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Craver, Patti

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From: Istar, Ata *mrk*  
Sent: Friday, August 26, 2011 10:37 AM  
To: Hiser, Allen  
Cc: Auluck, Rajender  
Subject: North Anna Nuclear Power Plant.pptx



North Anna  
ear Power Pla

Allen: As you requested, attached presentation is the summary for the NANPP earthquake issue:

*D*  
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# **North Anna Nuclear Power Plant (NANPP) Earthquake on August 23, 2011**

Ata Istar  
August 26, 2011

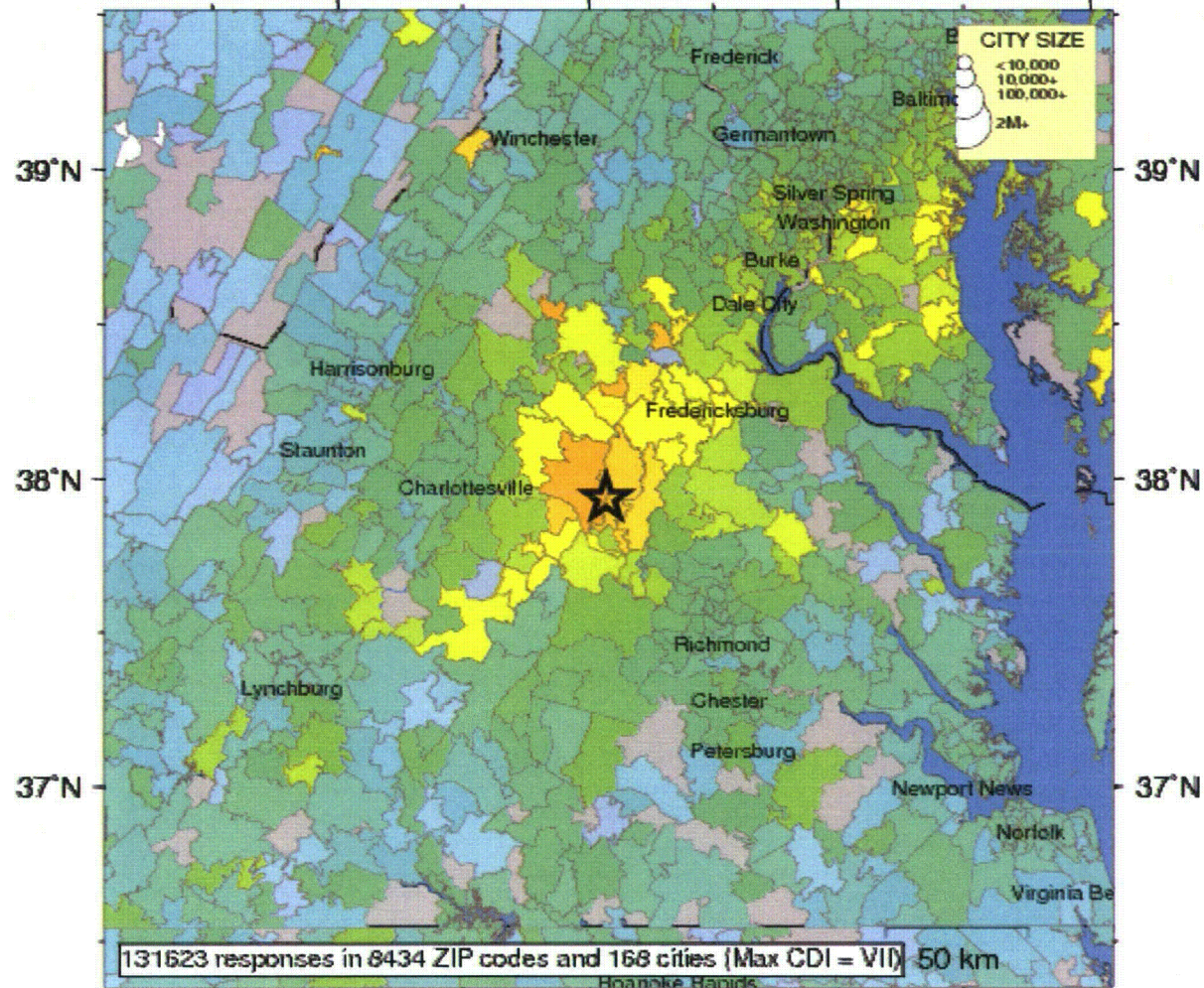
- Peak ground acceleration due to the earthquake on August 23, 2011 is estimated to be 0.20g, which may be updated later.
- Therefore, the ground motion likely exceeded the NANPP SSE response spectra of 0.12g.
- If the NANPP SEE response spectra curves would not envelop the new response spectra curves, reevaluation of all SCs in-scope of LR need to be performed for justification of continued operation using the predicted cross-sectional (mechanical) properties at the end of the license period.

## **Conclusion:**

The reduced cross-sectional (mechanical) properties coupled with the increased seismic estimates will increase the stress levels exponentially at the critical locations of NANPP SCs.

