



**UNITED STATES  
NUCLEAR REGULATORY COMMISSION**  
REGION I  
2100 RENAISSANCE BLVD.  
KING OF PRUSSIA, PA 19406-2713

April 28, 2016

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

SUBJECT: R.E. GINNA NUCLEAR POWER PLANT, LLC - INTEGRATED INSPECTION  
REPORT 05000244/2016001

Dear Mr. Hanson:

On March 31, 2016, the U.S. Nuclear Regulatory Commission (NRC) completed an inspection at the R.E. Ginna Nuclear Power Plant, LLC (Ginna). The enclosed inspection report documents the inspection results, which were discussed on April 13, 2016, with Mr. Joseph Pacher, Site Vice President, and other members of the Ginna staff.

NRC inspectors examined activities conducted under your license as they relate to safety and compliance with the Commission's rules and regulations and with the conditions of your license. The inspectors reviewed selected procedures and records, observed activities, and interviewed personnel.

The inspectors documented one licensee-identified violation which was determined to be of very low safety significance. The NRC is treating this violation as a non-cited violation (NCV) consistent with Section 2.3.2.a of the Enforcement Policy.

If you contest the NCV in this report, you should provide a response within 30 days of the date of this inspection report, with the basis for your denial, to the U.S. Nuclear Regulatory Commission, ATTN: Document Control Desk, Washington DC 20555-0001; with copies to the Regional Administrator, Region I; the Director, Office of Enforcement, U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001; and the NRC Resident Inspectors at Ginna.

B. Hanson

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In accordance with Title 10 of the *Code of Federal Regulations* 2.390 of the NRC's "Rules of Practice," a copy of this letter, its enclosure, and your response (if any) will be available electronically for public inspection in the NRC's Public Document Room or from the Publicly Available Records component of the NRC's Agencywide Documents Access and Management System (ADAMS). ADAMS is accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

Sincerely,

**/RA/**

Anthony Dimitriadis, Chief  
Reactor Projects Branch 1  
Division of Reactor Projects

Docket No. 50-244  
License No. DPR-18

Enclosure:  
Inspection Report 05000244/2016001  
w/Attachment: Supplementary Information

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B. Hanson

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**U.S. NUCLEAR REGULATORY COMMISSION****REGION I**

Docket No. 50-244

License No. DPR-18

Report No. 05000244/2016001

Licensee: Exelon Generation Company, LLC (Exelon)

Facility: R.E. Ginna Nuclear Power Plant, LLC (Ginna)

Location: Ontario, New York

Dates: January 1, 2016, through March 31, 2016

Inspectors: N. Perry, Senior Resident Inspector  
J. Petch, Resident Inspector  
H. Anagnostopoulos, Health Physicist  
A. Siwy, Project Engineer

Approved by: Anthony Dimitriadis, Chief  
Reactor Projects Branch 1  
Division of Reactor Projects

Enclosure

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## **SUMMARY**

Inspection Report 05000244/2016001; 01/01/2016 – 03/31/2016; Ginna; Routine Integrated Inspection Report.

This report covered a 3-month period of inspection by resident inspectors and announced inspections performed by regional inspectors. No findings were identified. The U.S. Nuclear Regulatory Commission's (NRC's) program for overseeing the safe operation of commercial nuclear power reactors is described in NUREG-1649, "Reactor Oversight Process," Revision 5.

### **Other Findings**

A violation of very low safety significance that was identified by Exelon was reviewed by the inspectors. Corrective actions taken or planned by Exelon have been entered into Exelon's corrective action program (CAP). This violation and corrective action tracking number are listed in Section 4OA7 of this report.

## REPORT DETAILS

### Summary of Plant Status

Ginna began the inspection period operating at 100 percent power and remained at or near 100 percent power for the entire inspection period.

## 1. REACTOR SAFETY

### **Cornerstones: Initiating Events, Mitigating Systems, and Barrier Integrity**

#### 1R01 Adverse Weather Protection (71111.01 – 1 sample)

##### Readiness for Impending Adverse Weather Conditions

##### a. Inspection Scope

The inspectors reviewed Exelon's readiness for the onset of seasonal cold temperatures on February 11 and 12, 2016. The inspectors reviewed the implementation of adverse weather preparation procedures before the onset of and during this adverse weather condition. The inspectors walked down the screen house, the turbine building, intermediate building, standby auxiliary building, and the auxiliary building. The inspectors verified that operator actions defined in Exelon's adverse weather procedures maintained the readiness of essential systems. The inspectors discussed readiness and staff availability for adverse weather response with operations and work control personnel. Documents reviewed for each section of this inspection report are listed in the Attachment.

##### b. Findings

No findings were identified.

#### 1R04 Equipment Alignment

##### .1 Partial System Walkdowns (71111.04Q – 5 samples)

##### a. Inspection Scope

The inspectors performed partial walkdowns of the following systems:

- 'B' service water (SW) loop on January 22, 2016
- 'D' standby auxiliary feedwater (AFW) system on February 2, 2016
- Diesel fire pump on March 29 & 30, 2016
- NaOH and containment spray system on March 30, 2016
- Safety injection system on March 31, 2016

The inspectors selected these systems based on their risk-significance relative to the reactor safety cornerstones at the time they were inspected. The inspectors reviewed applicable operating procedures, system diagrams, the Updated Final Safety Analysis Report (UFSAR), technical specifications (TSs), action requests (ARs), and the impact of

ongoing work activities on redundant trains of equipment in order to identify conditions that could have impacted system performance of their intended safety functions. The inspectors also performed field walkdowns of accessible portions of the systems to determine if system components and support equipment were aligned correctly and were operable. The inspectors examined the material condition of the components and observed operating parameters of equipment to verify that there were no deficiencies. The inspectors also reviewed whether Exelon staff had properly identified equipment issues and entered them into the CAP for resolution with the appropriate significance characterization.

b. Findings

No findings were identified.

.2 Full System Walkdown (71111.04S – 1 sample)

a. Inspection Scope

On March 3, 2016, the inspectors performed a complete system walkdown of accessible portions of the 'B' AFW system to verify the existing equipment lineup was correct. The inspectors reviewed operating procedures, drawings, equipment lineup check-off lists, and the UFSAR to verify the system was aligned to perform its required safety functions. The inspectors also reviewed electrical power availability, component lubrication and equipment cooling, hanger and support functionality, and operability of support systems. The inspectors performed field walkdowns of accessible portions of the systems to verify as-built system configuration matched plant documentation, and that system components and support equipment remained operable. The inspectors confirmed that systems and components were aligned correctly, free from interference from temporary services or isolation boundaries, environmentally qualified, and protected from external threats. The inspectors also examined the material condition of the components for degradation and observed operating parameters of equipment to verify that there were no deficiencies. Additionally, the inspectors reviewed a sample of related ARs and work orders to ensure Exelon appropriately evaluated and resolved any deficiencies.

b. Findings

No findings were identified.

