



March 19, 2004

U. S. Nuclear Regulatory Commission
Attention: Document Control Desk
Washington, D.C. 20555

Serial No. 04-126
ESP/JDH
Docket No. 52-008

NORTH ANNA EARLY SITE PERMIT APPLICATION
LAKE ANNA MODELING CALCULATIONS

During the week of December 8, 2003, the NRC staff conducted a visit of the North Anna Early Site Permit (ESP) site and environs as part of its review of the North Anna ESP application, submitted September 25, 2003. During that visit, the NRC staff discussed with Dominion representatives four Lake Anna modeling calculations involving thermal modeling of the North Anna cooling lake system, hydrothermal simulation data processing, evaporation loss modeling, and a water budget analysis and lake level assessment. The NRC staff requested that the calculations be provided for further review. This letter transmits that information.

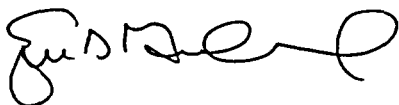
Enclosures 1 through 4 to this letter are the four calculations. Enclosures 1 through 4 contain Bechtel Power Corporation (Bechtel) proprietary information. It is requested that Enclosures 1 through 4 be withheld from public disclosure pursuant to 10 CFR 2.790 (a)(4) and (b).

Enclosure 5 is a letter containing signed affidavits from Bechtel, the owner of the calculations, that provides the basis for classifying the information in Enclosures 1 through 4 as proprietary.

The four calculations have been edited to remove proprietary information and create non-proprietary versions. Enclosures 6 through 9 contain the redacted versions of the calculations.

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

Very truly yours,



Eugene S. Grecheck, Vice President
Nuclear Support Services

D074

Commitments made in this letter:

None

Enclosures

1. Calculation 24830-G-007, Rev 0, Thermal Modeling of the North Anna Cooling Lake System, including a CD. [Proprietary Version]
2. Calculation 24830-G-009, Rev. 0, Meteorological Data (2002-May 2003) Processing for Lake Anna Long-Term Hydrothermal Simulation [Proprietary Version]
3. Calculation 24830-G-017, Rev. 0, Cooling Lake Evaporation Loss Modeling. [Proprietary Version]
4. Calculation 24830-G-018, Rev. 0, Water Budget Analysis and Lake Level Assessment, including a CD. [Proprietary Version]
5. February 20, 2004 Bechtel letter No. 24830-001-T4C-GAM-00005 containing affidavits attesting to the proprietary nature of Enclosures 1 through 4.
6. Calculation 24830-G-007, Rev 0, Thermal Modeling of the North Anna Cooling Lake System, including a CD. [Non-Proprietary Version]
7. Calculation 24830-G-009, Rev. 0, Meteorological Data (2002-May 2003) Processing for Lake Anna Long-Term Hydrothermal Simulation [Non-Proprietary Version]
8. Calculation 24830-G-017, Rev. 0, Cooling Lake Evaporation Loss Modeling. [Non-Proprietary Version]
9. Calculation 24830-G-018, Rev. 0, Water Budget Analysis and Lake Level Assessment, including a CD. [Non-Proprietary Version]

c w/o enclosures:

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

Mr. Andrew Kugler
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Mr. M. T. Widmann
NRC Senior Resident Inspector
North Anna Power Station

Mr. S. D. Routh
Bechtel Power Corporation
Frederick, MD 21703

Serial No. 04-126

Enclosure 5

Bechtel letter dated February 20, 2004, No. 24830-001-T4C-GAM-00005, containing affidavits attesting to the proprietary nature of Enclosures 1 through 4



February 20, 2004

File No. T4C-GAMT
Ltr. No. 24830-001-T4C-GAM-00005

David P. Batalo
Dominion Virginia Power
5000 Dominion Boulevard
Glen Allen, VA 23060

North Anna Early Site Permit Project
Bechtel Job Number 24830

Subject: North Anna ESP – Release of Bechtel Calculations to the NRC

Dear Mr. Batalo:

By letter 24830-001-T4C-GAMT-00014 dated January 21, 2004, copies of the following calculations were turned over to Dominion:

24830-G-007	Revision 0	Thermal Modeling of the North Anna Cooling Lake System
24830-G-009	Revision 0	Meteorological Data (2002-May 2003) Processing for Lake Anna Long-Term Hydrothermal Simulation
24830-G-017	Revision 0	Cooling Lake Evaporation Loss Modeling
24830-G-018	Revision 0	Water Budget Analysis and Lake Level Assessment

These calculations in their entirety are Bechtel Intellectual Property and, as such, are not redactable.

