



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

August 24, 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 BYRON STATION UNITS 1 AND 2
(Report 05000454/2022005; 05000455/2022005)

Dear Mr. Rhoades:

The enclosed inspection plan lists the inspections scheduled through June 30, 2024, for Byron 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)"¹ 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 management².

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 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),

¹ 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.

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

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 08/24/22

Robert J. Orlikowski, Chief
Branch 3
Division of Reactor Projects

Docket Nos. 05000454 and 05000455
License Nos. NPF-37 and NPF-66

Enclosure:
Inspection Plan

cc: Distribution via LISTSERV®

Letter to David Rhoades from Robert J. Orlikowski dated August 24, 2022.

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(Report 05000454/2022005; 05000455/2022005)

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DATE	08/24/2022	08/24/2022		

OFFICIAL RECORD COPY

Site Inspection Activity Plan

07200068 - Byron (ISFSI)

07/01/2022 - 06/30/2024

Unit	Start	End	Activity	CAC	Title	Staff Count
ISFSI Cask Loading Inspection						2
	4/1/2024	4/5/2024	IP 60855	001001	Operation Of An ISFSI	

Site Inspection Activity Plan

Byron

07/01/2022 - 06/30/2024

Unit	Start	End	Activity	CAC	Title	Staff Count
FORCE-ON-FORCE PLANNING AND EXERCISE WEEKS - BYR						6
1,2	7/11/2022	7/15/2022	IP 71130.03	000735	Contingency Response - Force-On-Force Testing	
Biennial Requalification Program Inspection						2
1,2	10/16/2022	10/22/2022	IP 71111.11B	000704	Licensed Operator Requalification Program and Licensed Operator Performance	
Emergency Preparedness Baseline Inspection / Performance Indicator Verification						1
1,2	10/17/2022	10/21/2022	IP 71114.02	000717	Alert and Notification System Testing	
1,2	10/17/2022	10/21/2022	IP 71114.03	000718	Emergency Response Organization Staffing and Augmentation System	
1,2	10/17/2022	10/21/2022	IP 71114.05	000720	Maintenance of Emergency Preparedness	
1,2	10/17/2022	10/21/2022	IP 71151	001397	Performance Indicator Verification	
Radiation Protection Baseline Inspection						1
1	10/24/2022	10/28/2022	IP 71124.05	000729	Radiation Monitoring Instrumentation	
Byron December 2022 Initial License Exam						3
1,2	11/13/2022	11/19/2022	OV	000956	FB-OR-ONSITE VALIDATION OF INITIAL LICENSE EXAMINATION (OV)	
1,2	12/11/2022	12/17/2022	EXAD	000500	FB-OR-INITIAL LICENSE EXAM ADMINISTRATION (EXAD)	
1,2	12/18/2022	12/23/2022	EXAD	000500	FB-OR-INITIAL LICENSE EXAM ADMINISTRATION (EXAD)	
Cyber Security Inspection						4
1,2	11/14/2022	11/18/2022	IP 71130.10	000741	Cybersecurity	
Corporate Security Baseline Inspection						3
1,2	1/23/2023	1/27/2023	IP 71130.08	000740	Fitness For Duty Program	
Security Baseline Inspection						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	3/13/2023	3/17/2023	IP 71130.07	000739	Security Training	
1,2	3/13/2023	3/17/2023	IP 71130.09	001656	Security Plan Changes	
1,2	3/13/2023	3/17/2023	IP 71151	001338	Performance Indicator Verification	
License Renewal Phase 1 Unit 1						2
1	3/6/2023	3/24/2023	IP 71003	000687	Post-Approval Site Inspection for License Renewal	
Inservice Inspection Unit 1						1
1	3/6/2023	3/24/2023	IP 71111.08P	000702	Inservice Inspection Activities (PWR)	
Radiation Protection Baseline Inspection						1
1,2	3/13/2023	3/17/2023	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
1,2	3/13/2023	3/17/2023	IP 71124.03	000727	In-Plant Airborne Radioactivity Control and Mitigation	

Site Inspection Activity Plan

Security Baseline Inspection						1
1,2	5/22/2023	5/26/2023	IP 71130.05	000737	Protective Strategy Evaluation	
Radiation Protection Baseline Inspection						1
1,2	7/10/2023	7/14/2023	IP 71124.08	000732	Radioactive Solid Waste Processing & Radioactive Material Handling, Storage, & Transportation	
Emergency Preparedness Exercise / Performance Indicator Verification						4
1,2	7/24/2023	7/28/2023	IP 71114.07	000722	Exercise Evaluation - Hostile Action (HA) Event	
1,2	7/24/2023	7/28/2023	IP 71151	001397	Performance Indicator Verification	
Biennial Problem Identification and Resolution Inspection						4
1,2	8/21/2023	9/8/2023	IP 71152B	000747	Problem Identification and Resolution	
Byron October 2023 Initial License Exam						3
1,2	9/10/2023	9/16/2023	OV	000956	FB-OR-ONSITE VALIDATION OF INITIAL LICENSE EXAMINATION (OV)	
1,2	10/15/2023	10/21/2023	EXAD	000500	FB-OR-INITIAL LICENSE EXAM ADMINISTRATION (EXAD)	
1,2	10/22/2023	10/27/2023	EXAD	000500	FB-OR-INITIAL LICENSE EXAM ADMINISTRATION (EXAD)	
Inservice Inspection Unit 2						1
2	10/9/2023	10/27/2023	IP 71111.08P	000702	Inservice Inspection Activities (PWR)	
Radiation Protection Baseline Inspection						1
1,2	10/16/2023	10/20/2023	IP 71124.03	000727	In-Plant Airborne Radioactivity Control and Mitigation	
1,2	10/16/2023	10/20/2023	IP 71124.04	000728	Occupational Dose Assessment	
Functional Engineering Inspection - Fire Protection						3
1,2	11/27/2023	12/15/2023	IP 71111.21N.05	001646	Fire Protection Team Inspection (FPTI)	
Comprehensive Engineering Team Inspection						7
1,2	1/22/2024	2/9/2024	IP 71111.21M	000713	Design Bases Assurance Inspection (Teams)	
Corporate Security Baseline Inspection						3
1,2	1/22/2024	1/26/2024	IP 71130.01	000733	Access Authorization	
Cyber Security Inspection						3
1,2	2/26/2024	3/1/2024	IP 71130.10	000741	Cybersecurity	
Security Baseline Inspection						1
1,2	3/25/2024	3/29/2024	IP 71130.01	000733	Access Authorization	
1,2	3/25/2024	3/29/2024	IP 71130.02	000734	Access Control	
1,2	3/25/2024	3/29/2024	IP 71130.09	001656	Security Plan Changes	
1,2	3/25/2024	3/29/2024	IP 71151	001338	Performance Indicator Verification	
1,2	4/22/2024	4/26/2024	IP 71130.04	000736	Equipment Performance, Testing, and Maintenance	
Security Baseline Inspection						1
1,2	5/13/2024	5/17/2024	IP 71130.14	000743	Review of Power Reactor Target Sets	
License Renewal Phase 2 Unit 1						5

Site Inspection Activity Plan

1 6/10/2024 6/28/2024 IP 71003 000687 Post-Approval Site Inspection for License Renewal
