

## PMTurkeyCOLPEm Resource

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**From:** Franzone, Steve [Steve.Franzone@fpl.com]  
**Sent:** Wednesday, July 01, 2015 10:01 AM  
**To:** Comar, Manny  
**Cc:** Burski, Raymond; Maher, William  
**Subject:** [External\_Sender] RE: Draft ITAACs for 7/2/15 11 am FPL/NRC Public Call  
**Attachments:** RAI 02 05 04-26 ITAAC Table (Draft B).pdf; RAI 02 05 04-31 and RAI 02 05 04-33 Combined Draft ITAAC.PDF

FYI, Dr. Eberli's questionnaire is available in the electronic reading room and also at the WEC offices in Rockville.

Thanks

Steve Franzone

NNP Licensing Manager - COLA

"Keep away from people who try to belittle your ambitions. Small people always do that, but the really great make you feel that you, too, can become great." ~ Samuel Langhorne Clemens

561.694.3209 (office)

754.204.5996 (cell)

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**From:** Franzone, Steve  
**Sent:** Monday, June 29, 2015 2:51 PM  
**To:** Mr. Manny Comar (manny.comar@nrc.gov)  
**Cc:** Burski, Raymond; Maher, William  
**Subject:** Draft ITAACs for 7/2/15 11 am FPL/NRC Public Call

Manny

Here is a list of items (in no particular order) to discuss on Thursday, 7/2 at 11 am call:

1. Review of draft ITAACs (Attached),
2. Review of Dr. Eberli's questionnaire, and
3. Discussion of shear wave sensitivity to support removing the ITAAC for RAI 2.5.4-27

Any questions, please call.

Thanks

Steve Franzone

NNP Licensing Manager - COLA

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**Mail Envelope Properties** (DEC707C5CF603B4AA6194131A65C7C52400FD7CB)

**Subject:** [External\_Sender] RE: Draft ITAACs for 7/2/15 11 am FPL/NRC Public Call  
**Sent Date:** 7/1/2015 10:00:54 AM  
**Received Date:** 7/1/2015 10:01:01 AM  
**From:** Franzone, Steve

**Created By:** Steve.Franzone@fpl.com

**Recipients:**

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

**Post Office:** GOXSA1809.fpl.fpl.com

<b>Files</b>	<b>Size</b>	<b>Date &amp; Time</b>	
MESSAGE	2482	7/1/2015 10:01:01 AM	
RAI 02 05 04-26 ITAAC Table (Draft B).pdf		18011	
RAI 02 05 04-31 and RAI 02 05 04-33 Combined Draft ITAAC.PDF			463585

**Options**

**Priority:** Standard  
**Return Notification:** No  
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**Expiration Date:**  
**Recipients Received:**

**Table 1**  
**ITAAC for Category I Structure Foundation Grouting, El. -35 to -110 Ft<sup>1</sup>**

Design Commitment	Inspections, Tests, Analyses	Acceptance Criteria
<p>No voids exist in the grouted zone (between El. -35 ± 2 feet and El. -60 ± 2 feet).</p> <p>The maximum equivalent spherical diameter of potential voids in the extended zone (between El. -60 ± 2 feet and El. -110 ± 2 feet) is constrained to 20 ± 2 feet by the grout program.</p>	<p>1) Grout closure criteria for the grouted zone (between El. -35 ± 2 feet and El. -60 ± 2 feet) are defined in the grout test program.</p> <p>Drilling and pressure grouting are performed per grout program specifications established as part of grout test program within:</p> <ul style="list-style-type: none"> <li>(i) Primary and secondary grout boreholes between El. -35 ± 2 feet and El. -60 ± 2 feet (if necessary tertiary and quaternary per closure criteria), and</li> <li>(ii) primary grout boreholes down to El. -110 ± 2 feet inside the region defined by the diaphragm walls.</li> </ul> <p>2) An as-built survey will be performed to confirm the spacing of grout boreholes.</p>	<p>1) Primary and secondary grout boreholes are drilled and pressure grouted between El. -35 ± 2 feet and El. -60 ± 2 feet. Grout closure criteria for the grouted zone are met as defined in the grout test program.</p> <p>2) The as-built survey of the grout layout</p> <ul style="list-style-type: none"> <li>a) confirms that spacing of primary grout boreholes is less than or equal to 20 ± 2 feet on center.</li> <li>b) confirms that secondary grout boreholes are offset from primary grout boreholes such that a secondary grout borehole is at the center of the square formed by four adjacent primary grout boreholes.</li> <li>c) confirms the spacing of tertiary and quaternary grout boreholes if these are necessary per closure criteria.</li> </ul>

Note: 1 All elevations are presented in the North American Vertical Datum of 1988 (NAVD88).

**Turkey Point Units 6 & 7  
COL Application  
FSAR Subsection 2.5.4 Stability of Subsurface Materials and Foundations**

The following ITAAC will be added to the COLA, Part 10, Appendix B:

**Table 3.8-5  
Fill Concrete**

<b>Design Commitment</b>	<b>Inspections, Tests, Analyses</b>	<b>Acceptance Criteria</b>
<p><b>First lift of fill concrete placed under the nuclear island basemat, containment building, shield building, and auxiliary building, meets durability requirements of ACI 201.2R-08 Table 6.3 for Class 2 sulfate exposure.</b></p>	<p><b>Batch tickets will be prepared according to ACI 311.5 and inspected to ensure that the first lift of fill concrete (minimum thickness of 2.5 feet) meets durability requirements of ACI 201.2R-08 Table 6.3 for Class 2 sulfate exposure.</b></p>	<p><b>The first lift of fill concrete (minimum thickness of 2.5 feet) meets durability requirements of ACI 201.2R-08 Table 6.3 for Class 2 sulfate exposure.</b></p>
<p><b>Fill concrete placed under the nuclear island basemat, containment building, shield building, and auxiliary building, is designed, constructed, and tested as specified in ACI 207.1R-05.</b></p>	<p><b>(a) Testing will be performed in accordance with ACI 311.5 to determine the mean compressive strength of the fill concrete.</b></p> <p><b>(b) Inspection will be performed to ensure that methods used to control thermal cracking are in accordance with ACI 207.1R-05.</b></p>	<p><b>(a) The mean 28-day compressive strength of the fill concrete is equal to, or greater than 1500 psi.</b></p> <p><b>(b) Methods used to control thermal cracking are in accordance with ACI 207.1R-05.</b></p>