The NRC has requested that Dominion submit copies of these calculations to them for review. In accordance with 10 CFR 2.790, please find enclosed affidavits supporting application to withhold these calculations from public disclosure. We request that the Dominion transmittal letter to the NRC clearly identify these calculations as Bechtel proprietary information and that the calculations should be withheld from public disclosure pursuant to 10 CFR 2.790(a)(4) and (b).

If you have questions related to this transmittal, please contact me at 301-228-6245.

Sincerely,

Stephen D. Routh
Project Manager

Enclosures: Original of Affidavit for Bechtel Calculation 24830-007
Original of Affidavit for Bechtel Calculation 24830-009
Original of Affidavit for Bechtel Calculation 24830-017
Original of Affidavit for Bechtel Calculation 24830-018

David P. Batalo
February 20, 2004
Ltr. No. 24830-001-T4C-GAM-00005
Page 2 of 2

cc: S. Routh
R. Baker

**10 CFR 2.790
AFFIDAVIT OF STEPHEN D. ROUTH
SUPPORTING APPLICATION TO WITHHOLD
FROM PUBLIC DISCLOSURE
BECHTEL CALCULATION 24830-G-007
FOR THE NORTH ANNA EARLY SITE PERMIT PROJECT**

I, Stephen D. Routh, Manager of Regulatory Affairs, of Bechtel Power Corporation (Bechtel), having been duly sworn, do hereby affirm and state:

1. I have been authorized by Bechtel to (a) review the information owned by Bechtel which is referenced herein relating to Bechtel Calculation 24830-G-007, Revision 0, "Thermal Modeling of the North Anna Cooling Lake System," which Bechtel seeks to have withheld from public disclosure pursuant to 10 CFR 2.790(a)(4), and (b) apply for the withholding of such information from public disclosure by the Nuclear Regulatory Commission (NRC) on behalf of Bechtel.
2. Pursuant to the provisions of 10 CFR 2.790(b)(4), the following is furnished for consideration by the Commission in determining whether the information sought to be withheld from public disclosure should be withheld.
 - i. The information sought to be withheld from public disclosure is owned and has been held in confidence by Bechtel.
 - ii. The information is of a type customarily held in confidence by Bechtel and not customarily disclosed to the public. Bechtel has a rational basis for determining the types of information customarily held in confidence by it and, in that connection, utilizes a system to determine when and whether to hold certain types of information in confidence. The application of that system and the substance of that system constitute Bechtel policy and provide the rational basis required.

Under that system, information is held in confidence if it falls in one or more of several types, the release of which might result in the loss of an existing or potential competitive advantage, as follows:

- a) The information reveals the distinguishing aspects of a process (or component, structure, tool, method, etc.) where presentation of its use by any of Bechtel's competitors without license from Bechtel constitutes a competitive economic advantage.
- b) It consists of supporting data, including test data, relative to a process (or component, structure, tool, method, etc.), the application of which data secures a competitive economic advantage (e.g., by optimization or improved marketability).
- c) Its use by a competitor would reduce their expenditure of resources or improve their competitive position in the design, manufacture, shipment, installation, assurance of quality, or licensing a similar product.

- d) It reveals cost or price information, production capacities, budget levels, or commercial strategies of Bechtel, its customers, or suppliers.
- e) It reveals aspects of past, present, or future Bechtel or customer funded development plans and programs of potential commercial value to Bechtel.
- f) It contains patentable ideas, for which patent protection may be desirable.

There are sound policy reasons behind the Bechtel system which include the following:

- a) The use of such information by Bechtel gives Bechtel a competitive advantage over its competitors. It is, therefore, withheld from disclosure to protect the Bechtel competitive position.
 - b) It is information, which is marketable in many ways. The extent to which such information is available to competitors diminishes Bechtel's ability to sell products and services involving the use of the information.
 - c) Use by our competitors would put Bechtel at a competitive disadvantage by reducing their expenditure of resources at Bechtel expense.
 - d) Each component of proprietary information pertinent to a particular competitive advantage is potentially as valuable as the total competitive advantage. If competitors acquire components or proprietary information, any one component may be the key to the entire puzzle, thereby depriving Bechtel of a competitive advantage.
 - e) Unrestricted disclosure would jeopardize the position of prominence of Bechtel in the world market, and thereby give a market advantage to the competition.
 - f) The Bechtel capacity to invest corporate assets in research and development depends upon the success in obtaining and maintaining a competitive advantage.
- iii. The information is being transmitted to the Commission in confidence and, under the provisions of 10 CFR 2.790, it is to be received in confidence by the Commission.
 - iv. The information sought to be protected is not available in public sources or available information has not been previously employed in the same original manner or method to the best of our knowledge and belief.
 - v. The proprietary information specifically sought to be withheld is Bechtel Calculation 24830-G-007, Revision 0, "Thermal Modeling of the North Anna Cooling Lake System," which was prepared in support of the Dominion application for an Early Site Permit at its North Anna site.

