

Exelon Generation Company, LLC  
Byron Station  
4450 North German Church Road  
Byron, IL 61010-9794

www.exeloncorp.com

April 30, 2012

LTR: BYRON 2012-0038  
File 1.10.0101  
2.12.1522

10 CFR 50.36a

United States Nuclear Regulatory Commission  
ATTN: 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. STN 50-454 and STN 50-455

Subject: 2011 Annual Radioactive Effluent Release Report

Enclosed is the Annual Radioactive Effluent Release Report for Byron Station. This report is being submitted in accordance with 10 CFR 50.36 a(2), "Technical specifications on effluents from nuclear power reactors," and includes a summary of radiological liquid and gaseous effluents and solid waste released from the site from January 2011 through December 2011. Also enclosed is the current Revision 7 of the Byron Station Offsite Dose Calculation Manual (ODCM), the Byron ODCM and the Revision 7 Change Document.

If you have any questions regarding this information, please contact David T. Gudger, Regulatory Assurance Manager, at (815) 406-2800.

Respectfully,



Timothy J. Tulon  
Site Vice President  
Byron Nuclear Generating Station

TJT.JG/TH/cy

Attachments:

- Annual Radioactive Effluent Release Report
- ODCM Rev 7 Change Document summary
- CY-BY-170-301 Rev 7 (ODCM Rev 7)