



UNITED STATES
NUCLEAR REGULATORY COMMISSION

REGION III
2443 WARRENVILLE ROAD, SUITE 210
LISLE, ILLINOIS 60532-4352

August 28, 2018

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

SUBJECT: MID-CYCLE ASSESSMENT LETTER FOR CLINTON POWER STATION, UNIT 1
(REPORT 05000461/2018005)

Dear Mr. Hanson:

The enclosed inspection plan lists the inspections scheduled through June 30, 2020, for Clinton Power 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.

In addition to the baseline inspection provided in the attached plan, Inspection Procedure 60855.1, "Operation of an ISFSI Independent Spent Fuel Storage Installation at Operating Plants," is planned for the week of October 1, 2018. As discussed in our July 11, 2018, Assessment Followup Letter, Clinton Power Station remained in the Regulatory Response Column (Column 2) of the NRC's Action Matrix based on a White Finding/Violation associated with the Division 3 shutdown service water (SX) pump. The NRC plans to conduct a supplemental inspection using Inspection Procedure 95001 to assess the effectiveness of your corrective actions taken to address this White Finding. The supplemental inspection is scheduled to begin on September 17, 2018.

In the 2017 End-of Cycle Assessment letter dated March 2, 2018, the NRC identified a cross-cutting theme in the Human Performance cross-cutting area. Specifically, there were 22 findings which had a cross-cutting aspect in this area. In the last 12 months there have been 16 findings which had a cross-cutting aspect in human performance. As a result, Clinton Power Station no longer meets the cross-cutting theme criteria. However, we encourage you to continue with your efforts to further improve human performance.

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 630-829-9731 with any questions you have regarding this letter.

Sincerely,

/RA/

Karla Stoedter, Chief
Branch 1
Division of Reactor Projects

Docket No. 50-461
License No. NPF-62

Enclosure:
Inspection Report 05000461/2018005
Inspection Plan

cc: Distribution via LISTSERV®

Letter to Bryan C. Hanson from Karla Stoedter dated August 28, 2018

SUBJECT: MID-CYCLE ASSESSMENT LETTER FOR CLINTON POWER STATION, UNIT 1
(REPORT 05000461/2018005)

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|--------|--------------|--|--|--|--|--|--|
| OFFICE | RIII | | | | | | |
| NAME | KStoedter:lg | | | | | | |
| DATE | 8/28/2018 | | | | | | |

OFFICIAL RECORD COPY

IP 22 Inspection Activity Plan Report

Clinton

09/01/2018 - 06/30/2020

| Unit | Start | End | Activity | CAC | Title | Staff Count |
|--|------------|------------|--------------|--------|---|-------------|
| INITIAL LICENSE EXAM AUG 2018 | | | | | | 4 |
| 1 | 08/26/2018 | 09/08/2018 | EXAD | 000500 | LICENSE EXAM ADMINISTRATION (EXAD) | |
| 95001 Division 3 Service Water Pump Failure | | | | | | 2 |
| 1 | 09/17/2018 | 09/21/2018 | IP 95001 | 000938 | Supplemental Inspection for One or Two White Inputs in a Strategic Performance Area | |
| ISFSI Cask Loading Inspection 4Q2018 | | | | | | 2 |
| 1 | 10/01/2018 | 10/05/2018 | IP 60855.1 | 000590 | Operation of an Independent Spent Fuel Storage Installation at Operating Plants | |
| EP BASELINE INSPECTION / PI VERIFICATION | | | | | | 1 |
| 1 | 10/22/2018 | 10/26/2018 | IP 71114.03 | 000718 | Emergency Response Organization Staffing and Augmentation System | |
| 1 | 10/22/2018 | 10/26/2018 | IP 71114.05 | 000720 | Correction of Emergency Preparedness Weaknesses and Deficiencies | |
| 1 | 10/22/2018 | 10/26/2018 | IP 71151 | 001397 | Performance Indicator Verification | |
| 1 | 11/05/2018 | 11/09/2018 | IP 71114.02 | 000717 | Alert and Notification System Testing | |
| DBA PROGRAM | | | | | | 3 |
| 1 | 10/29/2018 | 11/16/2018 | IP 71111.21N | 000714 | Design Bases Assurance Inspection (Programs) | |
| RADIATION PROTECTION BASELINE INSPECTION | | | | | | 1 |
| 1 | 11/26/2018 | 11/30/2018 | IP 71124.08 | 000732 | Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation | |
| SECURITY BASELINE INSPECTION | | | | | | 1 |
| 1 | 02/19/2019 | 02/22/2019 | IP 71130.14 | 000743 | Review of Power Reactor Target Sets | |
| DBA TEAM | | | | | | 6 |
| 1 | 03/11/2019 | 03/29/2019 | IP 71111.21M | 000713 | Design Bases Assurance Inspection (Teams) | |
| RP Baseline | | | | | | 1 |
| 1 | 03/11/2019 | 03/15/2019 | IP 71124.02 | 000726 | Occupational ALARA Planning and Controls | |
| EP EXERCISE INSPECTION / PI VERIFICATION | | | | | | 2 |
| 1 | 03/18/2019 | 03/22/2019 | IP 71114.01 | 000716 | Exercise Evaluation | |
| 1 | 03/18/2019 | 03/22/2019 | IP 71151 | 001397 | Performance Indicator Verification | |
| SECURITY BASELINE INSPECTION | | | | | | 1 |
| 1 | 03/18/2019 | 03/22/2019 | IP 71130.02 | 000734 | Access Control | |

