



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

May 7, 2018

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 — REGULATORY AUDIT SUMMARY FOR LICENSE AMENDMENT REQUEST TO REVISE EMERGENCY ACTION LEVEL SCHEMES (CAC NOS. MF9836–MF9840; EPID L-2017-LLA-0237)

Dear Mr. Hanson:

By application dated May 31, 2017 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML17164A149), as supplemented by letter dated January 31, 2018 (ADAMS Accession No. ML18037A653), Exelon Generation Company, LLC (Exelon, the licensee) submitted a license amendment request (LAR) for 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 amendments would revise the emergency plans by changing the emergency action level schemes for these facilities. The proposed changes are based on the Nuclear Energy Institute's (NEI's) guidance in NEI 99-01, Revision 6, "Development of Emergency Action Levels for Non-Passive Reactors," which was endorsed by the U.S. Nuclear Regulatory Commission (NRC) by letter dated March 28, 2013 (ADAMS Accession No. ML12346A463).

By letter dated July 18, 2017 (ADAMS Accession No. ML17194B082), the NRC staff informed Exelon of its plan to conduct a regulatory audit of nondocketed information to support the staff's review of the LAR. The audit was performed using an online reference portal.

The purpose of this letter is to inform Exelon that the NRC staff has completed its regulatory audit and no longer needs access to the online reference portal which was established for this LAR. A summary of the staff's audit is enclosed but the staff's review of the LAR is ongoing.

B. Hanson

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If you have any questions, please contact me by e-mail at Blake.Purnell@nrc.gov or by phone at (301) 415-1380.

Sincerely,

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

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

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

Enclosure:
Audit Summary

cc: Listserv

REGULATORY AUDIT SUMMARY

RELATED TO

LICENSE AMENDMENT REQUEST TO REVISE EMERGENCY ACTION LEVEL SCHEMES

CALVERT CLIFFS NUCLEAR POWER STATION, UNITS 1 AND 2

CALVERT CLIFFS INDEPENDENT SPENT FUEL STORAGE INSTALLATION

NINE MILE POINT NUCLEAR POWER STATION, UNITS 1 AND 2

R. E. GINNA NUCLEAR POWER PLANT

By application dated May 31, 2017 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML17164A149), as supplemented by letter dated January 31, 2018 (ADAMS Accession No. ML18037A653), Exelon Generation Company, LLC (Exelon, the licensee) submitted a license amendment request (LAR) for 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 amendments would revise the emergency plans by changing the emergency action level (EAL) schemes for these facilities.

By letter dated July 18, 2017 (ADAMS Accession No. ML17194B082), the NRC staff informed Exelon of its plan to conduct a regulatory audit of nondocketed information to support the staff's review of the LAR. The audit was performed using an online reference portal. The purpose of the audit was to verify assumptions and input used to calculate specific monitor thresholds in the proposed EALs.

The NRC staff reviewed calculations, analysis, and supporting documentations related to radiological effluent and containment radiation monitor thresholds in the proposed EALs. The specific documents reviewed were used to establish the thresholds for radiological effluent monitors in EALs RU1, RA1, RS1, and RG1 and the thresholds for containment radiation monitors in EALs FC3, RC3, CS6, and CG6. The complete list of documents reviewed is listed in the table below.

Document ID	Document Title	Document Date
EP-EAL-0712, Revision 0	Criteria for Choosing Containment Radiation Values Indicating: Loss of Fuel Clad and Potential Loss of Containment for Ginna Station	1/23/2017
EP-EAL-0632, Revision 0	Calculation of Ginna Nuclear Power Station Table R-1 EAL Threshold Values	1/10/2017
EP-EAL-0512, Revision 1	Criteria for Choosing Containment Radiation Monitor Readings Indicative of Loss of RCS [Reactor Coolant System] Barrier for Ginna	2/22/2017
EP-EAL-0502, Revision 0	Estimation of Radiation Monitor Readings Indicating Core Uncovery During Refueling Ginna Station	1/3/2017

Enclosure

Document ID	Document Title	Document Date
EP-EAL-0634, Revision 0	Calculation of Nine Mile Point Unit 2 Table R-1 EAL Threshold Values	3/8/2017
EP-EAL-0514, Revision 0	Criteria for Choosing Drywell Radiation Monitor Reading Indicative of Loss of the RCS Barrier for NMP U2	10/27/2016
EP-EAL-0504, Revision 0	Estimation of Radiation Monitor Readings Indicating Core Uncovery During Refueling Nine Mile Point Unit 2 Station	1/27/2017
EP-EAL-0713, Revision 0	Criteria for Choosing Containment Radiation Values Indicating: Loss of Fuel Clad and Potential Loss of Containment for Nine Mile Point Station Units 1 and 2	10/17/2016
EP-EAL-0633, Revision 0	Calculation of Nine Mile Point Unit 1 Table R-1 EAL Threshold Values	3/8/2017
EP-EAL-0513, Revision 0	Criteria for Choosing Drywell Radiation Reading Indicative of Loss of the RCS Barrier for NMP U1	10/26/2016
EP-EAL-0503, Revision 0	Estimation of Radiation Monitor Readings Indicating Core Uncovery During Refueling Nine Mile Point Unit 1 Station	1/27/2017
EP-EAL-0714, Revision 0	Criteria for Choosing Containment Radiation Values Indicating a Loss Fuel Clad and a Potential Loss of Containment at Calvert Cliffs	1/26/2017
EP-EAL-0635, Revision 0	Calculation of Calvert Cliffs Nuclear Power Plant Table R-1 EAL Threshold Values	2/7/2017
EP-EAL-0511, Revision 0	Criteria for Choosing Containment Radiation Monitor Readings Indicative of Loss of the RCS Barrier for Calvert Cliffs	11/18/2016
EP-EAL-0505, Revision 0	Estimation of Radiation Monitor Readings Indicating Core Uncovery During Refueling Calvert Cliffs Station	1/27/2017

The NRC staff has completed its audit. Information identified during the audit which the staff needed to make a regulatory decision on the LAR was requested by letter dated December 12, 2017 (ADAMS Accession No. ML17331B134). This audit summary does not include any staff findings or conclusions regarding the LAR or the audited documents.

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DISTRIBUTION:

PUBLIC	RidsNrrPMCalvertCliffs Resource
RidsNrrPMExelon Resource	RidsNrrPMNineMilePoint Resource
RidsNrrDorLpl1 Resource	RidsNrrPMREGinna Resource
RidsNrrDorLpl3 Resource	RidsNsirDpr Resource
RidsNrrLAIbetts Resource	RidsNmssDsfmSflb Resource
RidsNrrLASRohrer Resource	JAnderson, NSIR
RidsAcrs_MailCTR Resource	MNorris, NSIR
RidsRgn1MailCenter Resource	RHoffman, NSIR

ADAMS Accession No. ML18120A320

***via memo**

OFFICE	DORL/LPL3/PM	DORL/LPL3/LA	NSR/DPR/RLB/BC	DORL/LPL3/BC	DORL/LPL3/PM
NAME	BPurnell	SRohrer	JAnderson (MNorris for)*	DWrona	BPurnell
DATE	5/1/18	5/1/18	4/17/18	5/7/18	5/7/18

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