

PMTurkeyCOLPEm Resource

From: Comar, Manny
Sent: Tuesday, June 09, 2015 8:56 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; orthen, Richard; Raymond Burski; Steve Franzone; STEVEN.HAMRICK; TurkeyCOL Resource; William Maher
Cc: Comar, Manny
Subject: FW: FPL/NRC Public meeting - RAI 2.5.4-26, Draft ITAAC for Stability Under Presence of Voids of Constrained Size
Attachments: RAI 02 05 04-26 ITAAC Table (Draft) v6_0a.docx

[The draft ITAAC for discussion today](#)

From: Franzone, Steve [mailto:Steve.Franzone@fpl.com]
Sent: Monday, June 08, 2015 11:10 AM
To: Comar, Manny
Cc: Burski, Raymond; Maher, William
Subject: FPL/NRC Public meeting - RAI 2.5.4-26, Draft ITAAC for Stability Under Presence of Voids of Constrained Size

Manny

I have attached the draft ITAAC for use during tomorrow's call. The attached is our proposed draft "ITAAC for Stability Under Presence of Voids of Constrained Size".

The language in this ITAAC can be simplified by pointing to relevant sections within the updated FSAR (as revised by the final response to RAI 2.5.4-26).

Thanks

Steve Franzone

NNP Licensing Manager - COLA

"Habits are cobwebs at first; cables at last." ~ Chinese Proverb

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Sent Date: 6/9/2015 8:56:15 AM
Received Date: 6/9/2015 8:56:16 AM
From: Comar, Manny

Created By: Manny.Comar@nrc.gov

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Table 1
ITAAC for Stability Under Presence of Voids of Constrained Size¹

Design Commitment	Inspections, Tests, and Analyses	Acceptance Criteria
<p>DCD requirements on stability(settlement and bearing capacity)are met if voids with the following diameters exist:</p> <ul style="list-style-type: none"> • Diameter equal to or smaller than XX feet within the zone between El.–35 feetand El.–60feet • Diameter equal to or smaller than YY feet within the zone between El.–60feet and El.–110feet 	<p><u>Tests and Inspections:</u></p> <p>During drilling for grouting of the interval from El.–35 feetto El.–60feet, the following field activities are performed:</p> <ol style="list-style-type: none"> 1. Primary and secondary boreholes are drilled between El.–35 feetand El.–60feet, and grouting is performed per grout program specifications. 2. Primary boreholes are drilled further to El.–110feet, with no grouting involved other than for the purpose of borehole abandonment. <p>Logging of the resistance provided by the rock (tool drops)is performed for every borehole.</p> <p>If voids in the following category are found during the extended-depth drilling under the footprint of Category I structures, they are filled with grout:</p> <ul style="list-style-type: none"> • Voids with a diameter larger than YY feet within the zone between El.–60feet and El.–110feet. <p><u>Analyses:</u></p> <p>Stability analyses (settlement and bearing capacity) areperformed considering voids of the maximumdiameter not detectable by drilling operations, i.e. a diameter of XX feet within the zone between El.–35feet and El.–60feet and YY feet within the zone between El.–60 feetand El.–110feet.</p>	<p>Based on drilling records from the grout program, evidence is provided that there are no voids under the footprint of Category I structures in the following two categories:</p> <ul style="list-style-type: none"> • Voids with a diameter larger than XX feet within the zone between El.–35feet and El.–60feet • Voids with a diameter larger than YY feet within the zone between El.–60 feetand El.–110feet <p>For voids with a diameter of equal to or smaller than XX feet within the zone between El.–35feet and El.–60feetand equal to or smaller than YY feet within the zone between El.–60feet and El.–110feet, analysis results show that DCD requirements on stability (settlement and bearing capacity) are met.</p>

Note:

¹Details presented in this table will be part of updated FSAR sections. The language in this ITAAC will be simplified by pointing to relevant sections within the updated FSAR,