

PMVictoriaESPPEm Resource

From: Eudy, Michael
Sent: Tuesday, July 10, 2012 10:43 AM
To: David.Distel@exeloncorp.com
Cc: Stieve, Alice; Karas, Rebecca; VictoriaESP Resource
Subject: Draft Information Needs and Audit Itinerary
Attachments: Victoria Info Needs(geol+geotech+seis).docx; VC_Information Audit_Aug2012_Itin.docx

David,

Here is our staff's information needs and draft itinerary for our upcoming seismic/geotech audits in August. Please let me know when we can have a call to discuss. We will also send a more formal draft audit plan most likely later this month or early August. Thanks.

Michael A. Eudy - Project Manager
U.S. Nuclear Regulatory Commission
NRO/DNRL/LB3
301-415-3104

Hearing Identifier: Victoria_ESP_Public
Email Number: 709

Mail Envelope Properties (9E28710E0B702149AEC6639728636440D1AEFC44BF)

Subject: Draft Information Needs and Audit Itinerary
Sent Date: 7/10/2012 10:43:06 AM
Received Date: 7/10/2012 10:43:39 AM
From: Eudy, Michael

Created By: Michael.Eudy@nrc.gov

Recipients:

"Stieve, Alice" <Alice.Stieve@nrc.gov>
Tracking Status: None
"Karas, Rebecca" <Rebecca.Karas@nrc.gov>
Tracking Status: None
"VictoriaESP Resource" <VictoriaESP.Resource@nrc.gov>
Tracking Status: None
"David.Distel@exeloncorp.com" <David.Distel@exeloncorp.com>
Tracking Status: None

Post Office: HQCLSTR01.nrc.gov

Files	Size	Date & Time
MESSAGE	403	7/10/2012 10:43:39 AM
Victoria Info Needs(geol+geotech+seis).docx	23198	
VC_Information Audit_Aug2012_Itin.docx	20387	

Options

Priority: Standard
Return Notification: No
Reply Requested: No
Sensitivity: Normal
Expiration Date:
Recipients Received:

Victoria County, Texas site audit

August 21, 2012

Information Needs for Geotech (section 2.5.4, 2.5.5)

For Texas visit

Staff would like to examine SPT boring samples in moisture-sealed glass jars (according to SSAR) under/near Category I Structures:

- B-2174A: Representative boring samplers from Clay 1-T through Sand 18,
- B-2274A: Representative boring samplers from Clay 1-T through and Clay 17,
- B-2180: Representative boring samplers from Clay 1-T through Sand 6,
- B-2280: Representative boring samplers from Clay 1-T through Sand 6,
- B-2182A: Representative boring samplers from Clay 1-T through Sand 11,
- B-2282A: Representative boring samplers from Clay 1-T through Clay 11,
- B-2176: Representative boring samplers from Clay 1-T through Sand 6,
- B-2276A: Representative boring samplers from Clay 1-T through Sand 6,
- B-3170A: Representative boring samplers from Clay 1-T through Clay 9, and
- B-3270A: Representative boring samplers from Clay 1-T through Clay 9.

Staff would like to examine photographs of samples:

- some photos taken from SPT samples corresponding to above-mentioned borings and layers,
- some photos for bulk soil samples from test pits for various locations and layers over the site,
- some photos taken for the lab test to demonstrate undisturbed soil samples, and
- the plots for boring profiles for verification and discussion purposes during the site visit.

For Frederick, MD visit

Staff would like to examine information and calculation packages on the following topics in Frederic MD

- Static and dynamic bearing capacity
- Static and dynamic Lateral earth pressure
- General and differential settlement including elastic settlement and consolidation settlement
- Liquefaction analyses
- P-wave velocity data and figures

Staff would like clarification to the following:

- Are any undisturbed samples still available in the labs?
 - Can you provide:
 1. Reference 2.5.4-15 by Davie, J.R. and M.R. Lewis "Settlement of Two Tall Chimney Foundations", and
 2. Reference 2.5.4-16 by Senapathy, H., Clemente, J.L.M., and J.R. Davie "Estimating Dynamic Shear Modulus in Cohesive Soils"?
-

Information Needs for Geology (sections 2.5.1 and 2.5.3)

For Texas visit

1. Show staff the geomorpho-stratigraphic elements of the site area as they specifically pertain to understanding the Beaumont Formation and to understanding how you distinguish geomorphic features from surface expression of growth faults. Based on your geologic map show staff
2. Show staff the so-called fluvial LiDAR lineaments to the NW of the power block area, near the mapped location of GM-K.
3. Show staff the location of GF D expressed at the surface as interpreted from LiDAR ~500 ft from proposed power block area. We would also like to walk out your profile #2 (NW to SE line) and #3 (NE to SW line).
4. Show staff the immediate vicinity of the proposed power block , especially the SE border and the area to the NE of power block.
5. Show staff representative core sections from your boring program to explain the internal stratigraphy of the Beaumont formation in the site area (5 mi radius).
6. Please explain and demonstrate with core samples how pics were determined to build the geotechnical cross sections especially over growth fault D on the site location.
7. Show staff the location of GF E south of the site where it crosses Kuy Creek and where it intersects McFaddin Rd.
8. Show staff the area on the San Antonio flood plain where growth fault E crosses and LiDAR shows surface deformation.
9. Please have on hand LiDAR and geologic maps with your interpretations of fault and fluvial lineaments.

For Frederick, MD visit

10. Explain the difference between the seismic reflection profiles used by Exelon for the SSAR and the 3D seismic reflection profiles submitted to the contention file by TSEP with respect to 3 surface faults within VC site boundaries.
11. Please plan to discuss RAI responses to:

RAI 2.5.1-3
RAI 2.5.1-4
RAI 2.5.1-5
RAI 2.5.1-6
RAI 2.5.1-8
RAI 2.5.1-9
RAI 2.5.1-10
RAI 2.5.1-11
RAI 2.5.1-12
RAI 2.5.1-15

Information Needs for Seismology (section 2.5.2)

For Frederick, MD visit

Staff would like to examine information and calculation packages on the following topics:

- Site Response Analysis
- Probabilistic Seismic Hazard Analysis (PSHA) Implementation

- Plots (or Electronic Copies) of all Individual Seismic Sources' Hazard Curves (for all Ground Motion Frequencies) Used in the PSHA Study
- Analysis and data associated with Victoria County Station ESP Request for Additional Information No. 6482 Question 02.05.02-11

ITINERARY

Victoria County Information Audit for Chapter 2.5

August 20 through Aug 30

Victoria, Texas and Frederick, MD

Date	Time period	Item
Victoria, Texas		
Mon, Aug 20	All day	<ul style="list-style-type: none"> • Travel from HQ to Victoria, TX, • Exelon overview at hotel
Tues, Aug 21	AM	<ul style="list-style-type: none"> • Field trip to examine GF D on site; stream drainages that cross fault; • Geomorphic features of local landscape that are the basis of Beaumont Formation unit on the geologic map, • Site: facilities location, core examination
	PM	<ul style="list-style-type: none"> • Field trip to examine offsite growth faults (D & E) on the San Antonio flood plain, GF E south of the site and where it crosses McFadden road, • LiDAR lineament associated with GF K to north of site.
Wed, Aug 22	AM	Exit meeting
	PM	Return trip to HQ
Frederick MD		
Wed, Aug 29	AM	Concurrent sessions for seismology, geotechnical
	PM	Concurrent sessions for seismology, geotechnical
Thur, Aug 30	AM	Concurrent sessions for geology, seismology, geotechnical
	PM	Public meeting portion Technical discussion of RAI responses for Geol