

June 28, 2006

Mr. Christopher M. Crane, President
and Chief Nuclear Officer
Exelon Generation Company, LLC
4300 Winfield Road
Warrenville, IL 60555

SUBJECT: BYRON STATION, UNITS 1 AND 2, AND BRAIDWOOD STATION, UNIT 1
AND 2 - REQUEST FOR ADDITIONAL INFORMATION RELATED TO
ALTERNATE SOURCE TERM AMENDMENT REQUEST (TAC NOS. MC6221,
MC6222, MC6223, AND MC6224)

Dear Mr. Crane:

By letter to the Nuclear Regulatory Commission (NRC) dated February 15, 2005, Exelon Generation Company, LLC submitted a license amendment request related to application of alternate source term, for the Byron Station, Units 1 and 2, and Braidwood Station, Units 1 and 2.

The NRC staff is reviewing your submittal and has determined that additional information is required to complete the review. The specific information requested is addressed in the enclosure to this letter. During a discussion with your staff on June 5, 2006, it was agreed that you would provide a response 60 days from the date of this letter.

The NRC staff considers that timely responses to requests for additional information help ensure sufficient time is available for staff review and contribute toward the NRC's goal of efficient and effective use of staff resources. If circumstances result in the need to revise the requested response date, please contact me at (301) 415-3733.

Sincerely,

/RA/

Robert F. Kuntz, Project Manager
Plant Licensing Branch III-2
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

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

Enclosure:
Request for Additional Information

cc w/encl: See next page

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OFFICIAL RECORD COPY

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REQUEST FOR ADDITIONAL INFORMATION

BYRON STATION, UNITS 1 AND 2,

AND BRAIDWOOD STATION, UNITS 1 AND 2

DOCKET NOS. STN 50-454, STN 50-455,

STN 50-456 AND STN 50-457

In reviewing the Exelon Generation Company's (Exelon's) submittal dated February 15, 2005, related to a license amendment request related to application of alternate source term, for the Byron Station, Units 1 and 2 (Byron) and Braidwood Station, Units 1 and 2, the NRC staff has determined that the following information is needed in order to complete its review:

1. Your submittal requested a change to the note on Technical Specification (TS) page 3.9.4-1 from LCO 3.7.13 to TS 3.7.13. Clarify how changing the wording from "LCO" to "TS" changes the applicability of the note, or alternatively, reword the note so that it explicitly defines when the note is applicable. (RAI category 4, unclear TS requirement).
2. In the program manual section 5.5.11 the requested change is from 0.05% bypass to 1.0% bypass. The 0.05% bypass is a system integrity test specified in ANSI N510, and stated in section C.5.d of Regulatory Guide (RG) 1.52 to insure leak tightness. Please explain how system integrity will be ensured given this proposed deviation from the RG 1.52 guidance. (RAI category 2.d).

Enclosure

RAI CATEGORIES

(Select only one, most dominant category for each RAI question)

1. More information is needed because of:
 - a. complexity of request
 - b. first-of-a-kind nature of request
 - c. NRC change in regulatory significance or focus
 - d. NRC questions on previously used methodology or guidance
 - e. licensee change to previously used methodology
 - f. licensee reduction in current safety margin

2. The review can not be completed without additional explanation or clarification of:
 - a. input variables or analytical assumptions
 - b. methodology used or results obtained
 - c. applicability or bounding nature of third party analyses or data correlations
 - d. differences from NRC guidance documents (SRP, RG, etc.)
 - e. no significant hazards consideration discussion
 - f. environmental considerations discussion
 - g. applicable regulatory requirements discussion
 - h. information that appears to be incorrect and needs to be corrected
 - i. response to previous RAI appears inadequate

3. Reviewer requesting information even though the question is, or the question asks for:
 - a. not directly related to the request
 - b. inconsistent with applicable codes, standards, RGs, or SRP sections
 - c. information accessible from readily available sources and was explicitly referenced
 - d. information does not appear needed given the precedent cases discussed in the request
 - e. information that is not safety significant or pertinent to the regulatory finding
 - f. information that is known to engineers who work in the general technical area
 - g. going beyond the current licensing basis and doesn't need to be asked
 - h. a formal commitment

4. Other (please specify)