 waste evaporator equipment was physically installed but has never been placed in service. The piping to the Unit 2 waste evaporator system does not contain water, steam, or oil and does not provide structural support for safety-related components and, therefore, is not within the scope of license renewal under 10 CFR 54.4(a)(2). Isolation from the process water containing Chemical and Volume Control System and Heating Water and Heating Steam System is accomplished by maintaining valve number 2WL281 on LR-205330 (SH1), location G-1, and valve number 2WR148, location C-1, in the closed position in all modes. Piping and components on the downstream side of valve numbers 2WL281 and 2WR148 are not within the scope of license renewal under 10 CFR 54.4. License renewal boundary drawing LR-205330 (SH1) is revised to show the piping and components on the downstream side of valve numbers 2WL281 and 2WR148, to the continuation arrows to drawing 247729 (SH1), as black and not in the scope of license renewal.

In addition, the last sentence of the first paragraph of the system boundary description in LRA Section 2.3.3.21 on page 2.3-182 is revised as shown below. New text is indicated in bolded-italic font.

> The components associated with the ***Unit 1 and Unit 2*** boric acid evaporator and the ***Unit 1*** waste evaporator are in scope for license renewal due to leakage boundary. ***The components associated with the Unit 2 waste evaporator are not in scope for license renewal because the Unit 2 waste evaporator has never been placed in service and there are no safety-related components in the same isolated room. Therefore, there is no potential for spatial interaction with safety-related SSCs.***

There are no additional component type, material, and environment combinations subject to aging management review due to this revision.

#	License Renewal System	Drawing Number and Location	Continuation Issue
31	Main Condensate and Feedwater System	LR-205202(SH1) at D-2, D-5, and D-7	Section of (a)(2) piping continues to drawing LR-205244(SH4), which was not submitted as part of the application.

PSEG Response:

The Unit 1 license renewal boundary drawing LR-205202 (SH1), locations D-2, D-5, and D-7 show tubing designated as 6966 H-N, 6967 H-N, and 6968 H-N within the scope of license renewal under 10 CFR 54.4(a)(3), and shown in green. Tubing lines 6966 H-N, 6967 H-N, and 6968 H-N continue to drawing 205244 (SH4), locations H-3 and H-4. The only function of the three tubing lines is to provide samples from the discharge piping of the three nonsafety-related condensate pumps to the chemistry lab grab sample panel. The three tubing lines designated 6966 H-N, 6967 H-N, and 6968 H-N are not relied upon in any safety analyses or plant evaluations to perform a function that demonstrates compliance with the regulations for any of the five regulated events under 10 CFR 54.4(a)(3). These three tubing lines are not in the scope of license renewal. License renewal boundary drawing LR-205202 (SH1), locations D-2, D-5 and D-7, is revised to show the piping, tubing, and valves on the downstream side of valves 11CN908, 12CN908, and 13CN908 as black and not in the scope of license renewal.

#	License Renewal System	Drawing Number and Location	Continuation Issue
32	Main Condensate and Feedwater System	LR-205202(SH1) at E-11	Section of (a)(2) piping continues to drawing LR-205223(SH1), which was not submitted as part of the application.

PSEG Response:

The Unit 1 license renewal boundary drawing LR-205202 (SH1), location E-11 shows pipe line 12"-1CN1138 continuing from valve 1CN42 through a spectacle blind flange with a continuation arrow to drawing 205223 (SH1) as green and in the scope of license renewal under 10 CFR 54.4(a)(3). The only function of this piping is to provide a drain path to the No. 13 Turbine Building Sump. The spectacle blind flange isolates the piping drain line to the No. 13 Turbine Building Sump from the portion of the Main Condensate and Feedwater System in the scope of license renewal under 10 CFR 54.4(a)(3). The piping drain line from the spectacle blind flange to the No. 13 Turbine Building Sump is not relied upon in any safety-analyses or plant evaluations to perform a function that demonstrates compliance with the regulations for any of the five regulated events under 10 CFR 54.4(a)(3). The piping to the No. 13 Turbine Building Sump is not in the scope of license renewal. The license renewal boundary drawing LR-205202 (SH1), location E-11, is revised to show the 12-inch piping as black at the downstream side of the spectacle blind flange and not in the scope of license renewal.

#	License Renewal System	Drawing Number and Location	Continuation Issue
33	Main Condensate and Feedwater System	LR-205302(SH1) at D-2, D-5, and D-7	Section of (a)(2) piping continues to drawing LR-205344(SH4), which was not submitted as part of the application.

PSEG Response:

The Unit 2 license renewal boundary drawing LR-205302 (SH1), locations D-2, D-5, and D-7 show tubing designated 6966 H-N, 6967 H-N, and 6968 H-N as green and in the scope of license renewal under 10 CFR 54.4(a)(3). Tubing lines 6966 H-N, 6967 H-N, and 6968 H-N continue to drawing 205344 (SH4), locations H-3 and H-4. The only function of the three tubing lines is to provide samples from the discharge piping of the three nonsafety-related condensate pumps to the chemistry lab grab sample panel. These three tubing lines designated 6966 H-N, 6967 H-N, and 6968 H-N are not relied upon in safety-analyses or plant evaluations to perform a function that demonstrates compliance with the regulations for the five regulated events. The three tubing lines are not in the scope of license renewal. License renewal boundary drawing LR-205302 (SH1), locations D-2, D-5 and D-7, is revised to show the tubing on the downstream side of valves 21CN908, 22CN908, and 23CN908 as black and not in the scope of license renewal.

#	License Renewal System	Drawing Number and Location	Continuation Issue
34	Main Condensate and Feedwater System	LR-205302(SH1) at E-11 and F-11	Section of (a)(2) piping continues to drawing LR-205323(SH1), which was not submitted as part of the application.

PSEG Response:

The Unit 2 license renewal boundary drawing LR-205302 (SH1), location E-11, shows pipe line 12"-1089 continuing from valve 2CN42 through a spectacle blind flange with a continuation arrow to drawing 205323 (SH1) as green and in the scope of license renewal under 10 CFR 54.4(a)(3). The only function of this piping is to provide a drain path to the No. 23 Turbine Building Sump. The spectacle blind flange isolates the piping drain line to the No. 23 Turbine Building Sump from the portion of the Main Condensate and Feedwater system in the scope of license renewal under 10 CFR 54.4(a)(3). The piping drain line from the spectacle blind flange to the No. 23 Turbine Building Sump is not relied upon in any safety-analyses or plant evaluations to perform a function that demonstrates compliance with any of the regulations for the five regulated events defined in 10 CFR 54.4(a)(3). The piping to the No. 23 Turbine Building Sump is not in the scope of license renewal. License renewal boundary drawing LR-205302 (SH1), location E-11, is revised to show the 12-inch piping as black at the downstream side of the spectacle blind flange and not in the scope of license renewal.

#	License Renewal System	Drawing Number and Location	Continuation Issue
35	Main Condensate and Feedwater System	LR-205302(SH1) at G-11	Section of (a)(2) piping continues to drawing LR-205311(SH1), which was not submitted as part of the application.

