JAMES PUCKETT, Manager, Geospatial Analysis and Cartography, Power and Energy

Mr. Puckett is an environmental planner and the Manager of Louis Berger's Geospatial Analysis and Cartography practice. He specializes in electric transmission siting studies, infrastructure planning efforts, GIS applications development, and information management efforts for major infrastructure development projects. Mr. Puckett has experience with Geographic Information Systems (GIS), public involvement, web mapping development, field data collection, IT instruction and training, and SharePoint development. He has experience in all aspects of transmission line route selection and has recent project experience working on several major transmission infrastructure development projects for Dominion Virginia Power, Clean Line Energy, Allegheny Energy, American Electric Power (AEP), FirstEnergy, and PPL Electric Utilities.

FIRM Louis Berger

EDUCATION
- MA, Geography 2008
- MPA 2008
- BA, Geography 2004

CERTIFICATIONS
- Certified GIS Professional

RELEVANT PROJECT EXPERIENCE
ELECTRIC UTILITIES

SMART PATH Transmission project, New York Power Authority (NYPA), New York.
Siting specialist and GIS lead for the permitting and approval of an 85 mile 230 kV transmission line from the St. Lawrence Moses Power Station to Adirondack Substation in New York. Oversaw GIS data management and analysis, participated in a siting review, assisted in preparation of New York Article VII application on behalf of NYPA.

Competitive Bid Transmission Project, Confidential Client.
Siting specialist and GIS lead for the siting of a 42 mile 345 kV transmission line in Indiana and Kentucky. Oversaw GIS data collection, siting efforts, and preparation of a siting report for a competitive bid transmission proposal to Midcontinent Independent System Operator (MISO).

Competitive Bid Transmission Project, Confidential Client.
Siting specialist and GIS lead for the siting of 62 miles of 115 kV, 230 kV, and 345 kV transmission lines in New York. Oversaw GIS data collection, siting efforts, and preparation of a siting report for a competitive bid transmission proposal to New York Independent System Operator (NYISO).

R-Project Habitat Conservation Plan EIS, U.S. Fish and Wildlife Service, Nebraska.
Siting specialist and GIS lead for the siting of a 135 mile 345 kV transmission line in Nebraska as an alternative evaluated by U.S. Fish and Wildlife Service in the R-Project Habitat Conservation Plan EIS. Oversaw GIS data collection, siting efforts, and preparation of a siting report.

Competitive Bid Transmission Project, Confidential Client.
Siting specialist and GIS lead for the siting of 24 miles of 115 kV transmission lines in Kansas. Oversaw GIS data collection and participated in the siting efforts and preparation of a siting report for a competitive bid transmission proposal to Southwest Power Pool (SPP).

Grain Belt Express Clean Line, Clean Line Energy.
GIS lead and siting specialist for the siting of 780 miles of 600 kV HVDC transmission line from western Kansas to Indiana. Participated in supporting agency coordination, public outreach, and siting efforts throughout the project.

Environmental Impact Statement for Acquisition of FPL Lands in the East Everglades Expansion Area of the Everglades National Park, NPS, Florida

Provided siting and analysis in transmission line routing effort on behalf of The National Park Service (NPS) to support an EIS analyzing a proposal to exchange or acquire Florida Power & Light Company (FPL) land within Everglades National Park for development of three transmission lines (one 500 kV and two 230 kV). Supported the transmission line corridor alternate routing study to develop a transmission line corridor that was buildable and minimized adverse impacts to the Everglades National Park, environmental resources, and human resources. Provided GIS analysis, siting support, and expert witness testimony for the preparation of the alternate corridor selection study.

Greater Fort Wayne Area Reliability Project, AEP, Fort Wayne, IN.
Siting team member for two projects providing siting and permitting of 15 miles of double circuit 345/138 kV transmission line and ~15 miles of 765 kV transmission line to support Indiana Michigan Power Company, a subsidiary of AEP.

Wythe Area Improvement Project, AEP, Wytheville, Virginia
Siting and environmental analysis team member for a ~20 mile double circuit 138 kV transmission line from the Jacksons Ferry Substation to the Wythe Substation, in Southern Virginia with one circuit terminating at the Progress Park Substation.

