

**From:** Poole, Justin  
**Sent:** Monday, January 25, 2010 3:45 PM  
**To:** 'Hale, Steve'; 'COSTEDIO, JAMES'  
**Subject:** Items for Discussion on AFW During the Upcoming Public Meeting

Steve,

While these are not RAI questions at this time, the Balance of Plant Branch would like to talk to the following items during the public meeting. It is not necessary to go through the effort of changing your presentation around but rather be ready to discuss these items and if possible bring any material (or people) that may be beneficial. Thanks.

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Follow up questions on the AFW pressure switch. Maybe they can bring in some material during the public meeting to discuss:

- 1) Licensee establishes 25.5 seconds as the max allowable time delay for the pump to trip. Provide the details on how 25.5 seconds was determined, Include such assumptions as pump flow, volume of water in piping, any confirmation from vendor that can support their premise that no damage will be done to the pump if tripped prior to some point. (calculation).
- 2) The calculation is based upon keeping the suction to the pump covered with water. However, if the pump draws down water in the pumping from where the service water ties in, then a slug of air will be introduced into the pump ahead of the service water. Maybe the calculation needs to be based on keeping the tie in covered with water.
- 3) Is the signal to turn off the timers the same signal to turn on?  
Does it take the 3 seconds for pressure to be restored in the piping after Tset Switchover is actuated (18.4)? Concern is there is only a 1/2 second margin until the pump trip signal would actuate (18.9 sec). Is there any significant delay from switch actuation to cancel timer?
- 4) At T=0, is the calculation based upon the lowest pressure to activate the switch.

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**Subject:** Items for Discussion on AFW During the Upcoming Public Meeting  
**Sent Date:** 1/25/2010 3:42:57 PM  
**Received Date:** 1/25/2010 3:44:00 PM  
**From:** Poole, Justin

Created By: Justin.Poole@nrc.gov

Recipients:

Steve.Hale@fpl.com ('Hale, Steve')

Tracking Status: None

JAMES.COSTEDIO@nexteraenergy.com ('COSTEDIO, JAMES')

Tracking Status: None

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