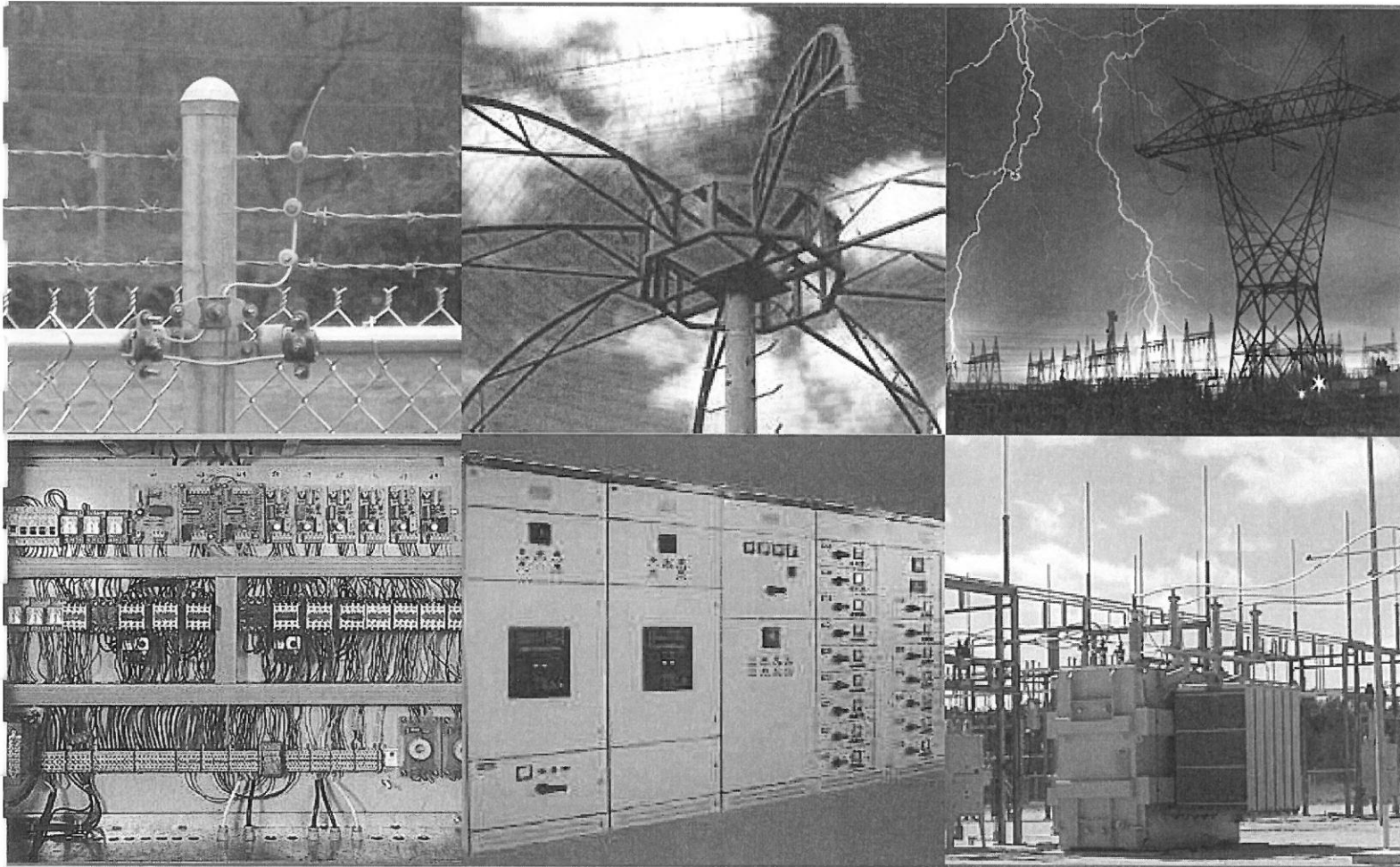




Original

West Virginia Division of Corrections Lakin Correctional Center

Engineering, Design, and Construction Support
Expression of Interest: COR61697



Proposal No. 112PCE6635

May 6, 2014

05/07/14 09:05:27AM
West Virginia Purchasing Division

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Attachement A - Assigned Staff Resumes

May 6, 2014

State of West Virginia
Department of Administration
Purchasing Division
2019 Washington Street East
Charleston, West Virginia 25305-0130

Solicitation Number: COR61697
Engineering Services
Lakin Correctional Facility
West Columbia, West Virginia
Tetra Tech, Inc. Proposal No. 112PCE6635

Dear Sir or Madam:

Tetra Tech, Inc. (Tetra Tech) would like to present our interest in performing the engineering, design and technical services for the Lightning Arrestor and Surge Suppression System. Tetra Tech's electrical engineering department has multiple engineers, electrical designers, and technicians that have worked in all areas of the power industry. A highly experience section of engineering services has also worked in soil studies including resistivity testing. It has been, and always will be, our goal to go above and beyond the expected services required to complete our projects. Tetra Tech's number one objective is to provide all of the services in the safest and most complete way possible for both our client and everyone else involved.

1.0 INTRODUCTION TO TETRA TECH

As a premier worldwide engineering and design firm, Tetra Tech provides the experience necessary to successfully provide design and construction engineering services for the Lakin Correctional Facility located in West Columbia, West Virginia.

Tetra Tech's electrical engineering group bidding on this Project has an extensive level of experience in all types of engineering. This includes work in all areas ranging from electrical drafting to the project management in generation, distribution, switchgears and controls. Our office has worked on over 100 engineering, design and construction management projects on both generation and electrical distribution systems.

2.0 KEY TECHNICAL STAFF

Tetra Tech's services can provide 100% of the preliminary inspections, soil testing, engineering calculations, designs, contractor/vendor bidding, technical construction assistance and onsite construction management. Our assigned technical staff to the Project will include:

- **Philip Arbogast - Project Manager/Senior Electrical Engineer**
Mr. Arbogast has over 12 years of experience in the electrical industry including generators, switchgears, motor control centers, control systems, electrical protection systems, surge protection and arc-flash studies. His work has involved substation design and construction including lightning arrestor systems. He has worked on troubleshooting and repairs to a high number of power supply systems. His

troubleshooting has included imbalance calculations, short circuit analysis, replacement/upgrade for reliability and surge protection. Mr. Arbogast provides a high level of technical assistance to construction crews in most of his projects.

- **Joseph Kuhel - Senior Electrical Designer**

Mr. Kuhel has over 38 years of experience in the low and mid-voltage design industry. He has extensive experience in both electrical distribution and control system design. His work ranges from preliminary designs to detailed construction drawings. Mr. Kuhel's designs also provide all material lists and connection diagrams. He provides technical assistance in all of his design projects.

- **Curt Ward - Electrical Designer/Draftsman**

Mr. Ward has worked in the designer industry for over 20 years and has experience in all major areas of electrical design work. He has worked on all areas of electrical design and draft work ranging from generation to controls.