PSEG Response:

The Unit 2 license renewal boundary drawing LR-205302 (SH1), locations F-11 and G-11, show two piping lines (1½"-1142 and 4"-1136) from valves 2CN923 and 2CN921, respectively, with continuation arrows to drawing 205311 (SH1), locations H-11 and F-10, as green and in the scope of license renewal under 10 CFR 54.4(a)(3). The only function of the two piping lines is to provide a flow path from the condensate transfer pumps to the Miscellaneous Condensate System headers. The two piping lines (1½"-1142 and 4"-1136) are not relied upon in any safety analyses or plant evaluations to perform a function that demonstrates compliance with the regulations for any of the five regulated events under 10 CFR 54.4(a)(3). The piping from valves 2CN923 and 2CN921 to the Miscellaneous Condensate System headers are not in the scope of license renewal. License renewal boundary drawing LR-205302 (SH1), locations F-11 and G-11, is revised to show the piping and valves as black at the downstream side of valves 2CN923 and 2CN921 and not in the scope of license renewal. There are no additional component type, material, and environment combinations subject to aging management review due to this revision.

#	License Renewal System	Drawing Number and Location	Continuation Issue
36	Main Steam System	LR-205203(SH6) at H-7	Section of (a)(2) piping continues to drawing LR-205245(SH3), which was not submitted as part of the application.

PSEG Response:

License renewal drawing LR-205203 (SH6) shows Unit 1 main steam and turbine by-pass (MSTB) piping that is in scope for license renewal. The 10-inch MSTB piping incorrectly shows the piping, at location H-7, continuing to drawing 205245. The 10-inch MSTB piping should only continue to valves 13MS64 and 13MS65.

This drawing contains an error in the MSTB piping configuration at location H-7. The "T" configuration shown on the upstream side of valve 13MS62 is incorrect. The pipe branch from the "T" to the continuation arrow referencing drawing 205245 (SH3), location G-11, should be deleted. The 10-inch piping on the upstream side of this T-connection should connect only to valve 13MS62. Additionally, the references in continuation arrows on the downstream side of valves 13MS64 and 13MS65 should both be revised to read "205245 (SH3), location G-10". The label above each arrow should read: "To Main Steam Reheat Coil in 13E Moisture Separator Reheater".

Piping from the continuation arrow at LR-205203 (SH6), location H-1, up to and including valves 13MS64 and 13MS65, is correctly shown as green and in scope for license renewal under 10 CFR 54.4(a)(3) and is subject to an aging management review. Piping located on the downstream side of valves 13MS64 and 13MS65 is not in scope for license renewal and is correctly shown as black.

Drawing LR-205203 (SH6) is revised to show the removal of the 10-inch pipe branch from the T-connection at location H-6 up to, and including, the continuation arrow at location H-7, which references drawing 205245 (SH3), location G-11.

#	License Renewal System	Drawing Number and Location	Continuation Issue
37	Main Steam System	LR-205303(SH6) at H-7	Section of (a)(2) piping continues to drawing LR-205345(SH3), which was not submitted as part of the application.

PSEG Response:

License renewal drawing LR-205303 (SH6) shows Unit 2 main steam and turbine by-pass (MSTB) piping that is in scope for license renewal. The 10-inch MSTB piping incorrectly shows the piping, at location H-7, continuing to drawing 205345. The 10-inch MSTB piping should only continue to valves 23MS64 and 23MS65.

This drawing contains an error in the MSTB piping configuration at location H-7. The "T" configuration shown on the upstream side of valve 23MS62 is incorrect. The pipe branch from the "T" to the continuation arrow referencing drawing 205345 (SH3), location G-11, should be deleted. The 10-inch piping on the upstream side of this T-connection should connect only to valve 23MS62. Additionally, the references in continuation arrows on the downstream side of valves 23MS64 and 23MS65 should both be revised to read "205345 (SH3), location G-10". The label above each arrow should read: "To Main Steam Reheat Coil in 23E Moisture Separator Reheater".

Piping from the continuation arrow at LR-205303 (SH6), location H-1, up to and including valves 23MS64 and 23MS65, is correctly shown as green and in scope for license renewal under 10 CFR 54.4(a)(3) and is subject to an aging management review. Piping located on the downstream side of valves 23MS64 and 23MS65 is not in scope for license renewal and is correctly shown as black.

Drawing LR-205303 (SH6) is revised to show the removal of the 10-inch pipe branch from the T-connection at location H-6 up to, and including, the continuation arrow at location H-7, which references drawing 205345 (SH3), location G-11.

#	License Renewal System	Drawing Number and Location	Continuation Issue
38	Emergency Diesel Generators and Auxiliary Systems	LR-205241(SH1-6) at E-5 and E-7	Section of (a)(1) piping continues "to booster rack" without a continuation drawing provided. Another section of (a)(1) piping ends without a continuation note.

PSEG Response:

The starting air booster racks identified on license renewal boundary drawing LR-205241 (SH1-6), locations E-5 and E-7, are pneumatic devices that use starting air acting against a piston to assist the diesel start. Booster racks are considered active components that are part of the diesel engine. Booster racks are in scope for license renewal but are not subject to an aging management review. There are no other components between the 1/4-inch tubing line shown on license renewal boundary drawing LR-205241 (SH1-6) and the booster racks.

The 1/4-inch tubing drain lines shown on license renewal boundary drawing LR-205241 (SH1-6), locations E-5 and E-7, are for potential moisture in the air lines from the respective diesel starting air receivers. These sections of tubing that end without continuation notes located immediately on the upstream side of the booster racks at locations E-5 and E-7 can be identified by their associated tubing drain valves as follows: valves 11DA112A and 12DA112A (LR-205241, SH1), 11DA112B and 12DA112B (LR-205241, SH2), 11DA112C and 12DA112C (LR-205241, SH3), 21DA112A and 22DA112A (LR-205241, SH4), 21DA112B and 22DA112B (LR-205241, SH5), and 21DA112C and 22DA112C (LR-205241, SH6). The 1/4-inch tubing drain line and valves are considered passive components which drain to the floor drains. There are no other components on the downstream side of the tubing drain valves. The 1/4-inch tubing drain lines and valves are correctly shown as green and in scope for license renewal and are subject to an aging management review under 10 CFR 54.4(a)(1).

2.3.3.3 Chilled Water System

The following RAIs were generated as part of the scoping and screening review for the Chilled Water System for the Salem Nuclear Generating Station LRA.

RAI 2.3.3.3-01

Background:

LRA section 2.1.5.1 states, "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 10 CFR 54.4(a)(1) criteria."

Issue:

License renewal drawing LR-205216 (SH1), locations H-5, F-4 and F-7, shows a change of scope classification from 10 CFR 54.4 (a)(1) to 10 CFR 54.4 (a)(2) right after the 1/8 " diameter orifices near valves 1CH28, 1CH6 and 1CH20. The piping class break is shown downstream of the 1/8" diameter orifices. The inclusion of safety-related piping in scope for (a)(2) would conflict with the scoping procedure described in LRA section 2.1.5.1.

Request:

Provide additional information to clarify the license renewal boundary for these locations.

