

## PMTurkeyCOLPEm Resource

---

**From:** Comar, Manny  
**Sent:** Tuesday, April 28, 2015 11:10 AM  
**To:** Candelario, Luisette; Heeszel, David; Karas, Rebecca; Patel, Pravin; Plaza-Toledo, Meralis; Seber, Dogan; Stieve, Alice; Thomas, Vaughn; Walsh, Lisa; Xi, Zuhan; Xu, Jim  
**Cc:** Segala, John; Comar, Manny; TurkeyCOL Resource  
**Subject:** FW: Updated ASER FSAR chapter Review Matrix  
**Attachments:** 20150427\_ASER\_FSAR\_CHAP\_Review\_Matrix.docx

Rebecca:

Attached is the status copy of the updated schedule for completion of the Section 2.5 RAIs. No dates have been extended except that it shows the actual dates when the response have been completed and also shows the information that has been received.

Please let me know if anything stated there has not been received by the staff.

Thanks

---

**From:** Franzone, Steve [mailto:Steve.Franzone@fpl.com]  
**Sent:** Tuesday, April 28, 2015 9:46 AM  
**To:** Comar, Manny  
**Cc:** Burski, Raymond; Maher, William  
**Subject:** Updated ASER FSAR chapter Review Matrix

I have attached the updated FSAR Chapter review matrix which includes our target & actual schedules for the most recent round of FSAR 2.5.1 & 2.5.4 RAIs.

Any questions, please call.

Thanks

Steve Franzone

NNP Licensing Manager - COLA

"Better to light a candle than to curse the darkness." ~ Chinese Proverb

561.694.3209 (office)

754.204.5996 (cell)

"This transmission is intended to be delivered only to the named addressee(s) and may contain information that is confidential and /or legally privileged. If this information is received by anyone other than the named addressee(s), the recipient should immediately notify the sender by E-MAIL and by telephone (561.694.3209) and permanently delete the original and any copy, including printout of the information. In no event shall this material be read, used, copied, reproduced, stored or retained by anyone other than the named addressee(s), except with the express consent of the sender or the named addressee(s).

**Hearing Identifier:** TurkeyPoint\_COL\_Public  
**Email Number:** 1009

**Mail Envelope Properties** (377CB97DD54F0F4FAAC7E9FD88BCA6D0021E7B2F57F9)

**Subject:** FW: Updated ASER FSAR chapter Review Matrix  
**Sent Date:** 4/28/2015 11:10:12 AM  
**Received Date:** 4/28/2015 11:10:15 AM  
**From:** Comar, Manny

**Created By:** Manny.Comar@nrc.gov

**Recipients:**

"Segala, John" <John.Segala@nrc.gov>  
Tracking Status: None  
"Comar, Manny" <Manny.Comar@nrc.gov>  
Tracking Status: None  
"TurkeyCOL Resource" <TurkeyCOL.Resource@nrc.gov>  
Tracking Status: None  
"Candelario, Luisette" <Luisette.Candelario@nrc.gov>  
Tracking Status: None  
"Heeszal, David" <David.Heeszal@nrc.gov>  
Tracking Status: None  
"Karas, Rebecca" <Rebecca.Karas@nrc.gov>  
Tracking Status: None  
"Patel, Pravin" <Pravin.Patel@nrc.gov>  
Tracking Status: None  
"Plaza-Toledo, Meralis" <Meralis.Plaza-Toledo@nrc.gov>  
Tracking Status: None  
"Seber, Dogan" <Dogan.Seber@nrc.gov>  
Tracking Status: None  
"Stieve, Alice" <Alice.Stieve@nrc.gov>  
Tracking Status: None  
"Thomas, Vaughn" <Vaughn.Thomas@nrc.gov>  
Tracking Status: None  
"Walsh, Lisa" <Lisa.Walsh@nrc.gov>  
Tracking Status: None  
"Xi, Zuhan" <Zuhan.Xi@nrc.gov>  
Tracking Status: None  
"Xu, Jim" <Jim.Xu@nrc.gov>  
Tracking Status: None

**Post Office:** HQCLSTR01.nrc.gov

| <b>Files</b>                               | <b>Size</b> | <b>Date &amp; Time</b> |
|--|-------------|------------------------|
| MESSAGE                                    | 1594        | 4/28/2015 11:10:15 AM  |
| 20150427_ASER_FSAR_CHAP_Review_Matrix.docx | 42821       |                        |

