

Exelon Generation Company, LLC  
Byron Station  
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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: 2005 Annual Radiological Environmental Operating Report and Current Revision  
of the Byron Station Offsite Dose Calculation Manual (ODCM)

In accordance with Technical Specification 5.6.2, "Annual Radiological Environmental Operating Report," we are submitting the Annual Radiological Environmental Operating Report (AREOR) for Byron Station. This report is required to be submitted to the NRC by May 15<sup>th</sup> of each year. This report contains the results of the radiological environmental and meteorological monitoring programs. The Radioactive Effluent Release Report was submitted under separate cover. Also enclosed is a current revision of the Byron Station Offsite Dose Calculation Manual (ODCM) and Technical Requirements Manual Chapters 3.11 and 3.12.

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

Respectfully,



David M. Hoots  
Site Vice President  
Byron Nuclear Generating Station

DMH/ES/tlf/rah

Attachments: AREOR  
ODCM

FE25  
A009