

Schedule AB-1

****Public****



ANDREW BURKE, AICP

Senior Planner/GIS Specialist, Siting



Years with the firm

17

Years total

17

Professional qualifications

AICP, 2015

Areas of practice

Project Management,
Siting, and GIS

Languages

English

CAREER SUMMARY

Mr. Andrew Burke is a Project Manager/ Geographic Information Systems (GIS) Specialist with seventeen years of experience in geographic information systems technical support, analysis and several years of project management experience. Mr. Burke brings extensive experience with GIS across a number of areas and particular expertise in transmission lines. Since 2005 he has worked on numerous projects with the local, state and federal governments as well as with an array of private utility companies. That experience includes projects in Ohio, Indiana, Florida, North Carolina, and South Carolina. Currently he serves as the Project Manager on several projects where his duties involve running project meetings, managing the project budget, providing monthly cash flow estimates, approving invoices, ensuring that deliverables are provided on schedule, and submitting scope modifications as necessary. Additionally, he serves as the GIS Technical Lead and Siting Lead on several projects that involve the gathering of data and creating and editing potential transmission line routes using aerial photography, analyzing these routes using GIS and field inspections, producing maps for both internal use and externally at public meetings, assisting in writing a report that details the analysis of the alternatives and determines a preferred route, and assisting in the legal and permitting process.

EDUCATION

BS, Double Major, Geography/GIS and Environmental Science & Policy	University of Maryland, College Park, MD	2005
Graduate Certificate, Sustainable Urban Planning,	George Washington University, Washington, DC	2013

PROFESSIONAL MEMBERSHIPS

American Institute of Certified Planners	2015
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PROFESSIONAL EXPERIENCE

- Jay-Allen Transmission Line Projects, Numerous Counties, Indiana (2019-Present). Project Manager. Project to rebuild 100 miles of 138 kV transmission line between a junction point near the Allen Substation in Allen County and the College Corner Substation in Union County, and 11 miles of 69 kV transmission between the Berne Substation and the South Decatur Substation in Adams County. Responsible for running project meetings, managing the project budget, providing monthly cash flow estimates, approving invoices, ensuring that deliverables are provided on schedule, and submitting scope modifications as necessary. Additionally, creating and analyzing potential routes, and assisting in writing a report that details the analysis of the alternatives and proposes preferred routes. Client: American Electric Power
- Niles Area Improvement Projects, Berrien and Cass Counties, Michigan and St. Joseph County, Indiana (2019-Present). Project Manager. Project to build 2 new 138/69 kV switching station, expand 2 138/69 kV substations, build approximately 5 miles of new 138 kV transmission lines, build approximately 3 miles of new 69 kV transmission lines, rebuild approximately 12 miles of 69 kV transmission line in Berrien and Cass Counties, Michigan and St. Joseph County, Indiana. Responsible



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for running project meetings, managing the project budget, providing monthly cash flow estimates, approving invoices, ensuring that deliverables are provided on schedule, and submitting scope modifications as necessary. Additionally, creating and analyzing potential routes and sites, and assisting in writing a report that details the analysis of the alternatives and proposes preferred routes and sites. Client: American Electric Power