1R05 Fire Protection

.1 Resident Inspector Quarterly Walkdowns (71111.05Q – 6 samples)

a. Inspection Scope

The inspectors conducted tours of the areas listed below to assess the material condition and operational status of fire protection features. The inspectors verified that Exelon controlled combustible materials and ignition sources in accordance with administrative procedures. The inspectors verified that fire protection and suppression equipment was available for use as specified in the area pre-fire plan, and passive fire barriers were maintained in good material condition. The inspectors also verified that



station personnel implemented compensatory measures for out of service, degraded, or inoperable fire protection equipment, as applicable, in accordance with procedures.

- Technical support center on January 12, 2016
- Cable tunnel on January 28, 2016
- Auxiliary building operating floor on February 5, 2016
- Intermediate building controlled side operating floor on February 7, 2016
- 'A' battery room on February 10, 2016
- Intermediate building cold operating levels March 23, 2016

b. Findings

No findings were identified.

.2 Fire Protection – Drill Observation (71111.05A – 1 sample)

a. Inspection Scope

The inspectors observed a fire brigade drill scenario conducted on January 20, 2016, that involved a fire in the air handling room. The inspectors evaluated the readiness of the plant fire brigade to fight fires. The inspectors verified that Exelon personnel identified deficiencies, openly discussed them in a self-critical manner at the debrief, and took appropriate corrective actions as required. The inspectors evaluated the following specific attributes of the drill:

- Proper wearing of turnout gear and self-contained breathing apparatus (SCBA)
- Proper use and layout of fire hoses
- Employment of appropriate fire-fighting techniques
- Sufficient fire-fighting equipment brought to the scene
- Effectiveness of command and control
- Search for victims and propagation of the fire into other plant areas
- Smoke removal operations
- Utilization of pre-planned strategies
- Adherence to the pre-planned drill scenario
- Drill objectives met

The inspectors also evaluated the fire brigade's actions to determine whether these actions were in accordance with Exelon's fire-fighting strategies.

b. Findings

No findings were identified.

1R06 Flood Protection Measures (71111.06 – 1 sample)Annual Review of Cables Located in Underground Bunkers/Manholesa. Inspection Scope

The inspectors conducted an inspection of underground bunkers/manholes subject to flooding that contain cables whose failure could affect risk-significant equipment. The inspectors performed walkdowns of risk-significant areas, including manhole MH-1A containing offsite power cables from the start-up transformer, to verify that the cables were not submerged in water, that cables and/or splices appeared intact, and to observe the condition of cable support structures. When applicable, the inspectors verified proper sump pump operation and verified level alarm circuits were set in accordance with station procedures and calculations to ensure that the cables will not be submerged. The inspectors also ensured that drainage was provided and functioning properly in areas where dewatering devices were not installed.

b. Findings

No findings were identified.

1R11 Licensed Operator Requalification Program and Licensed Operator Performance (71111.11Q – 2 samples).1 Quarterly Review of Licensed Operator Requalification Testing and Traininga. Inspection Scope

The inspectors observed licensed operator simulator training on February 2, 2016, which included a condensate booster pump trip and loss of offsite power during the resulting reduction in power. The inspectors evaluated operator performance during the simulated event and verified completion of risk-significant operator actions, including the use of abnormal and emergency operating procedures. The inspectors assessed the clarity and effectiveness of communications, implementation of actions in response to alarms and degrading plant conditions, and the oversight and direction provided by the unit supervisor. The inspectors verified the accuracy and timeliness of the emergency classifications made by the shift manager and the TS action statements entered by the unit supervisor. Additionally, the inspectors assessed the ability of the crew and training staff to identify and document crew performance problems.

b. Findings

No findings were identified.

.2 Quarterly Review of Licensed Operator Performance in the Main Control Rooma. Inspection Scope

The inspectors observed and reviewed the down power for turbine-driven AFW testing and control board annunciator repair and testing on March 9, 2016. The inspectors observed pre-job briefings and reactivity control briefings to verify that the briefings met

the criteria specified in procedure HU-AA-1211, "Pre-Job Briefings," Revision 011. Additionally, the inspectors observed test performance to verify that procedure use, crew communications, and coordination of activities between work groups similarly met established expectations and standards.

b. Findings

No findings were identified.

1R12 Maintenance Effectiveness (71111.12Q – 2 samples)

a. Inspection Scope

The inspectors reviewed the samples listed below to assess the effectiveness of maintenance activities on structure, system, and component (SSC) performance and reliability. The inspectors reviewed system health reports, CAP documents, and maintenance rule basis documents to ensure that Exelon was identifying and properly evaluating performance problems within the scope of the maintenance rule. For each sample selected, the inspectors verified that the SSC was properly scoped into the maintenance rule in accordance with Title 10 of the *Code of Federal Regulations* (10 CFR) 50.65 and verified that the (a)(2) performance criteria established by Exelon staff were reasonable. As applicable, for SSCs classified as (a)(1), the inspectors assessed the adequacy of goals and corrective actions to return these SSCs to (a)(2).

Additionally, the inspectors ensured that Exelon staff was identifying and addressing common cause failures that occurred within and across maintenance rule system boundaries.

- Fire protection on January 15, 2016
- 'A' emergency diesel generator (EDG) on February 18, 2016

b. Findings

No findings were identified.

1R13 Maintenance Risk Assessments and Emergent Work Control (71111.13 – 5 samples)

a. Inspection Scope

The inspectors reviewed station evaluation and management of plant risk for the maintenance and emergent work activities listed below to verify that Exelon performed the appropriate risk assessments prior to removing equipment from service. The inspectors selected these activities based on potential risk significance relative to the reactor safety cornerstones. As applicable for each activity, the inspectors verified that Exelon personnel performed risk assessments as required by 10 CFR 50.65(a)(4) and that the assessments were accurate and complete. When Exelon performed emergent work, the inspectors verified that operations personnel promptly assessed and managed plant risk. The inspectors reviewed the scope of maintenance work and discussed the results of the assessment with the station's probabilistic risk analyst to verify plant conditions were consistent with the risk assessment. The inspectors also reviewed the TS requirements and inspected portions of redundant safety systems, when applicable, to verify risk analysis assumptions were valid and applicable requirements were met.

- Planned maintenance on the 'A' EDG on January 11, 2016
- Planned maintenance on the 'B' SW loop and 'C' SW pump motor on January 21, 2016
- Unplanned maintenance on the 12A transformer on February 18, 2016
- Emergent maintenance on the station air compressors on March 14 and 15, 2016
- Planned maintenance on fire suppression system S08 on March 25, 2016

b. Findings

No findings were identified.

