

December 24, 2014

Mr. Michael J. Pacilio Senior Vice President Exelon Generation Company, LLC President and Chief Nuclear Officer Exelon Nuclear 4300 Winfield Road Warrenville, IL 60555

SUBJECT: LIMERICK GENERATING STATION, UNITS 1 AND 2; OYSTER CREEK NUCLEAR GENERATING STATION; PEACH BOTTOM ATOMIC POWER STATION, UNITS 1, 2 AND 3; AND THREE MILE ISLAND NUCLEAR STATION, UNITS 1 AND 2 - ISSUANCE OF AMENDMENTS REGARDING THE EMERGENCY PLAN DEFINITION OF ANNUAL TRAINING (TAC NOS. MF3003, MF3004, MF3005, MF3006, MF3007, MF3008, MF3009 AND MF3010)

Dear Mr. Pacilio:

The U.S. Nuclear Regulatory Commission has issued the enclosed Amendment No. 212 to Renewed Facility Operating License No. NPF-39 and Amendment No. 173 to Renewed Facility Operating License No. NPF-85 for the Limerick Generating Station, Units 1 and 2, respectively, and Amendment No. 283 to Renewed Facility Operating License No. DPR-16 for the Oyster Creek Nuclear Generating Station, and Amendment No. 12 to Facility Operating (Possession Only) License No. DPR-12 for the Peach Bottom Atomic Power Station, Unit 1, and Amendment No. 294 to Renewed Facility Operating License No. DPR-44 and Amendment No. 297 to Renewed Facility Operating License No. DPR-56 for the Peach Bottom Atomic Power Station, Units 2 and 3, respectively, and Amendment No. 283 to Renewed Facility Operating License No. DPR-50 for the Three Mile Island Nuclear Station, Unit 1.

In accordance with the Possession-Only License No. DPR-73 Post-Defueling Monitored Storage Safety Analysis Report for the Three Mile Island Nuclear Station, Unit 2, the emergency plan is accommodated by the Unit 1 plan. Therefore, an amendment to the Unit 2 license is not required.

The amendments are in response to your application dated October 30, 2013 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML13304B168), as supplemented by letter dated June 13, 2014 (ADAMS Accession No. ML14167A226).

M. Pacilio

A copy of the Safety Evaluation is also enclosed. The Notice of Issuance will be included in the Commission's biweekly *Federal Register* notice.

Sincerely,

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Joel S. Wiebe, Senior Project Manager Plant Licensing III-2 and Planning and Analysis Branch Division of Operating Reactor Licensing Office of Nuclear Reactor Regulation

Docket Nos. 50-352, 50-353, 72-65, 50-219, 72-15, 50-171, 50-277, 50-278, 72-29, 50-289, and 50-320

Enclosures:

- 1. Amendment No. 212 to NPF-39
- 2. Amendment No. 173 to NPF-85
- 3. Amendment No. 283 to DPR-16
- 4. Amendment No. 12 to DPR-12
- 5. Amendment No. 294 to DPR-44
- 6. Amendment No. 297 to DPR-56
- 7. Amendment No. 283 to DPR-50
- 8. Facility Possession-Only License to DPR-73
- 9. Safety Evaluation

cc: Listserv



EXELON GENERATION COMPANY, LLC

DOCKET NO. 50-352

LIMERICK GENERATING STATION, UNIT 1

AMENDMENT TO RENEWED FACILITY OPERATING LICENSE

Amendment No. 212 Renewed License No. NPF-39

- 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 October 30, 2013, as supplemented by letter dated June 13, 2014, 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. 212, the license is amended by changes to the Emergency Plan as set forth in the licensee's application dated October 30, 2013, as supplemented by letter dated June 13, 2014, and evaluated in the NRC staff's safety evaluation for this amendment.

