

Judith M. Russell

A graduate of Worcester Polytechnic Institute (BSEE, 1983), Jude Russell has become a nationally recognized expert in the areas of power quality analysis and power conditioning design / application.

Beginning her career in the design and development of Power Supplies and Power Conditioning devices, Jude has come to specialize in the development, implementation, and support of power quality programs for field service organizations.

The *PowerLines* skill set combines technical expertise, field experience, and people skills. We're particularly adept at identifying and resolving electrical problems quickly and cost-effectively – both remotely as well as on-site.

Not simply a technical guru, Jude backs up her power quality expertise with detailed reports, engineering tools, and follow-up documentation. Her media and production experience help her to effectively communicate solutions, and to teach power quality concepts with each project.

Jude has resolved hundreds of field service power quality problems in medical and industrial facilities. If you need an immediate solution to a specific electrical problem, or a want to implement a power quality program within your organization, Jude Russell, and *PowerLines*, can help!



Power Quality Electrical Safety Training and Documentation

Engineering, Computer, and
Media Solutions Since 1995

*Specializing In Support For OEM
Power Quality Programs*

Judith M. Russell

Consulting Electrical Engineer

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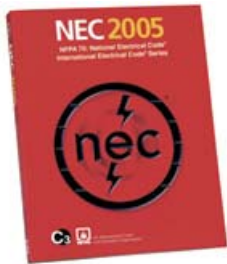
www.powerlines.com

Power Quality

Facility Electrical Systems



- Demand Analysis
- Harmonics Analysis
- Power Quality Analysis



- Help Desk Support
- Code Compliance
- Remote or Onsite

Product Design & Development



- Review Design Susceptibility To Voltage Disturbances
- Power Conditioning Products: Specification and Evaluation
- Power Supply / Power Distribution Design
- Mains Adaptation for World Supplies

PowerLines is an engineering consulting organization dedicated to the safe and effective use of electricity in medical, commercial, and industrial environments.

In a world of increasingly computerized equipment, it is difficult to ensure the compatibility of electronic devices with the facility electrical system. Serious safety and performance problems can result.

In-House Power Quality Programs

Are you working to develop or expand your company's capability and expertise in power quality?

PowerLines can provide both interim as well as long-term support for your in-house power quality program:

- Training materials and OEM specific courses and seminars
- Tool and Test Equipment selection
- Documentation and Processes
- Analysis Tools and Templates
- Power Quality reports from your data
- Remote support for your field service organization: phone, email, fax
- On-site support as needed

Other Services

Electrical Safety



- Electromagnetic Fields (EMF)
- Touch Voltages / Micro-Shock
- Leakage Current
- Grounding

Training and Documentation

- In-House Seminars
- Training Program Development



- Documentation Review
- Technical Writing
- Applications Notes and Articles
- Web-Page / HTML Design
- PowerPoint Development

Installations

- NEC And NFPA Compliance
- Installation Efficiency
- Site Acceptance Testing
- Reduce Installation Costs Through Optimum Electrical Design