

## PMSTPCOL PEmails

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**From:** Tai, Tom  
**Sent:** Wednesday, February 23, 2011 8:07 AM  
**To:** Price, John E  
**Cc:** STPCOL  
**Subject:** Today's 2 pm call  
**Attachments:** Questions regarding STP response Letter 110008\_(2-16-2011).doc

John,

For this afternoon's phone call, I'd like to discuss:

1. the draft RAIs I sent yesterday;
2. the attached issues from RAI 03.08.04-30;
3. the position paper Scot sent via e-mail;
4. anything else NINA wants.

Regards

Tom

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**Email Number:** 2655

**Mail Envelope Properties** (0A64B42AAA8FD4418CE1EB5240A6FED125D25497E5)

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**From:** Tai, Tom

**Created By:** Tom.Tai@nrc.gov

**Recipients:**  
"STPCOL" <STP.COL@nrc.gov>  
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"Price, John E" <jeprice@STPEGS.COM>  
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## Questions regarding STP response Letter 110008

### RAI 3.8.4-30 Structural analysis and design information for all site-specific seismic category I structures (Partial Response).

#### 1. Analysis

- a) If structure-to-structure interaction is an issue, SSSI models are used to simulate the dynamic behavior. The results are typically used to evaluate the dynamic earth pressures. The question is: are the accelerations from this SASSI model also used as input for the SAP models (looks like it was done for the DGFOT)? How are the accelerations influenced by uplift?
- b) It is not always clear if H in load combinations with E' includes the dynamic effects from seismic (normally called H'). Should H be changed to H'?
- c) Torsional effects and uplift were considered for DGFOT, but it is not quite clear how it was done
- d) Restraints on the above ground portion of the DGFOT are mentioned, but it is not clear what they are
- e) Only the short DGFOT tunnel is analyzed as being the critical one. This selection requires further justification

#### 2. Design

- a) 50 year MRI winds are used for DGFOT above ground exposure with an importance factor of  $I=1.11$ , instead of 100 year MRI and 1.15.

#### 3. Editorial

- a) In section 3.8.6.4 the DGFOT is missing
- b) Change figure numbers 3.7-40 through -42 to -41 through 43

#### 4. Codes and Standards

- a) While in other chapters, i.e. 3.3.1 etc., ASCE7-05 is required, other versions are used i.e. 7-88 or 7-98. This needs to be clarified.
- b) Older version of SRP (Nureg-0800), i.e. 1981, are used instead of the newest revision Rev. 3, March 2007.