UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION II
SAM NUNN ATLANTA FEDERAL CENTER
61 FORSYTH STREET, SW, SUITE 23T85
ATLANTA, GEORGIA 30303-8931

February 8, 2008

Mr. Kenneth A. Ainger
Director, New Plant Licensing
Exelon Nuclear
KSA-3N, Suite 320
Kennett Square, PA 19348

SUBJECT: ERRATA LETTER FOR EXELON MATAGORDA COUNTY SITE VISIT REPORT DATED OCTOBER 12, 2007

Dear Mr. Ainger:

Our letter, dated October 12, 2007, subject "Site Visit to Exelon Matagorda County to Observe Combined License Pre-Application Subsurface Investigation Activities (Project No. 762)"', referenced the wrong project number. The project number should be "761". The ADAMS Accession Number for that document is ML072850946. Please replace the cover letter and report pages with the enclosed letter and report. We regret any inconvenience.

Should you have any question concerning this matter, please contact me at 404-562-0544.

Sincerely,

/RA/

Mark S. Lesser, Chief
Construction Inspection Branch 1
Division of Construction Inspection

Project No. 761

Enclosure: As stated

cc w/encls: (See next page)

cc w/encl:
Ms. Michele Boyd, Legislative Director
Energy Program
Public Citizens Critical Mass Energy
and Environmental Program
215 Pennsylvania Avenue, SE
Washington, DC 20003

Exelon Nuclear
Correspondence Control Desk
200 Exelon Way, KSA1-N
Kennett Square, PA 19348

Mr. Marvin Fertel
Senior Vice President
and Chief Nuclear Officer
Nuclear Energy Institute
1776 I Street, NW
Suite 400
Washington, DC 20006-3708

Ms. Marilyn Kray, President
NuStart Energy Development, LLC
200 Exelon Way, KSA3-N
Kennett Square, PA 19348

Mr. William Maher
Exelon Generation
200 Exelon Way, KSA2-N
Kennett Square, PA 19348

Dr. Gail H. Marcus
U.S. Department of Energy
Room A-14
1000 Independence Avenue, SW
Washington, DC 20585

Mr. Thomas Mundy
Director, Project Development
Exelon Generation
200 Exelon Way, KSA3-E
Kenneth Square, PA 19348

Mr. John O'Neill
Pillsbury, Winthrop, Shaw, Pittman
2300N. Street, NW
Washington, DC 20037

Email Distribution w/encl:

Adrian Heymer -NEI
Anne W. Cottingham -NEI
C. Waltman- ROE
Charles Brinkman -Westinghouse
Chris Maslak - GE
David Lewis - Pillsburylaw
David Lochbaum - UCSUSA
Donald Woodlan - TXU
Frank Quinn - Hursttech
George Madden - BV
George Stramback -GE
James J. Nesrsta - CPS Energy
James Riccio -WDC Greenpeace
James Gresham - Westinghouse
Jay M. Gutierrez - Morgan Lewis
John O'Neil - Pillsburylaw
Joseph Hegner - DOM
Joseph Savage - GE
Kathryn M. Sutton - Morgan Lewis
Kenneth O. Waugh - Impact - Net
Maria Webb - Pillsburylaw
Mark Beaumont - WSMS
Matias Travieso-Diaz - Pillsburylaw
Michael Mariotte - NIRS
Mike Moran - FPL
Patricia L. Campbell - GE
Paul Gunter - Beyond Nuclear
Paul Gaukler - Pillsburylaw
Paul Hinnenkamp - Entergy
Peter Hastings - Duke Energy
R.K. Temple - CPS Energy
Robert E. Brown - GE
Roberta Swain - GE
Ronald Hagen - EIA DOE
Rosemarie E. Waraks - Westinghouse
Russell Bell -NEI
Sandra Sloan -AREVA
Sarah Lynch - GAO
Scott Peterson - NEI
Stephen P. Frantz - Morgan Lewis
Steve A. Bennett -BV

cc w/encl:
Ms. Michele Boyd, Legislative Director
Energy Program
Public Citizens Critical Mass Energy
and Environmental Program
215 Pennsylvania Avenue, SE
Washington, DC 20003

Exelon Nuclear
Correspondence Control Desk
200 Exelon Way, KSA1-N
Kennett Square, PA 19348

Mr. Marvin Fertel
Senior Vice President
and Chief Nuclear Officer
Nuclear Energy Institute
1776 I Street, NW
Suite 400
Washington, DC 20006-3708

Ms. Marilyn Kray, President
NuStart Energy Development, LLC
200 Exelon Way, KSA3-N
Kennett Square, PA 19348

Mr. William Maher
Exelon Generation
200 Exelon Way, KSA2-N
Kennett Square, PA 19348

