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

July 12, 2011

Mr. G. T. Powell, Vice President
Technical Support and Oversight
STP Nuclear Operating Company
P. O. Box 289
Wadsworth, TX 77483

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION FOR SOUTH TEXAS PROJECT, UNITS 1 AND 2 LICENSE RENEWAL APPLICATION - SCOPING AND SCREENING BALANCE OF PLANT (TAC NOS. ME4936 AND ME4937)

Dear Mr. Powell:

By letter dated October 25, 2010, the South Texas Project Nuclear Operating Company (STPNOC or the applicant) submitted an application pursuant to Title 10 of the *Code of Federal Regulations* (10 CFR) Part 54, to renew operating licenses NPF-76, NPF-80 for South Texas Project, Units 1 and 2 (STP), for review by the U.S. Nuclear Regulatory Commission (NRC or the staff). The staff is reviewing the information contained in the license renewal application and has identified, in the enclosure, areas where additional information is needed to complete the review.

These requests for additional information were discussed with Arden Aldridge, and a mutually agreeable date for the response is within 30 days from the date of this letter. If you have any questions, please contact me by telephone, 301-415-3873, or by e-mail, John.Daily@nrc.gov.

Sincerely,

John W. Daily, Senior Project Manager
Projects Branch 1
Division of License Renewal
Office of Nuclear Reactor Regulation

Docket Nos. 50-498 and 50-499

Enclosure:
As stated

cc w/encl: Listserv

REQUEST FOR ADDITIONAL INFORMATION FOR
SOUTH TEXAS PROJECT UNITS 1 AND 2 LICENSE RENEWAL APPLICATION - SCOPING AND SCREENING BALANCE OF PLANT
(TAC NOS. ME4936 AND ME4937)

Plant-Level Scoping Results

RAI 2.2-1

Background:

The license renewal scoping criteria were described in License Renewal Application (LRA) Section 2.1. LRA Section 2.2, Table 2.2-1, "Scoping Results," provides the results of applying the license renewal scoping criteria to the systems, structures, and components.

Issue:

The following system, as described in the Updated Final Safety Analysis Report (UFSAR), could not be located in LRA Table 2.2-1.

UFSAR Section	System
7.5.7 Emergency Response Facilities Data Acquisition and Display System (ERFDADS)	Emergency Response Facilities Data Acquisition and Display System

Request:

The staff requests that the applicant provide the basis for excluding the "Emergency Response Facilities Data Acquisition and Display System" from Table 2.2-1.

Auxiliary Systems Requests for Additional Information

RAI 2.3-01

Background:

LRA Section 2.1 describes the applicant's scoping methodology, which specifies how systems or components were determined to be included in scope of license renewal. The staff confirms the inclusion of all components subject to aging management review (AMR) by reviewing the results of the screening of components within the license renewal boundary.

Issue:

Continuation Issue: For the drawing locations identified in the table below, the continuation of piping in scope for license renewal could not be found.

ENCLOSURE

LRA Section/Drawing Number & Location	Continuation Piping/Drawing Number
2.3.4.4 Demineralizer Water (Make-up) System	
LR-STP-DW-5S1999F05034 #1 and #2 coordinates E-6	2"DW1503WD9 / 2"DW2503WD9 continuing to drawing 9B00143 coordinates D-4. The continuation drawing (9B00143) could not be found in the information provided.
LRA Section/Drawing Number & Location	**Continuation Piping/Drawing Number**
2.3.3.27 Miscellaneous Systems in scope ONLY for Criterion 10 CFR 54.4(a)(2)	
LR-STP-NL-6S190F00009 coordinates H-2	2"NL0038WN7 line continuation from drawing 0F00015 (not provided).
LR-STP-OC-6T249F00033 #1 and #2 coordinates G-3	4"WL1165WG7/4"WL2165WG7 continuations from drawing 9F90001 (Liquid Radwaste System).
LR-STP-PW-9M889B0148 #1 and #2, under "Demineralized Water P&ID"	2" line from drawing 9F5034.
LR-STP-PW-9Q130F00013 coordinates F-4 and F-7	1"PW1086WU9, 1"PW1087WU9, 1"PW1088WU9, 1"PW2086WU9, 1"PW2087WU9, 1"PW2088WU9 continuing to drawing 9B0171
LR-STP-MD-6T169F00055 #1 and #2 coordinates A-8	1"MD1235HC9/1"MD2235HC9 lines from drawing 9F00024 (Main Steam Drain from Aux FPT).

Request:

The staff requests that the applicant provide sufficient information for the continuation issues identified above to permit the staff to review all portions of the systems within the license renewal boundary.

Section 2.3.3.3 Cranes and Hoists

RAI 2.3.3.3-01

LRA Section 2.1 describes the applicant's scoping methodology, which specifies how systems or components were determined to be included in the scope of license renewal. The staff confirms the inclusion of all components subject to AMR by reviewing the results of the screening of components within the license renewal boundary.

UFSAR Section 3.8.4.1.1, Mechanical-Electrical Auxiliaries Building (MEAB), states that the 7.5-ton overhead bridge crane necessary for handling radioactive solid waste is not within the scope of license renewal. This crane is located in the MEAB which is in scope for Title 10 of the *Code of Federal Regulations* (10 CFR) 54.4(a)(1), 10 CFR 54.4(a)(2) and 10 CFR 54.4(a)(3).

