

# UNITED STATES NUCLEAR REGULATORY COMMISSION

REGION II
245 PEACHTREE CENTER AVENUE N.E., SUITE 1200
ATLANTA, GEORGIA 30303-1200

March 4, 2019

Mr. Daniel G. Stoddard Senior Vice President and Chief Nuclear Officer 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 05000338/2018006 AND

05000339/2018006

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 (Pls), inspection results, and enforcement actions from January 1, 2018, through December 31, 2018. 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, 2020. This updated inspection plan now includes planned security inspections which were formerly transmitted under separate correspondence. 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. You should be aware that the agency has proposed changes regarding engineering inspections (SECY-18-0113, "Recommendations for Modifying the Reactor Oversight Process Engineering Inspections") and is drafting proposed changes to the ROP for Commission consideration. Should the Commission approve changes to the ROP, the engineering and other region-based inspections are subject to change in scope, as well as schedule, beginning in January 2020. 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.

The NRC also plans to conduct the following infrequently performed inspection for Unit 2: Inspection Procedure, 71003, "Post-Approval Site Inspection for License Renewal, Phase I."

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This letter will be made available for public inspection and copying at <a href="http://www.nrc.gov/reading-rm/adams.html">http://www.nrc.gov/reading-rm/adams.html</a> and at the NRC Public Document Room in accordance with 10 CFR 2.390, "Public Inspections, Exemptions, Requests for Withholding."

Please contact me at 404-997-4621 with any questions you have regarding this letter.

Sincerely,

#### /RA/

Lundy F. Pressley, Acting Chief Reactor Projects Branch 4 Division of Reactor Projects

Docket Nos.: 50-338, 50-339 License Nos.: NPF-4, NPF-7

Enclosure:

North Anna Inspection/Activity Plan

cc Distribution via ListServ

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05000339/2018006 March 4, 2019

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#### ADAMS Accession No. ML19063C388

OFFICE	RII:DRP	RII:DRP	RII:DRP	RII:DRP	
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DATE	2/ 26 /2019	2/ 26 /2019	2/ 26 /2019	2/ 26 /2019	

