

## **PMTurkeyCOLPEm Resource**

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**From:** Orthen, Richard [Richard.Orthen@fpl.com]  
**Sent:** Monday, August 03, 2015 11:54 AM  
**To:** Comar, Manny  
**Cc:** Burski, Raymond; Franzone, Steve; Maher, William; TurkeyCOL Resource  
**Subject:** [External\_Sender] ASER FSAR CHAPTER REVIEW STATUS MATRIX - 8/3/15  
**Attachments:** image001.gif; 20150803\_ASER\_FSAR\_CHAP\_Review\_Matrix.docx

Manny,

Attached is the subject matrix, updated through today.

Thanks.

Rick

**Hearing Identifier:** TurkeyPoint\_COL\_Public  
**Email Number:** 1054

**Mail Envelope Properties** (AC64FC620563494A9FBAD712DBEE56703098D43D)

**Subject:** [External\_Sender] ASER FSAR CHAPTER REVIEW STATUS MATRIX - 8/3/15  
**Sent Date:** 8/3/2015 11:54:07 AM  
**Received Date:** 8/3/2015 11:54:10 AM  
**From:** Orthen, Richard

**Created By:** Richard.Orthen@fpl.com

**Recipients:**

"Burski, Raymond" <RAYMOND.BURSKI@fpl.com>  
Tracking Status: None  
"Franzone, Steve" <Steve.Franzone@fpl.com>  
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"Comar, Manny" <Manny.Comar@nrc.gov>  
Tracking Status: None

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Files	Size	Date & Time
MESSAGE	93	8/3/2015 11:54:10 AM
image001.gif	1422	
20150803_ASER_FSAR_CHAP_Review_Matrix.docx	51908	

**Options**

**Priority:** Standard  
**Return Notification:** No  
**Reply Requested:** No  
**Sensitivity:** Normal  
**Expiration Date:**  
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## 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 1. COD date changes to June 2027 (Unit 6) & June 2028 (Unit 7)(Rev. 7)-FPL
2			1. RAIs& revisions for 2.5.1 ( Separate sheet attached) 2. RAIs & revisions for 2.5.4 ( Separate sheet attached) 3. Provide source of equation & /constants in FSAR Sec 2.2.3.1.1.7 – Complete
3			1. Provide calculations associated with Hurricane Missile RAI 3.5.3-34 – <b>Calculations are available at WEC Office in Rockville.</b> 2. NRC Audit: Week of June 22 <sup>nd</sup> , 2015– Complete, Follow-up actions in yellow highlights 3. Update Sec. 3.7 to address “2 over 1” issue ( Separate sheet attached) 4. Update RAI 3.7.1-15 (Separate sheet attached)
4	05/08/2013		No Open Items
5	05/06/2014		No Open Items
6			1. ISG-11Hydrogen Venting – Generic response will followafter Duke-Levy submittal (FPL) Impacts Part 2, FSAR (Ch. 6), Part 10, ITAAC 2. ISG-11 MCR Dose – Generic response will follow after Duke-Levy submittal (FPL) 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 3. ISG-11 MCR Heat-up – Generic response will follow after Duke-Levy submittal (FPL) Impacts Part 2, FSAR (Ch. 3, 6, 7, 9, 14), Part 4, Tech. Specs. 4. ISG-11 Condensate Return Header– Generic response will follow after Duke-Levy submittal (FPL) 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			SE in review
9			
10	05/06/2014		No Open Items
11			SE readied for reviewwith two COLA Rev. 7 Confirmatory Items
12	07/20/2015		No Open Items
13			1. Update SNMPPP & Chap. 13 Table based on existing site(August, FPL)
14	10/03/2013	ML13207A396 ML13207A381 ML12262A163	No Open Items
15	07/23/2013	ML13074A087 ML13074A076	No Open Items

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		ML12262A193	
16	05/08/2013		No Open Items
17	07/24/2013	ML13074A125 ML13074A108 ML12262A238	No Open Items
18	07/24/2013	ML13101A081 ML13101A063 ML12262A247	No Open Items
19			Hold for open chapters
20 Fukushima			1. SFP Lic. Condition maybe revised by NRC 2. Mitigative Strategies Lic. Condition for -maybe revised/ 2 years is acceptable to FPL (NRC/FPL)
LEVY /APOG Issues			1. Mitigating Strategies for Beyond Design Basis External Events in support of Fukushima NTTF requirements. Follow Levy submittal. (July, FPL)
MISC Issues			1. NSIR Site visit? 2. Identify CCS Freshening Impact, if any(Hold for final Admin Order)-FPL

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2.5.1 Response Schedules (eRAI 7804)			
RAI	Response Approach	Target Response Date	Actual Response Date
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> <li>• Discuss final Questionnaire at Public meeting to be held on 7/2/15&amp; 7/9/15</li> </ul> <p>*Target Early submittal date is 7/10/2015</p>	07/15/15*	Met
Supporting Information	• Place SSHAC Questionnaire examples and list of experts contacted/to be contacted in electronic reading room	04/13/15	Met
Supporting Information	• Place preliminary SSHAC Study Results in electronic reading room	04/23/15	Met
Supporting Information	• Place SSHAC Study results in electronic reading room	04/30/15	Met
Supporting Information	<ul style="list-style-type: none"> <li>• Place final SSHAC Questionnaire for Dr. Eberli in electronic reading room</li> </ul> <p>*awaiting final review &amp; approval by Dr. Eberli</p>	06/17/15*	Met
Supporting Information	• Place PHSA sensitivity calculation for Santaren Anticline in electronic reading room	06/12/15	Met
Supporting Information	<ul style="list-style-type: none"> <li>• Place draft response in electronic reading room (response will not be available until after 5 pm DST on 7/6)</li> </ul> <p>*Posted after 5 pm on 7/6/15</p>	07/06/15	Late (1 day*)
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>	06/09/15	Early (1 day)
Supporting	• Place updated Phase 2 Earthquake Catalog (Calculation #74) in electronic reading room	04/23/15	Early (1 week)
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>	05/22/15	Early (3 days)
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>	05/22/15	Early (3 days)
02.05.01-38 Issued 6/16/15	<ul style="list-style-type: none"> <li>• Address an additional tectonic feature</li> <li>• No additional analysis is anticipated</li> </ul>	07/16/15	Early (1 day)
02.05.01-39 Issued 6/16/15	• Revised figures and provide table of coordinates of karst features in site vicinity	07/16/15	Early (1 day)

