

**BEFORE THE
OHIO POWER SITING BOARD**

In The Matter Of:)	
The Application of South Field Energy, LLC for a)	Case No .15-1716-EL-BGN
Certificate of Environmental Compatibility and Public)	
Need for the Construction of the South Field Energy)	
Generation Facility in Columbiana County)	

In The Matter Of:)	
The Application of South Field Energy, LLC for a)	Case No .15-1717-EL-BTX
Certificate of Environmental Compatibility and Public)	
Need for a Transmission Line and Switching Station)	
in Columbiana County)	

INITIAL TESTIMONY OF

WILLIAM R. BEACH

ON BEHALF OF FIRSTENERGY INTERVENORS

AMERICAN TRANSMISSION SYSTEMS, INCORPORATED,

AND OHIO EDISON COMPANY

1 **Q. PLEASE STATE YOUR NAME, EMPLOYER, BUSINESS ADDRESS AND**
2 **POSITION.**

3 A. My name is William R. Beach. I am employed by the FirstEnergy Service Company.
4 My business address is 76 South Main Street, Akron, Ohio 44308. I am a Manager in
5 the Transmission Engineering Group of the Energy Delivery organizational unit.
6 Additional information regarding my education and work experience can be found in
7 Attachment A to this testimony.

8
9 **OBSERVATIONS THAT WILL ASSIST THE READER WITH**
10 **UNDERSTANDING THIS TESTIMONY**

11
12 **Q. BEFORE TURNING TO SUBSTANTIVE MATTERS, DO YOU HAVE ANY**
13 **OBSERVATIONS THAT WILL ASSIST THE READER WITH**
14 **UNDERSTANDING THIS TESTIMONY?**

15 A. Yes. My testimony is being submitted in these proceedings before the Ohio Power
16 Siting Board (“Board”) for a Certificates of Environmental Compatibility and Public
17 Need (“Certificate”) based on applications submitted by South Field Energy, LLC to
18 (1) construct a new, 1100-MW natural gas fired combined-cycle electric generating
19 facility in Columbiana County, (Case No. 15-1716-EL-BGN) and (2) construct a new
20 345 kilovolt (kV) transmission line and an associated switching station in
21 Columbiana County (Case No. 15-1717-EL-BTX).
22 The transmission line and switching station being reviewed by the Board will, if
23 constructed, connect the new generation facility to FirstEnergy Intervenor’s electric

1 transmission grid. My testimony is being offered in both of these consolidated
2 proceedings.

3 For the readers' convenience, in my testimony, I refer to American Transmission
4 Systems, Incorporated ("ATSI"), Ohio Edison Company ("OE"), FirstEnergy Service
5 Company, FirstEnergy Corp. and other FirstEnergy Corp. subsidiaries and affiliates,
6 collectively as FirstEnergy. Also, when referring specifically to ATSI and OE, as
7 Intervenors in these proceedings, I refer to them jointly as FirstEnergy Intervenors.

8 Also, when in my testimony I refer to FirstEnergy's right-of-way, I am referring to
9 FirstEnergy's property rights for its electric infrastructure, which includes owned real
10 property, other real property rights granted through easements, leases, license
11 agreements, permits, and similar agreements and documents.

12 Finally, in my testimony, I generally refer to the Project as incorporating the
13 generation facility, 345kV transmission line and switching station. If necessary for
14 purposes of clarity, I may refer to individual portions of the Project, but in general,
15 the concerns identified below related to construction of the Project apply generally
16 and should be construed, unless otherwise specifically stated, to the generating
17 facility, and the 345 kV transmission line and associated switching station, that are
18 pending before the Board in the captioned proceedings.