The staff requests the applicant provide the basis for not including the MEAB 7.5-ton overhead bridge crane within the scope of license renewal.

Section 2.3.3.4 Essential Cooling Water and ECW Screen Wash

RAI 2.3.3.4-01

LRA Section 2.1 describes the applicant's scoping methodology, which specifies how systems or components were determined to be included in scope of license renewal. The staff confirms the inclusion of all components subject to AMR by reviewing the results of the screening of components within the license renewal boundary.

LRA drawings LR-STP-EW-5R289F05038 #1-1 & #1-2 and LR-STP-EW-5R289F05038 #2-1, #2-2, & #2-3, coordinates C-4, depict a section of 6"EW1122WF7 piping to the essential cooling water discharge structure as not within the scope of license renewal. However, LR-STP-EW-5R289F05038 #1-3, coordinates C-4, depicts this section of 6"EW1122WF7 piping to the essential cooling water discharge structure as within the scope of license renewal for 10 CFR 54.4(a)(2).

The staff requests the applicant provide the basis for the differences in the scoping of the piping downstream of the termination symbol within the scope of license renewal.

RAI 2.3.3.4-02

LRA Section 2.1 describes the applicant's scoping methodology, which specifies how systems or components were determined to be included within the scope of license renewal. The staff confirms the inclusion of all components subject to AMR by reviewing the results of the screening of components within the license renewal boundary.

LRA drawing LR-STP-EW-5R289F05038 #2-1 coordinates E-4, depicts a section of 10 CFR 54.4 (a)(1) 4"EW2126WD8 piping continued to LR-STP-DR-F20005 #2 coordinates F-6, where it is shown within scope of license renewal for 10 CFR 54.4(a)(2).

The staff requests the applicant provide the basis for the scoping classification change from 10 CFR 54.4(a)(1) to 10 CFR 54.4(a)(2).

RAI 2.3.3.4-03

LRA Section 2.1 describes the applicant's scoping methodology, which specifies how systems or components were determined to be included in scope of license renewal. The staff confirms the inclusion of all components subject to AMR by reviewing the results of the screening of components within the license renewal boundary.

LRA drawing LR-STP-EW-5R289F05038 #1-3 coordinates C-4, depicts a piping section 6"EW1322WF7 into the Essential Cooling Water Discharge Structure. The license renewal boundary for comparable piping sections 6"EW1122WF7 and 6"EW1222WF7 on LRA drawings LR-STP-EW-5R289F05038 #1-1 and LR-STP-EW-5R289F05038 #1-2 coordinates C-4, respectively, stops at the 10 CFR 54.4(a)(2) termination symbols.

The staff requests the applicant provide the basis for the difference in license renewal boundaries.

Section 2.3.3.5 Reactor Makeup Water

RAI 2.3.3.5-01

LRA Section 2.1 describes the applicant's scoping methodology, which specifies how systems or components were determined to be included within the scope of license renewal.

The staff confirms the inclusion of all components subject to AMR by reviewing the results of the screening of components within the license renewal boundary.

The applicant indicated, on LRA drawings LR-STP-RM-5R279F05033 #1 and #2 coordinates G-4, a floating seal of the reactor makeup water storage tanks 1A & 1B as not within the scope of license renewal. LRA Table 2.3.3-5 does not list this floating seal. This component appears to be part of the reactor makeup water system, which is depicted as being within the scope of license renewal for 10 CFR 54.4(a)(1).

The staff requests that the applicant provide the basis for excluding the floating seal from within the scope of license renewal.

RAI 2.3.3.5-02

In LRA Section 2.1.2.2, the applicant indicated that nonsafety-related SSCs attached to safety-related SSCs are within the scope of license renewal for 10 CFR 54.4(a)(2) up to the first seismic anchor past the safety/nonsafety interface.

On LRA drawings LR-STP-RM-5R279F05033 #1 & #2 at coordinates G-7, the staff could not locate seismic anchors on the 10 CFR 54.4(a)(2) non-safety related lines connected to safety-related lines downstream of valves FV7664.

The staff requests that the applicant provide the location of the seismic anchors.

Section 2.3.3.6 Component Cooling Water

RAI 2.3.3.6-01

LRA Section 2.1 describes the applicant's scoping methodology, which specifies how systems or components were determined to be included within the scope of license renewal. The staff confirms the inclusion of all components subject to AMR by reviewing the results of the screening of components within the license renewal boundary.

LRA drawings LR-STP-CC-5R209F05017 #1 and #2 coordinates G-6, depict short pipe extensions off of valve CC0746 that are within the scope of license renewal for 10 CFR 54.4a)(2). The short pipe extensions have no identification, anchor, or boundary location established.

The staff requests the applicant provide the identification, anchor, or boundary location for these pipe section extensions.

RAI 2.3.3.6-02

LRA Section 2.1 describes the applicant's scoping methodology, which specifies how systems or components were determined to be included in scope of license renewal. The staff confirms the inclusion of all components subject to AMR by reviewing the results of the screening of components within the license renewal boundary.

LRA drawings LR-STP-CC-5R209F05020 #1 and #2 coordinates E-1, depict pipe sections 1" CC1647XC7 and 1" CC2647XC7 within the scope of license renewal under 10 CFR 54.4(a)(2) continued to LRA drawings LR-STP-SB-5S209F20002 #1 and #2 coordinates D-4, where they are shown as not within the scope of license renewal.

