



LightningMaster
Corporation

Introduction

Creating a Safe Environment for Your Critical Equipment

In today's world, we use microprocessor based equipment to help make our operations faster and more efficient. It is difficult to find a toaster, let alone a sophisticated control system, that is not microprocessor based. This technology has revolutionized the way the world does business, allowing us to handle information at an ever accelerating rate.

However, with the advent of micro-processors, it has become apparent that the same environment which was adequate for equipment based on older technology, (take, for example, vacuum tubes), may not be adequate to allow new technologies to operate at their maximum reliability.

The newer technologies are much more susceptible to damage from all types of transients. Electronic equipment is susceptible to transients all the time, which can cause damage ranging from catastrophic failure to minor damage which eventually accumulates to the point of unreliable or random operation or ultimate failure. And, as devices operate faster, the problems become worse. It is not possible to make electricity travel faster. So, in order to make a device operate faster, the distances which the electricity must travel is reduced. As the distances and clearances are reduced, arc-over voltages become lower, exacerbating vulnerability to damage from transients.

When developing a system, the primary objective is to make it work to further its specific goals. You do not necessarily consider the environment in which it will operate.

2100-A Palmetto St., Clearwater, FL 33765
800-749-6800

lightningmaster.com

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At Lightning Master[®], we approach the situation differently. We are not specifically concerned with what your equipment does; whether it operates a cell site, wastewater treatment plant, nuclear reactor or petroleum refinery. We are specifically concerned with the environment in which it operates.

We optimize that environment to enhance the reliability and longevity of your equipment. It makes little sense to buy state-of-the-art equipment for your business or operation and install it in an environment where it will be subject to transients which may damage the equipment, cause data problems and shorten its useful life.

The Lightning Master[®] approach:

To that end, Lightning Master Corporation has developed a systems approach to help you solve your equipment reliability problems by creating a safe environment in which it may function. We offer services and equipment ranging from those needed to address a specific problem to turn-key optimization. Lightning Master[®] will:

- survey and analyze your existing environment
- provide a written report of findings and recommendations
- design your protection system
- write your specification
- manufacture and supply all required parts and equipment
- provide turnkey system installation or supervise installation by others
- provide continuing customer upgrade and warranty support

We provide protection in the highest lightning incidence areas of the US and other parts of the world where securing maximum personnel safety, reducing downtime, increasing reliability and optimizing equipment utilization through maximum availability is of critical concern

MAGS TYP (X) PLACES

SRAT TYP STAG PATTERN
AROUND CATWALK ON
TANK SHELL AND HANDRAIL

About Lightning Master Corporation

Established in 1984, Lightning Master[®] is a global, full service, static solutions, lightning and surge protection manufacturing company. We serve a wide range of customers including oil, gas, chemical and other industrial facilities. Our complete line of products, systems and consulting services are backed by our worldwide customer service. Our track record of success in the Americas, Asia, Africa, Europe and the Middle East has established LMC as a global authority on lightning and static protection.

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We wrote the book on Static Solutions and Lightning Protection.