

**DATA REPORT Rev. 1**  
**GEOTECHNICAL EXPLORATION AND TESTING**

| Rev. 1

**VIRGINIA ELECTRIC AND POWER COMPANY**  
**NORTH ANNA NUCLEAR POWER STATION**  
**MINERAL, LOUISA COUNTY, VIRGINIA**

| Rev. 1

**September 28, 2007**

| Rev. 1

**VOLUME 1**

**TEXT, FIGURES, TABLES AND APPENDICES A AND B**

**Prepared For:**

**Virginia Electric and Power Company**  
**Richmond, Virginia**

| Rev. 1

**Prepared By:**

**MACTEC Engineering and Consulting, Inc.**  
**Raleigh, North Carolina**

**MACTEC Project No. 6468-06-1472**



engineering and constructing a better tomorrow

September 28, 2007

Mr. Raj Harnal  
Virginia Electric and Power Company  
Innsbrook Technical Center 2 SW  
5000 Dominion Blvd.  
Glen Allen, VA 23060

**Subject:      Data Report Rev 1  
                 North Anna Power Station  
                 COL Project  
                 Subsurface Investigation and Laboratory Testing  
                 Dominion P.O. No. 70157983  
                 MACTEC Job No. 6468-06-1472**

Dear Mr. Harnal:

MACTEC Engineering and Consulting, Inc. submitted Data Report, Rev 0 for the geotechnical exploration and laboratory testing for the COL Project located at the North Anna Power Station in Louisa County, Virginia on January 23, 2007. Since that submittal, MACTEC has found some minor items that require revision. We also understand that the name Dominion Nuclear North Anna has been changed, and the new name, Virginia Electric and Power Company, needs to be shown on the report cover.

Revision 1 consists of replacement pages for selected portions of the text, a revised page 4 for table 3.1 and replacement covers for each volume. Six pages are to be removed from Appendix F.1 as well. A revised cover page for Appendix F.1 identifying the samples that are removed by revision 1 is included. A page listing the pages being replaced is included. Replacement pages have sidebars indicating where changes have been made. We are providing one hard copy and one pdf copy on CD. We understand Virginia Electric and Power will combine the Rev. 1 pages into the Rev. 0 Data Report and distribute copies of Rev. 1 to appropriate parties.

It has been our pleasure to provide geotechnical services on this report. If you have any questions on the information in this report, or if we may be of further service, we hope that you will contact us at your convenience.

Very truly yours,

MACTEC ENGINEERING & CONSULTING, INC.

A handwritten signature in black ink, appearing to read "Stephen Criscenzo".

Stephen Criscenzo  
Project Manager

A handwritten signature in black ink, appearing to read "J. Allan Tice".

J. Allan Tice, P.E.  
Project Principal  
Registered VA 5264

Attachments

Cc:      Mr. Richard Baker, Bechtel w/o att

Replacement Page List  
Geotechnical Data Report, Rev. 1  
North Anna Nuclear Power Station

| Volume No. | Page No. to Replace    | Revision                                                                          |
|------------|------------------------|-----------------------------------------------------------------------------------|
| 1          | Volume 1 cover         | Modify date, Dominion name and Revision No.                                       |
| 1          | Transmittal Letter     | New to address revision 1                                                         |
| 1          | Report Cover Sheet     | Modify date, Dominion name and Revision No.                                       |
| 1          | 3                      | Remove Appendix G from List of Appendices                                         |
| 1          | 12                     | Add reference to supplemental report for RCTS tests                               |
| 1          | Table 3.1, page 4 of 5 | Removed lines for B-929A, UD-4 and B-933A, UD-2.                                  |
| 2          | Volume 2 Cover         | Modify date, Dominion name and Revision No.                                       |
| 3          | Volume 3 Cover         | Modify date, Dominion name and Revision No.                                       |
| 4          | Volume 4 Cover         | Modify date, Dominion name and Revision No, remove Appendix G.                    |
| 4          | Appendix F.1           | Remove Test results sheets for B-929A, UD-4 (3 sheets) and B-933, UD-2 (3 sheets) |



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January 23, 2007

Mr. Raj Harnal  
Dominion Nuclear North Anna, LLC  
Innsbrook Technical Center 2 SW  
5000 Dominion Blvd.  
Glen Allen, VA 23060

**Subject: Data Report Rev 0  
North Anna Power Station  
COL Project  
Subsurface Investigation and Laboratory Testing  
Dominion P.O. No. 70157983  
MACTEC Job No. 6468-06-1472**

Dear Mr. Harnal:

MACTEC Engineering and Consulting, Inc. is pleased to submit this Data Report, Rev 0 for the geotechnical exploration and laboratory testing for the COL Project located at the North Anna Power Station in Louisa County, Virginia.

One group of tests, RCTS Testing, will be completed in the future. As discussed, we will provide the test results as a Supplemental report when the tests are completed.

This report consists of four Volumes including the body of the report, Tables, Figures, and Appendices to the report. We are providing two copies of the report to you, one bound and one unbound. A third copy is being transmitted to Mr. Rich Baker at Bechtel. A DVD disk containing electronic files for all information in this report will be provided under separate cover to you and to Bechtel. This DVD will also contain supplemental data files for the geophysical testing referenced in the report.

It has been our pleasure to provide geotechnical services on this report. If you have any questions on the information in this report, or if we may be of further service, we hope that you will contact us at your convenience.

Very truly yours,

MACTEC ENGINEERING & CONSULTING, INC.

Stephen Criscenzo  
Project Manager

J. Allan Tice, P.E.  
Project Principal  
Registered VA 5264



Cc: Mr. Richard Baker, Bechtel