PSEG Response

The Unit 1 license renewal boundary drawing LR-205216 (SH1), locations H-5, F-4, and F-7, correctly shows piping and components up to a 1/8-inch restricting orifice as green and in the scope of license renewal under 10 CFR 54.4(a)(1). The piping on the downstream side of the 1/8-inch restricting orifices through the drain lines, including the automatic vacuum relief valves, are shown as red and in the scope of license renewal under 10 CFR 54.4(a)(2). The license renewal scoping boundary is shown correctly as described above on LR-205216 (SH1). The restricting orifices provide adequate isolation of the safety-related Chilled Water System equipment from the nonsafety-related drain system. The drain lines on the downstream side of the restricting orifices are not required to perform any 10 CFR 54.4(a)(1) function and are, therefore, not in the scope of license renewal under 10 CFR 54.4(a)(1). The drawing is revised to show the piping classification break at the outlet of the orifice. The drain lines on the downstream side of the restricting orifices contain water and, therefore, are in the scope of license renewal under 10 CFR 54.4(a)(2) for potential spatial interaction.

RAI 2.3.3.3-02

Background

LRA section 2.1.5.1 states, "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 10 CFR 54.4(a)(1) criteria."

Issue

License renewal drawing LR-205216 (SH2), locations H-7, G-4 and F-8, shows a change of scope classification from 10 CFR 54.4 (a)(1) to 10 CFR 54.4 (a)(2) right after the 1/8 " diameter orifices near valves 2CH28, 2CH20 and 2CH6. The piping class break is shown downstream of the 1/8" diameter orifices. The inclusion of safety-related piping in scope for (a)(2) would conflict with the scoping procedure described in LRA section 2.1.5.1.

Request

Provide additional information to clarify the license renewal boundary for these locations.

PSEG Response

The Unit 2 license renewal boundary drawing LR-20516 (SH2), locations H-7, G-4, and F-8, correctly shows piping and components up to a 1/8-inch restricting orifice as green and in the scope of license renewal under 10 CFR 54.4(a)(1). The piping on the downstream side of the 1/8-inch restricting orifices through the drain lines, including the automatic vacuum relief valves, are shown as red and in the scope of license renewal under 10 CFR 54.4(a)(2). The license renewal scoping boundary is shown correctly as described above on LR-205216 (SH2). The restricting orifices provide adequate isolation of the safety-related Chilled Water System equipment from the nonsafety-related drain system. The drain lines on the downstream side of the restricting orifices are not required to perform any 10 CFR 54.4(a)(1) function and are, therefore, not in the scope of license renewal under 10 CFR 54.4(a)(1). The drawing is revised to show the piping classification break at the outlet of the orifice. The drain lines on the downstream side of the restricting orifices contain water and, therefore, are in the scope of license renewal under 10 CFR 54.4(a)(2) for potential spatial interaction.

RAI 2.3.3.3-03

Background:

License renewal rule 10 CFR 54.21(a)(1) requires applicants to list all components subject to an AMR. The staff confirms inclusion of all components subject to an AMR by reviewing component types within the license renewal boundary.

Issue:

License renewal drawing LR-205216 (SH1), location D/E-6 shows several lines (2"-1CH1143 and 2"-1CH1142) out of the No. 1 expansion tank (1CHE1) as in scope for license renewal for 10 CFR 54.4 (a)(1) whereas similar lines (2"-2CH1105 and 2"-2CH110) out of the No. 2 expansion tank (2CHE8) on license renewal drawing LR-205216 (SH2), location D/E-3 are shown within scope for 10 CFR 54.4(a)(2)

Request:

Provide additional information explaining why there is a difference in scope classification in similar lines.

PSEG Response

There are two level indicators on the No. 1 chilled water expansion tank. On the Unit 1 license renewal boundary drawing LR-205216 (SH1), location D/E-7, the first set of piping lines (2"-1CH1143 and 2"-1CH1142) for level indicator, LA4156/LC4156, are shown correctly as green in scope for license renewal under 10 CFR 54.4 (a)(1). The Unit 1 license renewal boundary drawing LR-205216 (SH1), location D/E-6, incorrectly shows the second set of piping lines for level indicator, LL6229, as green and in the scope of license renewal under 10 CFR 54.4(a)(1). The drawing is revised to show the piping lines (2"-1CH1150, 2"-1CH1151, and ¼"-1CH1156) and components on the downstream side of the root valves to the chilled water expansion tank level indicator, LL6229, as red and in the scope under 10 CFR 54.4(a)(2) for potential spatial interaction. The piping classification break line on the bottom tap is revised to extend to the upper tap piping line. This piping contains water and is located in the Auxiliary Building inner penetration area, which contains safety-related components. Therefore, the piping and components beyond the root valves to the chilled water expansion tank level indicator, LL6229, should show as red and in the scope of license renewal under 10 CFR 54.4(a)(2) for potential spatial interaction.

The Unit 1 piping lines (2"-1CH1149 and 2"-1CH1148), location D/E-6, up to and including the root valves (valves number 1CH153 and 1CH154) for the No. 1 chilled water expansion tank level indicator (LL6229), provide a pressure boundary for the safety-related Chilled Water System and are in the scope of license renewal under 10 CFR 54.4(a)(1), and are shown correctly as green on this license renewal boundary drawing. There are no additional component type, material, and environment combinations subject to aging management review due to this revision.

The Unit 2 license renewal boundary drawing, LR-205216 (SH2), location D/E-3, correctly shows the corresponding piping lines (2"-2CH1105 and 2"-2CH110[7]) and components for the No. 2 chiller expansion tank level indicators.

2.3.3.5 Component Cooling Water System

The following RAIs were generated as part of the scoping and screening review for the Component Cooling Water System for the Salem Nuclear Generating Station LRA.

RAI 2.3.3.5-01

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 piping connected to safety-related piping on the following drawings and locations could not be located.

Drawing and Sheet Number	Pipe Number and Location		
LR-205231 (SH1)	3"-1075/(C-1)	3"-1076/(D-1)	
LR-205331 (SH1)	3"-1083/(C-1)	3"-1082/(D-1)	
LR-205231 (SH3)	4"-1312/(E-2)	4"-1411/(E-3)	1"-1361/(C-7)
	1"-1362/(F-7)	1"-1376/(C-10)	1"-1394/(F-10)
LR-205331 (SH3)	4"-1346/(E-2)	4"-1340/(E-3)	1"-1344/(C-7)
	1"-1342/(F-7)	1"1345/(C-10)	1"-1343/(F-10)

Request

Provide additional information to locate the anchors for the pipelines listed above.

PSEG Response

The following table lists the locations where an anchor for nonsafety-related piping connected to safety-related piping on the following drawings could not be located. Each of these locations is assigned a letter. Following the table a brief narrative describing the location of the credited seismic anchors is provided.

