



**UNITED STATES
NUCLEAR REGULATORY COMMISSION**
REGION II
245 PEACHTREE CENTER AVENUE N.E., SUITE 1200
ATLANTA, GEORGIA 30303-1200

March 4, 2019

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 REPORT 05000325/2018006
AND 05000324/2018006**

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, 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 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, 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 will conduct Temporary Instruction (TI) 2515/194, "Inspection of the Licensee's Implementation of Industry Initiative Associated With the Open Phase Condition Design Vulnerabilities In Electric Power Systems (NRC Bulletin 2012-01)," during the week of October 7, 2019.

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 404-997-4621 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.: 50-325, 50-324
License Nos.: DPR-71, DPR-62

Enclosure: Brunswick Inspection/Activity Plan

cc Distribution via ListServ

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UNITS 1 AND 2 – NRC INSPECTION REPORT 05000325/2018006 AND
05000324/2018006 March 4, 2019

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OFFICE	RII:DRP	RII:DRP	RII: DRP	RII: DRP		
NAME	DJackson	JDodson	PNiebaum	LPressley		
DATE	2/26/2019	2/26/2019	2/26/2019	2/26/2019		

OFFICIAL AGENCY RECORD

IP 22 Inspection Activity Plan Report

Brunswick

03/01/2019 - 12/31/2020

Unit	Start	End	Activity	CAC	Title	Staff Count
RP OCCUPATIONAL RAD SAFETY BASELINE INSPECTION - WEEK 1						2
1, 2	03/04/2019	03/08/2019	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
1, 2	03/04/2019	03/08/2019	IP 71124.02	000726	Occupational ALARA Planning and Controls	
1, 2	03/04/2019	03/08/2019	IP 71124.03	000727	In-Plant Airborne Radioactivity Control and Mitigation	
1, 2	03/04/2019	03/08/2019	IP 71124.04	000728	Occupational Dose Assessment	
1, 2	03/04/2019	03/08/2019	IP 71124.05	000729	Radiation Monitoring Instrumentation	
UNIT 2 IN-SERVICE INSPECTION						1
2	03/11/2019	03/15/2019	IP 71111.08G	000701	Inservice Inspection Activities (BWR)	
RP OCCUPATIONAL RAD SAFETY BASELINE INSPECTION - WEEK 2						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	000728	Occupational Dose Assessment	
1, 2	04/01/2019	04/05/2019	IP 71124.05	000729	Radiation Monitoring Instrumentation	
SECURITY BASELINE INSPECTION						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	
PROBLEM IDENTIFICATION AND RESOLUTION						4
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	
EMERGENCY PREPAREDNESS PROGRAM INSPECTION						2
1, 2	07/08/2019	07/12/2019	IP 71114.02	000717	Alert and Notification System Testing	
1, 2	07/08/2019	07/12/2019	IP 71114.03	000718	Emergency Response Organization Staffing and Augmentation System	
1, 2	07/08/2019	07/12/2019	IP 71114.04	000719	Emergency Action Level and Emergency Plan Changes	
1, 2	07/08/2019	07/12/2019	IP 71114.05	000720	Maintenance of Emergency Preparedness	
1, 2	07/08/2019	07/12/2019	IP 71151	001397	Performance Indicator Verification	
DESIGN BASES ASSURANCE INSPECTION (TEAM)						6
1, 2	08/19/2019	08/23/2019	IP 71111.21M	000713	Design Bases Assurance Inspection (Teams)	
1, 2	09/09/2019	09/13/2019	IP 71111.21M	000713	Design Bases Assurance Inspection (Teams)	

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

Brunswick

03/01/2019 - 12/31/2020

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TI-194 OPEN PHASE CONDITION						1
1, 2	10/07/2019	10/11/2019	TI 2515/194	000512	Inspection of the Licensee's Implementation of Industry Initiative Associated With the Open Phase Condition Design Vulnerabilities In Electric Power Systems (NRC Bulletin 2012-01)	
SECURITY BASELINE INSPECTION						3
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	
1, 2	10/21/2019	10/25/2019	IP 71151	001338	Performance Indicator Verification	
NFPA 805 TRIENNIAL FIRE PROTECTION INSPECTION						4
1, 2	02/03/2020	02/07/2020	IP 71111.05XT	000697	Fire Protection - NFPA 805 (Triennial)	
1, 2	02/24/2020	02/28/2020	IP 71111.05XT	000697	Fire Protection - NFPA 805 (Triennial)	
UNIT 1 IN-SERVICE INSPECTION						1
1	03/02/2020	03/06/2020	IP 71111.08G	000701	Inservice Inspection Activities (BWR)	
RP OCCUPATIONAL RAD SAFETY RAD HAZARDS & TRANSPORTATION BASELINE INSPECTION						2
1, 2	03/02/2020	03/06/2020	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
1, 2	03/02/2020	03/06/2020	IP 71124.08	000732	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	
EVALUATIONS OF CHANGES, TESTS, AND EXPERIMENTS						3
1, 2	05/18/2020	05/22/2020	IP 71111.17T	000709	Evaluations of Changes, Tests, and Experiments	
RP PUBLIC RAD SAFETY BASELINE INSPECTION						2
1, 2	06/15/2020	06/19/2020	IP 71124.06	000730	Radioactive Gaseous and Liquid Effluent Treatment	
1, 2	06/15/2020	06/19/2020	IP 71124.07	000731	Radiological Environmental Monitoring Program	
BRUNSWICK REQUAL INSPECTION						2
1, 2	09/14/2020	09/18/2020	IP 71111.11B	000704	Licensed Operator Requalification Program and Licensed Operator Performance (Biennial)	
SECURITY BASELINE INSPECTION						1
1, 2	10/05/2020	10/09/2020	IP 71130.02	000734	Access Control	
1, 2	10/05/2020	10/09/2020	IP 71151	001338	Performance Indicator Verification	

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Brunswick

03/01/2019 - 12/31/2020

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BRUNSWICK INITIAL LICENSE EXAM						4
1, 2	11/02/2020	11/06/2020	OV	000956	VALIDATION OF INITIAL LICENSE EXAMINATION (OV)	
1, 2	12/07/2020	12/18/2020	EXAD	000500	LICENSE EXAM ADMINISTRATION (EXAD)	