## PMSTPCOL PEmails

**From:** Eudy, Michael
**Sent:** Tuesday, February 22, 2011 3:21 PM
**To:** Chappell, Coley; Elton, Loree
**Cc:** Tai, Tom; Govan, Tekia; Wunder, George; Tonacci, Mark; STPCOL
**Subject:** 2/23/11 STP OI call
**Attachments:** OI list_2-23-11.pdf; STP 3 7 RAI Status.pdf; STP 3 8 RAI Status.pdf

Coley,

I have attached the revised Open Items list to be discussed during the call. In addition, I have also attached two supplemental spread sheets for section 3.7 and 3.8 Open Items.

Agenda:

1. Mike Eudy – Chapter 12 Spent Fuel Pool Open Item (tentative), 9-9:30
2. Mike Eudy - Open Items status, 9:30-10
3. Tekia Govan – Section 2.4.4 RAI break out call, 11-noon
4. Tom Tai – Section 3.7 and 3.8 RAI break out call, 1-2pm.

Michael A. Eudy - Project Manager
U.S. Nuclear Regulatory Commission
NRO/DNRL/NGE1&2
301-415-3104

**Hearing Identifier:** SouthTexas34Public_EX
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**Subject:** 2/23/11 STP OI call
**Sent Date:** 2/22/2011 3:21:09 PM
**Received Date:** 2/22/2011 3:21:11 PM
**From:** Eudy, Michael

**Created By:** Michael.Eudy@nrc.gov

**Recipients:**
"Tai, Tom" <Tom.Tai@nrc.gov>
Tracking Status: None
"Govan, Tekia" <Tekia.Govan@nrc.gov>
Tracking Status: None
"Wunder, George" <George.Wunder@nrc.gov>
Tracking Status: None
"Tonacci, Mark" <Mark.Tonacci@nrc.gov>
Tracking Status: None
"STPCOL" <STP.COL@nrc.gov>
Tracking Status: None
"Chappell, Coley" <ccchappell@STPEGS.COM>
Tracking Status: None
"Elton, Loree" <leelton@STPEGS.COM>
Tracking Status: None

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| **Files** | **Size** | **Date & Time** |
|---|---|---|
| MESSAGE | 593 | 2/22/2011 3:21:11 PM |
| OI list_2-23-11.pdf | 112380 | |
| STP 3 7 RAI Status.pdf | 69856 | |
| STP 3 8 RAI Status.pdf | 64927 | |

**Options**
**Priority:** Standard
**Return Notification:** No
**Reply Requested:** No
**Sensitivity:** Normal
**Expiration Date:**
**Recipients Received:**

## 2011 STP Item Status Counts

| OPEN | 1/12/2011 | 1/19/2011 | 1/26/2011 | 2/9/2011 | 2/16/2011 | 2/23/2011 | |
|---|---|---|---|---|---|---|---|
| NRC action | 45 | 34 | 37 | 34 | 31 | 36 | |
| STP action | 20 | 25 | 22 | 22 | 20 | 28 | |
| | 65 | 59 | 59 | 56 | 51 | 64 | |
| | | | | | | | |
| **CONFIRMATORY** | **1/12/2011** | **1/19/2011** | **1/26/2011** | **2/9/2011** | **2/16/2011** | **2/23/2011** | |
| NRC action | 2 | 2 | 2 | 2 | 2 | 2 | |
| STP Action | 81 | 138 | 154 | 152 | 154 | 155 | |
| | 83 | 140 | 156 | 154 | 156 | 157 | |
| | | | | | | | |
| **CLOSED** | **1/12/2011** | **1/19/2011** | **1/26/2011** | **2/9/2011** | **2/16/2011** | **2/23/2011** | |
| | 53 | 92 | 92 | 95 | 101 | 101 | |

# STP Phase 4 Open Items

| Item # | Chp | OI # | RAI # | Description | Next Action | Next Action Completion Date | OI Closure Date | SER Completion Date | OI Status |
|---|---|---|---|---|---|---|---|---|---|
| ##### | 1 | 1-3 | n/a | Plant aging management | Closed | | | | closed |
| ##### | 1 | 1-4 | n/a | Hydrodynamic loads, Alternate Vendor Issue | Closed | | | | closed |
| ##### | 1 | 1-6 | 3944<br>01-15 | Parts 30, 40 and 70 | Closed | | | | closed |
| ##### | 1 | 1-10 | n/a | Construction Impact on Units 1 and 2 | Closed | | | | closed |
| ##### | 2 | 2.4.12-1 | 4551, 02.04.12-38 | NRC Audit issues and confirm consistency of changes in the geometric mean hydraulic conductivity values. | Closed | | | | closed |
| ##### | 2 | 2.4.12-1 | 4551, 02.04.12-39 | Complete evaluation of post-construction conditions in the Groundwater Model. | Closed | | | | closed |
| ##### | 2 | 2.4.12-1 | 4551, 02.04.12-42 | Complete Groundwater Model evaluation and perform sensitivity analysis. (Qualitative Response) (Final Response) | Closed | | | | closed |
| ##### | 2 | 2.4.12-1 | 4551, 02.04.12-43 | Perform sensitivity analysis of the impact of flooded cells on the Groundwater Model results. | Closed | | | | closed |
| ##### | 2 | 2.4.12-1 | 4551, 02.04.12-44 | Supplemental response to address NRC Audit issues and perform sensitivity analysis and evaluation of the Groundwater Model. | Closed | | | | closed |
| ##### | 2 | 2.4.12-1 | 4551, 02.04.12-45 | Supplemental response to address NRC Audit issues and perform sensitivity analysis and evaluation of the Groundwater Model. | Closed | | | | closed |
| ##### | 2 | 2.4.12-1 | 4551, 02.04.12-47 | Complete Groundwater Model sensitivity analysis. (Qualitative Response) (Final Response) | Closed | | | | closed |
| ##### | 2 | 2.4.12-1 | 4551, 02.04.12-40 | Complete validation runs of the Groundwater Model results. | Closed | | | | closed |
| ##### | 2 | 2.4.12-1 | 4551, 02.04.12-48a | Perform sensitivity analysis of the relief well operation on the groundwater levels and model the CFRW. | Closed | | | | closed |
| ##### | 2 | 2.4.12-1 | 4551, 02.04.12-48b | Complete evaluation of the Groundwater Model (i.e., model ground cover and recharge) (Qualitative Response) (Final Response) | Closed | | | | closed |

# STP Phase 4 Open Items

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|---|---|---|---|---|---|---|---|---|---|
| ##### | 2 | 2.4.12-1 | 4551, 02.04.12-46 | Complete Groundwater Model evaluation and perform sensitivity analysis. (Qualitative Response) (Final Response) | Closed | | | | closed |
| ##### | 2 | 2.4.12-1 | 4551, 02.04.12-50 | Complete evaluation of the Groundwater Model and perform sensitivity analysis. (Qualitative Response) (Final Response) | Closed | | | | closed |
| ##### | 2 | 2.4.5-1 | 4477, 5102, 02.04.05-10, 02.04.05-11 | SLOSH Model | Closed | | | | closed |
| ##### | 2 | 2.5.4-37 | 4824, 02.05.04-37 | ITAAC for backfill, shear wave velocity and settlement (specific tests, frequency, and standard) | Closed | | | | closed |
| ##### | 2 | TBD | 4279, 02.05.02-28 | FSAR discrepancy in section 2.5S2 | Closed | | | | closed |
| ##### | 4 | 4.03-1 | 4161<br>04.03-3 | Inconsistencies with figures in COLA vs. DCD | Closed | | | | closed |
| ##### | 4 | 4.03-2 | 4143<br>04.03-2 | Figure 4.3-2 loading patterns, need for safety finding | Closed | | | | closed |
| ##### | 4 | 4.06-1 | 3975<br>04.06-4 | Provide Backfill RPV report | Closed | | | | closed |
| ##### | 5 | 5.3.2-1 | 3744<br>05.03.02-2 | Topical Report to support application plant-specific PTLR issues. | Closed | | | | closed |
| ##### | 5 | 5.3.2-5 | 4559<br>05.03.02-5 | PTLR revision | Closed | | | | closed |
| ##### | 5 | 5.4.6-1 | 2777<br>05.04.06-2 | Issues involving RCIC turbine-pump design. | Closed | | | | closed |
| ##### | 5 | 5.4.6-3 | 4334<br>05.04-06-3 | NPSH calculations | Closed | | | | closed |

# STP Phase 4 Open Items

| Item # | Chp | OI # | RAI # | Description | Next Action | Next Action Completion Date | OI Closure Date | SER Completion Date | OI Status |
|---|---|---|---|---|---|---|---|---|---|
| ##### | 5 | 5.4.7-1 | 2539<br>05.04.07-1 | Wetwell Spray | Closed | | | | closed |
| ##### | 5 | 5.4.7-8 | none | SER ERROR | Closed | | | | closed |
| ##### | 5 | STD DEP T1 2.4-3 | Chapter 5 OI<br>05.04.06-2<br>05.04.06-3 | RCIC Turbine/Pump, See OIs 05.04.06-2 and 05.04.06-3 | Closed | | | | closed |
| ##### | 6 | 6.2.1.1.C-17 | 4264<br>06.02.01.01.C-17 | Vacuum breaker COL Item | Closed | | | | closed |
| ##### | 6 | 6.2.2-26 | 4484<br>06.02.02-26 | Latent Debris | Closed | | | | closed |
| ##### | 6 | 6.4-2 | 4330<br>06.04-2<br>06.04-3 | Maximum Puddle Area, Toxic Gas | Closed | | | | closed |
| ##### | 6 | STD DEP T2 9.4-1 | Chapter 6<br>06.04-2 | Toxic Gas ITAAC | See OI 06.04-2 | | | | closed |
| ##### | 7 | 7-5 | 3377<br>7-5 | Data communication | Closed | | | | closed |
| ##### | 7 | 7.6-2 | 4533<br>07.06-2 | COL Item 7.2 | Closed | | | | closed |
| ##### | 7 | 7.6-3 | 4528<br>07.06-3 | STD DEP T1 2.2-1 impact on 7.6 | Closed | | | | closed |
| ##### | 7 | TBD | 07.01-14 | RG 1.152 Rev 2 Applicability | Closed | | | | closed |
| ##### | 8 | 8.1-1 | 3848<br>08.01-2 | EMI | Closed | | | | closed |
| ##### | 8 | 8.2-2 | 3494<br>08.02-22 | Transmission line failure | Closed | | | | closed |
| ##### | 8 | 8.2-3 | 4017<br>08.02-23<br>08.02-24 | Inaccessible cable testing program | Closed | | | | closed |
| ##### | 8 | 8.2-4 | 3731<br>08.02-20 | Communication | Closed | | | | closed |
| ##### | 8 | 8.3.1-2 | 3619<br>08.03.01-13 | Isolation devices | Closed | | | | closed |
| ##### | 8 | 8.4-2 | 4602<br>08.04-4 | SBO timing | Closed | | | | closed |

