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10 CFR 50  
10 CFR 51  
10 CFR 54

RS-13-282

December 19, 2013

U. S. Nuclear Regulatory Commission  
Attention: Document Control Desk  
Washington, DC 20555-0001

Byron Station, Units 1 and 2  
Facility Operating License Nos. NPF-37 and NPF-66  
NRC Docket Nos. 50-454 and 50-455

**Subject:** Response to NRC Request for Additional Information, dated November 21, 2013, related to the Byron and Braidwood Stations, Units 1 and 2 License Renewal Application, Byron Station Applicant's Environmental Report

**References:**

1. Exelon Generation Company, LLC letter from Michael P. Gallagher to NRC Document Control Desk, "Application for Renewed Operating Licenses", dated May 29, 2013
2. Letter from Lois M. James (NRC) to Michael P. Gallagher (Exelon), "Requests for Additional Information for the Environmental Review of the Byron Nuclear Station, Units 1 and 2, License Renewal Application", dated November 21, 2013

In the Reference 1 letter, Exelon Generation Company, LLC (Exelon Generation) submitted the License Renewal Application (LRA) for the Byron and Braidwood Stations, Units 1 and 2. In the Reference 2 letter, the NRC requested additional information to support the Staff's review of the Byron Station Applicant's Environmental Report (Appendix E, Item E-1 to the LRA).

Enclosure A of this letter provides a cross reference index of the Staff's questions in the Reference 2 letter and the Exelon Generation responses contained in Enclosure B of this letter. For each of the Staff's questions, Enclosure B provides hard copies of a response sheet coupled with other documents named in the response sheet, as appropriate.

An information-only copy of this letter and all enclosures is being provided to the NRC License Renewal Environmental Project Manager on CD to facilitate Staff review of the information.

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NRR

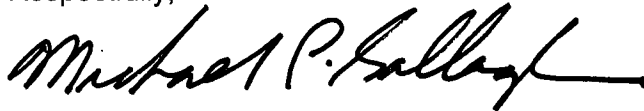
This letter and its enclosures contain no regulatory commitments.

If you have any questions, please contact Mr. Al Fulvio, Manager, Exelon Generation License Renewal, at 610-765-5936.

I declare under penalty of perjury that the foregoing is true and correct.

Executed on: 12-19-2013

Respectfully,

A handwritten signature in black ink, appearing to read "Michael P. Gallagher", with a long horizontal flourish extending to the right.

Michael P. Gallagher  
Vice President - License Renewal Projects  
Exelon Generation Company, LLC

Enclosures:

- A: Cross Reference Index
- B: Hard copies of Response Sheets and Supporting Documents

cc: Regional Administrator - NRC Region III (w/o Enclosure B)  
NRC Project Manager (Environmental Review), NRR-DLR (w/o Enclosure B)  
NRC Project Manager (Safety Review), NRR-DLR (w/o Enclosure B))  
NRC Project Manager, NRR-DORL Byron Station (w/o Enclosure B)  
NRC Senior Resident Inspector, Byron Station (w/o Enclosure B)  
Illinois Emergency Management Agency – Division of Nuclear Safety