

VIRGINIA ELECTRIC AND POWER COMPANY
RICHMOND, VIRGINIA 23261

July 2, 2008

U.S. Nuclear Regulatory Commission
Attention: Document Control Desk
One White Flint North
11555 Rockville Pike
Rockville, MD 20852-2738

Serial No. 08-0379
NLOS /ETS
Docket Nos. 50-338/339
License Nos. NPF-4/7

VIRGINIA ELECTRIC AND POWER COMPANY (DOMINION)
NORTH ANNA POWER STATION UNITS 1 AND 2
FULL STRUCTURAL PREEMPTIVE WELD OVERLAYS
REVISED STRESS ANALYSIS FOR PRESSURIZER SPRAY NOZZLES

In letters dated May 16, 2007, October 4, 2007 and December 18, 2007 (Serial Nos. 06-1007B, 07-0656, and 07-0794, respectively), Dominion provided the stress analysis results for the weld overlays repair associated with Alloy 600 materials for North Anna Units 1 and 2. Full structural preemptive weld overlays (PWOLs) were performed on six welds in each unit to mitigate the potential for primary water stress corrosion cracking (PWSCC) susceptibility. Subsequent to the submittal of the stress calculation for the spray nozzles in the May 16, 2007 letter, AREVA discovered an error in the North Anna (NA) spray nozzle ASME analysis. The error resulted in non-conservative thermal transient analysis. An evaluation was performed at the time and concluded that during the interim period, until the revised analyses were completed, there would be no operability concerns and that North Anna was acceptable for operation with this spray nozzle issue for 5 years from the restart after weld overlay implementation.

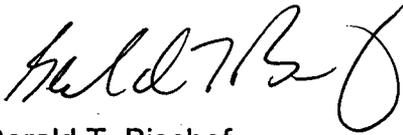
The reanalysis has been completed and it demonstrates that the spray nozzle weld overlays are acceptable and meet all design requirements. The attachments to this letter provide the revised stress analysis for the Unit 1 and 2 Pressurizer spray nozzles.

To conform to the requirements of 10 CFR 2.390 concerning the protection of proprietary information, the proprietary information provided in Attachment 1 is contained within brackets. Attachment 2 has been redacted to provide a non-proprietary version of the requested information. Where the proprietary information has been deleted in the non-proprietary version only the brackets remain (i.e., the information that was contained within the brackets in the proprietary version has been redacted). The basis for redacting certain information as proprietary is provided in the affidavit provided in Attachment 3, pursuant to 10 CFR 2.390(b)(1).

A001
A047
NER

If you have any questions regarding this submittal, please contact Mr. Thomas Shaub at (804) 273-2763.

Very truly yours,

A handwritten signature in black ink, appearing to read "Gerald T. Bischof". The signature is fluid and cursive, with a large, stylized initial "G" and "B".

Gerald T. Bischof
Vice President – Nuclear Engineering

Attachments:

1. Revised Stress Analysis Calculations for Pressurizer Spray Nozzles - Proprietary
2. Revised Stress Analysis Calculations for Pressurizer Spray Nozzles -Non-Proprietary
3. Affidavits

Commitments made in this letter: None

cc: U.S. Nuclear Regulatory Commission (without attachments)
Region II
Sam Nunn Atlanta Federal Center
61 Forsyth Street, SW
Suite 23T85
Atlanta, Georgia 30303

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

NRC Senior Resident Inspector (without attachments)
North Anna Power Station

NRC Project Manager (without attachments)
U. S. Nuclear Regulatory Commission
One White Flint North
11555 Rockville Pike
Mail Stop O -8 G9A
Rockville, Maryland 20852

Mr. M. M. Grace (without attachments)
Authorized Nuclear Insurance Inspector
North Anna Power Station

ATTACHMENT 3

AREVA AFFIDAVITS

**REVISED STRESS ANALYSIS CALCULATIONS
FOR PRESSURIZER SPRAY NOZZLES**

**Virginia Electric and Power Company
(Dominion)
North Anna Power Station Units 1 and 2**

requested qualifies under 10 CFR 2.390(a)(4) "Trade secrets and commercial or financial information."

