



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

May 3, 2019

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

SUBJECT: CLINTON POWER STATION, UNIT 1—NRC EMERGENCY PREPAREDNESS
EXERCISE INSPECTION; INSPECTION REPORT 05000461/2019501

Dear Mr. Hanson:

On March 21, 2019, the U.S. Nuclear Regulatory Commission (NRC) completed an inspection at your Clinton Power Station, Unit 1, and discussed the results of this inspection with Mr. J. Kowalski and other members of your staff. The results of this inspection are documented in the enclosed report.

The NRC inspectors did not identify any finding or violation of more than minor significance.

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 Title 10 of the *Code of Federal Regulations*, Part 2.390, "Public Inspections, Exemptions, Requests for Withholding."

Sincerely,

/RA/

Randal D. Baker, Chief
Operations Branch

Docket No.: 05000461
License No.: NPF-62

Enclosure:
IR 05000461/2019501

cc: Distribution via LISTSERV®

Letter to Bryan C. Hanson from Randal D. Baker dated May 3, 2019.

SUBJECT: CLINTON POWER STATION, UNIT 1—NRC EMERGENCY PREPAREDNESS EXERCISE INSPECTION; INSPECTION REPORT 05000461/2019501

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**U.S. NUCLEAR REGULATORY COMMISSION
Inspection Report**

Docket Number: 05000461

License Number: NPF-62

Report Number: 05000461/2019501

Enterprise Identifier: I-2019-501-0014

Licensee: Exelon Generation Company, LLC

Facility: Clinton Power Station

Location: Clinton, IL

Inspection Dates: March 18, 2019, to March 22, 2019

Inspectors: M. Garza, Emergency Preparedness Inspector
G. Hansen, Sr. Emergency Preparedness Inspector
T. Ospino, Reactor Engineer
F. Tran, Health Physicist (Licensing)

Approved By: Randal D. Baker, Chief
Operations Branch
Division of Reactor Safety

SUMMARY

The U.S. Nuclear Regulatory Commission (NRC) continued monitoring the licensee's performance by conducting a NRC Emergency Preparedness Exercise Inspection at Clinton Power Station, Unit 1, in accordance with the Reactor Oversight Process. The Reactor Oversight Process is the NRC's program for overseeing the safe operation of commercial nuclear power reactors. Refer to <https://www.nrc.gov/reactors/operating/oversight.html> for more information. Findings and violations being considered in the NRC's assessment are summarized in the table below.

List of Findings and Violations

No findings were identified.

Additional Tracking Items

None.

INSPECTION SCOPES

Inspections were conducted using the appropriate portions of the inspection procedures (IPs) in effect at the beginning of the inspection unless otherwise noted. Currently approved IPs with their attached revision histories are located on the public website at <http://www.nrc.gov/reading-rm/doc-collections/insp-manual/inspection-procedure/index.html>. Samples were declared complete when the IP requirements most appropriate to the inspection activity were met consistent with Inspection Manual Chapter (IMC) 2515, "Light-Water Reactor Inspection Program - Operations Phase." The inspectors reviewed selected procedures and records, observed activities, and interviewed personnel to assess licensee performance and compliance with Commission rules and regulations, license conditions, site procedures, and standards.

REACTOR SAFETY

71114.01 - Exercise Evaluation

Inspection Review (IP Section 02.01-02.11) (1 Sample)

The inspectors evaluated the biennial emergency plan exercise on March 19, 2019. The exercise scenario simulated an event at the Clinton Power Station that initiated with the declaration and notification of an Alert in response to abnormal plant conditions that caused the on-shift crew to initiate a manual scram that resulted in an Anticipated Transient Without Scram. The scenario conditions simulated the escalation of the significance of the event, requiring the declaration of a Site Area Emergency, and then a General Emergency, as well as the development of Protective Action Recommendations that were communicated to the required state and local government agencies.

71114.08 - Exercise Evaluation Scenario Review

Inspection Review (IP Section 02.01 - 02.04) (1 Sample)

The inspectors reviewed and evaluated the proposed scenario for biennial emergency plan exercise on February 15, 2019.

