



RRC

POWER

DELIVERY

RRC employs highly-skilled and experienced engineering and design professionals with **over 200 years of combined Power Delivery experience** who assist our clients with achieving their power delivery goals and business objectives. RRC provides engineering, analysis, and observation services for transmission and substation facilities throughout the United States. We have the experience and expertise to plan and design all aspects of power delivery projects to create system reliability and enhance overall performance. Our company culture insists on a proactive and responsive approach to match challenging projects and timelines for the utility companies and contractors we service. We recognize the overall power industry's constant evolution and strive to be an integral part of the solution to replace aging infrastructure while integrating smart grid technologies. **Contact** our Electrical Engineering Group Manager, Samuel Moser, for more information at 503.628.9081 or SamuelMoser@RRCcompanies.com.

Services provided for Power Delivery projects include:

- Electrical Substation Design (4 kV-500 kV)
 - Calculation & Drawing Packages
 - Distribution, Transmission & Industrial Substations
 - Equipment Specifications
 - Power Transformers
 - Switchgear
 - Control Houses
 - Protection & Control Design
 - Studies
 - Coordination Studies
 - Grounding
 - Lightning Protection
 - Reactive Power Analysis
 - Load Flow
 - Short Circuit
 - Arc Flash Hazard Analysis
 - Substation SCADA Engineering
 - Substation Automation
- Distribution, Subtransmission, and Transmission Line Design (15 kV to 345 kV)
 - Geotechnical Investigation, Testing & Engineering
 - Structural & Foundation Design Services & Optimization
 - Civil Engineering, Stormwater Pollution Prevention Plans (SWPPP), Grading & Drainage Studies
 - Underground Power Cable Engineering
 - Cable System Reliability Consulting
 - Power Cable Testing & Diagnostics
 - Consulting
 - Aged Cable Analysis
 - Power Cable Ampacity Calculations
 - Temperature Monitoring Systems
 - Electromagnetic Field (EMF) Analysis
 - System Grounding/Bonding
 - Cable & Accessories Specifications
 - Installation Design
 - Construction Material Testing & Onsite Quality Assurance/Quality Control
 - Site Surveying including Boundary & Right-of-Way Surveys

RRC services and group managers include:

Civil Engineering, Lee Adams
512.962.9269 LeeAdams@RRCcompanies.com

Construction Materials Testing, Arron Swindler
512.964.8520 ArronSwindler@RRCcompanies.com

Electrical Engineering, Samuel Moser
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Geotechnical Engineering, Rohit Pant
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Structural Engineering, Ben Krause
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