# STP Phase 4 Open Items

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|---|---|---|---|---|---|---|---|---|---|
| ##### | 8 | STD DEP T1 12.15-2 | Chapters 8 and 9 OI 08.03.01-1 09.04.05-1 | RBSRDG HVAC, See OIs 08.03.01-1 and 09.04.05-1 | Closed | | | | closed |
| ##### | 9 | Conf Item 9.3.8-1 | 103, 09.03.03-1 & -2 | STP revised Figure 9.3-11 in Revision 4 with no justifications. NRC reviewer is satisfied with response | Closed | | | | closed |
| ##### | 9 | 9.4.5-1 | 4544 09.04.05-1 | RB HVAC | Closed | | | | closed |
| ##### | 10 | 10.4.3-4 | 4102 10.04.03-4 (1) | Loop Seal | Closed | | | | closed |
| ##### | 10 | 10.4.3-5 | 4102 10.04.03-4 (2) | Pressure Switch | Closed | | | | closed |
| ##### | 10 | 10.4.3-6 | 4102 10.04.03-4 (6) | Check Valve Deletion | Closed | | | | closed |
| ##### | 10 | 10.4.7-3 | 4440 10.04.07-3 | CFS update, STP to put in reading room 10/27/2010, Applicant to propose new Tier 1 exemption based on 10/5/10 telecon | Closed | | | | closed |
| ##### | 11 | 11.02-7 | 3676 11.02-7 | CST source term revisions to FSAR, - being tracked under 12.02-18 | Closed | | | | closed |
| ##### | 11 | 11.02-9 | 3676 11.02-9 | CST descriptions | Closed | | | | closed |
| ##### | 12 | 12.02-1 | 3018 12.02-7 12.02-15 12.02-16 12.02-19 | Gaseous effluent data, input parameters, and resulting gaseous effluent dose info, closed pending finished SER | Closed | | | | closed |
| ##### | 13 | TBD | 4535 Ltr. 398 Open - 0 Resolved - 9 Confirmatory - 24 | Physical Security - PSP 33 questions | NRC - reviewing revised RAI responses received on 12/9/2010. | | | | closed |
| ##### | 13 | TBD | 4451 Ltr. 400 Open - 0 Resolved - 17 Confirmatory - 1 | Physical Security - Target Sets 18 questions | NRC - reviewing revised RAI responses received on 12/9/2010. | | | | closed |
| ##### | 13 | TBD | 4589 Ltr. 402 Open - 0 Resolved - 2 Confirmatory - 9 | Physical Security - ICE 11 questions | NRC - reviewing revised RAI responses received on 12/9/2010. | | | | closed |

# STP Phase 4 Open Items

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|---|---|---|---|---|---|---|---|---|---|
| ##### | 13 | TBD | 4593<br>Ltr. 402 Open -0 Resolved - 2 Confirmatory - 2 | Physical Security - ICE<br>4 questions | NRC - reviewing revised RAI responses received on 12/9/2010. | | | | closed |
| ##### | 13 | TBD | 4604<br>Ltr. 404 Open - 0 Resolved - 4 Confirmatory - 6 | SGI related - ICE<br>10 questions | NRC - reviewing revised RAI responses received on 12/9/2010. | | | | closed |
| ##### | 13 | TBD | 4605<br>Ltr.403 Open - 0 Resolved - 3 Confirmatory - 7 | SUNSI related - ICE<br>10 questions | NRC - reviewing revised RAI responses received on 12/9/2010. | | | | closed |
| ##### | 13 | TBD | 4905 Ltr.361<br>Open - 0 Resolved - 2 Confirmatory - 5 | Physical Security - ICE<br>7 questions | NRC - reviewing revised RAI responses received on 12/9/2010. | | | | closed |
| ##### | 14 | 14.02-14 | 4581<br>14.02-14 | License info item 14.2 as License Condition | Closed | | | | closed |
| ##### | 15 | 15.6-1 | 3387<br>15.00.03-1 | Control Room radiological analysis | Closed | | | | closed |
| ##### | 15 | 15.6-2 | n/a | TSC Dose Calculation | Closed | | | | closed |
| ##### | 15 | 15.A-1 | 4300<br>15.08-3 | Suppression pool temp change | Closed | | | | closed |
| ##### | 15 | 15.E -1 | 3919<br>15.08-2 | ATWS mitigation logic | Closed | | | | closed |
| ##### | 16 | 16.1b | n/a | RCS P-T Limits, RAI | Closed: See OI 5.3.2-1 | | | | closed |
| ##### | 19 | 19-13 | 19-1<br>19-2<br>19-28 | MAAP and Fusible Plug | Closed | | | | closed |
| ##### | 19 | 19-14 | 19-24<br>19-33 | Seismic Effect | Closed | | | | closed |
| ##### | 19 | 19-7 | 19.01-25 | Resolution of COL Information Items | Closed | | | | closed |
| ##### | 1 | 1-2 | 01-17 | FSAR editorial errors | STP - FSAR revision | | | | confirmatory |
| ##### | 1 | 1-7 | n/a<br>01-18 | AIA - Compliance with 10CFR50.150 | STP - FSAR revision | | | | confirmatory |

# STP Phase 4 Open Items

| Item # | Chp | OI # | RAI # | Description | Next Action | Next Action Completion Date | OI Closure Date | SER Completion Date | OI Status |
|---|---|---|---|---|---|---|---|---|---|
| ##### | 1 | 1-8 | 3174<br>01-14 | OQPD RGs - TIED TO RAI 17.5-9 | STP - FSAR revision | | | | confirmatory |
| ##### | 1 | 1-9 | n/a | Tier 2 Deps Not in table 1.9S-3 | STP - FSAR revision | | | | confirmatory |
| ##### | 1 | tbd | 5303, 01-19 | AIA revision references | STP - FSAR revision | | | | confirmatory |
| ##### | 3 | 3.02.02-6 | 2920<br>03.02.02-6<br>03.02.02-7<br>03.02.02-9<br>03.02.02-10 | Request new site specific ITAAC to verify QG and ASME code class and seismic classification | STP - FSAR revision | | | | confirmatory |
| ##### | 3 | 3.02.02-8 | 2920<br>03.02.02-8<br>03.02.02-11 | Request if FSAR figures will be updated to reflect classification and boundaries. | STP - FSAR revision | | | | confirmatory |
| ##### | 3 | 3.04.02-10 | 4992<br>03.04.02-4 (3322)<br>03.04.02-8 (4058) | COL Information item 3.7, Flood Protection Requirements for Other Structures | STP - FSAR revision | | | | confirmatory |
| ##### | 3 | 3.04.02-11 | 4993<br>03.04.02-1 (3322)<br>03.04.02-9 (4091) | Hydrodynamic loads - Flood Protection | STP - FSAR revision | | | | confirmatory |
| ##### | 3 | 3.04.02-6 | 4058<br>03.04.02-2 (3322)<br>03.04.02-6 (4058) | Watertight doors, FSAR revision, response revised 11/29/10 per audit, NRC relook at status | STP - Revision 6 | | | | confirmatory |
| ##### | 3 | 3.04.02-7 | 4058<br>03.04.02-3 (3322)<br>03.04.02-7 (4058) | Below grade tunnels | STP - FSAR revision | | | | confirmatory |
| ##### | 3 | 3.09.06-1 | 2899<br>03.09.06-16, -18, -24, -25,<br>COL Items 3.9.7.3, 3.9.7.4 | Follow-up audit of design and procurement spec | STP - FSAR revision | | | | confirmatory |
| ##### | 3 | 3.11-7 | 4668<br>3.11-7 | Address U3&4 EQP instead of referencing U1&2 | STP - FSAR revision | | | | confirmatory |
| ##### | 4 | 4.04-1 | 4133, 04.04-3, 5047,<br>04.04-4 | Fuel testing & acceptance criteria | STP - FSAR revision | | | | confirmatory |
| ##### | 5 | 5.2.1.2-1 | 2831<br>05.02.01.02-1 | Applicant requested to provide a full description of ISI to specify Code cases. | STP - FSAR revision | | | | confirmatory |
| ##### | 5 | 5.2.1.2-2 | 2831<br>05.02.01.02-2 | Applicant requested to provide a full description of IST to specify Code cases. | STP - FSAR revision | | | | confirmatory |
| ##### | 5 | 5.2.3-2 | 3904<br>05.02.03-2 | Applicant to modify Departures report to clarify impact of departure. | STP - FSAR revision | | | | confirmatory |

