



UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION I
2100 RENAISSANCE BLVD., SUITE 100
KING OF PRUSSIA, PENNSYLVANIA 19406-2713

May 3, 2019

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

SUBJECT: R. E. GINNA NUCLEAR POWER PLANT – POST-APPROVAL SITE INSPECTION
FOR LICENSE RENEWAL – PHASE 4 INSPECTION REPORT
05000244/2019011

Dear Mr. Hanson:

On March 22, 2019, the U.S. Nuclear Regulatory Commission (NRC) completed a Post-Approval Site Inspection for License Renewal – Phase 4 inspection at your R. E. Ginna Nuclear Power Plant and discussed the results of this inspection with Paul Swift, Plant Manager 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 10 CFR 2.390, "Public Inspections, Exemptions, Requests for Withholding."

Sincerely,

/RA/

Mel Gray, Branch Chief
Engineering Branch 1
Division of Reactor Safety

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

Enclosure:
Inspection Report 05000244/2019011

cc w/ encl: Distribution via ListServ

SUBJECT: R. E. GINNA NUCLEAR POWER PLANT – POST-APPROVAL SITE INSPECTION
 FOR LICENSE RENEWAL – PHASE 4 INSPECTION REPORT
 05000244/2019011 DATED MAY 3, 2019

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 ADAMS ACCESSION NUMBER: ML19126A012

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

Docket Number: 05000244

License Number: DPR-18

Report Number: 05000244/2019011

Enterprise Identifier: I-2019-011-0021

Licensee: R. E. Ginna Nuclear Power Plant, LLC

Facility: R. E. Ginna Nuclear Power Plant

Location: Ontario, New York

Inspection Dates: March 17, 2019 to March 23, 2019

Inspectors: K. Mangan, Senior Reactor Inspector (Team Lead)
M. Orr, Reactor Inspector
S. Pindale, Senior Reactor Inspector

Approved By: Mel Gray, Branch Chief
Engineering Branch 1
Division of Reactor Safety

SUMMARY

The U.S. Nuclear Regulatory Commission (NRC) continued monitoring the licensee's performance by conducting a Post-Approval Site Inspection for License Renewal – Phase 4 inspection at R. E. Ginna Nuclear Power Plant 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) 2516, "Policy and Guidance for the License Renewal Inspection Program." 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.

OTHER ACTIVITIES – TEMPORARY INSTRUCTIONS, INFREQUENT AND ABNORMAL

71003 - Post-Approval Site Inspection for License Renewal

The team selected for evaluation six aging management programs. The team selection of programs was based on risk insights and programs that were enhanced or new under the renewed operating license. The team also considered for selection those programs with monitoring results that were performed for the first time or identified examination or test results not experienced in the past. The inspection performed by the team was conducted as outlined in NRC IP 71003, Phase IV. For the aging management programs selected, the team reviewed records, interviewed plant staff, and conducted plant walk downs to evaluate whether aging management program elements were being implemented in accordance with NRC requirements. The team evaluated the following elements of the aging management program: scope, preventive actions, parameters monitored or inspected, detection of aging effects, monitoring and trending, acceptance criteria, corrective actions, confirmation process, administrative controls, and operating experience.

The following aging management programs were evaluated by the team:

Post-Approval Site Inspection for License Renewal (6 Samples)

- (1) Flow-Accelerated Corrosion
- (2) Buried Piping and Tanks Inspection
- (3) Inaccessible Medium-Voltage Cables not Subject to 10 CFR 50.49 Equipment Qualification Requirements
- (4) Periodic Surveillance and Preventative Maintenance
- (5) ASME Section XI, Subsection IWE & IWL Inservice Inspection
- (6) Structures Monitoring

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 22, 2019, the team conducted an exit meeting and presented the inspection results to Mr. Paul Swift, Plant Manager and other members of the licensee staff.

