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C-1 rev 3/02



Since 1971

Lightning Eliminators & Consultants, Inc.

**Systems Group
Worldwide Consulting Services**



**Lightning Protection
Grounding
Power Conditioning**



CONSULTING SERVICES

Introduction

The rapidly advancing field of electronic-based systems has created a problem unknown to earlier electrical and electronic products. Components have become smaller and more densely packed with lower operating voltages, making systems far more sensitive. Processor speeds can now exceed one trillion operations per second! Lightning and its influences have been the greatest contributor to both destructive and disruptive phenomena; to power lines, data lines, communications lines, and even the overall facility. Other factors of a less obvious source create similar problems. Costs for replacing equipment, down time and data is in the billions of dollars world wide.

Solving these problems requires a specialized form of expertise in lightning protection concepts. This type of expertise in power systems protection and conditioning systems is usually not available within most engineering departments or within electrical engineering firms. Techniques used as little as five years ago are ineffective in the contemporary systems environment.

With over 30 years of engineering experience originating in NASA and the United States space programs, LEC's engineering and consulting teams work to provide guaranteed results based on the NASA engineering model - protecting

system reliability. We serve Fortune 500 clients in the fields of Power Conditioning, Grounding and Lightning Protection. LEC and its engineering staff provide quality consulting and engineering services to companies that require lightning protection in many parts of the world. We are the only firm that guarantees results! We offer these services to you through either of two survey options:

A. Consulting Service

Under this form of service, the LEC consultant will visit the site of concern (when applicable), interview the appropriate people, survey the site, study the data, and prepare the report which will provide the required recommendations, potential sources and a cost estimate. The time to complete the site visit, study and report can take up to a total of 10 days in the US and Canada. International sites will take somewhat longer.

B. The Design Study

The design study involves a much more comprehensive analysis of the problem, plus the preparation of a formal report and conceptual drawings depicting any recommended design or design changes. Specifically, the following tasks would be accomplished:

1. Survey site and assess potential points of vulnerability to lightning or other forms of transient phenomena. Survey the grounding and surge systems as related to site vulnerability.

2. Study the data and determine the protective actions required and the resulting performance expected from these actions.
3. Prepare drawings reflecting the proposed work and parts required.
4. Prepare parts list and specifications for all changes and additions.
5. Prepare a statement of work for a system procurement package.
6. Provide a cost estimate for each of the recommended action items.
7. Prepare a report and final briefing.

Call, fax or email our engineering team for a quotation on your facility or project anywhere in the world.