19 **Q. WHAT IS THE PURPOSE OF THIS TESTIMONY?**

20 A. I am providing this testimony on behalf of Intervenors American Transmission
21 Systems, Incorporated ("ATSI") and Ohio Edison Company ("OE"), both subsidiaries
22 of FirstEnergy Corp. The FirstEnergy Intervenors are participating as a parties in this
23 proceeding to ensure that the construction of the South Field Energy, LLC

1 (“Applicant” or “SFE-L”) generation station and the proposed switching station, as
2 well as other transmission facilities, are consistent with the current and planned future
3 uses of the FirstEnergy Intervenors’ electric infrastructure and that the Applicant and
4 the Ohio Power Siting Board are aware of, and take into consideration, FirstEnergy
5 Intervenors’ requirements and the applicable safety standards for construction of the
6 Project within or near the FirstEnergy Intervenors’ electric infrastructure.
7 FirstEnergy Intervenors are also seeking clarification on the intent of the Applicant
8 with respect to the transfer of ownership of the switch yard following construction.
9

10 **BACKGROUND AND EXPERIENCE**

11
12 **Q. HOW LONG HAVE YOU BEEN EMPLOYED BY FIRSTENERGY SERVICE**
13 **COMPANY, FIRSTENERGY CORP., OR IT’S OTHER SUBSIDIARIES OR**
14 **PREDECESSOR COMPANIES?**

15 A. I have been employed with FirstEnergy Service Company, a FirstEnergy company,
16 continuously since November 2007.

17 **Q. HOW LONG HAVE YOU BEEN IN YOUR CURRENT POSITION?**

18 A. I was promoted to my current position in March 2016. Previously, I worked as
19 Supervisor, Energy Delivery Support in the FirstEnergy Environmental Department.

20 **Q. PLEASE DESCRIBE YOUR CURRENT POSITION.**

21 A. In my current position, I manage and provide guidance, leadership and supervision to
22 a staff of 22 professionals in the Transmission Engineering group that are responsible
23 for 1) siting and regulatory approvals for FirstEnergy’s new transmission lines and

1 substations in Ohio, Maryland, New Jersey, Pennsylvania, Virginia and West
2 Virginia; 2) surveying activities for FirstEnergy's new transmission lines and
3 substations in Ohio, Maryland, New Jersey, Pennsylvania, Virginia and West
4 Virginia; and 3) Right-of-Way engineering for transmission line projects that are
5 generally designed at FirstEnergy's Akron, Ohio office. In this position, I support
6 FirstEnergy in developing transmission line route siting studies, transmission
7 substation siting studies, and associated regulatory filings. This includes working with
8 internal and external resources including consultants, and FirstEnergy's Legal
9 Department, Real Estate Department, transmission and substation engineers and
10 designers, Environmental Services Department, Public Communications, Regional
11 Organizations, Area Managers and the Project Management Department. The unit's
12 activities are structured to ensure that the required transmission siting regulatory
13 approvals are diligently pursued.

14 In this position, I also support FirstEnergy's design engineering area, by supervising
15 the group's efforts in providing complete and accurate survey and right-of-way
16 engineering required for the design and acquisition of right-of-way for new facilities.

17 When supporting and working with the Real Estate Department and Transmission
18 Designers, the unit's activities ensure that the required property rights are identified,
19 documented, and acquired to support the construction, operation and maintenance of
20 the proposed facilities. The unit's activities also provide survey support as required
21 for Substation Engineering, Transmission Maintenance, Vegetation Management, and
22 Real Estate Departments.

1 Finally, due to my familiarity with the siting process, as well as my knowledge and
2 experience with the FirstEnergy's electric infrastructure, I support FirstEnergy's
3 process of reviewing requests from other entities to use or modify portions of
4 FirstEnergy's property and rights of way for activities including the construction of
5 other utilities and structures. In this capacity, I support FirstEnergy's review of
6 proposals from third parties to use FirstEnergy real property and rights-of-way by
7 assigning staff from technical groups that are up-to-date on installation and
8 construction practices applicable to the construction of new electric infrastructure and
9 applicable and necessary safety requirements for construction activities that occur in,
10 near or around existing electric infrastructure. Proposals are reviewed for consistency
11 with the operation and maintenance of existing FirstEnergy facilities, potential
12 reconstruction or expansion of those facilities, and for future expansion of the electric
13 grid. The review of third party proposals to use or modify FirstEnergy's real property
14 and rights of way also includes detailed consideration of safety issues, the stability of
15 existing or future structures, and clearance requirements of the National Electrical
16 Safety Code applicable to FirstEnergy transmission and other facilities.