- **James Coffman - Geophysicist**

Mr. Coffman has a high level of experience leading, performing, and interpreting results for hundreds of surface and borehole geophysical surveys. His experience in near-surface geophysics is comprehensive, having routinely performed geophysical investigations from inception to completion (from client call, through proposal and survey, to report preparation). His concentration has been in surveys using electromagnetics (EM), ground penetrating radar (GPR), magnetics, seismic refraction, electrical resistivity, borehole geophysics, and utility location equipment.

- **William Randall P.G., LRS - Senior Geophysicist / Hydro Geologist**

Mr. Randall has over 26 years of experience as an environmental consultant. He has scoped, performed, and managed geophysical surveys, environmental compliance audits/reviews, environmental permitting, environmental site assessments, multimedia investigations, soil and groundwater remediation, agency negotiations. WVDEP experience includes landfill delineation using electromagnetics and downhole video inspection and monitoring well network evaluation under the LCAP program.

- **Joseph Micikas - Senior Structural Engineer**

Mr. Micikas has over 35 years of experience in the structural side of engineering and design. He works with the electrical department in designing the foundations and structures required to construct and install any generation, distribution or transmission systems.

3.0 PREVIOUS EXPERIENCE PROJECTS

- **Indspec Chemical Plant Lightning Protection**

Project Manager - Jeff Cadman (412) 829-3601

A full engineering project was performed to provide lightning protection at an existing chemical plant. The station had received damage caused by lightning multiple times in the past. Mr. Kuhel was the senior designer of the protection system. The facility had a soil study performed to provide the resistance measurements required to design the modifications that were performed. An engineering study and investigation was performed on the electrical and control equipment in the areas involved in this project. Bidding and technical assistance was provided during all phases of construction to make sure that everything was completed correctly.

- **Kinder Morgan Tank Farm Lightning Protection System**

Project Manager - Jeff Cadman (412) 829-3601

This job involved the soil study, engineering investigation, lightning protection system design and construction manage with technical assistance. A soil resistivity study was performed by the Geophysics department to determine what was needed in the design for proper grounding to tie the structures to. A design of a grounding grid and proper ties of the equipment was completed and included in a bid package

for materials and construction. Mr. Kuhel performed the completed design of the lightning protection system.

Routine bi-weekly conference calls and meetings were held to update the client on scheduling and answer any questions. Technical assistance was provided to both the client and construction contractor. The project was not considered complete until the system was tested and under operation.

- **Power Distribution Center Protective Systems**

Project Manager - Dean Shauers (303) 705-9341

The distribution center projects were to engineer, design and coordinate the construction of multiple power distribution centers at a commercial facility. A section of this project was to tie multiple stations together to provide backup power to all locations from a single power source if either of the main electrical supplies were to go offline. A grounding grid design including surge protection systems were included in the project engineering package. The soil study used in the engineering design was performed by one of our geophysics units.

Tetra Tech handled all of the bidding processes and provided a letter of recommendation for all stages of the project. Technical assistance was provided during all stages of construction.

- **Substation Design and Construction**

Project Manager - Philip M Arbogast (412) 829-3611

A transmission to distribution substation was designed to provide power to a facility located in Ringgold, TX. Substation designs call for a full soil study to be completed for both foundation and electrical grounding. The soil study was performed by one of Tetra Tech's units. The electrical substation design included a grounding grid and URL system. Towers and a lightning conductors were designed to cross above the substation and provide adequate protection. Surge protection systems for both controls and distribution equipment were included in the design.

Mr. Arbogast was the senior engineer that reviewed all of the electrical designs for the substation and coordinated all construction with the client, contractor and utility company.

4.0 APPROACHES TO ENGINEERING AND DESIGN

- Work with WV Division of Corrections to gather any existing drawings and specifications on the existing equipment and system.
- Tetra Tech will provide an extensive soil resistivity study at the facility. This is required to design the proper grounding grid and existing system modifications to protect against lightning.
- Perform onsite testing and investigation of the existing electrical equipment to correct the electrical imbalance issues and prevent future equipment damage. Inspect the existing system to perform modifications to get all equipment within NEC standards.
- Test results from our geophysics department will be prepared and delivered to the WVDOC to be reviewed. Any questions and concerns will be answered or addressed.
- Tetra Tech's engineering and geophysics staff will meet with the WVDOC to review all of the possible approaches to upgrade and improve the correctional facility electrical grounding system. Review to make sure all technical details and customer requirements are met and/or exceeded.
- Prepare the detailed engineering designs of the approved system.
- A presentation of required new equipment and construction will be reviewed to provide the setup of a bid package used for vendor materials and contractor services.
- A detailed and fully assembled bid package including designs, drawings, specifications, test results and materials will be provided to the WV Purchasing Department.
- Bid drawings delivered to bid out the contracting and materials.
- Tetra Tech will fully assist in the contractor and vendor bidding process. All of the bids will then be technically and financially reviewed to choose the best service.

5.0 CONSTRUCTION MANAGEMENT

- A detailed assembly of engineering designs including new equipment and modifications to the existing system will be issued for construction.
- Tetra Tech will work extensively with the correctional facility and utility provider to coordinate any disconnects required on the incoming power to properly and safely perform the work on the project.
- Extensive services will be provided with the contractors to temporarily install generation systems to supply electricity to the equipment required to be offline during construction.
- Technical assistance will constantly be provided to the contractor and facility during the construction phase of the project.
- Tetra Tech can provide a full time onsite construction technical advisor if requested.

6.0 CONCLUSION

Tetra Tech's group of highly experienced engineers, technicians, and designers are dedicated to providing top-of-the-line services in the electrical engineering fields to our clients. Tetra Tech would like to provide you with a fully-engineered service package and technical construction management that exceeds your expectations.

Resumes of the assigned staff are located in Attachment A.

Please contact me by phone at 412-829-3611 or by email at Philip.Arbogast@tetrattech.com with any questions.

Sincerely,



Philip M. Arbogast
Senior Electrical Engineer

PMA/ml
112pce6635-61697-ltr-pma

Attachments

ATTACHMENT A
ASSIGNED STAFF RESUMES

PHILIP M. ARBOGAST

Senior Electrical Engineer

EXPERIENCE SUMMARY

Mr. Arbogast currently works as a senior electrical engineer and project manager. Mr. Arbogast specializes in the areas of electrical design, project coordination/management. The design and project management areas include electrical distribution systems, transmission systems and protective equipment. Mr. Arbogast works on low, medium and high voltage equipment.

Worked as a power station engineer in the electrical, mechanical and civil fields. Mr. Arbogast performed the writing of operational and maintenance procedures used in a power station environment. Worked as the coordinator of the design and upgrades to existing and new equipment used in a power station to provide a safer and more efficient environment. Mr. Arbogast worked as a writer of investment reviews for capital and special maintenance projects. Managed multiple testing and construction projects. Coordinated contractors in various projects, repairs and maintenance operations.

