

December 13, 2011

Ms. Marilyn C. Kray
Vice President
New Plant Development
Exelon Generation
200 Exelon Way
Kennett Square, PA 19348

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION LETTER NO. 14
(SRP SECTION: 02.05.01 – BASIC GEOLOGIC AND SEISMIC INFORMATION)
RELATED TO THE VICTORIA COUNTY STATION EARLY SITE PERMIT
APPLICATION

Dear Ms. Kray:

By letter dated March 25, 2010, Exelon Nuclear Texas Holdings, LLC (Exelon) submitted an early site permit application for Victoria County Station pursuant to 10 CFR Part 52. The U.S. Nuclear Regulatory Commission (NRC) staff is performing a detailed review of this application.

The NRC staff has identified that additional information is needed to continue portions of the review. The staff's request for additional information (RAI) is contained in the enclosure to this letter. To support the review schedule, you are requested to respond within 60 days of the date of this letter. If the RAI response involves changes to application documentation, Exelon is requested to include the associated revised documentation with the response.

If you have questions or comments concerning this matter, please contact Michael Eudy at 301 415-3104 or by email at Michael.Eudy@nrc.gov.

Sincerely,

/RA/

Michael A. Eudy, Project Manager
Licensing Branch 3
Division of New Reactor Licensing
Office of New Reactors

Docket No. 52-042

eRAI Tracking No.6170

Enclosure: Request for Additional Information

Ms. Marilyn C. Kray
Vice President
New Plant Development
Exelon Generation
200 Exelon Way
Kennett Square, PA 19348

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Enclosure: Request for Additional Information

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**via email*

NRO - 002

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|---------------|--------------|-------------|-------------|------------|--------------|
| OFFICE | LPM:DNRL/LB3 | BC:NRO/RGS2 | BC:NRO/RGS1 | OGC | LPM:DNRL/LB3 |
| NAME | TGovan* | ASTieve* | RKaras* | SPrice* | MEudy |
| DATE | 11/17/2011 | 11/07/2011 | 11/15/2011 | 11/21/2011 | 12/13/2011 |

OFFICIAL RECORD COPY

Request for Additional Information No. 6170 Revision 0

Victoria County Station ESP
Exelon Texas
Docket No. 52-042
SRP Section: 02.05.01 - Basic Geologic and Seismic Information
Application Section: 2.5.1

QUESTIONS for Geosciences and Geotechnical Engineering Branch 2 (RGS2)

02.05.01-22

The USGS reported the Texas October 20, 2011 earthquake as a shallow (3 km, poorly constrained), Mw 4.8 earthquake with moment tensor solution of normal fault movement oriented northeast. The staff notes that both this earthquake and the November 12, 2011 Mw 3.3 event are located ~65 miles west of VCS, possibly near the surface expression of the Luling and Balcones fault zones. In order for staff to evaluate regional tectonic features within the 200 mile radius of VCS in its review of the VCS application and in support of 10 CFR 100.23, please provide the following:

Provide a discussion that examines the Texas earthquakes (October 20 and November 12, 2011) and implications for a VCS regional tectonic feature that might be considered a capable fault that originates within the Ouachita basement rock, beneath the Gulf Coast Coastal Plain sedimentary section. Include in your discussion the alternative possibilities that the Texas earthquake is induced or that it is a small seismic event on an active growth fault. Additionally, consider and discuss the possibility of an error in the location of the earthquake and the implications that a location error could have on all the above and related event fault and source interpretations.

ENCLOSURE

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cc:

(Revised 11/16/2011)

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