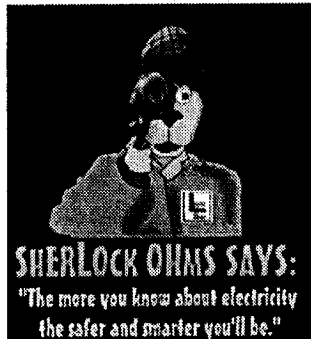


# Lewis Electric Update



News for Lewis Electric Customers Vol. 2 No. 1 / July, 1998



## SURGE PROTECTION

*The \$26 Billion - problem !*

*it's that time of year !!!*

\$26 billion a year is the estimated cost to U.S. companies in lost time and revenue caused by electrical power-related problems. To increase productivity and enhance competitiveness in global economy, companies have invested in computers, automated manufacturing systems, telecommunications systems, local area networks (LAN) and office equipment. Companies depend upon the reliable performance and longevity of these investments.

Innovative Technology's extensive line of transient voltage surge suppressors prevent equipment destruction, disruption, and damage caused by electrical transients. With the

Protector, your investment in sensitive electrical equipment is safe.

Transients are brief over-voltages or over-currents, typically lasting microseconds, caused by external and interregal events. Lightning, utility company grid switching, load switching by neighborhood facilities and variable speed drives are a few causes of power disturbances. Transient voltages range from only a few volts to over 20,000 volts with surge currents in excess of 10,000 amps, and can occur as frequently as 180,000 to 432,000 events per hour in extremely active environments. Studies have shown that nearly 80% of transient activity at a given facility is internally generated. From the normal switching on and off of copiers and air conditioning systems to robotics assemblies and welding machines, practically every industrial machine or system generates, or is adversely affected by, causes semiconductor degradation leading to premature failure, resulting in costly downtime and productivity loss.

### Inside

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**Happy  
4th of  
July!!!**

Welcome

TiB Bank of the keys

# “Current” Events

Your facilities electrical and electronic equipment is directly affected by power disturbances. All mission critical electric and electronic systems should be safeguarded to prevent disruption, damage and destruction.

So: don't forget to see us for all your surge protection needs, before it's to late.

## On the lighter side:

A programmer and an engineer are on a plane. The programmer leans over to the engineer and asks if he would like to play a game to pass the time. The engineer declines saying he would just like to take a nap. He then rolls to his side and tries to doze off.

The programmer persists and explains that the game is simple and a lot of fun. He explains, "I ask you a question and if you can't answer it you pay me \$5.00, then you ask me a question and if I can't answer it, I pay you \$5.00." Again the engineer politely declines and tries to sleep.

The programmer, now agitated say's "OK, if you don't know the answer you pay me \$5.00. Then you ask me a question and if I don't know the answer, I'll pay \$5.00. " This catches the engineer's attention and he sees no end to this torment unless he plays, so he agrees.

The programmer asks the first question, "what is the distance from the Earth to Mars?" The engineer doesn't say a word but hands the programmer \$5.00. His turn, the engineer then asks, "what goes up a hill on three legs and

comes down on four?" The programmer looks at him puzzled. He takes out his laptop and searches the Internet and the Library of Congress. Frustrated, he sends e-mail to all his friends -- all to no avail.

After about an hour, he wakes the engineer and hands him \$50.00. The engineer takes the money and turns away to get some sleep. The programmer is now very agitated, and asks , "well, so whats the answer?"

Without a word, the engineer reaches into his wallet, and deposits the \$50.00 bill and removes a \$5.00 bill and hands it to the programmer, turns and goes back to sleep. *SLM*

- Fire Alarm Systems
- Closed Circuit TV
- Telephone Systems
- Home Automation
- Surge Suppression
- Design and Build
- UPS Systems
- Commercial Electric
- Packing Houses
- Nurseries and Farms
- Electric Motors
- Automatic Gate Openers