The staff requests the applicant provide a basis for not including the pipe sections on LRA drawings LR-STP-SB-5S209F20002 #1 and #2 within the scope of license renewal.

RAI 2.3.3.6-03

LRA Section 2.1 describes the applicant's scoping methodology, which specifies how systems or components were determined to be included within the scope of license renewal. The staff confirms the inclusion of all components subject to AMR by reviewing the results of the screening of components within the license renewal boundary.

LRA drawings LR-STP-CC-5R209F05020 #1 and #2 coordinates B-1, depict 10 CFR 54.4(a)(2) pipe sections 1"CC1649XC7 and 1"CC2649XC7 continued from LRA drawings LR-STP-SB-5S2099F20002 #1 and #2 coordinates D-4, where they are shown as not within the scope of license renewal.

The staff requests the applicant provide the basis for not including the pipe sections within the scope of license renewal on LRA drawings LR-STP-SB-5S2099F20002 #1 and #2.

Section 2.3.3.7 Compressed Air

RAI 2.3.3.7-01

LRA Section 2.1 describes the applicant's scoping methodology, which specifies how systems or components were determined to be included within the scope of license renewal. The staff confirms the inclusion of all components subject to AMR by reviewing the results of the screening of components within the license renewal boundary.

LRA drawing LR-STP-IA-8Q119F00048 #1-1 coordinates G/H-6, 7, and 8, depicts an instrument air compressor (8Q111MCO0014), including the check valves and continuation lines, as within the scope of license renewal for 10 CFR 54.4(a)(3). However, for the standby unit instrument air compressors (8Q111MCO0011, 8Q111MCO0012 and 8Q111MCO0013), the license renewal boundary is shown to end at ball valves IA9813 (coordinates F-6), IA9814 (coordinates G-5) and IA9821 (coordinates F-6). Ball valves IA9813 and IA9821 are normally open valves and do not prevent any backflow into the standby unit instrument air compressors. A similar condition exists on the Unit 2 drawing LR-STP-IA-8Q119F00048 #2-1.

The staff requests the applicant provide the basis for the license renewal boundary at the open ball valves.

RAI 2.3.3.7-02

LRA Section 2.1 describes the applicant's scoping methodology, which specifies how systems or components were determined to be included within the scope of license renewal. The staff confirms the inclusion of all components subject to AMR by reviewing the results of the screening of components within the license renewal boundary.

LRA drawings LR-STP-IA-8Q119F00048 #1-1 and LR-STP-IA-8Q119F00048 #2-1 coordinates E-5, depict wet air tanks (8Q111MTS0161, and 8Q112MTS0161) within the scope of license renewal for 10 CFR 54.4(a)(3). However, the relief valves (PSV 8571) on these tanks are shown as not within the scope of license renewal. Similar air tanks (8Q111MTS0163 and 8Q112MTS0163 at coordinates E/F-2) on these LRA drawings show the relief valves as within the scope of license renewal.

The staff requests the applicant provide the basis for not including the relief valves on wet air tanks 8Q111MTS0161, and 8Q112MTS0161 within the scope of license renewal.

RAI 2.3.3.7-03

LRA Section 2.1 describes the applicant's scoping methodology, which specifies how systems or components were determined to be included within the scope of license renewal. The staff confirms the inclusion of all components subject to AMR by reviewing the results of the screening of components within the license renewal boundary.

LRA drawings LR-STP-IA-8Q119F00048 #1-1 and LR-STP-IA-8Q119F00048 #2-1 coordinates G-2, depict 1" drain lines (IA1237UD8 and IA2237UD8) attached to the instrument air receiver tanks (8Q111MTS0162, and 8Q112MTS0162) as within the scope of license renewal for 10 CFR 54.4(a)(3). However, for similar 1" drain lines (IA1238UD8 and IA2238UD8) on instrument air receiver tanks (8Q111MTS0163, and 8Q112MTS0163) at coordinates E-2, the license renewal boundary is shown to end at valves IA9980 and the line continuing after the valve is shown as not within scope of license renewal.

The staff requests the applicant provide a basis for the different scoping classifications for the lines downstream of the drain valves.

RAI 2.3.3.7-04

LRA Section 2.1 describes the applicant's scoping methodology, which specifies how systems or components were determined to be included within the scope of license renewal. The staff confirms the inclusion of all components subject to AMR by reviewing the results of the screening of components within the license renewal boundary.

LRA drawing LR-STP-IA-8Q119F00048 #2-2 coordinates B-6, depict a line with a capped end, upstream of a 4"x3" reducer, as within the scope of license renewal for 10 CFR 54.4(a)(3).

However, a similar line on drawing LR-STP-IA-8Q119F00048 #1-2 coordinates B-6, is shown as not within the scope of license renewal.

The staff requests the applicant provide a basis for not including the line on LRA drawing LR-STP-IA-8Q119F00048 #1-2 coordinates B-6 within the scope of license renewal.

RAI 2.3.3.7-05

LRA Section 2.1 describes the applicant's scoping methodology, which specifies how systems or components were determined to be included within the scope of license renewal. The staff confirms the inclusion of all components subject to AMR by reviewing the results of the screening of components within the license renewal boundary.

