

## PMSTPCOL PEmails

---

**From:** Price, John E [jprice@STPEGS.COM]  
**Sent:** Thursday, July 19, 2012 4:19 PM  
**To:** Tai, Tom  
**Cc:** STPCOL; Chakravorty, Manas  
**Subject:** RE: STP - July 23, 2012 Audit

Tom/Manas,

In response to your question, S&L has stated that the sensitivity analyses for Poisson's ratio effect using the refined model (i.e. both models with 0.48 and 0.495 Poisson's Ratios) were performed using the Subtraction Method. Please note that the Control Building SSI analysis results for addressing the shear wave velocity departure that are reported in COLA Section 3A are based on Direct Method of analysis.

If you have any questions or comments, please let me know.

Regards,

*John E. Price*

*Licensing Engineer - STP Units 3 & 4  
972.754.8221 (cell)*

---

**From:** Tai, Tom [<mailto:Tom.Tai@nrc.gov>]  
**Sent:** Tuesday, July 17, 2012 3:29 PM  
**To:** Price, John E  
**Cc:** STPCOL; Chakravorty, Manas  
**Subject:** STP - July 23, 2012 Audit

John,

Below is Manas' question that I plan to add to the audit next week:

In the response to the FE mesh refinement issue, in the response to RAI 03.07.01-25, the applicant provided the results of a sensitivity analysis (which was also used to address the Poisson's ratio effect) that involved a new CB SSI model that further refined the soil mesh so the model is capable of passing frequencies up to 33 Hz. The only thing that I am not sure is whether this sensitivity analysis was performed using the Direct or Subtraction Method for both the original and revised model? I know that the DCD had used the Direct Method so you would think that the refined CB model was also analyzed using the Direct Method but it is not clear in the applicant's response. Need further clarifications on this (I know that at that time the Subtraction Method issues had not come up).

Regards

Tom Tai  
DNRL/NRO  
(301) 415-8484  
[Tom.Tai@NRC.GOV](mailto:Tom.Tai@NRC.GOV)

**Hearing Identifier:** SouthTexas34Public\_EX  
**Email Number:** 3439

**Mail Envelope Properties** (DCE977C7D9D4C74A99B940B5FB545854A2C1)

**Subject:** RE: STP - July 23, 2012 Audit  
**Sent Date:** 7/19/2012 4:19:29 PM  
**Received Date:** 7/19/2012 4:19:32 PM  
**From:** Price, John E

**Created By:** jeprice@STPEGS.COM

**Recipients:**

"STPCOL" <STP.COL@nrc.gov>

Tracking Status: None

"Chakravorty, Manas" <Manas.Chakravorty@nrc.gov>

Tracking Status: None

"Tai, Tom" <Tom.Tai@nrc.gov>

Tracking Status: None

**Post Office:** CEXMBX04.CORP.STPEGS.NET

<b>Files</b>	<b>Size</b>	<b>Date &amp; Time</b>
MESSAGE	1772	7/19/2012 4:19:32 PM

**Options**

**Priority:** Standard

**Return Notification:** No

**Reply Requested:** No

**Sensitivity:** Normal

**Expiration Date:**

**Recipients Received:**