



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

March 17, 2016

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: CALVERT CLIFFS NUCLEAR POWER PLANT, UNITS 1 AND 2; CALVERT CLIFFS INDEPENDENT SPENT FUEL STORAGE INSTALLATION; NINE MILE POINT NUCLEAR STATION, UNITS 1 AND 2; AND R. E. GINNA NUCLEAR POWER PLANT – ISSUANCE OF AMENDMENTS REGARDING EMERGENCY PLAN REQUALIFICATION TRAINING FREQUENCY FOR EMERGENCY RESPONSE ORGANIZATION PERSONNEL (CAC NOS. MF6541, MF6542, MF6543, MF6544, AND MF6545)

Dear Mr. Hanson:

The Commission has issued the enclosed Amendment No. 316 to Renewed Facility Operating License No. DPR-53 and Amendment No. 294 to Renewed Facility Operating License No. DPR-69 for the Calvert Cliffs Nuclear Power Plant, Units 1 and 2, respectively; Amendment No. 221 to Renewed Facility Operating License No. DPR-63 and Amendment No. 155 to Renewed Facility Operating License No. NPF-69 for the Nine Mile Point Nuclear Station, Units 1 and 2, respectively; and Amendment No. 121 to Renewed Facility Operating License No. DPR-18 for the R. E. Ginna Nuclear Power Plant.

The amendments are in response to your application dated July 29, 2015, as supplemented by letter dated November 4, 2015 (Agencywide Documents Access and Management System Accession Nos. ML15210A314 and ML15309A131, respectively).

In your July 29, 2015 license amendment request, you requested to revise the Emergency Plan requalification training frequency for emergency response organization personnel at Calvert Cliffs Nuclear Power Plant, Units 1 and 2, Calvert Cliffs Independent Spent Fuel Storage Installation (ISFSI), Nine Mile Point Nuclear Station, Units 1 and 2, and R. E. Ginna Nuclear Power Plant. The Calvert Cliffs ISFSI, which has a site-specific license, is included in the emergency plan for the Calvert Cliffs Nuclear Power Plant. Accordingly, changes to the Calvert Cliffs ISFSI emergency plan are properly addressed by an amendment request for the plant, and a separate amendment to the Calvert Cliffs ISFSI Materials License is not required. Whereas, R. E. Ginna Nuclear Power Plant and Nine Mile Point Nuclear Station, Units 1 and 2 ISFSI's are covered under a general license.

B. Hanson

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A copy of our safety evaluation is also enclosed. Notice of Issuance will be included in the Commission's biweekly *Federal Register* notice.

Sincerely,

A handwritten signature in black ink, appearing to read 'Blake A. Purnell', written in a cursive style.

Blake A. Purnell, Project Manager
Plant Licensing Branch III-2
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

Docket Nos. 50-317, 50-318, 50-220, 50-410,
50-244, 72-8, 72-1036, and 72-67

Enclosures:

1. Amendment No. 316 to DPR-53
2. Amendment No. 294 to DPR-69
3. Amendment No. 221 to DPR-63
4. Amendment No. 155 to NPF-69
5. Amendment No. 121 to DPR-18
6. Safety Evaluation

cc: Listserv



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

EXELON GENERATION COMPANY, LLC

DOCKET NO. 50-317

CALVERT CLIFFS NUCLEAR POWER PLANT, UNIT 1

AMENDMENT TO RENEWED FACILITY OPERATING LICENSE

Amendment No. 316
Renewed License No. DPR-53

1. The U.S. Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment by Exelon Generation Company, LLC (the licensee) dated July 29, 2015, as supplemented by letter dated November 4, 2015, complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act) and the Commission's rules and regulations set forth in 10 CFR Chapter I;
 - B. The facility will operate in conformity with the application, the provisions of the Act, and the rules and regulations of the Commission;
 - C. There is reasonable assurance (i) that the activities authorized by this amendment can be conducted without endangering the health and safety of the public, and (ii) that such activities will be conducted in compliance with the Commission's regulations;
 - D. The issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public; and
 - E. The issuance of this amendment is in accordance with 10 CFR Part 51 of the Commission's regulations and all applicable requirements have been satisfied.

2. Accordingly, by Amendment No. 316 , Renewed Facility Operating License No. DPR-53 is hereby amended to authorize revision to the emergency response plan as set forth in the licensee's application dated July 29, 2015, as supplemented by letter dated November 4, 2015, and evaluated in the NRC staff's safety evaluation for this amendment.
3. This license amendment is effective as of the date of its issuance and shall be implemented within 90 days of the date of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION

A handwritten signature in black ink, appearing to read 'W. M. Dean', with a long horizontal flourish extending to the right.

