



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

February 28, 2018

William R. Gideon  
Site Vice President  
Brunswick Steam Electric Plant  
8470 River Rd. SE (M/C BNP001)  
Southport, NC 28461

**SUBJECT:** ANNUAL ASSESSMENT LETTER FOR BRUNSWICK STEAM ELECTRIC PLANT, UNITS 1 AND 2 – NRC INSPECTION REPORTS 05000325/2017006 AND 05000324/2017006, 05000325/2017402 AND 05000324/2017402, 05000325/2017501 AND 05000324/2017501

Dear Mr. Gideon:

The NRC has completed its end-of-cycle performance assessment of Brunswick Steam Electric Plant, Units 1 and 2, reviewing performance indicators (PIs), inspection results, and enforcement actions from January 1, 2017, through December 31, 2017. 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 Brunswick Steam Electric Plant, 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, 2019. 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. 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.

W. Gideon

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

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

Sincerely,

*/RA/*

Steven D. Rose, Chief  
Reactor Projects Branch 4  
Division of Reactor Projects

Docket Nos.: 50-325, 50-324  
License Nos.: DPR-71, DPR-62

Enclosure:  
Brunswick Inspection/Activity Plan

cc Distribution via ListServ

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OFFICE	RII:DRP	RII:DRP	RII:DRP	RII:DRP	
NAME	DJackson	JDodson	WDeschaine	SRose	
DATE	2/23/2018	2/27/2018	2/27/2018	2/26/2018	

**OFFICIAL AGENCY RECORD**

# IP 22 Inspection Activity Plan Report

## Brunswick

03/01/2018 - 12/31/2019

Unit	Start	End	Activity	CAC	Title	Staff Count
<b>RAD HAZARDS AND TRANSPORTATION</b>						2
1, 2	03/05/2018	03/09/2018	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
1, 2	03/05/2018	03/09/2018	IP 71124.08	000732	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	
<b>UNIT 1 IN-SERVICE INSPECTION</b>						1
1	03/12/2018	03/16/2018	IP 71111.08G	000701	Inservice Inspection Activities - BWR	
<b>DESIGN BASES ASSURANCE INSPECTION (PROGRAM)</b>						3
1, 2	04/23/2018	04/27/2018	IP 71111.21N	000714	Design Bases Assurance Inspection (Programs)	
1, 2	05/07/2018	05/11/2018	IP 71111.21N	000714	Design Bases Assurance Inspection (Programs)	
<b>RP PUBLIC INSPECTION</b>						2
1, 2	06/04/2018	06/08/2018	IP 71124.06	000730	Radioactive Gaseous and Liquid Effluent Treatment	
1, 2	06/04/2018	06/08/2018	IP 71124.07	000731	Radiological Environmental Monitoring Program	
1, 2	06/04/2018	06/08/2018	IP 71151	000746	Performance Indicator Verification	
<b>FORCE-ON-FORCE PLANNING &amp; EXERCISE WEEKS</b>						7
1, 2	06/25/2018	06/29/2018	IP 71130.03	000735	Contingency Response - Force-On-Force Testing	
1, 2	07/16/2018	07/20/2018	IP 71130.03	000735	Contingency Response - Force-On-Force Testing	
<b>TRIENNIAL HEAT SINK PERFORMANCE</b>						1
1, 2	07/09/2018	07/13/2018	IP 71111.07T	000700	Heat Sink Performance -Triennial	
<b>EP EXERCISE</b>						5
1, 2	07/30/2018	08/03/2018	IP 71114.01	000716	Exercise Evaluation	
1, 2	07/30/2018	08/03/2018	IP 71114.04	000719	Emergency Action Level and Emergency Plan Changes	
1, 2	07/30/2018	08/03/2018	IP 71151	001397	Performance Indicator Verification	
<b>CYBER SECURITY</b>						2
1, 2	08/06/2018	08/10/2018	IP 71130.10P	000741	Cyber Security	
1, 2	08/20/2018	08/24/2018	IP 71130.10P	000741	Cyber Security	
<b>BRUNSWICK REQUAL INSPECTION</b>						2
1, 2	09/10/2018	09/14/2018	IP 71111.11B	000704	Licensed Operator Requalification Program and Licensed Operator Performance - Biennial	

