

July 11, 2006

Mr. David A. Christian
Senior Vice President
and Chief Nuclear Officer
Virginia Electric and Power Company
Innsbrook Technical Center
5000 Dominion Boulevard
Glen Allen, VA 23060-6711

SUBJECT: NORTH ANNA POWER STATION, UNIT NO. 2 (NORTH ANNA 2), REVIEW OF
STEAM GENERATOR TUBE INSERVICE INSPECTION REPORT FOR THE
FALL 2005 REFUELING OUTAGE (TAC NO. MD0266)

Dear Mr. Christian:

By letters dated October 21, 2005, and February 28, 2006, Virginia Electric and Power Company (VEPCO) submitted reports summarizing the steam generator (SG) tube inspections performed during the fall 2005 refueling outage at North Anna 2.

The Nuclear Regulatory Commission (NRC) staff's review of VEPCO's SG tube inspection report is enclosed. Based on its review, the NRC staff has concluded that VEPCO has provided the information required by their technical specifications for North Anna 2. The NRC staff's review did not identify any new technical issues that warrant follow-up action.

Sincerely,

/RA/

Stephen Monarque, Project Manager
Plant Licensing Branch II-1
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

Docket No. 50-339

Enclosure:
Safety Evaluation

cc w/encl: See next page

July 11, 2006

Mr. David A. Christian
Senior Vice President
and Chief Nuclear Officer
Virginia Electric and Power Company
Innsbrook Technical Center
5000 Dominion Boulevard
Glen Allen, VA 23060-6711

SUBJECT: NORTH ANNA POWER STATION, UNIT NO. 2 (NORTH ANNA 2), REVIEW OF
STEAM GENERATOR TUBE INSERVICE INSPECTION REPORT FOR THE
FALL 2005 REFUELING OUTAGE (TAC NO. MD0266)

Dear Mr. Christian:

By letters dated October 21, 2005, and February 28, 2006, Virginia Electric and Power Company (VEPCO) submitted reports summarizing the steam generator (SG) tube inspections performed during the fall 2005 refueling outage at North Anna 2.

The Nuclear Regulatory Commission (NRC) staff's review of VEPCO's SG tube inspection report is enclosed. Based on its review, the NRC staff has concluded that VEPCO has provided the information required by their technical specifications for North Anna 2. The NRC staff's review did not identify any new technical issues that warrant follow-up action.

Sincerely,

/RA/

Stephen Monarque, Project Manager
Plant Licensing Branch II-1
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

Docket No. 50-339

Enclosure:
Safety Evaluation

cc w/encl: See next page

DISTRIBUTION:

Public	RidsAcrcAcnwMailCenter
LPL2-1 R/F	RidsOgcRp
RidsNrrDorLplc(EMarinos)	RidsRgn2MailCenter(KLandis)
RidsNrrPMSMonarque	RidsNrrDciCsgb(TBloomer)
RidsNrrLAMO'Brien	RidsNrrDciCsgb(MVaaler)

Adams Accession No. ML062000123

*input by memo dated

OFFICE	NRR/LPL2-1/PM	NRR/LPD2-1/LA	NRR/CSGB/ABC	NRR/LPL2-1/BC
NAME	SMonarque	MO'Brien	TBloomer*	EMarinos
DATE	7/3/2006	7/6/2006	06/01/2006	7/11/2006

OFFICIAL RECORD COPY

EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION

REGARDING THE FALL 2005 REFUELING OUTAGE

STEAM GENERATOR TUBE INSERVICE INSPECTION REPORT

VIRGINIA ELECTRIC AND POWER COMPANY

NORTH ANNA POWER STATION, UNIT NO. 2

DOCKET NO. 50-339

By letters dated October 21, 2005, and February 28, 2006, Virginia Electric and Power Company (the licensee) submitted reports summarizing the steam generator (SG) tube inspections performed during the fall 2005 refueling outage for SG-B at North Anna Power Station, Unit No. 2 (North Anna 2). These reports were submitted in accordance with Technical Specification (TS) Sections 5.6.7.a, 5.6.7.b, and 5.5.8. A summary of the Nuclear Regulatory Commission (NRC) staff's evaluation of the fall 2005 refueling outage SG tube inspection results is provided below.

North Anna 2 has three replacement Westinghouse Model 54F SGs that are designated A, B, and C. Each SG contains 3,592 thermally treated Inconel 690 tubes, which have an outside diameter of 0.875 inch and a wall thickness of 0.050 inch. The tubes have been hydraulically expanded into the tubesheet and the stainless steel Type 405 tube support plates contain broached quatrefoil holes. These SGs began operation in 1995.

Only SG-B was inspected during the fall 2005 refueling outage. The last inspection of SG-B took place during the fall 1999 refueling outage. The licensee inspected 3592 tubes (100 percent of tubes in SG-B), full length (tube end cold to tube end hot), using a bobbin probe. A +Point™ probe was used to inspect approximately 20 percent (719 tubes) of the tubes in the hot-leg expansion transition region and 100 percent (98 tubes) of the tubes in the U-bend region in Row 1 (top hot leg support to top cold leg support).

The licensee provided the scope, extent, methods, and results of its SG tube inspections in the documents referenced above. Based on a review of the information provided, the NRC staff concludes that the licensee provided the information required by the TSs. In addition, the NRC staff concludes that there are no technical issues that warrant follow-up action at this time since the inspections appear to be consistent with the objective of detecting potential tube degradation and the inspection results appear to be consistent with industry operating experience at similarly designed and operated units.

Principal Contributor: M. Vaaler

Date: July 11, 2006

North Anna Power Station, Units 1 & 2

cc:

Mr. C. Lee Lintecum
County Administrator
Louisa County
Post Office Box 160
Louisa, Virginia 23093

Ms. Lillian M. Cuoco, Esq.
Senior Counsel
Dominion Resources Services, Inc.
Building 475, 5th floor
Rope Ferry Road
Waterford, Connecticut 06385

Dr. W. T. Lough
Virginia State Corporation Commission
Division of Energy Regulation
Post Office Box 1197
Richmond, Virginia 23218

Old Dominion Electric Cooperative
4201 Dominion Blvd.
Glen Allen, Virginia 23060

Mr. Chris L. Funderburk, Director
Nuclear Licensing & Operations Support
Dominion Resources Services, Inc.
Innsbrook Technical Center
5000 Dominion Blvd.
Glen Allen, Virginia 23060-6711

Office of the Attorney General
Commonwealth of Virginia
900 East Main Street
Richmond, Virginia 23219

Senior Resident Inspector
North Anna Power Station
U. S. Nuclear Regulatory Commission
1024 Haley Drive
Mineral, Virginia 23117

Mr. Jack M. Davis
Site Vice President
North Anna Power Station
Virginia Electric and Power Company
Post Office Box 402
Mineral, Virginia 23117-0402

Dr. Robert B. Stroube, MD, MPH
State Health Commissioner
Office of the Commissioner
Virginia Department of Health
Post Office Box 2448
Richmond, Virginia 23218