DOCUMENTS REVIEWEDCompleted Tests

M-15.10, 1A or 1B EDG Underground Fuel Oil Storage Tank Leak Tightness Testing, performed
5/24/18 and 7/27/18

M-15.1P, A or B Diesel Generator Fuel Oil System Inspection and Maintenance, performed
10/5/10 and 11/12/10

Corrective Action Documents

01701480	02530472	04197672	2011-001543
01929169	02576330	04214674	2011-001544
01947095	02617311	04218210	2011-002037
02327025	02631315	04228497	2011-002932
02331893	02634324	2007-004949	2011-003069
02333633	04003135	2009-007043	
02441684	04035603	2011-000463	
02530386	04164593	2011-001542	

Drawings

33013-2112, Plant Arrangement Turbine Building Plan – Basement Floor, Revision 0

33013-2539, AC System Plant Load Distribution One Line Wiring Diagram, Revision 30

Miscellaneous

Buried Pipe Cathodic Protection Performance Indicators, Annual Report, January 2019

ECP-15-000715, Technical Evaluation, dated 1/7/16

FAC Program Performance Indicators, Annual Report, January 2019

GA-N1059-501, Final Report for Ginna Nuclear Power Plant 2010 Containment Building Tendon
Surveillance, Revision 0

GNP010-C-1, Reactor Building Slab Analysis, Revision 1

ISR NL-2007-000081-017, Cast Iron – Raw Water Drainage, Revision 0

ISR NL-2007-000081-020, Carbon Low Alloy Steel – Raw Water, Revision 0

ISR NL-2007-000081-021, Carbon Low Alloy Steel – Treated Water Other, Revision 0

ISR NL-2007-000081-019, Carbon Low Alloy Steel – Air and Gas >140F & <140F (Wetted),
Revision 0

LRAM-ELECTPAS, License Renewal Aging Management Review Report for Electrical/I&C
Components, Revision 0

RE Ginna Updated Final Safety Analysis Report Chapter 18 - Supplement for License Renewal,
Revision 19

Reactor Cavity Leakage Walkdown Notes, 5/3/11

REP-1125-510, Suburban Laboratories, Inc. Analyses of Unit 1 Tendon Grease Samples
dated 5/27/16

Work Orders

C20705037	C92099897	C93217152	C93620777
C20805914	C92099962	C93225184	C93624469
C90672977	C92507446	C93243561	C93634366
C90679533	C92594624	C93266300	C93635952
C91467532	C92784945	C93411926	
C91468358	C92846392	C93619409	
C92072823	C92999194	C93619722	

Procedures

EP-2-P-0169, Structural Assessment and Monitoring Program, Revision 19
EP-VT-113, Visual Examination of Class CC Concrete Components (IWL), Revision 00101
ER-AA-310, Implementation of the Maintenance Rule, Revision 12
ER-AA-335-018, Visual Examination of ASME IWE Class MC and Metallic Liners of IWL
Class CC Components, Revision 13
ER-AA-430, Conduct of Flow Accelerated Corrosion Activities, Revision 7
ER-AA-430-1001, Guidelines for Flow Accelerated Corrosion Activities, Revision 11
ER-AA-450, Structures Monitoring, Revision 7
ER-AA-5400, Underground (Buried) Piping and Raw Water Integrity Management Programs
Guide, Revision 11
LR-BTNK-PROGPLAN, Ginna Station License Renewal Project Buried Piping and Tanks
Inspection Program, Revision 5
LR-FAC-PROGPLAN, Ginna Station License Renewal Project Flow Accelerated Corrosion
Program, Revision 3
LR-IMVC-PROGPLAN, Inaccessible Medium Voltage Cables Not Subject to 10 CFR 50.49
Environmental Qualification Requirements [XI.E3], Revision 3
LR-IWEL-PROGPLAN, ASME Section XI, Subsections IWE & IWL Inservice Inspection,
Revision 5
LR-OTI-PROGPLAN, One-Time Inspection Program, Revision 6
LR-PSPM-PROGPLAN, Periodic Surveillance and Preventive Maintenance Program, Revision 7
LR-STRM-PROGPLAN, Structures Monitoring Program, Revision 7
LR-SYSN-PROGRAM, Systems Monitoring Program, Revision 5
STP-O-22.1, Local Leak Rate Testing of Equipment Hatch Door Seal, Revision 00202
STP-O-27.2, Tendon Surveillance Program, Revision 00400