

**From:** <Tony\_Banks@dom.com>  
**To:** <jxc9@nrc.gov>  
**Date:** 10/26/05 11:17AM  
**Subject:** public information regarding cooling tower system

Jack - attached is a pdf copy of the letter to DEQ, and below is the public information provided yesterday - thanks, Tony

(See attached file: 10-25-05\_Murphy Letter from Pam Faggart.pdf)

Public Information provided -

Dominion has conducted additional evaluation of using water from Lake Anna for cooling a potential third nuclear reactor at its North Anna site and is modifying its approach to reduce both thermal impact and water consumption.

The company's approach is being modified to be responsive to concerns that had been raised by state regulatory bodies, some local residents, and participants in the Early Site Permit proceeding before the U.S. Nuclear Regulatory Commission.

Under the revised approach the company would use a cooling tower system to cool a third new nuclear reactor, should it decide to add more electrical generation at the North Anna Power Station site. Use of this closed-cycle cooling technology means that the 3,400-acre waste heat treatment facility (WHTF) would not be used to cool water from a third unit. Also, while some water from Lake Anna will be required for make-up for the cooling tower system, the amount needed will be reduced substantially from previously calculated amounts.

This water mitigation strategy would be implemented only if the company decides to move forward with an additional nuclear unit at North Anna. Currently, the company has no plan to build a new nuclear unit.

Dominion is currently evaluating the potential impact of this revised approach on the North Anna ESP application and will take appropriate action based on the results of that evaluation.

An early site permit would allow Dominion to "bank" the North Anna site for 20 years for additional nuclear generation. The company wants to have the option to consider a new unit to meet future customer needs, should the demand for electricity and market conditions warrant additional generation be built.

Dominion built Lake Anna in the early 1970s to provide cooling to four nuclear reactors. The company built two operating reactors at the North Anna Power Station site and had begun work on two other units before it decided in the early 1980s not to finish the units because of low demand for electricity. Those units were removed from the site after work on them stopped.

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**Subject:** public information regarding cooling tower system  
**Creation Date:** 10/26/05 11:17AM  
**From:** <Tony\_Banks@dom.com>

**Created By:** Tony\_Banks@dom.com

**Recipients**

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Pamela F. Faggert  
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5000 Dominion Boulevard, Glen Allen, VA 23060  
Phone: 804-273-3467



October 25, 2005

Mr. Mike Murphy  
Environmental Enhancement Director  
Virginia Department of Environmental Quality  
629 East Main Street  
Richmond, Virginia 23219

**Re: Federal Consistency Certification Under Coastal Zone Management Act  
Virginia Coastal Resources Management Program  
North Anna Early Site Permit Application**

Dear Mr. Murphy:

As recently discussed with you, Dominion requests an additional extension of 45 days from November 7, 2005 to obtain the Commonwealth's concurrence for the Federal Consistency Certification submitted to your office on March 21, 2005 for the North Anna Early Site Permit Application. This is being requested to allow time to provide DEQ with new and additional information as described below.

Dominion has conducted additional evaluations of cooling water alternatives for a potential third nuclear reactor at its North Anna site in response to concerns that have been raised by DEQ, other agencies, and local residents. Based on these evaluations, the company has decided to modify its approach for cooling a third unit from the base case currently described in the North Anna Early Site Permit application. The revised approach would reduce both temperature impacts and water consumption associated with Lake Anna.

Under the revised approach, Unit 3 would use a closed-cycle cooling system that would not utilize the 3,400-acre waste heat treatment facility for cooling. In addition, the amount of water from Lake Anna required for cooling a third unit would be reduced from that previously considered. We have not developed the detailed engineering needed to implement this approach; however, we plan to provide the details of our proposal to you prior to the end of the requested extension period.

If you have any questions or require additional information, please contact Jud White at 804-273-2948 or Tony Banks at 804-273-2170.

Sincerely,

Pamela F. Faggert

Mr. Mike Murphy  
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cc: Robert Burnley - DEQ  
Ellie Irons - DEQ  
Jack Cushing - NRC  
Robert B. Stroube, M.D., M.P.H. - VDH