For the LRA drawing locations identified in the table below, the piping on the main drawing is shown as within the scope of license renewal but is shown as not within the scope of license renewal on the continuation drawing.

LRA Section/Drawing Number & Location	Continuation Piping/Drawing Number
LR-STP-IA-8Q119F05050 #1 and #2 coordinates G/F-2	Lines 1"IA1826WK8/1"IA2826WK8 to LR-STP-WL-7R309F05026 #1 and #2 coordinates G-4, (incorrectly shown as 9F05050 G-2)
LR-STP-IA-8Q119F05050 #1 and #2 coordinates F-2	Lines 1"IA1829WK8/1"IA2829WK8 to LR-STP-BR-7R189F05011 #1 and #2 coordinates F-6

The staff requests the applicant provide the basis for not including the continuation piping within the scope of license renewal.

Section 2.3.3.8 Primary Process Sampling

RAI 2.3.3.8-01

LRA Section 2.1 describes the applicant's scoping methodology, which specifies how systems or components were determined to be included within the scope of license renewal. The staff confirms the inclusion of all components subject to AMR by reviewing the results of the screening of components within the license renewal boundary.

LRA drawings LR-STP-PS-5Z329Z00045 #1 and #2 coordinates H-4, depict piping within the scope of license renewal under 10 CFR 54.4(a)(2) continuing to valve XPS0327 on the same LRA drawings coordinates at C-6, where it is shown as not within the scope of license renewal.

The staff requests the applicant provide the basis for the difference in scoping classification.

RAI 2.3.3.8-02

LRA Section 2.1 describes the applicant's scoping methodology, which specifies how systems or components were determined to be included in scope of license renewal. The staff confirms the inclusion of all components subject to AMR by reviewing the results of the screening of components within the license renewal boundary.

LRA drawings LR-STP-PS-5Z329Z00045 #1 and #2 coordinates D-4, depict piping continuing to valves XPS0330 within the scope of license renewal under 10 CFR 54.4(a)(2). On the same LRA drawings at coordinates C-6, the piping is not shown within the scope of license renewal.

The staff requests the applicant provide the basis for the differing scoping classifications.

RAI 2.3.3.8-03

LRA Section 2.1 describes the applicant's scoping methodology, which specifies how systems or components were determined to be included within the scope of license renewal. The staff confirms the inclusion of all components subject to AMR by reviewing the results of the screening of components within the license renewal boundary.

LRA drawings LR-STP-PS-5Z329Z00045 #1 and #2 coordinates D-1, depict piping within the scope of license renewal for 10 CFR 54.4(a)(2) with a continuation from valve CV0273 coordinates E-8 on LRA drawings LR-STP-CV-SR179F05008 #1 and #2, where it is shown as not within the scope of license renewal from valve CV0273.

The staff requests the applicant provide the basis for the difference in scope classification.

RAI 2.3.3.8-04

LRA Section 2.1 describes the applicant's scoping methodology, which specifies how systems or components were determined to be included within the scope of license renewal. The staff confirms the inclusion of all components subject to AMR by reviewing the results of the screening of components within the license renewal boundary.

LRA drawings LR-STP-PS-5Z329Z00045 #1 and #2 coordinates B-1, depict piping within the scope of license renewal under 10 CFR 54.4(a)(2). The pipe continuations on drawings LR-STP-ED-7Q069F90012 #1 and #2 coordinates H-8, are depicted as not within the scope of license renewal.

The staff requests the applicant provide the basis for the continuation piping not being within the scope of license renewal.

RAI 2.3.3.8-05

LRA Section 2.1 describes the applicant's scoping methodology, which specifies how systems or components were determined to be included within the scope of license renewal. The staff confirms the inclusion of all components subject to AMR by reviewing the results of the screening of components within the license renewal boundary.

LRA drawing LR-STP-PS-5Z329Z00045 #1 coordinates F-7, depict a 10 CFR 54.4(a)(2) pipeline 1"PS1020BD7 within the scope of licensing renewal for 10 CFR 54.4(a)(2) that ends at the intersection with the inside primary sample panel. No spatial interaction symbol is shown.

The staff requests the applicant provide the basis for the license renewal boundary at the intersection of the pipe and the panel.

RAI 2.3.3.8-06

LRA Section 2.1 describes the applicant's scoping methodology, which specifies how systems or components were determined to be included within the scope of license renewal. The staff confirms the inclusion of all components subject to AMR by reviewing the results of the screening of components within the license renewal boundary.

LRA drawings LR-STP-PS-5Z329Z00045 #1 and #2 coordinates G-4, depict a digital pressure indicator (dpi) located in a 10 CFR 54.4(a)(2) pipeline. The dpi is shown as not within the scope of license renewal, and has been disconnected electrically and spared in place according to the notes. The dpi appears to provide a pressure boundary function for a portion of the 10 CFR 54.4 (a)(2) pipelines.

The staff requests the applicant provide the basis for the dpi casing not being in scope for 10 CFR 54.4(a)(2).

RAI 2.3.3.8-07

In LRA Section 2.1.2.2 the applicant indicates that nonsafety-related SSCs attached to safety-related SSCs are within the scope of license renewal for 10 CFR 54.4(a)(2) up to the first seismic anchor past the safety/nonsafety interface.