- Shannon Area Projects, Franklin County, Ohio (2019-Present). Siting Lead. Project to rebuild approximately 15 miles of 138 kV transmission lines between the Bixby, Shannon, Groves Road, and Astor substations in Franklin County, Ohio. Responsible for running project meetings, creating and analyzing potential routes and sites, and assisting in writing a report that details the analysis of the alternatives and proposes preferred routes. Client: American Electric Power
- McClellanville 115-kV Transmission Line, South Carolina (2012-present), Siting and GIS Support. Responsible for providing siting and GIS support for the development of the draft and supplemental draft EIS, Draft Biological Assessment for FWS and NMFS, and providing assistance with Section 106 Consultation. Our team evaluated four corridor alternatives of a new, approximately 20-mile transmission line, proposed by Central Electric Power Cooperative in coastal South Carolina with challenging historical, natural resource and social impact issues. Issues include crossing the Santee River Delta, historic plantation and rice field properties, conservation lands, state wildlife resource lands, designated wilderness, and the NPS National Heritage Area: Gullah-Geechee Cultural Historical Area. If the preferred corridor goes through the Sumter National Forest the Forest Management Plan will also require updating. Client: USDA, Rural Utility Service and Central Electric Power Cooperative
- Bluffton Area Improvement Projects, Allen and Hancock Counties, Ohio (2018-Present). Siting Lead/Deputy Project Manager. Project to build a new 138/69/34.5 kV substation in Allen County, Ohio, build approximately 6 miles of new 69 kV transmission lines in Allen County and Hancock Counties, rebuild approximately 2 miles of 69 kV transmission lines in Allen County and Hancock Counties, Ohio. Responsible for running project meetings, managing the project budget, providing monthly cash flow estimates, approving invoices, ensuring that deliverables are provided on schedule, and submitting scope modifications as necessary. Additionally, creating and analyzing potential routes and sites, and assisting in writing a report that details the analysis of the alternatives and proposes preferred routes and sites. Client: American Electric Power
- Delaware-Madison 138 kV Transmission Line, Delaware and Madison Counties, Indiana (2017-2018). Project Manager. Project to rebuild a 138 kV transmission line between the Delaware Substation in Delaware County and the Madison Substation in Madison County. Responsible for running project meetings, managing the project budget, providing monthly cash flow estimates, approving invoices, ensuring that deliverables are provided on schedule, and submitting scope modifications as necessary. Additionally, creating and analyzing potential routes, and assisting in writing a report that details the analysis of the alternatives and proposes a preferred route. Client: American Electric Power
- Herlan-Blue Racer 138 kV Transmission Line, Monroe County, Ohio (2016 – 2017). Project Manager. Project to route a 138 kV transmission line between the new Herlan Substation and the existing Blue Racer Substation in Monroe County. Responsible for running project meetings, managing the project budget, providing monthly cash flow estimates, approving invoices, ensuring that deliverables are



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provided on schedule, and submitting scope modifications as necessary. Additionally, creating and analyzing potential routes, and assisting in writing a report that details the analysis of the alternatives and proposes a preferred route, and assisting in the legal process. Client: American Electric Power.

- Flushing-Smyrna 69 kV Transmission Line, Belmont and Harrison Counties, Ohio (2016 – 2017). Project Manager. Project to route a 69 kV transmission line between the new Flushing Substation in Belmont County and the existing Smyrna Substation in Harrison County. Responsible for running project meetings, managing the project budget, providing monthly cash flow estimates, approving invoices, ensuring that deliverables are provided on schedule, and submitting scope modifications as necessary. Additionally, creating and analyzing potential routes, and assisting in writing a report that details the analysis of the alternatives and proposes a preferred route. Client: American Electric Power.
- West Deer-Pine Creek 138 kV Transmission Line, Allegheny County, Pennsylvania (2017 – Present): Project Manager. Project to route a 138 kV transmission line between the new West Deer Substation and the existing Pine Creek Substation in Allegheny County. Responsible for running project meetings, managing the project budget, providing monthly cash flow estimates, approving invoices, ensuring that deliverables are provided on schedule, and submitting scope modifications as necessary. Additionally, creating and analyzing potential routes, and assisting in writing a report that details the analysis of the alternatives and proposes a preferred route, and assisting in the legal process. Client: Duquesne Light Company
- Lauschtown-Wyomissing 69 kV Transmission Line, Lancaster and Berks Counties, Pennsylvania (2016 – 2019). Project Manager. Project to route a 69 kV transmission line between the new Lauschtown Substation located in Brecknock Township, Lancaster County and the existing Wyomissing Substation in Berks County. Responsible for running project meetings, managing the project budget, providing monthly cash flow estimates, approving invoices, ensuring that deliverables are provided on schedule, and submitting scope modifications as necessary. Additionally, creating and analyzing potential routes, and assisting in writing a report that details the analysis of the alternatives and proposes a preferred route. Client: PPL Electric Utilities.
- Lauschtown-Berks 138/69 kV Transmission Line, Lancaster County, Pennsylvania (2014 – 2018). Project Manager. Project to route a 138/69 kV transmission line between the new Lauschtown Substation located in Brecknock Township and the Berks - South Akron #1 69 kV line near the existing Reamstown Substation in East Calico Township, Lancaster County. Responsible for running project meetings, managing the project budget, providing monthly cash flow estimates, approving invoices, ensuring that deliverables are provided on schedule, and submitting scope modifications as necessary. Additionally, creating and analyzing potential routes, and assisting in writing a report that details the analysis of the alternatives and proposes a preferred route. Client: PPL Electric Utilities.
- Williams Grove Substation and 230 kV and 69 kV Transmission Lines, Cumberland County, Pennsylvania (2014 – 2018). Project Manager. Project to site a new 230/69 kV Substation located in Cumberland County and route 6 new 69 kV lines and 2 230 kV lines to the new substation. Responsible for running project meetings, managing the project budget, providing monthly cash flow estimates, approving invoices, ensuring that deliverables are provided on schedule, and submitting scope modifications as necessary. Additionally, creating and analyzing potential



