

July 23, 2004

LICENSEE: DOMINION NUCLEAR NORTH ANNA, LLC (DOMINION)  
FACILITY: NORTH ANNA EARLY SITE PERMIT  
SUBJECT: SUMMARY OF A TELEPHONE CALL BETWEEN THE U.S. NUCLEAR  
REGULATORY COMMISSION AND DOMINION CONCERNING THE  
RESPONSE TO A QUESTION FROM THE JUNE 7, 2004, TELEPHONE  
CONFERENCE CALL PERTAINING TO THE NORTH ANNA EARLY SITE  
PERMIT APPLICATION (TAC NO. MC1128)

The U.S. Nuclear Regulatory Commission (NRC) staff (hereafter referred to as staff) and representatives of Dominion Nuclear North Anna LLC., (Dominion or the applicant) held a telephone conference call on July 6, 2004, to discuss the applicant's response to one of the follow-up questions documented in a telephone conference call summary dated June 23, 2004. Enclosure 1 is a listing the conference call of participants. Enclosure 2 is response provided by the applicant during the telephone conference call.

***/RA/***

Andrew J. Kugler, Senior Project Manager  
Environmental Section  
License Renewal and Environmental Impacts Program  
Division of Regulatory Improvement Programs  
Office of Nuclear Reactor Regulation

Docket No.: 52-008

Enclosures: As stated

cc w/encls: See next page

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The U.S. Nuclear Regulatory Commission (NRC) staff (hereafter referred to as staff) and representatives of Dominion Nuclear North Anna LLC., (Dominion or the applicant) held a telephone conference call on July 6, 2004, to discuss the applicant's response to one of the follow-up questions documented in a telephone conference call summary dated June 23, 2004. Enclosure 1 is a listing the conference call of participants. Enclosure 2 is response provided by the applicant during the telephone conference call.

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LIST OF PARTICIPANTS  
TELEPHONE CONFERENCE CALL WITH DOMINION NUCLEAR  
NORTH ANNA EARLY SITE PERMIT APPLICATION  
JULY 6, 2004

**Attendees**

Andrew Kugler  
Charlie Hinson  
Tony Banks

**Affiliation**

U.S. Nuclear Regulatory Commission (NRC)  
NRC  
Dominion Nuclear North Anna

**Dominion Response to Question 10 from  
the June 7, 2004, Telephone Conference**

Question 10

**RAI response E4.5-4 (Section 4.5 of ER -Radiation Exposure to Construction Workers) -** States that the west protected area fence TLD readings included dose rate contributions from the independent spent fuel storage installation (ISFSI) at the time of measurement.

(a) For each of the years listed in Table 4.5-1 (1996-2002) provide the approximate percentage of full loading for the ISFSI.

Response: Full load for the existing ISFSI pad is 28 casks. The number of casks placed on the pad each year, total at the end of the year, and percentage of the total are as follows:

Year	Casks Added	Total Casks	Percentage Full
1996	0	0	0
1997	0	0	0
1998	2	2	7
1999	3	5	18
2000	3	8	29
2001	3	11	39
2002	4	15	54
2003	4	19	68

Three more casks have been moved to the pad in 2004, bringing the total to 22, or about 79 percent.

(b) Provide an explanation for the consecutive increases in the TLD dose measurements (shown in Table 4.5-1) from 55 mrem/yr in 2000 to 69 mrem/yr in 2001 to 74 mrem/yr in 2002. Discuss whether this increase could be due to increased loading of the ISFSI over these years.

Dominion attributes these increases to two activities that were occurring during that time period that involved moving irradiated materials past the west gate area TLD. First, Dominion replaced the reactor vessel heads: (1) for North Anna Power Station, Unit 2, during the fourth quarter of 2002, and (2) for Unit 1 during the first and second quarters of 2003. Second, Dominion was moving spent fuel casks with somewhat higher dose rates to the ISFSI during the third and fourth quarters of 2003 and the first quarter of 2004.

(c) Provide the total TLD measurement at the west protected area fence for the year 2003.

The 2003 quarterly dose readings at the TLD on the west protected area fence were 21 mrem, 20 mrem, 18 mrem, and 19 mrem, with a total for the year of 78 mrem.

North Anna Early Site Permit Environmental  
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