

September 12, 2005

LICENSEE: Exelon Generation Company, LLC

FACILITY: Dresden Nuclear Power Station, Units 2 and 3, and Quad Cities Nuclear Power Station, Units 1 and 2

SUBJECT: SUMMARY OF MEETING ON AUGUST 29 and 30, 2005, TO DISCUSS THE OPEN ITEMS RELATED TO THE NRC REVIEW OF EXELON'S SUBMITTAL ON ALTERNATIVE SOURCE TERM FULL SCOPE LICENSE AMENDMENT (TAC NOS. MB6530, MB6531, MB6532, AND MB6533)

On August 29 and 30, 2005, members of the U.S. Nuclear Regulatory Commission (NRC) staff met with Exelon Generation Company, LLC (the licensee) representatives at NRC Headquarters, One White Flint North, 11555 Rockville Pike, Rockville, MD. The purpose of the meeting was to discuss the open items related to NRC staff review of the subject application. The meeting was a Category 1 public meeting; however, no member of the public attended the meeting. A meeting agenda was included in the meeting notice (ADAMS ML052310006). A list of attendees is enclosed.

The purpose of the meeting was to discuss NRC staff comments and concerns related to the revisions of the accident analyses, submitted by Exelon on August 22, 2005. This included the re-analyses of four accidents, i.e., loss of coolant accident (LOCA), control rod drop accident (CRDA), fuel handling accident (FHA), and main steam line break (MSLB) accident. Also included were revisions to calculations for the atmospheric dispersion factors. The NRC staff concerns included the following:

- control room inleakage value used in the accident analyses was not demonstrated to be the worst case;
- modeling technique used by Exelon to calculate control room doses needed to be justified;
- differences between results of Exelon's CRDA analyses dose values and the staff's confirmatory analyses results needed to be resolved;
- overall effective decontamination factor used in Exelon's FHA analyses;
- differences between Exelon's modeling for post LOCA elemental iodine deposition and modeling methodology utilized in Regulatory Guide 1.183, "Alternative Radiological Source Terms for Evaluating Design Basis Accidents at Nuclear Power Reactors;" and
- Exelon's demonstration of post LOCA mixing of drywell and torus air space to justify contribution to the main steam isolation valve leakage.

The licensee responded to the above concerns from the NRC staff and agreed to submit additional information including revisions to the accident analyses.

***/RA/***

Maitri Banerjee, Senior Project Manager, Section 2  
Project Directorate III  
Division of Licensing Project Management  
Office of Nuclear Reactor Regulation

Docket No. 50-237, 50-249, 50-254,  
and 50-265

Enclosure: Attendance List

cc w/encl: See next page

## Dresden and Quad Cities Nuclear Power Stations

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Dresden and Quad Cities Nuclear Power Stations

- 2 -

cc:

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September 12, 2005

The licensee responded to the above concerns from the NRC staff and agreed to submit additional information including revisions to the accident analyses.

**/RA/**

Maitri Banerjee, Senior Project Manager, Section 2  
Project Directorate III  
Division of Licensing Project Management  
Office of Nuclear Reactor Regulation

Docket No. 50-237, 50-249, 50-254,  
and 50-265

Enclosure: Attendance List

cc w/encl: See next page

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**Nrc-001**

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NAME	MBanerjee	PCoates	MTschiltz	GSuh
DATE	9/9/05	9/8/05	9/9/05	9/12/05

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**ATTENDANCE LIST**

**NRC MEETING WITH EXELON GENERATION COMPANY, LLC**

**DRESDEN AND QUAD CITIES ALTERNATIVE SOURCE TERM**

**LICENSE AMENDMENT APPLICATION**

**AUGUST 29-30, 2005**

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M. Kotzalas, NRC  
J. Hayes, NRC  
L. Brown, NRC  
T. Mscisz, Exelon  
E. Flick, Exelon  
P. Simpson, Exelon  
K. Nicely, Exelon

K. Jabbour, NRC  
H. Nieh, NRC  
A. Drozd, NRC  
H. Rothstein, Washington Group  
A. Boatright, Washington Group  
P. Reichert, Washington Group  
G. Patel, NUCORE

ENCLOSURE