

June 13, 2006

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

SUBJECT: BYRON STATION, UNIT NOS. 1 AND 2 - REQUEST FOR ADDITIONAL  
INFORMATION RELATED TO REQUEST FOR RELIEF FROM THE ASME OM  
CODE FOR THE THIRD INSERVICE TEST INTERVAL (TAC NOS. MC9642,  
MC9643, MC9752, MC9753, MC9754, MC9755, MC9756, MC9757, MC9758,  
MC9759, MC9762, MC9763, MC9764, AND MC9765)

Dear Mr. Crane:

By letter to the Nuclear Regulatory Commission (NRC) dated December 12, 2005, Exelon Generation Company, LLC submitted a request for relief from the American Society of Mechanical Engineers Operation and Maintenance Code for the third inservice test interval, for Byron Station, Unit Nos.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 May 31, 2006, it was agreed that you will 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 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. 50-454 and 50-455

Enclosure:  
Request for Additional Information

cc w/encl: See next page

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DATE	6/12/2006	6/12/2006	6/13/2006

OFFICIAL RECORD COPY

Byron Station Units 1 and 2

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4300 Winfield Road  
Warrenville, IL 60555

REQUEST FOR ADDITIONAL INFORMATION

BYRON STATION, UNITS 1 AND 2

DOCKET NOS. 50-454 AND 50-455

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

In reviewing the Exelon Generation Company's (Exelon's) submittal dated December 29, 2005, related to a request for relief from the American Society of Mechanical Engineers Operation and Maintenance Code for the third inservice test interval, for Byron Station, Unit Nos. 1 and 2, the NRC staff has determined that the following information is needed in order to complete its review:

1. Relief request RP-2 (Category 1.b)

Provide pump data that compares pump performance to the acceptance criteria identified in Table ISTB-5100-1 for the Comprehensive pump test for each of the last three cycles.

2. Relief request RP-3 (Category 1.b)

Provide pump data that compares pump performance to the acceptance criteria identified in Table ISTB-5100-1 for the Comprehensive pump test for each of the last three cycles.

3. Relief request RP-4 (Category 1.b)

Provide pump data that compares pump performance to the acceptance criteria identified in Table ISTB-5100-1 for the Comprehensive pump test for each of the last three cycles.

4. Relief request RP-6 (Category 1.b)

Provide discussion on how this relief request provides an acceptable level of quality. The discussion provided describes the proposed alternative, but does not describe how it provides an acceptable level of quality.

5. Relief request RV-1 (Category 2.a)

This relief request proposes an alternative that would provide an acceptable level of quality and safety for the exercising test frequency of four valves. The discussion provided describes the impracticality of the actions necessary to stroke these valves. Provide a discussion as to how the change of stroking the valves quarterly to stroking them once every 18 months with a 25 percent allowance for flexibility in scheduling provides a similar level of quality and safety. Include information regarding the environmental and chemical effects on the ability to stroke the valves.

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)