OTHER ACTIVITIES – BASELINE

71151 - Performance Indicator Verification

The inspectors verified licensee performance indicators submittals listed below:

Alert & Notification System Reliability (IP Section 02.14) (1 Sample)

3rd quarter - 4th quarter 2018

Drill/Exercise Performance (IP Section 02.12) (1 Sample)

3rd quarter - 4th quarter 2018

ERO Drill Participation (IP Section 02.13) (1 Sample)

3rd quarter - 4th quarter 2018

INSPECTION RESULTS

No findings were identified.

EXIT MEETINGS AND DEBRIEFS

The inspectors verified no proprietary information was retained or documented in this report.

- On March 21, 2019, the inspector presented the NRC Emergency Preparedness Exercise Inspection results to Mr. J. Kowalski and other members of the licensee staff.

DOCUMENTS REVIEWED

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
71114.01	Corrective Action Documents	AR 0231242	NOS ID: A Used Protective Clothing Container Not Staged	03/19/19
71114.01	Corrective Action Documents	AR 03985112	EP Drill Critique Items	03/14/17
71114.01	Corrective Action Documents	AR 04007063	EP Drill Evaluation Results	05/05/17
71114.01	Corrective Action Documents	AR 04067474	Drive In Drill Critique Items	09/27/17
71114.01	Corrective Action Documents	AR 04074715	Clinton 2017 NRC EP Exercise EOF ERO Performance Demonstration Criteria Failures	11/14/17
71114.01	Corrective Action Documents	AR 04130446	EP Drill Critique Items	04/24/18
71114.01	Corrective Action Documents	AR 04168991	Clinton EP Off-Year Exercise - CR Simulator Performance Issues	08/28/18
71114.01	Corrective Action Documents	AR 04179787	CPS Off-Year Exercise: Other Issues Identified	08/28/18
71114.01	Corrective Action Documents	AR 04204932	Gaitronics Speaker Volume Too Low	12/20/18
71114.01	Corrective Action Documents	AR 04224505	EPID: 2/19/19 EP Exercise: SIM/MCR Failed Demonstration Criteria	02/19/19
71114.01	Corrective Action Documents	AR 04230949	Procedure Enhancement for 4110.10	03/19/19
71114.01	Corrective Action Documents	AR 04230961	PA Announcement not Immediately Heard 781 Aux During Drill	03/19/19
71114.01	Corrective Action Documents	AR 04231080	EP ID: PA Announcements Not Heard in OCC	03/19/19
71114.01	Miscellaneous	2018 Off-Year Exercise	Clinton 2018 Off Year Exercise Evaluation Report	08/28/18
71114.01	Miscellaneous	2019 Pre-Exercise Evaluation	Clinton 2019 Pre-Exercise Evaluation Report	02/19/19
71114.01	Miscellaneous	PowerPoint	Clinton Biennial Exercise – Exercise Evaluation Results	03/21/19

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
		Presentation		
71114.01	Procedures	EP-AA-1000	Exelon Nuclear Standardized Radiological Emergency Plan	29
71114.01	Procedures	EP-AA-1003	Exelon Nuclear Radiological Emergency Plan Annex for Clinton Station	28
71114.01	Procedures	EP-AA-1003, Addendum 1	Clinton Station On-Shift Staffing Technical Basis	1
71114.01	Procedures	EP-AA-1003, Addendum 3	Exelon Nuclear Emergency Action Levels for Clinton Station	2
71114.01	Procedures	EP-AA-110-200	Dose Assessment	12
71114.01	Procedures	EP-AA-110-301	Core Damage Assessment (BWR)	10
71114.01	Procedures	EP-AA-111	Emergency Classification and Protective Action Recommendations	21
71114.01	Procedures	EP-AA-112	Emergency Response Organization (ERO)/Emergency Response Facility Activation and Operation	20
71114.01	Procedures	EP-AA-113	Personnel Protective Actions	13
71114.01	Procedures	EP-AA-114	Notifications	13
71114.08	Miscellaneous	RS-19-007 Attachment	Clinton 2019 NRC Graded Exercise Manual	01/17/19
71151	Miscellaneous	NEI 99-02	Regulatory Assessment Performance Indicator Guideline	7
71151	Miscellaneous	NRC PI Data Sheets	NRC Indicator ANS Reliability	07/01/18 - 12/31/18
71151	Miscellaneous	NRC PI Data Sheets	ERO Readiness	07/01/18 - 12/31/18
71151	Miscellaneous	NRC PI Data Sheets	Drill/Exercise Performance	07/01/18 - 12/31/18