**Options**

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

**Recipients Received:**

## ASER FSAR CHAPTER REVIEW STATUS MATRIX

| FSAR Chapter | Safety Eval. Received Date | Associated ML#                            | Open Items/Remaining Actions to Complete Safety Evaluation   |
|--------------|----------------------------|---|--|
| 1            |                            |   | Hold for open chapters<br>1. COD date changes(Rev. 7)-FPL  |
| 2            |                            |   | 1. Received RAIs for 2.5.1 ( Separate sheet attached)<br>2. Received RAIs for 2.5.4 ( Separate sheet attached)<br>3. Provide source of equation & /constants in FSAR Sec 2.2.3.1.1.7 (TBD, FPL) – Still Required?  |
| 3            |                            |   | 1. Received new RAIs 3.8.5-3 – Due 4/30  |
| 4            | 05/08/2013                 |   | No Open Items  |
| 5            | 05/06/2014                 |   | No Open Items  |
| 6            |                            |   | 1. ISG-11 Hydrogen Venting – Generic response will follow after Duke-Levy submittal (FPL)<br>Impacts Part 2, FSAR (Ch. 6), Part 10, ITAAC<br>2. ISG-11 MCR Dose – Generic response will follow after Duke-Levy submittal (FPL)<br>Impacts Part 2, FSAR (Ch. 1, 3, 6, 7, 9, 11,12, 14, 15), Part 4, Tech. Specs, Part 7, Exemptions (Tier 1 changes), Part 10, ITAAC<br>3. ISG-11 MCR Heat-up – Generic response will follow after Duke-Levy submittal (FPL)<br>Impacts Part 2, FSAR (Ch. 3, 6, 7, 9, 14), Part 4, Tech. Specs.<br>4. ISG-11 Condensate Return Header– Generic response will follow after Duke-Levy submittal (FPL)<br>Impacts Part 2, FSAR (Ch. 1, 3, 5, 6, 14,16, 19), Part 4, Tech. Specs, Part 7, Exemptions (Tier 1 changes), Part 10, ITAAC |
| 7            | 05/08/2013                 |   | No Open Items  |
| 8            |                            |   |  |
| 9            |                            |   |  |
| 10           | 05/06/2014                 |   | No Open Items  |
| 11           |                            |   | 1. Inconsistent with Standard Response (11.4, Solid Waste) – Still Required  |
| 12           |                            |   |  |
| 13           |                            |   | 1. Update SNMPPP & Chap. 13 Table(x/xx)-FPL<br>Next step would be to hold a clarification call to discuss differences between greenfield site and existing site  |
| 14           | 10/03/2013                 | ML13207A396<br>ML13207A381<br>ML12262A163 | No Open Items  |
| 15           | 07/23/2013                 | ML13074A087<br>ML13074A076<br>ML12262A193 | No Open Items  |
| 16           | 05/08/2013                 |   | No Open Items  |
| 17           | 07/24/2013                 | ML13074A125                               | No Open Items  |

## ASER FSAR CHAPTER REVIEW STATUS MATRIX

|                         |            |   |  |
|-------------------------|------------|---|--|
|                         |            | ML13074A108<br>ML12262A238                |  |
| 18                      | 07/24/2013 | ML13101A081<br>ML13101A063<br>ML12262A247 | No Open Items  |
| 19                      |            |   | Hold for open chapters<br>1. FSAR update seismic margin calc. based on additional 2.5.4 work (date 5/21, FPL)                                    |
| 20<br>Fukushima         |            |   | 1. SFP Lic. Condition maybe revised by NRC<br>2. Mitigative Strategies Lic. Condition for -maybe revised/ 2 years is acceptable to FPL (NRC/FPL) |
| LEVY<br>/APOG<br>Issues |            |   | 1. Mitigating Strategies for Beyond Design Basis External Events in support of Fukushima NTTTF requirements. Follow Levy submittal. (TBD, FPL)   |
| MISC Issues             |            |   | 1. NSIR Site visit?<br>2. Identify CCS Freshening Impact, if any(Hold for final Admin Order)-FPL   |

## ASER FSAR CHAPTER REVIEW STATUS MATRIX

| <b>2.5.1 Response Schedules (eRAI 7804)</b> |  |                                     |
|---|--|-------------------------------------|
| <b>RAI</b>                                  | <b>Response Approach</b>   | <b>Target//Actual Response Date</b> |
| 02.05.01-34                                 | <ul style="list-style-type: none"> <li>• Address new information in Kula (2014) paper and other published authors</li> <li>• Conduct SSHAC</li> <li>• Conduct seismic hazard sensitivity study</li> <li>• Provide discussion in the response to RAI</li> </ul> | 07/15/2015                          |
| Supporting Information                      | <ul style="list-style-type: none"> <li>• Place SSHAC Questionnaire examples and list of experts contacted/to be contacted in electronic reading room</li> </ul>  | <b>04/13/15//04/13/15A</b>          |
| Supporting Information                      | <ul style="list-style-type: none"> <li>• Place preliminary SSHAC Study Results in electronic reading room</li> </ul>   | <b>04/23/15//04/23/15A</b>          |
| Supporting Information                      | <ul style="list-style-type: none"> <li>• Place SSHAC Study results in electronic reading room</li> </ul>   | 04/30/2015                          |
| 02.05.01-35                                 | <ul style="list-style-type: none"> <li>• Update Phase 2 Earthquake Catalog to include smaller Cuba earthquakes</li> <li>• Provide figures and discussion in the response to RAI</li> </ul>   | 06/09/2015                          |
| Supporting                                  | <ul style="list-style-type: none"> <li>• Place updated Phase 2 Earthquake Catalog (Calculation #74) in electronic reading room</li> </ul>  | <b>04/23/15//04/16/15A</b>          |
| 02.05.01-36                                 | <ul style="list-style-type: none"> <li>• Address new information in Cunningham et al. (2012), and related literature</li> <li>• Provide discussion in the response to RAI</li> <li>• Include new figure</li> </ul>   | 05/22/2015                          |
| 02.05.01-37                                 | <ul style="list-style-type: none"> <li>• Address information in Klimchouk,(2009) and other related literature</li> <li>• Provide discussion in the response to RAI</li> <li>• Include new figure</li> </ul>  | 05/22/2015                          |