LRA drawings LR-STP-PS-5Z549Z47501 #1 and #2 coordinates C-4, depict a waste collection unit that is within the scope of license renewal for 10 CFR 54.4(a)(2) which contains nonsafety-related attached to safety-related components.

The staff requests the applicant provide the basis for why the waste collection unit and contained components within the scope of license renewal for 10 CFR 54.4(a)(2) do not depict equivalent anchoring like F.4.3 shown on the sample condition rack and the liquid and gas sample panel on the same drawing.

RAI 2.3.3.8-08

LRA Section 2.1 describes the applicant's scoping methodology, which specifies how systems or components were determined to be included within the scope of license renewal. The staff confirms the inclusion of all components subject to AMR by reviewing the results of the screening of components within the license renewal boundary.

LRA drawings LR-STP-PS-9Z329Z00047 #1 and #2 coordinates F-5, depict a pipeline within the scope of license renewal for 10 CFR 54.4(a)(2) with a continuation to coordinates B-2 on LRA drawings LR-STP-CV- PS-5Z329Z00045 #1 and #2, where it is shown as not within the scope of license renewal to the drain header.

The staff requests the applicant provide the basis for the change in scoping classification of this pipe section.

RAI 2.3.3.8-09

LRA Section 2.1 describes the applicant's scoping methodology, which specifies how systems or components were determined to be included within the scope of license renewal. The staff confirms the inclusion of all components subject to AMR by reviewing the results of the screening of components within the license renewal boundary.

LRA drawings LR-STP-PS-9Z329Z00047 #1 and #2 coordinates C-2, depict a 10 CFR 54.4(a)(2) piping intersecting XPS0120 which is not depicted as being in the scope of licensing renewal.

The staff requests the applicant provide the basis for the scope change at the intersection of the two pipes.

Section 2.3.3.9 Chilled Water HVAC

RAI 2.3.3.9-01

In LRA Section 2.1 the applicant states that its screening process was used to identify the passive, long-lived structures and components within the scope of license renewal and subject to AMR. The staff confirms inclusion of all components subject to an AMR by reviewing component types within the license renewal boundary.

LRA drawings LR-STP-CH-3V119V10003 #1 and #2 coordinates B-2, depict the Radwaste Control Room AHUs as abandoned in place. The AHU coils are shown on LR-STP-HM-5V109V00008 #1 and #2 coordinates B-5,as within the scope of license renewal for 10 CFR 54.4(a)(2). Connected piping to the AHU coils is shown within the scope of license renewal for 10 CFR 54.4(a)(1). There is no change in safety class indicated at the coil/piping interface. The staff questions if the coils provide a safety-related function, e.g. pressure boundary, and should be within the scope of license renewal for 10 CFR 54.4(a)(1).

The staff requests the applicant provide the basis for the scoping classification of the AHU coils.

RAI 2.3.3.9-02

LRA Section 2.1 describes the applicant's scoping methodology, which specifies how systems or components were determined to be included in scope of license renewal. The staff confirms the inclusion of all components subject to AMR by reviewing the results of the screening of components within the license renewal boundary.

LRA drawings LR-STP-CH-5V149V00021 #1 and #2 coordinates G-8, depict an expansion tank vent line 1"CH1193XC7/1"CH2193XC7 and relief line 1"CH1193XC7/1"CH2193XC7 as not within the scope of license renewal.

The staff requests the applicant provide the basis for the exclusion of the expansion tank vent and relief piping and associated isolation valves from the scope of license renewal.

RAI 2.3.3.9-03

LRA Section 2.1 describes the applicant's scoping methodology, which specifies how systems or components were determined to be included within the scope of license renewal. The staff confirms the inclusion of all components subject to AMR by reviewing the results of the screening of components within the license renewal boundary.

LRA drawings LR-STP-CH-6V109V00010 #1 and #2 coordinates B-5, depict an expansion tank within the scope of license renewal for 10 CFR 54.4(a)(2). The expansion tank has vent lines 1"CH1288XC7/1"CH2188XC7 and relief line 1"CH1194XC7/1"CH2194XC7 which are depicted as not within the scope of license renewal.

The staff requests the applicant provide the basis for the exclusion of the expansion tank vent and relief piping and associated isolation valves from the scope of license renewal.

Section 2.3.3.20 Standby Diesel Generator and Auxiliaries

RAI 2.3.3.20-01

In LRA Section 2.1 the applicant states that its screening process was used to identify the passive, long-lived structures and components within the scope of license renewal and subject to AMR. The staff confirms inclusion of all components subject to an AMR by reviewing component types within the license renewal boundary.

LRA drawings LR-STP-DG-5Q159F22540 #1 and #2 coordinates E-3, E-5, and E-8, depict turbo housing components within the scope of license renewal for 10 CFR 54.4(a)(1). The turbo housing component was not included in AMR Table 2.3.3-20.

The staff requests the applicant provide the basis for excluding the turbo housing component type from LRA Table 2.3.3-20.

RAI 2.3.3.20-02

In LRA Section 2.1 the applicant states that its screening process was used to identify the passive, long-lived structures and components within the scope of license renewal and subject to AMR. The staff confirms inclusion of all components subject to an AMR by reviewing component types within the license renewal boundary.

LRA drawings LR-STP-DG-5Q159F22540 #1 and #2 coordinates F-2, F-5, and F-7, depict standpipe tank components within the scope of license renewal for 10 CFR 54.4(a)(1) that provide a pressure boundary function. The standpipe tank component was not included in LRA Table 2.3.3-20.

