



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

August 28, 2019

Mr. Bryan C. Hanson
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
(REPORT 05000454/2019005; 05000455/2019005)

Dear Mr. Hanson:

The enclosed inspection plan lists the inspections scheduled through June 30, 2021, for the 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. You should be aware that the agency is pursuing potential changes to the ROP, including changes to engineering inspections (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, beginning in January 2020. 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.

As part of the baseline inspection program, the NRC will be performing Inspection Procedure 7111.21, "Design Bases Assurance Inspection," from March 22 - April 9, 2021.

This letter, its enclosure, and your response (if any) will be made available for public inspection and copying at <http://www.nrc.gov/reading-rm/adams.html> and at the NRC Public Document Room in accordance with 10 CFR 2.390, "Public Inspections, Exemptions, Requests for Withholding."

Please contact me 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. 50-454; 50-455
License Nos. NPF-37; NPF-66

Enclosure:
Inspection Plan

cc: Distribution via LISTSERV®

Letter to Bryan Hanson from Hironori Peterson dated August 28, 2019

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(REPORT 05000454/2019005; 05000455/2019005)

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|--------|--------------|--|--|--|--|--|--|
| OFFICE | RIII | | | | | | |
| NAME | HPeterson:bw | | | | | | |
| DATE | 8/27/2019 | | | | | | |

OFFICIAL RECORD COPY

IP 22 Inspection Activity Plan Report

Byron

09/01/2019 - 06/30/2021

| Unit | Start | End | Activity | CAC | Title | Staff Count |
|--|------------|------------|--------------|--------|--|-------------|
| Design Bases Assurance Inspection (Programs) | | | | | | 3 |
| 1, 2 | 08/26/2019 | 09/13/2019 | IP 71111.21N | 000714 | Design Bases Assurance Inspection (Programs) | |
| Force-on-Force Planning and Exercises | | | | | | 6 |
| 1, 2 | 09/09/2019 | 09/13/2019 | IP 71130.03 | 000735 | Contingency Response - Force-On-Force Testing | |
| 1, 2 | 09/30/2019 | 10/04/2019 | IP 71130.03 | 000735 | Contingency Response - Force-On-Force Testing | |
| Radiation Protection Baseline | | | | | | 1 |
| 1, 2 | 09/16/2019 | 09/20/2019 | IP 71124.02 | 000726 | Occupational ALARA Planning and Controls | |
| 2019 NRC Developed Exam Byron | | | | | | 4 |
| 1, 2 | 09/29/2019 | 10/05/2019 | OV | 000956 | VALIDATION OF INITIAL LICENSE EXAMINATION (OV) | |
| 1, 2 | 10/27/2019 | 11/09/2019 | EXAD | 000500 | LICENSE EXAM ADMINISTRATION (EXAD) | |
| 1, 2 | 12/22/2019 | 03/14/2020 | DOC | 000474 | (DOC) | |
| Emergency Preparedness Exercise Inspection / Performance Indicator Verification | | | | | | 4 |
| 1, 2 | 10/28/2019 | 11/01/2019 | IP 71114.01 | 000716 | Exercise Evaluation | |
| 1, 2 | 10/28/2019 | 11/01/2019 | IP 71114.08 | 000723 | Exercise Evaluation □ Scenario Review | |
| 1, 2 | 10/28/2019 | 11/01/2019 | IP 71151 | 001397 | Performance Indicator Verification | |
| Corporate Security Baseline Inspection | | | | | | 4 |
| 1, 2 | 01/14/2020 | 01/16/2020 | IP 71130.08 | 000740 | Fitness For Duty Program | |
| Radiation Protection Baseline Inspection | | | | | | 1 |
| 1, 2 | 02/03/2020 | 02/07/2020 | IP 71124.05 | 000729 | Radiation Monitoring Instrumentation | |
| Security Baseline Inspection | | | | | | 1 |
| 1, 2 | 03/02/2020 | 03/06/2020 | IP 71130.08 | 000740 | Fitness For Duty Program | |
| Inservice inspection Byron Unit 1 | | | | | | 1 |
| 1 | 03/09/2020 | 03/27/2020 | IP 71111.08P | 000702 | Inservice Inspection Activities (PWR) | |
| Radiation Protection Baseline Inspection | | | | | | 1 |
| 1, 2 | 03/16/2020 | 03/20/2020 | IP 71124.01 | 000725 | Radiological Hazard Assessment and Exposure Controls | |
| Security Baseline Inspection | | | | | | 1 |
| 1, 2 | 04/27/2020 | 05/01/2020 | IP 71130.04 | 000736 | Equipment Performance, Testing, and Maintenance | |

This report does not include INPO and OUTAGE activities.