# STP Phase 4 Open Items

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|---|---|---|---|---|---|---|---|---|---|
| ##### | 5 | 5.2.5-5 | 4354<br>05.02.05-5 | Alarm response procedures and Surveillance procedures to be added to FSAR. | STP - FSAR revision | | | | confirmatory |
| ##### | 5 | 5.4-2 | 3527<br>05.04-2 | Applicant to provide contingency plan for RIP maintenance. | STP - FSAR revision | | | | confirmatory |
| ##### | 6 | 6.2.1.1.C-14 | 4264<br>06.02.01.01.C-14 | Mass and Energy confirmation | STP - FSAR revision | | | | confirmatory |
| ##### | 6 | 6.2.1.1.C-15 | 4264<br>06.02.01.01.C-15 | FSAR Update | STP - FSAR revision | | | | confirmatory |
| ##### | 6 | 6.2.1.1.C-16 | 4264<br>06.02.01.01.C-16 | FSAR Update | STP - FSAR revision | | | | confirmatory |
| ##### | 6 | 6.2.1.1.C-18 | 4264<br>06.02.01.01.C-18 | FSAR Update | STP - FSAR revision | | | | confirmatory |
| ##### | 6 | 6.2.2-27 | 4577, 06.02.02-27 5064, 06.02.02-28, 29, 30 and 31 | Aluminum Corrosion | STP - FSAR revision | | | | confirmatory |
| ##### | 6 | TBD | 4133, 04.04-3 | Latent Fiber Assumption for Downstream Effects Testing, to be covered by revised response to 04.04-4 | STP - FSAR revisions | | | | confirmatory |
| ##### | 7 | 7.1-15 | 4241<br>07.01-15<br>07.01-16 | Setpoint Methodology | STP - FSAR revision | | | | confirmatory |
| ##### | 8 | 8.2-1 | 3731<br>08.02-21 | Switchyard battery | STP - FSAR revision | | | | confirmatory |
| ##### | 8 | 8.3.1-1 | 3619<br>08.03.01-14 | Diesel temp | STP - FSAR revision | | | | confirmatory |
| ##### | 8 | 8.3.1-3 | 2389<br>08.03.01-4 supp 3 | FSAR 8.3.3.5.1 is not revised per 8.3.1-4 S3. Inadvertently revised FSAR 8.3.3.5.1.3. And Part 7, Section 2.2 is not revised, but revised Part 7, Section 3.0 | STP - Rev 6 revision | | | | confirmatory |
| ##### | 8 | 8.4-1 | 3632<br>08.04-3 | Severe weather | STP - FSAR revision | | | | confirmatory |
| ##### | 8 | Conf Item | 2389, 08.03.01-11 | FSAR Subsection 9.5.13.8 is not revised to delete item (3).) | STP - Rev 6 revision | | | | confirmatory |
| ##### | 9 | 9.2.2-6 | 3882<br>09.02.02-6 | Adjust refrigerator capacity to chilled water outlet temperature. | STP - FSAR revision | | | | confirmatory |

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|---|---|---|---|---|---|---|---|---|---|
| ##### | 9 | 9.5.1-11 | 4704<br>09.05.01-11 | Change process LC | STP - FSAR revision | | | | confirmatory |
| ##### | 11 | 11.02-10 | 4448, 11.02-10 | The applicant committed to change the reference in the third paragraph of this section to refer to Section 12.2.2.4. This change was not made as this paragraph still states 12.2.2.2. | STP - Rev 6 revision | | | | confirmatory |
| ##### | 11 | 11.02-4 | 2955<br>11.02-4 | FSAR editorial errors regarding compiance with 40 CFR 190 | STP - Rev 6 revision | | | | confirmatory |
| ##### | 11 | 11.02-8 | 3676<br>11.02-8 | CST descriptions | STP - FSAR revision | | | | confirmatory |
| ##### | 12 | Conf Item 12.01-2 | 3014<br>12.01-1 | NEI Template 07-08A not referenced in COL revision | STP - Rev 6 revision | | | | confirmatory |
| ##### | 12 | Conf Item 12.02-3 | 2553<br>12.02-3 | Editorial errors to fix 10 CFR 20 isotope limits in table 12-2-20 | STP - Rev 6 revision | | | | confirmatory |
| ##### | 12 | 12.02-18 | 4492, 12.02-18 5050, 12.02-21 | CST radiation source | STP - FSAR revision | | | | confirmatory |
| ##### | 12 | 12.02-2 | 3795<br>12.02-12<br>12.02-17 | 40 CFR Part 190 | STP - FSAR revision | | | | confirmatory |
| ##### | 12 | 12.02-3 | 3854<br>12.02-13 | Rad source calibration | STP - FSAR revision | | | | confirmatory |
| ##### | 12 | 12.03-12.04-1 | 3857<br>12.03-12.04-12 | CUW backwash | STP - FSAR revision | | | | confirmatory |
| ##### | 12 | 12.03-12.04-2 | 3982<br>12.03-12.04-13 | ARM and airborne monitoring calibration methods | STP - Rev 6 revision | | | | confirmatory |
| ##### | 12 | 12.03-12.04-3 | 4286<br>12.03-12.04-15 | Criticality monitoring compliance with 10 CFR 70.24 or exemption request. | STP - FSAR revision | | | | confirmatory |
| ##### | 12 | 12.03-12.04-4 | 3855<br>12.03-12.04-11 | Operational programs and operating procedures to address 10 CFR 20.1406 and radwaste system piping locations. | STP - FSAR revision | | | | confirmatory |

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|---|---|---|---|---|---|---|---|---|---|
| ##### | 12 | 12.03-12.04-5 | 3981<br>12.03-12.04-14 | FSAR revisions requested for bases, models, assumptions and input data. Response received and pending staff review. | STP - Rev 6 revision | | | | confirmatory |
| ##### | 12 | 12.05-1 | 3856<br>12.05-5 | High rad areas | STP - FSAR revision | | | | confirmatory |
| ##### | 12 | 12.05-2 | 4151<br>12.05-6 | Air samplers | STP - FSAR revision | | | | confirmatory |
| ##### | 13 | 13.03-1 | 3427<br>13.03-73 | Assess TSC radiological consequences | STP - FSAR revision | | | | confirmatory |
| ##### | 13 | TBD | 3271<br>Ltr. 203 | Fitness for Duty<br>2 questions | STP - FSAR revision | | | | confirmatory |
| ##### | 13 | TBD | 4530<br>Ltr. 399 | Cyber Security<br>1 questions | STP - FSAR revision | | | | confirmatory |
| ##### | 13 | TBD | 4974, Ltr.362 Open -17 | 17 RAIs on Physical Loss of Large Areas | STP - FSAR revision | | | | confirmatory |
| ##### | 14 | 14.3.2-8 | 4105<br>14.3.2-10 | ITAAC for structural analysis for as built data | STP - FSAR revision | | | | confirmatory |
| ##### | 14 | 14.3.2-9 | 4105<br>14.3.2-9 | Ext Diesel tanks and vault ITAAC | STP - FSAR revision | | | | confirmatory |
| ##### | 14 | 14.3-1 | RAI 14.03-1 | Tier 1 needs to reflect ITAAC changes, Tables 2.12.1(Item 11), 2.12.12(item 8), 2.12.14(Item 10), and 2.12.15(Item 9) | STP - Rev 6 revision | | | | confirmatory |
| ##### | 14 | TBD | 4861, 14.02-15 | Intermediate stop and intercept valve test abstract update | Closed | | | | confirmatory |
| ##### | 14 | TBD | 4862<br>14.03.07-4 | Update to Tier 1 Section 2.10 (power cycle systems) to make consistent with Tier 2 Section 10.2 | Closed | | | | confirmatory |
| ##### | 16 | 16.1a | n/a | Instrument Set-point Methodology<br>RAI 7.1-15, tied to supp RAI for 7.1-15 | STP - FSAR revision | | | | confirmatory |
| ##### | 16 | 16-14 | 3046, 16-14 | Change "DCD" references to "FSAR" | STP - Rev 6 revision | | | | confirmatory |
| ##### | 16 | 16-21.12 | 3120, 16-21.12 | Bases for SR 3.3.7.1.1 needs to specify 12 hour frequency | STP - Rev 6 revision | | | | confirmatory |
| ##### | 16 | 16-21.22 | 3120, 16-21.22 | % sign missing from methyl iodide penetration value in TS 5.5.7.2 | STP - Rev 6 revision | | | | confirmatory |

# STP Phase 4 Open Items

| Item # | Chp | OI # | RAI # | Description | Next Action | Next Action Completion Date | OI Closure Date | SER Completion Date | OI Status |
|---|---|---|---|---|---|---|---|---|---|
| ##### | 16 | 16-21.4 | 3120, 16-21.4 | STD DEP 16.3-104 needs to be listed in the beginning of Section | STP - Rev 6 revision | | | | confirmatory |
| ##### | 16 | 16-21.8 | 3120, 16-21.8 | PTS SR 3.3.4.2.4 - should use term "SENSOR CHANNEL CHECK" instead of "CHANNEL CHECK" | STP - Rev 6 revision | | | | confirmatory |
| ##### | 16 | 16-3 | 3042, 16-3 | Section 3.1 TS editorial changes | STP - Rev 6 revision | | | | confirmatory |
| ##### | 16 | 16-46 | 3191, 16-46 | GTS LCO 3.8.1 - No new STD DEP identified | STP - Rev 6 revision | | | | confirmatory |
| ##### | 16 | 16-65 | 3973, 16-65 | Division Functional Testing and add "rev 2" to WCAP-17119P reference | STP - Rev 6 revision | | | | confirmatory |
| ##### | 16 | 16-70 | 4826<br>16-70 | Operation with one MSL isolated | STP - Rev 6 revision | | | | confirmatory |
| ##### | 17 | 17.04-10 | 3998,<br>17.04-3, 17.04-10 | In response to RAI 17.04-3 (dated September 28, 2009), STP indicated that it would delete from Section 19K.7 of the STP FSAR the text “circuit breakers that will trip CWS pumps.” However, based on Revision 4 of the FSAR, this text was not deleted. | STP - Rev 6 revision | | | | confirmatory |
| ##### | 17 | 17.04-11 | 3998<br>17.04-11 | Deterministic criteria | STP - FSAR revision | | | | confirmatory |
| ##### | 17 | 17.04-2 | 3089, 17.04-2 | Table 19K-1 needs revised text to replace "Multiplex Transmission Network" to "Essential Communication Function (ECF) CCF" and "Remote Multiplexing Units" to "Remote Digital Logic Controller CCF" | STP - Rev 6 revision | | | | confirmatory |

