



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

September 1, 2021

Mr. David Rhoades  
Senior VP, Exelon Generation Company, LLC  
President and CNO, Exelon Nuclear  
4300 Winfield Road  
Warrenville, IL 60555

SUBJECT: UPDATED INSPECTION PLAN FOR BYRON STATION UNITS 1 AND 2  
(05000454/2021005 AND 05000455/2021005)

Dear Mr. David Rhoades:

The enclosed inspection plan lists the inspections scheduled through June 30, 2023, 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 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.

Inspection procedure (IP) 71111.21N.03 is included in the inspection plan as a placeholder for your next Design Basis Assurance Inspection (Programs). The NRC is still determining the specific technical area to replace the previously performed power-operated valves programs inspection, IP 71111.21N.02. Once the inspection area has been determined, an inspection procedure will be issued publicly at least six months prior to the start of this inspection.

In response to the COVID-19 public health emergency (PHE), the NRC is adjusting inspection plans and schedules in order to safeguard the health and safety of both NRC and licensee staff while still effectively implementing the ROP. Each planned inspection is being carefully reviewed in order to determine if any portions of the inspection can be performed remotely, determine how best to perform on-site portions to minimize personnel health risks, and adjust inspection schedules if needed. This is done in accordance with guidance contained in the February 1, 2021 memo, "Calendar Year 2021 Inspection Guidance During COVID-19 Telework Restrictions" (ML21027A274). 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.

The NRC will also be performing baseline inspections of licensee cyber security programs. The specific schedule and procedure to be used for these inspections is being developed by the NRC staff. The staff expects to communicate the schedule for these inspections to each utility separately.

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 Hironori Peterson at 630-829-9707 with any questions you have regarding this letter.

Sincerely,

*/RA/*

Hironori Peterson, Chief  
Branch 3  
Division of Reactor Projects

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

Enclosure:  
Inspection Plan

Distribution via LISTSERV®

Letter to David Rhoades from Hironori Peterson dated September 1, 2021.

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(05000454/2021005 AND 05000455/2021005)

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# IP 22b Site Inspection Activity Plan

## Byron

07/01/2021 - 06/30/2023

Unit	Start	End	Activity	CAC	Title	Staff Count
<b>Security Baseline Inspection</b>						2
1, 2	8/16/2021	8/20/2021	IP 71130.05	000737	Protective Strategy Evaluation	
1, 2	11/1/2021	11/5/2021	IP 71130.04	000736	Equipment Performance, Testing, and Maintenance	
1, 2	11/1/2021	11/5/2021	IP 71130.07	000739	Security Training	
<b>Byron September 2021 Initial Exam</b>						3
1	8/29/2021	9/4/2021	OV	000956	FB-OR-ONSITE VALIDATION OF INITIAL LICENSE EXAMINATION (OV)	
1	9/26/2021	10/2/2021	EXAD	000500	FB-OR-INITIAL LICENSE EXAM ADMINISTRATION (EXAD)	
1	10/3/2021	10/9/2021	EXAD	000500	FB-OR-INITIAL LICENSE EXAM ADMINISTRATION (EXAD)	
<b>Inservice Inspection Byron Unit 1</b>						1
1	9/6/2021	10/10/2021	IP 71111.08P	000702	Inservice Inspection Activities (PWR)	
<b>Radiation Protection Baseline Inspection</b>						1
1, 2	9/13/2021	9/18/2021	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
1, 2	9/13/2021	9/18/2021	IP 71124.02	000726	Occupational ALARA Planning and Controls	
1, 2	9/13/2021	9/18/2021	IP 71124.03	000727	In-Plant Airborne Radioactivity Control and Mitigation	
1, 2	9/13/2021	9/18/2021	IP 71124.08	000732	Radioactive Solid Waste Processing & Radioactive Material Handling, Storage, & Transportation	
<b>Security Baseline Inspection</b>						1
1, 2	10/1/2021	12/31/2021	IP 71130.09	001656	Security Plan Changes	
<b>Security Baseline Inspection</b>						1
1, 2	11/1/2021	11/5/2021	IP 71130.04	000736	Equipment Performance, Testing, and Maintenance	
1, 2	11/1/2021	11/5/2021	IP 71130.07	000739	Security Training	
<b>Problem Identification and Resolution Inspection</b>						4
1, 2	11/15/2021	12/3/2021	IP 71152B	000747	Problem Identification and Resolution	
<b>Radiation Protection Baseline Inspection</b>						1
1, 2	12/13/2021	12/17/2021	IP 71124.06	000730	Radioactive Gaseous and Liquid Effluent Treatment	
<b>Security Baseline Inspection</b>						1
1, 2	2/7/2022	2/11/2022	IP 71130.02	000734	Access Control	
1, 2	2/7/2022	2/11/2022	IP 71130.14	000743	Review of Power Reactor Target Sets	
1, 2	2/7/2022	2/11/2022	IP 71151	001338	Performance Indicator Verification	
1, 2	3/7/2022	3/11/2022	IP 71130.04	000736	Equipment Performance, Testing, and Maintenance	
1, 2	10/3/2022	12/31/2022	IP 71130.09	001656	Security Plan Changes	
<b>Inservice Inspection Byron Unit 2</b>						1
2	4/18/2022	5/6/2022	IP 71111.08P	000702	Inservice Inspection Activities (PWR)	

