

September 15, 2004

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

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION (RAI) REGARDING STEAM  
GENERATOR INSERVICE INSPECTION REPORT FOR THE SPRING 2004  
OUTAGE - BYRON STATION, UNIT 2 (TAC NO. MC3737)

Dear Mr. Crane:

By letters dated April 17, 2004 (ML041170314), and June 23, 2004 (ML041830404) Exelon Generation Company, LLC (Exelon), in accordance with technical specification 5.6.9, submitted the results of the steam generator inspections that were completed during the Byron Station, Unit 2, Cycle 11 refueling outage.

During the course of the U.S. Nuclear Regulatory Commission staff's review of the results, we have found that additional information is needed in order to complete the review. The staff's questions are included in the enclosed RAI. Please provide the response to the questions within 60 days of receipt of this letter. The questions and the response schedule have been discussed with members of the Exelon staff.

Sincerely,

*/RA/*

George F. Dick, Jr., Project Manager, Section 2  
Project Directorate III  
Division of Licensing Project Management  
Office of Nuclear Reactor Regulation

Docket Nos. STN 50-455

Enclosure: As stated

cc w/encl: See next page

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Byron Station Units 1 and 2

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REQUEST FOR ADDITIONAL INFORMATION  
STEAM GENERATOR INSERVICE INSPECTION REPORT  
RELATED TO CYCLE 11 REFUELING OUTAGE  
EXELON GENERATION COMPANY, LLC  
BYRON STATION, UNIT 2  
DOCKET NO. STN 50-455

By letters dated April 17, 2004 (ML041170314), and June 23, 2004 (ML041830404), Exelon Generation Company, LLC, the licensee for Byron Station, Unit 2, submitted reports summarizing the steam generator tube inspections performed at Byron 2, Unit 2 during their 2004 refueling outage.

In order for the staff to complete its review, responses to the following questions are requested:

1. During the 2002 and 2004 refueling outages at Byron 2, Unit 2, a number of tubes were reported with indications of wear at the anti-vibration bars (AVBs). The results from the 2002 outage were provided in a letter dated December 10, 2002 (ML023520084). The staff compared the number of indications detected during the 2002 and 2004 outages, and noticed that for many of the steam generators that the number of tubes with wear at the AVBs and the number of indications appears to have declined without a commensurate amount of tube plugging. Please discuss the reasons for the trends in this data. In addition, discuss whether the results of the "current" inspection are compared with those of the previous inspection to ensure that all previously reported flaws are appropriately identified and dispositioned (or whether this practice will be implemented in future inspections). Please discuss whether the growth rates for the wear indications at the AVBs are consistent with past inspections.
2. A number of tubes were reported with indications at the 7<sup>th</sup> cold-leg tube support plate (07C). Many of these indications appear to be in the periphery of the tube bundle near the "T-slot." Please clarify the nature and cause of these indications including the technical basis for the conclusions.