



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
REGION III  
2443 WARRENVILLE ROAD, SUITE 210  
LISLE, ILLINOIS 60532-4352

August 22, 2022

Mr. David Rhoades  
Senior Vice President  
Constellation Energy Generation, LLC  
President and Chief Nuclear Officer (CNO)  
Constellation Nuclear  
4300 Winfield Road  
Warrenville, IL 60555

SUBJECT: UPDATED INSPECTION PLAN FOR BRAIDWOOD STATION UNITS 1 AND 2  
(Report 05000456/2022005; 05000457/2022005)

Dear Mr. Rhoades:

The enclosed inspection plan lists the inspections scheduled through June 30, 2024, for Braidwood Station. 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 12 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.

Beginning on January 1, 2023, the engineering inspection frequency will transition from a triennial (3-year) to a quadrennial (4-year) cycle. The new engineering inspection program will consist of a "Comprehensive Engineering Team Inspection (CETI)"<sup>1</sup> and three "Focused Engineering Inspections (FEIs)" that will be performed in each quadrennial cycle. For the cycle beginning in 2023, the FEIs will be: "Fire Protection Team Inspection," "Commercial Grade Dedication," and an engineering inspection that reviews age-related degradation and management<sup>2</sup>.

In response to the COVID-19 public health emergency (PHE), the NRC adjusted inspection plans and schedules in order to safeguard the health and safety of both NRC and licensee staff while still effectively implementing the ROP. While the PHE continues, overall conditions throughout the country support performance of our inspection and oversight activities to return

---

<sup>1</sup> Aspects of the Design Basis Assurance Inspection (DBAI), Evaluations of Changes, Tests, & Experiments, and Heat Sink inspections will be included in the CETI inspection. Attached Report 22 will reference DBAI procedure until the CETI procedure is made publicly available. Previously scheduled Evaluation of Changes, Tests, & Experiments and Heat Sink inspections have been cancelled and removed from attached Report 22.

<sup>2</sup> The age-related degradation and management procedure is under development and will be publicly available by the end of calendar year 2022.

to normal onsite presence by our resident and region-based inspectors and completion of nominal baseline inspection samples. We continue to monitor site-specific conditions and as discussed in our November 2, 2021 memo, "Implementation of Inspection Programs Following Re-Entry from the Public Health Emergency for the Reactor Safety Program" (ML21295A302), it may be necessary to alter how and when we perform our inspection and oversight activities as we balance the importance of protecting the health and safety of our staff with the need to conduct effective oversight that supports the NRC's critical safety mission.

For inspections requiring extensive coordination with offsite organizations, such as evaluated emergency preparedness exercises, NRC guidance and frequently asked questions for security and emergency preparedness can be found here: <https://www.nrc.gov/about-nrc/covid-19/security-ep/>. Similarly, the NRC has developed guidance if force-on-force inspections cannot be completed as scheduled due to an emergency, such as the COVID-19 PHE. These changes help ensure the health and safety of both NRC and licensee staff while maintaining the NRC's important safety and security mission during the COVID-19 PHE. The attached inspection plan is accurate on the date of issuance but remains subject to change based on approval of potential exemption requests or other changes needed due to changing conditions in the COVID-19 PHE. NRC staff will contact your appropriate regulatory affairs staff in order to coordinate inspection planning and scheduling.

Additionally, during this period the NRC will schedule an additional 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 me at 630-829-9834 with any questions you have regarding this letter.

Sincerely,



Signed by Orlikowski, Robert  
on 08/22/22

Robert Orlikowski, Acting Chief  
Branch 3  
Division of Reactor Projects

Docket Nos. 05000456 and 05000457  
License Nos. NPF-72 and NPF-77

Enclosure:  
Inspection Plan

Distribution via LISTSERV®

Letter to David Rhoades from Robert Orlikowski dated August 22, 2022.

SUBJECT: UPDATED INSPECTION PLAN FOR BRAIDWOOD STATION UNITS 1 AND 2  
(Report 05000456/2022005; 05000457/2022005)

DISTRIBUTION:

Jessie Quichocho  
Lou McKown  
RidsNrrDorlLp13  
RidsNrrPMBraidwood Resource  
RidsNrrDrolrib Resource  
John Giessner  
Mohammed Shuaibi  
Diana Betancourt-Roldan  
Allan Barker  
DRPIII  
DRSIII  
[ROPAssessment.Resource@nrc.gov](mailto:ROPAssessment.Resource@nrc.gov)

