

## PMNorthAnna3COLPEmails Resource

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**From:** Alicia Williamson  
**Sent:** Tuesday, May 20, 2008 6:16 PM  
**To:** Christopher Cook  
**Subject:** RE: Question about Temperature

Im not sure what action to take going forward. I didnt realize this email was from the gentleman at LACA. I was only cc'd on the email from Mark Thaggard. You can get the one pager to me and I will get it to him.  
Alicia

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**From:** Christopher Cook  
**Sent:** Tuesday, May 20, 2008 4:01 PM  
**To:** Alicia Williamson  
**Subject:** RE: Question about Temperature

Alicia,

How would you like me to deliver a response to Mr. Remmers? I'm close to having a one page write-up + spreadsheet that I'd like to send him. Two options are:

- 1) Send the package on to you, and once you're happy with it you can forward it on
- 2) I sent it to Remmers (after you (and OGC?) review...Masnik and Thaggard will already have reviewed)

Please let me know...thanks,  
Chris

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

**From:** Mark Thaggard  
**Sent:** Thursday, May 15, 2008 1:27 PM  
**To:** Remmers, Kenneth D CIV NSWCCD W Bethesda, 5800  
**Cc:** Christopher Cook; Michael Masnik; Alicia Williamson  
**Subject:** RE: Question about Temperature

Mr. Remmers,

Dr. Cook is the best person to answer your questions; however, he will not be back into the office until Monday (May 19). I will pass along your question for him to take look at when he returns to the office. If we have the information that you are looking for, we will be glad to either pass it along to you or tell you how you can get it.

Mark Thaggard, Chief  
Hydrologic Engineering Branch  
Office of New Reactors  
US Nuclear Regulatory Commission  
301-415-6971  
[Mark.Thaggard@nrc.gov](mailto:Mark.Thaggard@nrc.gov)

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

**From:** Remmers, Kenneth D CIV NSWCCD W Bethesda, 5800 [mailto:kenneth.remmers@navy.mil]  
**Sent:** Thursday, May 15, 2008 12:08 PM  
**To:** Mark Thaggard  
**Subject:** FW: Question about Temperature

Mark

Chris is off. Can you help me on this request

Ken

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

From: Remmers, Kenneth D CIV NSWCCD W Bethesda, 5800

Sent: Thursday, May 15, 2008 11:53

To: 'christopher.cook@nrc.gov'

Subject: Question about Temperature

Chris

Nice seeing you and the NRC team on Saturday. Two pictures enclosed of the group on the boat ride on the hot side. Thanks for talking to us.

I am working on getting a knot meter to measure the currents on the hot side. I would expect that we would measure the flow pattern i.e.. The two canals, dikes 1,2,3 and exit to the power plant.

Question on the temperature increase due to the third reactor. What volume of water do you assume the 100F blowdown is influencing? Where would the temperature be 0.1F higher? Or is there a gradient from plant output to intake? My LACA measurements indicate the temperature of the reservoir at dike three even at 3 meters is cooler than that measured at the dam up to 3 meters. Can you provide the calculations that back up this 0.1F increase?

Can we be assured that this will be considered as new significant information or do we need to submit additional requests before May 16th for this to be considered?

Ken Remmers Water Quality Chairman LACA

13130 Westbrook Dr

Fairfax, VA 22030

703 969-2430

<<NRC Meeting 1.jpg>> <<NRC meeting 2.jpg>>

**Hearing Identifier:** NorthAnna3\_Public\_EX  
**Email Number:** 149

**Mail Envelope Properties** (419623E8C7444444BF132DA3AE69EDA20AE8BA8B11)

**Subject:** RE: Question about Temperature  
**Sent Date:** 5/20/2008 6:16:19 PM  
**Received Date:** 5/20/2008 6:17:49 PM  
**From:** Alicia Williamson

**Created By:** Alicia.Williamson@nrc.gov

**Recipients:**  
"Christopher Cook" <Christopher.Cook@nrc.gov>  
Tracking Status: None

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

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MESSAGE	3131	5/20/2008 6:17:49 PM

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