Drawing and Sheet Number	Pipe Number and Location						
LR-205231 (SH1)	3"-1075/(C-1)	**A**	3"-1076/(D-1)	**B**			
LR-205331 (SH1)	3"-1083/(C-1)	**C**	3"-1082/(D-1)	**D**			
LR-205231 (SH3)	4"-1312/(E-2)	**E**	4"-1411/(E-3)	**F**	1"-1361/(C-7)		**G**
	1"-1362/(F-7)	**H**	1"-1376/(C-10)	**I**	1"-1394/(F-10)		**J**
LR-205331 (SH3)	4"-1346/(E-2)	**K**	4"-1340/(E-3)	**L**	1"-1344/(C-7)		**M**
	1"-1342/(F-7)	**N**	1"-1345/(C-10)	**O**	1"-1343/(F-10)		**P**

A. License renewal boundary drawing LR-205231 (SH1) shows nonsafety-related piping attached to safety-related piping at valve 1CC195 in location C-1. The nonsafety-related piping continues from license renewal boundary drawing LR-205246 (SH1) location H-2. The credited seismic anchor is located on pipe number 3"-1002 at the elevation 122'-0" floor on piping in the scope of license renewal. The floor penetration is approximately 12 inches on the downstream side of the flanged connection between the stainless steel piping and the polypropylene-lined carbon steel piping in location G-4 of license renewal boundary drawing LR-205246 (SH1).

B. License renewal boundary drawing LR-205231 (SH1) shows nonsafety-related piping attached to safety-related piping at valve 1CC210 in location D-1. The nonsafety-related piping continues from license renewal boundary drawing LR-205230 (SH1) location H-3. The credited seismic anchor is located on pipe number 3"-1043 approximately 12 feet on the upstream side of valve number 1WR114 in location H-2 of LR-205230 (SH1) on piping in the scope of license renewal.

C. License renewal boundary drawing LR-205331 (SH1) shows nonsafety-related piping attached to safety-related piping at valve 2CC195 in location C-1. The nonsafety-related piping continues to license renewal boundary drawing LR-205246 (SH2) location H-7. The credited seismic anchor is located on pipe number 3"-1080 at the elevation 122'-0" floor on piping in the scope of license renewal. The floor penetration is approximately 14 inches on the upstream side of valve number 2DR10 in location H-8 of license renewal boundary drawing LR-205246 (SH2).

D. License renewal boundary drawing LR-205331 (SH1) shows nonsafety-related piping attached to safety-related piping at valve 2CC210 in location C-1. The nonsafety-related piping continues to license renewal boundary drawing LR-205330 (SH1) location H-3. The credited seismic anchor is located on pipe number 3"-1042 approximately 20 feet on the upstream side of valve number 2WR114 in location H-2 of LR-205330 (SH1) on piping in the scope of license renewal.

E. The drain line, pipe number 4"-1312, from valve number 1CC112 to the end of the piping run at the containment sump is in scope for license renewal. The credited seismic anchor is located on the upstream side of the sump in location E-2 of license renewal boundary drawing LR-205231 (SH3) on piping in the scope of license renewal.

F. The drain line, pipe number 4"-1411, from valve number 1CC135 to the end of the piping run at the containment sump is in scope for license renewal. The credited seismic anchor is located on the upstream side of the sump in location E-3 of license renewal boundary drawing LR-205231 (SH3) on piping in the scope of license renewal.

G. The drain line, pipe number 1"-1361, from valve number 13CC129 to the end of the piping run at the containment sump is in scope for license renewal. The credited seismic anchor is located on the upstream side of the sump in location C-7 of license renewal boundary drawing LR-205231 (SH3) on piping in the scope of license renewal.

H. The drain line, pipe number 1"-1362, from valve number 11CC129 to the end of the piping run at the containment sump is in scope for license renewal. The credited seismic anchor is located on the upstream side of the sump in location F-7 of license renewal boundary drawing LR-205231 (SH3) on piping in the scope of license renewal.

I. The drain line, pipe number 1"-1376, from valve number 14CC129 to the end of the piping run at the containment sump is in scope for license renewal. The credited seismic anchor is located on the upstream side of the sump in location C-10 of license renewal boundary drawing LR-205231 (SH3) on piping in the scope of license renewal.

J. The drain line, pipe number 1"-1394, from valve number 12CC129 to the end of the piping run at the containment sump is in scope for license renewal. The credited seismic anchor is located on the upstream side of the sump in location F-10 of license renewal boundary drawing LR-205231 (SH3) on piping in the scope of license renewal.

K. The drain line, pipe number 4"-1346, from valve number 2CC112 to the end of the piping run at the containment sump is in scope for license renewal. The credited seismic anchor is located on the upstream side of the sump in location E-2 of license renewal boundary drawing LR-205331 (SH3) on piping in the scope of license renewal.

L. The drain line, pipe number 4"-1340, from valve number 2CC135 to the end of the piping run at the containment sump is in scope for license renewal. The credited seismic anchor is located on the upstream side of the sump in location E-3 of license renewal boundary drawing LR-205331 (SH3) on piping in the scope of license renewal.

M. The drain line, pipe number 1"-1344, from valve number 23CC129 to the end of the piping run at the containment sump is in scope for license renewal. The credited seismic anchor is located on the upstream side of the sump in location C-7 of license renewal boundary drawing LR-205331 (SH3) on piping in the scope of license renewal.

N. The drain line, pipe number 1"-1342, from valve number 21CC129 to the end of the piping run at the containment sump is in scope for license renewal. The credited seismic anchor is located on the upstream side of the sump in location F-7 of license renewal boundary drawing LR-205331 (SH3) on piping in the scope of license renewal.

O. The drain line, pipe number 1"-1345, from valve number 24CC129 to the end of the piping run at the containment sump is in scope for license renewal. There is no seismic anchor located on the nonsafety-related piping connected to the safety-related piping at valve number 24CC129. The entire run of piping is in the scope of license renewal out to the free end of the nonsafety-related piping.

P. The drain line, pipe number 1"-1343, from valve number 22CC129 to the end of the piping run at the containment sump is in scope for license renewal. The credited seismic anchor is located on the upstream side of the sump in location F-10 of license renewal boundary drawing LR-205331 (SH3) on piping in the scope of license renewal.

RAI 2.3.3.5-02

Background:

License renewal rule 10 CFR 54.21(a)(1) requires applicants to list all components subject to an AMR. The staff confirms inclusion of all components subject to an AMR by reviewing component types within the license renewal boundary.

Issue:

Drawing LR-205229 (SH1), location F-1, shows a section of pneumatic piping (1063 B-N) in scope for 10 CFR 54.4 (a)(2) that continues to drawing LR-205231(SH2) and LR-205315 (Sh1 . The continuation on drawing LR-205231 (SH2), location G-4, is not within scope.

Request:

Provide additional information to clarify the scoping classification of the pneumatic piping sections associated with the Component Cooling System.

PSEG Response

The Unit 1 license renewal boundary drawing, LR-205229 (SH1), location F-1, shows the pneumatic tubing incorrectly as red and in the scope of license renewal under 10 CFR 54.4 (a)(2). The pneumatic tubing (1063 B-N) from the Flow Indicating Controller (FIC-307), as shown on license renewal boundary drawing LR-205229 (SH1), location F-1, provides pneumatic supply air to the air-operated valve (1CC196) on the downstream side of the Boric Acid Evaporator Condenser, as shown on license renewal boundary drawing LR-205231 (SH2), location G-4. The drawing is revised to show this pneumatic tubing as black and not in scope for license renewal. This pneumatic tubing is not subject to aging management review. These corresponding lines are shown correctly on the Unit 2 license renewal boundary drawing, LR-205329 (SH1). There are no changes in component type, material, and environment combinations subject to aging management review due to this revision.

2.3.3.20 Radioactive Drain System

The following RAIs were generated as part of the scoping and screening review for the Radioactive Drain System for the Salem Nuclear Generating Station LRA.

