



**UNITED STATES
NUCLEAR REGULATORY COMMISSION**

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

March 2, 2018

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

SUBJECT: ANNUAL ASSESSMENT LETTER FOR CLINTON POWER STATION, UNIT 1
(REPORT 05000461/2017006)

Dear Mr. Hanson:

The NRC has completed its end-of-cycle performance assessment of Clinton Power Station, Unit 1, reviewing performance indicators (PIs), inspection results and enforcement actions from January 1, 2017, through December 31, 2017. This letter informs you of the NRC's assessment of your facility during this period and its plans for future inspections at your facility. The NRC concluded that overall performance at your facility preserved public health and safety.

The NRC determined the performance at Clinton Power Station, Unit 1, during the most recent quarter was within the Regulatory Response Column (Column 2) of the NRC's Reactor Oversight Process (ROP) Action Matrix. This conclusion was based on two inspection findings having low-to-moderate safety significance (i.e., White) in the Mitigating Systems Cornerstone and all PIs within the expected range (i.e., Green). Therefore, in addition to ROP baseline inspections, the NRC plans to conduct supplemental inspection(s) in accordance with Inspection Procedure 95001, "Supplemental Inspection Response to Action Matrix Column 2 Inputs."

The objectives of the supplemental inspection are to assure that the root causes and contributing causes of the significant performance issue are understood; to assure that the extent of condition and extent of cause of the performance issue are identified; to assure that corrective actions taken to address and preclude repetition of the significant performance issue are prompt and effective; and to assure that corrective plans direct prompt actions to effectively address and preclude repetition of the significant performance issue. The inspections will be scheduled after you notify the NRC of your readiness.

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 addition, there were 5 findings which had a cross-cutting aspect of work management, one less than being a cross-cutting theme itself. The NRC will continue to monitor your staff's effort and progress in addressing the theme until the theme criterion is no longer met.

The enclosed inspection plan lists the inspections scheduled through December 31, 2019. This updated inspection plan now includes planned security inspections which were formerly transmitted under separate correspondence. 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 baseline inspection, the NRC inspection schedule includes an infrequently performed inspection in accordance with Inspection Procedure 60855.1, "Operation of an Independent Spent Fuel Storage Installation at Operating Plants." The NRC also plans to perform Inspection Procedure 92702, "Followup on Traditional Enforcement Actions including Violations, Deviations, Confirmatory Action Letters, Confirmatory Orders, and Alternative Dispute Resolution Confirmatory orders" to review your corrective actions related to Notice of Violation 2017002-02, "Failure to Perform Adequate Evaluation of Crane Rail Clips."

This letter and its enclosure 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 Karla Stoedter at 630-829-9731 with any questions you may have regarding this letter or the inspection plan.

Sincerely,

/RA/

Patrick L. Loudon, Director
Division of Reactor Projects

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

Enclosure: Inspection Plan

cc: Distribution via LISTSERV®

Letter to Bryan C. Hanson from Patrick L. Louden dated March 2, 2018

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(REPORT 05000461/2017006)

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IP 22 Inspection Activity Plan Report

Clinton

03/01/2018 - 12/31/2019

Unit	Start	End	Activity	CAC	Title	Staff Count
SECURITY BASELINE INSPECTION						1
1	04/09/2018	04/13/2018	IP 71130.04	000736	Equipment Performance, Testing, and Maintenance	
1	04/09/2018	04/13/2018	IP 71151	001338	Performance Indicator Verification	
INSERVICE INSPECTION UNIT 1						1
1	04/30/2018	05/04/2018	IP 71111.08G	000701	Inservice Inspection Activities - BWR	
RADIATION PROTECTION BASELINE INSPECTION						1
1	04/30/2018	05/11/2018	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
1	04/30/2018	05/11/2018	IP 71124.05	000729	Radiation Monitoring Instrumentation	
CORRECTIVE ACTIONS FOR NOV 2017002-02						1
1	06/25/2018	06/29/2018	IP 92702	000238	Followup On Corrective Actions For Violations And Deviations	
TRIENNIAL 50.59 INSPECTION						3
1	07/30/2018	08/03/2018	IP 71111.17T	000709	Evaluations of Changes, Tests, and Experiments	
SECURITY BASELINE INSPECTION						1
1	07/30/2018	08/03/2018	IP 71130.05	000737	Protective Strategy Evaluation	
INITIAL PREP AUG/SEPT 2018						3
1	08/06/2018	08/10/2018	OV	000956	VALIDATION OF INITIAL LICENSE EXAMINATION (OV)	
INITIAL EXAM AUG/SEPT 2018						3
1	08/27/2018	09/07/2018	EXAD	000500	LICENSE EXAM ADMINISTRATION (EXAD)	
ISFSI Cask Loading Inspection						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)	

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

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Clinton

03/01/2018 - 12/31/2019

Unit	Start	End	Activity	CAC	Title	Staff Count
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	
1	11/26/2018	11/30/2018	IP 71151	000746	Performance Indicator Verification	
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 71114.06	000721	Drill Evaluation	
1	03/18/2019	03/22/2019	IP 71151	001397	Performance Indicator Verification	
SECURITY BASELINE INSPECTION						1
1	04/01/2019	04/05/2019	IP 71130.02	000734	Access Control	
1	04/01/2019	04/05/2019	IP 71130.06	000738	Protection of Safeguards Information	
BIENNIAL PI&R IINSPECTION						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	
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	08/26/2019	08/30/2019	IP 71130.07	000739	Security Training	
1	08/26/2019	08/30/2019	IP 71151	001338	Performance Indicator Verification	
2019 Clinton Exam						3
1	09/15/2019	09/15/2019	OV	000956	VALIDATION OF INITIAL LICENSE EXAMINATION (OV)	
1	10/13/2019	10/25/2019	EXAD	000500	LICENSE EXAM ADMINISTRATION (EXAD)	

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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	
CLINTON Biennial RQI						2
1	10/28/2019	11/01/2019	IP 71111.11B	000704	Licensed Operator Requalification Program and Licensed Operator Performance - Biennial	
SECURITY BASELINE INSPECTION						1
1	11/08/2019	11/12/2019	IP 71130.14	000743	Review of Power Reactor Target Sets	