### **OFFICIAL AGENCY RECORD**

# IP 22 Inspection Activity Plan Report

## **North Anna**

03/01/2019 - 12/31/2020

2   03/11/2019   03/15/2019   IP 71003   000687   Post-Approval Site Inspection for License Renewal	Unit	Start	End	Activity	CAC	Title Staff Cou	nt
Variable	SECURITY BA	ASELINE INSPECT	ΙΟΝ				1
2	1, 2	02/25/2019	03/01/2019	IP 71151	001338	Performance Indicator Verification	
2	UNIT 2 POST	T-APPROVAL LR	PHASE 1				2
2   03/11/2019   03/15/2019   IP 71111.08P   000702   Inservice Inspection Activities (PWR)	2	03/11/2019	03/15/2019	IP 71003	000687	Post-Approval Site Inspection for License Renewal	
RP OCCUPATIONAL RAD SAFETY RAD HAZARDS BASELINE INSPECTION           1, 2         03/11/2019         03/15/2019         IP 71124.01         000725         Radiological Hazard Assessment and Exposure Controls           DESIGN BASES ASSURANCE INSPECTION (PROGRAM)           1, 2         05/13/2019         05/17/2019         IP 71111.21N         000714         Design Bases Assurance Inspection (Programs)           1, 2         06/03/2019         06/07/2019         IP 71111.21N         000714         Design Bases Assurance Inspection (Programs)           EMERGENCY PREPAREDNESS PROGRAM INSPECTION           1, 2         06/10/2019         06/14/2019         IP 71114.02         000717         Alert and Notification System Testing           1, 2         06/10/2019         06/14/2019         IP 71114.03         000718         Emergency Response Organization Staffing and Augmentation System           1, 2         06/10/2019         06/14/2019         IP 71114.04         000719         Emergency Action Level and Emergency Plan Changes           1, 2         06/10/2019         06/14/2019         IP 71114.05         000720         Maintenance of Emergency Preparedness           1, 2         08/05/2019         08/09/2019         IP 71124.06         000730         Radioactive Gaseous and Liquid Effluent Treatment           1, 2	UNIT 2 IN-S	ERVICE INSPECTI	ON +SG				
1, 2	2	03/11/2019	03/15/2019	IP 71111.08P	000702	Inservice Inspection Activities (PWR)	
1, 2	RP OCCUPA	TIONAL RAD SAF	ETY RAD HAZA	RDS BASELINE INSPE	CTION		1
1, 2 05/13/2019 05/17/2019 IP 71111.21N 000714 Design Bases Assurance Inspection (Programs) 1, 2 06/03/2019 06/07/2019 IP 71111.21N 000714 Design Bases Assurance Inspection (Programs)  EMERGENCY PREPAREDNESS PROGRAM INSPECTION  1, 2 06/10/2019 06/14/2019 IP 71114.02 000717 Alert and Notification System Testing 1, 2 06/10/2019 06/14/2019 IP 71114.03 000718 Emergency Response Organization Staffing and Augmentation System 1, 2 06/10/2019 06/14/2019 IP 71114.04 000719 Emergency Action Level and Emergency Plan Changes 1, 2 06/10/2019 06/14/2019 IP 71114.05 000720 Maintenance of Emergency Preparedness 1, 2 06/10/2019 06/14/2019 IP 71151 001397 Performance Indicator Verification  RP PUBLIC RAD SAFETY BASELINE INSPECTION  1, 2 08/05/2019 08/09/2019 IP 71124.06 000730 Radioactive Gaseous and Liquid Effluent Treatment 1, 2 08/05/2019 08/09/2019 IP 71124.07 000731 Radiological Environmental Monitoring Program 1, 2 08/05/2019 08/09/2019 IP 71124.08 000732 Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation  SECURITY BASELINE INSPECTION  1, 2 08/05/2019 08/09/2019 IP 71130.04 000736 Equipment Performance, Testing, and Maintenance 1, 2 08/05/2019 08/09/2019 IP 71130.07 000731 Security Training						Radiological Hazard Assessment and Exposure Controls	·
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1, 2         06/10/2019         06/14/2019         IP 71151         001397         Performance Indicator Verification           RP PUBLIC RAD SAFETY BASELINE INSPECTION           1, 2         08/05/2019         08/09/2019         IP 71124.06         000730         Radioactive Gaseous and Liquid Effluent Treatment           1, 2         08/05/2019         08/09/2019         IP 71124.07         000731         Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation           SECURITY BASELINE INSPECTION           1, 2         08/05/2019         08/09/2019         IP 71130.04         000736         Equipment Performance, Testing, and Maintenance           1, 2         08/05/2019         08/09/2019         IP 71130.07         000739         Security Training           UNIT 1 IN-SERVICE INSPECTION +SG	1, 2	06/10/2019	06/14/2019	IP 71114.04	000719	Emergency Action Level and Emergency Plan Changes	
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1, 2       08/05/2019       08/09/2019       IP 71124.06       000730       Radioactive Gaseous and Liquid Effluent Treatment         1, 2       08/05/2019       08/09/2019       IP 71124.07       000731       Radiological Environmental Monitoring Program         1, 2       08/05/2019       08/09/2019       IP 71124.08       000732       Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation         SECURITY BASELINE INSPECTION         1, 2       08/05/2019       08/09/2019       IP 71130.04       000736       Equipment Performance, Testing, and Maintenance         1, 2       08/05/2019       08/09/2019       IP 71130.07       000739       Security Training	1, 2	06/10/2019	06/14/2019	IP 71151	001397	Performance Indicator Verification	
1, 2       08/05/2019       08/09/2019       IP 71124.07       000731       Radiological Environmental Monitoring Program         1, 2       08/05/2019       08/09/2019       IP 71124.08       000732       Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation             SECURITY BASELINE INSPECTION         1, 2       08/05/2019       08/09/2019       IP 71130.04       000736       Equipment Performance, Testing, and Maintenance         1, 2       08/05/2019       08/09/2019       IP 71130.07       000739       Security Training            UNIT 1 IN-SERVICE INSPECTION +SG	RP PUBLIC R	RAD SAFETY BASI	ELINE INSPECTION	ON			3
1, 2       08/05/2019       08/09/2019       IP 71124.07       000731       Radiological Environmental Monitoring Program         1, 2       08/05/2019       08/09/2019       IP 71124.08       000732       Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation             SECURITY BASELINE INSPECTION         1, 2       08/05/2019       08/09/2019       IP 71130.04       000736       Equipment Performance, Testing, and Maintenance         1, 2       08/05/2019       08/09/2019       IP 71130.07       000739       Security Training            UNIT 1 IN-SERVICE INSPECTION +SG	1. 2	08/05/2019	08/09/2019	IP 71124.06	000730	Radioactive Gaseous and Liquid Effluent Treatment	
1, 2       08/05/2019       08/09/2019       IP 71124.08       000732       Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation         SECURITY BASELINE INSPECTION         1, 2       08/05/2019       08/09/2019       IP 71130.04       000736       Equipment Performance, Testing, and Maintenance         1, 2       08/05/2019       08/09/2019       IP 71130.07       000739       Security Training				IP 71124.07	000731		
Transportation   SECURITY BASELINE INSPECTION   2							4
1, 2 08/05/2019 08/09/2019 IP 71130.04 000736 Equipment Performance, Testing, and Maintenance 1, 2 08/05/2019 08/09/2019 IP 71130.07 000739 Security Training  UNIT 1 IN-SERVICE INSPECTION +SG		00,00,00				120	
1, 2 08/05/2019 08/09/2019 IP 71130.07 000739 Security Training  UNIT 1 IN-SERVICE INSPECTION +SG	SECURITY BA	ASELINE INSPECT	ΓΙΟΝ			5	2
1, 2 08/05/2019 08/09/2019 IP 71130.07 000739 Security Training  UNIT 1 IN-SERVICE INSPECTION +SG	1, 2	08/05/2019	08/09/2019	IP 71130.04	000736	Equipment Performance, Testing, and Maintenance	
•				IP 71130.07	000739		
	UNIT 1 IN-S	ERVICE INSPECTI	ON +SG				2
	1	09/16/2019	09/20/2019	IP 71111.08P	000702	Inservice Inspection Activities (PWR)	