This report shows only on-site and announced inspection procedures.

IP 22 Inspection Activity Plan Report

Byron

09/01/2019 - 06/30/2021

| Unit | Start | End | Activity | CAC | Title | Staff Count |
|--|------------|------------|-----------------|--------|---|-------------|
| Security Baseline Inspection | | | | | | 1 |
| 1, 2 | 04/27/2020 | 05/01/2020 | IP 71151 | 001338 | Performance Indicator Verification | |
| 1, 2 | 05/18/2020 | 05/22/2020 | IP 71130.05 | 000737 | Protective Strategy Evaluation | |
| Radiation Protection Baseline Inspection | | | | | | 1 |
| 1, 2 | 07/13/2020 | 07/17/2020 | IP 71124.08 | 000732 | Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation | |
| Evaluations of Changes, Tests, and Experiments Inspection | | | | | | 3 |
| 1, 2 | 08/31/2020 | 09/04/2020 | IP 71111.17T | 000709 | Evaluations of Changes, Tests, and Experiments | |
| Radiation Protection Baseline Inspection | | | | | | 1 |
| 1, 2 | 10/12/2020 | 10/16/2020 | IP 71124.02 | 000726 | Occupational ALARA Planning and Controls | |
| Byron Biennial Licensed Operator Requalification Program Inspection | | | | | | 2 |
| 1, 2 | 11/16/2020 | 11/20/2020 | IP 71111.11B | 000704 | Licensed Operator Requalification Program and Licensed Operator Performance | |
| Radiation Protection Baseline Inspection | | | | | | 1 |
| 1, 2 | 11/30/2020 | 12/04/2020 | IP 71124.03 | 000727 | In-Plant Airborne Radioactivity Control and Mitigation | |
| 1, 2 | 11/30/2020 | 12/04/2020 | IP 71124.04 | 000728 | Occupational Dose Assessment | |
| Corporate Security Baseline Inspection | | | | | | 3 |
| 1, 2 | 01/05/2021 | 01/07/2021 | IP 71130.01 | 000733 | Access Authorization | |
| Triennial Fire Protection Inspection | | | | | | 3 |
| 1, 2 | 01/11/2021 | 01/29/2021 | IP 71111.21N.05 | | Fire Protection Team Inspection (FPTI) | |
| Security Baseline Inspection | | | | | | 1 |
| 1, 2 | 01/11/2021 | 01/15/2021 | IP 71130.14 | 000743 | Review of Power Reactor Target Sets | |
| 1, 2 | 02/22/2021 | 02/26/2021 | IP 71130.01 | 000733 | Access Authorization | |
| 1, 2 | 02/22/2021 | 02/26/2021 | IP 71130.02 | 000734 | Access Control | |
| 1, 2 | 02/22/2021 | 02/26/2021 | IP 71151 | 001338 | Performance Indicator Verification | |
| 1, 2 | 04/05/2021 | 04/09/2021 | IP 71130.07 | 000739 | Security Training | |
| ISFSI Cask Loading Inspection 1Q2021 | | | | | | 2 |
| 1, 2 | 03/08/2021 | 03/12/2021 | IP 60855.1 | 000590 | Operation of an Independent Spent Fuel Storage Installation at Operating Plants | |

IP 22 Inspection Activity Plan Report

Byron

09/01/2019 - 06/30/2021

| Unit | Start | End | Activity | CAC | Title | Staff Count |
|---|------------|------------|--------------|--------|---|-------------|
| Design Basis Assurance Inspection (Team) | | | | | | 6 |
| 1, 2 | 03/22/2021 | 04/09/2021 | IP 71111.21M | 000713 | Design Bases Assurance Inspection (Teams) | |