RAI 2.3.3.20-01

Background:

LRA Section 2.3.3.20 states in part "...The scoping boundary also includes the reactor coolant pump oil lift pump oil and water separators and associated piping and components."

Issue

Drawing LR-205227 (SH3) shows the RCP lift pumps within scope for 10 CFR 54.4(a)(1) or (a)(3). However, the connected water separators and piping to trench 1WDE17 are not within scope. Drawing LR-205327 (SH3) does not show the RCP oil collection system, water separators and associated piping and components within scope

Request:

Provide additional information to clarify why these nonsafety-related piping and components that contain water/oil, and are located inside structures that contain safety-related SSCs, are not included within scope for potential spatial interaction under criterion 10 CFR 54.4(a)(2).

PSEG Response

The Unit 1 license renewal boundary drawing, LR-205227 (SH3), incorrectly shows the Reactor Coolant Pumps (RCP) Oil Lift Pumps' Oil & Water Separators and piping leading to Trench 1WDE17 as black and not in the scope of license renewal. The drawing is revised to show the RCP Oil Lift Pumps' Oil & Water Separators and piping leading to Trench 1WDE17, on license renewal boundary drawing LR-205227 (SH3), as green and in the scope of license renewal under 10 CFR 54.4(a)(3), specifically for Fire Protection.

The Unit 2 license renewal boundary drawing, LR-205327 (SH3), incorrectly shows the RCP Oil Lift Pumps' Oil Collection system consisting of the enclosures, the Oil & Water Separators, and associated piping leading to Trench 2WDE17 as black and not in the scope of license renewal. The drawing is revised to show these components of the RCP Oil Lift Pumps' Oil Collection system, on license renewal boundary drawing LR-205327 (SH3), as green and in the scope of license renewal under 10 CFR 54.4(a)(3), specifically for Fire Protection.

The intended function for the Tanks (Reactor Coolant Pump Oil Collection Enclosure), including the Oil & Water Separators, has been corrected from Leakage Boundary to Pressure Boundary.

As a result of this RAI response, LRA Table 2.3.3-12 is revised as shown below. New text is indicated in bolded-italic font; deleted text is shown with strike-through format.

Table 2.3.3-12 **Fire Protection System**
Components Subject to Aging Management Review

Component Type	Intended Function
Tanks (Reactor Coolant Pump Oil Collection Enclosure ***and Oil & Water Separator***)	~~Leakage~~ ***Pressure*** Boundary

Additionally as part of this RAI response, LRA Table 3.3.2-12 is revised as shown below. New text is indicated in bolded-italic font; deleted text is shown with strike-through format.

Table 3.3.2-12 Fire Protection System

Component Type	Intended Function	Material	Environment	Aging Effect Requiring Management	Aging Management Programs	NUREG-1801 Vol. 2 Item	Table 1 Item	Notes
Tanks (Reactor Coolant Pump Oil Collection Enclosure ***and Oil & Water Separator***)	~~Leakage~~ ***Pressure*** Boundary	Carbon Steel	Air - Indoor (External)	Loss of Material/General Corrosion	External Surfaces Monitoring	VII.I-8	3.3.1-58	A
Tanks (Reactor Coolant Pump Oil Collection Enclosure ***and Oil & Water Separator***)	~~Leakage~~ ***Pressure*** Boundary	Carbon Steel	Air with Borated Water Leakage (External)	Loss of Material/Boric Acid Corrosion	Boric Acid Corrosion	VII.I-10	3.3.1-89	A
Tanks (Reactor Coolant Pump Oil Collection Enclosure ***and Oil & Water Separator***)	~~Leakage~~ ***Pressure*** Boundary	Carbon Steel	Lubricating Oil (Internal)	Loss of Material/General, Pitting and Crevice Corrosion	Lubricating Oil Analysis	VII.G-27	3.3.1-16	B
Tanks (Reactor Coolant Pump Oil Collection Enclosure ***and Oil & Water Separator***)	~~Leakage~~ ***Pressure*** Boundary	Carbon Steel	Lubricating Oil (Internal)	Loss of Material/General, Pitting and Crevice Corrosion	One-Time Inspection	VII.G-27	3.3.1-16	A

RAI 2.3.3.20-02

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

Drawing LR-205330 (SH1), location A-4, shows a 10 CFR 54.4(a)(2) continuation from the No 21 and 22 primary water make-up pumps to LR-205327 (SH1), (C-2). The continuation on LR-205327 (SH1), (C-2) is shown as not within scope for license renewal.

Drawing LR-205327 (SH1), location C-2, shows a 10 CFR 54.4(a)(2) continuation from the No 21 & 22 waste monitor tanks to LR-205339 (SH1), (E-11). The continuation on LR-205339 (SH1), (E-11) is shown as not within scope for license renewal.

Drawing LR-205327 (SH1), location C-2, shows a 10 CFR 54.4(a)(2) continuation from 205330 (SH1), (A-4). The continuation on drawing LR-205327 (SH1) is shown as not within scope for license renewal.

Drawing LR-205327 (SH1), location C-2, shows a 10 CFR 54.4(a)(2) continuation from 205339 (SH1), (E-11). The continuation on drawing LR-205327 (SH1) is shown as not within scope for license renewal.

Request:

Provide additional information to clarify the scoping classification for this pipe section.

PSEG Response

The Unit 2 license renewal boundary drawing, LR-205330 (SH1), location A-4, correctly shows the continuation from the No. 21 and No. 22 primary water make-up pumps to the drain header as red and in the scope of license renewal under 10 CFR 54.4(a)(2). The continuation on license renewal boundary drawing, LR-205327 (SH1), location C-2, incorrectly shows the continuing piping, TT-14.2, as black and not in the scope of license renewal. The continuation on license renewal boundary drawing, LR-205327 (SH1), location C-2, is revised to show the piping as red and in the scope of license renewal under 10 CFR 54.4(a)(2), because the 2-inch line contains liquid and has the potential for spatial interaction. This addresses the first and third issues identified above.

The Unit 2 license renewal boundary drawing, LR-205339 (SH1), location E-11, correctly shows the continuation from the No. 21 and No. 22 waste monitor tanks to the drain header as black and not in the scope of license renewal under 10 CFR 54.4(a)(2). The continuation on license renewal boundary drawing, LR-205327 (SH1), location C-2, 2-inch line SS-14.8, is shown incorrectly as red and in the scope for license renewal 10 CFR 54.4(a)(2). The drawing is revised to show this line as black and not in the scope of license renewal, since the No. 21 and 22 waste monitor tanks are abandoned in place

and drained. This line is not subject to aging management review. This addresses the second and fourth issues identified above.

There are no additional component type, material, and environment combinations subject to aging management review due to this revision. The two subject drain line (TT-14.2 and SS-14.8) color designations on Unit 2 license renewal boundary drawing, LR-205327 (SH1), location C-2, were reversed. The two similar drain lines (TT-13.8 and SS-13.2) on the Unit 1 license renewal boundary drawing, LR-205227 (SH1), location C-1, are shown correctly.

