

April 17, 2007

**UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION**

DOCKETED
USNRC

Before the Atomic Safety and Licensing Board

April 17, 2007 (4:21pm)

In the Matter of

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OFFICE OF SECRETARY
RULEMAKINGS AND
ADJUDICATIONS STAFF

DOMINION NUCLEAR NORTH ANNA, LLC

)

Docket No. 52-008

(Early Site Permit for North Anna ESP Site)

)

ASLBP No. 04-822-02-ESP

**DOMINION'S CORRECTION TO ITS RESPONSE TO
THE LICENSING BOARD'S SAFETY-RELATED QUESTION 48**

Dominion Nuclear North Anna, LLC, ("Dominion") provides this correction to its response to question 48 in the Atomic Safety and Licensing Board's January 18, 2007 Order. The Board's question 48 asked Dominion to provide any data on the radiological and chemical characteristics of the soil and groundwater at or within 600 feet of the ESP Site. In response, Dominion provided radiological sampling data from one water supply well that is monitored under the North Anna Power Station's ("NAPS") Radiological Environmental Monitoring Program ("REMP") and from two monitoring wells at the North Anna Independent Spent Fuel Storage Installation ("ISFSI"), and provided chemical sampling data from three water supply wells, as well as data from seven observation wells that had been installed as part of the COL subsurface investigation program.

In preparing for the mandatory hearing, Dominion has identified additional radiological and chemical data that should have been provided in response to question 48. The additional radiological data consist of (1) more recent samples from the ISFSI monitoring wells, (2) samples for tritium taken as part of North Anna's Groundwater Protection Initiative, and (3) analyses of samples taken as part of the COL subsurface investigation program. The

additional chemical data consists of samples taken from the Unit 1 Auxiliary Building groundwater monitoring well and Unit 2 mat sump as part of an aging management program for concrete.

With respect to its Groundwater Protection Initiative, NAPS analyzed a number of groundwater samples in 2006 beyond those normally analyzed under the REMP. Some of these samples are from locations within 600 feet of the ESP Site, including (1) a sample of the domestic drinking water supply,¹ (2) samples from the four mat sumps (including samples of the common header for the four drains), (3) a sample for the Unit 1 Auxiliary Building groundwater monitoring well, and (4) samples of groundwater intrusion in the Unit 2 valve pit.

In addition, in September 2006, a composite sample of one of the borings drilled as part of the COL subsurface investigation program was analyzed for gamma activity. All gamma emitters were below the minimum detection concentration (MDC). In November and December 2006, samples from seven new observation wells that had been recently installed as part of the COL subsurface investigation program were analyzed for tritium.² These observation wells are in or close to the ESP Site. Their locations are shown on Figure 1 provided with the original response to question 48.

The additional chemical data is from the groundwater monitoring well in the Unit 1 Auxiliary Building and from the Unit 2 mat sump, which are monitored periodically for pH, chlorides, and sulfates. This monitoring is not performed to identify chemical contaminants in

¹ The domestic water supply draws water off of a common header from Water Supply Wells (WSW) 4, 6, and 7, and two of these wells (WSW-4 and WSW-6) are within 600 feet of the ESP Site. The locations of WSW-4 and WSW-6 are shown on Figure 1 provided with the original response to question 48.

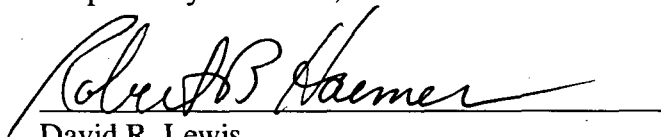
² In its response to question 48, Dominion provided the laboratory results of chemical analyses of samples taken from these seven new observation wells. The measurements for tritium levels were performed at the North Anna Power Station and were therefore not provided as part of the laboratory's reported results.

groundwater, but rather is part of an aging management program for concrete. The most recent data from this sampling program is provided.

These additional data are provided in a new Attachment 6 to Dominion's ASLB Safety Question No. 48 Response. A declaration in support of this corrected response is attached. In addition, Dominion will be prepared to discuss this data during its presentations at the mandatory hearing.

Dominion apologizes for having overlooked this data.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "Robert B. Haemer", is written over a horizontal line.