# STP Phase 4 Open Items

| Item # | Chp | OI # | RAI # | Description | Next Action | Next Action Completion Date | OI Closure Date | SER Completion Date | OI Status |
|---|---|---|---|---|---|---|---|---|---|
| ##### | 17 | 17.04-7 | 3089, 17.04-7 | Late 2010 audit to confirm list of risk significant SSCs | STP - FSAR revision | | | | confirmatory |
| ##### | 17 | 17.04-8 | 3089, 17.04-8 | RAP audit: The D-RAP program procedure provided at the Twinbrook office for the staff's review is based on an outdated version of FSAR Section 17.4. As such, the D-RAP program procedure is outdated. | NRC - Confirmatory item pending RAP audit, draft audit plan sent to STP 9/29/10. Complete audit materials available for review on 2/17/11. | | | | confirmatory |
| ##### | 17 | 17.04-9 | 3998, 17.04-9 | RAP audit: The STP expert panel is to perform system reviews to update the list of risk-significant SSCs. Based on the Expert Panel | NRC - Confirmatory item pending RAP audit, draft audit plan sent to STP 9/29/10. Complete audit materials now available for | | | | confirmatory |
| ##### | 17 | 17.5-9 | 4373<br>17.5-9 | NEI 06-14 incorporation | STP - FSAR revision | | | | confirmatory |
| ##### | 19 | 19-1 | 19.01-13 | Feedwater Line Break Mitigation | STP - FSAR revision | | | | confirmatory |
| ##### | 19 | 19-10 | 19.01-23 | Fire Risk Evaluation in Turbine Building | STP - FSAR revision | | | | confirmatory |
| ##### | 19 | 19-11 | 19-16 | Flushing of RPV Water Level Instrumentation Lines in Mode 4 & 5 | STP - FSAR revision | | | | confirmatory |
| ##### | 19 | 19-12 | 19-30 | MCR Breach Evaluation | STP - FSAR revision | | | | confirmatory |
| ##### | 19 | 19-17 | 19-31 | Demonstrate the Sequence and Plant-Level Seismic HCLPF Capacity | STP - FSAR revision | | | | confirmatory |
| ##### | 19 | 19-2 | 19.01-22 | PRA Level 1 Results | STP - FSAR revision | | | | confirmatory |
| ##### | 19 | 19-3 | 19.01-29 | Medium Voltage Electrical Design | STP - FSAR revision | | | | confirmatory |
| ##### | 19 | 19-4 | 19.01-22 | Evaluation of Common Cause Failures | STP - FSAR revision | | | | confirmatory |
| ##### | 19 | 19-5 | 19-5 | Steam Explosion Potential from Premature Opening of the Drywell Flooder | STP - FSAR revision | | | | confirmatory |
| ##### | 19 | 19-6 | 19-32 | Capability of Containment Isolation Valves | STP - FSAR revision | | | | confirmatory |
| ##### | 19 | 19-8 | 19-3 | Impact of Hydrogen Combustion During Shutdown | STP - FSAR revision | | | | confirmatory |

# STP Phase 4 Open Items

| Item # | Chp | OI # | RAI # | Description | Next Action | Next Action Completion Date | OI Closure Date | SER Completion Date | OI Status |
|---|---|---|---|---|---|---|---|---|---|
| ##### | 19 | Conf Item | RAI 19-14 | STP should correct an editorial error in Table 19.2-2 under STD DEP 12.3-4, “Alarm Capability for Area Radiation Monitors (ARMs),” in the column titled “US ABWR/STP Design Basis.” STP entered the statement: “The ARMs will have alarm capability andNo effect on the PRA, not modeled. five additional monitors are required in the Reactor Building.” The following misplaced text should be removed from that statement: “No effect on the PRA, not modeled.” | STP - Rev 6 revision | | | | confirmatory |
| 1 | 1 | 1-1 | n/a | Tier 1 Departure exemptions | NRC - exemption issuance (depends on completion of all other SER chapters and FEIS) | 2nd Quarter 2011 | | End of P4 | open |
| 2 | 1 | 1-5 | n/a | Financial Qualifications | NRC - Ongoing Review of Rev 5 | | | | open |
| 3 | 2 | 2.4.10-1 | 251, 02.04.10-1 | Flooding parameters important for design of safety related SSCs, MCR Breach | NRC - Confirmatory Calculations | 2/10/2011 | | | open |
| 4 | 2 | 2.4.12-1 | 4551, 02.04.12-49 | Complete evaluation of the Groundwater Model and perform sensitivity analysis. (Qualitative Response) (Final Response) | NRC - Review 2/10/11 response | 3/10/2011 | 3/10/2011 | 3/10/2011 | open |
| 5 | 2 | 2.4.13-1 | n/a | Tie w/closure of OI 2.4.4-1 and 2.4.12-1 | NRC - Review 12/15 and 12/22 responses | 2/9/2011 | 2/9/2011 | 2/9/2011 | open |
| 6 | 2 | 2.4.4-1 | 5101, 02.04.04-14 | Threshold maximum velocity and erosion | NRC - Review 12/22 response | 2/9/2011 | 2/9/2011 | 2/9/2011 | open |
| 7 | 2 | 2.4.4-2 | 5101, 02.04.04-15 | Revised design-basis flood characteristics | NRC - Review 12/22 response | 2/9/2011 | 2/9/2011 | 2/9/2011 | open |
| 8 | 3 | 3.7 and 3.8 | 3.7 and 3.8 RAIS | The open items and RAIs associated with sections 3.7 and 3.8 are being tracked in separate spreadsheets | Section 3.7 has 23 open items<br>Section 3.8 has 13 open items | | | | open |

# STP Phase 4 Open Items

| Item # | Chp | OI # | RAI # | Description | Next Action | Next Action Completion Date | OI Closure Date | SER Completion Date | OI Status |
|---|---|---|---|---|---|---|---|---|---|
| 9 | 3 | 3.09.02-16 | 03.09.02-16 to -43 (5058) | Questions from the August 23-25, 2010 audit of WEC, SWE, Toshiba, and XGEN analyses | STP - To provide letters for each calculation to confirm information from recent audit | 3/3/2011 | 4/3/2011 | 4/3/2011 | open |
| 10 | 3 | 3.09.02-44 | 03.09.02-44 (5256) | Questions from the October 18-19 2010 audit of CVAP, including ACM methodology and license condition | STP - to complete CVAP by 2/28/11 | 2/28/2011 | 3/28/2011 | 3/28/2011 | open |
| 11 | 3 | 3.09.02-45 | 03.09.02-45 (5343) | Table 5.4 of FIV Stress Analysis Report of the Control Rod Guide Tube and Control Rod Drive Housing | STP - Respond to RAI and 1/24-1/26 audit | 2/28/2011 | 3/28/2011 | 3/28/2011 | open |
| 12 | 3 | 3.09.02-46 | 03.09.02-46 (5343) | Tables 5.11 and 5.13 of FIV Stress Analysis Report of the High Pressure Core Flood Sparger and Coupling | STP - Respond to RAI and 1/24-1/26 audit | 2/28/2011 | 3/28/2011 | 3/28/2011 | open |
| 13 | 3 | 3.09.02-47 | 03.09.02-47 (5343) | Section 2.2 of the FIV Stress Analysis Report of the Shroud | STP - Respond to RAI and 1/24-1/26 audit | 2/28/2011 | 3/28/2011 | 3/28/2011 | open |
| 14 | 3 | 3.09.02-48 | 03.09.02-48 (5343) | STP steam dryer modal analysis and Japanese hammer test results | STP - Respond to RAI and 1/24-1/26 audit | 2/28/2011 | 3/28/2011 | 3/28/2011 | open |
| 15 | 3 | 3.09.02-49 | 03.09.02-49 (5343) | Sample pressure spectra on the sub-scale steam dryer | STP - Respond to RAI and 1/24-1/26 audit | 2/28/2011 | 3/28/2011 | 3/28/2011 | open |
| 16 | 3 | 3.09.02-50 | 03.09.02-50 (5343) | Sub-scale dryer pressure spectra compared to Japanese ABWR | STP - Respond to RAI and 1/24-1/26 audit | 2/28/2011 | 3/28/2011 | 3/28/2011 | open |
| 17 | 3 | 3.09.03-6 | 4793, 03.09.03-6 | Complete audit of design specifications. | NRC - Review latest responses and continue to evaluate acceptability of using 2004 Edition of ASME Section III Division 2 for specifications | 2/16/2011 | | | open |
| 18 | 3 | 3.09.06-5 | 2899<br>03.09.06-5, 7, 8, 9, 14, 23<br>5453<br>03.09.06-27, 28 | 1. Compliance with ASME OM Code for 24 month testing of RHR system fill pumps<br>2. Revisions to Table 3.9S-1 | STP - Respond to supplemental RAIs | 3/14/2011 | 4/14/2011 | 4/14/2011 | open |
| 19 | 3 | 3.11-1 | 3328<br>03.11-1, -2, -3, -5, & -6 | Audit of EQ Program in mid-2010 | STP - FSAR revision. Based on Dec 7 audit, STP needs to docket the EER and EQP. | 2/24/2011 | 3/24/2011 | 3/24/2011 | open |
| 20 | 9 | 9.1.1-3 | 4173 - 09.01.01-3 | Criticality analysis will be updated to discuss GE7 fuel | NRC - Review 1/25 response | 2/25/2011 | 2/25/2011 | 2/25/2011 | open |
| 21 | 9 | 9.1.1-4 | 4561, 09.01.01-4 | Basis for WCAP 17311 and 17331: Fuel rack structural analysis | NRC - Review updated WCAPS in 12/9/10, NRC to schedule audit in March 2011 | 1/31/2011 | 2/28/2011 | 3/1/2011 | open |
| 22 | 10 | 10.2-3 | 3008, 10.02-1<br>4103, 10.02-3<br>4860, 10.02-5 | Normal speed control mode | STP - STP to submit updates based on 2/2/11 meeting, need to meet 4/6/11 ACRS schedule | 2/16/2011 | 3/2/2011 | 3/2/2011 | open |
| 23 | 10 | 10.2-4 | 3008, 10.02-2<br>4103, 10.02-4<br>4860, 10.02-6, 7, 8 | Turbine Trip Set-Points | STP - STP to submit updates based on 2/2/11 meeting, need to meet 4/6/11 ACRS schedule | 2/16/2011 | 3/2/2011 | 3/2/2011 | open |