# IP 22b Site Inspection Activity Plan

<b>Radiation Protection Baseline</b>						1
1, 2	4/25/2022	4/29/2022	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
1, 2	4/25/2022	4/29/2022	IP 71124.02	000726	Occupational ALARA Planning and Controls	
1, 2	4/25/2022	4/29/2022	IP 71124.03	000727	In-Plant Airborne Radioactivity Control and Mitigation	
<b>Triennial Heat Sink</b>						1
1, 2	6/13/2022	6/17/2022	IP 71111.07T	000700	Heat Sink Performance	
<b>RP Baseline Inspection</b>						1
1	6/20/2022	6/24/2022	IP 71124.07	000731	Radiological Environmental Monitoring Program	
<b>FORCE-ON-FORCE PLANNING AND EXERCISE WEEKS - BYR</b>						6
1, 2	6/20/2022	6/24/2022	IP 71130.03	000735	Contingency Response - Force-On-Force Testing	
1, 2	7/11/2022	7/15/2022	IP 71130.03	000735	Contingency Response - Force-On-Force Testing	
<b>RP Baseline Inspection</b>						1
1	10/24/2022	10/28/2022	IP 71124.05	000729	Radiation Monitoring Instrumentation	
<b>Byron December 2022 Initial License Exam</b>						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)	
<b>Cyber Security Inspection</b>						4
1, 2	11/14/2022	11/18/2022	IP 71130.10P	000741	Cyber Security	
<b>Design Basis Assurance Inspection - Program</b>						3
1, 2	11/28/2022	12/16/2022	IP 71111.21N.02	001645	Design-Basis Capability of Power-Operated Valves Under 10 CFR 50.55a Requirements	
<b>Byron 2022 Biennial Licensed Operator Requalification Program Inspection</b>						2
1, 2	12/4/2022	12/10/2022	IP 71111.11B	000704	Licensed Operator Requalification Program and Licensed Operator Performance	
<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	3/13/2023	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	
<b>Unit 1 Inservice Inspection</b>						1
1	3/6/2023	3/24/2023	IP 71111.08P	000702	Inservice Inspection Activities (PWR)	
<b>Radiation Protection Baseline Inspection</b>						1
1, 2	3/13/2023	3/17/2023	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	

# IP 22b Site Inspection Activity Plan

1, 2	3/13/2023	3/17/2023	IP 71124.02	000726	Occupational ALARA Planning and Controls
1, 2	3/13/2023	3/17/2023	IP 71124.03	000727	In-Plant Airborne Radioactivity Control and Mitigation

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