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Dated: April 17, 2007

North Anna ESP Application
ASLB Safety Question No. 48 Response
April 17, 2007

ATTACHMENT 6

Additional Radiological Sampling Data

Sample	Date	Sample Media	Nuclide	Value	Units
Domestic Water	05/10/06	Water	H-3	<166	pCi/L
Header of Mat Sumps	05/10/06	Water	H-3	1110	pCi/L
ISFSI Well #1	06/22/06	Water	H-3	<1300	pCi/L
ISFSI Well #1	06/22/06	Water	Gamma Emitters	<MDC	pCi/L
ISFSI Well #1	06/22/06	Water	Sr-89/-90	<MDC	pCi/L
ISFSI Well #4	06/22/06	Water	H-3	<1300	pCi/L
ISFSI Well #4	06/22/06	Water	Gamma Emitters	<MDC	pCi/L
ISFSI Well #4	06/22/06	Water	Sr-89/-90	<MDC	pCi/L
U-1 Mat Sump East	06/27/06	Water	H-3	<725	pCi/L
U-1 Mat Sump South	06/27/06	Water	H-3	<725	pCi/L
U-2 Mat Sump East	06/27/06	Water	H-3	1740	pCi/L
U-2 Mat Sump South	06/27/06	Water	H-3	<725	pCi/L
U-1 Mat Sump East	07/13/06	Water	H-3	476	pCi/L
U-1 Mat Sump South	07/13/06	Water	H-3	1060	pCi/L
U-2 Mat Sump East	07/13/06	Water	H-3	1210	pCi/L
U-2 Mat Sump South	07/13/06	Water	H-3	1180	pCi/L
Header of Mat Sumps	07/13/06	Water	H-3	689	pCi/L
Soil Sample from U-3 Boring	09/03/06	Soil	Gamma Emitters	<MDC	Bq/g
Header of Mat Sumps	11/03/06	Water	H-3	<483	pCi/L
U-1 Mat Sump East	11/10/06	Water	H-3	701	pCi/L
U-1 Mat Sump South	11/10/06	Water	H-3	697	pCi/L
U-2 Mat Sump East	11/11/06	Water	H-3	1430	pCi/L
U-2 Mat Sump South	11/11/06	Water	H-3	764	pCi/L
Aux Bldg GW Monitoring Well	11/11/06	Water	H-3	846	pCi/L
U-2 Valve Pit Ground water	11/13/06	Water	H-3	1880	pCi/L
U-3 Well #901	11/22/06	Water	H-3	<461	pCi/L
U-3 Well #945	11/22/06	Water	H-3	<461	pCi/L
U-3 Well #947	11/22/06	Water	H-3	<461	pCi/L
U-3 Well #950	11/22/06	Water	H-3	<461	pCi/L
U-2 Valve Pit Ground water	11/30/06	Water	H-3	2080	pCi/L
U-3 Well #946	11/22/06	Water	H-3	1610	pCi/L
U-3 Well #949	11/22/06	Water	H-3	<477	pCi/L
U-3 Well #951	11/22/06	Water	H-3	500*	pCi/L
U-1 Mat Sump East	03/02/07	Water	H-3	907	pCi/L
U-1 Mat Sump South	03/02/07	Water	H-3	1080	pCi/L
U-2 Mat Sump East	03/02/07	Water	H-3	654	pCi/L

U-2 Mat Sump South	03/02/07	Water	H-3	785	pCi/L
Header of Mat Sumps	02/16/07	Water	H-3	<470	pCi/L

* Sample reanalyzed (initial count measured at 12,000 pCi/L).

Additional Chemical Monitoring Data

Unit 1 Aux Bldg GW Monitoring Well

Date	Cl, ppm	SO ₄ , ppm	pH
04/04/06	<100	<100	7.22
12/18/06	137	<100	7.01
03/04/07	102	<100	8.47

Unit 2 Mat Sump

Date	Cl, ppm	SO ₄ , ppm	pH
04/04/06	<100	<100	7.37
12/18/06	<100	<100	7.12
03/04/07	<100	<100	11.94

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Docket No. 52-008

ASLBP No. 04-822-02-ESP

**DECLARATION OF LOUIS TONY BANKS IN SUPPORT OF
DOMINION'S CORRECTED RESPONSE TO SAFETY-RELATED QUESTION 48**

I, Louis Tony Banks, do hereby state the following:

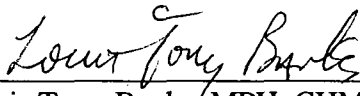
I am a nuclear technical specialist for Dominion Resources Services, Inc. My business address is 5000 Dominion Boulevard, Glen Allen, VA 23060. I am the Environmental Lead responsible for Dominion Nuclear North Anna LLC's application for an Early Site Permit and performed work related to this project on safety and environmental matters. A statement of my professional qualifications has been previously provided.

I am providing this declaration in support of Dominion's Correction to Its Response to the Licensing Board's Safety-Related Question 48. I was responsible for collecting the data provided to the Atomic Safety and Licensing Board in response to question 48 in the Board's Order of January 18, 2007, and provided a declaration supporting the original response. In responding to question 48, I collected the results of radiological monitoring conducted under the North Anna Radiological Environmental Monitoring Program ("REMP") and monitoring conducted for the North Anna ISFSI, and overlooked that there were more recent data from the

ISFSI monitoring wells and additional radiological monitoring data collected for other purposes.

I also collected the results of chemical samples from three water supply wells and from seven observation wells, but overlooked monitoring that is performed in a well in the Unit 1 Auxiliary Building and Unit 2 mat sump as part of an aging management program for concrete.

I hereby attest, under penalty of perjury, that with the addition of the data provided in Dominion's Correction to Its Response to the Licensing Board's Safety-Related Question 48, Dominion's response to this question is true and correct to the best of my knowledge, information and belief.



Louis Tony Banks, MPH, CHMM

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CERTIFICATE OF SERVICE

I hereby certify that copies of "Dominion's Correction to Its Response to the Licensing Board's Safety-Related Question 48," were served on the persons listed below by deposit in the U.S. mail, first class, postage prepaid, and where indicated by an asterisk by electronic mail, this 17th day of April, 2007.

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Alex S. Karlin, Chair

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*Administrative Judge

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Dr. Richard F. Cole

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Atomic Safety and Licensing Board Panel

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Washington, D.C. 20555-0001

Office of Commission Appellate Adjudication

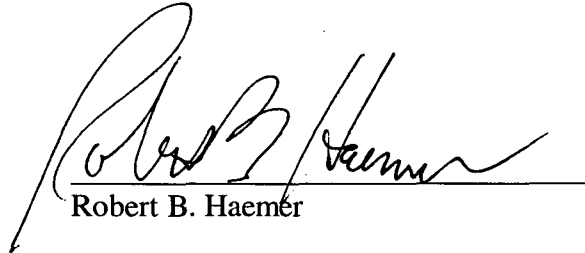
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U.S. Nuclear Regulatory Commission

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