SURGE PROTECTION
MORE THAN AN ACCESSORY

In a 2017 survey of electrical designers, electrical planners, and electrical engineers who worked in designing/renovating electrical systems in industrial facilities, healthcare facilities, and IT centers, the Electrical Safety Foundation International found:

- 42.4% of all respondents use the 2017 National Electrical Code when designing or installing.
- 17.2% of respondents were in states where the 2017 NEC has been adopted.
- 94% of those surveyed find surge protection to be very or extremely important to building owners and tenants.

Most frequently mentioned surge protection devices designed or installed into buildings:

- **TYPE 2 Surge Protection Devices**: 35%
- **TYPE 1 Surge Protection Devices**: 29%
- **TYPE 3 Surge Protection Devices**: 21%
- **Point-of-Use Surge Protection Devices**: 15%

FREQUENCY OF SURGES

- Voltage surges significant enough to cause **EQUIPMENT DAMAGE** occur with monthly or greater frequency in:
  - 69% of Healthcare facilities
  - 76% of Industrial facilities
  - 80% of IT center facilities

- Surges significant enough to cause **INJURY OR DEATH** occur annually, or less than once a year in:
  - 56% of Healthcare facilities
  - 54% of IT center facilities
  - 51% of Industrial facilities

REASONS SURGE PROTECTION WAS INSTALLED:

- 26% Customer Request
- 16% Other
- 29% Need to Protect Expensive Equipment
- 29% Code Requirements
- 16% Other

REASONS SURGE PROTECTION WAS NOT INSTALLED:

- 37% Cost of Surge Protection Devices
- 30% Inadequate Surge Protection Technology
- 33% Lack of Concern About Surges

CAUSES OF SURGE:

- 24% Faulty or Damaged Wiring
- 15% Electrical Equipment Turning Off/On
- 15% Static Electricity Discharge
- 21% Lightning Strike
- 25% Other

Circuit Interrupters and Over Current Devices are **NOT** Surge Protection Devices. Learn more at ESFI.org

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