

## PMSTPCOL PEmails

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**From:** Tai, Tom  
**Sent:** Friday, September 14, 2012 8:56 AM  
**To:** Tomkins, James  
**Cc:** STPCOL  
**Subject:** STP - Long Term Cooling

Jim,

I need clarification on the following:

1. In the strainer sizing methodology, CCI's small-scaled test and EPRI's full-scaled test were discussed. Is it correct to say that the EPRI test was a functional test for strainer head loss (of similar design), and the CCI test was a scaled model test for perforated metal screen design qualification (was it a destructive test to determine at what pressure load the screen starts to buckle)?
2. For chemical effects and chemical debris generation, it is important to consider all sources of acids and bases. Specifically, I'm referring to NO<sub>x</sub> and HCl due to radiolysis that may acidify the condensed water on the coated containment wall. This could leach Zn from the coating. Since the coating was discussed in your report and our SER, were all these sources considered?
3. For downstream fuel effects, STP assumed all the fibers and chemical debris pass through the suction strainer, and used AIOOH to represent the corrosion products from latent Al and Zn. Is it correct to say that the treatment of ZnO as AIOOH for the purpose of testing has been supported by the PWROG testing in WCAP 16530?

Thanks

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**Hearing Identifier:** SouthTexas34Public\_EX  
**Email Number:** 3447

**Mail Envelope Properties** (0A64B42AAA8FD4418CE1EB5240A6FED1B0C43A49B1)

**Subject:** STP - Long Term Cooling  
**Sent Date:** 9/14/2012 8:56:03 AM  
**Received Date:** 9/14/2012 8:56:04 AM  
**From:** Tai, Tom

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

**Recipients:**  
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Tracking Status: None  
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Tracking Status: None

**Post Office:** HQCLSTR02.nrc.gov

<b>Files</b>	<b>Size</b>	<b>Date &amp; Time</b>
MESSAGE	1266	9/14/2012 8:56:04 AM

**Options**  
**Priority:** Standard  
**Return Notification:** No  
**Reply Requested:** No  
**Sensitivity:** Normal  
**Expiration Date:**  
**Recipients Received:**