

Exelon Generation Company, LLC Byron Station 4450 North German Church Road Byron, IL 61010–9794 www.exeloncorp.com

Nuclear

April 30, 2010

10 CFR 50.36a

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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:

2009 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 50.36a(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 2009, through December 2009. Also enclosed is the current Revision 6 of the Byron Station Offsite Dose Calculation Manual (ODCM), the Byron ODCM, Revision 6 Change Document and Technical Requirements Manual Chapters 3.11 and 3.12.

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

Respectfully,

Daniel J. Enright Site Vice President

Byron Nuclear Generating Station

DJE/JG/TH/cy

Attachments:

- Annual Radioactive Effluent Release Report
- ODCM Rev 6 Change Document Summary
- TRM Chapters 3.11 and 3.12
- CY-BY-170-301-Rev 6 (ODCM Rev 6)