Worked as an engineer in transmission and distribution system designs for electrical power supply. Performed the field inspection of transmission and distribution power lines and structures. Coordinated the environmental and right-of-way clearances through private, city, state and federal land for modifying existing transmission and distribution power lines or construction of new sections.

As a field engineer worked on performing inspections, testing and repairs on electrical generation systems. Wrote reports on the inspection results and presented them to customers for proposals to repair/replace items in the generation systems.

RELEVANT EXPERIENCE

Plant Engineering/Construction

Project Manager/Electrical Design; U.S. Dept. of Interior; Transmission/Distribution and Upgrade; \$950,000; Coolidge Arizona; January 2006 to September 2006. This project included the existing electrical transmission/distribution area inspection, surveying, environmental clearance, right-of-way, upgrade design and replacement of a 10 mile section of the power lines. The purpose of this upgrade/replacement was to make the system capable of providing power to new construction in the Gila River Indian reservation and adjacent town. As

EDUCATION

B.S., Electronic Engineering Technology, 2002, West Virginia University Institute of Technology

A.S., Electrical Engineering Technology, 2001, West Virginia University Institute of Technology

REGISTRATIONS

Certified Thermographer – 2003

TWIC Certified

TRAINING/CERTIFICATIONS

Siemens Westinghouse E.I.T Training, 01/2003

ELCID Inspection Training, 10/2002

Thermography, 03/2003

IVARA, 09/2009

SAP, 2007

NERC Arc Flash, 2011

OSHA 30-Hour, 2007

OFFICE

Monroeville, Pennsylvania

YEARS OF EXPERIENCE

12

YEARS WITH TETRA TECH

1

project manager Mr. Arbogast performed the study of the new system requirements, design of the upgrade and coordinated construction of the new design. Mr. Arbogast also oversaw the environmental and right-of-way clearances for the replacement project.

Project Manager/Electrical Design; U.S. Dept. of Interior; Underground Power Distribution Upgrade \$500,000; Casa Grande, Arizona; April 2007 to July 2007. As project manager Mr. Arbogast managed the budgetary estimate and presentation to the customer. Mr. Arbogast managed the approval of the right-of-way required for the new underground entry to the housing sub-division and construction coordination with the customer. As the electrical designer Mr. Arbogast performed the field inspection and design of the replacement conduit/power line distribution system.

Project Manager/Plant Engineer; FirstEnergy; Switchgear Upgrade; \$300,000; New Eagle, Pennsylvania; September 2010 to December 2010. As plant engineer Mr. Arbogast investigated and provided options for upgrades to a power station switchgear and two MCC systems. The project objective was to upgrade the system to more reliable equipment and provide a safer work environment due to arc flash conditions. As project manager Mr. Arbogast provided a project proposal, chose upgrade equipment purchased and managed the project budget.

Project Manager, FirstEnergy; Backup Generation System; \$650,000; New Eagle, Pennsylvania; August 2012 to November 2012. As a project manager/engineer Mr. Arbogast worked on performing a study to determine the best route in providing a reliable emergency backup generation system to plant critical and safety equipment. After the study was completed a report and letter of recommendation was presented to regional management for the best route to upgrade the existing system. Mr. Arbogast then put together a bid package including a design to present to vendors for the proper equipment to be supplied. The best supplier was then selected. The project was rolled over to regional construction management.

Project Engineer/Contractor Coordinator; Allegheny Power Generation; Turbine & Generator Disassemble and Inspection/Repairs. \$2,100,000; New Eagle, Pennsylvania; April 2009 to May 2009. Mr. Arbogast worked as the project specialist and labor coordinator. This included the full disassembly of the unit valves, servos and controls. Mr. Arbogast coordinated a full inspection and repairs to the system if required. This included multiple reports showing the finds and suggested repairs/replacements along with a final unit outage report.

Project Manager/Construction Coordinator; Allegheny Power Generation; Boiler Air Heater Full Replacement; \$1,650,000; New Eagle, Pennsylvania; May 2010 to December 2010. As project manager Mr. Arbogast oversaw the project proposal, upgrades, project budget and completed multiple update and the final completion report. Site work included the equipment inspection and evaluation of all items to be replaced and upgraded to improve performance. As Construction Coordinator Mr. Arbogast coordinated and supervised the contractor labor and equipment to replace all of the components of the air heating system.

CHRONOLOGICAL HISTORY

Senior Electrical Engineer, Tetra Tech, Inc., 2013-Present, Monroeville, PA
Power Station Engineer, FirstEnergy, 2007-2013, Courtney, PA

Electrical Engineering Design/Construction Coordinator, US DOI, San Carlos Irrigation Project,
2004-2007, Coolidge, AZ
Field Engineer, Siemens Westinghouse, 2002-2003, Plum, PA

SCIENTIFIC/TECHNICAL PUBLICATIONS

2012 Arbogast, P.A. "NERC Required System Operations and Reporting," Presented at Mitchell
Power Station, New Eagle, PA, 09-27-2012

MEMBERSHIPS

- N/A

AWARDS

- U.S. Patent on Generator Stator Winding Inspection Technique

JOSEPH J. KUHEL
Electrical Designer/Technician IV

EXPERIENCE SUMMARY

Mr. Kuhel has over 38 years of design experience in electrical and control systems for construction of civil environmental, industrial, commercial, mining, chemical, petro-chemical, nuclear and coal power industries. Developed construction drawings utilizing AutoCAD Version 2010 2D and Microstation V8 from customer specifications and vendor information. Prepared scopes of work, man-hour estimates and material take-off requisitioning, purchasing for electrical projects and development of electrical design standards.

Electrical background includes low voltage and medium voltage design of power system to include one line and control elementary wiring diagrams, schematics, underground routing, motor hookups, grounding, panel fabrication and pole wiring.

Lighting background includes calculations utilizing Lite Pro software, Visual Basic, design of high bay, low bay, floodlighting, fixture schedules and panel schedules.

Communication background Includes design & integration of Fiber Optic, Ethernet, ControlNet, DeviceNet & Foundation Field Bus Systems.

Instrumentation background includes design of Process Control systems utilizing Programmable Controllers (Allen Bradley, Modicon, Texas Instrument & Gould) Fisher Provox, and uninterrupted power supplies to include I/O elementary diagrams, interconnection diagrams, instrument plans, control loops and installation details.

Raceway background includes design of conduit, cable duct and cable tray systems in the following areas: non-hazardous, hazardous (Class I, II and III locations), underground and seismic (Class 1E...nuclear) installations.

Field experience includes assessments of plant conditions, planning approach to construction, field checkout and start-up and electrical construction management. Through experience in safety training, pre and post commissioning punch lists, start-up, scheduling for contractors, vendors and specialized field technical representatives and have establish a good working rapport with both professionals and skilled labor trades.