# STP Phase 4 Open Items

| Item # | Chp | OI # | RAI # | Description | Next Action | Next Action Completion Date | OI Closure Date | SER Completion Date | OI Status |
|---|---|---|---|---|---|---|---|---|---|
| 24 | 12 | 12.02-4 | 3984, 12.02-14, 5049, 12.02-20 | Spent Fuel Storage, Chapter 9 related issue, revised calc in reading room | NRC - To propose path forward and STP to revise RAI and FSAR accordingly | 2/16/2011 | | | open |
| 25 | 14 | 14.02-6 | 2898, 14.02-6 | SSC Pre-Op test abstracts. Link to RAI 5256 (OI 3.9.2-44) | STP - STP to submit CVAP reports (tied to Chapter 3) Updates pending 1/24- 1/26 audits | 2/28/2011 | | | open |
| 26 | 14 | 14.02-8 | 3097<br>14.02-8 | SSC start up test program. Link to RAI 5256 (OI 3.9.2-44) | STP - STP to submit CVAP reports (tied to Chapter 3) Updates pending 1/24- 1/26 audits | 2/28/2011 | | | open |
| 27 | 19 | 19-16 | 5167, 19-22 | Housing of ACIWA Equipment | STP - Tied to closure of 19-9 | | | | open |
| 28 | 19 | 19-9 | 19.01-31 | Shared Fire Protection System | STP - Provide revisions based on 2/8/11 meeting, also tied with revisions to RAI 19.03-15 | ? | | | open |
| 29 | 1 | tbd | 5419, 01-20 | AIA and departures | STP - submit RAI response | 2/25/2011 | | | |

**STP Section 3.7 RAI Status** 2/15/2011

| Original RAI | Date of initial RAI | Suppl RAIs | Status of Suppl RAI | Date of Response | Comment | Brief Description of the Issue | Action | Schedule |
|---|---|---|---|---|---|---|---|---|
| 3.7.1-1 | 7/21/2009 RAI 2924 | No | Resolved | 8/20/2009 | Closed/Resolved | Justification for not listing STP DEP T1 5.0-1 under FSAR 3.7 | | |
| 3.7.1-2 | 7/21/2009 RAI 2924 | Yes | See RAI 3915 (03.07.01-15) issued 12/16/09. | 8/20/2009 | "Input Spectra" for damping ratios other than 5% not provided. Time histories do not attenuate to low residual values at the end of duration. See also responses to 03.07.01-13. Proposed FSAR Change in S0 is in R3 of COLA and S1 also involve FSAR changes. Additional information (S2) provided on 9/22/09, and S3 on 5/13/10 | Establishing site-specific SSE design spectra and time history for seismic reconciliation and analysis of site-specific structures | | |
| 3.7.1-3 | 7/21/2009 RAI 2924 | Yes | See RAI 3915 (03.07.01-16) issued 12/16/09. | 9/15/2009 | Requires further clarifications on developing FIRS Proposed FSAR Change. | Details of Development of FIRS and demonstration of meeting 10CFR50 Appendix S | | |
| 3.7.1-4 | 7/21/2009 RAI 2924 | Yes | See RAI 3915 (03.07.01-17) issued 12/16/09. | 9/3/2009 | Further clarification is needed on how backfill was modelled. See also responses to 03.07.01-2 and 03.07.01-2 S1. | Details of Confirmatory seismic analysis including seismic model and results | | |
| 3.7.1-5 | 7/21/2009 RAI 2924 | Yes | See RAI 3915 (03.07.01-18) issued 12/16/09. | 8/20/2009 | Effect of potential increase in seismic soil pressure between RB and CB due to SSSI See also response to 03.07.01-3 and 03.07.01-7. | Consideration of Structure to Structure Interaction in the confirmatory SSI analysis | | |
| 3.7.1-6 | 7/21/2009 RAI 2924 | Yes | See RAI 3915 (03.07.01-19) issued 12/16/09. | 9/15/2009 | Further information is needed on Category I DGFOSV and subgrade analysis parameters and program P-SHAKE. Proposed FSAR Change. | Supporting media for each Category I Structures | | |
| 3.7.1-7 | 7/21/2009 RAI 2924 | Yes | See RAI 3915 (03.07.01-20) issued 12/16/09. | 9/15/2009 | Justification of using high poisson ratio to calculate spring constant. Also the issue needs to be addressed for CB Proposed FSAR Change. | Effect of site-specific shear wave velocity on settlement calc and mat design | | |
| 3.7.1-8 | 7/21/2009 RAI 2924 | No | Resolved | 8/20/2009 | Proposed FSAR Change in R3 of COL. Closed. | Computer programs used for Category I structures | | |
| 3.7.1-9 | 7/21/2009 RAI 2924 | No | Resolved | 8/20/2009 | Refes to 03.07.01-8 and FSAR change already in R3. Closed. | Verification of NASTRAN Program | | |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 3.7.1-10 | 7/21/2009 RAI 2924 (Q11780) | Yes | Refer to Follow-up RAI 3.7.1-2 & 3 | 9/15/2009 | Refer to Follow-up RAI to 3.7.1-2 & 3. Proposed FSAR changes in -02 and -03.Confirmatory. | Establishing site-specific SSE design spectra and time history for seismic analysis of site-specific structures | | |
| 3.7.1-11 | 7/21/2009 RAI 2924 (Q11781) | Yes | See RAI 3915 (03.07.01-21) issued 12/16/09. | 9/3/2009 | Not all the information per acceptance criteria of SRP 3.7.1.II.1B was provided. Proposed FSAR Change. Confirmatory. | Establish site-specific design time history per guidance of SRP Acceptance Criteria 3.7.1.II. 1 B | | |
| 3.7.1-12 | 7/21/2009 RAI 2924 (Q11782) | Yes | See RAI 3915 (03.07.01-22) issued 12/16/09. | 8/20/2009 | Insufficient justification for using SSE damping values for ISRS generation See also responses to 03.07.01-13 and 03.07.01-13 S1. Confirmatory. | | | |
| 3.7.1-13 | 7/21/2009 RAI 2924 (Q11783) | Yes | See RAI 3915 (03.07.01-23) issued 12/16/09. | 8/20/2009 | Additional information is needed to complete review STP is planning to issue supplemental response on 12/31. Proposed FSAR Change in S0 were in R3 of the COL. S1, and S2 responses also involve FSAR changes. Confirmatory. | Information on soil condition, backfill material, foundation dimension, ground water, soil properties per SRP Acceptance Criteria 3.7.1.II.3 for the site-specific Category I structures | | |
| 3.7.1-14 | 7/28/2009 RAI 3283 (Q13029) | Yes | See RAI 3915 (03.07.01-24) issued 12/16/09. | 8/26/2009 | See also responses to 03.07.01-2 S0 and S1. Potential effect on soil pressure and seismic input to adjacent structures Proposed FSAR Change. | Effect of 90 ft concrete retaining wall to be left in place (in close proximity of RB) on SSI analysis | | |
| 3.7.1-15 | 12/16/09 RAI 3915 (Q15158) | Followup to 03.07.01-2 RAI 2924 Q11770) | U7-C-STP-NRC-100035 | 2/4/2010 | Closed/Unresolved. Supplemental responses in other RAI. | | NRC | Early Fin. 7/5/11 |
| 3.7.1-16 | 12/16/09 RAI 3915 (Q15167) | Followup to 03.07.01-3 RAI 2924 Q11771) | U7-C-STP-NRC-100035 | 2/4/2010 | Closed/Unresolved. Supplemental responses in other RAI. | | NRC | Early Fin. 7/5/11 |
| 3.7.1-17 | 12/16/09 RAI 3915 (Q15196) | Followup to 03.07.01-4 RAI 2924 Q11772) | U7-C-STP-NRC-100035 | 2/4/2010 | Supplemented by 03.07.01-25 (RAI 4817, Q18196) | | | |
| 3.7.1-18 | 12/16/09 RAI 3915 (Q15204) | Followup to 03.07.01-5 RAI 2924 Q11774) | U7-C-STP-NRC-100035, 100093 | 2/4/2010 4/30/10 | Supplemented by 03.07.01-26 (RAI 4817, Q18197) | | | |
| 3.7.1-19 | 12/16/09 RAI 3915 (Q15207) | Followup to 03.07.01-6 RAI 2924 Q11775) | U7-C-STP-NRC-100035, 100093 | 2/4/2010 4/30/10 6/7/2010 | Supplemented by 03.07.01-27 (RAI 4817, Q18198) | | | |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 3.7.1-20 | 12/16/09 RAI 3915 (Q 15261) | Followup to 03.07.01-7 RAI 2924 Q11776) | U7-C-STP-NRC-100036 | 2/10/2010 | Supplemented by 03.07.01-28 (RAI 4817, Q18199) | | | |
| 3.7.1-21 | 12/16/09 RAI 3915 (Q 15262) | Followup to 03.07.01-11 RAI 2924 Q11781) | U7-C-STP-NRC-100035 | 2/4/2010 | Closed/Unresolved. Supplemental responses in other RAI. | | NRC | Early Fin. 7/5/11 |
| 3.7.1-22 | 12/16/09 RAI 3915 (Q 15263) | Followup to 03.07.01-12 RAI 2924 Q11782) | U7-C-STP-NRC-100035 | 2/4/2010 | Closed/Unresolved. Supplemental responses in other RAI. | Damping values used for site-specific seismic analysis including justification for using SSE damping values for ISRS generation | STP | 2/23 discussion |
| 3.7.1-23 | 12/16/09 RAI 3915 (Q 15264) | Followup to 03.07.01-13 RAI 2924 Q11783) | U7-C-STP-NRC-100035 | 2/4/2010 | Closed/Unresolved. Supplemental responses in other RAI. | | NRC | Early Fin. 7/5/11 |
| 3.7.1-24 | 12/16/09 RAI 3915 (Q15265) | Followup to 03.07.01-14 RAI 3283 Q13029) | U7-C-STP-NRC-100036, 100083, 100161 | 2/10/2010<br>4/15/2010<br>7/21/2010 | Closed/Unresolved. Supplemental responses in other RAI. | | NRC | Early Fin. 7/5/11 |
| 3.7.1-25 | 6/22/10 RAI 4817 (Q18196) | Followup to 03.07.01-17 RAI 3915 Q15196) | U7-C-STP-NRC-100208, 100253 | 9/15/2010<br>11/30/10 | Under SEB2 evaluation Supplemental responses, including more legible figures, will be provided w/ FSAR revision per 2/2/11 meeting. | Soil pressure. Poisson's ratio. Mansour is planning to perform a confirmatory analysis. Has requested STP to provide input deck. | STP and NRC | Position paper from STP 2/18. NRC request for input deck 2/23. Provide assessment 4 weeks after receipt of input deck. |
| 3.7.1-26 | 6/22/10 RAI 4817 (Q18197) | Followup to 03.07.01-18 RAI 3915 Q15204) | U7-C-STP-NRC-100208 | 9/15/2010 | Under SEB2 evaluation. Supplemental responses will be provided per 2/2/11 mtg. | Soil pressure. RB/CB SSI model. Response is okay but STP will have supplemental information to complete response. | STP | 3/7/2011 |
| 3.7.1-27 | 6/22/10 RAI 4817 (Q18198) | Followup to 03.07.01-19 RAI 3915 Q15207) | U7-C-STP-NRC-100208, 100274 | 9/15/2010<br>12/21/10 | Under SEB2 evaluation. Per 2/2/11 mtg, staff will re-assess and inform STP of decision. Some of the responses will be part of next audit. | UB in-situ soil case. Cracked concrete and empty vs full tank cases. DGFOT is recently submitted and is under review. | STP | 2/18/2011 |
| 3.7.1-28 | 6/22/10 RAI 4817 (Q18199) | Followup to 03.07.01-20 RAI 3915 Q15261) | U7-C-STP-NRC-100208 | 9/15/2010 | Under SEB2 evaluation. Supplemental response to Item 1d expected 1/17/2011. Supplemental responses with FSAR revision will be provided per 2/2/11 mtg. | Spring constant. Mat design. Response is okay but STP will have supplemental response to complete the review. | STP | 3/7/2011 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 3.7.2-1 | 7/21/2009 RAI 2926 (Q11785) | Yes | See RAI 3942 (03.07.02-13) issued 12/16/09 | 9/15/2009 | Incomplete response. Further information is required on stability analysis of non-seismic Category I structures with potential of interaction. Proposed FSAR Change. | Identification and design criteria of non-seismic Category I structures having the potential to interact with Category I structures. | | |
| 3.7.2-2 | 7/21/2009 RAI 2926 (Q11787) | Yes | See RAI 3942 (03.07.02-14) issued 12/16/09 | 9/3/2009 | Incomplete response. Further information is required on seismic analysis methods of site-specific Category I structures. See also responses to 03.07.01-11, 03.07.01-13, and 03.07.01-13 S1. | Requested to provide seismic analysis method for site-specific Category I structures per SRP 3.7.2.II.1 | | |
| 3.7.2-3 | 7/21/2009 RAI 2926 (Q11789) | Yes | See RAI 3942 (03.07.02-15) issued 12/16/09 | 9/3/2009 | Response is incomplete. Further information is required on seismic analysis results for site-specific Category I structures. See also response to 03.07.01-13 S1. | Requested to provide seismic analysis performed for site-specific Category I structures per SRP 3.7.2.II.2 | | |
| 3.7.2-4 | 7/21/2009 RAI 2926 (Q11791) | Yes | See RAI 3942 (03.07.02-16) issued 12/16/09 | 9/15/2009 | Further information is required on analytical modeling of site-specific Category I structures See also responses to 03.07.01-3, 03.07.01-13 S1, and 03.07.02-8. | Requested to provide analytical modeling per guidelines of SRP Acceptance Criteria 3.7.2.II.3 corresponding to the actual seismic analysis performed for site-specific Category I structures | | |
| 3.7.2-5 | 7/21/2009 RAI 2926 (Q11792) | Yes | See RAI 3942 (03.07.02-17) issued 12/16/09 | 9/15/2009 | Response is incomplete. Further information is required on SSI analysis results for site-specific Category I structures. See also responses to 03.07.01-3 and 03.07.01-13 S1. | Requested to provide in the FSAR soil-structure interaction analysis performed for the site-specific structures guidelines of SRP Acceptance Criteria 3.7.2.II.4 | | |
| 3.7.2-6 | 7/21/2009 RAI 2926 | No | Resolved | 8/20/2009 | Refers to 03.07.01-13 and FSAR Change in R3. See also 03.07.01-13 S1. | Procedure used to develop ISRS | | |
| 3.7.2-7 | 7/21/2009 RAI 2926 | No | Resolved | 8/20/2009 | Refers to 03.07.01-13 and FSAR Change in R3. | Procedure used for combining the responses due to three components of earthquake motion for the site-specific Category I structures. | | |