## IP 22 Inspection Activity Plan Report

## **North Anna**

03/01/2019 - 12/31/2020

Unit	Start	End	Activity	CAC	Title	Staff Count
PROBLEM IDE	ENTIFICATION A	ND RESOLUTIO	N			4
1, 2	10/14/2019	10/18/2019	IP 71152B	000747	Problem Identification and Resolution	
1, 2	10/28/2019	11/01/2019	IP 71152B	000747	Problem Identification and Resolution	
NORTH ANN	A REQUAL INSP	ECTION				2
1, 2	01/27/2020	01/31/2020	IP 71111.11B	000704	Licensed Operator Requalification Program and Licensed Operat (Biennial)	or Performance
CYBER SECUR	RITY					4
1, 2	04/06/2020	04/10/2020	IP 71130.10P	000741	Cyber Security	
1, 2	04/20/2020	04/24/2020	IP 71130.10P	000741	Cyber Security	
NORTH ANN	A INITIAL LICEN	SE EXAM				4
1, 2	05/04/2020	05/08/2020	OV	000956	VALIDATION OF INITIAL LICENSE EXAMINATION (OV)	
1, 2	06/08/2020	06/19/2020	EXAD	000500	LICENSE EXAM ADMINISTRATION (EXAD)	
SECURITY BA	SELINE INSPECT	ION				3
1, 2	06/08/2020	06/12/2020	IP 71130.05	000737	Protective Strategy Evaluation	
1, 2	06/08/2020	06/12/2020	IP 71151	001338	Performance Indicator Verification	
EVALUATION	S OF CHANGES,	TESTS, AND EX	PERIMENTS			3
1, 2	07/06/2020	07/10/2020	IP 71111.17T	000709	Evaluations of Changes, Tests, and Experiments	
TRIENNIAL H	EAT SINK PERFO	ORMANCE				1
1, 2	07/20/2020	07/24/2020	IP 71111.07T	000700	Heat Sink Performance -Triennial	
UNIT 2 IN-SE	RVICE INSPECTI	ON +SG				. 2
2	09/14/2020	09/18/2020	IP 71111.08P	000702	Inservice Inspection Activities (PWR)	
RP OCCUPAT	IONAL RAD SAF	ETY BASELINE I	NSPECTION - WEEK	1		3
1, 2	09/14/2020	09/19/2020	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
1, 2	09/14/2020	09/19/2020	IP 71124.02	000726	Occupational ALARA Planning and Controls	
1, 2	09/14/2020	09/19/2020	IP 71124.03	000727	In-Plant Airborne Radioactivity Control and Mitigation	
1, 2	09/14/2020	09/19/2020	IP 71124.04	000728	Occupational Dose Assessment	
1, 2	09/14/2020	09/19/2020	IP 71124.05	000729	Radiation Monitoring Instrumentation	

## IP 22 Inspection Activity Plan Report

## **North Anna**

03/01/2019 - 12/31/2020

Unit	Start	End	Activity	CAC	Title	Staff Count	
RP OCCUPATIONAL RAD SAFETY BASELINE INSPECTION – WEEK 2							
1, 2	09/21/2020	09/25/2020	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls		
1, 2	09/21/2020	09/25/2020	IP 71124.02	000726	Occupational ALARA Planning and Controls		
1, 2	09/21/2020	09/25/2020	IP 71124.03	000727	In-Plant Airborne Radioactivity Control and Mitigation		
1, 2	09/21/2020	09/25/2020	1P 71124.04	000728	Occupational Dose Assessment		
1, 2	09/21/2020	09/25/2020	IP 71124.05	000729	Radiation Monitoring Instrumentation		