



**UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION II**

245 PEACHTREE CENTER AVENUE NE, SUITE 1200
ATLANTA, GEORGIA 30303-1257

March 1, 2017

Mr. Daniel G. Stoddard
Senior Vice President and Chief Nuclear Officer
Innsbrook Technical Center
5000 Dominion Boulevard
Glen Allen, VA 23060-6711

**SUBJECT: ANNUAL ASSESSMENT LETTER FOR NORTH ANNA POWER STATION,
UNITS 1 AND 2 – REPORT 05000338/2016006 AND 05000339/2016006**

Dear Mr. Stoddard:

The NRC has completed its end-of-cycle performance assessment of North Anna Power Station, Units 1 and 2, reviewing performance indicators (PIs), inspection results, and enforcement actions from January 1, 2016 through December 31, 2016. 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 concluded that overall performance at your facility preserved public health and safety.

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, the highest performance category of the NRC's Reactor Oversight Process (ROP) Action Matrix, because all inspection findings had very low safety significance (i.e., Green), and all PIs were within the 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, 2018. The NRC provides the inspection plan to allow for the resolution of any scheduling conflicts and personnel availability issues. Routine inspections performed by resident inspectors are not included in the inspection plan. The inspections listed during the last twelve months of the inspection plan are tentative and may be revised. 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 the plan for security-related inspections, which will be sent via separate, non-publicly available correspondence.

Additionally, the NRC plans on conducting three non-ROP baseline inspections which include Post Approval License Renewal Phase 2, an initial license examination, and TI-192 (Inspection of the Licensee's Interim Compensatory Measures Associated with the Open Phase Condition Design Vulnerabilities in Electric Power Systems).

D. Stoddard

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In accordance with Title 10 of the *Code of Federal Regulations* (10 CFR) 2.390 of the NRC's "Rules of Practice," a copy of this letter will be 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).

Please contact me at 404-997-4465 with any questions you may have regarding this letter.

Sincerely,

/RA/

Anthony D. Masters, 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
(03/01/2017 – 12/31/2018)

cc Distribution via ListServ

D. Stoddard

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UNITS 1 AND 2 – REPORT 05000338/2016006 AND 05000339/2016006
March 1, 2017

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ROPreports Resource

Institute of Nuclear Power Operations (INPO)

ADAMS Accession Number: ML 17060A206

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North Anna
Inspection / Activity Plan
03/01/2017 - 12/31/2018

Unit Number	Planned Dates Start End	Inspection Activity	Title	No. of Staff on Site
		DRP/RPB5 - TI-192		2
1, 2	01/01/2017 03/31/2017	IP 2515/192	Inspection of the Licensee's Interim Compensatory Measures Associated with the Open Phase Condition	
		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	
		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	
		PI&R - PROBLEM IDENTIFICATION AND RESOLUTION		4
1, 2	07/10/2017 07/14/2017	IP 71152B	Problem Identification and Resolution	
1, 2	07/24/2017 07/28/2017	IP 71152B	Problem Identification and Resolution	
		RP - RP PUBLIC RAD SAFETY BASELINE		2
1, 2	08/07/2017 08/11/2017	IP 71124.06	Radioactive Gaseous and Liquid Effluent Treatment	
1, 2	08/07/2017 08/11/2017	IP 71124.07	Radiological Environmental Monitoring Program	
1, 2	08/07/2017 08/11/2017	IP 71151	Performance Indicator Verification	
		HS - TRIENNIAL HEAT SINK PERFORMANCE		1
1, 2	08/14/2017 08/18/2017	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	
		LR - POST APPROVAL LR PHASE 2		5
1, 2	11/27/2017 12/01/2017	IP 71003	Post-Approval Site Inspection for License Renewal	
1, 2	12/11/2017 12/15/2017	IP 71003	Post-Approval Site Inspection for License Renewal	
		OL RQ - REQUAL INSPECTION		2
1, 2	01/22/2018 01/26/2018	IP 7111111B	Licensed Operator Requalification Program	
		ISI - UNIT 1 IN-SERVICE INSPECTION		1
1	03/19/2018 03/23/2018	IP 7111108P	Inservice Inspection Activities - PWR	
		RP - RP OCCUPATIONAL - WEEK 1		3
1, 2	03/19/2018 03/23/2018	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	