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

# IP 22 Inspection Activity Plan Report

<b>BRUNSWICK INITIAL LICENSE EXAM</b>						5
1, 2	10/22/2018	10/26/2018	OV	000956	VALIDATION OF INITIAL LICENSE EXAMINATION (OV)	
1, 2	11/26/2018	12/07/2018	EXAD	000500	LICENSE EXAM ADMINISTRATION (EXAD)	
<b>DUKE CORP AA/FFD/SGI SECURITY INSPECTION</b>						2
1, 2	11/05/2018	11/09/2018	IP 71130.01	000733	Access Authorization	
1, 2	11/05/2018	11/09/2018	IP 71130.06	000738	Protection of Safeguards Information	
1, 2	11/05/2018	11/09/2018	IP 71130.08	000740	Fitness For Duty Program	
<b>SECURITY BASELINE INSPECTION</b>						2
1, 2	11/26/2018	11/30/2018	IP 71130.01	000733	Access Authorization	
1, 2	11/26/2018	11/30/2018	IP 71130.02	000734	Access Control	
1, 2	11/26/2018	11/30/2018	IP 71130.06	000738	Protection of Safeguards Information	
1, 2	11/26/2018	11/30/2018	IP 71130.08	000740	Fitness For Duty Program	
1, 2	11/26/2018	11/30/2018	IP 71151	001338	Performance Indicator Verification	
<b>UNIT 2 IN-SERVICE INSPECTION</b>						1
2	03/11/2019	03/15/2019	IP 71111.08G	000701	Inservice Inspection Activities - BWR	
<b>RP OCCUPATIONAL WEEK 1</b>						2
1, 2	03/11/2019	03/15/2019	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
1, 2	03/11/2019	03/15/2019	IP 71124.02	000726	Occupational ALARA Planning and Controls	
1, 2	03/11/2019	03/15/2019	IP 71124.03	000727	In-Plant Airborne Radioactivity Control and Mitigation	
1, 2	03/11/2019	03/15/2019	IP 71124.04	000729	Occupational Dose Assessment	
1, 2	03/11/2019	03/15/2019	IP 71124.05	000729	Radiation Monitoring Instrumentation	
1, 2	03/11/2019	03/15/2019	IP 71151	000746	Performance Indicator Verification	
<b>RP OCCUPATIONAL WEEK 2</b>						3
1, 2	04/01/2019	04/05/2019	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
1, 2	04/01/2019	04/05/2019	IP 71124.02	000726	Occupational ALARA Planning and Controls	
1, 2	04/01/2019	04/05/2019	IP 71124.03	000727	In-Plant Airborne Radioactivity Control and Mitigation	
1, 2	04/01/2019	04/05/2019	IP 71124.04	000729	Occupational Dose Assessment	
1, 2	04/01/2019	04/05/2019	IP 71124.05	000729	Radiation Monitoring Instrumentation	
1, 2	04/01/2019	04/05/2019	IP 71151	000746	Performance Indicator Verification	
<b>SECURITY BASELINE INSPECTION</b>						2
1, 2	04/15/2019	04/19/2019	IP 71130.04	000736	Equipment Performance, Testing, and Maintenance	
1, 2	04/15/2019	04/19/2019	IP 71130.07	000739	Security Training	
<b>PROBLEM IDENTIFICATION AND RESOLUTION</b>						5
1, 2	05/06/2019	05/10/2019	IP 71152B	000747	Problem Identification and Resolution	
1, 2	05/20/2019	05/24/2019	IP 71152B	000747	Problem Identification and Resolution	

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# IP 22 Inspection Activity Plan Report

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**DESIGN BASES ASSURANCE INSPECTION (TEAM)**

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1, 2	07/29/2019	08/02/2019	IP 71111.21M	000713	Design Bases Assurance Inspection (Teams)
1, 2	08/19/2019	08/23/2019	IP 71111.21M	000713	Design Bases Assurance Inspection (Teams)

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**SECURITY BASELINE INSPECTION**

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1, 2	10/21/2019	10/25/2019	IP 71130.02	000734	Access Control
1, 2	10/21/2019	10/25/2019	IP 71130.05	000737	Protective Strategy Evaluation

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