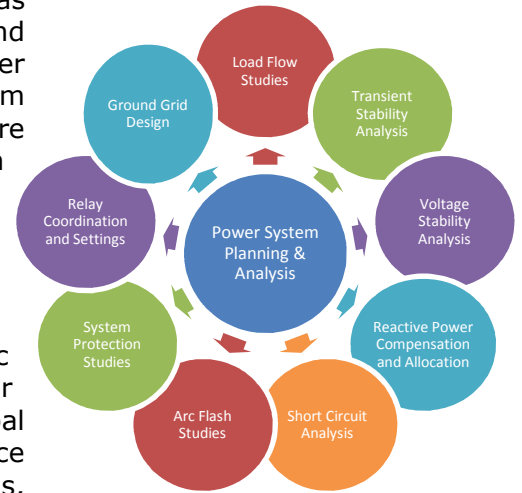


AURIGA CORPORATION POWER SYSTEM PLANNING & ANALYSIS SERVICES



Since its establishment in 1990, Auriga Corporation has developed an industry-wide reputation for high quality and value-added services. Auriga is recognized as a premier provider of professional consulting services in Power System Planning and Analysis. Auriga's System Planning Studies are based on industry standards and practices that have been successfully applied in many past projects in the US and other countries. Auriga uses the state-of-the-art software tools such as GE-PSLF*, PSS/E*, ETAP*, PowerWorld Simulator*, Aspen OneLiner*.

Auriga Corporation provides a wide variety of strategic planning, design, and engineering services to electric power utilities in the United States and internationally. Our principal consultants have on average more than 25 years experience with electrical power system planning, design, analysis, feasibility and operations studies.



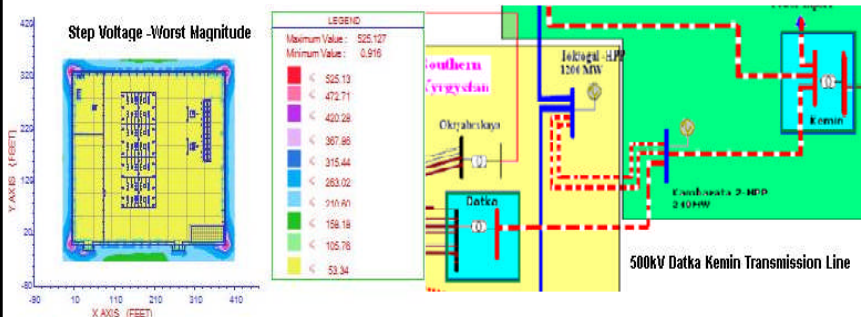
REPRESENTATIVE POWER SYSTEM PLANNING AND ANALYSIS SERVICES PROJECTS:

- National Electric Grid of Kyrgyzstan (NEGK) – Feasibility Study: 500 kV Datka Kemin Transmission Line
- California Independent System Operator (CAISO) - Transmission Grid Operations and Congestion Management
- Pacific Gas and Electric Company – Midway Substation Automation Project
- Southern California Edison – Design and Engineering Services: Distribution System Management
- Sacramento Municipal Utility District – Design and Engineering Services for 230 kV Substations
- City of Lodi – 60 kV Transmission Planning Study
- City of Lodi – New 60/12 kV Westside Substation Design
- City of Roseville – West Plan 60 kV Substation Design
- City of Glendale – Power System Stabilizer Study
- Kentucky Public Service Commission - AEP Transmission Interconnection Study
- Plumas Sierra Rural Electric Cooperation (PSREC) - Power System Interconnection Study

NEGK, Kyrgyzstan – 500kV Datka Kemin Transmission Line Project

Scope of Services:

- Identify Alternative Right-Of-Ways
- Select Optimum Right-Of-Way
- Establish Required Line Capacity
- Electrical Study: Load flow, voltage variation, short circuits, equipment loadings, active and reactive power margins, and energy loss
- 500kV Transmission Line Design
- Prepare Bill Of Materials
- Equipment Specifications
- Environmental and Development Impact Analysis
- Estimate Project Capital And Operating Costs
- Evaluate ownership structures
- Conduct Financial and Sensitivity Analysis
- Summary and Recommendations



SCOPE OF SERVICES:

Power System analysis is performed across a broad range of operating conditions using the desired reliability criteria for measuring system performance. Based upon the findings of these system simulation studies, and other factors such as economic, environmental, regulatory, etc., the most viable system reinforcement solution is recommended. Following is the list of the studies Auriga routinely performs to achieve the goals and objectives:

Software Tools

- GE PSLF
- PSS/E
- ETAP
- Power World
- ASPEN

- Load flow analysis
- Transient stability analysis
- Voltage stability analysis
- Reactive power compensation and allocation
- Short-circuit analysis
- Arc Flash Studies
- System protection studies
- Relay coordination and settings
- Ground Grid Design

TYPICAL APPROACH AND WORK PLAN:

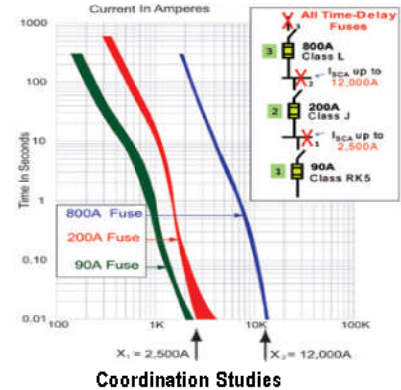
Auriga Corporation works closely with the client’s staff to develop a detailed work plan and deliverables at the beginning of the project. Typical steps for system studies include:

- Gather and analyze data
- Prepare base cases
- Define reliability criteria
- Perform system studies
- Conduct sensitivity analysis
- Evaluate alternate scenarios, if required
- Identify potential problems
- Determine practical and cost-effective solutions
- Summarize findings and recommendations

For additional information and inquiries, contact:

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City of Lodi – 60kV Transmission Planning Study

Scope of Services:

- Transmission Line Alternatives
- Selection of Preferred Alternative
- Load Flow Analysis
- Future Development
- Environmental Impacts Analysis
- Development Impact Analysis
- Design Specification for the Transmission Line
- Cost/Benefit Analysis
- Transmission Line Alternatives study report.

Plumas Sierra Rural Electric Cooperation - Power System Interconnection Study

Scope of Services:

- Develop Base Cases
- Develop Dynamic Data for the Generation Projects
- Establish Reliability Criteria
- Select Contingencies
- Perform Load Flow Analysis
- Perform Stability Analysis
- Summary and Recommendations