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UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D.C. 20555-0001

October 19, 2007

Mr. Darin Benyak  
Director - Licensing Mid-West  
Exelon Generation Company, LLC  
4300 Winfield Road  
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SUBJECT: DISTRIBUTION OF REVISION 2 OF THE NRC'S SIGNIFICANCE  
DETERMINATION PROCESS RISK-INFORMED INSPECTION NOTEBOOKS,  
AND ACCOMPANYING PHASE 2 PRE-SOLVED TABLES (MD6415)

Dear Mr. Benyak:

In 2004, the U.S. Nuclear Regulatory Commission (NRC) requested information from licensees to support the Significance Determination Process (SDP) Risk-Informed Inspection Notebook (notebook) enhancement/standardization effort. The NRC has completed this effort and has issued revision 2 of the notebook for Braidwood Station, Units 1 and 2 (Braidwood), Byron Station, Unit Nos. 1 and 2 (Byron), Clinton Power Station, Unit No. 1 (Clinton), Dresden Nuclear Power Station, Units 2 and 3 (DNPS), LaSalle County Station, Units 1 and 2 (LSCS), and Quad Cities Nuclear Power Station, Units 1 and 2 (QCNPS). The NRC developed these notebooks to facilitate Phase 2 of the NRC inspection finding significance determination process detailed in Inspection Manual Chapter 0609, "Significance Determination Process," Appendix A, "Determining the Significance of Reactor Inspection Findings for At-Power Situations." SECY-99-007A, "Recommendations for Reactor Oversight Process Improvements," sets forth this process and additional details are included in the NRC Inspection Manual Chapter 0308, "Reactor Oversight Process Basis Document." NRC inspectors and risk analysts, who have extensive understanding of plant-specific design features and operation, are expected to use these notebooks. The notebooks will be updated on a case by case basis as needed to reflect changes to the facilities.

Revision 2 of the notebooks is accompanied by the Site Specific Pre-Solved Spreadsheet (the Spreadsheet). The NRC added the Spreadsheet to help reduce the time it takes to process inspection findings. The NRC benchmarked the notebooks against licensee Probabilistic Risk Assessments and plant configurations. The enclosed compact disks containing the above documents are provided for your use to facilitate your understanding of the SDP in Inspection Manual Chapter 0609.

The enclosures transmitted herewith  
contain Security-Related Information.  
When separated from enclosures,  
this document is decontrolled.

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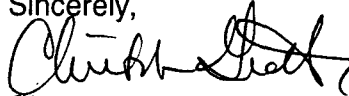
D. Benyak

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The information on the enclosed compact disk is designated exempt from public disclosure pursuant to Section 2.390(d)(1) of Title 10 of the *Code of Federal Regulations* since it contains security-related information.

If you have any questions, please contact me at (301) 415-1055.

Sincerely,



Christopher Gratton, Project Manager  
Plant Licensing Branch III-2  
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Office of Nuclear Reactor Regulation

Docket Nos. 50-456, 50-457, 50-454, 50-455,  
50-461, 50-237, 50-249, 50-373, 50-249,  
50-373, 50-374, 50-254 and 50-265

Enclosures:

1. Compact Disk with Braidwood SDP, Revision 2 and Site Specific Presolved Spreadsheet Official Use Only - Security Related Information
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6. Compact Disk with QCNPS SDP, Revision 2 and Site Specific Presolved Spreadsheet Official Use Only - Security Related Information

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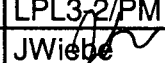



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