EDUCATION

Westmoreland County
Community College (two
years)

Triangle Technical School,
Greensburg, PA - AutoCAD

REGISTRATIONS

N/A

TRAINING/CERTIFICATIONS

N/A

OFFICE

Monroeville, PA

YEARS OF EXPERIENCE

38

YEARS WITH TETRA TECH

2

RELEVANT EXPERIENCE

Senior Lead Project Designer; Electrical and Control Systems; GAI Consultants, Inc. Cranberry, PA. Responsible for electrical and control system design and estimating, layout and checking of electrical and control systems for environmental, waste water treatment and power plant applications. Provided project construction management and start-up.

Lead Designer, Electrical Control Systems; River Consulting Inc. Responsible for design and layout, and checking of electrical and control systems for commercial, industrial, petroleum, steel, chemical and power plant applications. Provided project construction management and start-up. Responsible for the design of several ship, barge, rail, and truck loading and unloading systems that encompassed multipump source and destination manifolding systems that included instruments valves, network control (including variable frequency motor drives at 480 and 4,160vac) and safety systems, and inventory management that could deliver up to 126,000 gpm(181Mgpd).

Senior Designer, Electrical and Control Systems; Raytheon Engineers & Constructors. Responsible for chemical plant and bulk mail facilities electrical and control system design and estimating.

Senior Designer, Control Systems; Trimark Engineers. Responsible for the design and layout of control systems for chemical, cement, and iron ore reduction facilities.

Electrical Control Systems Designer; Gluco, Inc. Designed electrical and control systems for injection, compression and transfer molding machines to include review of specifications and codes.

Senior Designer, Control Systems; Trimark Engineers. Completed the design and layout of instrument systems for chemical plants. Performed

Electrical Field Design Technician; Sargent Electric Company. Completed the design and layout of seismically qualified installations within the reactor containment and control buildings.

Electrical Design Technician II; Stearns-Roger Engineering Corporation. Completed the design and layout of electrical and instrumentation installation for oil refineries and chemical plants.

Instrumentation and Electrical Draftsman; Elliott Company. Responsible for the design and layout of compressors, gas turbines, steam turbines and control panels. This includes explosion proof, waterproof and high heat systems.

Electrical Draftsman; Dravo Corporation. Completed the design and layout of pelletizing plants, coal storage areas, steel mills, foundries, fuel pump stations, warehouses, and office buildings.

Mechanical Draftsman; Lehigh Design Company. Responsible for the drafting and detailing of various parts for atomic reactors and shipping modules.

CHRONOLOGICAL HISTORY

Electrical Designer/Technician; Tetra Tech, Inc.; 2012-Present
Senior Lead Project Designer at GAI Consultants, Inc.; 1996-2012
Lead Designer at River Consulting Inc., 1997-2012
Senior Designer at Raytheon Engineers & Constructors, 1996-1997
Senior Designer at Trimark Engineers, 1995-1996
Electrical Control Systems Designer at Gluco, Inc.; 1993-1994
Senior Designer at Trimark Engineers; 1988-1993
Electrical Field Design Technician at Sargent Electric Company; 1982-1987
Electrical Design Technician II at Stearns-Roger Engineering Corporation; 1979-1981
Instrumentation and Electrical Draftsman at Elliott Company; 1978-1979
Electrical Draftsman at Dravo Corporation; 1974-1977

SCIENTIFIC/TECHNICAL PUBLICATIONS

- N/A

MEMBERSHIPS

- N/A

AWARDS

- N/A

CURT F. WARD
Mid-Level CAD Operator

EXPERIENCE SUMMARY

Mr. Ward has over 18 years of experience working in the Engineering field as an Electrical/Mechanical Drafter. He has assisted Electrical and Mechanical Lead Designers in general arrangements drawings, panel layouts, I/O diagrams, interconnection diagrams, schematics, conduit arrangements and schedules, detailing of various mechanical parts and assemblies, developing bill of materials.

RELEVANT EXPERIENCE

Oil and Gas

Developed conduit, single line and grounding drawings for Sunoco Logistics at the Permian Express Corsicana Terminal in Texas.

Assisted Electrical and Mechanical Lead Designers in general arrangements drawings, panel layouts, I/O diagrams, interconnection diagrams, schematics, conduit arrangements and schedules, detailing of various mechanical parts and assemblies, developing bill of materials. Developed master sketches to scale showing relations of proposed installation to existing facilities and exact specification and dimensions. Internet accessing for parts and specifications. Proficient in AutoCAD, Microsoft Excel /Word and Windows XP. Shop wiring and testing on PLC and VFD panels. Documentation management, operation and maintenance manual preparations. Projects: Hot Metal Desulfurization systems, Automatic Bricking machines, Slag Skimmers, Oxygen Lance Cranes, Temperature and Sample Lances.

Developed bid packages for customer drawings and specifications. Reviewing General Contractor drawings, digitizing, establishing a material take off list. Incorporating addendums into the final bid proposal. Involved in job startups reviewing work to be done.

Developed plant routing sketches of instrumentation devices at the Nova Chemical plant in Monaca.

Detailed weld shoes for a tube mill for General Motors.

EDUCATION

High School Diploma, Penn Hills High School

Computer Tech, Pittsburgh, PA

REGISTRATIONS

N/A

TRAINING/CERTIFICATIONS

N/A

OFFICE

Monroeville, PA

YEARS OF EXPERIENCE

18

YEARS WITH TETRA TECH

2

CHRONOLOGICAL HISTORY

Mid-Level CAD Operator; Tetra Tech, Inc.; 2012-Present ; Monroeville, Pennsylvania.

Cad Drafter; Vulcan International Inc.; 2010-2012; Gibsonia, Pennsylvania.

Tile Estimator; Massaro Industries; 2007-2009; Oakmont, Pennsylvania.

Cad Drafter; Vulcan International Inc.; 2000-2007; Gibsonia, Pennsylvania.

Field Coordinator; Orbital Engineering; 1999; Pittsburgh, Pennsylvania.

Cad Drafter; Senior Flexonics; Allison Park; 1998-1999; Pennsylvania.

Draftsman; Vulcan Engineering Company; 1987-1998; Lawrenceville, Pennsylvania,

SCIENTIFIC/TECHNICAL PUBLICATIONS

- N/A

MEMBERSHIPS

- N/A

AWARDS

- N/A

JAMES D. COFFMAN

Geophysicist

EXPERIENCE SUMMARY

Mr. Coffman has 16 years of experience leading, performing, and interpreting results for hundreds of surface and borehole geophysical surveys. His experience in near-surface geophysics is comprehensive, having routinely performed geophysical investigations from inception to completion (from client call, through proposal and survey, to report preparation). His concentration has been in surveys using electromagnetics (EM), ground penetrating radar (GPR), magnetics, seismic refraction, electrical resistivity, borehole geophysics, and utility location equipment. Geophysical targets have included UXO, landfill and disposal boundaries, buried drums, contaminant plumes, top of rock and rock fractures, voids, artifacts, underground storage tanks, septic tanks, and underground utilities among others. Mr. Coffman served as the New York City Area Office Manager for Hager-Richter Geoscience, Inc., while also serving as project manager, crew leader, and data interpreter for geophysical surveys. He has worked with hundreds of environmental professionals, and on large engineering projects such as the 2nd Avenue and Number 7 Line subway tunneling projects in New York City.