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
03/01/2017 - 12/31/2018

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
Start	End				
RP - RP OCCUPATIONAL - WEEK 1					
					3
1, 2	03/19/2018	03/23/2018	IP 71124.02	Occupational ALARA Planning and Controls	
1, 2	03/19/2018	03/23/2018	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1, 2	03/19/2018	03/23/2018	IP 71124.04	Occupational Dose Assessment	
1, 2	03/19/2018	03/23/2018	IP 71124.05	Radiation Monitoring Instrumentation	
1, 2	03/19/2018	03/23/2018	IP 71151-OR01	Occupational Exposure Control Effectiveness	
1, 2	03/19/2018	03/23/2018	IP 71151-PR01	RETS/ODCM Radiological Effluent Occurrences	
SGISI - UNIT 1 SG IN-SERVICE INSPECTION					
					1
1	03/26/2018	03/30/2018	IP 7111108P	Inservice Inspection Activities - PWR	
RP - RP OCCUPATIONAL - WEEK 2					
					2
1, 2	04/02/2018	04/06/2018	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1, 2	04/02/2018	04/06/2018	IP 71124.02	Occupational ALARA Planning and Controls	
1, 2	04/02/2018	04/06/2018	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1, 2	04/02/2018	04/06/2018	IP 71124.04	Occupational Dose Assessment	
1, 2	04/02/2018	04/06/2018	IP 71124.05	Radiation Monitoring Instrumentation	
1, 2	04/02/2018	04/06/2018	IP 71151-OR01	Occupational Exposure Control Effectiveness	
1, 2	04/02/2018	04/06/2018	IP 71151-PR01	RETS/ODCM Radiological Effluent Occurrences	
TFPI - TRIENNIAL FIRE PROTECTION INSPECTION					
					5
1, 2	05/07/2018	05/11/2018	IP 7111105T	Fire Protection [Triennial]	
1, 2	05/21/2018	05/25/2018	IP 7111105T	Fire Protection [Triennial]	
OL EXAM - INITIAL LICENSE EXAM PREP					
					3
1	05/14/2018	05/18/2018	V23514	NORTH ANNA / JUNE 2018 INITIAL EXAM AT POWER FACILITIES	
OL EXAM - INITIAL LICENSE EXAM					
					3
1	06/11/2018	06/29/2018	V23514	NORTH ANNA / JUNE 2018 INITIAL EXAM AT POWER FACILITIES	
EP - EP EXERCISE					
					7
1, 2	07/16/2018	07/20/2018	IP 7111401	Exercise Evaluation	
1, 2	07/16/2018	07/20/2018	IP 7111404	Emergency Action Level and Emergency Plan Changes	
1, 2	07/16/2018	07/20/2018	IP 71151-EP01	Drill/Exercise Performance	
1, 2	07/16/2018	07/20/2018	IP 71151-EP02	ERO Readiness	
1, 2	07/16/2018	07/20/2018	IP 71151-EP03	Alert & Notification System Reliability	
DBAI - DESIGN BASES ASSURANCE INSPECTION (TEAM)					
					6
1, 2	10/01/2018	10/05/2018	IP 7111121M	Component Design Bases Inspection (Teams)	
1, 2	10/29/2018	11/02/2018	IP 7111121M	Component Design Bases Inspection (Teams)	

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Inspection / Activity Plan
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Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
			DBAI - DESIGN BASES ASSURANCE INSPECTION (TEAM)		
1, 2	11/12/2018	11/16/2018	IP 7111121M	Component Design Bases Inspection (Teams)	6

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