17 **Q. STARTING AFTER HIGH SCHOOL GRADUATION, PLEASE TELL US**
18 **YOUR EDUCATIONAL BACKGROUND.**

19 A. I earned a Bachelor of Science degree in Geology from Mount Union College in May
20 1990. In August 2002 I graduated with a Master of Science in Geology from Wright
21 State University.

1 **Q. DO YOU HAVE ANY PROFESSIONAL LICENSES OR CERTIFICATIONS?**

2 A. Yes, I am a Certified Professional Geologist (CPG) with the American Institute of
3 Professional Geologists (AIPG); my certificate number is 10613.

4 **Q. HAVE YOU EVER HAD TO TESTIFY PREVIOUSLY IN PROCEEDINGS**
5 **BEFORE THE BOARD?**

6 A. No.

7
8 **BASIS FOR FIRSTENERGY INTERVENORS PARTICIPATION IN THESE**
9 **PROCEEDINGS**

10
11 **Q. WHY DID THE FIRSTENERGY INTERVENORS SEEK PARTY STATUS IN**
12 **THIS PROCEEDING?**

13 A. FirstEnergy Intervenors have several compelling interests in this proceeding.
14 Significantly, the Applicant has indicated in its application to the Board that “[t]he
15 Switchyard will be developed and constructed by SFE in cooperation with First
16 Energy; it is anticipated that ownership and operation of the switchyard will be
17 transferred to First Energy upon completion and testing.” *Application to the Ohio*
18 *Power Siting Board for a Certificate of Environmental Compatibility and Public*
19 *Need – SFE Interconnection Facilities*, at page 43 (Case No. 15-1717-EL-BTX).
20 ATSI is generally amenable to SFE constructing the switchyard, but only as
21 permitted under the applicable PJM Interconnect, LLC, (“PJM”) requirements. As
22 the Board is aware, the interconnection of this Project to the FirstEnergy
23 Intervenors’ transmission system will require the approval of PJM as the regional

1 transmission operator (“RTO”). FirstEnergy Intervenors will require Applicant, as
2 part of the PJM process, to meet all applicable FirstEnergy construction and
3 engineering requirements for the switching station, and will generally not accept
4 ownership unless such requirements are met to the satisfaction of FirstEnergy.

5 FirstEnergy Intervenors are uncertain if the Applicant is committing to the transfer of
6 the ownership of the Switchyard to ATSI in the Application. The Application
7 indicates that the Applicant anticipates that ownership will transfer, but such
8 language is sufficiently vague to raise concerns that Applicant may not ultimately
9 transfer ownership of the Switchyard once it is constructed and operational. Unless
10 this vagueness is resolved, Intervenor ATSI cannot properly assess its role in this
11 proceeding, as it remains uncertain if it will have to comply with the Board’s
12 Certificate for the switchyard.

13 FirstEnergy Intervenors, therefore, believe the Board should not issue an Order until
14 either 1) the Applicant commits to retain ownership and operational and
15 maintenance responsibility for the switchyard; or, 2) the Applicant commits to
16 transfer ownership to Intervenor ATSI in accordance with all applicable PJM
17 requirements. I note that at the time of the filing of this testimony, the Applicant had
18 not agreed to proposed language in a condition that would resolve this uncertainty,
19 although FirstEnergy Intervenors remain optimistic that this issue will be resolved.

20 Additionally, FirstEnergy Intervenors sought intervention in this proceeding because
21 it is unclear from the Applications whether or not construction for both the
22 generation station and the associated transmission facilities, including potential
23 construction access routes and laydown areas(s), were located on real property

covered by FirstEnergy Intervenor's easements or were sufficiently close to existing transmission facilities to create safety or operational concerns. In particular, the generation site is crossed by existing ATSI transmission facilities that are located within existing FirstEnergy right-of-way, FirstEnergy Intervenor sought party status to ensure that the Certificate mandated that construction activities and long term operation and maintenance of the Project in or near FirstEnergy Intervenor's existing electric infrastructure be fully consistent with FirstEnergy Intervenor's existing easements and the appropriate safety and operational requirements for those new facilities.