The staff requests the applicant provide the basis for excluding the standpipe tank component type from LRA Table 2.3.3-20.

RAI 2.3.3.20-03

In LRA Section 2.1 the applicant states that its screening process was used to identify the passive, long-lived structures and components within the scope of license renewal and subject to AMR. The staff confirms inclusion of all components subject to an AMR by reviewing component types within the license renewal boundary.

LRA drawings LR-STP-DG-5Q159F22546 #1 and LR-STP-DG-5Q159F22546 #2 coordinates F-2, F-5, and F-7, depict starter air receiver tank components within the scope of license renewal for 10 CFR 54.4(a)(1) that provide a pressure boundary function. The starter air receiver tank component was not included in AMR Table 2.3.3-20.

The staff requests the applicant provide the basis for excluding the starter air receiver tank component from LRA Table 2.3.3-20.

RAI 2.3.3.20-04

In LRA Section 2.1 the applicant states that its screening process was used to identify the passive, long-lived structures and components within the scope of license renewal and subject to AMR. The staff confirms inclusion of all components subject to an AMR by reviewing component types within the license renewal boundary.

The staff reviewed LRA drawings LR-STP-DG-5Q159F22542 #1 and #2 and LR-STP-DG-5Q19F22543 #1 and #2 to locate the diesel lube oil reservoir tanks. The staff was unable to locate them.

The staff requests the applicant clarify whether or not there are diesel lube oil reservoir tanks in the system, and if they are, explain if they are in scope and where they are located.

RAI 2.3.3.20-05

In LRA Section 2.1.2.2, the applicant indicates that it utilized the method of designating base-mounted components (e.g., pump, heat exchanger, tank, etc.) as equivalent anchors to establish the license renewal boundary as described in NEI 95-10, Appendix F. The applicant uses the termination symbol, F.4.a, on the LRA drawings to identify the seismic endpoints at these components.

LRA drawings LR-STP-DG-5Q159F22546 #1 and #2 coordinates E-2, E-4, E-5, and E-7, depict membrane dryers attached to 1" stainless steel piping within the scope of license renewal, with

the termination symbols of F.4.a. However, during the Scoping and Screening Audit on May 16 through May 20, 2011, the staff identified ½" copper piping attached downstream of the 1" stainless steel piping. The ½" copper piping is attached to the membrane dryers. The configuration of the ½" copper piping on the membrane dryers does not appear to meet the description of base-mounted components as described in NEI-95-10, Appendix F.

The staff requests the applicant provide the basis for designating the membrane dryers as base-mounted components with the physical configuration as described above.

RAI 2.3.3.22-01

LRA Section 2.1 describes the applicant's scoping methodology, which specifies how systems or components were determined to be included in scope of license renewal. The staff confirms the inclusion of all components subject to aging management review (AMR) by reviewing the results of the screening of components within the license renewal boundary.

For the drawing locations/lines identified in the table below, the pipe sections on the main drawings are shown as within the scope of license renewal but are shown as not within the scope of license renewal on the continuation drawings.

(LRA) Section/Drawing Number & Location	**Continuation Piping/Drawing Number**
LR-STP-WL-7R309F05024 #1 and #2 coordinates G-6	2" piping (CV1259UD7 and CV2259UD7) on LR-STP-CV-5R179F05009 #1 and #2 coordinates A-8
LR-STP-WL-5R309F05022 #1 and #2 coordinates E-6	1" piping on LR-STP-RC-5R149F05004 #1 and #2 coordinates F-6
LR-STP-WL-7R309F05023 #1 and #2 coordinates A-2	3" piping (WL1048WG7/3"WL2048WG7) on LR-STP-WL-7R309F90001 #1 and #2 coordinates E-8

The staff requests the applicant to provide the basis for the change in scoping classification for these pipe sections.

RAI 2.3.3.22-02

In LRA Section 2.1, the applicant indicates that nonsafety-related SSCs attached to safety-related SSCs are within the scope of license renewal for 10 CFR 54.4(a)(2) up to the first seismic anchor beyond the safety/nonsafety interface.

During its review of the liquid waste processing system drawings, the staff could not locate seismic anchors on the following nonsafety-related piping sections, which are depicted as in scope of license renewal for 10 CFR 54.4(a)(2), and directly connected to safety-related valves.

Non-Safety/Safety Interface Location	Description
LR-STP-WL-7R309F05024 #1 and #2 coordinates H-6	2" piping (WL1401WG7/2"WL2401WG7) connected to 3" line piping (WL1081WG7/WL2081WG7) which in turn is connected to safety-related piping including 2"CV1034PB3/2"CV2034PB3
LR-STP-WL-5R309F05022 #1 and #2 coordinates E-6	Piping from drawing LR-STP-RC-5R149F05001 #1 and #2 connected to valves FV3400

The staff requests the applicant provide the locations of the seismic anchors for the above examples.

RAI 2.3.3.22-03

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.

License renewal drawing LR-STP-WL-7R309F90001 #2 coordinates D-1, C-4, C-7, E-7 and E-8, depict portions of several lines as within the scope for license renewal for 10 CFR 54.4(a)(2). However, similar lines on LRA drawing LR-STP-WL-7R309F90001 #1 are shown as not within the scope of license renewal.