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- routes and substation sites, and assisting in writing reports that details the analysis of the alternatives and propose a preferred route/site. Client: PPL Electric Utilities.
- Western Alberta Transmission Line Alberta Utility Commission Proceedings, Canada (2011-2012). GIS and Transmission Line Routing Expert. Provided direct testimony to the Alberta Utility Commission on the Western Alberta Transmission Line proposed by Altalink. Reviewed the application and provided written and oral expert testimony as based on GIS analysis and field review of alternatives submitted and prior experience. Client: Red Route Coalition.
 - Susquehanna to Roseland 500 kV Transmission Line Routing Study and Environmental Analysis, Pennsylvania and New Jersey (2008 – 2015). GIS technical lead. Project to route a 500 kV transmission line over 100 miles from the Susquehanna nuclear plant in Luzerne County, Pennsylvania, to the Roseland substation in Morris County, New Jersey. Routing team member responsible for gathering data, creating and editing potential transmission line routes using aerial photography, analyzing these routes using GIS and field inspections, producing hundreds of maps for both internal use and externally at public meetings, and assisting in writing a report that details the analysis of the alternatives and determines a preferred route, and assisting in the legal and permitting process. Clients: PPL Electric Utilities and Public Service Electric & Gas.
 - Trail 500 kV Transmission Line Routing Project, Pennsylvania, West Virginia, and Virginia (2006-2009). GIS specialist. Responsible for gathering data layers from a multitude of public and commercial sources, creating and editing potential transmission line routes using aerial photography, analyzing these routes using GIS modeling, producing more than 500 maps for both internal use and externally at public meetings and on the project website, and assisting in writing a report that details the analysis of the alternatives and proposes a preferred route. Client: Allegheny Power.
 - Potomac-Appalachian Transmission Highline (PATH) 765 kV Transmission Line Routing Study and Environmental Analysis, West Virginia (2009-2011). GIS technical lead. Project to route a 765 kV transmission line 230 miles from the Amos power plant in Putnam County to Jefferson County. Routing team member responsible for gathering data, creating and editing potential transmission line routes using aerial photography, analyzing these routes using GIS and field inspections, producing hundreds of maps for both internal use and externally at public meetings, and assisting in writing a report that details the analysis of the alternatives and determines a preferred route, and assisting in the legal and permitting process. Clients: Allegheny Power and American Electric Power.
 - Osage-Whiteley Double Circuit 138 kV Project, Siting and Permitting Support, Pennsylvania/West Virginia (2009-2012). GIS technical lead. Project to route a double circuit 138 kV line between the Osage Substation, in Osage, West Virginia to the Whiteley Substation, near Garards Fort, Pennsylvania. Routing team member responsible for gathering data, creating and editing potential transmission line routes using aerial photography, analyzing these routes using GIS and field inspections, producing maps for both internal use and externally at public meetings, assisting in writing a report that details the analysis of the alternatives and determines a preferred route, and assisting in the legal and permitting process. Client: TrAILCo, Allegheny Energy.
 - North Lancaster – Honey Brook 138/69 kV Transmission Line, Lancaster County, Pennsylvania (2010 – 2014). GIS technical lead. Currently assisting with the North Lancaster to Honey Brook 138/69 kV transmission line routing study. Project