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| 3.7.2-8 | 7/21/2009 RAI 2926 (Q11795) | No | Resolved / Confirmatory | 8/20/2009 | Refers to 03.07.01-13 and 3H.6.5.2.4 not in R3. See also 03.07.01-13 S1. | Procedure used and the amount of peak broadening in accounting the effects of expected variations of structural properties (including effect of potential concrete cracking on structural stiffness), damping values, soil properties, and SSI effects for site-specific Category I structures | | |
| 3.7.2-9 | 7/21/2009 RAI 2926 (Q11797) | No | Resolved / Confirmatory | 9/3/2009 | Refers to 03.07.01-11 and 3H.6.5.2.11 not in R3. | Clarification of the procedure used to account for torsional-effects (including how accidental torsional moment at a particular location is calculated) in the seismic analysis of site-specific Category I structures | | |
| 3.7.2-10 | 7/21/2009 RAI 2926 (Q11798) | Yes | See RAI 3942 (03.07.02-18) issued 12/16/09 | 9/15/2009 | Further information is required on stability analysis of site-specific Category I structures See also responses to 03.07.01-3 and 03.07.01-13 S2 (F/C 12/31) | Clarification of the procedure used in determining seismic overturning moments and sliding forces for site-specific Category I structures in accordance with the guidelines of SRP Acceptance Criteria 3.7.2.II.14. | | |
| 3.7.2-11 | 7/29/2009 RAI 3284 | Yes | See RAI 3942 (03.07.02-19) issued 12/16/09 | 9/9/2009 | Incomplete response. Include the method proposed in the response for establishing the design response spectra for RWB together with the design spectra input for RWB in the FSAR. | Because of the proximity of Reactor Building (RB) to the RWB, the seismic demand/response of RWB may be affected due to structure-to-structure interaction effect. | | |
| 3.7.2-12 | 7/29/2009 RAI 3284 | Yes | See RAI 4818 (03.07.02-22) issued 6/20/10 | 9/9/2009 | Response will be provided in a supplemental response to RAI 03.07.01-13 on 12/31/2009 | Provide the dynamic lateral soil pressures on the exterior walls below grade calculated from the SSI analysis using SASSI for comparison with those of ASCE 4 to ensure that the inertial interaction effect of the structure on the exterior walls is adequately accounted for in the wall design. | | |

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| 3.7.2-13 | 12/16/09 RAI 3942 (Q15324) | Followup to 03.07.02-1 RAI 2926 Q11785) | U7-C-STP-NRC-100036, 100093 ML100550613 | 2/10/2010 4/30/2010 | Response appears okay and no major issue. | Describe in detail the criteria for determining if the failure of non-safety related SSCs will impact the ability of the safety-related SSC to perform its safety function. Also describe the analysis criteria to be used for demonstrating structural integrity of non-seismic Category I SSCs | NRC | Early Fin. 7/5/11 |
| 3.7.2-14 | 12/16/09 RAI 3942 (Q15325) | Followup to 03.07.02-2 RAI 2926 Q11787) | U7-C-STP-NRC-100036 ML100550613 | 2/10/2010 | Supplemented by 03.07.02-23 (RAI 4818 Q18201) | | | |
| 3.7.2-15 | 12/16/09 RAI 3942 (Q15326) | Followup to 03.07.02-3 RAI 2926 Q11789) | U7-C-STP-NRC-100036 ML100550613 | 2/10/2010 | Supplemented by 03.07.02-24 (RAI 4818 Q18225) | | | |
| 3.7.2-16 | 12/16/09 RAI 3942 (Q15327) | Followup to 03.07.02-4 RAI 2926 Q11791) | U7-C-STP-NRC-100036 ML100550613 | 2/10/2010 | Supplemented by 03.07.02-25 (RAI 4818 Q18226) | | | |
| 3.7.2-17 | 12/16/09 RAI 3942 (Q15328) | Followup to 03.07.02-5 RAI 2926 Q11792) | U7-C-STP-NRC-100035 | 2/4/2010 | Supplemented by 03.07.02-26 (RAI 4818 Q18227) | | | |
| 3.7.2-18 | 12/16/09 RAI 3942 (Q15330) | Followup to 03.07.02-10 RAI 2926 Q11798) | U7-C-STP-NRC-100036 ML100550613 | 2/10/2010 | Closed/Unresolved. Supplemental responses in other RAI. | | NRC | Early Fin. 7/5/11 |
| 3.7.2-19 | 12/16/09 RAI 3942 (Q15331) | Followup to 03.07.02-11 RAI 2926 Q13031) | U7-C-STP-NRC-100035, 100093 | 2/4/2010 4/10/2010 | Supplemented by 03.07.02-27 (RAI 4818 Q18228) | | | |
| 3.7.2-20 | 12/16/09 RAI 3942 (Q15716) | New question. No predecessor. | U7-C-STP-NRC-100035 | 2/4/2010 | Response appears okay and no major issue. | | NRC | Early Fin. 7/5/11 |
| 3.7.2-21 | RAI 4392 (Q16760) | New question. No predecessor. | U7-C-STP-NRC-100069 | 3/25/2010 | Supplemented by 03.07.02-28 (RAI 4818 Q18230) | | | |
| 3.7.2-22 | RAI 4818 (Q18200) | Followup to 03.07.02-12 RAI 3284 Q13034) | | | Expect response 1/31/2011. LATE. | | STP | 3/15/2011 |
| 3.7.2-23 | RAI 4818 (Q18201) | Followup to 03.07.02-14 RAI 3942 Q15325) | U7-C-STP-NRC-100208 | 9/15/2010 | Response appears okay and no major issue. | | NRC | Early Fin. 7/5/11 |
| 3.7.2-24 | RAI 4818 (Q18225) | Followup to 03.07.02-15 RAI 3942 Q15326) | U7-C-STP-NRC-100208, 100253, 100268 | 9/15/10, 11/30/10, 12/15/10 | 2/2/11 meeting. Supplemental response to S2 later. Item 1b is okay. Item 1a is under review. See also response to 03.08.04-30. | RSW tunnel 2D SSI model. Passing frequency of 35.9 Hz in Y-axis and 61.6 Hz in X-axis. Cracked concrete. | STP | 3/7/2011 |