RELEVANT EXPERIENCE

Electrical Resistivity Geophysical Projects

Disposal Area Investigation at 14-acre Site; USDA; Beltsville, MD; 2010. EM31 and electrical resistivity surveys performed to locate possible former disposal areas. Collected, processed and interpreted all data, and summarized the geophysical results in a report for submittal to the Client.

Landfill Delineation Investigation at 2-acre Site; NAVFAC Washington; NSF Indian Head, MD; 2009. EM31 and electrical resistivity (sounding) surveys performed to help estimate horizontal and vertical boundaries of a former landfill. Collected, processed and interpreted all data, and summarized the geophysical results in a report for submittal to the Client.

EDUCATION

M.S., Geophysics, 1997,
University of Akron

B.S. Geology, 1995, Edinboro
University of Pennsylvania

TRAINING/CERTIFICATIONS

OSHA 1910.120 40 hr
HAZWOPER

OSHA 1910 HAZWOPER 8-hour
refresher courses annually

American Red Cross Adult 1st Aid
/ CPR (2010)

OFFICE

Pittsburgh, PA

YEARS OF EXPERIENCE

16

YEARS WITH TETRA TECH

7

Top of Bedrock and Karst Terrain DNAPL Investigation, Joplin, MO; 1999. Six week electrical resistivity survey collaborated with the Earth Resources Laboratory of the Massachusetts Institute of Technology performed to help locate top of bedrock and possible solution cavities. Collected all data, and helped summarize the geophysical results in a report for submittal to the Client.

Coal Tar Investigation at 11/2 acre former NYSEG MGP Site, Binghamton, NY; 2000. Electrical resistivity survey collaborated with the Earth Resources Laboratory of the Massachusetts Institute of Technology performed to help locate waste limits. Collected all data, and helped summarize the geophysical results in a report for submittal to the Client.

Top of Bedrock Investigation, Vint Hill Farms Station, Warrenton, VA; 2002. One week electrical resistivity survey performed to help locate top of bedrock and possible overburden transport pathways. Collected, processed and interpreted data, and helped summarize the geophysical results in a report for submittal to the Client.

Electrical Grounding Investigations, Five Proposed Power Plants, Massachusetts; 1999-2000. Electrical resistivity Wenner and Schlumberger soundings performed in accordance with industry-required specifications to provide data to engineers for help in designing grounding systems for power plant structures. Collected data, and helped summarize the geophysical results in a report for submittal to the Client.

CHRONOLOGICAL HISTORY

Geophysicist; Tetra Tech, Inc.; 2007-Present; Pittsburgh, PA
Geophysicist; Geophysical Applications.; 2005-2007; Holliston, MA
Geophysicist; Hager-Richter Geoscience, Inc.; 1998-2005; Orange, NJ

SPECIFIC JOB SKILLS

Expert geophysical operator / data interpreter of: Sting – Swift, Mini-Res, and IRIS Elrec T electrical resistivity meters, GPR (Noggin Smart Cart and SIR3000), EM61, EM31, G856 and G858 magnetometers, RD 4000 pipe and cable locator, MGX II borehole logging system using acoustic televiewer, HPFM, fluid temperature and resistivity, caliper, poly-gamma (natural gamma/SP/SPR), EM and normal resistivity (poly-electric) tools, and a Geovision downhole video camera. Experienced with seismic refraction and cross-hole seismic (Geometrics, ABEM and Bison seismographs, and accelerated weight drop seismic sources), EM34, EM38, VLF (Wadi), EMP-400, GEM 2 and SeaSPY marine magnetometer.

Proficient in AutoCAD LT for creating geophysical report figures (scaled plan maps), spreadsheets, word processors, Windows, DOS, Geosoft (Oasis montaj), Surfer, Grapher, SIP, EchoMapper, RADAN, WellCAD, DAT3IW, DAT 61W, MagMap, Res 2D and RESIX.

MEMBERSHIPS

- N/A

AWARDS

- N/A

WILLIAM RANDALL, P.G., LRS

Senior Geophysicist/Hydrogeologist

EXPERIENCE SUMMARY

Mr. Randall has over 26 years of experience as an environmental consultant. He has scoped, performed, and managed geophysical surveys, environmental compliance audits/reviews, environmental permitting, environmental site assessments, multimedia investigations, soil and groundwater remediation, agency negotiations. WVDEP experience includes landfill delineation using electromagnetics and downhole video inspection and monitoring well network evaluation under the LCAP program.

RELEVANT EXPERIENCE

Selected Geophysical Projects

Resistivity Surveys for Grounding Studies, Numerous Sites for Cell Towers, Western, PA. Performed and managed dozens of resistivity studies for use in the design of grounding systems for ATT Wireless, Cingular, and Sprint. These typically consisted of four point studies for design purposes and three point studies for evaluation of the installed grounds.

Electromagnetic Survey, WVDEP, Moundsville Landfill, WV. Performed an electromagnetic survey to identify the extent of a the Moundsville Landfill under a WVDEP LCAP landfill closure design contract. The information was used to identify outlying areas and ultimately reduce costs by reducing the overall footprint of the landfill cap.

Downhole Video Surveys and Monitoring Well Network Evaluations, WVDEP, 17 Landfills throughout WV. Performed downhole video surveys to evaluate monitoring wells included in the groundwater monitoring networks for 17 Landfills included in the WVDEP LCAP. Recommended improvements to the landfill monitoring networks to reduce costs and better meet the WVDEP monitoring requirements.

Resistivity Imaging, Brine Plume Delineation, Dominion Transmission, Inc., Big Run, PA. Performed and interpreted two-dimensional resistivity imaging of a brine plume. The imaging provided data needed to justify a limited well network.

EDUCATION

M.S. Geology, 1988, Wright State University

B.S. Geology, 1983 Northeastern University

M.B.A. Business, 2013, Indiana University

REGISTRATIONS

Professional Geologist:
Pennsylvania, 1994, No. PG-000725-G

Licensed Remediation Specialist:
West Virginia, 2007, No. 207

TRAINING/CERTIFICATIONS

Ohio EPA – Voluntary Action Program Certified Prof. Training, 2007

US EPA Grant Workshop, 2004

Pennsylvania Land Recycling Program Client Workshop Training, 2004

Pennsylvania Land Recycling Program Training, 1996, 2002

PADEP/BP Vapor Intrusion Training, 2002

OSHA 1910.120 40-Hour HAZWOPER Training; September 1987

OSHA 1910.120 8-Hour Annual Refresher Training; January 2012

OSHA 1910.120 8-Hour Supervisory Training; February 1994

OFFICE

Pittsburgh, PA

YEARS OF EXPERIENCE

26

Additionally, the imaging appeared that the brine plume was being hydraulically controlled by drainage by a natural spring. The source of the brine had been removed and groundwater remediation could potentially be accomplished via this natural drain.