Q. DO THE FIRSTENERGY INTERVENORS OPPOSE LOCATING THE PROPOSED GENERATING FACILITY OR THE ASSOCIATED TRANSMISSION FACILITIES WITHIN OR NEAR ITS ELECTRIC INFRASTRUCTURE?

A. No, we do not oppose locating the proposed facilities outside of the existing easements of the electric infrastructure. If a permanent or temporary portion of the proposed facilities must be located within the existing easements of FirstEnergy's electric infrastructure, we believe those facilities can coexist with the proposed generation station and associated transmission facilities, if the design of the proposed facilities is adequately coordinated and designed and installed so as to not impact the existing electric infrastructure and grid. For facilities that must be located within the existing easements of FirstEnergy's electric infrastructure, to ensure that the proposed Project is compatible with FirstEnergy Intervenor's existing electric infrastructure and the planned future use of that infrastructure, three significant activities must

1 occur. First, the Applicant and FirstEnergy must identify, discuss and adjust as
2 necessary the specific location, design and installation process for the Project.
3 Second, the Applicant and FirstEnergy must reach an agreement that ensures
4 FirstEnergy has the opportunity to review and approve the construction of the
5 portions of the Project that might impact FirstEnergy's electric infrastructure. Third,
6 the Applicant and FirstEnergy must work to ensure that the Project is designed,
7 constructed, and implemented in accordance with the agreement. By working
8 cooperatively, FirstEnergy and the Applicant can eliminate or minimize impacts to
9 the operation and maintenance and future use of the existing electric infrastructure
10 and address safety and construction practices within the electric infrastructure right-
11 of-way.

12 In the absence of a commitment that the Applicant will not install any temporary or
13 permanent facilities within the existing easements of FirstEnergy's electric
14 infrastructure, and in the absence of implementing the three critical path activities,
15 FirstEnergy Intervenors would contend that the Project cannot meet the requirements
16 for the issuance of a Certificate from the Board, as the Certificate could not ensure
17 that the Project will protect the economy and reliability of the regional transmission
18 system, nor will it ensure that the Project meets the public interest, convenience and
19 necessity.

1 **Q. IS IT THE EXPECTATION OF THE FIRSTENERGY INTERVENORS THAT**
2 **THEY WILL BE ABLE TO REACH AN ACCEPTABLE FINAL**
3 **AGREEMENT WITH THE APPLICANT?**

4 A. Yes, although there is not a specific agreement between FirstEnergy and Applicant
5 related to the construction of the Project, there was a productive conference call on
6 June 16, 2016 and there have been continuing conversations regarding FirstEnergy
7 Intervenor's concerns. FirstEnergy Intervenor's have no reason to believe that the
8 Applicant cannot meet the requirements for the construction of the Project, provided
9 either that the Applicant engages FirstEnergy Intervenor's in the appropriate
10 discussions that result in agreement before Applicant undertakes construction
11 activities or Applicant agrees to keep all construction activities out of FirstEnergy
12 Intervenor's rights of way.

13 Absent an agreement with Applicant, in order to ensure that Applicant meets the
14 requirements for this Project related to the economy and reliability of transmission
15 system, as well as the public interest, convenience and necessity, and does so before
16 construction, FirstEnergy Intervenor's recommend that the Board adopt the following
17 conditions in Order authorizing the Project:

18
19 *Condition 1: Applicant's construction of the Switchyard is only authorized if the*
20 *Applicant constructs the switchyard in accordance with all applicable PJM*
21 *requirements and all applicable agreements with FirstEnergy. Ownership of the*
22 *switchyard will transfer to Intervenor ATSI in accordance with all applicable PJM*
23 *requirements.*

