April 4, 2007

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, AND BRAIDWOOD STATION, UNITS 1 AND 2 - REQUEST FOR ADDITIONAL INFORMATION RELATED TO BULLETIN 2004-01, "INSPECTION OF ALLOY 82/182/600 MATERIALS USED IN THE FABRICATION OF PRESSURIZER PENETRATIONS AND STEAM SPACE PIPING CONNECTIONS AT PRESSURIZED WATER REACTORS," (TAC NOS. MC3461, MC3462, MC3463, AND MC3464)

Dear Mr. Crane:

By letter to the Nuclear Regulatory Commission (NRC) dated July 27, 2004, Exelon Generation Company, LLC submitted a 60-day response to NRC Bulletin 2004-01, "Inspection of Alloy 82/182/600 Materials Used in the Fabrication of Pressurizer Penetrations and Steam Space Piping Connections at Pressurized Water Reactors," for Byron Station, Unit Nos. 1 and 2, and Braidwood Station, Units 1 and 2.

The NRC staff is reviewing your response and has determined that additional information is required to complete the review. The specific information requested is addressed in the enclosure to this letter. So that the NRC staff can complete its review, 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. 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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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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Byron/Braidwood Stations

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REQUEST FOR ADDITIONAL INFORMATION

BYRON STATION, UNIT NOS. 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

The NRC is reviewing Exelon Generation Company's (Exelon's) 60 day response to NRC Bulletin 2004-01, "Inspection of Alloy 82/182/600 Materials Used in the Fabrication of Pressurizer Penetrations and Steam Space Piping Connections at Pressurized Water Reactors" for the Byron Station, Unit Nos. 1 and 2 (Byron) and Braidwood Station, Units 1 and 2 (Braidwood), dated July 27, 2004. Based on the NRC staff's review, additional information is needed. Please provide a supplemental response which addresses the following question:

> Item 1(c) in Bulletin 2004-01 states in part, "If leaking pressurizer penetrations or steam space piping connections are found, indicate what followup NDE [nondestructive examination] will be performed to characterize flaws in the leaking penetrations. Provide your plans for expansion of the scope of NDE to be performed if circumferential flaws are found in any portion of the leaking pressurizer penetrations or steam space piping connections." Provide a response that addresses whether NDE that is capable of determining crack orientation will be performed in order to accurately characterize the flaw, its orientation and its extent where evidence of apparent reactor coolant pressure boundary leakage is discovered by visual examination. The response should also provide your plans for expansion of the scope of NDE to other components in the pressurizer to be performed if circumferential flaws are found in any portion of the leaking pressurizer penetrations or steam space piping connections. Alternatively, if you will not supplement your original response to address the comments above, please provide a technical justification for not doing so.

Enclosure