



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

March 3, 2020

Mr. John A. Krakuszeski
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 05000325/2019006
AND 05000324/2019006

Dear Mr. Krakuszeski:

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, 2019, through December 31, 2019. 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, 2021. 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. You should be aware that the agency is pursuing potential changes to the ROP, including changes to engineering inspections described in SECY-18-0113, "Recommendations for Modifying the Reactor Oversight Process Engineering Inspections," and other changes to the baseline inspection program described in SECY-19-0067, "Recommendations for Enhancing the Reactor Oversight Process." Should these changes to the ROP be implemented, the engineering and other region-based inspections are subject to change in scope, as well as schedule. 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 plans to conduct an inspection using Temporary Instruction (TI) 2515/193, "Inspection of the Implementation of EA-13-109: Order Modifying Licenses with Regard to Reliable Hardened Containment Vents Capable of Operation under Severe Accident Conditions." This is currently scheduled in December 2020. Additionally, during this period the NRC will schedule

an inspection per a revised version Temporary Instruction (TI) 2515/194, "Inspection of the Licensee's Implementation of Industry Initiative Associated with the Open Phase Condition Design Vulnerability in Electrical Power Systems (NRC Bulletin 2012-01)" for any sites who elect to implement the guidance of the Industry Initiative on Open Phase Condition, Revision 3 (ML19163A176), which included an option for relying on annunciation and operator manual actions instead of automatic protective features to isolate a power supply affected by an open phase condition. Licensees will be individually notified when the NRC schedules these inspections.

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 Stewart Bailey of my staff at 404-997-4580 with any questions you have regarding this letter.

Sincerely,

/RA/

Mark Miller, Director
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

SUBJECT: ANNUAL ASSESSMENT LETTER FOR BRUNSWICK STEAM ELECTRIC PLANT,
UNITS 1 AND 2 – NRC INSPECTION REPORTS 05000325/2019006 AND
05000324/2019006 March 3, 2020

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OFFICE	RII:DRP	RII:DRP	RII: DRP	RII: DRP		
NAME	M.Toth	P.Niebaum	M. Miller			
DATE	02/27/2020	02/24/2020	03/02/2020			

OFFICIAL AGENCY RECORD

IP 22 Inspection Activity Plan Report

Brunswick

03/01/2020 - 12/31/2021

Unit	Start	End	Activity	CAC	Title	Staff Count
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	
1, 2	03/02/2020	03/06/2020	IP 71151	000746	Performance Indicator Verification	
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	
1, 2	06/15/2020	06/19/2020	IP 71151	000746	Performance Indicator Verification	
EMERGENCY PREPAREDNESS EXERCISE						5
1, 2	07/27/2020	07/31/2020	IP 71114.01	000716	Exercise Evaluation	
1, 2	07/27/2020	07/31/2020	IP 71114.04	000719	Emergency Action Level and Emergency Plan Changes	
1, 2	07/27/2020	07/31/2020	IP 71114.08	000723	Exercise Evaluation □ Scenario Review	
1, 2	07/27/2020	07/31/2020	IP 71151	001397	Performance Indicator Verification	
TARGET SET INSPECTION						1
1, 2	08/31/2020	09/04/2020	IP 71130.14	000743	Review of Power Reactor Target Sets	
BRUNSWICK REQUAL INSPECTION						2
1, 2	09/14/2020	09/18/2020	IP 71111.11B	000704	Licensed Operator Requalification Program and Licensed Operator Performance	
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 71130.09	001656	Security Plan Changes	
1, 2	10/05/2020	10/09/2020	IP 71151	001338	Performance Indicator Verification	
MATERIAL CONTROL & ACCOUNTING						1
1, 2	10/26/2020	10/30/2020	IP 71130.11	000742	Material Control and Accounting (MC&A)	