1 *Condition 2: Prior to commencing construction on real property that: (1) has any*
2 *FirstEnergy Intervenors' Electric Infrastructure; or (2) is immediately adjacent to*
3 *any FirstEnergy Intervenors Electric Infrastructure, Applicant shall obtain all*
4 *necessary clearances and approvals from FirstEnergy Intervenors, which shall be*
5 *confirmed in a joint filing with the Board at least seven (7) days prior to the*
6 *commencement of construction in these areas. For purposes of this condition, and*
7 *conditions 3 and 4 below, "Electric Infrastructure" shall include, without limitation,*
8 *electric distribution and/or transmission circuits, electric towers, electric poles, right-*
9 *of-way for electric distribution or transmission lines, electric transmission or*
10 *distribution corridors, substation sites, and other property or structures related to the*
11 *production, transmission or distribution of electricity, wherever located. This*
12 *condition applies only to those parts of the Project that are on, or adjacent to,*
13 *FirstEnergy Intervenors' Electric Infrastructure.*

14
15 *Condition 3: The Applicant shall provide FirstEnergy Intervenors, with drawings,*
16 *construction access plans, worker safety plans, and other technical information*
17 *related to any construction in, near, or adjacent to, FirstEnergy Intervenors' Electric*
18 *Infrastructure, for purposes of allowing FirstEnergy Intervenors the opportunity to*
19 *review the plans prior to construction to ensure the protection of FirstEnergy*
20 *Intervenor's Electric Infrastructure. Earthwork, unrestricted equipment access, and*
21 *the staging of equipment and/or construction materials beneath and/or immediately*
22 *adjacent to FirstEnergy Intervenors' Electric Infrastructure shall be minimized to the*
23 *maximum extent possible. Applicant shall reach an agreement with FirstEnergy*

1 *Intervenors on the exact location and details of the Project's construction in, or*
2 *adjacent to, FirstEnergy Intervenors' Electric Infrastructure and shall obtain*
3 *necessary land rights to permit the use of FirstEnergy Intervenors' Electric*
4 *Infrastructure prior to the start of construction of these parts of the Project.*

5
6 *Condition 4: Applicant shall ensure that all construction access plans, worker safety*
7 *plans and all other elements of the technical and engineering design of Project are*
8 *consistent with, and comply with, all required authorizations, and applicable industry*
9 *codes or best practices, for the construction and operation of the Project in, near, or*
10 *adjacent to, Electric Infrastructure.*

11
12 FirstEnergy believes that by including these conditions in the Certificate, the Board
13 will ensure that the Project meets the need for economy and reliability in the
14 transmission grid and serves the public interest, convenience and necessity by being
15 installed in a safe manner that is fully consistent with the operation, maintenance and
16 future use of FirstEnergy's existing electric infrastructure. Without these conditions,
17 FirstEnergy Intervenors do not believe that the application or the proposed conditions
18 in the Staff Report related to the construction of the Project are adequate to meet the
19 requirements for the issuance of the Certificate.

20 **Q. ARE THERE ONGOING DISCUSSIONS WITH APPLICANT ON THESE**
21 **ISSUES?**

22 A. Yes. There are current discussions on these issues that are likely going to result in
23 proposed conditions for inclusion in the Board's Certificate. However, as these

1 discussions have not resulted in an agreement, FirstEnergy Intervenors are currently
2 requesting that the Board issue the Certificate only subject to these proposed
3 conditions.

4 **Q. WHY IS COORDINATION NECESSARY WITH RESPECT TO SAFETY**
5 **CONSIDERATIONS?**

6 A. As I mentioned previously, coordination between the Applicant and FirstEnergy to
7 identify, discuss and adjust the specific location, design and installation of the
8 proposed facilities is key to ensuring the safe construction of the Project. Without
9 this level of coordination, the Project will not meet the statutory requirements for
10 being in the public interest, convenience and necessity. FirstEnergy Intervenors
11 contend that only the construction of the Project in accordance with all applicable
12 safety codes, and FirstEnergy Intervenors requirements will ensure the safety of the
13 Project as well as the reliability of the overall transmission system.