William M. Dean, Director
Office of Nuclear Reactor Regulation

Date of Issuance: ~~March~~ 17, 2016



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

EXELON GENERATION COMPANY, LLC

DOCKET NO. 50-318

CALVERT CLIFFS NUCLEAR POWER PLANT, UNIT 2


AMENDMENT TO RENEWED FACILITY OPERATING LICENSE

Amendment No. 294
Renewed License No. DPR-69

1. The U.S. Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment by Exelon Generation Company, LLC (the licensee) dated July 29, 2015, as supplemented by letter dated November 4, 2015, complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act) and the Commission's rules and regulations set forth in 10 CFR Chapter I;
 - B. The facility will operate in conformity with the application, the provisions of the Act, and the rules and regulations of the Commission;
 - C. There is reasonable assurance (i) that the activities authorized by this amendment can be conducted without endangering the health and safety of the public, and (ii) that such activities will be conducted in compliance with the Commission's regulations;
 - D. The issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public; and
 - E. The issuance of this amendment is in accordance with 10 CFR Part 51 of the Commission's regulations and all applicable requirements have been satisfied.

2. Accordingly, by Amendment No. 294 , Renewed Facility Operating License No. DPR-69 is hereby amended to authorize revision to the emergency response plan as set forth in the licensee's application dated July 29, 2015, as supplemented by letter dated November 4, 2015, and evaluated in the NRC staff's safety evaluation for this amendment.
3. This license amendment is effective as of the date of its issuance and shall be implemented within 90 days of the date of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION



William M. Dean, Director
Office of Nuclear Reactor Regulation

Date of Issuance: March 17, 2016



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

EXELON GENERATION COMPANY, LLC

DOCKET NO. 50-220

NINE MILE POINT NUCLEAR STATION, UNIT 1

AMENDMENT TO RENEWED FACILITY OPERATING LICENSE

Amendment No. 221
Renewed License No. DPR-63

1. The U.S. Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment by Exelon Generation Company, LLC (the licensee) dated July 29, 2015, as supplemented by letter dated November 4, 2015, complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act) and the Commission's rules and regulations set forth in 10 CFR Chapter I;
 - B. The facility will operate in conformity with the application, the provisions of the Act, and the rules and regulations of the Commission;
 - C. There is reasonable assurance (i) that the activities authorized by this amendment can be conducted without endangering the health and safety of the public, and (ii) that such activities will be conducted in compliance with the Commission's regulations;
 - D. The issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public; and
 - E. The issuance of this amendment is in accordance with 10 CFR Part 51 of the Commission's regulations and all applicable requirements have been satisfied.

2. Accordingly, by Amendment No. 221 , Renewed Facility Operating License No. DPR-63 is hereby amended to authorize revision to the site emergency plan as set forth in the licensee's application dated July 29, 2015, as supplemented by letter dated November 4, 2015, and evaluated in the NRC staff's safety evaluation for this amendment.
3. This license amendment is effective as of the date of its issuance and shall be implemented within 90 days of the date of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION

A handwritten signature in black ink, appearing to read 'W M Dean', with a long horizontal flourish extending to the right.

William M. Dean, Director
Office of Nuclear Reactor Regulation

Date of Issuance: ~~March~~ 17, 2016



UNITED STATES
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EXELON GENERATION COMPANY, LLC

DOCKET NO. 50-410

NINE MILE POINT NUCLEAR STATION, UNIT 2

AMENDMENT TO RENEWED FACILITY OPERATING LICENSE

Amendment No. 155
Renewed License No. NPF-69

1. The U.S. Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment by Exelon Generation Company, LLC (the licensee) dated July 29, 2015, as supplemented by letter dated November 4, 2015, complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act) and the Commission's rules and regulations set forth in 10 CFR Chapter I;
 - B. The facility will operate in conformity with the application, the provisions of the Act, and the rules and regulations of the Commission;
 - C. There is reasonable assurance (i) that the activities authorized by this amendment can be conducted without endangering the health and safety of the public, and (ii) that such activities will be conducted in compliance with the Commission's regulations;
 - D. The issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public; and
 - E. The issuance of this amendment is in accordance with 10 CFR Part 51 of the Commission's regulations and all applicable requirements have been satisfied.

2. Accordingly, by Amendment No. 155 , Renewed Facility Operating License No. NPF-69 is hereby amended to authorize revision to the site emergency plan as set forth in the licensee's application dated July 29, 2015, as supplemented by letter dated November 4, 2015, and evaluated in the NRC staff's safety evaluation for this amendment.
3. This license amendment is effective as of the date of its issuance and shall be implemented within 90 days of the date of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION

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William M. Dean, Director
Office of Nuclear Reactor Regulation