This information is part of that which will enable Bechtel to:

- a) Support Dominion for the North Anna ESP project to analyze the thermal impact on Lake Anna due to additional heat load from new nuclear units, including model development, calibration, validation, and prediction

- b) Respond to NRC requests for additional information on the cooling lake model and lake impacts.

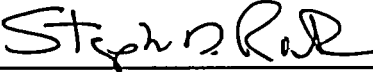
Public disclosure of this proprietary information is likely to cause substantial harm to the competitive position of Bechtel because it would enhance the ability of competitors to perform similar calculations and licensing services for commercial power reactors without commensurate expenses. Also, public disclosure of the information would enable others to use the information to meet NRC requirements for licensing documentation without purchasing the right to use the information.

The development of the information described in part is the result of applying the results of many analyst-hours and significant monetary expenditure.

In order for a competitor of Bechtel to duplicate this information, similar analyses would have to be performed and a significant manpower effort, having the requisite talent and experience, would have to be expended.

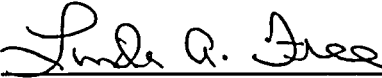
Further affiant sayeth not.

Stephen D. Routh, having been duly sworn, hereby confirms that I am the Manager of Regulatory Affairs, of Bechtel Power Corporation, that I am authorized on behalf of Bechtel to review the information attached hereto and to sign and file with the Nuclear Regulatory Commission this affidavit and the attachments hereto, and that the statements made and matters set forth herein are true and correct to the best of my knowledge, information, and belief.



Stephen D. Routh

On this 20th day of February 2004, the individual signing above personally appeared before me, is known by me to be the person whose name is subscribed to within the instrument, and acknowledged that he executed the same for the purposes therein contained. In witness hereof I hereunto set my hand and official seal.



Linda A. Free, Notary Public

LINDA A. FREE
NOTARY PUBLIC
FREDERICK, CO., MD
MY COMM. EXPIRES DEC 1, 2005



**10 CFR 2.790
AFFIDAVIT OF STEPHEN D. ROUTH
SUPPORTING APPLICATION TO WITHHOLD
FROM PUBLIC DISCLOSURE
BECHTEL CALCULATION 24830-G-009
FOR THE NORTH ANNA EARLY SITE PERMIT PROJECT**

I, Stephen D. Routh, Manager of Regulatory Affairs, of Bechtel Power Corporation (Bechtel), having been duly sworn, do hereby affirm and state:

1. I have been authorized by Bechtel to (a) review the information owned by Bechtel which is referenced herein relating to Bechtel Calculation 24830-G-009, Revision 0, "Meteorological Data (2002-May 2003) Processing for Lake Anna Long-Term Hydrothermal Simulation," which Bechtel seeks to have withheld from public disclosure pursuant to 10 CFR 2.790(a)(4), and (b) apply for the withholding of such information from public disclosure by the Nuclear Regulatory Commission (NRC) on behalf of Bechtel.
2. Pursuant to the provisions of 10 CFR 2.790(b)(4), the following is furnished for consideration by the Commission in determining whether the information sought to be withheld from public disclosure should be withheld.
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Under that system, information is held in confidence if it falls in one or more of several types, the release of which might result in the loss of an existing or potential competitive advantage, as follows:

- a) The information reveals the distinguishing aspects of a process (or component, structure, tool, method, etc.) where presentation of its use by any of Bechtel's competitors without license from Bechtel constitutes a competitive economic advantage.
- b) It consists of supporting data, including test data, relative to a process (or component, structure, tool, method, etc.), the application of which data secures a competitive economic advantage (e.g., by optimization or improved marketability).
- c) Its use by a competitor would reduce their expenditure of resources or improve their competitive position in the design, manufacture, shipment, installation, assurance of quality, or licensing a similar product.