14 **Q. DOES THIS CONCLUDE YOUR INITIAL DIRECT TESTIMONY?**

15 A. Yes it does. However, I would like to reserve the right to supplement my initial
16 testimony if anything changes with respect to the status of the Applications, the status
17 of discussion with the Applicant, the submittal of a stipulation between Applicant and
18 FirstEnergy Intervenors, on any proposed revisions to the Staff's Recommended
19 Conditions, or anything raised in any direct pre-filed testimony filed by the other
20 intervening parties in this case.

CERTIFICATE OF SERVICE

I hereby certify that a copy of the foregoing *Initial Testimony of William R. Beach* was served upon the following persons by electronic filing and by emailing a copy on June 17, 2016 to:

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ATTACHMENT

RESUME OF WILLIAM R. BEACH

William R. Beach, CPG

Manager, Siting, Survey & Right of Way

A-GO-3

(330)384-5524

Education & Certification	FirstEnergy New Supervisors and Managers Program	2012
	Master of Science, Geology, Wright State University,	1992
	Bachelor of Science, Geology, Mount Union College,	1990
	Certified Professional Geologist American Institute of Professional Geologists:	CPG# 10613
Professional Work History	Hull & Associates, Inc., Solon, OH	1996 – 2007
	Shareholder	2005 - 2007
	Supervisor / Unit Manager	2000 - 2007
	Contract Env. Professional, BP Amoco	1998 - 2000
	Shaw, Weiss & DeNaples Corp., Dayton, OH Project Hydrogeologist	1991 – 1996

Professional Experience

FirstEnergy

Transmission and Substation Engineering:

Manager, Siting, Survey and Right of Way

March 2016 - present

Leading the FirstEnergy Siting Group in the Siting of new, and modification of existing transmission facilities. This includes management of a work process that utilizes both internal staff and consultants, and coordination with transmission and substation engineers and designers, as well as Legal, Real Estate, Planning, Public Communications, Project Management, External Manager work elements, and Regional Organizations. Also supporting FirstEnergy's Transmission and Substation Engineering Design area by managing the group's efforts in providing accurate survey and right-of-way engineering required for the design and acquisition of right-of-way for new facilities. This group also provides survey support for Substation Engineering, Transmission Maintenance, Vegetation Management and Real Estate departments.

Responsibilities:

- Ensuring that all applicable regulatory approvals related to transmission siting activities are secured and adhered to.
- Preparing budget estimates for transmission siting, right-of-way engineering and right-of-way acquisition for proposed transmission projects.
- Developing and monitoring schedules for the completion of transmission siting, right-of-way engineering and right-of-way acquisition processes to support the in-service dates of the proposed transmission projects.
- Preparing work scope, soliciting proposals, recommending purchase orders for siting, survey and right-of-way consultants and administering project implementation and invoicing.
- Developing, monitoring and modifying siting, surveying and right-of-way acquisition practices as needed.
- Monitoring and modifying procedures and equipment to enhance efficiency and encourage innovation.
- Developing accurate and timely right-of-way engineering and acquisition estimates.
- Supervising personnel required to perform the above activities

Environmental Department:

Supervisor, Energy Delivery Support

November 2007 – March 2016

Responsibilities:

- Energy Delivery – Transmission Siting, Substations, and Distribution:
 - Identifying Project ecological constraints and defining permitting strategy;
 - Coordinating efforts to secure Federal, State and Local environmental permit authorizations;
 - Confirming permit compliance through construction and project closeout; and
 - Supporting soils and materials management requirements associated with construction and maintenance activities.
- Right-of-way – Real Estate and Transmission Maintenance:
 - Endangered Species Act and Avian Issues coordination;
 - Transmission Maintenance access requirements (e.g. culvert permitting and maintenance);
 - Surface water runoff / drainage issues; and
 - Open dumping issues.
- Forestry Support – Transmission and Distribution Vegetation Maintenance
 - Providing guidance with routine maintenance and construction clearing.
 - Confirming agency and public coordination and compliance requirements related to herbicide refusals;
 - Compliance with NPDES permits for herbicide discharge within each of the FE Service Area States; and
 - Engagement with local Land Managers, and State and Federal Wildlife agencies to reconcile perceived conflicts between threatened and endangered species and necessary vegetation maintenance activities.
- Environmental Governance and Remediation
 - Permitting support of maintenance dredging of power plant intakes;
 - Permitting support of site operation expansions, and relicensing at Perry and Davis Besse Nuclear Plants;
 - Submerged Land Lease Agreements for properties along Lake Erie shoreline;
 - Siting, expansion and closure of Coal Combustion Products Disposal Sites in Ohio and PA;
 - Superfund (CERCLA) Enforcement Actions in Ohio; and
 - Company technical contact with US and Ohio EPA, and MetroParks Serving Summit County regarding Gorge Dam