RAI 2.3.3.20-03

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

Drawing LR-205339 (SH2), location F-7, shows 2"-1204 from the P.W.S.T. as within scope for 10 CFR 54.4(a)(1) or (a)(3). This line is continued from drawing LR-205330 (SH1), (A-7). The continuation on drawing LR-205330 (SH1), (A-7) is within scope for 10 CFR 54.4(a)(2).

Drawing LR-205330 (SH1), location A-7, shows line 2WL1192 as within scope for 10 CFR 54.4(a)(2). When continued on LR-205330 (SH2), (F-7) this line is within scope for 10 CFR 54.4(a)(1) or (a)(3).

Request:

Provide additional information to clarify the scoping classification for this pipe section.

PSEG Response

The Unit 2 license renewal boundary drawing, LR-205339 (SH2), location F-7, showing the 2"-1192 and 2"-1204 drain lines from the Primary Water Storage Tank (PWST), are shown incorrectly as green and in the scope of license renewal under 10 CFR 54.4(a)(1) or (a)(3). The 2"-1192 and 2"-1204 drain lines from the PWST on license renewal boundary drawing, LR-205339 (SH2), location F-7, are within the leakage boundary of the license renewal Radioactive Drain System. The drawing is revised to show these drain lines as red and in the scope of license renewal under 10 CFR 54.4(a)(2) for potential spatial interaction. The originating radioactive drain line from the PWST, 2WL1192, on license renewal boundary drawing LR-205330 (SH1), location A-7, is shown correctly as red and in the scope of license renewal under 10 CFR 54.4(a)(2).

In addition, the RWST drain line 2"-2WL1192, on the downstream side of valve 2SJ115, is incorrectly shown on license renewal boundary drawing LR-205334 (SH1), location E-4. The drain line continuation to drawing LR-205339 (SH2), location F-7, is within the leakage boundary of the license renewal Radioactive Drain System. The drawing is revised to show the drain line as red and in the scope of license renewal under 10 CFR 54.4(a)(2). Additionally, the drawing is revised to show valve 2WL901, and lines 2"-1192, 2"-1204, and ¾"-1075 up to the drain header 6"-1134 on drawing LR-205339 (SH2), location F-7, as red and in the scope of license renewal under 10 CFR 54.4(a)(2) for potential spatial interaction.

There are no additional component type, material, and environment combinations subject to aging management review due to this revision. The Unit 1 license renewal boundary drawings for the corresponding lines and components are shown correctly.

2.3.3.21 Radwaste System

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

RAI 2.3.3.21-01

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:

Drawing LR-205229 (SH1), location D-8, shows a pneumatic line (1065A-N) within scope for 10 CFR 54.4 (a)(2) that continues to Drawing LR-205315 (SH1). This line is not within scope on the continuation drawing LR-205315 (SH1), location H-11.

Drawing LR-205229 (SH1), location G-8, shows a pneumatic line (1078 A-N) within scope for 10 CFR 54.4 (a)(2) that continues to Drawing 205230 (SH1). This line is not within scope on the continuation drawing LR-205230 (SH1), location H-3.

Request:

Provide additional information to clarify the scoping classification for this pipe section.

PSEG Response

The Unit 1 license renewal boundary drawing LR-205229 (SH1), locations D/E-5/6/7/8, incorrectly shows the pneumatic tubing (1065 A-N) at the No. 1 Boric Acid Evaporator Pressure Transmitter (PT-316) from license renewal boundary drawing LR-205315 (SH1), location H-11, as red and in the scope of license renewal under 10 CFR 54.4(a)(2). The pneumatic tubing does not have the potential for spatial interaction because it does not contain water, steam, or oil and does not provide structural support to safety-related components. Therefore, the pneumatic tubing is not in the scope of license renewal under 10 CFR 54.4(a)(2), and is not subject to aging management review. License renewal boundary drawing LR-205229 (SH1) locations D/E-5/6/7/8 is revised to show the pneumatic tubing from LR-205315 to PT-316 as black and not in the scope of license renewal under 10 CFR 54.4.

License renewal boundary drawing LR-205229 (SH1), locations G/H-8/9, incorrectly shows the pneumatic tubing (1079 A-N) and instrumentation (TA-304, BET-78, TIC-304, BET-81, and BET-75) from the Boric Acid Feed Preheater Outlet Temperature Transmitter (TT-304) to license renewal boundary drawing LR-205315 (SH1), location G-8, as red and in the scope of license renewal under 10 CFR 54.4(a)(2). The pneumatic tubing and instrumentation does not have the potential for spatial interaction because it does not contain water, steam, or oil and does not provide structural support to safety-related components. Therefore, the pneumatic tubing and instrumentation is not in the scope of license renewal under 10 CFR 54.4(a)(2), and not subject to aging

management review. License renewal boundary drawing LR-205229 (SH1), location G/H-8/9, is revised to show the pneumatic tubing and instrumentation from TT-304 to LR-205315 as black and not in the scope of license renewal under 10 CFR 54.4.

There are no additional component type, material, and environment combinations subject to aging management review due to this revision. The Unit 2 license renewal boundary drawings for the corresponding pneumatic tubing and instrumentation are shown correctly.

RAI 2.3.3.22 Sampling System

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

RAI 2.3.3.22-01

Background:

License renewal rule 10 CFR 54.21(a)(1) requires applicants to list all components subject to an AMR. The staff confirms inclusion of all components subject to an AMR by reviewing component types within the license renewal boundary.

Issue:

Unit 1 drawing LR-205244 (SH1), location F-5, shows 3/8"-1042 H-N as within scope for 10 CFR 54.4(a)(2). Connected at three-way valve 1SS204 is a ½" O.D. tubing, 6714 Y-N, which is shown as not in scope for license renewal.

Unit 2 drawing LR-205344 (SH1), location F-5, shows 3/8"-1042 H-N as within scope for 10 CFR 54.4(a)(2). Connected at three-way valve 2SS204 is a ½" O.D. tubing, 6714 Y-N, which is shown as not within scope for license renewal.

In both of these cases, two lines exiting the three way valve are in scope for 10 CFR 54.4(a)(2) while the third is not.

Request:

Provide additional information to clarify the scoping classification of this pipe section.

PSEG Response

The Unit 1 license renewal boundary drawing LR-205244 (SH1), location F-5, correctly shows 3/8"-1042 H-N tubing as in the scope of 10 CFR 54.4(a)(2). Connected at the three-way valve 1SS204 is a 1/2-inch tubing, 6714 Y-N, which is shown as not in scope for license renewal. The Unit 1 license renewal boundary drawing, LR-205244 (SH1), is correctly scoped as shown. The tubing designated as 6714 Y-N extends from the three-way valve, 1SS204, to drawing 205244 (SH3), location D-6. Valve 1SS204 allowed liquid samples from the Nos. 11 and 12 Residual Heat Removal (RHR) heat exchanger outlets to be forwarded to the Salem Post Accident Sampling System (PASS). The Salem Unit 1 PASS has been abandoned in place since the containment sample lines were cut and capped in 2005. The port of the three-way valve connected to tubing line 6714 Y-N is kept in the closed position providing isolation from the abandoned PASS equipment. The tubing designated as 6714 Y-N does not contain water, steam, or oil and does not provide structural support to safety-related components and, therefore, is not in the scope of license renewal under 10 CFR 54.4(a)(2).

