

**Turilin, Andrey**

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**From:** Raymond, William *RF*  
**Sent:** Tuesday, March 08, 2011 8:23 AM  
**To:** Modes, Michael; Chaudhary, Suresh  
**Cc:** Burritt, Arthur; Johnson, Jonathan  
**Subject:** FW: Management Briefing: Status of Seabrook Concrete Degradation

-----Original Message-----

**From:** Raymond, William  
**Sent:** Monday, March 07, 2011 11:00 PM  
**To:** Sheikh, Abdul  
**Cc:** Modes, Michael; Dan Naus; Auluck, Rajender  
**Subject:** RE: Management Briefing: Status of Seabrook Concrete Degradation

I agree with Abdul. NRC should ask NextEra to do more analyses.  
Bill

**From:** Sheikh, Abdul  
**Sent:** Monday, March 07, 2011 5:01 PM  
**To:** Raymond, William  
**Cc:** Modes, Michael; Dan Naus; Auluck, Rajender  
**Subject:** RE: Management Briefing: Status of Seabrook Concrete Degradation

I am concerned about the following statement in the email:

4. (Abdul) As covered in pending RAI – make sure planned core testing will include tensile strength (as well as compressive strength, modulus and petrographic analysis).

No. NextEra has no plans to obtain tensile strength values from the cores, since tensile strength is not in the design calculations, and there is no baseline test data to compare with for changes. NOTE – NRC MAY NEED TO REQUEST THIS IN AN RAI.

My Comment:

Concrete shear strength is a function of its tensile strength. With the concrete being cracked, the tensile and shear strength of concrete will be appreciably different from the code specified values based on compressive strength. In the design of outer perimeter walls, shear strength of concrete is an important consideration. In addition, the capacity of anchor bolts and embeds in concrete walls are based on shear (tensile) strength of concrete. Embeds located in cracked walls may not be capable of resisting design loads.

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**From:** Raymond, William  
**Sent:** Thursday, March 03, 2011 10:52 AM  
**To:** Modes, Michael  
**Cc:** Hiland, Patrick; Clifford, James; Weerakkody, Sunil; Burritt, Arthur; Manoly, Kamal; Cline, Leonard; Conte, Richard; Auluck, Rajender; Galloway, Melanie; Khanna, Meena; Chaudhary, Suresh; DeFrancisco, Anne; Sheikh, Abdul; Roberts, Darrell; Wilson, Peter  
**Subject:** RE: Management Briefing: Status of Seabrook Concrete Degradation

Mike,

fortunately, I cannot participate on that date. Jon will cover for the residents.

Information in this record was deleted

in accordance with the Freedom of Information  
Act, exemptions Outside of Scope

FOIA- 2012-0119

C/4

Outside of Scope

outside of scope

6: Mike / Suresh – draft TIA on what DE input is needed for NRC's review of NE's operability analysis for the control building – make sure staff questions on adequacy of seismic analysis are addressed (Bill – provide thought/inputs to Mike & Suresh).

Outside of Scope

*outside of scope*

Outside of Scope

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Enforcement – Implications

(Burritt/Raymond/DeFrancisco)

• TIA – Technical Issues

(Modes)

Outside of Scope

*out of Scope*