



**UNITED STATES
NUCLEAR REGULATORY COMMISSION**
REGION II
245 PEACHTREE CENTER AVENUE NE, SUITE 1200
ATLANTA, GEORGIA 30303-1257

March 2, 2016

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

**SUBJECT: ANNUAL ASSESSMENT LETTER FOR NORTH ANNA POWER STATION,
UNITS 1 AND 2 – NRC INSPECTION REPORT 05000338/2015006 AND
05000339/2015006**

Dear Mr. Heacock:

On February 11, 2016, the Nuclear Regulatory Commission (NRC) completed its end-of-cycle performance review of North Anna Power Station, Units 1 and 2. The NRC reviewed the most recent quarterly performance indicators (PIs) in addition to inspection results and enforcement actions from January 1 through December 31, 2015. This letter informs you of the NRC's assessment of your facility during this period and its plans for future inspections at your facility.

The NRC determined that overall, North Anna Power Station, Units 1 and 2, operated in a manner that preserved public health and safety and met all cornerstone objectives. The NRC determined the performance at North Anna Power Station, Units 1 and 2, during the most recent quarter was within the Licensee Response Column of the NRC's Reactor Oversight Process (ROP) Action Matrix because all inspection findings had very low (i.e., green) safety significance and all PIs indicated that your performance was within the nominal, expected range (i.e., green). Therefore, the NRC plans to conduct ROP baseline inspections at your facility.

The enclosed inspection plan lists the inspections scheduled through December 31, 2017. Routine inspections performed by resident inspectors are not included in the inspection plan. The inspections listed during the last nine months of the inspection plan are tentative and may be revised at the mid-cycle performance review. The NRC provides the inspection plan to allow for the resolution of any scheduling conflicts and personnel availability issues. The NRC will contact you as soon as possible to discuss changes to the inspection plan should circumstances warrant any changes. This inspection plan does not include security-related inspections, which will be sent via separate, non-publicly available correspondence.

Additionally, the NRC plans on conducting two non-ROP baseline inspections which include an Operating Licensing Initial Exam and North Anna Unit 1 Post Approval License Renewal Phase 1.

The NRC staff received the North Anna Power Station Final Compliance letter for Order EA-12-049, "Order Modifying Licenses with Regard to Requirements for Mitigation Strategies for Beyond-Design-Basis External Events" and Order EA-12-051, "Order Modifying Licenses with Regard to Reliable Spent Fuel Pool Instrumentation." The NRC staff issued the North Anna Power Station Final Safety Evaluation on January 15, 2016, and will confirm full implementation of the orders mentioned above by performing TI 191, "Inspection of the Implementation of Mitigation Strategies and Spent Fuel Pool Instrumentation Orders and Emergency Preparedness Communication/Staffing/Multi-Unit Dose Assessment Plans."

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

Please contact me at 404-997-4609 with any questions you may have regarding this letter.

Sincerely,

/RA/

Steven D. Rose, Chief
Reactor Projects Branch 5
Division of Reactor Projects

Docket Nos.: 50-338, 50-339

License Nos.: NPF-4, NPF-7

Enclosure:

North Anna Inspection/Activity Plan
(03/01/2016 – 12/31/2017)

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D. Heacock

2

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☒ PUBLICLY AVAILABLE ☐ NON-PUBLICLY AVAILABLE ☐ SENSITIVE ☒ NON-SENSITIVE
ADAMS: ☒ Yes ACCESSION NUMBER: ML16062A228 ☒ SUNSI REVIEW COMPLETE ☐ FORM 665 ATTACHED

OFFICE	DRP:RII	DRP:RII	DRP:RII			
SIGNATURE	BDB	SON	SDR2			
NAME	B. Bishop	S. Ninh	S. Rose			
DATE	2/22/2016	2/29/2016	2/29/2016			
E-MAIL COPY?	YES NO	YES NO	<u>YES</u> NO	YES NO	YES NO	YES NO

OFFICIAL RECORD COPY DOCUMENT NAME: S:\DRP\PERIODIC ASSESSMENTS & REPORTS\EOC & MID-CYCLE\2015\END OF CYCLE\INPUT\RPB5\NA EOC LETTER 2015.DOCX

D. Heacock

3

Letter to David A. Heacock from Steven D. Rose dated March 2, 2016

SUBJECT: ANNUAL ASSESSMENT LETTER FOR NORTH ANNA POWER STATION,
UNITS 1 AND 2 – NRC INSPECTION REPORT 05000338/2015006 AND
05000339/2015006

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Institute of Nuclear Power Operations (INPO)