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| 3.7.2-25 | RAI 4818 (Q18226) | Followup to 03.07.02-16 RAI 3942 Q15327) | U7-C-STP-NRC-100268 | 12/15/2010 | Discussed in 2/2/11 meeting. STP will supplement response. | SAP2000. Validate shell elements. | STP | 3/15/2011 |
| 3.7.2-26 | RAI 4818 (Q18227) | Followup to 03.07.02-17 RAI 3942 Q15328) | U7-C-STP-NRC-100268 | 12/15/2010 | Under review. No major issues. | | NRC | Early Fin. 7/5/11 |
| 3.7.2-27 | RAI 4818 (Q18228) | Followup to 03.07.02-19 RAI 3942 Q15330) | U7-C-STP-NRC-100268 | 12/15/2010 | Under review. No major issues. | RWB wall pressure. | NRC | Early Fin. 7/5/11 |
| 3.7.2-28 | RAI 4818 (Q18230) | Followup to 03.07.02-21 RAI 4392 Q16760) | | | Expect response 1/31/2011. LATE. | Hydrodynamic mass. | STP | 3/15/2011 |
| 3.7.2-29 | RAI 5226 (Q19474) | | | 1/18/2011 | Discussed in 2/2/11 mtg. Supplemental response pending. | V&V. | STP | 3/15/2011 |
| 3.7.2-30 | RAI 5318 (Q19703) | | | 1/18/2011 | Issued to STP 1/5/2011. Will issue follow-up RAI. | TB MSL FRS | NRC | 2/23/2011 |
| 3.7.3-1 | RAI 2928 (Q11799) | Link to 03.07.03-3 RAI 3943 (15332) | Supplemental RAI 3943 (03.07.03-3) has been issued | 9/15/2009 | provide the results of the SSI analysis as described in the response together with the seismic input motion for the Control Building Annex in the FSAR. Proposed FSAR Change. | Consider effects of structure-to-structure interaction in establishing the acceleration level at the foundation of the CBA during an SSE event | | |
| 3.7.3-2 | RAI 2928 (Q11801) | No | Resolved / Confirmatory | 9/3/2009 | Refere to 03.07.01-11 and 3H.6.5.2.16 not in R3. | Site-specific seismic sub-system analysis procedure. | | |
| 3.7.3-3 | RAI 3943 (Q15332) | Followup to 03.07.03-1 (RAI 2928 Q11799) | U7-C-STP-NRC-090025, 100093 | 12/16/2009 4/30/2010 | Under review. No major issues. | Include results of the SSI analysis together with the seismic input motion for the Control Building Annex in the FSAR. | NRC | Early Fin. 7/5/11 |

**STP Section 3.8 RAI Status** 2/18/2011

| Original RAI | Date of initial RAI | Suppl RAIs | Status of Suppl RAI | Date of Response | Comment | Brief Description of the Issue | Action | Schedule |
|---|---|---|---|---|---|---|---|---|
| 3.8.1-1 | 7/21/2009 RAI 2962 (Q11920) | No | N/A | 9/15/2009 10/28/2009 | Initial partial response reviewed. Proposed FSAR changes confirmed in R4. Status C/R per Samir 2/14/11. | Use of new version of IBC code. Compare 1991 UBC and 2006 IBC requirements in S1. | | |
| 3.8.1-2 | 7/21/2009 RAI 2962 (Q11921) | No | Resolved | 8/20/2009 | | Error in identifying STD DEP 1.8-1 | | |
| 3.8.1-3 | 7/21/2009 RAI 2962 (Q11922) | Yes RAI 4045 Q 15688 | Supp. RAI 4045 (03.08.01-6) sent 12/8 | 9/15/2009 | Proposed FSAR Changes. | Design information for water-tight doors. | | |
| 3.8.1-4 | 7/21/2009 RAI 2962 (Q11923) | Yes RAI 4045 Q 15689 | Supp. RAI 4045 (03.08.01-7) sent 12/8 | 9/15/2009 | Proposed FSAR Changes. | Evaluation of standard plant structures for site-specific flood load. | | |
| 3.8.1-5 | 7/21/2009 RAI 2962 (Q11924) | Yes RAI 4045 Q 15690 | Supp. RAI 4045 (03.08.01-8) sent 12/8 | 9/15/2009 | | Impact of increased Pool Swell loads on containment and internal structures. | | |
| 3.8.1-6 | 12/7/09 RAI 4045 | Followup to 03.08.01-3 (RAI 2962 Q11922) | U7-C-STP-NRC-100018, 100154 | 1/14/2010 6/29/10 | supplemented by 03.08.01-9 (RAI 4832 Q18280) | | | |
| 3.8.1-7 | 12/7/09 RAI 4045 | Followup to 03.08.01-4 (RAI 2962 Q11923) | U7-C-STP-NRC-100018, 100208, 100253 | 1/14/2010, 9/15/10, 11/29/10 | supplemented by 03.08.01-10 (RAI 4832 Q18281) | | | |
| 3.8.1-8 | 12/7/09 RAI 4045 (Q15690) | Followup to 03.08.01-5 (RAI 2962 Q11924) | U7-C-STP-NRC-100018, 100083 | 1/14/2010 4/15/2010 | S1 provided FSAR markup. Confirmed in R4 Part 7 Section 2.3. C/R per Samir 2/14/11. | Effects of revised pool swell loads. | | |
| 3.8.1-9 | 7/9/10 RAI 4832 (Q18280) | Followup to 03.08.01-6 (RAI 4045 Q15688) | U7-C-STP-NRC-100208, 100253 | 9/15/10, 11/29/10 | Discussed in 2/2/11 meeting. Will revise 3.4.3.1 (03.04.02-6); provide clarification for hydrodynamic load (38.8 ft). | Design flood load on watertight doors. | STP | 3/7/2011 |
| 3.8.1-10 | 7/9/10 RAI 4832 (Q18281) | Followup to 03.08.01-7 (RAI 4045 Q15689) | U7-C-STP-NRC-100208, 100253 | 9/15/10, 11/29/10 | See 03.08.01-7 R2 response. FSAR markup not in R4 yet. Status CONFIRMATORY per Samir 2/14/11. | Flood load due to debris. | STP | R6 |
| 3.8.4-1 | 7/21/2009 RAI 2964 | Yes RAI 4046 Q 15691 | Letter 299 RAI 4046 Issued 12/9/09. | 9/15/2009 | Proposed FSAR Changes. Supplemented by 03.08.04-17 (RA 4046 Q15691) | Lateral soil pressure on standard plant structures. | | |
| 3.8.4-2 | 7/21/2009 RAI 2964 | Yes RAI 4046 Q 15693 | Letter 299 RAI 4046 Issued 12/9/09. | 9/15/2009 | Supplemented by 03.08.04-18 (RA 4046 Q15693) | Design information for Radwaste Building structure. | | |
| 3.8.4-3 | 7/21/2009 RAI 2964 | No | Confirmatory. R/C | 8/20/2009 | Proposed FSAR Changes confirmed in Rev 4 FSAR.. | Removal of seismic category I tunnels from Section 3H.5.3. | | |

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| 3.8.4-4 | 7/21/2009 RAI 2964 | No | Resolved/Closed | 8/20/2009 | | Inconsistency in Section 3H.5.5 regarding the code used for RWB structure design. | | |
| 3.8.4-5 | 7/21/2009 RAI 2965 | Yes<br>RAI 4046 Q 15694 | Letter 299 RAI 4046 Issued 12/9/09. | 9/15/2009 | Supplemented by 03.08.04-19 (RA 4046 Q15694) | COL License Information Item 3.23 - Foundation waterproofing. | | |
| 3.8.4-6 | 7/21/2009 RAI 2965 | Yes<br>RAI 4046 Q 15695 | Letter 299 RAI 4046 Issued 12/9/09. | 9/15/2009 | Supplemented by 03.08.04-20 (RA 4046 Q15695) | COL License Information Item 3.25 - Details of Containment Structural Integrity Test. | | |
| 3.8.4-7 | 7/21/2009 RAI 2965 | No | Resolved/Closed | 8/20/2009 | | Discrepancy in designation of Figures, illegible Figures. | | |
| 3.8.4-8 | 7/21/2009 RAI 2965 | No | Resolved/Closed | 8/20/2009 | | Incomplete list of codes and standards in Section 3H.6.4.1. | | |
| 3.8.4-9 | 7/21/2009 RAI 2965 | Yes<br>RAI 4046 Q 15698 | Letter 299 RAI 4046 Issued 12/9/09. | 9/3/2009 | Supplemented by 03.08.04-21 (RA 4046 Q15698) | Consideration of 25% of live load in seismic loading combinations. | | |
| 3.8.4-10 | 7/21/2009 RAI 2965 | Yes<br>RAI 4046 Q 15699 | Letter 299 RAI 4046 Issued 12/9/09. | 8/20/2009 | Supplemented by 03.08.04-22 (RA 4046 Q15699) | Including extreme snow load as an extreme environmental load in Section 3H.6.4.3.3. | | |
| 3.8.4-11 | 7/21/2009 RAI 2965 | No | N/A | 9/15/2009<br>12/31/2009 | See also responses to 03.07.01-3 and 03.07.01-13S2 (F/C 12/31/09). No supplemental RAI. C/R per Samir 2/14/11. | Performing overall damage prediction due to tornado loads. | | |
| 3.8.4-12 | 7/21/2009 RAI 2965 | Yes<br>RAI 4046 Q 15700 | Letter 299 RAI 4046 Issued 12/9/09. | 8/20/2009 | See also response to 03.07.01-13. Supplemented by 03.08.04-23 (RAI 4046 Q15700) | Incomplete list of loads for design of site-specific structures. | | |
| 3.8.4-13 | 7/21/2009 RAI 2965 | Yes<br>RAI 4046 Q 15701 | Letter 299 RAI 4046 Issued 12/9/09. | 8/20/2009<br>12/31/2009 | See also responses to 03.07.01-13, 03.07.01-13S1, and 03.07.01-13S2 (F/C 12/31/09) Supplemented by 03.08.04-24 (RAI 4046 Q15701) | Structural analysis and design information for all site-specific seiamic category I structures. | | |
| 3.8.4-14 | 8/19/2009 RAI 3323 | Yes<br>RAI 4046 Q 15702 | Letter 299 RAI 4046 Issued 12/9/09. | 9/16/2009 | Supplemented by 03.08.04-25 (RA 4046 Q15702) | Extreme snow load for standard plant structures. | | |
| 3.8.4-15 | 8/19/2009 RAI 3323 | Yes<br>RAI 4046 Q 15703 | Letter 299 RAI 4046 Issued 12/9/09. | 10/5/2009 | See also responses to 03.07.01-3 and 03.07.01-13. Supplemented by 03.08.04-26 (RAI 4046 Q15703) | Design of interface between Service Water Tunnel and Control Building and Pump House. | | |
| 3.8.4-16 | 8/19/2009 RAI 3323 | Yes<br>RAI 4046 Q 15704 | Letter 299 RAI 4046 Issued 12/9/09. | 9/16/2009 | Supplemented by 03.08.04-27 (RA 4046 Q15774) | Modeling of hydrodynamic loads for UHS basin. Also, not listing thermal and flood loads for design of UHS structure. | | |

