

May 9, 2005

MEMORANDUM TO: File

FROM: John P. Segala, Senior Project Manager */RA/*
New, Research and Test Reactors Program
Division of Regulatory Improvement Programs
Office of Nuclear Reactor Regulation

SUBJECT: SUMMARY OF MARCH 9, 2005, TELEPHONE CONFERENCE CALL
WITH EXELON GENERATION COMPANY, LLC REGARDING
THE EARLY SITE PERMIT DRAFT SAFETY EVALUATION REPORT
OPEN ITEMS ON METEOROLOGY

This memorandum documents the results of a telephone conference between the Nuclear Regulatory Commission (NRC) staff and Exelon Generation Company, LLC (Exelon) on March 9, 2005.

Attachment 1 contains a summary of the call; Attachment 2 contains a summary of the meteorology-related open items.

Attachments: As stated

Docket No. 52-007

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Telephone Call Summary

Subject: Exelon Early Site Permit Draft Safety Evaluation Report Open Items Regarding Meteorology

Date of Call: March 9, 2005

Participants

Nuclear Regulatory Commission

Applicant

J. Segala
C. Araguas
B. Harvey

E. Grant

Discussion

The purpose of the conference call, which was held at the request of the Exelon, was for Exelon to gain a better understanding of the meteorology-related open items in the Exelon early site permit (ESP) draft safety evaluation report (DSER). Specifically, the staff and Exelon discussed all of the open items and combined license (COL) action items in Section 2.3, "Meteorology," of the DSER. In addition, Exelon asked questions regarding Section 2.3 of the DSER. The following is a list of the open items and COL action items discussed and the proposed actions to be taken:

Open Item Action

- | | |
|-------|---|
| 2.3-1 | Exelon indicated that they plan to use the same approach Dominion is using to address this issue. Exelon agreed to discuss this approach in response to this open item. |
| 2.3-2 | Exelon requested more detail regarding the staff's method and data that was used to determine the maximum accumulated degree days below freezing. The staff agreed to provide this discussion during the hydrology telephone call scheduled for March 10, 2005. |
| 2.3-3 | Exelon agreed to use a full 3 years of meteorological data and provide a response to this open item. |

COL Action Item Action

- | | |
|-------|---|
| 2.3-1 | Exelon will determine how the 3-second gust wind speed should be treated. |
| 2.3-2 | Exelon agreed that this COL action item will need to be performed at the COL stage. |

COL Action Item Action

- 2.3-3 Exelon agreed that this COL action item will need to be performed at the COL stage.
- 2.3-4 The staff will review the need for this COL action item.

DSER Question

Action

- 1. In DSER Table 2.3.1-5, Exelon did not understand why a "1% annual probability" was used, with regards to the "100-year return period," instead of a "0% annual probability."
Exelon will review this in more detail.
- 2. In DSER Table 2.3.1-5, Exelon did not understand the staff's description of the ground snow load.
Exelon will review the staff's 1975 interim branch technical position (ML050630277).
- 3. In DSER Table 2.3.5-2, Exelon did not understand why many site characteristics were identified for atmospheric dispersion since Exelon's application only had 1 site characteristic for atmospheric dispersion.
The staff will review this comment.
- 4. In DSER Table 2.3.1-3, Exelon did not think the description of the snow load site characteristic was correct.
Exelon will review the wording in the application.
- 5. In Section 2.3.1.2, Exelon identified that it would be more appropriate to refer to GDC 2, instead of GDC 4, when referring to the generation of missiles from tornadoes.
The staff will review this comment.
- 6. In Section 2.3.2.1, Exelon identified that the analytical modeling to estimate the impacts of fog was not performed by the ESP applicant, but was performed by the applicant, Illinois Power Co., for the existing CPS.
The staff will review this comment.
- 7. In Section 2.3.2.1, Exelon identified that the wording seems to imply that it is an NRC requirement to obtain an air quality permit instead of the State of Illinois.
The staff will review this comment.
- 8. In Section 2.3.5.2, Exelon identified that "SSAR Section 1.8.2" does not exist.
The staff will review this comment.
- 9. In Section 2.3.5.2, Exelon stated that they do not believe that they needed to identify RG 1.112.
The staff will review this comment.

Summary of Open Items

<u>Open Item No.</u>	<u>DSER Section</u>	<u>Subject</u>
2.3-1	2.3.1.3	Identify the meteorological data to use in evaluating the performance of a mechanical draft cooling tower ultimate heat sink (UHS) with respect to maximum evaporation and minimum water cooling as discussed in Regulatory Guide 1.27.
2.3-2	2.3.1.3	Identify an additional UHS design basis site characteristic for use in evaluating the potential for water freezing in the UHS water storage facility.
2.3-3	2.3.4.3	Use appropriately conservative meteorological data and appropriately conservative distances from postulated release points to calculate relative concentrations for accidental airborne releases of radioactive materials.

Summary of COL Action Items

<u>Action Item No.</u>	<u>DSER Section</u>	<u>Subject To Be Addressed</u>
2.3-1	2.3.1.3	Determine the 3-second gust wind speed based on the current applicable design standard.
2.3-2	2.3.2.3	Address how potential increases in atmospheric moisture and icing during winter months due to the use of natural draft cooling towers or mechanical draft cooling towers or both will impact plant design and operation.
2.3-3	2.3.4.1	Evaluate dispersion of airborne radioactive materials to the control room.
2.3-4	2.3.5.3	Confirm specific release point characteristics and locations of potential receptors for routine release dose computations.

Exelon ESP

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