

POWER QUALITY FOR ELECTRICAL CONTRACTORS

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EXECUTIVE SUMMARY

Large numbers of sensitive electronic equipment (e.g., computers, microprocessor- based communication, safety and security, and electronic control systems and facsimile equipment) are being used in new and existing buildings to support worker productivity. To meet current and future needs, a building must establish an electrical environment that is hospitable not only to those who work within it but also to the changing electronic technologies on which their productivity advances rely.

All too many of these electronically enhanced buildings are incapable of supporting the electrical requirements of such equipment. Most of this equipment is vulnerable to fluctuations in power supply and is sensitive to intermittent electrical disturbances. As a result, power quality is becoming an increasingly important concern for building owners and end users.

The *Power Quality for Electrical Contractors Applications Guide* (Guide) discusses the technical issues involved in providing for good power quality. Targeted to the electrical contractor audience, its purpose is to increase understanding of the technical factors involved in power quality problems and to offer recommended solutions for their mitigation.

The Guide is presented in two volumes:

Volume I-Power Quality Fundamentals

Volume 2-Recommended Practices