1R15 Operability Determinations and Functionality Assessments (71111.15 – 4 samples)

a. Inspection Scope

The inspectors reviewed operability determinations for the following degraded or non-conforming conditions based on the risk significance of the associated components and systems:

- 'B' EDG starters and contactors potential defect on February 26, 2016
- Standby AFW suction relief valves weeping on March 15, 2016
- Component cooling water heat exchanger SW minimum wall thickness on March 24, 2016
- Emergency buses' breakers potential failure to close on March 24, 2016

The inspectors evaluated the technical adequacy of the operability determinations to assess whether TS operability was properly justified and the subject component or system remained available such that no unrecognized increase in risk occurred. The inspectors compared the operability and design criteria in the appropriate sections of the TSs and UFSAR with Exelon's evaluations to determine whether the components or systems were operable. The inspectors determined, where appropriate, compliance with bounding limitations associated with the evaluations. Where compensatory measures were required to maintain operability, the inspectors determined whether the measures in place would function as intended and were properly controlled by Exelon.

b. Findings

No findings were identified.

1R18 Plant Modifications (71111.18 – 3 samples)

Permanent Modifications

a. Inspection Scope

The inspectors evaluated two related modifications to the turbine-driven AFW pump and one modification to the staircase tower block wall in the intermediate building. The inspectors verified that the design bases, licensing bases, and performance capability of the affected systems were not degraded by the modifications.

For the turbine-driven AFW modifications, the inspectors reviewed modification

documents associated with the upgrade and design change that included the installation of two separate support brackets. Vibrations recorded on the turbine outer bearing housing rose to unacceptable levels following the turbine over-speed trip post-maintenance testing on November 16, 2015. To lower vibrations, one bracket was used to provide support to the outer turbine bearing housing and a second bracket for the low oil pressure trip device. After completion of the modifications, vibrations were lowered to acceptable levels.

For the intermediate building, staircase tower, block wall modification, the inspectors evaluated a structural modification to a fire barrier block wall on the inside of the staircase between the intermediate building cold side and the turbine building. The inspectors reviewed modification documents associated with the upgrade and design change that included the installation of a steel plate. In addition, the inspectors performed a walkdown of block walls in the vicinity to verify that no other sections of wall were affected.

b. Findings

No findings were identified.

1R19 Post-Maintenance Testing (71111.19 – 8 samples)

a. Inspection Scope

The inspectors reviewed the post-maintenance tests for the maintenance activities listed below to verify that procedures and test activities adequately tested the safety functions that may have been affected by the maintenance activity, that the acceptance criteria in the procedure were consistent with the information in the applicable licensing basis and/or design basis documents, and that the test results were properly reviewed and accepted and problems were appropriately documented. The inspectors also walked down the affected job site, observed the pre-job brief and post job critique where possible, confirmed that work site cleanliness was maintained, and witnessed the test or reviewed test data to verify quality control hold points were performed and checked, and that results adequately demonstrated restoration of the affected safety functions.

- Bus 17/18 tie breaker planned maintenance on January 28, 2016
- 'D' standby AFW motor planned maintenance on February 1, 2016
- 'A' spent fuel pool (SFP) pump planned maintenance on February 9, 2016
- Deluge system valve unplanned maintenance on February 19, 2016
- B5B fire pump planned maintenance on February 26, 2016
- 'B' AFW pump valve V-4032 planned replacement on March 1, 2016
- 'B' flex pump annual maintenance on March 2, 2016
- Motor-driven fire pump planned maintenance on March 31, 2016

b. Findings

No findings were identified.

1R22 Surveillance Testing (71111.22 – 9 samples)a. Inspection Scope

The inspectors observed performance of surveillance tests and/or reviewed test data of selected risk-significant SSCs to assess whether test results satisfied TSs, the UFSAR, and Exelon procedure requirements. The inspectors verified that test acceptance criteria were clear, tests demonstrated operational readiness and were consistent with design documentation, test instrumentation had current calibrations and the range and accuracy for the application, tests were performed as written, and applicable test prerequisites were satisfied. Upon test completion, the inspectors considered whether the test results supported that equipment was capable of performing the required safety functions. The inspectors reviewed the following surveillance tests:

- STP-O-12.2, Emergency Diesel Generator 'B' on January 7, 2016
- STP-I-9.1.14, Undervoltage Protection – 480 Volt Safeguard Bus 14 on January 14, 2016
- STP-O-2.7.1B, Loop 'B' Service Water Pump Test on January 21, 2016 (inservice testing)
- STP-O-12.2, Emergency Diesel Generator 'B' on February 2, 2016
- STP-O-40.6, Standby AFW and NFPA [National Fire Protection Association] Diesel Generators (KDG08/KDG09) Pre-Startup Alignment on February 9, 2016
- STP-O-36R, Valve 9786 Operability Verification on February 19, 2016
- STP-O-22.16, Local Leak Rate Test of Mechanical Manifold 'J' on February 22, 2016 (isolation valve)
- STP-E-10.2, Station Battery 'B' Monthly Surveillance on March 1, 2016
- STP-O-16-COMP-T, Auxiliary Feedwater Turbine Pump – Comprehensive Test on March 9, 2016 (inservice testing)

b. Findings

No findings were identified.

**Cornerstone: Emergency Preparedness**1EP6 Drill Evaluation (71114.06 – 1 sample)Emergency Preparedness Drill Observationa. Inspection Scope

The inspectors evaluated the conduct of a routine Exelon emergency preparedness drill on January 26, 2016, to identify any weaknesses and deficiencies in the classification, notification, and protective action recommendation development activities. The inspectors observed emergency response operations in the simulator, technical support center, and emergency operations facility to determine whether the event classification, notifications, and protective action recommendations were performed in accordance with procedures. The inspectors also attended the station drill critique to compare inspector

observations with those identified by Exelon staff in order to evaluate Exelon's critique and to verify whether Exelon was properly identifying weaknesses and entering them into the CAP.

b. Findings

No findings were identified.

## 2. **RADIATION SAFETY**

### **Cornerstone: Public Radiation Safety and Occupational Radiation Safety**

#### 2RS3 In-Plant Airborne Radioactivity Control and Mitigation (71124.03 – 4 samples)

a. Inspection Scope

The inspectors reviewed the control of in-plant airborne radioactivity and the use of respiratory protection devices in these areas. The inspectors used the requirements in 10 CFR Part 20, "Standards for Protection Against Radiation"; NUREG/CR-0041, "Manual of Respiratory Protection Against Airborne Radioactive Material"; regulatory guides; TS; and procedures required by TS as criteria for determining compliance.

#### Inspection Planning

The inspectors reviewed the UFSAR to identify ventilation and radiation monitoring systems associated with airborne radioactivity controls and respiratory protection equipment staged for emergency use. The inspectors also reviewed respiratory protection program procedures and current performance indicators for unintended internal exposure incidents.

#### Engineering Controls (1 sample)

The inspectors reviewed operability and use of both permanent and temporary ventilation systems, and the adequacy of airborne radioactivity radiation monitoring in the plant based on location, sensitivity, and alarm setpoints.

