

Project Manager

*Project Management,
Integrated Resource
Planning,
Permitting and
Licensing,
Feasibility Studies and
Project Development*

Education

B.S., Electrical Engineering,
University of Missouri –
Columbia, 1974

Professional Registration

Professional Engineer: Missouri,
1982

Total Years Experience

1976 – present

Joined Black & Veatch

1976

Professional Associations

MoKan American Nuclear
Society, Past President
Institute of Electrical and
Electronics Engineers, Senior
Member, Treasurer University of
Missouri Engineering Alumni
Board of Directors

Mr. Rollins provides project management expertise and is responsible for the management of system planning and feasibility studies encompassing the areas of integrated resource planning, load forecasting, generation planning, cogeneration, site selection and other special studies.

Mr. Rollins specializes in generation planning and project development. He is responsible for numerous power supply studies incorporating integrated planning techniques. Mr. Rollins was responsible for the development of Black & Veatch's POWRPRO chronological production costing program and POWROPT optimal generation expansion program. He specializes in power market analysis and project feasibility studies. Mr. Rollins extends his expertise in generation system planning to the area of the need for power certification of power plants.

Mr. Rollins has broad expertise in planning and project development that enables him to assist clients in the development of expansion plans and specific projects in a realistic manner that incorporates the required balance between engineering and cost considerations, as well as sociopolitical and licensing considerations. With this experience, Mr. Rollins has successfully helped utility and developer clients add value to their systems and projects throughout his career.

Mr. Rollins has presented expert testimony on several occasions before the Alaska, Florida, Indiana and Missouri Public Service Commissions. He has published numerous papers on strategic planning and cogeneration. In addition, he is a Past Chairman of the Mo-Kan section of the American Nuclear Society and a Senior Member of IEEE.

Representative Project Experience

Conservation Goals Dockets, JEA, OUC, and FPUC, Florida

In 2009, Mr. Rollins served as Project Manager for JEA, Orlando Utilities Commission (OUC), and Florida Public Utilities Company (FPUC) for the Conservation Goals Dockets before the Florida Public Service Commission (FPSC). Every five years the FPUC sets conservation goals for utilities subject to the Florida Energy Efficiency and Conservation Act. The FPSC sets goals for residential and commercial sectors for the reduction in summer and winter peak demand and energy. Mr. Rollins was responsible for preparing testimony for the Conservation Goals Docket for each of the three utilities. In addition, he was responsible for providing responses to interrogatories and production of document requests propounded by the FPSC and numerous intervenors. The utilities were responsible for providing technical, economic, and achievable conservation potential as part of their testimony. Mr. Rollins served as an expert witness during the four day evidentiary hearing.

Railbelt Integrated Resource Plan, Alaska Energy Authority, Alaska

In 2009, Mr. Rollins served as Project Manager for the Railbelt Integrated Resource Plan (RIRP) conducted for the Alaska Energy Authority (AEA).

The RIRP was developed for the six interconnected utilities of the Alaska Railbelt consisting of Anchorage Municipal Power & Light (ML&P), Chugach Electric Association (Cbugach), City of Seward Electric System (SES), Golden Valley Electric Association (GVEA), Homer Electric Association (HEA), and Matanuska Electric Association (MEA). The RIRP was conducted with all six interconnected utilities considered as one integrated utility. The RIRP evaluated numerous conventional alternatives including simple cycle combustion turbine plants, combined cycle units, and pulverized coal units. Renewable energy alternatives considered included large and small hydroelectric, wind, geothermal, municipal solid waste, and tidal. Combined heat and power and small modular nuclear units were also considered. The supply side alternatives were fully integrated with an evaluation of cost effective demand-side management/energy efficiency programs. Extensive transmission system analysis was also conducted.

Need for Power Certification, JEA, Florida

In 2008, Mr. Rollins served as Project Manager for the preparation of a Need for Power Application for JEA's Greenland Energy Center Combined Cycle Conversion. The combined cycle conversion was to convert to simple cycle 7 FA combustion turbines to combined cycle. The application was submitted to the Florida Public Service Commission under the Florida Electrical Power Plant Siting Act. The Need for Power Application evaluated the Greenland Energy Center combined cycle conversion against other self-build alternatives including renewable alternatives and demand-side management alternatives. The Florida Public Service Commission unanimously approved the need for the Greenland Combined Cycle conversion in February 2008.

Need for Power Certification, Orlando Utilities Commission, Florida

In 2006, Mr. Rollins served as Project Manager for the preparation of a Need for Power Application for the Orlando Utilities Commission's Stanton Energy Center Unit B. Stanton B was a proposed IGCC unit to be constructed at Stanton Energy Center in Orlando, Fla. The application was submitted to the Florida Public Service Commission under the Florida Electrical Power Plant Siting Act. The Need for Power Application evaluated Stanton B against other self-build alternatives and demand-side management alternatives. The Florida Public Service Commission unanimously approved the need for Stanton B.

