

VIRGINIA ELECTRIC AND POWER COMPANY  
RICHMOND, VIRGINIA 23261

February 2, 2001

United States Nuclear Regulatory Commission  
Attention: Document Control Desk  
Washington, D.C. 20555

Serial No. 01-047  
NLOS/ETS  
Docket Nos. 50-338  
50-339  
License Nos. NPF-4  
NPF-7

Gentlemen:

**VIRGINIA ELECTRIC AND POWER COMPANY**  
**NORTH ANNA POWER STATION UNITS 1 AND 2**  
**EMERGENCY CORE COOLING SYSTEM (ECCS)**  
**CHANGE IN COMMITMENT DATE TO PERFORM LOCA REANALYSIS**

In a November 18, 1999 letter (Serial No. 99-558), Virginia Electric and Power Company (Dominion) transmitted information concerning changes to the ECCS Evaluation Models and their application in existing licensing analyses. This information also quantified the effect of the changes upon reported results for North Anna and Surry Power Stations, and demonstrated continued compliance with the acceptance criteria of 10 CFR 50.46. The changes described therein were shown to be significant, based on the criterion established in 10 CFR 50.46(a)(3)(i), and required a 30-day report. 10 CFR 50.46(a)(3)(ii) specifically requests that the 30-day report include a proposed schedule for providing a reanalysis or taking other action as may be needed to show compliance with 10 CFR 50.46 requirements. Therefore, as identified in that letter, reanalyses of the large break LOCA accident for North Anna and Surry were scheduled to be completed by August 31, 2001 and April 30, 2001, respectively, with no further action required to demonstrate compliance with 10 CFR 50.46 requirements. The purpose of this letter is to revise the schedule for reanalysis of the North Anna large break LOCA. No change is being made to the schedule for the Surry reanalysis.

Recently, Dominion signed a letter of intent to purchase fuel assemblies from Framatome ANP for use at North Anna Power Station Units 1 and 2. Our current fuel loading plan calls for these assemblies to be inserted in Units 1 and 2 commencing with Unit 1, Cycle 17 in March, 2003. The engineering efforts to perform a large break LOCA for this fuel have been initiated by Framatome ANP and will culminate in a NRC licensing submittal planned for early 2002. Correspondingly, NRC approval would be expected by early 2003.

We have reviewed the peak cladding temperature (PCT) licensing basis with regard to the current Westinghouse LBLOCA Evaluation Model (EM) at North Anna. Several changes to this EM were reported by our annual report dated June 2, 2000 (letter Serial No. 00-271). These changes were reported to have 0°F PCT impact. Subsequently, Westinghouse has reported three additional minor changes. The overall impact (sum) of these additional changes on PCT is +3°F. This increases the licensing basis PCTs for

A001

North Anna Unit 1 from 2122°F to 2125°F and North Anna Unit 2 from 2142°F to 2145°F. The accumulation of effect for 10CFR50.46(a)(3)(i) is 27°F.

In conformance with the schedule of the ongoing analysis of the large break LOCA by Framatome ANP, we are revising the commitment date for the reanalysis of the large break LOCA for North Anna to April 30, 2003, consistent with the expected NRC approval of the use of a new fuel product at North Anna. The justification for this change is: (1) the current licensing basis PCT is conservative, valid and is less than the regulatory limit of 2200°F, (2) the reported changes to the EM include conservative assessments of PCT impact, and (3) the NRC 30-day report notification criteria would be met prior to exceeding the regulatory limit of 2200°F should subsequent incremental changes to the Westinghouse LBLOCA Evaluation Model affect the PCT value.

In conclusion, the commitment date for reanalysis of the large break LOCA for North Anna is being revised to April 30, 2003. No change is being made to the commitment date for Surry.

If you have further questions or require additional information, please contact us.

Very truly yours,



William R. Matthews

Vice President – Nuclear Operations

Commitment made in this letter:

1. The schedule for reanalysis of the Large Break LOCA for North Anna is being revised to be completed by April 30, 2003.

cc: U. S. Nuclear Regulatory Commission  
Region II  
Sam Nunn Atlanta Federal Center  
61 Forsyth St., SW, Suite 23T85  
Atlanta, Georgia 30303

Mr. M. J. Morgan  
NRC Senior Resident Inspector  
North Anna Power Station

Mr. M. M. Grace  
Authorized Nuclear Inspector  
North Anna Power Station

Mr. J. A. Reasor, Jr.  
Old Dominion Electric Cooperative  
Innsbrook Corporate Center  
4201 Dominion Blvd.  
Suite 300  
Glen Allen, Virginia 23060