



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

August 28, 2024

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 AND ASSESSMENT FOLLOW-UP LETTER
FOR BYRON STATION, UNITS 1 AND 2 (REPORT 05000455/2024005 AND
05000454/2024005)

Dear David Rhodes:

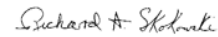
The enclosed inspection plan lists the inspections scheduled through June 30, 2026, for Byron Station, Units 1 and 2. The NRC provides the inspection plan to allow for the resolution of any scheduling conflicts and personnel availability issues. Routine inspections performed by resident inspectors are 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.

Between January 18 and February 14, 2025, the NRC will be performing a Functional Engineering Inspection in the area of Commercial Grade Dedication at your facility. The NRC will also be performing a Problem Identification and Resolution Inspection between September 15 and October 3, 2025, at your facility.

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 Website at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

Please contact me at 630-829-9833 with any questions you have regarding this letter.

Sincerely,



Signed by Skokowski, Richard
on 08/28/24

Richard Skokowski, Chief
Reactor Projects Branch 3
Division of Operating Reactor Safety

Docket Nos. 05000454, 05000455,
and 07200068
License Nos. NPF-37 and NPF-66

Enclosure:
Inspection Plan

cc: Distribution via LISTSERV®

Letter to David Rhoades from Richard Skokowski dated August 28, 2024.

SUBJECT: UPDATED INSPECTION PLAN AND ASSESSMENT FOLLOW-UP LETTER FOR BYRON STATION, UNITS 1 AND 2 (REPORT 05000455/2024005 AND 05000454/2024005)

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OFFICE	RIII	RIII			
NAME	RElliott:anm	RSkokowski			
DATE	08/28/2024	08/28/2024			

OFFICIAL RECORD COPY

Site Inspection Activity Plan

Byron

07/01/2024 - 06/30/2026

Unit	Start	End	Activity	CAC	Title	Staff Count
Inservice Inspection Unit 1						1
1	9/9/2024	9/27/2024	IP 71111.08P	000702	Inservice Inspection Activities (PWR)	
Radiation Protection Baseline Inspection						1
1,2	9/16/2024	9/20/2024	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
1,2	9/16/2024	9/20/2024	IP 71124.03	000727	In-Plant Airborne Radioactivity Control and Mitigation	
Emergency Preparedness Baseline Inspection / Performance Indicator Verification						1
1,2	10/21/2024	10/25/2024	IP 71114.02	000717	Alert and Notification System Testing	
1,2	10/21/2024	10/25/2024	IP 71114.03	000718	Emergency Response Organization Staffing and Augmentation System	
1,2	10/21/2024	10/25/2024	IP 71114.05	000720	Maintenance of Emergency Preparedness	
1,2	10/21/2024	10/25/2024	IP 71151	001397	Performance Indicator Verification	
Security Baseline Inspection						2
1,2	8/26/2024	8/30/2024	IP 71130.14	000743	Review of Power Reactor Target Sets	
1,2	10/28/2024	11/1/2024	IP 71130.04	000736	Equipment Performance, Testing, and Maintenance	
1,2	10/28/2024	11/1/2024	IP 71130.09	001656	Security Plan Changes	
Eplan and EAL Changes Review						1
1,2	11/1/2024	12/31/2024	IP 71114.04	000719	Emergency Action Level and Emergency Plan Changes	
Byron Biennial Requalification Program Inspection						2
1,2	11/17/2024	11/23/2024	IP 71111.11B	000704	Licensed Operator Requalification Program and Licensed Operator Performance	
Functional Engineering Inspection - Commercial Grade Dedication						3
1,2	1/27/2025	2/14/2025	IP 71111.21N.03	001808	Commercial Grade Dedication	
Byron February 2025 Initial License Examination						4
1,2	1/12/2025	1/18/2025	OV	000956	FB-OR-Onsite Validation Of Initial License Examination (OV)	
1,2	2/9/2025	2/15/2025	EXAD	000500	FB-OR-Initial License Exam Administration (EXAD)	
Security Baseline Inspection						1
1,2	2/10/2025	2/14/2025	IP 71130.02	000734	Access Control	
1,2	2/10/2025	2/14/2025	IP 71151	001338	Performance Indicator Verification	
1,2	3/17/2025	3/21/2025	IP 71130.07	000739	Security Training	
1,2	3/17/2025	3/21/2025	IP 71130.09	001656	Security Plan Changes	
Radiation Protection Baseline Inspection						1
1,2	3/24/2025	3/28/2025	IP 71124.03	000727	In-Plant Airborne Radioactivity Control and Mitigation	
1,2	3/24/2025	3/28/2025	IP 71124.04	000728	Occupational Dose Assessment	
1,2	3/24/2025	3/28/2025	IP 71124.05	000729	Radiation Monitoring Instrumentation	