| <b>2.5.4 Response Schedules (eRAI 7811)</b> |   |                                    |
|---|---|------------------------------------|
| <b>RAI</b>                                  | <b>Response Approach</b>  | <b>Target/Actual Response Date</b> |
| 02.05.04-26                                 | <ul style="list-style-type: none"> <li>• Geophysical survey vendor specifies the critical void size for detection</li> <li>• Perform static and dynamic finite element analysis to determine impact of critical void size on NI stability</li> <li>• Include ITAAC for acceptance criteria on voiding beneath the NI</li> </ul> | 06/17/2015                         |
| 02.05.04-27                                 | <ul style="list-style-type: none"> <li>• Provide discussion in response to RAI on grout inspection and testing</li> <li>• Include ITAAC for shear wave velocity</li> </ul>  | 04/30/2015                         |
| 02.05.04-28                                 | <ul style="list-style-type: none"> <li>• Provide reasoning for why lower blow counts in the initial investigation</li> <li>• Include corrected and measured blow count figures from presentation in FSAR</li> </ul>   | <b>04/07/15//04/10/15A</b>         |
| 02.05.04-29                                 | <ul style="list-style-type: none"> <li>• Provide clarification of engineering parameters or engineering analyses that are developed based on and/or not based on the overall pool of "SPT N" values in the RAI response</li> <li>• Add additional detail in the FSAR</li> </ul>   | <b>04/17/15//04/17/15A</b>         |

## ASER FSAR CHAPTER REVIEW STATUS MATRIX

|                        |   |                     |
|------------------------|---|---------------------|
| 02.05.04-30            | <ul style="list-style-type: none"> <li>The results of a sensitivity analysis of the uniformity calculation with LB parameters for one half and UB parameters for the other half will be provided in the RAI response</li> </ul>   | 04/17/15//04/17/15A |
| Supporting Calculation | <ul style="list-style-type: none"> <li>Place sensitivity analysis calculation in electronic reading room</li> </ul>   | 04/17/15//04/17/15A |
| 02.05.04-31            | <ul style="list-style-type: none"> <li>Provide more detail in FSAR from ACI 207</li> <li>ACI 318 provides maximum water-cementitious material ratio and minimum concrete strength for Type V sulfate resisting cement</li> <li>Requirement will be provided for the first lift of concrete fill</li> </ul>                      | 04/07/15//04/10/15A |
| 02.05.04-32            | <ul style="list-style-type: none"> <li>RAI response to provide information on the available amount of onsite Category I fill available</li> <li>Include ITAAC for onsite backfill compaction.</li> <li>Include ITAAC for offsite backfill compaction</li> <li>Include ITAAC for offsite backfill chemical properties</li> </ul> | 04/24/15//04/17/15A |
| 02.05.04-33            | <ul style="list-style-type: none"> <li>RAI response to provide ITAAC for fill</li> </ul>  | 04/29/15//04/27/15A |
| 02.05.04-34            | <ul style="list-style-type: none"> <li>RAI response to provide info on Mechanically Stabilized Earth (MSE) wall</li> </ul>  | 03/20/15//03/20/15A |
| 02.05.04-35            | <ul style="list-style-type: none"> <li>RAI response to demonstrate the analysis is extremely conservative and factors of safety are actually higher</li> </ul>  | 04/27/15//04/27/15A |
| 02.05.04-36            | <ul style="list-style-type: none"> <li>RAI response to provide a sensitivity analysis of the settlement hand calculation. The 3D finite element model analysis will be performed to consider lower bound properties for all layers.</li> </ul>  | 04/30/2015          |
| Supporting Calculation | <ul style="list-style-type: none"> <li>Place sensitivity and 3D finite element model analyses in electronic reading room (to extent possible)</li> </ul>  | 04/30/2015          |
| 02.05.04-37            | <ul style="list-style-type: none"> <li>Provide additional details similar to those in the Levy COL Application.</li> </ul>  | 04/09/15//04/10/15A |

| <b>Chapter 19 Site Specific Seismic Margin Analysis (voluntary response)</b> |   |                                    |
|--|---|------------------------------------|
|  | <b>Response Approach</b>  | <b>Target/Actual Response Date</b> |
| FSAR Subsection 19.55.6.3  | <ul style="list-style-type: none"> <li>Provide voluntary response with FSAR mark-ups for FSAR Subsection 19.55.6.3</li> </ul> | 05/21/2015                         |
| Supporting Calculation   | <ul style="list-style-type: none"> <li>Place Site Specific Seismic Margin Analysis in electronic reading room</li> </ul>      | 04/17/15//04/17/15A                |