The staff requests the applicant to clarify the difference in scoping classification of the lines in question.

RAI 2.3.3.22-04

LRA drawing LR-STP-SYMBOLS contains a component coloring scheme for identifying the pipe sections that are within the scope of license renewal. This drawing also contains symbols to identify 10 CFR 54.4(a)(2) terminations.

LRA drawing LR-STP-WL-7R309F90001 #1 contains 10 CFR 54.4(a)(2) termination symbols. However, no pipe sections or equipment are identified as within the scope of license renewal.

The staff requests the applicant to identify the pipe sections and any components that are within the scope of license renewal.

Section 2.3.3.23 Radioactive Vents and Drains

RAI 2.3.3.23-01

LRA Section 2.1 describes the applicant's scoping methodology, which specifies how systems or components were determined to be included in scope of license renewal. The staff confirms the inclusion of all components subject to AMR by reviewing the results of the screening of components within the license renewal boundary.

LRA drawings LR-STP-ED-5Q069F05030 #1 and #2 coordinates A-7 and F-4, depict Mech. Aux. Bldg. Elevator No. 5 Sump Pump 9O061NPA115A and Fuel Handling Building Sump No. 3 sump pump 9O061NPA109A casing and discharge piping as not within the scope of license renewal. However, the same drawings depict similar sump pumps and their associated casings and discharge piping as within the scope of license renewal for 10 CFR 54.4(a)(2).

The staff requests the applicant provide the basis for excluding the pump No. 9O061NPA115A casings and discharge piping from the scope of license renewal.

RAI 2.3.3.23-02

LRA Section 2.1 describes the applicant's scoping methodology, which specifies how systems or components were determined to be included in scope of license renewal. The staff confirms the inclusion of all components subject to AMR by reviewing the results of the screening of components within the license renewal boundary.

LRA drawings LR-STP-ED-7Q069F90016 #1 and #2 coordinates D-1, depict ten 3" pipe sections (ED1120TC7) within the scope of license renewal continuing to LRA drawings LR-STP-ED-5Q069F05030 #1 and #2 coordinates E-4, where they are shown as not within the scope of license renewal.

The staff requests the applicant provide the basis for the difference in scoping classification of these pipe sections.

Section 2.3.3.26 Radiation Monitoring (Area and Process) Mechanical

RAI 2.3.3.26-01

In LRA Section 2.1 the applicant states that its screening process was used to identify the passive, long-lived structures and components within the scope of license renewal and subject to AMR. The staff confirms inclusion of all components subject to an AMR by reviewing component types within the license renewal boundary.

LRA drawings LR-STP-HE-5V119V250003 #1 and #2 coordinates F-5, D-5, and B-5, depict carbon filter spray nozzles. The spray nozzle component type is not included in AMR Table 2.3.3-26.

The staff requests the applicant provide the basis for excluding the spray nozzle component type from LRA Table 2.3.3-26.

2.3.4 STEAM AND POWER CONVERSION SYSTEMS

Section 2.3.4.1 Main Steam

RAI 2.3.4.1-01

LRA Section 2.1 describes the applicant's scoping methodology, which specifies how systems or components were determined to be included within the scope of license renewal. The staff

confirms the inclusion of all components subject to AMR by reviewing the results of the screening of components within the license renewal boundary.

LRA drawings LR-STP-MS-5S109F00016 #1 and #2 coordinates C-6, E-6, F-6, and H-6, depict piping downstream of the silencers as not within the scope of license renewal (total of 8 examples). These pipe sections appear to be part of the main steam system, which is depicted as being within the scope of license renewal for 10 CFR 54.4(a)(2).

The staff requests the applicant provide the basis of the scoping classification of these pipe sections.

RAI 2.3.4.1-02

LRA Section 2.1 describes the applicant's scoping methodology, which specifies how systems or components were determined to be included within the scope of license renewal. The staff confirms the inclusion of all components subject to AMR by reviewing the results of the screening of components within the license renewal boundary.

LRA drawings LR-STP-MS-5S101Z51002 and LR-STP-MS-5S102Z51002, lists many components of the main steam power operated relief valve – hydraulic system along the bottom of the drawing. However, the desiccant breather is not listed in LRA Table 2.3.4-1.

The staff requests that the applicant provide the basis for excluding the desiccant breather component type from LRA Table 2.3.4-1.

Section 2.3.4.2 Auxiliary Steam System and Boilers

RAI 2.3.4.2-01

LRA Section 2.1 describes the applicant's scoping methodology, which specifies how systems or components were determined to be included within the scope of license renewal. The staff confirms the inclusion of all components subject to AMR by reviewing the results of the screening of components within the license renewal boundary.

LRA drawing LR-STP-WL-5R309F05027 #2 coordinates G-4, depicts 2" piping WL2586XC7 within the scope of license renewal under 10 CFR 54.4(a)(2) continuing to LR-STP-WL7R309F05026 #2 coordinates E-6, where it is depicted as not within the scope of license renewal.

The staff requests the applicant provide the basis for the different scoping classifications for this pipe section.

Section 2.3.4.4 Demineralizer Water (Make-Up)

RAI 2.3.4.4-01

LRA drawing LR-STP-SYMBOLS contains a note for the 10 CFR 54.4 (a)(2) termination symbol, F.4.e, which states: "Point where Buried piping exits the ground – buried portion of pipe in scope."