#### Use of Respiratory Protection Devices (1 sample)

The inspectors reviewed the adequacy of Exelon's use of respiratory protection devices in the plant to include applicable as low as reasonably achievable (ALARA) evaluations, respiratory protection device certification, respiratory equipment storage, air quality testing records, and individual qualification records.

#### SCBA for Emergency Use (1 sample)

The inspectors reviewed the status and surveillance records for three SCBAs staged in-plant for use during emergencies; Exelon's SCBA procedures and maintenance and test records; the refilling and transporting of SCBA air bottles; SCBA mask size availability; and the qualifications of personnel performing service and repair of this equipment.

### Problem Identification and Resolution (1 sample)

The inspectors evaluated whether problems associated with the control and mitigation of in-plant airborne radioactivity were identified at an appropriate threshold and addressed by Exelon's CAP.

The inspectors performed a follow-up observation of an item of concern from the previous inspection using Inspection Procedure 71124.03, "In-Plant Airborne Radioactivity Control and Mitigation." This issue was documented in condition report (CR)-2014-001525. This review was to verify that Exelon appropriately identified the issue, properly assessed the cause(s), and performed adequate corrective actions to address the concern.

#### b. Findings and Observations

No findings were identified.

In CR-2014-001525, generated on March 21, 2014, Exelon identified that a design analysis (DA-ME-94-050) was performed in 1994 to study air movements and to provide a design basis for the placement of continuous air monitors (CAMs) in the auxiliary building. The CR indicated that the analysis had not been updated and that there had been some changes to the auxiliary building that had not been reflected in the design analysis. This appropriately identified the issue of concern.

The CR was closed on April 14, 2014. The evaluation comments section of the CR stated "the Engineering Subject Matter Expert (SME) was consulted on this issue and determined that there are no impacts of plant changes on the conclusions of the design analysis. Therefore, this CR shall be closed with no further action." This assessment was further reviewed during the current inspection period. On March 23, 2016, the inspectors conducted a walkdown of auxiliary building ventilation systems with a system engineer. The engineer pointed out several modifications from the initial, as-built plant ventilation design. These included several modifications to the operating floor area near the SFP that were needed to support dry spent fuel storage operations. These modifications occurred after the 1994 design analysis and included the installation of a very large roll-up door near the SFP, the re-routing of ventilation ductwork near the SFP, and the installation of large metal and Plexiglas walls around the SFP. The inspectors also observed a CAM that was placed on the operating floor, near the new roll-up door, and outside of the SFP Plexiglas walls.

Upon completion of the walkdown, the inspectors met with engineering and radiation protection staff to determine whether the modifications around the SFP had the potential to impact airflow movements on the operating floor and, therefore, also impact the proper placement and operation of the nearby CAM that was specifically described and evaluated in the 1994 design analysis. Exelon generated AR 02645098 on March 24, 2016, to evaluate this condition. The inspectors questioned whether the closure of the original CR adequately described the plant changes since the 1994 design analysis and whether it provided an adequate basis for why the changes did not have an impact. Exelon generated AR 02645327 on March 25, 2016, to re-evaluate the closure of the original CR. The NRC review indicated that the original cause assessment was not comprehensive and that, consequently, no corrective actions were originally assigned. However, the inspectors noted there was no violation of NRC regulatory requirements.



## 2RS4 Occupational Dose Assessment (71124.04 – 5 samples)

### a. Inspection Scope

The inspectors reviewed the monitoring, assessment, and reporting of occupational dose. The inspectors used the requirements in 10 CFR Part 20; regulatory guides; TSs; and procedures required by TSs as criteria for determining compliance.

### Inspection Planning

The inspectors reviewed radiation protection program audits, National Voluntary Laboratory Accreditation Program (NVLAP) dosimetry testing reports, and procedures associated with dosimetry operations.

### Source Term Characterization (1 sample)

The inspectors reviewed the plant radiation characterization (including gamma, beta, alpha, and neutron) being monitored. The inspectors verified the use of scaling factors to account for hard-to-detect radionuclides in internal dose assessments.

### External Dosimetry (1 sample)

The inspectors reviewed dosimetry NVLAP accreditation, onsite storage of dosimeters, the use of correction factors to align electronic personal dosimeter results with NVLAP dosimetry results, dosimetry occurrence reports, and CAP documents for adverse trends related to external dosimetry.

### Internal Dosimetry (1 sample)

The inspectors reviewed internal dosimetry procedures, whole body counter measurement sensitivity and use, adequacy of the program for whole body count monitoring of plant radionuclides, adequacy of the program for dose assessments based on air sample monitoring and the use of respiratory protection, and internal dose assessments for any actual internal exposure.

### Special Dosimetry Situations (1 sample)

The inspectors reviewed Exelon's worker notification of the risks of radiation exposure to the embryo/fetus, the dosimetry monitoring program for declared pregnant workers, external dose monitoring of workers in large dose rate gradient environments, and dose assessments performed since the last inspection that used multi-badging, skin dose, or neutron dose assessments.

### Problem Identification and Resolution (1 sample)

The inspectors evaluated whether problems associated with occupational dose assessment were identified at an appropriate threshold and properly addressed in the CAP.

b. Findings

No findings were identified.

**4. OTHER ACTIVITIES**

4OA1 Performance Indicator Verification (71151 – 3 samples)

Unplanned Scrams, Unplanned Power Changes, and Unplanned Scrams with Complications

a. Inspection Scope

The inspectors reviewed Exelon's submittals for the following Initiating Events cornerstone performance indicators for the period of January 1 through December 31, 2015:

- Unplanned Scrams (IE01)
- Unplanned Power Changes (IE03)
- Unplanned Scrams with Complications (IE04)

To determine the accuracy of the performance indicator data reported during those periods, inspectors used definitions and guidance contained in Nuclear Energy Institute Document 99-02, "Regulatory Assessment Performance Indicator Guideline," Revision 7. The inspectors reviewed Exelon's operator narrative logs, maintenance planning schedules, event reports, and NRC integrated inspection reports to validate the accuracy of the submittals.

b. Findings

No findings were identified.

4OA2 Problem Identification and Resolution (71152)

Routine Review of Problem Identification and Resolution Activities

a. Inspection Scope

As required by Inspection Procedure 71152, "Problem Identification and Resolution," the inspectors routinely reviewed issues during baseline inspection activities and plant status reviews to verify that Exelon entered issues into the CAP at an appropriate threshold, gave adequate attention to timely corrective actions, and identified and addressed adverse trends. In order to assist with the identification of repetitive equipment failures and specific human performance issues for follow-up, the inspectors performed a daily screening of items entered into the CAP and periodically attended AR screening meetings. The inspectors also confirmed, on a sampling basis, that, as applicable, for identified defects and non-conformances, Exelon performed an evaluation in accordance with 10 CFR Part 21, "Reporting of Defects and Noncompliance."

b. Findings

No findings were identified.

