



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

January 23, 2014

LICENSEE: Exelon Generation Company, LLC

FACILITY: Byron Nuclear Station (Byron) and Braidwood Nuclear Station (Braidwood)

SUBJECT: SUMMARY OF CALL HELD ON JANUARY 2, 2014, BETWEEN THE U. S. NUCLEAR REGULATORY COMMISSION AND EXELON GENERATING COMPANY, LLC, CONCERNING REQUESTS FOR ADDITIONAL INFORMATION PERTAINING TO THE BYRON AND BRAIDWOOD NUCLEAR STATIONS LICENSE RENEWAL APPLICATION – SEVERE ACCIDENT MITIGATION ALTERNATIVE REVIEW (TAC NOS. MF1790, MF1791, MF1792, AND MF1793)

The U.S. Nuclear Regulatory Commission (NRC) staff and representatives of Exelon Generation Company, LLC, held a telephone conference call on January 2, 2014, to discuss the request for additional information (RAIs), pertaining to the severe accident mitigation alternatives review for the Byron and Braidwood license renewal application. The telephone conference call was useful in clarifying the RAIs.

Enclosure 1 provides a listing of the participants and Enclosure 2 contains a summary of the discussion.

The applicant had an opportunity to comment on this summary.

A handwritten signature in black ink, appearing to read "Lois M. James", is positioned above the typed name.

Lois M. James, Project Manager  
Projects Branch 2  
Division of License Renewal  
Office of Nuclear Reactor Regulation

Docket Nos. 50-454, 50-455, 50-456, and 50-457

Enclosures:

1. List of Participants
2. Discussion Summary

cc w/encls: Listserv

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**/RA/**

Lois M. James, Project Manager  
Projects Branch 2  
Division of License Renewal  
Office of Nuclear Reactor Regulation

Docket Nos. 50-454, 50-455, 50-456, and 50-457

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- 3. List of Participants
- 4. Discussion Summary

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DISTRIBUTION: See next page

**ADAMS Accession No.:ML14007A240**

\*concurred via email

OFFICE	LA:RPB1:DLR	PM:RPB2:DLR	BC:RPB2:DLR	PM:RPB2:DLR
NAME	YEdmonds	LJames	BWittick	LJames
DATE	1/13/2014	1/16/2014	1/17/2014	1/23/2014

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**TELEPHONE CONFERENCE CALL  
BYRON AND BRAIDWOOD NUCLEAR STATIONS  
LICENSE RENEWAL APPLICATION**

**LIST OF PARTICIPANTS  
January 2, 2014**

<b>PARTICIPANTS</b>	<b>AFFILIATIONS</b>
Lois M. James	Nuclear Regulatory Commission (NRC)
John Parillo	NRC
Bob Schmitt	Pacific Northwest National Laboratory (PNNL), NRC Contractor
Bruce Schmitt	PNNL, NRC Contractor
Nancy Ranek	Exelon Generation Company, LLC (Exelon)
Chris Wilson	Exelon
Don Macleod	ERIN Engineering and Research, Inc. (Erin Engineering), Exelon Contractor
Alex Duvall	Erin Engineering, Exelon Contractor
Grant Teagarden	Erin Engineering, Exelon Contractor
Jeff Gabor	Erin Engineering, Exelon Contractor

**SUMMARY OF TELEPHONE CONFERENCE CALL  
ON REQUEST FOR ADDITIONAL INFORMATION  
SEVERE ACCIDENT MITIGATION ALTERNATIVES  
PERTAINING TO THE BYRON AND BRAIDWOOD NUCLEAR STATIONS  
LICENSE RENEWAL APPLICATION**

January 2, 2014

The U.S. Nuclear Regulatory Commission (NRC) staff and representatives of Exelon Generation Company, LLC (Exelon or the applicant) held a telephone conference call on January 2, 2014, to discuss the request for additional information (RAIs) regarding the severe accident mitigation alternatives (SAMAs) for Byron and Braidwood Nuclear Stations license renewal application (LRA). The telephone conference call was useful in clarifying the RAIs.

**Discussion**

The staff and the applicant discussed the current draft RAIs sent to the applicant on December 18, 2013, (Agencywide Documents Access and Management System (ADAMS) Accession No. ML13351A517) concerning the LRA and the SAMA review. On December 23, 2013, the applicant requested clarification regarding RAI No. 4, subpart L:

It is noted that both the internal events and total (internal + external events) MACR [maximum averted cost-risk] for both Byron and Braidwood are generally significantly greater than the MACRs for other SAMA submittals. Provide a discussion of the major contributors/factors that lead to this result and provide an assessment of the realism or conservatism of these factors.

Specifically, the applicant requested clarification of the scope of the question and which specific SAMAs are included in the question, as written.

The discussion focused on what information the apparently large MACR results and the associated impact on the potentially cost-beneficial SAMAs. As a result of the discussion, the staff is revising the RAI question as follows:

Provide a discussion of the major contributors/factors that lead to the apparently large MACR and a qualitative assessment of the realism or conservatism of these factors.