The Unit 2 license renewal boundary drawing LR-205344 (SH1) location F-5, correctly shows 3/8"-1042 H-N tubing as in the scope of 10 CFR 54.4(a)(2). Connected at the three-way valve 2SS204 is a 1/2-inch tubing, 6714 Y-N, which is shown as not in the scope of license renewal. The Unit 2 license renewal boundary drawing, LR-205344

(SH1), is correctly scoped as shown. The tubing designated as 6714 Y-N extends from the three-way valve, 2SS204, to drawing 205244 (SH3) location D-6. Valve 2SS204 allowed liquid samples from the Nos. 21 and 22 RHR heat exchanger outlets to be forwarded to the PASS. The Salem Unit 2 PASS has been abandoned in place since the containment sample lines were cut and capped in 2006. The port of the three-way valve connected to tubing line 6714 Y-N is kept in the closed position providing isolation from the abandoned PASS equipment. The tubing designated as 6714 Y-N does not contain water, steam, or oil and does not provide structural support to safety-related components and, therefore, is not in the scope of license renewal under 10 CFR 54.4(a)(2).

RAI 2.3.3.23 Service Water System

The following RAIs were generated as part of the scoping and screening review for the Service Water System for the Salem Nuclear Generating Station LRA.

RAI 2.3.3.23-01

Background:

License renewal rule 10 CFR 54.21(a)(1) requires applicants to list all components subject to an AMR. The staff confirms inclusion of all components subject to an AMR by reviewing component types within the license renewal boundary.

Issue:

License renewal drawing LR-205212 (SH1), location A-7, shows a section 10 CFR 54.4 (a)(1) 6" service water line continuing to drawing LR-205309 (SH3), location E-9, where the same line continuation is not in scope.

Request:

Provide additional information to clarify the scoping classification of this pipe section.

PSEG Response

The license renewal boundary drawing LR-205212 (SH1), location A-7, correctly shows a section of 6-inch service water piping as green and in the scope of license renewal under 10 CFR 54.4(a)(2) for functional support, and continuing to drawing LR-205309 (SH3), location E-9. The Unit 2 License renewal boundary drawing LR-205309 (SH3), location E-9, incorrectly shows the corresponding continuation arrow, and attached piping, originating from LR-205212 (SH1), location A-7, as black and not in the scope of license renewal under 10 CFR 54.4. This piping is relied upon to provide a flow path from the service water discharge from the station air compressor heat exchangers to the circulating water river discharge header.

The Unit 2 license renewal boundary drawing LR-205309 (SH3) is revised to show the flow path from the continuation arrow in location E-9 to the turbine area floor penetration in location C-10 as green and in the scope of license renewal under 10 CFR 54.4(a)(2). The drawing revision includes changing the color of the continuation arrow, the attached 6-inch piping, vent line number 1"-1039, pipe number 12"-1038, and pipe number 84"-1003 from the tee with pipe number 12"-1038 to the turbine area floor penetration from black to green. Also included in the revision is changing the color of valve number 2ST13, valve number 21CW28 and the flange in location E-10 from black to green. A system boundary flag is added in location D-10, at the tee of pipe number 12"-1038 and pipe number 84"-1003, separating the Service Water System piping from the Circulating Water System piping. Note 3 is added in location D-10, at the tee of pipe number 12"-1038 and pipe number 84"-1003.

The service water discharge from the station air compressor heat exchangers to the circulating water river discharge header is shown correctly on the corresponding Unit 1 license renewal boundary drawing, LR-205209 (SH1). There are no new material,

environment, and component type combinations that need to be evaluated for aging management due to this revision.

In addition to the drawing revision discussed above, the third System Intended Function listed in LRA Section 2.3.3-23, on page 2.3-197, is revised for clarity as shown below. New text is shown in bolded-italic font.

> 3. Resist nonsafety-related SSC failure that could prevent satisfactory accomplishment of a safety-related function. The Service Water System contains nonsafety-related components that provide structural support and water-filled lines, which have the potential for spatial interactions (spray or leakage) with safety-related equipment. ***Also the Service Water System provides cooling water to the station air compressor heat exchangers. The station air compressors are relied upon to provide functional support for containment penetration cooling to prevent degradation of containment concrete structure.*** *10 CFR 54.4(a)(2)*

RAI 2.3.3.23-02

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:

Unit 1 drawing LR-205239 (SH1), location H-2, shows 2"-1SW1460 as within scope for 10 CFR 54.4(a)(1). Connected to 2"-1SW1460 are 10 CFR 54.4(a)(2) 2"-1295, 2"-1292, 2"-1293 and 3/4"-1291 lines.

Unit 2 drawing LR-205339 (SH1), location H-2, shows 2"-1053 as within scope for 10 CFR 54.4(a)(1). Connected to 2"-1053 are 10 CFR 54.4(a)(2) 2"-1WL1295, 2"-1074, 3/4"-1318 lines.

The (a)(2) scoping boundary ends before these lines reach the waste monitor tanks or pumps. No anchor point was identified between the end of the (a)(2) scoping boundary and the safety-nonsafety interface.

Request:

Provide additional information to locate the seismic anchors or anchored components between the end of the (a)(2) scoping boundary and the safety-nonsafety interface.

PSEG Response

The Unit 1 license renewal boundary drawing LR-205239 (SH1), location H-2, shows piping line 2"-1SW1460 as in scope for 10 CFR 54.4(a)(1). Connected to piping line 2"-1SW1460 are piping lines 2"-1295, 2"-1292, 2"-1293 and ¾"-1291 lines, which are shown as red and in scope for potential spatial interaction and structural support under 10 CFR 54.4(a)(2). The credited seismic anchor under 10 CFR 54.4(a)(2) for piping line 2"-1295 is located approximately 6.5 feet towards the Unit 2 Waste Disposal Liquid system from valve number 1WL115 on piping in scope for license renewal. The credited seismic anchor under the 10 CFR 54.4(a)(2) for piping line 2"-1292 is located at valve number 1WL51 on piping in scope for license renewal. The credited seismic anchor under the 10 CFR 54.4(a)(2) for piping line 2"-1293 is located approximately 13.5 feet on the downstream side of the tee with piping line number 2"-1294 on piping in scope for license renewal.

Unit 2 license renewal boundary drawing LR-205339 (SH1), location H-2, shows 2"-1053 as green and in scope for 10 CFR 54.4(a)(1). Connected to piping line 2"-1053 are piping lines, 2"-1WL1295, 2"-1074, ¾"-1318, which are shown as red and in scope for potential spatial interaction and structural support under 10 CFR 54.4(a)(2). The credited seismic anchor under 10 CFR 54.4(a)(2) for piping line 2"-1WL1295 is located approximately 10 feet towards the Unit 1 Waste Disposal Liquid system from valve number 2WL115 on piping in scope for license renewal. The credited seismic anchor under 10 CFR 54.4(a)(2) for piping line 2"-1074 is located at valve number 2WL51 on

piping in scope for license renewal. Piping line ¾"-1318 is not required to provide structural support to the safety-related piping and components.

RAI 2.3.3.23-03

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:

Unit 1 drawing LR-205242 (SH1), location E-6, shows a continuation (1" S.L.) from LR-205209 (SH4), (H-1) as within the scope for 10 CFR 54.4 (a)(2). This line is connected to a 3" service water line within scope for 10 CFR 54.4 (a)(1). The seismic anchor or anchored component for the 1" (a)(2) line could not be located.