4OA3 Follow-Up of Events and Notices of Enforcement Discretion (71153 – 1 sample)Plant Eventa. Inspection Scope

For the plant event listed below, the inspectors reviewed and/or observed plant parameters, reviewed personnel performance, and evaluated performance of mitigating systems. The inspectors communicated the plant event to appropriate regional personnel, and compared the event details with criteria contained in Inspection Manual Chapter 0309, "Reactive Inspection Decision Basis for Reactors," issued October 28, 2011, for consideration of potential reactive inspection activities. As applicable, the inspectors verified that Exelon made appropriate emergency classification assessments and properly reported the event in accordance with 10 CFR Parts 50.72 and 50.73. The inspectors reviewed Exelon's follow-up actions related to the event to assure that Exelon implemented appropriate corrective actions commensurate with their safety significance.

- 12A transformer failure on February 11, 2016

b. Findings

No findings were identified.

4OA5 Other ActivitiesWorld Association of Nuclear Operators (WANO) Report Reviewa. Inspection Scope

The inspectors reviewed the final report for the WANO plant assessment of Ginna conducted in May 2015. The inspectors evaluated this report to ensure that NRC perspectives of Exelon performance were consistent with any issues identified during the assessments. The inspectors also reviewed these reports to determine whether WANO identified any significant safety issues that required further NRC follow-up.

b. Findings

No findings were identified.

4OA6 Meetings, Including Exit

On April 13, 2016, the inspectors presented the inspection results to Mr. Joseph Pacher, Site Vice President, and other members of the Ginna staff. The inspectors verified that no propriety information was retained by the inspectors or documented in this report.

#### 4OA7 Licensee-Identified Violation

The following violation of very low safety significance (Green) was identified by Exelon and is a violation of NRC requirements which meets the criteria of the NRC Enforcement Policy for being dispositioned as a non-cited violation.

Title 10 CFR 50.54(q)(2) requires that a holder of a nuclear power reactor operating license under this part shall follow and maintain the effectiveness of an emergency plan that meets the requirements in Appendix E, "Emergency Planning and Preparedness for Production and Utilization Facilities." Section IV.B.1 of 10 CFR 50, Appendix E, requires, in part, that the means to be used for determining the magnitude of, and for continually assessing the impact of, the release of radioactive materials shall be described, including emergency action levels that are to be used as criteria for determining the need for notification and participation of State and local agencies, the Commission, and other Federal agencies, and the emergency action levels that are to be used for determining when and what type of protective measures should be considered within and outside the site boundary to protect health and safety. Contrary to the above, prior to January 7, 2016, Exelon procedure EP-AA-110-203, "GNP Dose Assessment," Revision 003, did not consider the possibility of two different flow rate values through the plant vent.

The plant vent has the capability to flow through filters when new fuel assemblies are added to the SFP resulting in the potential for two different flow rates out the vent—one with the filters in service (69074 cubic feet per minute) and one without the filters in service (50560 cubic feet per minute). Due to the error, during certain events, Exelon would have inappropriately determined the event contaminant release rate to be higher than actual, resulting in the early declaration of an emergency action level. Upon identification, Exelon entered this into its CAP as AR 02609057 and implemented dose assessment compensatory measures to be used in EP-AA-110-203, Attachment 7, "Ventilation Systems Flow Rates," table data. The inspectors determined the finding was of very low safety significance (Green) in accordance with Inspection Manual Chapter 0609, Appendix B, "Emergency Preparedness Significance Determination Process," issued September 22, 2015, because a deficient emergency classification process which would result in an overclassification, but would not result in unnecessary public protective measures should be considered Green.

#### **ATTACHMENT: SUPPLEMENTARY INFORMATION**

## **SUPPLEMENTARY INFORMATION**

### **KEY POINTS OF CONTACT**

#### Licensee Personnel

J. Pacher, Site Vice President  
W. Carsky, Plant Manager  
D. Blankenship, Director, Site Operations  
R. Everett, Director, Site Engineering  
K. Garnish, Senior Manager, Operations Support and Services  
K. Gould, Manager, Radiation Protection  
T. Harding, Manager, Site Regulatory Assurance  
S. Holmes, Radiological Engineering Supervisor  
J. Jackson, Director, Emergency Preparedness  
P. Swift, Director, Site Work Management  
J. Wells, Maintenance & Technical Training Manager  
S. Wihlen, Director, Site Maintenance

### **LIST OF ITEMS OPENED, CLOSED, DISCUSSED, AND UPDATED**

None.

### **LIST OF DOCUMENTS REVIEWED**

#### **Section 1R01: Adverse Weather Protection**

##### Procedures

EPIP-1-17, Planning for Adverse Weather, Revision 01000  
ER-SC.1, Adverse Weather Plan, Revision 023  
O-22, Cold Weather Walkdown Procedure, Revision 018  
OP-AA-108-111-1001, Severe Weather and Natural Disaster Guidelines, Revision 14

#### **Section 1R04: Equipment Alignment**

##### Procedures

P-15.66, Adjusting Pressure in NaOH Storage Tank, Revision 00001  
STP-O-30.1, Safety Injection System Valve and Breaker Position Verification, Revision 00105  
STP-O-30.3, Containment Spray System Valve and Breaker Position Verification, Revision 00101  
STP-O-30.5, Standby Auxiliary Feedwater Pumps Valves and Breakers, Revision 00400  
T-36.1, Station Service Water Header Valve Alignment for Two Loop Operation, Revision 05000  
T-41A, Alignment of Auxiliary Feedwater System Prior to Power Operation, Revision 08301

##### Drawings

33013-1250, Station Service Cooling Water Safety Related Piping and Instrumentation Drawing (P&ID), Revision 66, Sheet 1 of 3

33013-1250, Station Service Cooling Water Safety Related P&ID, Revision 49, Sheet 2  
 33013-1237, Auxiliary Feedwater P&ID, Revision 70  
 33013-1238, Standby Auxiliary Feedwater P&ID, Revision 39  
 33013-1261, Containment Spray P&ID, Revision 46  
 33013-1246, Auxiliary Coolant Component Cooling Water P&ID, Revision 13, Sheet 2  
 33013-1262, Safety Injection and Accumulators P&ID, Revision 34, Sheet 1  
 33013-1262, Safety Injection and Accumulators P&ID, Revision 8, Sheet 2  
 33013-1989, Fire Protection Systems Fire Service Water Plant Systems P&ID, Revision 28

Action Requests

02544649	02609923	02633300	02645691
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**Section 1R05: Fire Protection`**