Date of Issuance: ~~March~~ 17, 2016



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

EXELON GENERATION COMPANY, LLC

DOCKET NO. 50-244

R. E. GINNA NUCLEAR POWER PLANT

AMENDMENT TO RENEWED FACILITY OPERATING LICENSE

Amendment No. 121
Renewed License No. DPR-18

1. The U.S. Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment by Exelon Generation Company, LLC (the licensee) dated July 29, 2015, as supplemented by letter dated November 4, 2015, complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act) and the Commission's rules and regulations set forth in 10 CFR Chapter I;
 - B. The facility will operate in conformity with the application, the provisions of the Act, and the rules and regulations of the Commission;
 - C. There is reasonable assurance (i) that the activities authorized by this amendment can be conducted without endangering the health and safety of the public, and (ii) that such activities will be conducted in compliance with the Commission's regulations;
 - D. The issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public; and
 - E. The issuance of this amendment is in accordance with 10 CFR Part 51 of the Commission's regulations and all applicable requirements have been satisfied.

2. Accordingly, by Amendment No. 121 , Renewed Facility Operating License No. DPR-18 is hereby amended to authorize revision to the nuclear emergency response plan as set forth in the licensee's application dated July 29, 2015, as supplemented by letter dated November 4, 2015, and evaluated in the NRC staff's safety evaluation for this amendment.
3. This license amendment is effective as of the date of its issuance and shall be implemented within 90 days of the date of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION

A handwritten signature in black ink, appearing to read 'W M Dean', with a long horizontal flourish extending to the right.

William M. Dean, Director
Office of Nuclear Reactor Regulation

Date of Issuance: ~~March~~ 17, 2016



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION

RELATED TO

AMENDMENT NO. 316 TO RENEWED FACILITY OPERATING LICENSE NO. DPR-53

AMENDMENT NO. 294 TO RENEWED FACILITY OPERATING LICENSE NO. DPR-69

AMENDMENT NO. 221 TO RENEWED FACILITY OPERATING LICENSE NO. DPR-63

AMENDMENT NO. 155 TO RENEWED FACILITY OPERATING LICENSE NO. NPF-69

AMENDMENT NO. 121 TO RENEWED FACILITY OPERATING LICENSE NO. DPR-18

EXELON GENERATION COMPANY, LLC

CALVERT CLIFFS NUCLEAR POWER PLANT, UNITS 1 AND 2

NINE MILE POINT NUCLEAR STATION, UNITS 1 AND 2

R. E. GINNA NUCLEAR POWER PLANT

DOCKET NOS. 50-317, 50-318, 50-220, 50-410, 50-244, 72-8, 72-1036, AND 72-67

1.0 INTRODUCTION

By application dated July 29, 2015, as supplemented by letter dated November 4, 2015 (Agencywide Documents Access and Management System (ADAMS) Accession Nos. ML15210A314 and ML15309A131, respectively), Exelon Generation Company, LLC (Exelon, the licensee) submitted a license amendment request for the Calvert Cliffs Nuclear Power Plant, Units 1 and 2, Nine Mile Point Nuclear Station, Units 1 and 2, and R. E. Ginna Nuclear Power Plant. The proposed amendment would revise the emergency plan requalification training frequency for emergency response organization (ERO) personnel, consistent with emergency plans throughout the Exelon fleet.

The Calvert Cliffs Independent Spent Fuel Storage Installation (ISFSI) is included in the emergency plan for the Calvert Cliffs Nuclear Power Plant. Accordingly, changes to the emergency plan are properly addressed by an amendment request for the plant, and a separate amendment to the Calvert Cliffs ISFSI Materials License is not required.

2.0 REGULATORY EVALUATION

The applicable regulations and guidance for the emergency plans are as follows:

2.1 Regulations

The regulations in Title 10 of the *Code of Federal Regulations* (10 CFR), Section 50.54(q)(2), state, in part, as a condition in every nuclear power reactor operating license, that:

A holder of a license under this part ... shall follow and maintain the effectiveness of an emergency plan that meets the requirements in appendix E to this part and, for nuclear power reactors licensees, the planning standards of [10 CFR] § 50.47(b).

The regulations in 10 CFR 50.47, "Emergency plans," set forth emergency plan requirements for nuclear power plant facilities. The regulations in 10 CFR 50.47(a)(1)(i) state, in part, that:

... no initial operating license for a nuclear power reactor will be issued unless a finding is made by the NRC that there is reasonable assurance that adequate protective measures can and will be taken in the event of a radiological emergency.

The regulations in 10 CFR 50.47(b) provide standards to ensure that nuclear power reactor licensees have emergency response plans that provide reasonable assurance that adequate protective measures will be taken in the event of an emergency at a nuclear power reactor.