Site Inspection Activity Plan

License Renewal Unit 2 Phase 1						1
2	4/14/2025	5/2/2025	IP 71003	000687	Post-Approval Site Inspection for License Renewal	
Inservice Inspection Unit 2						1
2	4/14/2025	5/2/2025	IP 71111.08P	000702	Inservice Inspection Activities (PWR)	
Radiation Protection Baseline Inspection						1
1,2	4/21/2025	4/25/2025	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
1,2	4/21/2025	4/25/2025	IP 71124.03	000727	In-Plant Airborne Radioactivity Control and Mitigation	
Material Control and Accountability Triennial Inspection						1
1,2	7/28/2025	9/1/2025	IP 71130.11	000742	Material Control and Accounting (MC&A)	
Force-on-Force Planning and Exercise Weeks - BYR						5
1,2	7/21/2025	7/25/2025	IP 71130.03	000735	Contingency Response - Force-On-Force Testing	
1,2	8/11/2025	8/15/2025	IP 71130.03	000735	Contingency Response - Force-On-Force Testing	
Radiation Protection Baseline Inspection						1
1,2	9/8/2025	9/12/2025	IP 71124.06	000730	Radioactive Gaseous and Liquid Effluent Treatment	
1,2	9/8/2025	9/12/2025	IP 71124.07	000731	Radiological Environmental Monitoring Program	
1,2	9/8/2025	9/12/2025	IP 71151	000746	Performance Indicator Verification	
Biennial Problem Identification and Resolution Inspection						4
1,2	9/15/2025	10/3/2025	IP 71152B	000747	Problem Identification and Resolution	
Emergency Preparedness Exercise Inspection / Performance Indicator Review						4
1,2	10/20/2025	10/24/2025	IP 71114.01	000716	Exercise Evaluation	
1,2	10/20/2025	10/24/2025	IP 71151	001397	Performance Indicator Verification	
Eplan and EAL Changes Review						1
1,2	11/1/2025	12/31/2025	IP 71114.04	000719	Emergency Action Level and Emergency Plan Changes	
Corporate Security Baseline Inspection						1
1,2	1/19/2026	1/23/2026	IP 71130.08	000740	Fitness-For-Duty Program	
Cyber Security						4
1,2	2/2/2026	2/6/2026	IP 71130.10	000741	Cybersecurity	
Security Baseline Inspection						1
1,2	2/9/2026	2/13/2026	IP 71130.08	000740	Fitness-For-Duty Program	
Inservice Inspection - Unit 1						1
1	3/2/2026	3/20/2026	IP 71111.08P	000702	Inservice Inspection Activities (PWR)	
Radiation Protection Baseline Inspection						1
1,2	3/9/2026	3/13/2026	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
Emergency Preparedness Baseline Inspection / Performance Indicator Verification						1
1,2	3/16/2026	3/20/2026	IP 71114.02	000717	Alert and Notification System Testing	

Site Inspection Activity Plan

1,2	3/16/2026	3/20/2026	IP 71114.03	000718	Emergency Response Organization Staffing and Augmentation System
1,2	3/16/2026	3/20/2026	IP 71114.05	000720	Maintenance of Emergency Preparedness
1,2	3/16/2026	3/20/2026	IP 71151	001397	Performance Indicator Verification

Radiation Protection Baseline Inspection

1

1,2	5/4/2026	5/8/2026	IP 71124.08	000732	Radioactive Solid Waste Processing & Radioactive Material Handling, Storage, & Transportation
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License Renewal Post Approval Phase 2 - Unit 2

5

1,2	5/18/2026	6/5/2026	IP 71003	000687	Post-Approval Site Inspection for License Renewal
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Security Baseline Inspection

1

1,2	6/8/2026	6/12/2026	IP 71130.04	000736	Equipment Performance, Testing, and Maintenance
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