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| 3.8.4-17 | 12/9/09 RAI 4046 | Followup to 03.08.04-1 (RAI 2964 Q11925) | U7-C-STP-NRC-100036 ML100550613 | 2/10/2010 | Supplement to 03.08.04-1. Discussed in 2-2-11 mtg. Supp. response with clarification and FSAR markup pending. STP F/C 3/4/11 week. | Lateral soil pressure (audit item 3.8-9) | STP | 3/7/2011 |
| 3.8.4-18 | 12/9/09 RAI 4046 | Followup to 03.08.04-2 (RAI 2964 Q11926) | U7-C-STP-NRC-100036 ML100550613, 100124, 100193, 100208 | 2/10/2010 6/2/2010 8/19/10 9/15/10 | Supplement to 03.08.04-2 Discussed in 2/2/11 mtg. Supplemental response, incl revision to 3H.3.5.3. Staff to confirm no action needed to address tornado load. STP F/C 3/4/ week. | Radwaste bldg seismic load combination and flood and tornado design. | STP | 3/15/2011 |
| 3.8.4-19 | 12/9/09 RAI 4046 | Followup to 03.08.04-5 (RAI 2965 Q11929) | U7-C-STP-NRC-100036, 100093 ML100550613 | 2/10/2010 4/30/2010 | Supplement to 03.08.04-5. Supplemented by 03.08.04-28 (RAI 4833 Q18282) | | | |
| 3.8.4-20 | 12/9/09 RAI 4046 | Followup to 03.08.04-9 (RAI 2965 Q11933) | U7-C-STP-NRC-100035 | 2/4/2010 | Supplement to 03.08.04-6. FSAR markup confirmed in R4 but need to check UHS design parameters removed in R4 but shown in response. C/R per Samir 2/14/11. | Use of a reduced live load in the seismic load combination. | | |
| 3.8.4-21 | 12/9/09 RAI 4046 | Followup to 03.08.04-10 (RAI 2965 Q11934) | U7-C-STP-NRC-100035 | 2/4/2010 | Supplement to 03.08.04-10. FSAR mark-up confirmed in R4. C/R per Samir 2/14/11. | Roof load (47 lbs/ft2) for roof design. | | |
| 3.8.4-22 | 12/9/09 RAI 4046 | Followup to 03.08.04-12 (RAI 2965 Q11937) | U7-C-STP-NRC-100036 ML100550613, 100208 | 2/10/2010 9/15/10 | Supplement to 03.08.04-10. Supplemented by 03.08.04-29 (RAI 4833 Q 18283) | | | |
| 3.8.4-23 | 12/9/09 RAI 4046 | Followup to 03.08.04-13 (RAI 2965 Q11938) | U7-C-STP-NRC-100036 ML100550613 | 2/10/2010 | Supplement to 03.08.04-12. Supplemented by 03.08.04-30 (RAI 4833 Q18284) | | | |
| 3.8.4-24 | 12/9/09 RAI 4046 | Followup to 03.08.04-14 (RAI 3323 Q13167) | U7-C-STP-NRC-100035 | 2/4/2010 | Supplement to 03.08.04-14. Refer to Table 2.0-2 in 03.08.04-21. C/R per Samir 2/14/11. | Max parapet height is 9" for Cat I which limits max load be 47 lbs/ft2 in extreme winter conditions. | | |
| 3.8.4-25 | 12/9/09 RAI 4046 | Followup to 03.08.04-15 (RAI 3323 Q13168) | U7-C-STP-NRC-100036 ML100550613, 100083 | 2/10/2010 4/15/2010 5/13/2010 | Supplement to 03.08.04-15. Supplemented by 03.08.04-31 (RAI 4833 Q18185) | | | |
| 3.8.4-26 | 12/9/09 RAI 4046 | Followup to 03.08.04-16 (RAI 3323 Q13169) | U7-C-STP-NRC-100035 | 2/4/2010 | Supplement to 03.08.04-16. FSAR markup confirmed in R4 except typo and editorial errors in 4th bullet. C/R per Samir 2/14/11. | Include hydrodynamic loads of UHS in FSAR. | | |
| 3.8.4-27 | 12/9/09 RAI 4046 | Followup to 03.08.04-6 (RAI 2965 Q11930) | U7-C-STP-NRC-100036 ML100550613 | 2/10/2010 | Supplement to 03.08.04-6. Supplemented by 03.08.04-32 (RAI 4833 Q18286) | | | |

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| 3.8.4-28 | 7/9/10 RAI 4833 | Followup to 03.08.04-19 (RAI 4046 Q15694) | U7-C-STP-NRC-100208 | 9/15/2010 | Discussed in 2/2/11 mtg. Add words to 3.8.6.1. Check Table 2.5S-37B for consistency and submit supplemental response. STP F/C 3/4/week. | Foundation waterproofing. | STP | 3/7/2011 |
| 3.8.4-29 | 7/9/10 RAI 4833 | Followup to 03.08.04-22 (RAI 4046 Q15699) | U7-C-STP-NRC-100208 | 9/15/2010 | Discussed in 2-2-11 mtg. Will revise response on 3H.6.4.3.4. STP F/C 3/4 week. | Loading on site-specific Cat 1 structures. | STP | 3/7/2011 |
| 3.8.4-30 | 7/9/10 RAI 4833 | Followup to 03.08.04-23 (RAI 4046 Q15700) | U7-C-STP-NRC-110008 | 1/17/11 | Parts 1, 2a, 2b, & 3-7 expected 2/20/2011 or mabe mid-March. Part 8, 9, and 10 responses rec'd 1/17/2011. Samir will coordinate w/ Peter on responses rec'd. | Steel and concrete of SS structure design. Response refers to 03.07.01-13 for design summary info. | STP | 3/15/2011 |
| 3.8.4-31 | 7/9/10 RAI 4833 | Followup to 03.08.04-25 (RAI 4046 Q15702) | U7-C-STP-NRC-100208<br>U7-C-NINA-NRC-110008 | 9/15/2010<br>1/31/11 | FSAR 3H.6.8 in original response & T 3H.6-15 in supplement. Supplement 2 for Part 2 expected 1/17/2011. Discussed in 2/2/11 mtg. STP F/C 3/4 week. | SSI between DGFOT and Cat 1 structures. 2/2 mtg refers to 03.04.02-6 and future revision to Section 3.4.3.1. | STP | 3/7/2011 |
| 3.8.4.32 | 7/9/10 RAI 4833 | Followup to 03.08.04-27 (RAI 4046 Q15774) | U7-C-STP-NRC-100208 | 9/15/2010 | Discussed in 2/2/11 mtg. STP action 3/4/11 week. | COL Item 3.25 (SIT) info. Response completely supercedes 03.08.04-6 and -27. Supplemental response later. | STP | 3/7/2011 |
| 3.8.4.33 | 7/9/10 RAI 4833 | New RAI | U7-C-STP-NRC-100208 | 9/15/2010 | Discussed in 2/2/11 mtg. STP action. | Use of 1997 ACI 349 impact on existing design. OGC agreed with staff. | STP | 2/28/2011 |
| Q389 | | New RAI | | | Discussed in 2/2/11 mtg. | UHS concrete design. Averaging in and out of plane shears. Samir will concult Peter to decide next step. Will issue RAI. | NRC | 2/24/2011 |
| Q3810 | | New RAI | | | Discussed in 2/2/11 mtg. STP action. | UHS soil bearing pressure calc methodolody should be the same as for design of basemat & stability of structures. STP will consult MacTec. Issue RAI and have telecon prior to response. | NRC | 2/24/2011 |
| Q3811 | | New RAI | | | Discussed in 2/2/11 mtg. | UHS soil bearing pressure, wind & tornado loads. PM will coordinate with 2.5.4 lead. Hold RAI and use audit to document if necessary. | NRC | March audit |

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| 3.8.5-1 | 8/24/2009 RAI 3324 | Yes<br>RAI 4048 Q 15704 | Supp. RAI 4048 (03.08.05-2) sent 12/8 | 9/22/2009<br>12/31/2009 | Partial response provided and reviewed. Final response due. See also responses to 03.07.02-4, -5, -10, and 03.07.01-13S2 (F/C 12/31/09) | Design and stability evaluation of foundations for site-specific seismic category I structures. | | |
| 3.8.5-2 | 12/8/09 RAI 4048 (Q15704) | Link to RAI 3324 (Q13170) | LTR 297 sent 12/8/09 | 1/14/2010<br>4/15/2010<br>5/13/2010 | Supplemented by 03.08.05-4 (RAI 4834 Q18288) | COL License Information Item 3.24 - Foundation settlement. | | |
| 3.8.5-3 | 12/8/09 RAI 4048 (Q15717) | No | LTR 297 sent 12/8/09 | 1/14/2010<br>4/15/2010 | Supplemented by 03.08.05-5 (RAI 4834 Q18289) | | | |
| 3.8.5-4 | 7/9/10 RAI 4834 | Follow-up to 03.08.05-2 (4048 Q15704) | U7-C-STP-NRC-100208, 100248 | 9/15/10 11/17/10 | Supp response provided FSAR markup to 3H.6.6.4, 3H.6.7, and 3H.6.9 | COL License Information Item 3.24 - Foundation settlement. | NRC | 6/6/2011 |
| 3.8.5-5 | 7/9/10 RAI 4834 | Follow-up to 03.08.05-3 (4048 Q15717) | U7-C-STP-NRC-100208, 100248 | 9/15/10 11/17/10 | Supp response provided FSAR markup to 3H.1.6 and 3H.2.6. | COL License Information Item 3.24 - Foundation settlement differential. | NRC | 6/6/2011 |