



Exelon Generation®

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10 CFR 50.71(e)  
10 CFR 54.37(b)

November 14, 2017

U. S. Nuclear Regulatory Commission  
Attn: Document Control Desk  
Washington, DC 20555-0001

R.E. Ginna Nuclear Power Plant  
Renewed Facility Operating License No. DPR-18  
NRC Docket No. 50-244

Subject: Updated Final Safety Analysis Report (UFSAR) Revision 27  
Fire Protection Program (FPP) Revision 14  
10 CFR 54.37(b) Aging Management Review  
Technical Specification Bases Changes, Revision 82

In accordance with 10 CFR 50.71(e) and 10 CFR 50.4(b)(6), enclosed is Revision 27 of the Updated Final Safety Analysis Report (UFSAR) and Revision 14 of the Fire Protection Program (FPP) for the R.E. Ginna Nuclear Power Plant (Ginna) (Enclosure 1). The enclosed UFSAR Revision 27 and FPP Revision 14 are being provided to the NRC in electronic format on CD-ROM and are being submitted in their entirety, constituting a total replacement copy. Additionally, Enclosure 2 contains supporting reference drawings for Revision 27 of the UFSAR in electronic format on CD-ROM.

10 CFR 50.71(e)(4) stipulates subsequent revisions must be filed annually or 6 months after each refueling outage, provided the interval between successive updates does not exceed 24 months, and the revisions must reflect all changes up to a maximum of 6 months prior to the date of filing. Revision 27 of the UFSAR incorporates applicable changes for the required updating period. The previous revision (i.e., Revision 26) of the Ginna UFSAR and Revision 12 of the FPP was submitted on May 5, 2016.

Attachment 1 provides a summary of the changes incorporated into UFSAR Revision 27 and FPP Revision 14. Attachment 2 includes file directory structure information identifying directory path, filename, and size of the individual files on the enclosed CD-ROMs.

In accordance with Technical Specification 5.5.13, Technical Specification Bases Control Program, Ginna's Technical Specifications Bases, Revision 82, is enclosed in Enclosure 3 and incorporates changes made since May 5, 2016. Change bars indicate revisions to information which have been incorporated in the Bases pursuant to commission requirements.

A053  
A006  
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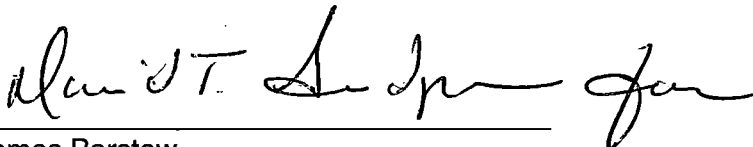
Submittal of Rev. 27 to the UFSAR,  
10 CFR 54.37(b) Aging Management Review,  
and Bases Changes  
November 14, 2017  
Page 2

In addition, pursuant to the requirements of 10 CFR 54.37(b) and the guidance specified in Regulatory Issue Summary 2007-16, Revision 1, "Implementation of the Requirements of 10 CFR 54.37(b) for Holders of Renewed Licenses," the UFSAR update required by 10 CFR 50.71(e) must include any Structures, Systems, or Components (SSCs) newly identified that would have been subject to an aging management review or evaluation of time-limited aging analyses in accordance with 10 CFR 54.21. The UFSAR update must describe how the licensee will manage the effects of aging in order to effectively maintain the intended function(s) of newly-identified SSCs. An evaluation was completed to determine whether any newly-identified SSCs existed in support of submitting UFSAR Revision 27 for Ginna. As a result of this evaluation, there were no newly identified SSCs for which aging management reviews or time-limited aging analyses would apply.

Should you have any questions concerning this letter, please contact Tom Loomis at (610) 765-5510.

I declare under penalty of perjury that the foregoing is true and correct. Executed on the 14<sup>th</sup> day of November 2017.