- d) It reveals cost or price information, production capacities, budget levels, or commercial strategies of Bechtel, its customers, or suppliers.
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 - e) Unrestricted disclosure would jeopardize the position of prominence of Bechtel in the world market, and thereby give a market advantage to the competition.
 - f) The Bechtel capacity to invest corporate assets in research and development depends upon the success in obtaining and maintaining a competitive advantage.
- iii. The information is being transmitted to the Commission in confidence and, under the provisions of 10 CFR 2.790, it is to be received in confidence by the Commission.
 - iv. The information sought to be protected is not available in public sources or available information has not been previously employed in the same original manner or method to the best of our knowledge and belief.
 - v. The proprietary information specifically sought to be withheld is Bechtel Calculation 24830-G-009, Revision 0, "Meteorological Data (2002-May 2003) Processing for Lake Anna Long-Term Hydrothermal Simulation," which was prepared in support of the Dominion application for an Early Site Permit at its North Anna site.

This information is part of that which will enable Bechtel to:

- a) Support Dominion for the North Anna ESP project to analyze the thermal impact on Lake Anna due to additional heat load from new nuclear units, including the development of daily meteorological data as input to the long-term hydrothermal simulation.

- b) Respond to NRC requests for additional information on the cooling lake model and lake impacts.

Public disclosure of this proprietary information is likely to cause substantial harm to the competitive position of Bechtel because it would enhance the ability of competitors to perform similar calculations and licensing services for commercial power reactors without commensurate expenses. Also, public disclosure of the information would enable others to use the information to meet NRC requirements for licensing documentation without purchasing the right to use the information.

The development of the information described in part is the result of applying the results of many analyst-hours and significant monetary expenditure.

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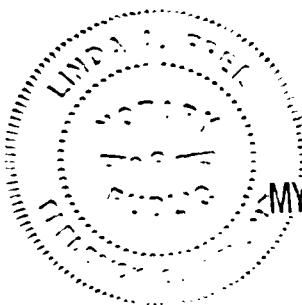
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Stephen D. Routh
Stephen D. Routh

On this 20th day of February 2004, the individual signing above personally appeared before me, is known by me to be the person whose name is subscribed to within the instrument, and acknowledged that he executed the same for the purposes therein contained. In witness hereof I hereunto set my hand and official seal.

Linda A. Free
Linda A. Free, Notary Public



LINDA A. FREE
NOTARY PUBLIC
FREDERICK, CO., MD
MY COMM. EXPIRES DEC 1, 2005

**10 CFR 2.790
AFFIDAVIT OF STEPHEN D. ROUTH
SUPPORTING APPLICATION TO WITHHOLD
FROM PUBLIC DISCLOSURE
BECHTEL CALCULATION 24830-G-017
FOR THE NORTH ANNA EARLY SITE PERMIT PROJECT**

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 - v. The proprietary information specifically sought to be withheld is Bechtel Calculation 24830-G-017, Revision 0, "Cooling Lake Evaporation Loss Modeling 24830-G-009," which was prepared in support of the Dominion application for an Early Site Permit at its North Anna site.

This information is part of that which will enable Bechtel to:

- a) Support Dominion for the North Anna ESP project to analyze the impact on Lake Anna due to additional heat load from new nuclear units, including an assessment of water supply availability by estimating the evaporative water loss.

- b) Respond to NRC requests for additional information on the cooling lake model and lake impacts.

Public disclosure of this proprietary information is likely to cause substantial harm to the competitive position of Bechtel because it would enhance the ability of competitors to perform similar calculations and licensing services for commercial power reactors without commensurate expenses. Also, public disclosure of the information would enable others to use the information to meet NRC requirements for licensing documentation without purchasing the right to use the information.

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Stephen D. Routh, having been duly sworn, hereby confirms that I am the Manager of Regulatory Affairs, of Bechtel Power Corporation, that I am authorized on behalf of Bechtel to review the information attached hereto and to sign and file with the Nuclear Regulatory Commission this affidavit and the attachments hereto, and that the statements made and matters set forth herein are true and correct to the best of my knowledge, information, and belief.

Stephen D. Routh
Stephen D. Routh

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Linda A. Free, Notary Public



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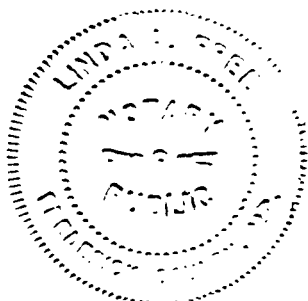
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Stephen D. Routh
Stephen D. Routh

On this 20th day of February 2004, the individual signing above personally appeared before me, is known by me to be the person whose name is subscribed to within the instrument, and acknowledged that he executed the same for the purposes therein contained. In witness hereof I hereunto set my hand and official seal.

Linda A. Free
Linda A. Free, Notary Public



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MY COMM EXPIRES DEC 1, 2005