The following regulatory requirements are applicable to the license amendment request:

- 10 CFR 50.47(b)(15), which states that, "Radiological emergency response training is provided to those who may be called on to assist in an emergency."
- 10 CFR Part 50, Appendix E, "Emergency Planning and Preparedness for Production and Utilization Facilities," Section IV.F.1, which states, in part, that:

The program to provide for: (a) The training of employees and exercising, by periodic drills, of emergency plans to ensure that employees of the licensee are familiar with their specific emergency response duties, and (b) The participation in the training and drills by other persons whose assistance may be needed in the event of a radiological emergency shall be described. This shall include a description of specialized initial training and periodic retraining programs to be provided

2.2 Guidance

Section II.O.5 of NUREG-0654/FEMA-REP-1, Revision 1, "Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants," dated November 1980 (ADAMS Accession No. ML040420012), states:

Each organization shall provide for the initial and annual retraining of personnel with emergency response responsibilities.

3.0 TECHNICAL EVALUATION

In its amendment application, Exelon requested NRC prior approval to revise the description of its ERO requalification training frequency from annually to “once per calendar year not to exceed 18 months between training sessions.” This change would establish a common ERO requalification training frequency for Exelon personnel assigned to ERO positions and align the requalification training frequency across the Exelon fleet.

This language meets the intent of Exelon to establish consistency in training cycles, while allowing some flexibility in scheduling requalification training. The NRC staff's expectation regarding ERO requalification training periodicity is maintained by ensuring that 18 months is the longest period of time that can elapse between ERO requalification training cycles, but that requalification will be conducted once per calendar year. Furthermore, the revision to the annual training frequency is unrelated to the requirements to conduct an emergency response exercise every 2 years and the ERO staff will continue to participate in biennial exercises. Therefore, the NRC staff has determined that the licensee's request meets the requirements of 10 CFR 50.47(b)(15) and 10 CFR Part 50, Appendix E, Section IV.F, and the guidance provided in NUREG-0654/FEMA-REP-1, Revision 1.

Based on the above, the NRC staff concludes that the proposed revision to the definition of requalification training frequency from annually to “once per calendar year not to exceed 18 months between training sessions” provides reasonable assurance that the licensee can and will take adequate protective measures in the event of a radiological emergency.

4.0 STATE CONSULTATION

In accordance with the Commission's regulations, the Maryland and New York State officials were notified of the proposed issuance of the amendment. The State officials had no comments.

5.0 ENVIRONMENTAL CONSIDERATION

The amendments change the requirements with respect to how the emergency plan annual training requirements are administered. As such, the amendments relate to recordkeeping, reporting, or administrative procedures or requirements. Accordingly, the amendments meet the eligibility criteria for categorical exclusion set forth in 10 CFR 51.22(c)(10)(ii). Pursuant to 10 CFR 51.22(b), no environmental impact statement or environmental assessment need be prepared in connection with the issuance of the amendments.

6.0 CONCLUSION

The Commission has concluded, based on the considerations discussed above, that: (1) there is reasonable assurance that the health and safety of the public will not be endangered by operation in the proposed manner, (2) there is reasonable assurance that such activities will be

conducted in compliance with the Commission's regulations, and (3) the issuance of the amendment will not be inimical to the common defense and security or to the health and safety of the public.

Principal Contributor: Don Johnson, NSIR

Date of Issuance: ~~March~~ 17, 2016

B. Hanson

- 2 -

A copy of our safety evaluation is also enclosed. Notice of Issuance will be included in the Commission's biweekly *Federal Register* notice.

Sincerely,

/RA/

Blake A. Purnell, Project Manager
Plant Licensing Branch III-2
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

Docket Nos. 50-317, 50-318, 50-220, 50-410,
50-244, 72-8, 72-1036, and 72-67

Enclosures:

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2. Amendment No. 294 to DPR-69
3. Amendment No. 221 to DPR-63
4. Amendment No. 155 to NPF-69
5. Amendment No. 121 to DPR-18
6. Safety Evaluation

cc w/enclosures: Distribution via Listserv

DISTRIBUTION:

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RidsNrrDorlLpl1-1 Resource
RidsNrrPMCalvertCliffs Resource
RidsNrrPMREGinna Resource
RidsACRS_MailCTR Resource
RidsNsirDpr Resource
RecordsAmend
DJohnson, NSIR
RidsNrrOd Resource

ADAMS Accession No.: ML15352A164

*by e-mail

OFFICE	DORL/LPLIII-2/PM	DORL/LPLIII-2/PM	DORL/LPLIII-2/LA	NSIR/BC*	NMSS/DSFM/SFLB/BC(A)
NAME	JHauser	BPurnell	SRohrer (SFigueroa for)	JAnderson	SRuffin (BWhite for)
DATE	12/28/2015	2/1/2016	12/22/2015	1/11/2016	2/9/2016
OFFICE	OGC	DORL/LPLIII-2/BC(A)	DORL/DD(A)	NRR/OD	DORL/LPLIII-2/PM
NAME	JWachutka	JPoole	PKrohn	WDean	BPurnell
DATE	2/16/2016	3/1/2016	3/4/2016	3/16/2016	3/17/2016

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