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involves siting a new transmission line between the proposed North Lancaster Substation and the Honey Brook Tap Line in Honey Brook, PA. Responsible for gathering data, creating and editing potential transmission line routes using aerial photography, analyzing these routes using GIS and field inspections, producing maps for both internal use and externally at public meetings, and assisting in writing a report that details the analysis of the alternatives and determines a preferred route. Client: PPL Electric Utilities.

- Honey Brook – Twin Valley 138/69 kV Transmission Line, Berks, Chester and Lancaster Counties, Pennsylvania (2011 – 2014). GIS technical lead. Assisting with the Honey Brook to Twin Valley 138/69 kV transmission line routing study. Project involves siting a new 138/69 kV transmission line between the existing Honey Brook Substation in Chester County, PA, to the existing Twin Valley Substation in Berks County, PA. Responsible for gathering data, creating and editing potential transmission line routes using aerial photography, analyzing these routes using GIS and field inspections, producing maps for both internal use and externally at public meetings, and assisting in writing a report that details the analysis of the alternatives and determines a preferred route. Client: PPL Electric Utilities.
- Brunner Island – West Shore 230 kV Transmission Line, York and Lancaster Counties, Pennsylvania (2010 – 2012). Project scientist. Responsible for assisting with the PPL Electric project to upgrade a single-circuit 230 kV line to a double-circuit 230 kV line between the Brunner Island Substation, near Bainbridge, PA to the West Shore Substation, near Mechanicsburg, PA. Responsible for gathering data, creating and editing potential transmission line routes using aerial photography, analyzing these routes using GIS and field inspections, producing maps for both internal use and externally at public meetings, and assisting in writing a report that details the analysis of the alternatives and determines a preferred route. Client: PPL Electric Utilities.
- Hemlock Tap 138 kV Transmission Line, Monroe County, Pennsylvania (2010 – 2013). GIS technical lead. Responsible for assisting with the PPL Electric project to upgrade a single-circuit 69 kV line to a double-circuit 138 kV line between the Blooming Grove Substation and the Hemlock Farms Substation. Tasks include land use analysis, T&E species review, preparation of a State Forest Environmental Review, preparation of the PUC LON, and environmental permitting. Client: PPL Electric Utilities.
- Martins Creek 230 kV Transmission Line, Northampton County, Pennsylvania (2010 – 2011). GIS technical lead. Responsible for assisting with the PPL Electric project to rebuild a portion of 138 kV line between the Siegfried Substation and the last structure in Northampton County before the line turns east toward the Martins Creek Substation. Tasks include land use analysis, T&E species review, wetland delineation assistance and report preparation, and preparation of the PUC LON. Client: PPL Electric Utilities.
- Otter Creek to Conastone 230 kV Transmission Line, York County, Pennsylvania (2010 – 2011). GIS technical lead. Responsible for assisting with the PPL Electric Utilities project to upgrade a single-circuit 230 kV line to a double-circuit 230 kV line between the Otter Creek Substation, in Brogue, PA to the Maryland border near New Park, PA. Tasks included field reconnaissance, land use analysis, T&E species review, preparation of the PUC LON, and wetland delineation report preparation. Client: PPL Electric Utilities.
- Manor to Graceton 230 kV Transmission Line, York and Lancaster Counties, Pennsylvania (2010). GIS technical lead. Responsible for assisting with the PPL



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Electric project to upgrade a single-circuit 230 kV line to a double-circuit 230 kV line between the Manor Substation, in Conestoga, PA to the Maryland border near Susquehanna Trails, PA. Tasks included field reconnaissance, land use analysis, T&E species review, wetland delineation assistance, preparation of the PUC LON, and wetland delineation report preparation. Client: PPL Electric Utilities.

