

Services

- Technical Assessment
- System Protection Design
- Relay Settings and Application
- System Protection Integration
- Commissioning Support
- Training
- Relay Monitoring

Founded in January 2000, RAI incorporates proven protection practices with innovative solutions for engineers, operators, managers, linemen, technicians, and other customers. RAI applications and analyses can improve protection, reduce expenses, and increase protection availability by successfully applying the protective relaying technology of microprocessor-based relays.

RAI employs a team of protection and integration engineers with experience in all aspects of power system engineering and over 200 years of combined power system experience.

Electric power system protection services, systems, and tools

Technical Assessment Service

An RAI technical assessment reviews all aspects of your protection system including the design, integration, analysis and maintenance procedures, and documentation.

Identify your existing capabilities to

- **Improve** your protection system
- **Reduce** operating costs
- **Streamline** installations

While considering the use of your **technology, standards, and expertise.**

System Protection Design

Improve your system protection, reduce the expenses of your system protection, and increase the availability of your system protection,

System Protection Design Options

- Review of existing protection standards to evaluate the use of new technology
- Modification of existing standards to incorporate new technology
- Review of new standards for proper relay application
- Custom designs for new applications

Relay Settings and Applications

Implementations for typical protection applications and new innovative applications.

Available Deliverables

- Coordination Study
- Threshold Settings
- Logic Settings
- Setting Management
- Documentation

Applications

- Distribution and Transmission Line Protection
- Generator and Motor Protection
- Transformer Protection
- Breaker, Capacitor, and Reactor Protection
- Remedial Action Schemes
- Automatic Restoration Schemes



Relay Application Innovation, Inc.

Customers

RAI has assisted large and small utilities, industrial plants, construction companies, system integrators, contractors, consultants, and electric transmission companies.

The project relationship may range from an on-call consultant to a complete protection and integration project manager. Past projects have included all phases, from specification through commissioning and training.

"RAI developed a method to sort over 14,000 relay event files and extract fault and breaker data. This can be done automatically and will help us improve our transmission relay protection quality."

*-Scott Hayes
Supervising Engineer
System Protection at PG&E*

Contact Us

If you would like to discuss any of our services or applications, or if you have an application or service that you would like us to consider, please contact

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RAI works with system integrators and end users to provide integrated systems, including the data acquisition and control up to the HMI. RAI specializes in the design and programming of the portion of the systems that use SEL relays, Logics Processors, and Communication Processors.

Commissioning Support

Up-to-date on the latest technology RAI offers:

- On-site or remote support during Installation,
- Commissioning
- Maintenance
- Help in meeting clearance deadlines and other project timelines

This support can keep project expenses to a minimum.

Training

A wide range of training topics helps your company increase efficiency and avoid costly mistakes. RAI training is focused for specific audiences such as **technicians, engineers, operators, and managers**; and it is distributed via the most convenient method for you and your company.

Topics Available

- Protection
- Product
- Procedural

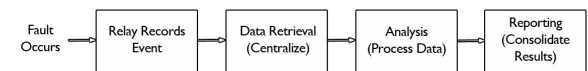
Delivery Formats

- Web-based
- CD-based
- On-Site Instructor



Relay Monitoring

Protective relays provide detailed reports about each system event. Retrieve, organize, analyze, and summarize the reports to evaluate your system operations.



Relay Monitoring Systems

- Event Retrieval System Design
- System Data Flow Settings
- Installation Support
- RAI Remote Monitoring
- Event Analysis Reports



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