Resistivity Imaging, Karst Investigation, Dupont, Old Hickory, TN. Interpreted 2-dimensional resistivity imaging in this karst (limestone) terrain in conjunction with water quality data to identify likely migration pathways for chlorinated hydrocarbons. The resistivity imaging indicated that a bedrock valley existed and also indicated the approximate extent of this valley. In karst terrains, groundwater flow is typically funneled through these valleys. Once appropriately identified, in-situ remediation approaches (biological and chemical) can utilize this funneling effect to distribute nutrients and reagents.

Resistivity Imaging, Migration Pathway Evaluation, PPL, Martins Creek, PA. As part of the response action and investigation of a fly ash release to the Delaware River, Mr. Randall performed resistivity imaging to locate suitable well locations to intercept groundwater perceived to be a potential pathway for fly ash to enter the Delaware River. This work was done on an emergency basis to help ensure protection of public drinking water supplies. Mobilization, field work, interpretations, the building of a small bridge, and the installation of the monitoring well were completed in a three day period from inception.

Resistivity Profiling/Seismic Refraction/Geophysical Well Logging, Centre County Kepone Site, State College, PA. Aerial photograph interpretation, resistivity profiling, and seismic refraction to identify karst features which may control surface drainage at the site. These surface geophysics methods were augmented by well logging to determine potential subsurface migration pathways. The geophysics, in conjunction with the groundwater quality data, identified the predominant structural features controlling groundwater flow in the vicinity. This resulted in identifying a deeper migration pathway, which was not previously identified.

UXO Avoidance Surveys, Paxtuxent River NAS – Solomons Island, MD. Performed and interpreted gradiometer, total field magnetic, and EM-61 surveys with integrated GPS for identification of potential ordnance. Areas included a former pistol range, a mortar range, a former lagoon, and a landfill containing deactivated marine mines. Scope ranged from landfill delineation to 100 percent coverage in selected areas, depending on objective.

Sampling and Analysis Plan for Munitions Response Program, NWS Charleston, Charleston, SC. Provided technical review of this document pertaining to land and marine based geophysical surveys for the detection of munitions and explosive concerns. Completed bid specifications for performing the geophysical work.

Uniform Federal Policy - Sampling and Analysis Plan for Former Lakehurst Proving Grounds and Bombing Targets Site Inspection, NAES, Lakehurst, NJ. Technical review of this document pertaining to geophysical surveys for detection of munitions and explosive concerns. Completed bid specifications for performing the geophysical work.

Sampling & Analysis Plan for Geophysical Surveys, MCB Quantico, Quantico, VA. Provided technical review of this document pertaining to geophysical surveys for the detection of munitions and explosive concerns. Completed bid specifications for performing the geophysical work.

MRP Site Investigation Report, NAS Brunswick, Brunswick, ME. Provided technical review of this document pertaining to geophysical surveys for the detection of munitions and explosive concerns.

MRP Site Investigation Report, NAS Brunswick, Brunswick, ME. Provided technical review of this document pertaining to geophysical surveys for the detection of munitions and explosive concerns.

Electromagnetic Conductivity Surveys (EM-31), Andersen AFB, Guam. Interpreted previously collected geophysical data and aerial photographs to identify potential disposal and landfill areas. After reviewing data and notes, Mr. Randall was able to significantly reduce the perceived size of disposal areas and landfills by eliminating surface interferences.

Electromagnetic Conductivity/Soil Gas Surveys, Disposal Areas Identification, Naval Air Development Center, Warminster, PA. Mr. Randall designed, performed, and interpreted electromagnetic conductivity and soil gas surveys to identify locations of historic disposal areas identified on aerial photographs. Areas were further evaluated via soil and groundwater samplings as part of the RCRA Facility Investigation.

Electromagnetic Conductivity, Buried Explosives Site, Sisseton, SD. Under the direction of EPA and the USACE Rapid Response Contract, performed EM-61 and EM-31 surveys of a suspected explosives dump site. Area surveyed was identified by FBI explosives dogs. The results of the survey did not support the FBI findings; however, refined data interpretation identified two suspect areas missed by a previous geophysical survey which were confirmed as disposal areas during detonation of the site. Additionally, identification of numerous responsive cobbles and boulders resulted in matting the site to prevent these objects from becoming projectiles during the detonation activities. Geophysical survey and interpretation was completed within 3 days of notification at this remote site.

Electromagnetic (EM-61), Ground Penetrating Radar, and Pipe/Cable Locator Surveys, FUSRAP Site, Tonawanda, NY. Performed several geophysical surveys to assist in site clearance prior to performing site borings for delineation of buried radioactive material and subsequent excavation and proper disposal of Manhattan Project era waste.

Ground Penetrating Radar (GPR) and Construction Support, Molycorp, Washington, PA. Performed a GPR survey to identify potential subsurface obstructions that would interfere with the installation of a sheet piling wall around an area containing low level radioactive material. Wall was installed to control shallow ground water prior to site remediation.

Electromagnetic Survey, Former Steel Mill Site, East Chicago, IN. Designed and interpreted EM-61MKII to screen for potential subsurface utilities and tanks associated with historical operations to focus pre-acquisition sampling activities.

GPR, UST Identification, Numerous Sites. Mr. Randall has utilized GPR at numerous sites to identify the location of subsurface tanks and utilities. The technique has been used to confirm the location of tanks and also to confirm that tanks have, in fact been removed.

GPR, Void Detection/Foundation Study, J&L Specialty Steel, Inc., Midland, PA. Performed GPR to detect potential void beneath boiler room. The GPR investigation was followed by a geotechnical boring program, which Mr. Randall performed under the direction of a geotechnical engineer. Based on the results of the GPR and boring program, grout injections were performed to provide increased foundation stability beneath the boiler room.

GPR, Mine Adit Identification and Delineation, Western VA. Designed program to identify and delineate shallow mine voids using low frequency GPR techniques. The program successfully identified the mines, which were located in a residential area. The mines voids were subsequently confirmed via a boring program and grouted to eliminate subsidence concerns.

Electromagnetic Conductivity, Plume Mapping, Denzer & Schaffer NJ State Superfund Site, Bayville, NJ. Interpreted EM-31 and EM-34 electromagnetic resistivity data utilizing mathematical techniques to identify a high conductivity plume associated with a former septic system. Mathematical interpretation techniques were used to identify and adjust for influences caused by changes in surface materials. The interpreted plume was confirmed utilizing groundwater quality data. Provided cost savings from fewer, better placed wells and also provided increased confidence that the wells properly characterized the plume. Also performed site characterization and co-wrote Phase II RI/FS for this New Jersey Superfund site, including groundwater and soil sampling under EPA-CLP protocol. Performed and interpreted aquifer pumping tests.