Respectfully,



James Barstow  
Director - Licensing & Regulatory Affairs  
Exelon Generation Company, LLC

Attachments: (1) Summary of Changes, Revision 27  
(2) Electronic File Directory, UFSAR Revision 27

Enclosures: (1) CD-ROM, Ginna UFSAR, Revision 27 and  
Fire Protection Program, Revision 14  
(2) CD-ROM, Ginna Reference Drawings  
(3) CD-ROM, Technical Specification Bases, Revision 82

cc: NRC Regional Administrator, Region I  
NRC Senior Resident Inspector, Ginna  
NRC Project Manager – NRR  
A. L. Peterson, NYSERDA

## **ATTACHMENT 1**

### **Summary of Changes – UFSAR Revision 27**

#### **R.E. Ginna Nuclear Power Plant**

#### **Renewed Facility Operating License No. DPR-18**

10 CFR 50.71(e)(2)(ii) requires that revisions to the UFSAR include changes made under the provisions of 10 CFR 50.59. Accordingly, the list below identifies plant changes included in Revision 27 of the R. E. Ginna Nuclear Power Plant Final Safety Analysis Report (Updated).

<b><u>Change No.</u></b>	<b><u>Description</u></b>
026.01	This revision to Section 13.2.2.3 removes specific retraining frequency requirements.
026.02	This change revises Sections 9.1.3.2.2 and 9.1.3.4.2 concerning the spent fuel pool siphon breaker modification.
026.03	This change revises the Control Building Description (Section 3.8.4.1.2).
026.04	This change revises the description of the calibration and testing frequency of agastat timing relays (Section 8.3.1.2.4.3).
026.05	This change revises reference errors in Sections 9.5, 13.1.3.7.2, 13.2.2.2, 13.4.1, 13.4.2, 13.4.3.1, 13.4.3.2, and 17.2.
026.06	This change corrects a typo in the R-48 upper range value in Table 7.5-1.
026.07	This change updates the Ginna FSAR for a new RWAP analysis (Sections 15.4.2, Table 15.0-2, Figures 15.4-20 and 15.4-21).
026.08	These changes are associated with a modification adding Safety Injection test line isolation valves and a relief valve (Sections 6.2.4.4.2.2, 6.3.2.2.7.1, and Figure 6.2-15).
026.09	Update Table 8.3-4, "Major Battery Loads," for the newly calculated Inverter/Auxiliary load values and revise Reference 27 of Chapter 8.
026.10	This change deleted obsolete system descriptions in Sections 2.2.2.6.1, 9.1.2.2.1, 9.2.3, and 10.7.7.1.2 and points instead to the current GE Betz water treatment system.
026.11	This change revises the discussion regarding the operation of vacuum priming system (Section 10.7.6.3)
026.12	This change makes minor editorial corrections to Section 4.2.3.2 to allow the use of older, standard RCCA designs in 422V+ fuel.
026.13	This change adds a description of the fire water piping seismic classification to Section 9.5.1.2.3.3.
026.14	This change corrects the description of the Closed Cooling Water surge tank level indication systems.
026.15	These changes are associated with improvements at the intake structure to mitigate frazil ice.

## **ATTACHMENT 1**

### **Summary of Changes – UFSAR Revision 27**

#### **R.E. Ginna Nuclear Power Plant**

#### **Renewed Facility Operating License No. DPR-18**

<b><u>Change No.</u></b>	<b><u>Description</u></b>
026.16	These changes are associated with modification of the high pressure and low pressure turbine valve testing frequency.
026.17	These changes to 15.0.9.2 incorporate a revised operator response time procedure which summarizes operator action times assumed in Chapter 15.
026.18	This change to 1.8.2.32 changes the references regarding the testing of the charcoal filter trays to the Ventilation Filter Test Program (ITS 5.5.10).
026.19	This change updates a reference in Chapter 8 regarding Design Analysis DA-EE-97-069, Sizing of Vital Batteries A and B, to Revision 8, dated July 10, 2017.
026.20	These changes to Section 9.3.4.4.9.4 are associated with the license amendment change (TSTF-490) to delete E-Bar and add dose equivalent xenon.
026.21	This change revises Section 6.3.5.2 and Section Note (a) of Table 15.6-17 concerning the acceptable limits of performance applied to the Residual Heat Removal pumps.
026.22	This change is associated with the spent fuel pool criticality update.
026.23	This change corrects dose figures based on past EPU changes.
026.24	This change updates the UFSAR to include a new locked rotor rods-in-DNB analysis.
026.25	This change added Safety Injection test line relief valve 893 and associated isolation valves.
FPPRCN-2016-0006	This change reflects revisions resulting from the replacement of the diesel fire pump control panel per ECP-16-000342.
FPPRCN-2016-0007	This change is an editorial correction only. It corrected the location of the portable fire extinguishers for fire zone SH-1 (Screen House building basement). The wrong location, Operating Floor, was incorrectly copied from a previous section.
FPPRCN-2016-0008	This change adds a description of the cable tunnel deluge system design and adds an enhanced description of the use of code editions when modifications to existing systems/components are performed.
FPPRCN-2017-0001	This change reflects the output of A11014-C-001 Rev. 1 which was issued under ECP-16-000608. The update reflects that the S/G pressure is below the target pressure (260 psig) for TDAFW operability for 18 minutes instead of the previously stated 6 minutes, prior to S/G pressure recovery.