Procedures

FRP-6.0, Auxiliary Building Operating Floor, Revision 00800  
 FRP-9.0, Intermediate Building Controlled Side Operating Floor, Revision 00802  
 FRP-12.0, Intermediate Building Main Steam Header Floor, Revision 00802  
 FRP-13.0, Intermediate Building Clean Side Fan Floor, Revision 00902  
 FRP-14.0, Intermediate Building Clean Side Top Floor, Revision 00902  
 FRP-15.0, Cable Tunnel, Revision 00801  
 FRP-17.0, Battery Room 'A', Revision 00701  
 FRP-29.0, Technical Support Center, Revision 01301

Drawings

21488-0120, Intermediate Building Clean Side Partial Elevation West Wall Penetration and Pyrocrete Locations Floor Elevation 315 feet 4 inches, Revision 1, Sheet 13  
 21488-0121, Fire Barrier General Arrangement Sheet Intermediate Building – Controlled Area Floor Plan Above Operating Floor Penetration Locations Floor Elevation 271 feet 0 inches, 278 feet 4 inches, Revision 6, Sheet 3  
 488-0121, Fire Barrier General Arrangement Sheet Intermediate Building – Controlled Area Section A-A South Wall, Section B-B West Wall Penetration Locations Floor Elevation 271 feet 0 inches, Revision 10, Sheet 4  
 33013-0971, Masonry Wall Identification Plan Basement Levels, Revision 2  
 33013-0972, Masonry Wall Identification Plan Intermediate Levels, Revision 1  
 33013-0973, Masonry Wall Identification Plan Operating Levels, Revision 2  
 33013-2100, Plant Arrangement General Plant Plot and Drawing Index, Revision 2  
 33013-2551, Fire Response Plan Containment Structure and Intermediate Building Plan – Operating Floor Elevation 278 feet 4 inches and 274 feet 6 inches, Revision 8  
 33013-2552, Fire Response Plan Auxiliary Building Plan – Operating Floor Elevation 271 feet 0 inches, Revision 15  
 33013-2555, Fire Response Plan Technical Support Center Plan Above Elevation 271 feet 0 inches and 272 feet 0 inches, Revision 008  
 33013-2556, Fire Response Plan Turbine Building Plan – Operating Floor Elevation 298 feet 6 inches, Revision 8  
 33013-2557, Fire Response Plan Intermediate Building Plans – Elevation 293 feet 0 inches, 298 feet 4 inches, and 315 feet 4 inches, Revision 4  
 33013-2558, Fire Response Plan Containment Structure Tendon Access Platform and Main Steam Access Plat, Revision 2

33013-2559, Fire Response Plan Control Building, Revision 13  
33013-2545, Fire Response Plan Containment Structure and Intermediate Building Elevation  
253 feet 3 inches, Revision 9

Action Requests

02466793                      02579118                      02644500                      02644510

Miscellaneous

2016-01B1, Control Building Air Handling Room Fire  
DA-ME-13-001, Evaluation of R.E. Ginna Nuclear Station Appendix R Exemptions for Transition  
to NFPA 805, Revision 0  
ECP-15-000652-309-101-01 From-309-101, Engineering Technical Evaluation, Revision 0

**Section 1R06: Flood Protection Measures**

Drawing

33013-0014, 34.5 KV Ducts and Control Duct Plan and Profile, Revision L

Work Order

C92950864

**Section 1R11: Licensed Operator Regualification Program and Licensed Operator Performance**

Procedures

HU-AA-1211, Pre-Job Briefings, Revision 011  
OP-AA-101-113-1006, 4.0 Crew Critique Guidelines, Revision 6

Miscellaneous

Licensed Operator Regualification Examination Material approved January 12, 2016

**Section 1R12: Maintenance Effectiveness**

Procedures

ER-AA-310-1001, Maintenance Rule – Scoping, Revision 004  
ER-AA-310-1002, Maintenance Rule Functions – Safety Significance Classification, Revision 003  
ER-AA-310-1003, Maintenance Rule – Performance Criteria, Revision 004  
ER-AA-310-1004, Maintenance Rule – Performance Monitoring, Revision 013  
MR1-2013-0049, Maintenance Rule Change Control, Revision 000  
PRAER-G1-2009-006, Revision 0

Action Requests

02573642                      02601330

Miscellaneous

Apparent Cause Investigation Report (Equipment) for Diesel Generator 'A' Feed to Bus 18 Circuit  
Breaker (52/EG1A2) Failed to Close on Demand, Revision 0 and Revision 1  
Maintenance Rule (a)(1) Determination for EDG 'A' Supply Breakers 52/EG1A1 and 52/EG1A2

### **Section 1R13: Maintenance Risk Assessments and Emergent Work Control**

#### Procedures

A-601.16, On-Line Fire Risk Management, Revision 00100  
 ER-ELEC.3, Emergency Offsite Backfeed via Main and Unit Transformers, Revision 00800  
 OPG-PROTECTED-EQUIPMENT, Operations Protected Equipment Program, Revision 01500  
 WC-AA-104, Integrated Risk Management, Revision 023

#### Action Request

02645249

#### Miscellaneous

S08 Risk Evaluation, Revision 0  
 Simple Issue Risk Assessment GIN-1-2016-0132, Revision 0

### **Section 1R15: Operability Determinations and Functionality Assessments**

#### Procedure

GME-50-02-DB50, Westinghouse, 480V Air Circuit Breaker, Type DB-50 Maintenance for Type DB-50 Breakers, Revision 02600

#### Drawing

C381-0358, Service Water Return from Component Cooling Heat Exchanger to Wall Column Q (EWR 2512), Revision 20, Sheet 3

#### Condition Report

2005-2767

#### Action Requests

02573642	02618563	02620316	02636117
02636164	02641410		

#### Miscellaneous

Apparent Cause Evaluation Report for Action Report 2005-2767  
 Apparent Cause Investigation Report (Equipment) for Diesel Generator 'A' Feed to Bus 18 Circuit Breaker (52/EG1A2) Failed to Close on Demand, Revisions 0 & 1  
 ECP-16-000237, Perform Min Wall Evaluations for Thinning SW Pipe, Revision 0  
 Ginna Calculation of Breaker Terminal Voltage for Worst Case Loading  
 Maintenance Program Manual for Westinghouse Safety-Related Type DB Circuit Breakers and Associated Switchgear  
 NRC Event Report 51611  
 OPEVAL-16-001, Standby AFW 'C' & 'D' Train, PSF01A, PSF01B, 9709A, 9709B  
 Westinghouse Electric Company letters dated July 13, 2005, November 11, 2015, and February 5, 2016

### **Section 1R18: Plant Modifications**

#### Procedures

ER-AA-2008, Mitigating Systems Performance Index Monitoring and Margin Evaluation, Attachment 3, Revision 004  
 OP-AA-101-113-1004, Guidelines for the Morning Plant Status Call, Attachment 2, Revision 28