FOR THE NUCLEAR REGULATORY COMMISSION

William M. Dean, Director Office of Nuclear Reactor Regulation



EXELON GENERATION COMPANY, LLC

DOCKET NO. 50-353

LIMERICK GENERATING STATION, UNIT 2

AMENDMENT TO RENEWED FACILITY OPERATING LICENSE

Amendment No. 173 Renewed License No. NPF-85

- 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 October 30, 2013, as supplemented by letter dated June 13, 2014, 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. 173, the license is amended by changes to the Emergency Plan as set forth in the licensee's application dated October 30, 2013, as supplemented by letter dated June 13, 2014, and evaluated in the NRC staff's safety evaluation for this amendment.

FOR THE NUCLEAR REGULATORY COMMISSION

William M. Dean, Director Office of Nuclear Reactor Regulation



EXELON GENERATION COMPANY, LLC

DOCKET NO. 50-219

OYSTER CREEK NUCLEAR GENERATING STATION

AMENDMENT TO RENEWED FACILITY OPERATING LICENSE

Amendment No. 283 Renewed License No. DPR-16

- 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 October 30, 2013, as supplemented by letter dated June 13, 2014, 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. 283, the license is amended by changes to the Emergency Plan as set forth in the licensee's application dated October 30, 2013, as supplemented by letter dated June 13, 2014, and evaluated in the NRC staff's safety evaluation for this amendment.

FOR THE NUCLEAR REGULATORY COMMISSION

William M. Dean, Director Office of Nuclear Reactor Regulation



EXELON GENERATION COMPANY, LLC

PSEG NUCLEAR LLC

DOCKET NO. 50-171

PEACH BOTTOM ATOMIC POWER STATION, UNIT 1

AMENDMENT TO FACILITY OPERATING (POSSESSION-ONLY) LICENSE

Amendment No. 12 Possession-Only License No. DPR-12

- 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 October 30, 2013, as supplemented by letter dated June 13, 2014, 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. 12, the license is amended by changes to the Emergency Plan as set forth in the licensee's application dated October 30, 2013, as supplemented by letter dated June 13, 2014, and evaluated in the NRC staff's safety evaluation for this amendment.

FOR THE NUCLEAR REGULATORY COMMISSION

William M. Dean, Director Office of Nuclear Reactor Regulation



EXELON GENERATION COMPANY, LLC

PSEG NUCLEAR LLC

DOCKET NO. 50-277

PEACH BOTTOM ATOMIC POWER STATION, UNIT 2

AMENDMENT TO RENEWED FACILITY OPERATING LICENSE

Amendment No. 294 Renewed License No. DPR-44

- 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 October 30, 2013, as supplemented by letter dated June 13, 2014, 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, the license is amended by changes to the Emergency Plan as set forth in the licensee's application dated October 30, 2013, as supplemented by letter dated June 13, 2014, and evaluated in the NRC staff's safety evaluation for this amendment.

FOR THE NUCLEAR REGULATORY COMMISSION

William M. Dean, Director Office of Nuclear Reactor Regulation



EXELON GENERATION COMPANY, LLC

PSEG NUCLEAR LLC

DOCKET NO. 50-278

PEACH BOTTOM ATOMIC POWER STATION, UNIT 3

AMENDMENT TO RENEWED FACILITY OPERATING LICENSE

Amendment No. 297 Renewed License No. DPR-56

- 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 October 30, 2013, as supplemented by letter dated June 13, 2014, 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. 297, the license is amended by changes to the Emergency Plan as set forth in the licensee's application dated October 30, 2013, as supplemented by letter dated June 13, 2014, and evaluated in the NRC staff's safety evaluation for this amendment.

FOR THE NUCLEAR REGULATORY COMMISSION

William M. Dean, Director Office of Nuclear Reactor Regulation



EXELON GENERATION COMPANY, LLC

DOCKET NO. 50-289

THREE MILE ISLAND NUCLEAR STATION, UNIT NO. 1

AMENDMENT TO RENEWED FACILITY OPERATING LICENSE

Amendment No. 283 Renewed License No. DPR-50

- 1. The U.S. Nuclear Regulatory Commission (the Commission or NRC) has found that:
 - A. The application for amendment by Exelon Generation Company, LLC (the licensee) dated October 30, 2013, as supplemented by letter dated June 13, 2014, 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. 283, the license is amended by changes to the Emergency Plan as set forth in the licensee's application dated October 30, 2013, as supplemented by letter dated June 13, 2014, and evaluated in the NRC staff's safety evaluation for this amendment.