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2.5.4 Response Schedules (eRAI 7811)			
RAI	Response Approach	Target Response Date	Actual Response Date
02.05.04-26	<ul style="list-style-type: none"> <li>Grout Layout (previously 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> <li>Discuss revised ITAAC at Public meeting to be held on 7/2/15</li> <li>Ensure/revise as required to confirm response meets methodology as provided to NRC auditors and addresses NRC Comment 01</li> </ul> <p><b>**Final response/calculation is tracking to 7/17/2015</b></p>	<p><b>06/17/15</b>  <b>Revised Date</b>  <b>07/15/15**</b></p>	<b>Met</b>
Supporting Calculation	<ul style="list-style-type: none"> <li>Provide calculation in electronic reading room</li> <li>* 1 day late to the original 7/15/2015 schedule date</li> </ul> <p><b>**Final response/calculation is tracking to 7/17/2015</b></p>	<b>07/15/15**</b>	<b>Late (1 day*)</b>
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>	<b>04/30/15</b>	<b>Early (1 day)</b>
02.05.04-27 Revision	<ul style="list-style-type: none"> <li>Revise ITAAC to address extended drilling zone and to narrow shear wave velocity acceptance criteria</li> <li>Revise ITAAC based on feedback from NRC at Public meeting held on 6/9/15</li> <li>Discuss removing ITAAC based on sensitivity at Public meeting to be held on 7/2/15</li> </ul> <p><b>**Final response/calculation is tracking to 7/17/2015</b></p>	<b>07/15/15**</b>	<b>Met</b>
Supporting Calculation	<ul style="list-style-type: none"> <li>Provide sensitivity calculation in electronic reading room</li> </ul> <p>*Posted after 5 pm on 7/6/15</p>	<b>07/06/15</b>	<b>Late (1 day*)</b>
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</b>	<b>Late (3 days-original target prior to schedule ltr)</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</b>	<b>Met</b>
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>	<b>04/17/15</b>	<b>Met</b>
Supporting	<ul style="list-style-type: none"> <li>Place sensitivity analysis calculation in electronic reading room</li> </ul>	<b>04/17/15</b>	<b>Met</b>

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Calculation			
02.05.04-31	<ul style="list-style-type: none"> <li>Provide ITAAC for fill concrete</li> </ul>	04/10/15	Met
02.05.04-31 Revision	<ul style="list-style-type: none"> <li>Revise ITAAC based on feedback from NRC at Public meeting held on 6/9/15</li> <li>Discuss revised combined ITAAC at Public meeting to be held on 7/2/15</li> </ul>	07/15/15	Early (2 days)
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	Early (1 week)
02.05.04-32 Revision	<ul style="list-style-type: none"> <li>Revise ITAAC based on feedback from NRC at Public meeting held on 6/9/15</li> <li>Discuss FSAR revision and deletion of ITAAC at Public meeting to be held on 7/2/15</li> </ul>	07/15/15	Early (2 days)
02.05.04-33	<ul style="list-style-type: none"> <li>RAI response to provide ITAAC for fill</li> </ul>	04/29/15	Early (2 days)
02.05.04-33 Revision	<ul style="list-style-type: none"> <li>Revise ITAAC based on feedback from NRC at Public meeting held on 6/9/15</li> <li>Discuss revised combined ITAAC at Public meeting to be held on 7/2/15</li> </ul>	07/15/15	Early (2 days)
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	Met
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	Met
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	Early (1 day)
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>	04/30/15	Met
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	Late (1 day-original target prior to schedule ltr)

Chapter 3 Site Specific Seismic Issues			
	Response Approach	Target Response Date	Actual Response Date
FSAR Subsection 3.7	<b>Chapter 3 Site Specific Seismic 2 over 1 issue (voluntary response)</b> <ul style="list-style-type: none"> <li>Provide voluntary response with FSAR mark-ups for FSAR Subsection 3.7 (i.e. 3.7.2.8 "Interaction of Seismic Category II and Nonseismic Structures with Seismic Category I Structures, Systems, or Components")</li> <li>Ensure/confirm response meets methodology as provided to NRC auditors during week of 6/22</li> </ul>	07/30/15	Met
Supporting Calculation	<ul style="list-style-type: none"> <li>Place draft response in electronic reading room</li> </ul>	07/21/15 Revised Date 07/23/15	Met



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03.07.01-15	<ul style="list-style-type: none"> <li>• Provide revised RAI response:               <ol style="list-style-type: none"> <li>1. Address NRC comments 04, 05, &amp; 06 (also addresses Audit Issue #3)</li> </ol> </li> </ul>	07/17/15	Met
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Chapter 19 Site Specific Seismic Margin Analysis (voluntary response)			
	Response Approach	Target Response Date	Actual Response Date
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>	05/21/15	Early (2 days)
Supporting Calculation	<ul style="list-style-type: none"> <li>• Place Site Specific Seismic Margin Analysis in electronic reading room</li> </ul>	04/17/15	Met