Gravity, Buried Valley Delineation, Handy & Harmon, Fairfield, CT. Performed gravity survey to identify the limits of a bedrock valley, the extent of which was masked beneath glacial sediments. The survey succeeded in identifying the extent of the valley and also identified a bedrock high within the center of the valley which resulted in a groundwater divide. The identification of the divide provided key information for characterizing the contaminant fate and transport at the site.

Magnetic Survey, UST Locations, Ocean Spray, NJ. Performed a total field magnetics and gradiometer survey to identify the location of underground storage tanks. Three tanks were identified and removed in accordance NJ regulations.

Handy & Harmon Electronics Materials Site Investigation, Montvale, NJ. Served as site manager for site investigation portion of this ECRA enforcement action. Participated in negotiations with NJDEPE. Authored site sampling work plan and results and participated in development of the site clean-up plan. The investigation included geophysical, hydrogeological, and soil investigations. The geophysical survey successfully identified the location of a septic system thought to be the source of contamination. Provided technical and H&S oversight for the removal of the septic system and associated soils. Performed complete subsurface investigation including well installation, packer testing, and downhole geophysical logging. Results of the investigation proved that most of the contamination was isolated, and resulted from improperly constructed wells installed by a previous consultant. These wells allowed contaminated groundwater from an upper glacial aquifer to migrate to the lower bedrock aquifer. This downgraded the concern of NJDEPE and helped reduce the number and depth of wells required by the state, resulting in lower cost to the client. Other information gathered in this case based on the types of contamination and relative concentrations proved to the previous owner of the property that they were partly to blame for the contamination.

Magnetics, Pinnacle Reef Study, Southwest IN. Performed over 100 miles of magnetic surveys in southwest Indiana to identify pinnacle reefs in southwest Indiana. Processed data to identify potential anomalies associated with reefs. Anomalies associated with the pinnacles reefs were identified at several locations.

Seismic Reflection/Refraction, Research Project, Central MI. Performed over 10 miles of seismic data collection, including: surveying geophone placement, shot-hole drilling, explosives placement and blasting, and recording.

Gravity and Magnetics, Research Project, Gravelly Range, MT. Performed a gravity and magnetics survey to identify the presence of a basaltic dike and banded iron formation in an intermountain basin in southwest Montana. Anomalies believed to be associated with iron ore and the dike were identified.

SCIENTIFIC/TECHNICAL PUBLICATIONS

- N/A

MEMBERSHIPS

- N/A

AWARDS

- N/A

JOSPEH L. MICIKAS, P.E.

Senior Structural Engineer

EXPERIENCE SUMMARY

Mr. Micikas has over 34 years of managerial and technical experience in civil, structural and foundation engineering, and forensic investigations.

His managerial and "hands-on" experience is spread across all phases to include sales and marketing, project development, estimating, scheduling/tracking, engineering/design, contract negotiations, and construction. His experience includes performing and managing preliminary and detailed design, structural design, and cost estimating services for heavy industrial projects.

He is skilled at working with clients, technical and business teams to provide information and solutions to existing and potential issues. He has directed teams, projects, and departments, and is familiar with managerial functions and corporate operations.

Industries served include: oil and gas production and refining, landfill gas to energy, chemical and petrochemical processing plants, steel manufacturing, fossil fuel power generation, pulp and paper processing, building materials manufacturing, activated carbon and field support.

RELEVANT EXPERIENCE

Legal Liability/Expert Witness

Vice President/Owner; Numerous forensic engineering investigations; \$500,000 per year; PA, OH and WV; September 2000 to December 2009. Provided technical services (forensic engineering investigations) to attorneys, insurance companies, independent adjusters, restoration companies, contractors, municipalities, and individuals in the areas of civil engineering design; structural design; structural distress; property loss/damage claims; personal injury accidents; slip/trip and fall accidents; playground installation and safety; and construction claims.

Forensic Structural Engineer; Numerous forensic engineering investigations; PA, OH and WV; June 1998 to September 2000. Provided structural engineering technical services to attorneys, insurance companies, municipalities, and contractors in the areas of

EDUCATION

B.S. Civil Engineering, 1978,
Pennsylvania State University

REGISTRATIONS

Professional Engineer, PA,
1990, PE-040663-E

TRAINING/CERTIFICATIONS

30 Hour OSHA Construction
Safety and Health

10 Hour OSHA Construction
Safety and Health

AK Steel - Butler, PA Site
specific training

Ergon West Virginia, Inc. -
Newell, WV Site specific
training

Momentive Performance
Materials - Sisterville, WV Site
specific training

TWIC (Transportation Workers
Identification Credentials) -
Feb 2009 thru Feb 2014

OFFICE

Monroeville, PA

YEARS OF EXPERIENCE

34

YEARS WITH TETRA TECH

2

civil, construction defects and accidents, civil and structural engineering; structural distress; blasting damage; earthquake damage; property loss/damage claims; personal injury accidents; slip/trip and fall accidents; and construction claims.

Design / Plant Engineering

Manager of Several Civil / Structural Departments; Various Industrial and Landfill Gas to Energy Facilities; United States and Europe; May 2007 to November 2012. Responsibilities included managing the daily activities of the civil /structural department (engineers and designers), coordinate with other discipline departments and oversight on all civil and structural projects. Met with clients to determine project requirements and develop conceptual civil and structural business solutions. Develop engineering and construction estimates, preparation of proposals for engineering services, and preparation of specifications. Review engineering calculations and construction documents prior to issue. Work with contractors during the construction phase of projects. Provide field observation, and engineering representation as necessary.

Manager of Civil and Construction Engineering; Various Plate, Strip and Rolling Mills; United States and Taiwan; 1996 – 1998. Directed the construction engineering activities relating to civil, piping, HVAC and, electrical for Rolling Mill and Process lines produced by the company. Duties included planning, scheduling, development of capital budgets, preparation of estimates and proposals, contracting with outside engineering services, coordination between mechanical suppliers, construction engineering and the client; onsite construction engineering assistance and oversight of work performed by domestic and foreign outside engineering firms.

Senior Structural Engineer; Heavy Industrial Project Services; Various Locations; 1990 - 1996. Mr. Micikas served as a senior structural engineer for the design of structural and foundation requirements on numerous heavy industrial projects. He was responsible for preparation of engineering estimates, proposals, and cost estimates, completed preliminary and detailed design of foundations and structural steel structures, was responsible for field inspections of existing structures and facilities, trouble shooting of construction problems and interfaced with clients. Typical projects included gas cleaning facilities, carbon bake facilities, pulverized coal injection, benzene emissions removal at coke facilities, biological wastewater treatment plants, and steel mills.