FOR THE NUCLEAR REGULATORY COMMISSION

William M. Dean, Director Office of Nuclear Reactor Regulation



GPU NUCLEAR, INC.

DOCKET NO. 50-320

THREE MILE ISLAND NUCLEAR STATION, UNIT NO. 2

FACILITY POSSESSION-ONLY LICENSE

Possession-Only License No. DPR-73

1. The Post-Defueling Monitored Storage (PDMS) Safety Analysis Report states, in part, that:

Due to the non-operating and defueled status of TMI-2 during PDMS, there is no potential for any significant off-site radioactive releases and, due to the existence of TMI-1 on the same site; emergency planning requirements for the site are dominated by TMI-1. Therefore, the limited emergency planning necessary to accommodate the existence of TMI-2 on the same site as TMI-1 has been incorporated into one integrated emergency plan. There exists only one Emergency Preparedness Plan for the TMI station. The Plan encompasses both TMI-1 and TMI-2 and is under the authority of Exelon Generation Company, the TMI-1 License holder.

2. Accordingly, an amendment to the Facility Possession-Only License is not necessary.

FOR THE NUCLEAR REGULATORY COMMISSION

William M. Dean, Director Office of Nuclear Reactor Regulation



SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION

RELATED TO

AMENDMENT NO. 212 TO RENEWED FACILITY OPERATING LICENSE NO. NPF-39,

AMENDMENT NO. 173 TO RENEWED FACILITY OPERATING LICENSE NO. NPF-85,

AMENDMENT NO. 283 TO RENEWED FACILITY OPERATING LICENSE NO. DPR-16,

AMENDMENT NO. 12 TO FACILITY OPERATING (POSSESSION ONLY)

LICENSE NO. DPR-12,

AMENDMENT NO. 294 TO RENEWED FACILITY OPERATING LICENSE NO. DPR-44,

AMENDMENT NO. 297 TO RENEWED FACILITY OPERATING LICENSE NO. DPR-56,

AMENDMENT NO. 283 TO RENEWED FACILITY OPERATING LICENSE NO. DPR-50,

EXELON GENERATION COMPANY, LLC

LIMERICK GENERATING STATION, UNITS 1 AND 2

OYSTER CREEK NUCLEAR GENERATING STATION

PEACH BOTTOM ATOMIC POWER STATION, UNITS 1, 2 AND 3

THREE MILE ISLAND STATION, UNITS 1 AND 2

DOCKET NOS. 50-352, 50-353, 72-65, 50-219,

72-15, 50-171, 50-277, 50-278, 72-29, 50-289, AND 50-320

1.0 INTRODUCTION

By application dated October 30, 2013 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML13304B168), as supplemented by letter dated June 13, 2014 (ADAMS Accession No. ML14167A226), Exelon Generation Company, LLC (Exelon) requested a change to the definition of "Annual Training" in the emergency plans for Limerick Generating Station, Units 1 and 2; Oyster Creek Nuclear Generating Station; Peach Bottom Atomic Power Station, Units 1, 2, and 3; and Three Mile Island Nuclear Station, Units 1 and 2. This change would make the definition consistent throughout the Exelon fleet. 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 50.47, "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 [Nuclear Regulatory Commission] that there is reasonable assurance that adequate protective measures can and will be taken in the event of a radiological emergency.

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

The following regulatory requirements are applicable:

- 10 CFR 50.47(b)(15): "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, 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...

The regulations in 10 CFR 50.54(q)(4) state, in part, that: "The changes to a licensee's emergency plan that reduce the effectiveness of the plan as defined in paragraph (q)(1)(iv) of this section may not be implemented without prior approval by the NRC."

In its application dated October 30, 2013, the licensee states that the proposed change was submitted to the NRC for approval in accordance with 10 CFR 50.54(q)(4).