Unit 2 drawing LR-205342 (SH1), location C-8, shows a continuation (1" S.L.) from LR-205209 (SH4), (H-1) as within the scope for 10 CFR 54.4 (a)(2). This line is connected to a 1" service water line within scope for 10 CFR 54.4 (a)(1). The seismic anchor or anchored component for the 1" (a)(2) line could not be located.

Request:

Provide additional information to locate the seismic anchor or anchored component between the end of the (a)(2) scoping boundary and the safety-nonsafety interface.

PSEG Response

The Unit 1 license renewal boundary drawing LR-205242 (SH1), location E-6, shows a continuation (1" S.L.) from license renewal boundary drawing LR-205209 (SH4), (H-1) as in the scope of 10 CFR 54.4 (a)(2). This piping is connected to a 3-inch service water line in the scope of 10 CFR 54.4 (a)(1). The credited seismic anchor for the 1-inch Saran-lined (S.L.) service water chlorination injection piping is located at the tee with the branch line to the future up-front chlorinator, approximately 4 inches on the upstream side of valve 1CL80. The credited seismic anchor is located between valve number 1CL80 and valve number 1CL98, shown in location E-6 of license renewal boundary drawing LR-205242 (SH1), on piping in the scope of license renewal.

The Unit 2 license renewal boundary drawing LR-205342 (SH1), location C-8, shows a continuation (1" S.L.) from license renewal boundary drawing LR-205209 (SH4), (H-1) as in the scope of 10 CFR 54.4 (a)(2). This piping is connected to a 1-inch service water line in the scope of 10 CFR 54.4 (a)(1). The credited seismic anchor is physically located approximately 4 inches on the upstream side of valve number 21CL70 between valve number 21CL70, valve number 21CL69, and valve number 21CL79 on piping in the scope of license renewal. The piping where the credited seismic anchor is located is shown on license renewal boundary drawing LR-205209 (SH4), location E-1.

RAI 2.3.3.23-04

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-205242 (SH3), location B-4, shows a ¾" 10 CFR 54.4 (a)(1) line connected to a 10 CFR 54.4 (a)(2) line (7003 Y-N). The seismic anchor or anchored component for the (a)(2) line could not be located.

Request:

Provide additional information to locate the seismic anchors or anchored components between the end of the (a)(2) scoping boundary and the safety-nonsafety interface.

PSEG Response

There is no credited seismic anchor or anchored component between the end of the (a)(2) scoping boundary and the safety-nonsafety interface. The safety-nonsafety interface is located at the chlorine analyzer sample root valve, valve number 11SW429, on a 3/4-inch sample line off of the 24-inch service water inlet to the No. 11 Component Cooling Heat Exchanger. Beyond the safety-nonsafety interface is non-seismic instrumentation tubing to the chlorine analyzer (XA-14749), shown in location A-4. The non-seismic instrumentation tubing to the chlorine analyzer is in scope for license renewal for 10 CFR 54.4(a)(2), spatial interaction, until the instrument line leaves the Auxiliary Building and enters the Service Building (turbine area) which contains no safety-related components. Since there are no safety-related components in the turbine area of the Service Building, spatial interaction is not a concern. The instrument tubing line is supported in an instrument tray. The non-seismic instrumentation tubing is not in scope of license renewal for structural support because tubing is not credited to provide structural support to safety-related piping and components.

RAI 2.3.3.25 Spent Fuel Cooling System

The following RAI was generated as part of the scoping and screening review for the Spent Fuel Cooling System for the Salem Nuclear Generating Station LRA.

RAI 2.3.3.25-01

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 piping connected to safety-related piping on the following drawings and locations could not be located.

Drawing and Sheet Number	Pipe Number and Location		
LR-205233(SH1)	3"-1074/(H-2)	3"-1031/(E-2)	2"-1043/(A-3)
LR-205333(SH1)	3"-1013/(H-2)	3"-1140/(E-2)	2"-1097/(A-3)

Request:

For the above lines, provide additional information to locate the seismic anchors or anchored components between the end of the (a)(2) scoping boundary and the safety-nonsafety interface.

PSEG Response

The following table lists the locations where an anchor for nonsafety-related piping connected to safety-related piping on the following drawings could not be located. Each of these locations is assigned a letter. Following the table a brief narrative describing the location of the credited seismic anchors is provided.

Drawing and Sheet Number	Pipe Number and Location					
LR-205233(SH1)	3"-1074/(H-2)	**A**	3"-1031/(E-2)	**B**	2"-1043/(A-3)	**C**
LR-205333(SH1)	3"-1013/(H-2)	**D**	3"-1140/(E-2)	**E**	2"-1097/(A-3)	**F**

A. Pipe number 3"-1074 is anchored at the No. 1 Spent Fuel Pit Filter, 1SFE4, in location G-1 of drawing LR-205233 (SH1) on piping in the scope of license renewal.

B. Pipe number 3"-1031 connects at a tee with pipe number 3"-1065. Two seismic anchors on the attached nonsafety-related piping are credited to support the safety-related piping. The piping run is anchored both on the upstream side and on the downstream side of the tee between pipe number 3"-1031 and 3"-1065.

Upstream of the tee between pipe number 3"-1031 and 3"-1065, pipe number 3"-1065 connects with pipe number 2"-1064. The credited seismic anchor is located on pipe number 2"-1064 at the tee in location C-1 of drawing LR-205233 (SH1) on piping in the scope of license renewal.

The credited seismic anchor on pipe number 3"-1065 on the downstream side of the tee with pipe number 3"-1031 is located on the upstream side of the tee with drain line 3/4"-1069 in location F-1 of drawing LR-205233 (SH1) on piping in the scope of license renewal.

C. Pipe number 2"-1043 is anchored at the No. 1 Refueling Water Purification Filter, 1SFE3, in location B-3 of drawing LR-205233 (SH1) on piping in the scope of license renewal.

D. Pipe number 3"-1013 is anchored at the No. 2 Spent Fuel Pit Filter, 2SFE4, in location G-1 of drawing LR-205333 (SH1) on piping in the scope of license renewal.

E. Pipe number 3"-1140 connects at a tee with pipe number 3"-1010. Two seismic anchors on the attached nonsafety-related piping are credited to support the safety-related piping. The piping run is anchored both on the upstream side and on the downstream side of the tee between pipe number 3"-1140 and 3"-1010.

The credited seismic anchor on pipe number 3"-1010 on the upstream side of the tee with pipe number 3"-1140 is located at the tee between pipe number 2"-1148 and pipe number 2"-1009 in location C-1 of drawing LR-205333 Sheet 1 on piping in the scope of license renewal.

The credited seismic anchor on pipe number 3"-1010 on the downstream side of the tee with pipe number 3"-1140 is located on the upstream side of the tee with drain line 3/4"-1115 in location F-1 of drawing LR-205333 (SH1) on piping in the scope of license renewal.

F. Pipe number 2"-1097 is anchored at the No. 2 Refueling Water Purification Filter, 2SFE3, in location B-3 of drawing LR-205333 (SH1) on piping in the scope of license renewal.