**ATTACHMENT 2**

Electronic File Directory

UFSAR Revision 27, FPP Revision 14,

and Reference Drawings

R.E. Ginna Nuclear Power Plant

Renewed Facility Operating License No. DPR-18

(Page 1 of 4)

dirpath	fname	size
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d:\01 Ch 01-Introduction & General Description of the Plant	GIN Chapter 01 Figures.pdf.pdf	331,910
d:\02 Chapter 02 - Site Characteristics	GIN Chapter 02 (001) Table of Contents.pdf	322,680
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d:\02 Chapter 02 - Site Characteristics	GIN Chapter 02 Appendix B Figures.pdf.pdf	11,704,521
d:\02 Chapter 02 - Site Characteristics	GIN Chapter 02 Appendix C Figures.pdf.pdf	2,135,107
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d:\03 Ch 03-Design of Structs, Compnts, Equipment, & Systems	GIN Chapter 03 (001) Table of Contents.pdf	536,472
d:\03 Ch 03-Design of Structs, Compnts, Equipment, & Systems	GIN Chapter 03 (002) Sections 3.1 thru 3.7.pdf	2,785,888
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d:\04 Chapter 04 - Reactor	GIN Chapter 04 (002) Sections 4.1 thru 4.6.pdf	949,428
d:\04 Chapter 04 - Reactor	GIN Chapter 04 Figures.pdf.pdf	2,350,305
d:\05 Ch 05-Reactor Coolant & Connected Systems	GIN Chapter 05 (001) Table of Contents.pdf	256,301
d:\05 Ch 05-Reactor Coolant & Connected Systems	GIN Chapter 05 (002) Section 5.1 thru 5.8.pdf	1,772,230
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d:\07 Chapter 07-Instrumentation & Control	GIN Chapter 07 (001) Table of Contents.pdf	257,601
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d:\08 Chapter 08 - Electric Power	GIN Chapter 08 (001) Table of Contents.pdf	202,506
d:\08 Chapter 08 - Electric Power	GIN Chapter 08 (002) Sections 8.1 thru 8.3.pdf	997,813
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d:\09 Chapter 09 - Auxiliary Systems	GIN Chapter 09 (001) Table of Contents.pdf	111,102
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d:\11 Chapt 11-Radioactive Waste Management	GIN Chapter 11 (001) Table of Contents.pdf	220,688
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d:\12 Chapter 12 - Radiation Protection	GIN Chapter 12 (002) Sections 12.1 thru 12.5.pdf	737,252
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d:\13 Chapter 13 - Conduct of Operations	GIN Chapter 13 (001) Table of Contents.pdf	177,584
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d:\15 Chapter 15 - Accident Analyses	GIN Chapter 15 (001) Table of Contents.pdf	437,828
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d:\16 Chapter 17 - Quality Assurance	GIN Chapter 17 (001) Table of Contents.pdf	177,645
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dirpath	fname	size
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d:\FHAR	Fire Protection Program Rev 14.pdf.pdf	10,488,097

d:\01 TABLE OF CONTENT	01TOC.pdf	207,815
d:\02 Ginna Reference Drawings	Electrical Drawings.pdf	5,152,599
d:\02 Ginna Reference Drawings	Mechanical Drawings.pdf	47,490,622

**ENCLOSURE 1**

CD-ROM, UFSAR Revision 27 and FPP Revision 14

R.E. Ginna Nuclear Power Plant

Renewed Facility Operating License No. DPR-18

**ENCLOSURE 2**

CD-ROM, Reference Drawings

R.E. Ginna Nuclear Power Plant

Renewed Facility Operating License No. DPR-18

**ENCLOSURE 3**

CD-ROM, Technical Specification Bases – Revision 82

R.E. Ginna Nuclear Power Plant

Renewed Facility Operating License No. DPR-18