6. The following criteria are customarily applied by AREVA NP to determine whether information should be classified as proprietary:

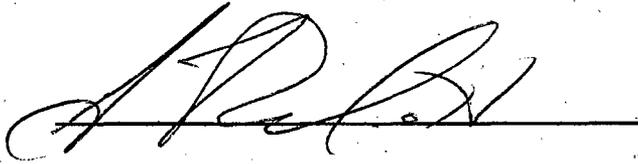
- (a) The information reveals details of AREVA NP's research and development plans and programs or their results.
- (b) Use of the information by a competitor would permit the competitor to significantly reduce its expenditures, in time or resources, to design, produce, or market a similar product or service.
- (c) The information includes test data or analytical techniques concerning a process, methodology, or component, the application of which results in a competitive advantage for AREVA NP.
- (d) The information reveals certain distinguishing aspects of a process, methodology, or component, the exclusive use of which provides a competitive advantage for AREVA NP in product optimization or marketability.
- (e) The information is vital to a competitive advantage held by AREVA NP, would be helpful to competitors to AREVA NP, and would likely cause substantial harm to the competitive position of AREVA NP.

The information in the Document is considered proprietary for the reasons set forth in paragraphs 6(b) and 6(c) above.

7. In accordance with AREVA NP's policies governing the protection and control of information, proprietary information contained in this Document have been made available, on a limited basis, to others outside AREVA NP only as required and under suitable agreement providing for nondisclosure and limited use of the information.

8. AREVA NP policy requires that proprietary information be kept in a secured file or area and distributed on a need-to-know basis.

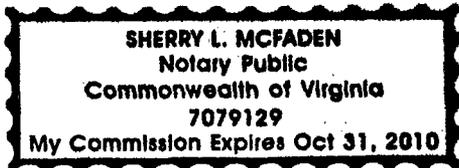
9. The foregoing statements are true and correct to the best of my knowledge, information, and belief.

A handwritten signature in black ink, appearing to be 'A. P. ...', written over a horizontal line.

SUBSCRIBED before me this 23rd
day of June, 2008.

A handwritten signature in black ink, appearing to be 'Sherry L. McFaden', written over a horizontal line.

Sherry L. McFaden
NOTARY PUBLIC, COMMONWEALTH OF VIRGINIA
MY COMMISSION EXPIRES: 10/31/10
Reg. # 7079129



requested qualifies under 10 CFR 2.390(a)(4) "Trade secrets and commercial or financial information."

6. The following criteria are customarily applied by AREVA NP to determine whether information should be classified as proprietary:

- (a) The information reveals details of AREVA NP's research and development plans and programs or their results.
- (b) Use of the information by a competitor would permit the competitor to significantly reduce its expenditures, in time or resources, to design, produce, or market a similar product or service.
- (c) The information includes test data or analytical techniques concerning a process, methodology, or component, the application of which results in a competitive advantage for AREVA NP.
- (d) The information reveals certain distinguishing aspects of a process, methodology, or component, the exclusive use of which provides a competitive advantage for AREVA NP in product optimization or marketability.
- (e) The information is vital to a competitive advantage held by AREVA NP, would be helpful to competitors to AREVA NP, and would likely cause substantial harm to the competitive position of AREVA NP.

The information in the Document is considered proprietary for the reasons set forth in paragraphs 6(b) and 6(c) above.

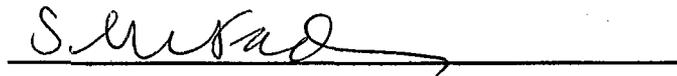
7. In accordance with AREVA NP's policies governing the protection and control of information, proprietary information contained in this Document have been made available, on a limited basis, to others outside AREVA NP only as required and under suitable agreement providing for nondisclosure and limited use of the information.

8. AREVA NP policy requires that proprietary information be kept in a secured file or area and distributed on a need-to-know basis.

9. The foregoing statements are true and correct to the best of my knowledge, information, and belief.

A handwritten signature in black ink, appearing to be 'S. McFaden', written over a horizontal line.

SUBSCRIBED before me this 20th
day of June, 2008.

A handwritten signature in black ink, appearing to be 'Sherry L. McFaden', written over a horizontal line.

Sherry L. McFaden
NOTARY PUBLIC, COMMONWEALTH OF VIRGINIA
MY COMMISSION EXPIRES: 10/31/10
Reg. # 7079129