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

Enclosure

IP 22 Inspection Activity Plan Report

Brunswick

03/01/2020 - 12/31/2021

Unit	Start	End	Activity	CAC	Title	Staff Count
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)	
RELIABLE HARDENED CONTAINMENT VENT TI-193						2
1, 2	12/07/2020	12/10/2020	TI 2515/193	000511	Inspection of the Implementation of EA-13-109: Order Modifying Licenses with Regard to Reliable Hardened Containment Vents Capable of Operation under Severe Accident Conditions	
UNIT 2 IN-SERVICE INSPECTION						1
2	03/01/2021	03/05/2021	IP 71111.08G	000701	Inservice Inspection Activities (BWR)	
RP OCCUPATIONAL RAD SAFETY BASELINE INSPECTION						3
1, 2	03/01/2021	03/05/2021	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
1, 2	03/01/2021	03/05/2021	IP 71124.02	000726	Occupational ALARA Planning and Controls	
1, 2	03/01/2021	03/05/2021	IP 71124.03	000727	In-Plant Airborne Radioactivity Control and Mitigation	
1, 2	03/01/2021	03/05/2021	IP 71124.04	000728	Occupational Dose Assessment	
1, 2	03/01/2021	03/05/2021	IP 71124.05	000729	Radiation Monitoring Instrumentation	
1, 2	03/01/2021	03/05/2021	IP 71151	000746	Performance Indicator Verification	
1, 2	03/29/2021	04/02/2021	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
1, 2	03/29/2021	04/02/2021	IP 71124.02	000726	Occupational ALARA Planning and Controls	
1, 2	03/29/2021	04/02/2021	IP 71124.03	000727	In-Plant Airborne Radioactivity Control and Mitigation	
1, 2	03/29/2021	04/02/2021	IP 71124.04	000728	Occupational Dose Assessment	
1, 2	03/29/2021	04/02/2021	IP 71124.05	000729	Radiation Monitoring Instrumentation	
1, 2	03/29/2021	04/02/2021	IP 71151	000746	Performance Indicator Verification	
SECURITY BASELINE INSPECTION						2
1, 2	04/05/2021	04/09/2021	IP 71130.04	000736	Equipment Performance, Testing, and Maintenance	
1, 2	04/05/2021	04/09/2021	IP 71130.07	000739	Security Training	
DESIGN BASES ASSURANCE INSPECTION (PROGRAMS)						4
1, 2	04/12/2021	04/16/2021	IP 71111.21N	000714	Design Bases Assurance Inspection (Programs)	
1, 2	04/26/2021	04/30/2021	IP 71111.21N	000714	Design Bases Assurance Inspection (Programs)	
FORCE-ON-FORCE PLANNING AND EXERCISE WEEKS - BRU						6
1, 2	05/24/2021	05/28/2021	IP 71130.03	000735	Contingency Response - Force-On-Force Testing	

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IP 22 Inspection Activity Plan Report

Brunswick

03/01/2020 - 12/31/2021

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FORCE-ON-FORCE PLANNING AND EXERCISE WEEKS - BRU						6
1, 2	06/14/2021	06/18/2021	IP 71130.03	000735	Contingency Response - Force-On-Force Testing	
EMERGENCY PREPAREDNESS PROGRAM INSPECTION						2
1, 2	05/30/2021	06/12/2021	IP 71114.02	000717	Alert and Notification System Testing	
1, 2	05/30/2021	06/12/2021	IP 71114.03	000718	Emergency Response Organization Staffing and Augmentation System	
1, 2	05/30/2021	06/12/2021	IP 71114.04	000719	Emergency Action Level and Emergency Plan Changes	
1, 2	05/30/2021	06/12/2021	IP 71114.05	000720	Maintenance of Emergency Preparedness	
1, 2	05/30/2021	06/12/2021	IP 71151	001397	Performance Indicator Verification	
PROBLEM IDENTIFICATION & RESOLUTION						4
1, 2	07/11/2021	07/26/2021	IP 71152B	000747	Problem Identification and Resolution	
1, 2	07/26/2021	07/30/2021	IP 71152B	000747	Problem Identification and Resolution	
TRIENNIAL HEAT SINK PERFORMANCE						1
1, 2	08/02/2021	08/06/2021	IP 71111.07T	000700	Heat Sink Performance	
SECURITY BASELINE INSPECTION						1
1, 2	09/13/2021	09/17/2021	IP 71130.02	000734	Access Control	
1, 2	09/13/2021	09/17/2021	IP 71130.09	001656	Security Plan Changes	
1, 2	09/13/2021	09/17/2021	IP 71151	001338	Performance Indicator Verification	