LRA drawings LR-STP-DW-5S1999F05034 #1 and #2 coordinates B-6 depict 10 CFR 54.4(a)(2) lines 4" DW0018WD9 continuing to drawing LR-STP-NL-6S190F00009 coordinates E-2 and B-2, where the underground piping is shown as not within the scope of license renewal. The termination symbol F.4.e at coordinates B-6 indicates that all underground piping is within the scope of license renewal. Also, during the Scoping and Screening Audit on May 16 through May 20, 2011, the applicant indicated that there were similar instances in which portions of buried piping in other systems were removed from scope of license renewal.

The staff requests the applicant provide the basis for not including the entire underground portion of the pipe section described above within the scope of license renewal. The staff also requests the applicant identify and provide the basis for the other portions of buried piping removed from scope of license renewal.

Section 2.3.4.6 Auxiliary Feedwater

RAI 2.3.4.6-01

LRA Section 2.1 describes the applicant's scoping methodology, which specifies how systems or components were determined to be included within the scope of license renewal. The staff confirms the inclusion of all components subject to AMR by reviewing the results of the screening of components within the license renewal boundary.

LRA drawing LR-STP-AF-5S142F00024-1 coordinates H-7 depicts Auxiliary Feedwater Pump No. 24 3S142MPA04 1" vent piping and associated isolation valves AF0129 and AF0130 as not within the scope of license renewal. However, the same drawing depicts the pump vent lines and associated isolation valves coordinates F-7, D-7, and B-7, for Auxiliary Feedwater Pumps No. 21 3S142MPA01, No. 22 3S142MPA02, and No. 23 3S142MPA03 as within the scope of license renewal for 10 CFR 54.4(a)(1) or (a)(3).

The staff requests the applicant provide the basis for excluding pump No. 24 3S142MPA04 vent piping and associated isolation valves from the scope of license renewal.

RAI 2.3.4.6-02

LRA Section 2.1 describes the applicant's scoping methodology, which specifies how systems or components were determined to be included within the scope of license renewal. The staff confirms the inclusion of all components subject to AMR by reviewing the results of the screening of components within the license renewal boundary.

LRA drawing LR-STP-AF-5S142F00024-1 coordinates H-7, F-7, D-7, and B-7, depict Auxiliary Feedwater Pump 1" vent piping and associated isolation valves. However, Unit 1 LRA drawing LR-STP-AF-5S141F00024-1 coordinates H-7, F-7, D-7 and B-7 do not include Auxiliary Feedwater Pump vent piping details.

The staff requests the applicant to confirm that there are no vent piping and associated isolation valves on the Unit 1 Auxiliary Feedwater Pumps.

RAI 2.3.4.6-03

LRA Section 2.1 describes the applicant's scoping methodology, which specifies how systems or components were determined to be included within the scope of license renewal. The staff confirms the inclusion of all components subject to AMR by reviewing the results of the screening of components within the license renewal boundary.

LRA drawings LR-STP-AF-5S141F00024-1 and LR-STP-AF-5S142F00024-1 coordinates G-7, depict the auxiliary feedwater pump turbine attached to the turbine-driven auxiliary feedwater pump, which are both within the scope of license renewal under 10 CFR 54.4(a)(1). However, the LRA drawings also depict solid black lines in between the two components, which are not highlighted in scope of license renewal.

The staff requests the applicant provide the basis for excluding these black lines from the scope of license renewal.

July 12, 2011

Mr. G. T. Powell, Vice President
Technical Support and Oversight
STP Nuclear Operating Company
P. O. Box 289
Wadsworth, TX 77483

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION FOR SOUTH TEXAS PROJECT, UNITS 1 AND 2 LICENSE RENEWAL APPLICATION - SCOPING AND SCREENING BALANCE OF PLANT (TAC NOS. ME4936 AND ME4937)

Dear Mr. Powell:

By letter dated October 25, 2010, the South Texas Project Nuclear Operating Company (STPNOC or the applicant) submitted an application pursuant to Title 10 of the *Code of Federal Regulations* (10 CFR) Part 54, to renew operating licenses NPF-76, NPF-80 for South Texas Project, Units 1 and 2 (STP), for review by the U.S. Nuclear Regulatory Commission (NRC or the staff). The staff is reviewing the information contained in the license renewal application and has identified, in the enclosure, areas where additional information is needed to complete the review.

These requests for additional information were discussed with Arden Aldridge, and a mutually agreeable date for the response is within 30 days from the date of this letter. If you have any questions, please contact me by telephone, 301-415-3873, or by e-mail, John.Daily@nrc.gov.

Sincerely,

/RA/

John W. Daily, Senior Project Manager
Projects Branch 1
Division of License Renewal
Office of Nuclear Reactor Regulation

Docket Nos. 50-498 and 50-499

Enclosure:
As stated

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DATE	07/07/2011	07/07/2011	07/12/2011	07/12/2011	07/12/2011

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Letter to G.T. Powell from John W. Daily dated July 12, 2011

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION FOR SOUTH TEXAS PROJECT, UNITS 1 AND 2 LICENSE RENEWAL APPLICATION - SCOPING AND SCREENING BALANCE OF PLANT (TAC NOS. ME4936 AND ME4937)

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