North Anna
Inspection / Activity Plan
03/01/2016 - 12/31/2017

Unit Number	Planned Dates Start End	Inspection Activity	Title	No. of Staff on Site
		ISI - UNIT 2 IN-SERVICE INSPECTION		1
2	03/14/2016 03/18/2016	IP 7111108P	Inservice Inspection Activities - PWR	
		SGISI - UNIT 2 SG IN-SERVICE INSPECTION		1
2	03/14/2016 03/18/2016	IP 7111108P	Inservice Inspection Activities - PWR	
		RP - RP OCCUPATIONAL INSPECTION WEEK 1		2
1, 2	03/21/2016 03/25/2016	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1, 2	03/21/2016 03/25/2016	IP 71124.02	Occupational ALARA Planning and Controls	
1, 2	03/21/2016 03/25/2016	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1, 2	03/21/2016 03/25/2016	IP 71124.04	Occupational Dose Assessment	
1, 2	03/21/2016 03/25/2016	IP 71124.05	Radiation Monitoring Instrumentation	
1, 2	03/21/2016 03/25/2016	IP 71151	Performance Indicator Verification	
		RP - RP OCCUPATIONAL INSPECTION WEEK 2		3
1, 2	04/04/2016 04/08/2016	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1, 2	04/04/2016 04/08/2016	IP 71124.02	Occupational ALARA Planning and Controls	
1, 2	04/04/2016 04/08/2016	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1, 2	04/04/2016 04/08/2016	IP 71124.04	Occupational Dose Assessment	
1, 2	04/04/2016 04/08/2016	IP 71124.05	Radiation Monitoring Instrumentation	
1, 2	04/04/2016 04/08/2016	IP 71151	Performance Indicator Verification	
		OL EXAM - INITIAL LICENSE EXAM PREP		3
1	05/23/2016 05/27/2016	V23472	NORTH ANNA JUNE 2016 INITIAL EXAM AT POWER FACILITIES	
		OL EXAM - INITIAL LICENSE EXAM		3
1	06/20/2016 07/01/2016	V23472	NORTH ANNA JUNE 2016 INITIAL EXAM AT POWER FACILITIES	
		ISI - UNIT 1 IN-SERVICE INSPECTION		1
1	09/19/2016 09/23/2016	IP 7111108P	Inservice Inspection Activities - PWR	
		LR - UNIT 1 POST APPROVAL LR PHASE 1		2
1	09/19/2016 09/23/2016	IP 71003	Post-Approval Site Inspection for License Renewal	
		PI&R - PROBLEM IDENTIFICATION AND RESOLUTION		5
1, 2	01/30/2017 02/03/2017	IP 71152B	Problem Identification and Resolution	
1, 2	02/13/2017 02/17/2017	IP 71152B	Problem Identification and Resolution	
		MODS - PLANT MODIFICATIONS INSPECTION		3
1, 2	04/17/2017 04/21/2017	IP 7111117T	Evaluations of Changes, Tests, and Experiments and Permanent Plant Modifications	
1, 2	05/01/2017 05/05/2017	IP 7111117T	Evaluations of Changes, Tests, and Experiments and Permanent Plant Modifications	

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
03/01/2016 - 12/31/2017

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
Start	End				
EP - EP PROGRAM INSPECTION					
					4
1, 2	06/12/2017	06/16/2017	IP 7111402	Alert and Notification System Testing	
1, 2	06/12/2017	06/16/2017	IP 7111403	Emergency Preparedness Organization Staffing and Augmentation System	
1, 2	06/12/2017	06/16/2017	IP 7111404	Emergency Action Level and Emergency Plan Changes	
1, 2	06/12/2017	06/16/2017	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies	
1, 2	06/12/2017	06/16/2017	IP 71151	Performance Indicator Verification	
RP - RP PUBLIC RAD SAFETY BASELINE					
					2
1, 2	07/31/2017	08/04/2017	IP 71124.06	Radioactive Gaseous and Liquid Effluent Treatment	
1, 2	07/31/2017	08/04/2017	IP 71124.07	Radiological Environmental Monitoring Program	
1, 2	07/31/2017	08/04/2017	IP 71151	Performance Indicator Verification	
HS - TRIENNIAL HEAT SINK PERFORMANCE					
					1
1, 2	08/28/2017	09/01/2017	IP 7111107T	Heat Sink Performance	
ISI - UNIT 2 IN-SERVICE INSPECTION					
					1
2	09/18/2017	09/22/2017	IP 7111108P	Inservice Inspection Activities - PWR	
RP - RAD HAZARDS AND TRANSPORTATION					
					2
1, 2	09/18/2017	09/22/2017	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1, 2	09/18/2017	09/22/2017	IP 71124.08	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	