



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
REGION II  
SAM NUNN ATLANTA FEDERAL CENTER  
61 FORSYTH STREET SW SUITE 23T85  
ATLANTA, GEORGIA 30303-8931

March 2, 2005

Virginia Electric and Power Company  
ATTN.: Mr. David A. Christian  
Sr. Vice President and  
Chief Nuclear Officer  
Innsbrook Technical Center - 2SW  
5000 Dominion Boulevard  
Glen Allen, VA 23060-6711

SUBJECT: ANNUAL ASSESSMENT LETTER - NORTH ANNA POWER STATION (NRC  
INSPECTION REPORT 05000338/2005001, 05000339/2005001)

Dear Mr. Christian:

On February 10, 2005, the NRC staff completed its end-of-cycle plant performance assessment of North Anna Power Station. The end-of-cycle review for North Anna Units 1 and 2 involved the participation of the reactor technical divisions in evaluating performance indicators (PIs) for the most recent quarter and inspection results for the period from January 1 through December 31, 2004. The purpose of this letter is to inform you of our assessment of your safety performance during this period and our plans for future inspections at your facility. This will allow you an opportunity to prepare for these inspections and to inform us of any planned inspections that may conflict with your plant activities. This performance review and the enclosed inspection plan do not include physical protection information. A separate end-of-cycle performance review letter, designated and marked as "Exempt from Public Disclosure in accordance with 10 CFR 2.390," will include the physical protection review.

Overall, North Anna Units 1 and 2 operated in a manner that preserved public health and safety and fully met all cornerstone objectives. Plant performance for the most recent quarter, as well as for the first three quarters of the assessment cycle, was within the Licensee Response Column of the NRC's Action Matrix, based on all inspection findings being classified as having very low safety significance (Green) and all PIs indicating performance at a level requiring no additional NRC oversight (Green). Therefore, we plan to conduct only reactor oversight process (ROP) baseline inspections at your facility through September 30, 2006. We also plan to conduct several non-ROP inspections which include inspections of the pressurizer nozzles and steam space pipe connections and of your Independent Spent Fuel Storage Installation.

The enclosed inspection plan details the inspections, less those related to physical protection, scheduled through September 30, 2006. The inspection plan is provided to minimize the resource impact on your staff and to allow for scheduling conflicts and personnel availability to be resolved in advance of inspector arrival onsite. Routine resident inspections are not listed due to their ongoing and continuous nature. The inspections in the last nine months of the inspection plan are tentative and may be revised at the mid-cycle review meeting.

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter and its enclosure will be made available electronically for public inspection in the NRC Public Document Room or from the Publicly Available Records (PARS) component of NRC's document system (ADAMS). ADAMS is accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

If circumstances arise which cause us to change this inspection plan, we will contact you to discuss the change as soon as possible. Please contact me at 404-562-4510 with any questions you may have regarding this letter or the inspection plan.

Sincerely,

**//RA//**

Kerry D. Landis, Chief  
Reactor Projects Branch 5  
Division of Reactor Projects

Docket Nos. 50-338, 50-339; Docket No. 72-016  
License Nos. NPR-4, NPR-7; License No. SNM-2507

Enclosure: North Anna Inspection/Activity Plan

cc w/encl.:

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**North Anna**  
**Inspection / Activity Plan**  
**03/01/2005 - 09/30/2006**

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates Start	Planned Dates End	Inspection Type
	<b>MTN-IFI - CORRECTIVE ACTION FOR PIPE SUPPORTS</b>		<b>2</b>			
1,2	IP 71152	Identification and Resolution of Problems		03/07/2005	03/11/2005	Baseline Inspections
	<b>EB1SSDPC - SAFETY SYSTEM DESIGN &amp; PERF. CAPABILITY</b>		<b>5</b>			
1,2	IP 7111121	Safety System Design and Performance Capability		03/21/2005	03/25/2005	Baseline Inspections
1,2	IP 7111121	Safety System Design and Performance Capability		04/11/2005	04/15/2005	Baseline Inspections
	<b>PS1-RP - RP PUBLIC BASELINE &amp; ISFSI</b>		<b>4</b>			
1,2	IP 60855.1	Operation of an Independent Spent Fuel Storage Installation at Operating Plants		07/18/2005	07/22/2005	Other Routine
1,2	IP 7112101	Access Control to Radiologically Significant Areas		07/18/2005	07/22/2005	Baseline Inspections
1,2	IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment		07/18/2005	07/22/2005	Baseline Inspections
1,2	IP 7112201	Radioactive Gaseous and Liquid Effluent Treatment and Monitoring Systems		07/18/2005	07/22/2005	Baseline Inspections
1,2	IP 7112203	Radiological Environmental Monitoring Program		07/18/2005	07/22/2005	Baseline Inspections
1,2	IP 71151	Performance Indicator Verification		07/18/2005	07/22/2005	Baseline Inspections
	<b>PS EP - EP INSPECTION</b>		<b>1</b>			
1,2	IP 7111402	Alert and Notification System Testing		08/01/2005	08/05/2005	Baseline Inspections
1,2	IP 7111403	Emergency Response Organization Augmentation Testing		08/01/2005	08/05/2005	Baseline Inspections
1,2	IP 7111404	Emergency Action Level and Emergency Plan Changes		08/01/2005	08/05/2005	Baseline Inspections
1,2	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies		08/01/2005	08/05/2005	Baseline Inspections
1,2	IP 71151	Performance Indicator Verification		08/01/2005	08/05/2005	Baseline Inspections
	<b>MTN-MR - MR EFFECTIVENESS</b>		<b>1</b>			
1,2	IP 7111112B	Maintenance Effectiveness		08/15/2005	08/19/2005	Baseline Inspections
	<b>MTN-ISI - U2 INSERVICE INSPECTION</b>		<b>2</b>			
2	IP 7111108P	Inservice Inspection Activities - PWR		10/10/2005	10/14/2005	Baseline Inspections
	<b>MTNT1160 - 2515/160 U-2: PZR PENETRATION NOZZLES</b>		<b>1</b>			
2	IP 2515/160	Pzr Pene Nozzles & Stm Space Piping Connections in U.S. PWRs [NRC Bulletin 2004-01]		10/10/2005	10/14/2005	Safety Issues
	<b>MTNSGISI - U2 STEAM GENERATOR ISI</b>		<b>1</b>			
2	IP 7111108P	Inservice Inspection Activities - PWR		10/17/2005	10/21/2005	Baseline Inspections
	<b>EB2-TFP - FIRE PROTECTION-TRIENNIAL PRE INSP VISIT</b>		<b>3</b>			
1,2	IP 7111105T	Fire Protection		12/12/2005	12/16/2005	Baseline Inspections
	<b>OL RQ - REQUAL INSPECTION</b>		<b>2</b>			
1,2	IP 7111111B	Licensed Operator Requalification Program		01/23/2006	01/27/2006	Baseline Inspections
	<b>EB2-TFP - FIRE PROTECTION-TRIENNIAL</b>		<b>4</b>			
1,2	IP 7111105T	Fire Protection		01/23/2006	01/27/2006	Baseline Inspections
1,2	IP 7111105T	Fire Protection		02/06/2006	02/10/2006	Baseline Inspections
	<b>PS1-RP - RP BASELINE OCCUPATIONAL WK1</b>		<b>3</b>			
1,2	IP 7112101	Access Control to Radiologically Significant Areas		03/13/2006	03/17/2006	Baseline Inspections

