

April 16, 2005

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United States Nuclear Regulatory Commission  
Attention: Document Control Desk  
Washington, DC 20555-0001

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

Subject: 2004 Annual Environmental Operating Report

Byron Station is submitting the Annual Environmental Operating Report as required by Facility Operating License No. NPF-37, Appendix B, "Environmental Protection Plan (Non-Radiological)," Section 5.4, "Plant Reporting Requirements." This report addresses the period from January 1, 2004 to December 31, 2004. The objectives of the Environmental Protection Plan as stated in Appendix B, Section 1.0, "Objectives of the Environmental Protection Plan", have been met during this period.

There were no non-compliances to the Environmental Protection Plan: therefore, no corrective actions were required by Appendix B, Subsection 5.4.1(1). There were no changes in the station design or operation, or tests and experiments which involved a potentially significant, unreviewed environmental question as defined in Subsection 3.1, "Plant Design and Operation." There were no non-routine reports submitted per Subsection 5.4.2. Byron Station received no noise complaints during 2004. The aerial photographic monitoring program, described in Subsection 4.2.1, "Aerial Remote Sensing," was completed in 1993. The confirmatory sound survey requirements, described in subsection 4.2.2, "Confirmatory Sound Level Survey," were completed in 1988.

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If there are any questions regarding this report, please contact Mr. William Grundmann, Regulatory Assurance Manager, at (815) 406-2800.

Respectfully,

*(signed by)*  
Stephen E. Kuczynski  
Site Vice President  
Byron Nuclear Generating Station

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