Allegheny Energy/American Electric Power, Potomac Appalachian Transmission Highline (PATH) Siting and Environmental Study, Virginia and West Virginia.
GIS and data management expert for the route selection studies and permitting efforts associated with the West Virginia and Virginia portions (230 miles) of the PATH 765 kV transmission line. Project extended across three states, from just north of Charleston, West Virginia, through Frederick, Virginia and into Kemptown, Maryland and included the siting of a 500/765 kV substation. Before PJM demand projections removed the project from further consideration, all siting studies were completed, direct testimony was submitted, and field surveys for cultural resources, wetlands, and T&E species were completed for more than half of the project.

Confidential Transmission Feasibility Study, AEP, Ohio.
Siting specialist for a feasibility study investigating the potential siting and permitting constraints, opportunities, timelines, and costs for six different potential major transmission connections.

Meadow Brook to Loudoun 500 kV Transmission Line Permitting, Dominion Virginia Power, Virginia.
GIS team member for permitting and regulatory compliance for 62 miles of 500 kV line. This effort included the preparation of two Environmental Assessments under National Environmental Policy Act (NEPA) compliance for the line's crossing of two National Parks; the Appalachian Trail and the Manassas National Battlefield.

Osage - Whiteley 138 kV Transmission Project, Allegheny Energy, Pennsylvania and West Virginia.
GIS and siting expert for the route selection studies and permitting efforts associated with this interstate project involving 15 miles of 138 kV transmission line between Pennsylvania and West Virginia.

Montville Whippany 115/230 kV Project, First Energy, New Jersey.
GIS and siting expert for siting of a 230 kV connection between the Montville and Whippany Substations in central NJ. Efforts included data management, GIS support, and siting for the 10-15 mile 230 kV project.

Red Bank 230 kV Project, First Energy, New Jersey.

GIS and siting expert for siting of a 230 kV connection between the Montville and Whippany Substations in central NJ. Efforts included data management, GIS support, and siting for the ~15 mile 230 kV project.

Oceanview – Larabee 230 kV Project, First Energy, New Jersey.
GIS and siting expert for siting of ~15 miles of 230 kV line. Efforts included data management, GIS support, and siting for the 15 mile 230 kV project.

Hooper Springs Environmental Impact Statement, Bonneville Power Administration, Idaho.
GIS lead for a 32-mile 115 kV transmission line for the Hooper Springs EIS for the Bonneville Power Administration. Responsible for management of mapping efforts, data management, SharePoint development, and avian risk collision model creation.

FEDERAL AGENCIES

Environmental Indefinite Delivery Indefinite Quantity (IDIQ) for Missouri River Ecosystem Restoration Plan and EIS, USACE, Kansas City.
GIS team member supporting the USACE in development of a research compendium to support the development of a Restoration Management Plan for the Missouri River Recovery Program.

Anacostia Subwatershed Provisional Restoration Project Identification and Inventory, USACE, District of Columbia and Maryland.
GIS and technical lead for site identification and mapping in the Anacostia Subwatershed Provisional Restoration Project. Responsible for coordinating the site identification process, designing and maintaining automated data collection application, and creating a database for streamlining data input and report production.

Base Realignment and Closure Environmental Compliance (BRAC), Department of Defense, New York.
GIS team member responsible for site analysis and map creation for the West Point Base Realignment and Closure (BRAC). Involved in integrating design alternatives with existing GIS data layers, preparing GIS data for use in viewshed analysis, and creating maps for use in reports.

Aid the MDEQ for NRDA-OPA of 1990, Mississippi Department of Environmental Quality, Mississippi.
SharePoint developer and trainer responsible for developing and managing a SharePoint site for use by the Technical Working Groups involved in the Natural Resource Damage Assessment (NRDA) for the State of Mississippi occurring as a result of the Deepwater Horizon Gulf Oil Spill. The site was built based on custom requirements to provide archived documentation for the NRDA process for 15 Technical Working Groups. On-site training and instruction materials were provided to the working groups.

Defense Policy Review Initiative Planning Group Support Services, U.S. Marine Corps, Marine Corps Air Station, Iwakuni, Japan.
SharePoint developer and trainer assisting in the development of a custom SharePoint solution to provide management tools for more than 130 concurrent construction projects on the Marine Corps Air Station in Iwakuni, Japan. Provided three weeks of on-site development and training sessions with the Marine Corps and contract staff.