Drawings

33013-3171, Turbine-Driven AFW Low Oil Trip Seismic Mounting, Revision 0  
 33013-3172, Turbine-Driven AFW Pump Turbine Outboard Bearing Support Drawing, Revision 0  
 S382-0350, 43A, Pipe Support MK-MSU-43, Revision 1  
 S382-0350, 43B, Pipe Support MK-MSU-43, Revision 1  
 S382-0350, 43C, Pipe Support MK-MSU-43, Revision 1

Action Requests

02634324                      02593912                      02588214

Work Order

C93247296

Miscellaneous

4X Diagnostics Letter, Summary of the Turbine-Driven AFW Pump Ping Test Result,  
 November 30 to December 3, 2015, dated December 6, 2015  
 ECP-15-000659, C-Clamp Temp Mod, Revision 000  
 ECP-15-000666, Low Oil Pressure Trip Device Support, Revision 000  
 ECP-15-000678, Support to Stiffen Turbine-Driven AFW Outboard Bearing Housing, Revision 000  
 ECP-16-000198, Repair Stair Tower Block Wall, Revision 0  
 MPR Letter, Review of Ginna Turbine-Driven AFW Turbine Vibrations dated December 18, 2015  
 UFSAR, Chapter 3, Design of Structures, Components, Equipment, and Systems, Revision 21

**Section 1R19: Post-Maintenance Testing**

Procedures

CME-50-02-52/BT1718, Type DB-50 480 Volt Bus Tie 17-18 Bus 17, Position 28B Maintenance  
 for 52/BT1718, Revision 00301  
 M-11.30.1, Motor Driven or Diesel Driven Fire Pump Minor Maintenance, Revision 02502  
 S-9, SFP Cooling System Operation, Revision 00900  
 STP-O-13, Fire Pump Operation and System Alignment, Revision 003  
 STP-O-13.4, B5B Fire Pump Test, Revision 006  
 STP-O-13.4.10A, Deluge Valve System Testing – System S22 (12A Transformer),  
 Revision 00002  
 STP-O-16QB, Auxiliary Feedwater Pump 'B' – Quarterly, Revision 00601  
 STP-O-36Q-D, Standby Auxiliary Feedwater Pump 'D' – Quarterly, Revision 01200  
 STP-O-40.1, Beyond Design Basis Flex Pump Periodic Test, Revision 00100

Action Request

02618288

**Section 1R22: Surveillance Testing**

Procedures

IP-IIT-3.1, Containment Isolation Valve Leak Rate Testing, Revision 00400  
 IP-IIT-3.2, Containment Penetration Leak Rate Testing, Revision 00101  
 STP-E-10.2, Station Battery 'B' Monthly Surveillance, Revision 00001  
 STP-I-9.1.14, Undervoltage Protection – 480 Volt Safeguard Bus 14, Revision 00902  
 STP-O-2.7.1B, Loop 'B' Service Water Pump Test, Revision 01701  
 STP-O-12.2, Emergency Diesel Generator 'B', Revision 01600  
 STP-O-16-COMP-T, Auxiliary Feedwater Turbine Pump – Comprehensive Test, Revision 022

STP-O-22.16, Local Leak Rate Test of Mechanical Manifold 'J', Revision 00201  
 STP-O-23B, Leak Rate Monitor Flow Integrity Check, Revision 00300  
 STP-O-36R, Valve 9786 Operability Verification, Revision 00500  
 STP-O-40.6, Standby AFW and NFPA Diesel Generators (KDG08/KDG09) Pre-Startup  
 Alignment, Revision 00200

#### Drawings

33013-1884, Penetration Pressurization System P&ID, Revision 14, Sheet 2  
 33013-1238, Standby Auxiliary Feedwater P&ID, Revision 39

#### Action Request

02620316

#### Work Order

C92921163

### **Section 1EP6: Drill Evaluation**

#### Action Requests

02617205	02617212	02617779	02618581
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#### Miscellaneous

1<sup>st</sup> Quarter 2016 ERO Integrated Drill dated January 26, 2016

### **Section 2RS3: In-Plant Airborne Radioactivity Control and Mitigation**

#### Procedures

A-3, Containment Vessel Access Requirements, Revision 06900  
 EC-CE-124-1001, F-01, F-03, F-05, and F-08 (EP Inventory Sheets)  
 EP-AA-1012, Radiological Emergency Plan Annex for Ginna Station, Revision 2  
 RF-8.4, Fuel and Core Component Movement in the Spent Fuel Pool, Revision 06201  
 RF-301, Refueling Operations (Offload, Shuffle, Reload), Revision 00900  
 RP-4103, Maintenance Inspection and Repair of MSA PAPR Units, Revision 00100  
 RP-AA-13, Respiratory Protection Program Description, Revision 000  
 RP-AA-301, Radiological Air Sampling Program, Revision 008  
 RP-AA-700-1246, Operation of Air Samplers, Revision 003  
 RP-AA-825, Maintenance, Care, and Inspection of Respiratory Protective Equipment,  
 Revision 008  
 RP-AA-825-1014, Operation and Inspection of the 3M VERSAFLO TR-300PAPR System,  
 Revision 003  
 RP-AA-825-1035, Issue and Control of Respirators, Revision 002  
 RP-AA-870-1001, Set-Up and Operation of Portable Air Filtration Equipment, Revision 004  
 RP-AA-870-1003, Testing Portable HEPA Filter Units, Revision 004  
 RP-AA-302, Determination of Alpha Levels and Monitoring, Revision 007  
 RP-AA-440, Respiratory Protection Program, Revision 012  
 RP-AA-441, Evaluation and Selection Process for Radiological Respirator Use, Revision 6  
 RP-ALA-PLAN/RWP-PREP, Total Effective Dose Evaluations (TEDE), Revision 00700  
 RP-INS-C-AMS4, Calibration of the Eberline AMS-4 Air Monitor, Revision 00901  
 RP-RES-CASCADE, Set-Up and Operation of the Model MP-2300 Breathing Air System,  
 Revision 00001  
 RP-RES-U-HEPA, Testing Of Portable HEPA Ventilation Units, Revision 00700

RP-RES-U-PAPR, Use of Powered Air Purifying Respirators, Revision 00401  
 S-23.2.2, Containment Purge Procedure, Revision 052  
 S-23.2.3, Containment Mini-Purge System Operation, Revision 01201  
 SC-3.15.7, Inspection of Self-Contained Breathing Apparatus Scott 4.5, Revision 02901  
 SC-3.16.15.1, Charging of 4.5 Units Using the Breathing Air Compressor, Revision 01700

#### Action Requests

01701503	01701504	01701255	01963021
01963349	02420233	02441226	02448453
02535020	02536683	02560634	02592314
02624841	02626246	02645327	