Dr. Gail H. Marcus
U.S. Department of Energy
Room A-14
1000 Independence Avenue, SW
Washington, DC 20585

Mr. Thomas Mundy
Director, Project Development
Exelon Generation
200 Exelon Way, KSA3-E
Kenneth Square, PA 19348

Mr. John O'Neill
Pillsbury, Winthrop, Shaw, Pittman
2300N. Street, NW
Washington, DC 20037

Distribution w/encls:
C. Patel, NRO
M. Shuaibi, NRO
B. Clayton, NRO
Y. Li, NRO
M. Lesser, RII
C. Julian, RII
J. Fuller, RII
Public

■ PUBLICLY AVAILABLE ☐ NON-PUBLICLY AVAILABLE ☐ SENSITIVE ■ NON-SENSITIVE

ADAMS: ☐ Yes ACCESSION NUMBER: ML080430159

OFFICE	RII:DCI	RII:DCI					
SIGNATURE	JDF	CAJ					
NAME	JFuller	CJulian					
DATE	2/1/2008	2/1/2008					
E-MAIL COPY?	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO

OFFICIAL RECORD COPY DOCUMENT NAME: G:\CIP\INSPECTION REPORTS\NEW REACTORS\EXELON MATAGORDA COUNTY\ERRATE LETTER MATAGORDA COUNTY SITE VISIT REPORT.DOC

UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION II
SAM NUNN ATLANTA FEDERAL CENTER
61 FORSYTH STREET, SW, SUITE 23T85
ATLANTA, GEORGIA 30303-8931

October 12, 2007

Mr. Kenneth A. Ainger
Director, New Plant Licensing
Exelon Nuclear
KSA-3N, Suite 320
Kennett Square, PA 19348

SUBJECT: SITE VISIT TO EXELON MATAGORDA COUNTY TO OBSERVE COMBINED LICENSE PRE-APPLICATION SUBSURFACE INVESTIGATION ACTIVITIES (PROJECT NO. 761)

Dear Mr. Ainger:

On September 11, 2007, Region II inspectors conducted a site visit at the Exelon Matagorda County site accompanied by members of the Office of New Reactors (NRO) staff. The purpose of the site visit was to observe combined license (COL) pre-application subsurface investigation activities being conducted to obtain geotechnical/seismic data to support a COL application for a new nuclear power plant. These observations will provide background information for the NRC's future review of the expected COL application for the Exelon Matagorda County site.

Enclosed is a summary of the site visit, that includes a list of NRC participants and persons with whom discussions were held.

Sincerely,

/RA/

Mark S. Lesser, Chief
Construction Inspection Branch 1
Division of Construction Inspection

Project No. 761

Enclosure: As stated

cc w/encls: (See next page)

Enclosure

OBSERVATION OF COMBINED LICENSE (COL) PRE-APPLICATION
SUBSURFACE INVESTIGATION ACTIVITIES AT EXELON MATAGORDA COUNTY SITE
PROJECT NUMBER 761

Purpose of Site visit:

A site visit was conducted on September 11, 2007 by Nuclear Regulatory Commission (NRC) Region II and Office of New Reactors (NRO) staff. NRC inspectors observed combined license (COL) pre-application subsurface investigation activities conducted to obtain geotechnical and seismic data at the proposed location of two new nuclear power plants at Exelon's greenfield site in Matagorda County, Texas. Although this visit was not an official NRC inspection the inspectors utilized the following documents for guidance:

- NRC Inspection Manual Chapter 2502, "Construction Inspection Program: Pre-Combined License (PRE-COL) Phase"
- NRC Inspection Procedure 35004, "Pre-Docketing Early Site Permit Quality Assurance Controls Inspection"
- NRC Inspection Procedure 45051, "Geotechnical/Foundation Activities Procedure Review"

The visit served to ascertain whether adequate quality assurance controls had been established and were being implemented and to assess whether the technical requirements for geotechnical exploration for a COL had been adequately addressed through specifications, drawings, and work procedures.

Principal Persons Contacted:

K. Ainger, Exelon
J. Bauer, Exelon
J. Cowhill, Bechtel
S. Criscento, MACTEC
R. Janowiak, Exelon
A. Kottenstette, MACTEC
L. Kummen, Bechtel
J. Martin, MACTEC
J. Ng, Bechtel
B. Rapuynski, Exelon
A. Shaw, Bechtel
J. Triplett, Bay City Tribune
K. White, MACTEC
C. Wiegan, Exelon

NRC Inspectors:

C. Julian, Senior Project Manager, RII
J. Fuller, Construction Inspector
C. Abbott, Construction Inspector Trainee

NRC Accompanying Personnel:

C. Patel, Senior Project Manager, NRO
Y. LI, NRO
J. Thompson, NRO
J. George, NRO

Background:

By letters dated May 31, 2007 and September 5, 2007 Exelon informed the NRC of its proposed schedule for geophysical testing intended to support a COL application for the greenfield site. A COL is a combined construction permit and operating license with conditions for a nuclear power facility pursuant to 10 CFR Part 52 Subpart C. Exelon contracted Bechtel to prepare the COL application. Bechtel has contracted MACTEC to conduct the site studies and perform the soil sample accumulation and testing required for the application.