- Letter of Notification Projects, Various Counties, Pennsylvania (2012 – 2014). GIS technical lead for several projects that required submission of a PUC LON. Project scope also may include T&E species consultation, wetland delineation, and PHMC consultation.
 - West Hempfield – Prince 138 kV Transmission Line Rebuild Project, Lancaster County, PA
 - Breinigsville Substation Interconnection Project, Northampton County, PA
 - Cumberland – West Shore 138/69 kV Transmission Line Rebuild Project, York and Cumberland Counties, PA
 - Mack – Macungie 138/69 kV Transmission Line Rebuild Project, Lehigh County, PA
 - Susquehanna – Harwood 230 kV Transmission Line, Luzerne County, PA

Client: PPL Electric Utilities.

- Grain Belt Express High-Voltage Direct Current Transmission Line Siting and Compliance Project, Kansas, Missouri, and Illinois (2010 – 2015). GIS technical support on a project to route an HVDC transmission line over 780 miles from the Spearville Substation in Ford County, Kansas to the Sullivan, Substation in Sullivan County, Indiana. Responsible for gathering data, creating and editing potential transmission line routes using aerial photography, analyzing these routes using GIS and field inspections, producing maps for both internal use and externally at public meetings, and assisting in writing a report that details the analysis of the alternatives and determines a preferred route. Client: Clean Line Energy Partners.
- Conceptual Feasibility Studies, Liberty Kanawha River – Bath County and Liberty East Transmission Projects, West Virginia, Virginia and Pennsylvania (2011). GIS technical lead for a conceptual study of these two proposed projects. The Kanawha River – Bath County study evaluated two 345 kV transmission system network enhancement scenarios proposed by Northeast Transmission Development LLC (NTD) in West Virginia and Virginia, and the Liberty East study evaluated three 230 kV transmission system network enhancements proposed by NTD in Adams and York counties, Pennsylvania. The studies included an analysis of siting, real estate acquisition, engineering, construction, and environmental impacts associated with the proposed project. The team developed conceptual transmission line routes; determined potential locations and configurations for new and expanded substations; provided environmental planning and analysis for potential impacts associated with the project facilities; identified likely permits and approvals needed; analyzed and estimated real estate costs; estimated lengths and costs associated with access roads; provided conceptual civil and structural engineering for the transmission lines and substations, including development of plans and profiles and substation one-line diagrams; and analyzed the constructability and costs for both projects, including potential risks to construction. Client: PJM Interconnection, L.L.C.



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- Homer City – Handsome Lake 345 kV Transmission Loop and 138 kV Transmission Line Relocation, Armstrong County, Pennsylvania (2013 – 2014). GIS technical lead. Responsible for assisting with the FirstEnergy project to site and construct a new 345 kV loop into the Armstrong Substation and relocate an existing 138 kV line. Responsible for gathering data, creating and editing potential transmission line routes using aerial photography, analyzing these routes using GIS and field inspections, producing maps for both internal use and externally at public meetings, and assisting in writing a report that details the analysis of the alternatives and determines a preferred route. Client: FirstEnergy.
- Bruce Mansfield – Glenwillow 345 kV Transmission Line, Beaver County, Pennsylvania and Columbiana, Mahoning, Trumbull, Portage, Summit and Cuyahoga Counties, Ohio (2012-2015). GIS technical lead. Project to route a 345 kV transmission line from the Bruce Mansfield Substation in Shippingsport, Pennsylvania to a new sub substation in Glennwillow, Ohio. Routing team member responsible for gathering data, creating and editing potential transmission line routes using aerial photography, analyzing these routes using GIS and field inspections, producing maps for both internal use and externally at public meetings, assisting in writing a report that details the analysis of the alternatives and determines a preferred route, and assisting in the legal and permitting process. Client: FirstEnergy