

# EGC ESP

## NRC Seismic Site Visit

Prepared for the  
**U. S. Nuclear Regulatory  
Commission (USNRC)**

**MAY 18-19, 2004**

**Exelon**<sup>SM</sup>

 **CH2MHILL**

  
**GEOMATRIX**

# Agenda for NRC Site Visit

**Tuesday, May 18**

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<b>7:30 to 8:00</b>	<b>Introductory comments by NRC and Exelon</b>
<b>8:00 to 10:00</b>	<b>PSHA Presentation with Q&amp;A [RAI Questions (b) and (c)]</b>
<b>10:00 to 10:30</b>	<b>Break</b>
<b>10:30 to 12:00</b>	<b>Continuation of PSHA Presentation and Discussion</b>
<b>12:00 to 1:00</b>	<b>Lunch</b>
<b>1:00 to 3:00</b>	<b>Risk-Based Design [RAI Questions (a) and (d)]</b>
<b>3:00 to 3:30</b>	<b>Break</b>
<b>3:30 to 6:00</b>	<b>Continuation of Risk-Based Design Presentation and Discussion</b>

# Agenda for NRC Site Visit

**Wednesday, May 19**

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<b>7:30 to 10:30</b>	<b>Travel to CPS</b>
<b>10:30 to 12:00</b>	<b>Field tour of plant site, ESP footprint, intake and outlet structures, and dam</b>
<b>12:00 to 12:30</b>	<b>Lunch</b>
<b>12:30 to 2:00</b>	<b>Paleoliquefaction Presentation with Q&amp;A</b>
<b>2:00 to 2:30</b>	<b>Break</b>
<b>2:30 to 4:30</b>	<b>Geotechnical Presentation with Q&amp;A</b>

# EGC ESP Project Team

## Tuesday - PSHA and Design Response Spectrum

		Seismic Board of Review	
<b>Exelon</b>	<b>CH2M HILL</b>	<b>Geomatrix</b>	
Tom Mundy	Amy Lientz	Bob Youngs	Carl Stepp
Eddie Grant	Don Anderson		Allin Cornell
	Matt Gavin		Bob Kennedy

## Wednesday - Site Visit, Paleoliquefaction and Geotechnical Engineering

<b>Exelon</b>	<b>CH2M HILL</b>	<b>Geomatrix</b>
Tom Mundy	Don Anderson	Bob Youngs
Eddie Grant	Matt Gavin	Kathryn Hanson

# Key Seismic Issues

## April 1, 2004 Draft RAI Questions from NRC

Questions	When Discussed
<b>(a)</b> Justify incorporation of equipment performance into determination of SSE (e.g., SAR Section 2.5.2 incorporates component capacity or performance parameters into a scale factor to compute SSE).	Tuesday pm
<b>(b)</b> Explain how SSE in Section 2.5.2 is characterized by both horizontal and vertical free field ground motion spectra at ground surfaces.	Tuesday am
<b>(c)</b> Describe how performance-based approach incorporates site-specific geology.	Tuesday am
<b>(d)</b> Justify reference probability level used other than median $1 \times 10^{-5}$ /year. [Justify why departed from R.G.1.165).	Tuesday pm

# Key Seismic Issues

## May 12, 2004 Email Topics from NRC

Topics	When Discussed
<b>(a)</b> Discuss update to EPRI source models for New Madrid, Wabash, and Southern Illinois and new source zones (maximum magnitude, recurrence, and geometry).	Tuesday am
<b>(b)</b> Discuss survey/coverage of liquefaction.	Wednesday pm
<b>(c)</b> Discuss incorporation of site geology into SSE ground motion determination.	Tuesday am
<b>(d)</b> Discuss Bayesian estimate of maximum magnitude for central Illinois sources.	Tuesday am
<b>(e)</b> Discuss use of EPRI shear modulus and damping curves.	Tuesday am Wednesday pm