ADAMS Accession Number: ML22234A161

Publicly Available     Non-Publicly Available     Sensitive     Non-Sensitive

OFFICE	RIII	RIII			
NAME	NShah:sw	ROrlikowski			
DATE	8/22/2022	8/22/2022			

**OFFICIAL RECORD COPY**

# Site Inspection Activity Plan

## Braidwood

07/01/2022 - 06/30/2024

Unit	Start	End	Activity	CAC	Title	Staff Count
<b>Force-on-Force Planning and Exercises</b>						6
1,2	8/1/2022	8/5/2022	IP 71130.03	000735	Contingency Response - Force-On-Force Testing	
1,2	8/22/2022	8/26/2022	IP 71130.03	000735	Contingency Response - Force-On-Force Testing	
<b>Radiation Protection Baseline Inspection</b>						1
1,2	8/15/2022	8/19/2022	IP 71124.08	000732	Radioactive Solid Waste Processing & Radioactive Material Handling, Storage, & Transportation	
<b>Inservice Inspection Unit 1</b>						1
1	10/3/2022	10/21/2022	IP 71111.08P	000702	Inservice Inspection Activities (PWR)	
<b>Radiation Protection Baseline Inspection</b>						1
1,2	10/3/2022	10/7/2022	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
<b>Corporate Security Baseline Inspection</b>						3
1,2	1/23/2023	1/27/2023	IP 71130.08	000740	Fitness For Duty Program	
<b>Security Baseline Inspection</b>						1
1,2	2/13/2023	2/17/2023	IP 71130.02	000734	Access Control	
1,2	2/13/2023	2/17/2023	IP 71130.08	000740	Fitness For Duty Program	
1,2	3/6/2023	3/10/2023	IP 71130.07	000739	Security Training	
1,2	3/6/2023	3/10/2023	IP 71130.09	001656	Security Plan Changes	
1,2	3/6/2023	3/10/2023	IP 71151	001338	Performance Indicator Verification	
<b>Emergency Preparedness Baseline Inspection / Performance Indicator Verification</b>						1
1,2	2/20/2023	2/24/2023	IP 71114.02	000717	Alert and Notification System Testing	
1,2	2/20/2023	2/24/2023	IP 71114.03	000718	Emergency Response Organization Staffing and Augmentation System	
1,2	2/20/2023	2/24/2023	IP 71114.05	000720	Maintenance of Emergency Preparedness	
1,2	2/20/2023	2/24/2023	IP 71151	001397	Performance Indicator Verification	
<b>Radiation Protection Baseline Inspection</b>						1
1,2	4/17/2023	4/21/2023	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
<b>Inservice Inspection Unit 2</b>						1
2	4/24/2023	5/12/2023	IP 71111.08P	000702	Inservice Inspection Activities (PWR)	
<b>Security Baseline Inspection</b>						2
1,2	5/8/2023	5/12/2023	IP 71130.05	000737	Protective Strategy Evaluation	
<b>Functional Engineering Inspection - Commercial Grade Dedication</b>						3
1,2	8/14/2023	9/1/2023	IP 71111.21N.03	001808	Commercial Grade Dedication	
<b>Biennial Requalification Program Inspection</b>						2
1,2	8/21/2023	8/25/2023	IP 71111.11B	000704	Licensed Operator Requalification Program and Licensed Operator Performance	

# Site Inspection Activity Plan

<b>Radiation Protection Baseline Inspection</b>						1
1,2	9/18/2023	9/22/2023	IP 71124.06	000730	Radioactive Gaseous and Liquid Effluent Treatment	
<b>Corporate Security Baseline Inspection</b>						3
1,2	1/22/2024	1/26/2024	IP 71130.01	000733	Access Authorization	
<b>Cyber Security Inspection</b>						3
1,2	1/29/2024	2/2/2024	IP 71130.10	000741	Cybersecurity	
<b>Braidwood March 2024 Initial License Exam</b>						5
1,2	2/11/2024	2/17/2024	OV	000956	FB-OR-ONSITE VALIDATION OF INITIAL LICENSE EXAMINATION (OV)	
1,2	3/17/2024	3/23/2024	EXAD	000500	FB-OR-INITIAL LICENSE EXAM ADMINISTRATION (EXAD)	
1,2	3/24/2024	3/30/2024	EXAD	000500	FB-OR-INITIAL LICENSE EXAM ADMINISTRATION (EXAD)	
<b>License Renewal Phase 1</b>						1
1	4/15/2024	5/3/2024	IP 71003	000687	Post-Approval Site Inspection for License Renewal	
<b>Inservice Inspection Unit 1</b>						1
1	4/15/2024	5/3/2024	IP 71111.08P	000702	Inservice Inspection Activities (PWR)	
<b>Radiation Protection Baseline Inspection</b>						1
1,2	4/22/2024	4/26/2024	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
1,2	4/22/2024	4/26/2024	IP 71124.03	000727	In-Plant Airborne Radioactivity Control and Mitigation	
<b>Security Baseline Inspection</b>						1
1,2	5/13/2024	5/17/2024	IP 71130.14	000743	Review of Power Reactor Target Sets	
<b>Radiation Protection Baseline Inspection</b>						1
1,2	6/3/2024	6/7/2024	IP 71124.03	000727	In-Plant Airborne Radioactivity Control and Mitigation	
1,2	6/3/2024	6/7/2024	IP 71124.04	000728	Occupational Dose Assessment	
<b>Biennial Problem Identification and Resolution Inspection</b>						4
1,2	6/3/2024	6/21/2024	IP 71152B	000747	Problem Identification and Resolution	