



JACOB M. THOMAS, P.E.
Senior Project Manager

EDUCATION

Master of Business Administration, Finance, Auburn University, 2006

Bachelor of Science in Industrial Engineering, Cooperative Program, With Highest Honors, Georgia Institute of Technology, 2000

PROFESSIONAL REGISTRATION

Registered Professional Engineer in the State of Georgia

PROFESSIONAL MEMBERSHIPS

National Society of Professional Engineers (NSPE)
American Statistical Association (ASA)
Institute of Industrial Engineers (IIE)

PROFESSIONAL EXPERIENCE

GDS Associates, Inc., June 1996 to Present

Employed as cooperative student and began full time employment in 2000. During his career at GDS, Mr. Thomas has developed expertise and experience in many areas of utility practice including load & financial forecasting, residential consumer surveys, load research, cost of service studies, retail and wholesale rate design, economic impact analysis, benefit-cost analyses, load management evaluation, statistical impact analysis, and market research.

PROJECT EXPERIENCE

General Experience Includes:

- Managed a lighting metering study for residential customers of six investor-owned utilities in Pennsylvania. Project included sample design, recruitment, management of light logger installation and recovery, and statistical modeling to estimate hours of use and coincidence factors for residential lighting.
- Load research studies for a cooperative in Texas. Work included stratified random sample design, data quality control and assurance, development of data expansion to estimate class demands at time of coincident peak demands. Study has been performed twice in the past five years.
- Designed cost of service models and performed retail rate analysis for municipalities and cooperatives in Alabama, Alaska, Arkansas, Florida, Georgia, Indiana, Massachusetts, Ohio, Pennsylvania, South Carolina, Texas, and Virginia. Specific work has included development of cost allocation factors in various areas of operation, calculation of impacts of rate changes to customers, determination of the

company's financial competitive position, classification of plant investment and operating expenses, development of pro forma financial statements, and alternative rate design calculations.

- Designed a cost of service model template for use by Hoosier Energy. Developed a functional spreadsheet-based model and performed a training seminar with Hoosier staff.
- Prepared financial forecasts for electric cooperatives in South Carolina, Virginia, Tennessee and Georgia, and for municipals in Arkansas, Pennsylvania, and Ohio. Work included regression analysis, review of current long-term debt situation, customer and demand forecasts, plant forecasts, and sensitivity analysis.
- Completed an economic impact analysis of instituting a Renewable Portfolio Standard in the state of North Carolina. Direct, indirect, and induced job impacts were measured for construction, operations and maintenance, and pertinent fuel supplies for various conventional and renewable resources, as well as effects of electricity price increases on residential and commercial consumers.
- Economic impact analysis of continued operation of nuclear power plant in Vermont. Analysis included impacts to Vermont economy in general, Vermont government, and in-state utility ratepayers. Prepared testimony as an expert witness on economic analysis on behalf of the Department of Public Service.
- Expert witness in a natural gas retail rate study in Michigan. Subject of testimony was weather normalization methodologies in forecasting.
- Expert witness in North Dakota, testifying in the areas of load research, cost of service, and retail rate design.
- Developed state-wide energy supply and consumption projections by major customer classification and type of fuel for Vermont Department of Public Service and Virginia Department of Mines, Minerals, and Energy. Utilized Energy Information Administration data and econometric and trending techniques to complete projections.
- Assisted in development of wholesale rates for G&Ts in Indiana, Minnesota and Wisconsin. Work involved projections of cost pools and billing units, development of pro forma rates and impacts on member systems, evaluation of rate alternatives and riders, and considering the implications of an aggressive load management program.
- Instructor at Institute of Public Utilities Forecasting Workshop held in 2012. Taught on the subject of Statistically Adjusted End-Use models.

REGULATORY EXPERIENCE

- Delaware Public Service Commission (Co-Author of Joint Report – Evaluation of Delmarva Power & Light Integrated Resource Plan)
- Kentucky Public Service Commission (Panel Representative in Big Rivers Electric Corporation Integrated Resource Plan)
- Michigan Public Service Commission (Expert Witness – Weather Normalization)
- North Carolina Utilities Commission (Expert Witness – Cost of Service Modeling)
- North Dakota Public Service Commission (Expert Witness – Load Research, Cost of Service, Retail Rate Design)
- Utah Public Service Commission (Co-Author of Joint Report – Evaluation of PacifiCorp Load Forecast)
- Vermont Public Service Board (Expert Witness – Economic Impact Analysis of Vermont Yankee)