#### Condition Report

2014-001525

#### Issue Report

02645098

#### Work Orders

C92412353                      C92573656

#### Miscellaneous

Certificate, 3M Respiratory Protection Course Certificate for a Radiation Protection Technician Trainee dated October 13, 2008  
 Certificate, Specialist Level Maintenance of the Scott Air-Pak for a Radiation Protection Technician Trainee dated August 7, 2007  
 DA-ME-94-050, Air Flow Study/Evaluation of CAMs, Revision 0, dated May 6, 1994  
 EP-CE-124-1001-F-03, Attachment 2, Emergency Facility Inventory Sheets  
 Functional Test Results, Scott Air-Pak 4.5, Ginna SCBAs, dated June 15 and July 1, 2015  
 Issue Radiological Respiratory Protection Qualification List as of March 22, 2016  
 Laboratory Report, Compressed Air/Gas Quality Testing, Source: "Poseidon" dated August 3, 2015  
 N-AN-RP-512-006, Issue Radiological Respiratory Protection, Revision 003  
 NOSA-COMP-15-06, 2015 Radiation Protection Comparative Audit Report dated September 15, 2015  
 NRC Inspection Report 050-244/93-14 dated July 27, 1993  
 Respiratory Qualification Dates for Several Exelon Personnel  
 SA-2014-000084, Self-Assessment of the Ginna Respiratory Protection Program  
 Self-Assessment, Respiratory Protection Annual CIA, AR 02434375, dated August 28, 2015  
 TEDE ALARA Evaluation, RWP 16-00206, Replace Weir Gate Bladder, January 5, 2016  
 TEDE ALARA Evaluation, RWP 16-00222, Baffle Bolt Retrieval, January 22, 2016  
 TEDE ALARA Evaluation, RWP 16-00302, Sub-Micron Filter Change, January 21, 2016  
 Training Equivalency Determination for a Radiation Protection Technician Trainee dated August 6, 2009  
 UFSAR, Section 9.4.2

### **Section 2RS4: Occupational Dose Assessment**

#### Procedures

RP-2717, Calibration and Maintenance of the MGPI DMC 2000 S/GN Electronic Dosimeter, Revision 00101

RP-AA-201, Access to the RCA for Escorted Visitors, Revision 5  
 RP-AA-201-1001, Radiological Instruction Sheet for Escorted Visitors, Revision 2  
 RP-AA-210, Dosimetry Issue, Usage, and Control, Revision 25  
 RP-AA-210-1001, Dosimetry Logs and Forms, Revision 9  
 RP-AA-215, Calculating and Crediting Dose from Noble Gas Exposure, Revision 1  
 RP-AA-220, Bioassay Program, Revision 11  
 RP-AA-222, Methods for Estimating Internal Exposure from In-Vivo and In-Vitro Bioassay Data, Revision 5  
 RP-AA-223, Calculating And Crediting Dose from Tritium Exposure, Revision 1  
 RP-AA-224, CEDE Dose Tracking Using Lapel Air Samplers, Revision 1  
 RP-AA-270, Prenatal Radiation Exposure, Revision 7  
 RP-AA-301, Radiological Air Sampling Program, Revision 8  
 RP-AA-376, Radiological Postings, Labeling, and Markings, Revision 8

#### Action Requests

02435489	02442503	02469847	02534304
02580625	02607929	02619990	

#### Miscellaneous

10 CFR 61 Analysis Verification Data Sheet, CNG-RP-1.01-3002 Attachment 2 dated July 16, September 1 and 9, 2014; and December 17, 2015  
 Annual Review of the Bioassay Program, RP-AA-220 Attachment 3 dated March 4, 2015  
 Care of your Dosimetry (Instruction Sheet)  
 Certificate of Accreditation, NVLAP, Lab Code 100518-0 (Landauer, Inc.), January 1 to December 1, 2016  
 Certificate of Compliance, Radio Bioassay, GEL Laboratories, LLC, dated August 6, 2015  
 Dosimetry FAQs  
 DMC 2000 S/GN Calibration Data Sheet, for 37 Dosimeters dated February 27, 2015  
 Electronic Dosimetry Alarm Logs, January 14, 2015, to Present  
 On-Site Assessment Report, NIST, for Lab Code 100518-0 (Landauer, Inc.) dated May 19, 2014  
 Positive Whole Body Counts Logs, January 1, 2015, to Present  
 Performance Evaluation Results, DOELAP, Synthetic Urine/Synthetic Fecal, Session 18 for Lab-3 and Lab-4  
 Personnel Dosimetry Performance Testing (Landauer, Inc.) Badge Code 'Z' dated April 2, 2014  
 Quality Assurance Report, Teledyne Brown Engineering Environmental Services (Knoxville), January to June 2015  
 Quarterly Performance Evaluation, Inter-Comparison Studies Program, General Engineering Labs, January to March 2015  
 RP-TECH-SUPPORT-2013-0010, Revised Portal Monitor Sensitivity Study dated December 17, 2013  
 RP-TECH-SUPPORT-2014-0002, Summary of Testing of Neutron Dosimetry at R.E. Ginna Nuclear Power Plant, Revision 0  
 Self-Assessment, Exelon Corporate Response to Institute of Nuclear Power Operations IER L2-15-23 dated October 22, 2015  
 Self-Assessment, Power Lab Vendor Audit, AR 1325216, dated December 15, 2012  
 Technical Support Document No. 10-047, Ginna Nuclear Power Plant ISFSI Environmental Baseline Radiation and Containment Neutron Survey  
 Technical Support Document No. 13-060, ISFSI Neutron Dosimetry Evaluation at R.E. Ginna Nuclear Power Plant, Revision 1  
 Whole Body Count Information Sheet, RP-INS-O-ACCUSCAN-II, Attachment 3, EID 04377 dated October 24, 2015

Whole Body Count Information Sheet, RP-INS-O-ACCUSCAN-II, Attachment 3, EID 06489 dated October 22, 2015

Whole Body Count Information Sheet, RP-INS-O-ACCUSCAN-II, Attachment 3, EID 62190 dated October 23, 2015

**Section 40A1: Performance Indicator Verification**

Miscellaneous

Nuclear Energy Institute Document 99-02, Regulatory Assessment Performance Indicator Guideline, Revision 7

**Section 40A07: Licensee-Identified Violations**

Procedure

EP-AA-110-203, GNP Dose Assessment, Revision 003

Action Request

02609057                      02614271

## LIST OF ACRONYMS

10 CFR	Title 10 of the <i>Code of Federal Regulations</i>
AFW	auxiliary feedwater
ALARA	as low as reasonably achievable
AR	action request
CAM	continuous air monitor
CAP	corrective action program
CR	condition report
EDG	emergency diesel generator
NRC	Nuclear Regulatory Commission, U.S.
NVLAP	National Voluntary Laboratory Accreditation Program
P&ID	pipng and instrumentation drawing
SCBA	self-contained breathing apparatus
SFP	spent fuel pool
SSC	structure, system, and component
SW	service water
TEDE	total effective dose equivalent
TS	technical specification
UFSAR	Updated Final Safety Analysis Report
WANO	World Association of Nuclear Operators