Overview of Subsurface Investigation Activities Discussed and/or Observed:

Exelon planned to use the subsurface investigations to provide data to determine site suitability for a COL. The scope of the site characterization activities included various field and geotechnical laboratory tests such as: soil borings (disturbed and undisturbed samples), cone penetrometer testing, geophysical testing (down-hole logging and suspension P-S velocity logging), observation well installation, test pit installation, and permeability tests. The site investigation included 81 borings, and 13 observation wells. The depths of the boreholes varied from 100 to 600 feet. It was noted that continuous sampling was being performed on two of the borings.

Field work was being performed under the MACTEC Quality Assurance (QA) program which consisted of the MACTEC QA manual supplemented by a QA project document. A MACTEC QA representative performed surveillances and monitored the project for compliance. There was a full time onsite Bechtel representative to provide continuous oversight. Periodic surveillances were performed by Bechtel management and Exelon QA personnel. The inspectors observed appropriate quality control and technical site characterization procedures and verified that the following attributes were adequate:

- Approved and documented instructions, procedures, and drawings were in use for site characterization activities.
- Measures were implemented for test control and control of special processes and engineering direction was readily available.
- Measures existed to identify and resolve non-conformances and conditions adverse to quality.
- For site characterization activities performed by vendors, appropriate oversight and procurement controls were implemented.

Inspectors reviewed the following surveillance reports:

- Quality Surveillance Report 25352-QSSS-07-001, Bechtel Surveillance of MACTEC
- Quality Surveillance Report 25352-QSSS-07-002, Bechtel Surveillance of MACTEC
- Surveillance Number SR-2007-088, Exelon Surveillance of MACTEC

- Quality Surveillance Report 25352-QSSS-07-003, Bechtel Surveillance of MACTEC
- Surveillance Report Numbers (ExelonM Sv1 – Sv5), MACTEC internal surveillances

Drilling and Sampling Observed:

Observation of work in progress included pressuremeter testing, obtaining core samples and the generation of logging records. The inspectors verified that work was being performed in accordance with appropriate procedures. Seven drilling rigs were operating during the site visit. Each drilling operation was controlled by a MACTEC rig geologist and each rig worked to an individual work instruction. Interviews were conducted with rig geologists and technicians. Personnel were knowledgeable of applicable quality assurance and technical requirements.

Specifically, the inspectors observed in-process work activities for borings B176 and B274. Boring B176 is a 200 foot hole, and the inspectors observed the rig geologist take a disturbed sample at 129.3 feet to 130.8 feet. The inspectors also observed the rig geologist make the standard penetration test blow count measurement. Boring B274 is a 600 foot boring, and the inspectors observed in-process drilling and held discussions with the rig geologist regarding work instructions, applicable ASTM specifications and other quality assurance program requirements. The inspectors reviewed the MACTEC soil sample inventory sheet to confirm that the boring samples were being properly stored and logged in a controlled manner.

The inspectors observed that work was being performed in accordance with NQA-1 Subpart 2.20, Quality Assurance Requirements for Subsurface Investigations for Nuclear Power Plants and project specifications. Inspectors also observed that MACTEC had posted 10CFR Part 21 information in the appropriate work locations.

The work observed was in accordance with applicable ASTM standards and procedure requirements. The rig geologist field boring logs were detailed and provided a good record of boring results. Samples were collected and stored in accordance with standard practices for preserving and transporting samples. The sample storage facility was located in a locked trailer. The inspectors visited the sampling storage facility, and reviewed core samples and logging records.

NRO staff members reviewed regional geologic and physiographic maps. In addition, NRO staff members reviewed site maps of boring locations, which included locations of core sampling for stratigraphic control, seismic downhole velocity testing and standard penetration tests, as well as water observation wells. NRO staff members discussed with the potential applicant, existence of growth faults in the area, dewatering methods for the site, proposed backfill materials, and materials with low shear wave velocity detected at the subsurface of the site.

Geotechnical subsurface investigation activities were being adequately controlled with an appropriate level of supervisory and quality assurance oversight and in accordance with procedural requirements and industry standards. The QA program implementation was evaluated by discussing nonconformance reports (NCRs) generated to date. The inspectors determined that a low threshold for issuing NCRs was evident, indicating a robust implementation of the QA Program.