Overview of prior work experience

1991 - 2007

Brownfields Redevelopment

Senior Project Manager and Program Manager for site investigation and remedial design/implementation of urban redevelopment projects in Northeast Ohio. These Projects secured State of Ohio Department of Development grants totaling \$9M. Managed Project Teams including Remedial Investigation, Risk Assessment, Feasibility Studies, Remedial Design and Engineering and Construction. Served as main Client contact and Regulatory liaison for both PRP Group (Owner) and Redeveloper. Provided deposition testimony during settlement negotiations between responsible parties. Implemented investigative and remedial activities under State and Federal regulatory programs including CERCLA, RCRA, BUSTR, Ohio's Voluntary Action Program and US EPA's Pilot Voluntary Corrective Action Program.

Petroleum Industry Regulatory Compliance

Served as a Contract Environmental Professional with BP Amoco for two years managing facility operation and closure compliance under State Fire Marshal regulatory programs. Managed site assessment, divestiture and acquisition and corrective action projects for a portfolio of over 100 properties in Ohio and West Virginia.

Hydrogeologic Site Characterizations: Landfill Siting

Coordinated data collection and multi-media sampling activities, which included the sampling and monitoring of surface and ground water, soils, sediments, wetland vegetation and aquatic macro-invertebrates. Developed hydrogeologic models for sites considering hydrologic budgets, ground water flow and contaminant fate and transport. Utilized 2- and 3-dimensional analytical and numerical flow models, including HELP, BIOSCREEN and MODFLOW.

Hydrogeologic Site Improvements

Managed the design and implementation of pilot testing programs designed to improve the quality of impacted site runoff and control fugitive dust emissions at an inactive industrial monofill. Coordinated field activities for site drainage improvements and various dust suppression techniques. Presented Project updates to Owner, Ohio EPA and the U.S. Army Corps of Engineers, as well as to a local Environmental Activist Group.

Groundwater Resource Exploration and Development

Field Hydrogeologist during exploration and hydraulic testing of glacial outwash aquifers for municipal water supply expansion. Oversaw the installation of monitoring wells, exploration borings and test wells by way of rotasonic, hollow stem auger and cable-tool drilling techniques. Participated in the design, implementation and interpretation of controlled draw down and recovery tests to estimate aquifer hydraulic parameters. Projects typically included streambed seepage evaluation of a nearby rivers to evaluate surface water/ground water interconnection.

Construction Dewatering: Hydraulic Containment/Management of Ground water

Evaluated construction dewatering influences on a ground water contaminant plume proximate to proposed sanitary sewer alignments and a water treatment plant expansion area. Simulated various construction dewatering scenarios using numerical ground water flow and transport modeling and assisted in the design of a counter flow pumping system designed to minimize the migration of contaminated ground water into previously uncontaminated areas.

Evaluated construction dewatering impacts to a nearby wetland during the installation of a large diameter sanitary sewer. Anticipated pumping scenarios were modeled for developing construction dewatering specification designed to minimize impacts to the wetlands. Developed and implemented a water level monitoring program that documented dewatering influences during construction.

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in

Case No(s). 15-1717-EL-BTX

Summary: Testimony of William Beach on behalf of FirstEnergy Intervenors electronically filed by Mr. Robert J Schmidt on behalf of American Transmission Systems Inc. and Ohio Edison