

April 24, 2008

U.S. Nuclear Regulatory Commission  
Attention: Document Control Desk  
Washington, D.C. 20555

Zion Nuclear Power Station, Unit 1 and 2  
Facility Operating License Nos. DPR-39 and DPR-48  
NRC Docket Nos. 50-295 and 50-304

Subject: Radioactive Effluent Release Report for 2007 and  
Offsite Dose Calculation Manual for 2007

In accordance with 10 CFR 50.36a, "Technical specifications on effluents from nuclear power plants," and pursuant to Technical Specification 5.7.3, "Radioactive Effluent Release Report," for Zion Nuclear Station, Units 1 and 2, this is the submittal of a Radioactive Effluent Release Report for the year 2007. The report is required to be submitted by April 30, 2008 and is provided as 1<sup>st</sup> Attachment to this letter. A listing of commitments contained in this submittal is provided as 2<sup>nd</sup> Attachment.

Pursuant to 10 CFR 50.4, there were changes made to the Exelon Nuclear Offsite Dose Calculation Manual (ODCM) during the period of January through December 2007. The 3<sup>rd</sup> Attachment provides the changes made to the ODCM during the calendar year of 2007.

Technical Specification 5.6.1 for the Zion Nuclear power station requires a copy of the entire ODCM be submitted to the NRC as part of, or concurrent with, the Radioactive Effluent Release Report. This must be submitted prior to May 1. A copy of the entire Exelon ODCM, current as of December 31, 2007 is provided as an Attachment.

If you have any questions about this submittal please contact Mr. Ken Greenlee at 847-379-2700.

Respectfully,



Ronald J. Schuster  
Plant Manager  
Zion Nuclear Station

IE 48  
A009

Attachments

1. Radioactive Effluent Release Report
2. List of Regulatory Commitments
3. Summary of Changes to the ODCM
4. Exelon ODCM

Copy to: Regional Administrator- NRC Region III

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