

August 8, 2006

Mr. Christopher M. Crane, President
and Chief Executive Officer
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AmerGen Energy Company, LLC
4300 Winfield Road
Warrenville, IL 60555

SUBJECT: BRAIDWOOD STATION, UNIT NOS. 1 AND 2; BYRON STATION, UNIT NOS. 1 AND 2; CLINTON POWER STATION, UNIT 1; DRESDEN NUCLEAR POWER STATION, UNITS 1, 2, AND 3; LASALLE COUNTY STATION, UNITS 1 AND 2; LIMERICK GENERATING STATION, UNITS 1 AND 2; OYSTER CREEK NUCLEAR GENERATING STATION; PEACH BOTTOM ATOMIC POWER STATION, UNIT NOS. 1, 2, AND 3; QUAD CITIES NUCLEAR POWER STATION, UNITS 1 AND 2; THREE MILE ISLAND NUCLEAR STATION, UNIT 1; AND ZION NUCLEAR POWER STATION, UNITS 1 AND 2 - REQUEST FOR ADDITIONAL INFORMATION RE: APPLICATION TO USE WEIGHTING FACTORS FOR EXTERNAL EXPOSURE (TAC NOS. MC9247 THROUGH MC9263, L52678, L52679, L52693, AND L52694)

Dear Mr. Crane:

By letter to the Nuclear Regulatory Commission (NRC) dated December 14, 2005, as supplemented by letter dated April 18, 2006, AmerGen Energy Company, LLC and Exelon Generation Company, LLC, submitted a request to use weighting factors for calculating external whole body dose pursuant to Title 10 of the *Code of Federal Regulations*, Section 20.1003.

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 July 20, 2006, it was agreed that you would provide a response within 30 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

C. Crane

-2-

efficient and effective use of staff resources. If circumstances result in the need to revise the requested response date, please contact me at (301) 415-1496.

Sincerely,

/RA/

Maitri Banerjee, Project Manager
Plant Licensing Branch III-2
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

Docket Nos. STN 50-456 and STN 50-457; STN 50-454 and STN 50-455; 50-461; 50-10, 50-237, and 50-249; 50-373 and 50-374; 50-352 and 50-353; 50-219; 50-171, 50-277, and 50-278; 50-254 and 50-265; 50-289; and 50-295 and 50-304

Enclosure:
Request for Additional Information

cc: See next page

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efficient and effective use of staff resources. If circumstances result in the need to revise the requested response date, please contact me at (301) 415-1496.

Sincerely,

/RA/

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Enclosure:
Request for Additional Information

cc: See next page

DISTRIBUTION:

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ADAMS ACCESSION NUMBER: ML061520441

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REQUEST FOR ADDITIONAL INFORMATION

BRAIDWOOD STATION, UNIT NOS. 1 AND 2; BYRON STATION, UNIT NOS. 1 AND 2;
CLINTON POWER STATION, UNIT 1; DRESDEN NUCLEAR POWER STATION, UNITS 1, 2,
AND 3; LASALLE COUNTY STATION, UNITS 1 AND 2; LIMERICK GENERATING STATION,
UNITS 1 AND 2; OYSTER CREEK NUCLEAR GENERATING STATION; PEACH BOTTOM
ATOMIC POWER STATION, UNITS 1, 2, AND 3; QUAD CITIES NUCLEAR POWER
STATION, UNITS 1 AND 2; THREE MILE ISLAND NUCLEAR STATION, UNIT 1; AND ZION
NUCLEAR POWER STATION, UNITS 1 AND 2

Docket Nos. STN 50-456 and STN 50-457; STN 50-454 and STN 50-455; 50-461; 50-10,
50-237, and 50-249; 50-373 and 50-374; 50-352 and 50-353; 50-219; 50-171, 50-277, and
50-278; 50-254 and 50-265; 50-289; and 50-295 and 50-304

Note: The code provided in parenthesis after each question refers to the request for addition information (RAI) categorization codes listed at the end of the RAI.

In reviewing the AmerGen Energy Company, LLC and Exelon Generation Company, LLC's (the licensees), submittal dated December 14, 2005, as supplemented by letter dated April 18, 2006, related to the use of weighting factors for calculating external dose, pursuant to Title 10 of the *Code of Federal Regulations* (10 CFR), Section 20.1003, "Definitions," the NRC staff has determined that the following information is needed in order to complete its review:

1. The NRC staff does not endorse the dosimeter placement criteria in ANSI/HPS N13.41, as it is inconsistent with 10 CFR Part 20 requirements. Verify that when determining the effective dose equivalent with the weighting factors in Table 1 of ANSI/HPS N13.41, each body compartment, or composite compartment (e.g., adjoining compartments that are combined and treated as one compartment), will be monitored at the highest exposed part of that compartment. (Category 2.i.)
2. In determining the highest exposed part of a compartment, or composite compartment, verify that dosimeter placement criteria are consistent with the criteria in NRC Inspection Procedure 71121.01-03.04.c. (Category 2.i.)

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)