This report does not include INPO and OUTAGE activities.
This report shows only on-site and announced inspection procedures.

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Clinton

09/01/2018 - 06/30/2020

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|---|------------|------------|--------------|--------|--|-------------|
| BIENNIAL PI&R INSPECTION | | | | | | 4 |
| 1 | 05/06/2019 | 05/24/2019 | IP 71152B | 000747 | Problem Identification and Resolution | |
| CYBER SECURITY INSPECTION | | | | | | 5 |
| 1 | 08/05/2019 | 08/23/2019 | IP 71130.10P | 000741 | Cyber Security | |
| 2019 Clinton Exam | | | | | | 3 |
| 1 | 08/12/2019 | 08/16/2019 | OV | 000956 | VALIDATION OF INITIAL LICENSE EXAMINATION (OV) | |
| 1 | 09/09/2019 | 09/20/2019 | EXAD | 000500 | LICENSE EXAM ADMINISTRATION (EXAD) | |
| RP Baseline | | | | | | 2 |
| 1 | 08/26/2019 | 08/30/2019 | IP 71124.06 | 000730 | Radioactive Gaseous and Liquid Effluent Treatment | |
| 1 | 08/26/2019 | 08/30/2019 | IP 71124.07 | 000731 | Radiological Environmental Monitoring Program | |
| SECURITY BASELINE INSPECTION | | | | | | 1 |
| 1 | 09/09/2019 | 09/13/2019 | IP 71130.07 | 000739 | Security Training | |
| 1 | 09/09/2019 | 09/13/2019 | IP 71151 | 001338 | Performance Indicator Verification | |
| INSERVICE INSPECTION UNIT 1 | | | | | | 1 |
| 1 | 09/16/2019 | 10/06/2019 | IP 71111.08G | 000701 | Inservice Inspection Activities (BWR) | |
| RP Baseline | | | | | | 2 |
| 1 | 09/23/2019 | 09/27/2019 | IP 71124.01 | 000725 | Radiological Hazard Assessment and Exposure Controls | |
| 1 | 09/23/2019 | 09/27/2019 | IP 71124.02 | 000726 | Occupational ALARA Planning and Controls | |
| 1 | 09/23/2019 | 09/27/2019 | IP 71124.03 | 000727 | In-Plant Airborne Radioactivity Control and Mitigation | |
| 1 | 09/23/2019 | 09/27/2019 | IP 71124.04 | 000729 | Occupational Dose Assessment | |
| CORPORATE SECURITY BASELINE INSPECTION | | | | | | 4 |
| 1 | 01/14/2020 | 01/16/2020 | IP 71130.08 | 000740 | Fitness For Duty Program | |
| SECURITY BASELINE INSPECTION | | | | | | 1 |
| 1 | 02/10/2020 | 02/14/2020 | IP 71130.02 | 000734 | Access Control | |
| 1 | 02/10/2020 | 02/14/2020 | IP 71130.08 | 000740 | Fitness For Duty Program | |
| RP Baseline Inspection | | | | | | 1 |
| 1 | 03/02/2020 | 03/06/2020 | IP 71124.01 | 000725 | Radiological Hazard Assessment and Exposure Controls | |
| 1 | 03/02/2020 | 03/06/2020 | IP 71124.03 | 000727 | In-Plant Airborne Radioactivity Control and Mitigation | |

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09/01/2018 - 06/30/2020

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|---|------------|------------|--------------|--------|---|-------------|
| FORCE-ON-FORCE PLANNING AND EXERCISE WEEKS | | | | | | 7 |
| 1 | 03/23/2020 | 03/27/2020 | IP 71130.03 | 000735 | Contingency Response - Force-On-Force Testing | |
| 1 | 04/13/2020 | 04/17/2020 | IP 71130.03 | 000735 | Contingency Response - Force-On-Force Testing | |
| TRIENNIAL HEAT SINK INSPECTION | | | | | | 2 |
| 1 | 04/06/2020 | 04/10/2020 | IP 71111.07T | 000700 | Heat Sink Performance -Triennial | |
| RP Baseline Inspection | | | | | | 1 |
| 1 | 05/04/2020 | 05/08/2020 | IP 71124.07 | 000731 | Radiological Environmental Monitoring Program | |