OTHER UTILITIES

Fiber Optic Permitting and Design Project, Confidential Client, Austin, TX
Project Manager and Technical Director on a permitting and design project for underground installation of 1,200 miles of new fiber optic network in a major US city (population ~2 million). This interdisciplinary project requires the preliminary design of the proposed alignment within dense urban conditions, verification of potential conflicts with existing utilities using available GIS and as-built information, and preparation of city permit application documents including detailed plan and profile drawings of proposed underground fiber conduit installations. Responsibilities included initial project setup and methodology design for all portions of the project, technical supervision for GIS, CAD and engineering staff to meet frequently changing project requirements, development of training materials for new staff, overall project organization and coordination with the client.

GIS Spatial Realignment of Water System Features, City of Shelby, NC.
GIS technical lead on a project to digitally map the City of Shelby's existing water system. Responsibilities included coordinating survey-grade GPS data collection of the City's 4,200 water system features; integrating hand-drawn block sheets, field collected data, and legacy GIS datasets into a complete and accurate representation of the municipal water system; performing comprehensive quality control in order to ensure model-quality data; and working on-site for geodatabase installation and setup.

Stormwater GIS Conversion, City of Greensboro, NC.
GIS team member on a data migration project for the City of Greensboro's existing stormwater utility system. Assisted in a review of the City's existing stormwater inventory, converted legacy databases to a format compatible with ArcGIS software, and improved accuracy and functionality of the database by integrating data from hand-drawn block sheets, establishing feature photo hotlinks, and performing quality control to ensure feature connectivity.

GIS Services for Utility Infrastructure, City of Burlington, NC.
GIS team member on a project involving conversion of the City of Burlington's water and sewer data from AutoCAD to GIS. Responsible for integrating comments and feature data into GIS, assisting in establishment of utility geodatabases to meet current and future data management requirements, and creating custom tools to automate data migration.

Water System Data Collection, City of Greensboro, NC.
GIS team member on a project involving paper and CAD to GIS conversion of the City of Greensboro's water utility system. Responsible for reviewing data from 20,000 hand-drawn block sheets, integrating survey-grade GPS field data with legacy utility department datasets, and performing complex quality control that ensured seamless import of more than 60,000 features into hydraulic modeling software.

Sanitary Sewer GPS Data Collection, City of Greensboro, NC.
GIS team member on a project to integrate new sanitary sewer data with existing sewer GIS database for the City of Greensboro. Responsibilities included assisting in GPS field data collection, training surveying staff on custom designed GIS data entry templates using ruggedized-tablet PCs, and reviewing GPS data points after entry into GIS.

Water System Expansion, Onslow County, NC.
Lead GIS team member on a project to design optimal routes to connect a new above ground storage tank to the existing water utility system in the City of Jacksonville. Responsible for mapping route alternatives, providing support for

system design meetings, and integrating new alternate system designs into existing GIS utility datasets.

Reclaimed Water System Expansion, University of North Carolina at Chapel Hill, NC.
Lead GIS team member on a project to design optimal routes of expansion of the University's reclaimed water system. Provided assistance in analyzing reclaimed water demand scenarios, mapped routing alternatives for proposed infrastructure expansion, and provided maps and graphics throughout the project.

Reclaimed Water System Development, Town of Wendell, NC.
GIS team member on a project to create a reclaimed water utility system for the Town of Wendell. Responsibilities included mapping routes of proposed infrastructure, identifying potential reclaimed water customers, and providing maps and graphics for design meetings and presentations.

Utility Staff GIS training, City of Shelby, NC.
GIS instructor providing a two week on-site GIS training session with the City of Shelby Utility Department staff. Provided customized training and support to the four-person GIS staff and field data collection group on several topics, including network data management, hardware and software troubleshooting, editing within an ArcGIS environment, cartography, and GPS data collection.

ADDITIONAL INFORMATION

Education

MA, Geography, Syracuse University, 2008
Master of Public Administration, Syracuse University, 2008
BA, Geography, University of North Carolina at Chapel Hill, 2004

Registrations/Certifications

Certified GIS Professional (GISP)