

May 24, 2012

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

SUBJECT: ENVIRONMENTAL REQUEST FOR ADDITIONAL INFORMATION  
LETTER NO. 11, RELATED TO NONRADIOLOGICAL HEALTH IMPACTS FOR  
THE VICTORIA COUNTY STATION EARLY SITE PERMIT APPLICATION

Dear Ms. Kray:

By letter dated March 25, 2010, Exelon Nuclear Texas Holdings, LLC (Exelon) submitted its application to the U.S. Nuclear Regulatory Commission (NRC) for an early site permit (ESP) for the Victoria County Station site in accordance with the requirements contained in Title 10 of the *Code of Federal Regulations* (CFR) Part 52, "Licenses, Certifications and Approvals for Nuclear Power Plants." The NRC staff is performing a detailed review of this application to enable the staff to reach a conclusion regarding the environmental impacts of the proposed action.

The NRC staff has identified that additional information is needed to continue portions of the environmental 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 45 days of the date of this letter. If you are unable to provide a response within 45 days, please state when you will be able to provide the response. In the event the response submitted is incomplete, please indicate in the response when the complete response will be provided. If changes are needed to the ESP application, the staff requests that the RAI response include the proposed wording changes. Your response should also indicate whether any of the information provided is to be withheld as exempt from public disclosure pursuant to 10 CFR 2.390.

M. Kray

- 2 -

If you have any questions or comments concerning this matter, you may contact me at 301-415-1488 or via e-mail at [Tomeka.Terry@nrc.gov](mailto:Tomeka.Terry@nrc.gov).

Sincerely,

**/RA/**

Tomeka Terry, Environmental Project Manager  
Environmental Projects Branch 2  
Division of New Reactor Licensing  
Office of New Reactors

Docket Nos. 52-042  
eRAI Tracking No. 6455

Enclosure:  
As stated

cc: w/enclosure see next page

If you have any questions or comments concerning this matter, you may contact me at 301-415-1488 or via e-mail at [Tomeka.Terry@nrc.gov](mailto:Tomeka.Terry@nrc.gov).

Sincerely,

**/RA/**

Tomeka Terry, Environmental Project Manager  
Environmental Projects Branch 2  
Division New Reactor Licensing  
Office of New Reactors

Docket Nos. 52-042  
eRAI Tracking Nos. 6455  
Enclosure:  
As stated

cc: w/enclosure see next page

**DISTRIBUTION:**

TTerry, NRO	AWilliamson, NRO	SPrice, OGC
EPB2 R/F	MEudy, NRO	RJenkins, NRO
LGoldin,OGC	PMadden, NRO	AHisa, NRO
RidsNroDsea	DPalmrose, NRO	JFringer, NRO
RidsOgcMailCenterResource		NRORidsNroDnrlEpb2
HAvci, ANL <a href="mailto:avci@anl.gov">avci@anl.gov</a>		
KWescott, ANL <a href="mailto:wescott@anl.gov">wescott@anl.gov</a>		
SKamboj, ANL <a href="mailto:skamboj@anl.gov">skamboj@anl.gov</a>		
JHudson, USACE ( <a href="mailto:jayson.m.hudson@usace.army.mil">jayson.m.hudson@usace.army.mil</a> )		

**ADAMS Accession Number: ML12145A569**

**NRO-002**

<b>OFFICE</b>	NRO/DNRL/ LA	NRO/DNRL/EPB2/PM
<b>NAME</b>	MBrown**	TTerry*
<b>DATE</b>	05/24/2012	05/24/2012

\* Approval captured electronically in the electronic RAI system.

\*\*concurred via email

**OFFICAL RECORDS COPY**

Request for Additional Information  
No. 6455 Revision 0

Victoria County Station ESP  
Exelon Texas  
Docket No. 52-042

SRP Section: ESP EIS 4.8 - Nonradiological Health Impacts  
Application Section: Part 3, Environmental Report Sections 2.7.7 and 5.3.4

QUESTIONS for Environmental Projects Branch 2 (EPB2)

ESP EIS 4.8-1

NRH 4.4.1-1 ESRP Section 4.4.1 directs the staff to review the physical impacts of construction-related activities on the community. Existing gas/oil wells are mentioned multiple places in the environmental report (ER) but potential impacts to the construction workers from these wells are not discussed. Discuss impacts to construction workers from existing oil and gas wells on the Victoria County Station (VCS) site.

NRH 4.4.1-2 ESRP 4.4.1 requires evaluating impacts associated with noise generated during construction activities. ER Section 2.7.7 includes a table of estimated long-term equivalent sound pressure levels from different phases of construction at three distances but it is not clear why these three distances were selected. Provide a list of locations that are vulnerable to noise impacts. Provide the distances from the proposed construction activity to the nearest sensitive areas and associated noise impacts.

NRH 5.3.4.1-1 ESRP Section 5.3.4 directs the staff to review the human health impacts associated with the plant's cooling system. ER Section 5.3.4.1 states that the maximum temperature of the effluent would be 100 °F. ER Section 5.3.2 states that Segment 1803 of the Guadalupe River (where the blowdown would occur) has been assigned a site-specific, absolute maximum temperature criterion of 93° F. Provide an explanation of how liquid discharges at 100° F as noted in Section 5.3.4.1 (and others) would meet the state regulation that the liquid discharge temperature be less than 93° F.

NRH 5.3.4.1-3 ESRP Section 5.3.4 directs the staff to review the human health impacts associated with the plant's cooling system. Has the Texas Department of State Health Services been contacted concerning the incidence of etiological agents in Texas within Segment 1803 of the Guadalupe River? State agencies may be able to provide more recent data than the Centers for Disease Control on waterborne disease and outbreaks. The latest data provided in ER Section 5.3.4.1 is from 2008 (i.e., four years old). Provide documentation of any correspondence with the Texas Department of State Health Services in support of the evaluation of etiological agents in the vicinity of the discharge from the VCS units into the Guadalupe River.