# USGS Community Internet Intensity Map VIRGINIA

Aug 23 2011 01:51:04 PM local 37.936N 77.933W M5.8 Depth: 6 km ID:se082311a



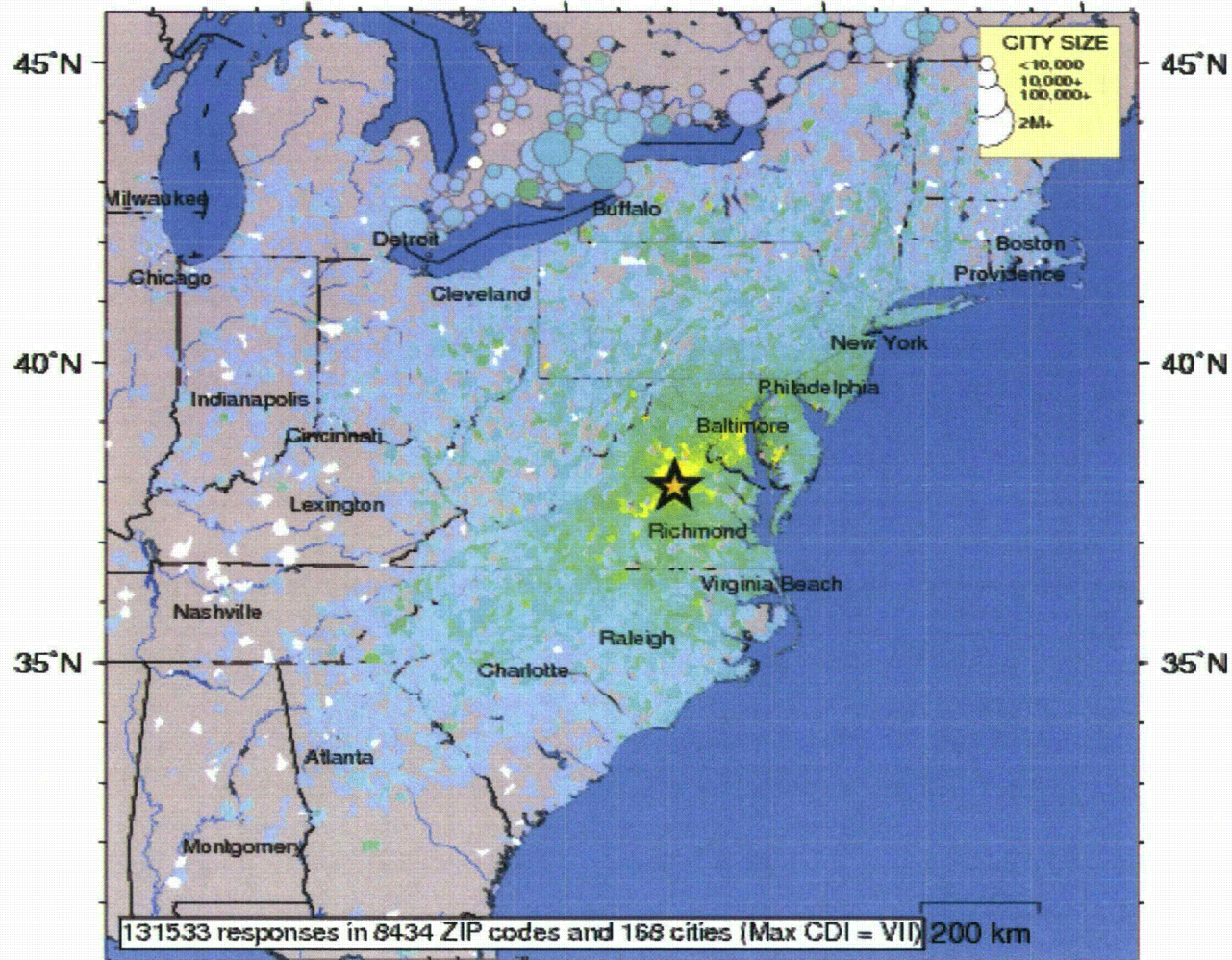
INTENSITY	I	II-III	IV	V	VI	VII	VIII	IX	X+
SHAKING	Not felt	Weak	Light	Moderate	Strong	Very strong	Severe	Violent	Extreme
DAMAGE	none	none	none	Very light	Light	Moderate	Moderate/Heavy	Heavy	V. Heavy

Processed: Thu Aug 25 19:07:18 2011



# USGS Community Internet Intensity Map VIRGINIA

Aug 23 2011 01:51:04 PM local 37.936N 77.933W M5.8 Depth: 6 km ID:se082311a



	85°W		80°W			75°W	70°W		
INTENSITY	I	II-III	IV	V	VI	VII	VIII	IX	X+
SHAKING	Not felt	Weak	Light	Moderate	Strong	Very strong	Severe	Violent	Extreme
DAMAGE	none	none	none	Very light	Light	Moderate	Moderate/Heavy	Heavy	V. Heavy

Processed: Thu Aug 25 18:12:04 2011