Need for Power Certification, Florida Municipal Power Agency, Florida

In 2005, Mr. Rollins served as Project Manager for the preparation of a Need for Power Application for Florida Municipal Power Agency's (FMPA's) Treasure Coast Energy Center (TCEC) Unit 1. TCEC Unit 1 was a proposed 1x1 F-class combined-cycle unit to be constructed on a greenfield site in Ft. Pierce, Fla. The application was submitted to the Florida Public Service Commission under the Florida Electrical Power Plant Siting Act. The Need for Power Application evaluated TCEC Unit 1 against other self-build alternatives, purchase power from a request for proposals (RFP) process and demand-side management alternatives. The Florida Public Service Commission unanimously approved the need for TCEC Unit 1.

Integrated Resource Plan, City of Tallahassee, Florida

As Project Manager from 2005 to 2006, Mr. Rollins provided an integrated resource plan (IRP) for the City of Tallahassee. The IRP involves extensive evaluation of gas- and coal-fueled alternatives. More than 140 demand-side management (DSM) measures were evaluated. The IRP includes extensive evaluation of the impacts from the Clean Air Interstate Rule (CAIR) and Clean Air Mercury Rule (CAMR). Biomass generation was evaluated as part of the IRP. Extensive probabilistic risk analysis also was conducted.

Integrated Resource Plan, JEA, Florida

Mr. Rollins managed an integrated resource plan (IRP) in conjunction with JEA. He served as the Project Manager. The IRP involved extensive evaluation of gas- and coal-fueled alternatives, including the development of site-specific estimates. Requirements for the Clean Air Interstate Rule (CAIR) and Clean Air Mercury Rule (CAMR) were included in determining air quality-control additions necessary for existing units. Demand-side management (DSM) evaluation made use of previous work conducted by Black & Veatch as part of JEA's Conservation Goal Docket before the Florida Public Service Commission.

Integrated Resource Plan Review, City of Lakeland, Florida

As Project Manager, Mr. Rollins managed the review of the development of the City of Lakeland's integrated resource plan (IRP). The review encompasses all aspects of the IRP, including load forecast, fuel forecast, development of supply-side alternatives, life extension and expansion planning. In addition, Black & Veatch evaluated demand-side management alternatives for the City of Lakeland.

Expert Testimony, Indiana Municipal Power Agency

Serving as Project Manager, Mr. Rollins presented expert testimony before the Indiana Utility Regulatory Commission for the issuance of a Certificate of Public Convenience and Necessity. The testimony covered the technical and economic feasibility for three coal-generating unit projects in which the Indiana Municipal Power Agency planned to participate.

St. Johns River Power Park Annual Report, JEA, Florida

Mr. Rollins, Project Manager, oversaw the preparation of the annual report on the operation and maintenance of St. Johns River Power Park, which consisted of two 675 MW pulverized coal units burning a mix of coal and petroleum coke. The units were jointly owned by Florida Power & Light Company and JEA. The annual operation and maintenance report was required to be submitted to the bond trustee under JEA's bond covenants.

Ten-Year Site Plan, Orlando Utilities Commission, Florida

Mr. Rollins managed the preparation of the Ten-Year Site Plan for the Orlando Utilities Commission as required by the Florida Public Service Commission. Mr. Rollins served in the capacity of Project Manager, and the Ten-Year Site Plan was an integrated resource expansion plan for the utility,

including load forecast, fuel price forecast, demand-side management and generation expansion.

Stock Island Combustion Turbine Unit 4 Development and Licensing, Florida Municipal Power Agency

Serving as Project Manager in 2004, Mr. Rollins managed the development of the project description, conceptual design, development of lease and operating agreements, and permitting and licensing of a LM6000 simple-cycle combustion turbine located at Key West, Fla. In addition, studies of the method of project execution, either EPC or traditional design and construction management, were developed along with a detailed schedule and cost estimate.

Combined Cycle Site Selection Study, Florida Municipal Power Agency

In 2004, Mr. Rollins managed the site selection study for a 1x1 F-class combined-cycle plant for Florida Municipal Power Agency (FMPA). The site selection study initially evaluated four FMPA-member generation sites. From those four sites, two were selected for detailed evaluation. The site selection study evaluated fatal flaws and permitting requirements, natural gas supply, water supply, wastewater disposal and transmission interconnection requirements. The study also evaluated construction and operating costs differences between the two sites, the ability to deliver power to the East system and weighed the associated economic impacts of wheeling costs to get power to the East system. The study recommended selection of a site in St. Lucie County. The unit was constructed on the site and entered commercial operation in 2008.

Independent Assessment, Edwards & Angell, Florida

As Project Manager in 2003, Mr. Rollins managed an independent assessment of the current state and cost for the completion of a combined-cycle repowering project in Lake Worth, Fla., for Edwards & Angell, the City of Lake Worth's bond attorney. The study involved developing an estimate to complete the project as a simple-cycle combustion turbine and providing consultation on the development of a new natural gas transportation agreement and a memorandum of understanding between the existing owner, AES, and the new purchaser of the project, Florida Municipal Power Agency. The assignment also involved a review and advisement on numerous other project agreements.

Cane Island 4 Feasibility Study, Florida Municipal Power Agency

Mr. Rollins managed a feasibility study for the installation of a 1 x 1 F-class combined-cycle plant at the existing Cane Island Power Park. Serving as the Project Manager, Mr. Rollins saw that the study addressed site arrangement, the availability of cooling water and the disposal of wastewater.