This report does not include INPO and OUTAGE activities.  
This report shows only on-site and announced inspection procedures.

ENClosure

**North Anna**  
**Inspection / Activity Plan**  
**03/01/2005 - 09/30/2006**

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates Start	Planned Dates End	Inspection Type
	<b>PS1-RP - RP BASELINE OCCUPATIONAL WK1</b>		<b>3</b>			
1,2	IP 7112102	ALARA Planning and Controls		03/13/2006	03/17/2006	Baseline Inspections
1,2	IP 7112202	Radioactive Material Processing and Transportation		03/13/2006	03/17/2006	Baseline Inspections
1,2	IP 71151	Performance Indicator Verification		03/13/2006	03/17/2006	Baseline Inspections
	<b>MTN-ISI - U1 INSERVICE INSPECTION</b>		<b>1</b>			
1	IP 7111108P	Inservice Inspection Activities - PWR		03/20/2006	03/24/2006	Baseline Inspections
	<b>MTNT1160 - 2515/160 U-1: PZR PENETRATION NOZZLES</b>		<b>1</b>			
1	IP 2515/160	Pzr Pene Nozzles & Strm Space Piping Connections in U.S. PWRs [NRC Bulletin 2004-01]		03/20/2006	03/24/2006	Safety Issues
	<b>MTNSGISI - U1 STEAM GENERATOR ISI</b>		<b>1</b>			
1	IP 7111108P	Inservice Inspection Activities - PWR		03/27/2006	03/31/2006	Baseline Inspections
	<b>PS1-RP - RP BASELINE OCCUPATIONAL WK2</b>		<b>2</b>			
1,2	IP 7112101	Access Control to Radiologically Significant Areas		03/27/2006	03/31/2006	Baseline Inspections
1,2	IP 7112202	Radioactive Material Processing and Transportation		03/27/2006	03/31/2006	Baseline Inspections
1,2	IP 71151	Performance Indicator Verification		03/27/2006	03/31/2006	Baseline Inspections
	<b>MTN-HS - HEAT SINK</b>		<b>1</b>			
1,2	IP 7111107B	Heat Sink Performance		04/24/2006	04/28/2006	Baseline Inspections
	<b>OL PREP - INITIAL EXAM PREP</b>		<b>3</b>			
1	V23217	NORTH ANNA/EXAMS AT POWER FACILITIES		05/01/2006	05/05/2006	Not Applicable
	<b>OL EXAM - INITIAL EXAM WEEK 1</b>		<b>3</b>			
1	V23217	NORTH ANNA/EXAMS AT POWER FACILITIES		05/22/2006	05/26/2006	Not Applicable
	<b>OL EXAM - INITIAL EXAM WEEK 2</b>		<b>3</b>			
1	V23217	NORTH ANNA/EXAMS AT POWER FACILITIES		06/05/2006	06/09/2006	Not Applicable
	<b>EB1-MODS - MODIFICATIONS/10CFR50.59</b>		<b>3</b>			
1,2	IP 7111102	Evaluation of Changes, Tests, or Experiments		06/26/2006	06/30/2006	Baseline Inspections
1,2	IP 7111117B	Permanent Plant Modifications		06/26/2006	06/30/2006	Baseline Inspections
	<b>PS2-EP - EP EXERCISE</b>		<b>3</b>			
1,2	IP 7111401	Exercise Evaluation		08/22/2006	08/26/2006	Baseline Inspections
1,2	IP 7111404	Emergency Action Level and Emergency Plan Changes		08/22/2006	08/26/2006	Baseline Inspections
1,2	IP 71151	Performance Indicator Verification		08/22/2006	08/26/2006	Baseline Inspections