Structural Engineer; Heavy Industrial Project Services; Various Locations; 1978 - 1990. Mr. Micikas served as a structural engineer for the design of required structural and foundation requirements of numerous heavy industrial projects. He was responsible for performing preliminary and detailed design of foundations (buildings, equipment, and tanks) and structural steel structures, was responsible for field inspections of existing structures and facilities, and interfaced with clients. Projects included green site and existing site renovations. Typical projects included:

- Structural renovation of a skip hoist for AK Steel;
- Design of crane runway girder and bridge modifications;
- Investigation into increasing crane runway capacity;

- Foundation and structural steel design for a gas cleaning facility, a carbon bake facility, a pulverized coal injection system, glass plants, paper mills, steel mills, aluminum facilities, and chemical plants;
- Thermal stress analysis of furnace and bath refractory block to determine the thermal effect on surrounding structures, developed heat-up and cool-down procedures, and developed damage curve diagrams;
- Designed two (2) slant leg bridges for the Pennsylvania Turnpike Commission;
- Designed temporary stringer support system to assist in the replacement of floor beams during the renovation of the Highland Park bridge, developed a procedure for replacement of the sidewalk support brackets; and designed new stringers and floor beam splices;
- Performed dynamic testing of air compressors, wheel balancing equipment for a tire manufacturer, and miscellaneous manufacturing equipment;
- Performed analytical calculations on a wide range of mechanical and structural systems utilizing ANSYS Finite Element software, conducted large deflection stress analysis of a sludge disposal tramway cable system, numerous static, dynamic and thermal finite elements analyzes of various mechanical equipment and structures, and performed pressure vessel recertification's for NASA;
- Performed field walk-downs of Class I/II small bore piping systems at Beaver Valley nuclear power Plant to determine if routing interferences existed, performed piping analysis of seismic Class I/II small bore piping systems and designed or redesigned pipe supports for the Class I/II piping;
- Performed foundation / pile cap design for liquid oxygen, nitrogen and natural gas low temperature liquid storage facilities. This included tank design piping flexibility analysis and design, pipe support design, tank thermal analysis, tank volume surveys, and structural design of stairways and towers.
- Conducted numerous structural inspections of damaged/undamaged residential, commercial and industrial structures and foundations;
- Directed the structural inspection of the cantilever arm supporting the Mellon Arena roof structure; and oversaw numerous repair projects for the arena, and designed and oversaw the work for repairing the brine water piping system (system which freezes the ice);
- Acted as field engineer on numerous projects;
- Designed two additions to residential structures – a 2600 s.f. detached building connected to the main structure by an enclosed walkway, and an addition cantilevered out 8'-0" from the rear of a residential structure;
- Installed and inspected dozens of commercial playground structures, pavilions and safety surfacing systems;
- Performed numerous personal injury investigations, slip/trip and fall incidents, property loss/damage investigations and construction injury claims and injuries

Landfill Gas Installation

Design of buildings (pre-engineered and masonry) and building foundations, equipment foundations, structural steel design for steel structures required on the projects, pipe supports/racks structural steel design and pipe support/racks foundations, electrical cable tray support, construction specifications, pre-engineered building specifications, architectural details, fencing, and roadway/parking lot layout on several landfill gas to energy projects while at Venture Engineering.

Assisted the mechanical department with layout/GA for such projects.

CHRONOLOGICAL HISTORY

Senior Structural Engineer; Tetra Tech, Inc.; 2012-Present, Monroeville, PA
Manager-Civil /Structural Department; Venture Engineering & Construction; 2010- 2012, Pittsburgh, PA
Manager-Civil/Structural Department; Carnegie Strategic Design Engineers, LLC (CSD); 2008-2010, Carnegie, PA,
Manager-Civil / Structural Department; Loftus Engineers, LLC; 2007-2008, Carnegie, PA
Founder/Vice President; Keystone Engineering Consultants, Inc.; 2000-2009, Venetia, PA
Founder/President; Keystone Recreational Consultants, LLC (Subsidiary of Keystone Engineering Consultants, Inc.); 2002-2005, Venetia, PA,
Forensic Structural Engineer; Robson Lapina, Inc.; 1998-2000, Cranberry Township, PA
Manager of Civil and Construction Engineering; Danieli United, 1996-1998, Pittsburgh, PA
Assistant Manager of Civil, Structural and Architectural Department/Senior Structural Engineer; ICF Kaiser Engineers, Inc.; 1990-1996, Pittsburgh, PA
Structural Engineer; Finite Design, Inc.; 1988-1990, Washington, PA
Structural Engineer; Tensor, Inc.; 1985-1988, Pittsburgh, PA
Stress Analyst/Structural Dynamics Test Engineer; O'Donnell and Associates, Inc.; 1984 -1985, Pittsburgh, PA
Salesman; Morgan's Computer and Education Center; 1984-1984, Pittsburgh, PA
Stress Analyst/Structural Engineer/Field Engineer; Schneider Consulting Engineers; 1983-1984, Bridgeville, PA
Structural Engineer & Field Engineer; 1978-1983, Pittsburgh, PA

SCIENTIFIC/TECHNICAL PUBLICATIONS

- N/A

MEMBERSHIPS

- Chi Epsilon – Civil Engineering Honor Society
- American Society of Civil Engineers – National and Pittsburgh Section
- American Institute of Steel Construction
- Pennsylvania Society of Professional Engineers

AWARDS

- Chi Epsilon Award



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 Department of Administration
 Purchasing Division
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Solicitation

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PAGE
1

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TARA LYLE 304-558-2544

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DIVISION OF CORRECTIONS
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 CHARLESTON, WV
 25311 304-558-8045

DATE PRINTED
03/26/2014

BID OPENING DATE: 05/08/2014 BID OPENING TIME 1:30PM

LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
***** PLEASE NOTE: A MANDATORY PRE-BID MEETING HAS BEEN SCHEDULED FOR 04/30/2014 AT 10:00 AM AT THE LAKIN CORRECTIONAL FACILITY LOCATED AT 11264 OHIO RIVER ROAD WEST COLUMBIA, WV 25287. *****						
0001	1	EA		906-00-00-001		
ARCHITECT/ENGINEERING SERVICES, PROFESSIONAL						
EXPRESSION OF INTEREST (EOI) THE WEST VIRGINIA PURCHASING DIVISION, FOR THE AGENCY, WV DIVISION OF CORRECTIONS, IS SOLICITING EXPRESSIONS OF INTEREST TO PROVIDE ARCHITECTURAL AND ENGINEERING SERVICES FOR THE LAKIN CORRECTIONAL FACILITY LOCATED IN WEST COLUMBIA, WV, PER THE ATTACHED SPECIFICATIONS. ATTACHMENTS INCLUDE: COR61697 EXPRESSION OF INTEREST INSTRUCTIONS TO VENDORS SUBMITTING BIDS GENERAL TERMS AND CONDITIONS CERTIFICATION AND SIGNATURE PAGE PURCHASING AFFIDAVIT						

SIGNATURE		TELEPHONE	DATE
TITLE	FEIN	ADDRESS CHANGES TO BE NOTED ABOVE	

WHEN RESPONDING TO SOLICITATION, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'