2.2 <u>GUIDANCE</u>

NRC Regulatory Issue Summary 2005-02, Revision 1, "Clarifying the Process for Making Emergency Plan Changes," dated April 19, 2011 (ADAMS Accession No. ML100340545), provides guidance to licensees making changes to their emergency plans.

NUREG-0654/FEMA REP-1, Revision 1, Supplement 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), Section II.O.5 states:

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

3.0 TECHNICAL EVALUATION

In its application dated October 30, 2013, Exelon requested prior NRC approval to revise its Emergency Response Organization (ERO) training requalification cycle from: "Retraining is performed on an annual basis, which is defined as every 12-months + 3 months (25% grace period)," to "Retraining is performed on an annual basis." This would be in the site-specific annexes to the Exelon Mid-Atlantic Standard Emergency Plan. The Exelon Mid-Atlantic Standard Emergency Plan. The Exelon Mid-Atlantic on a calendar year basis."

The NRC staff had a concern that, as defined, Exelon could perform requalification training on December 31, immediately perform it again on January 1 (i.e., one day later), and not perform training again until December 31 of the following year, thus not meeting the staff's expectation that ERO requalification training be given in a training cycle that ensures that the ERO can perform their intended functions. The staff communicated this concern to Exelon via a public teleconference held on March 11, 2014. See meeting summary dated March 27, 2014 (ADAMS Accession No. ML14071A417).

In its supplement dated June 13, 2014, Exelon revised the definition of Annual Training as follows: "Retraining is performed once per year not to exceed 18-months between training sessions."

This language meets the intent of Exelon to establish consistency in training cycles, while allowing some flexibility in scheduling this training. The NRC staff's expectations 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.

Based on the licensee providing training on an annual basis, while not exceeding 18 months between training sessions, the NRC staff determined that the requirements of 10 CFR 50.47(b)(15) and 10 CFR Part 50, Appendix E, Section IV.F, as well as the guidance of NRC Regulatory Issue Summary 2005-02, Revision 1 and NUREG-0654/FEMA REP-1, Revision 1, Supplement 1, are met.

Based on the above, the NRC staff concludes that revising the definition of Annual Training from "Retraining is performed on an annual basis, which is defined as every 12-months + 3 months (25% grace period)," to "Retraining is performed once per year not to exceed 18-months between training sessions," is acceptable.

4.0 STATE CONSULTATION

In accordance with the Commission's regulations, the Pennsylvania and New Jersey 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 <u>CONCLUSION</u>

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

M. Pacilio

A copy of the Safety Evaluation is also enclosed. The Notice of Issuance will be included in the Commission's biweekly *Federal Register* notice.

Sincerely,

/**RA**/

Joel S. Wiebe, Senior Project Manager Plant Licensing III-2 and Planning and Analysis Branch Division of Operating Reactor Licensing Office of Nuclear Reactor Regulation

Docket Nos. 50-352, 50-353, 72-65, 50-219, 72-15, 50-171, 50-277, 50-278, 72-29, 50-289, and 50-320

Enclosures:

- 1. Amendment No. 212 to NPF-39
- 2. Amendment No. 173 to NPF-85
- 3. Amendment No. 283 to DPR-16
- 4. Amendment No. 12 to DPR-12
- 5. Amendment No. 294 to DPR-44
- 6. Amendment No. 297 to DPR-56
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- 8. Facility Possession-Only License to DPR-73
- 9. Safety Evaluation

cc: Listserv

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ADAMS Accession No. ML14226A940

OGC - NLO OFFICE LPL3-2/PM LPLI-2/LA NSIR/BC* NMSS/RDB/BC BHarris NAME JWiebe ABaxter JAndersen **BWatson** (BMozafari for) DATE 12/4/14 10/28/14 7/21/14 10/30/14 11/10/14 DORL/DD NRR/OD LPL3-2/PM OFFICE LPL3-2/BC NAME TTate GWilson WDean JWiebe 12/8/14 12/24/14 12/5/14 12/23/14 DATE

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*via memo