

# TOTAL FACILITY ELECTRICAL PROTECTION

## NVENT ERICO SIX POINT PLAN OF PROTECTION

Lightning strikes and the dangerous over-voltage surges caused by lightning and man-made events represent a direct threat to people, buildings and sensitive electronic equipment.

Today, the consequences of an unexpected lightning strike or power surge can be catastrophic for a business. Proper protection can save thousands of dollars in damage, operational downtime and lost business opportunities.



### 1. CAPTURE LIGHTNING STRIKE

Capture the lightning strike to a known and preferred attachment point using a purpose-designed air terminal system, including the nVent ERICO Dynasphere.



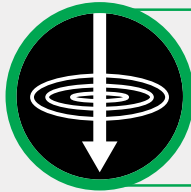
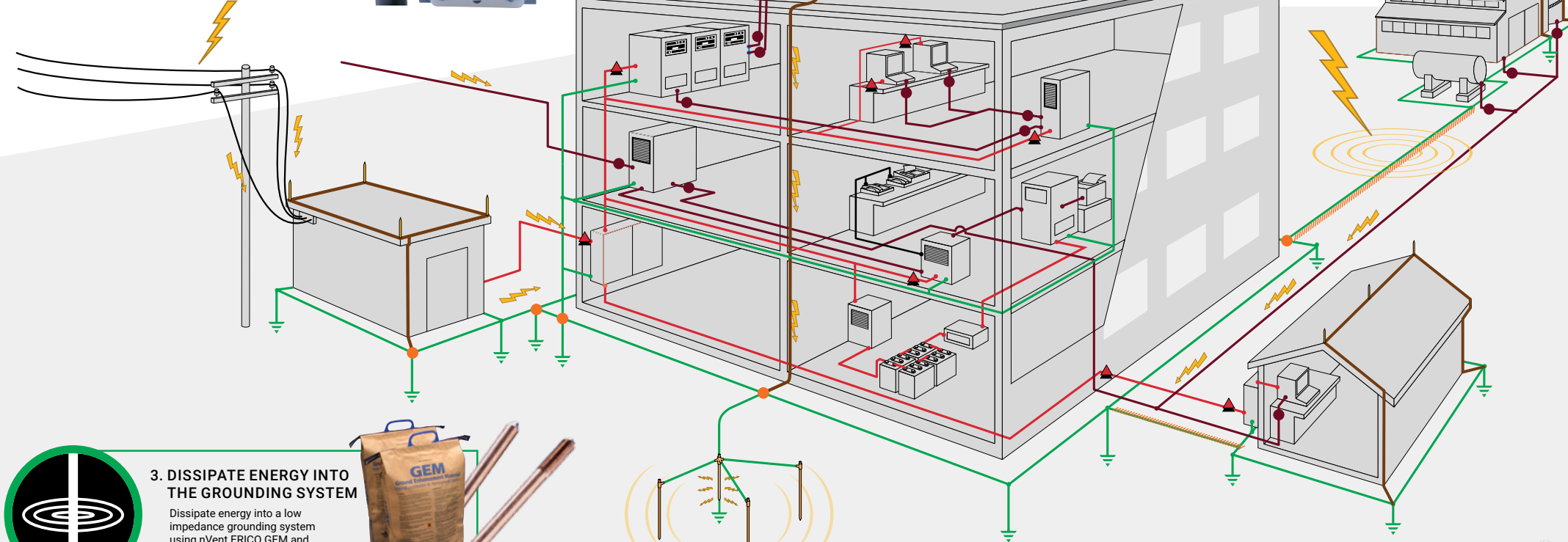
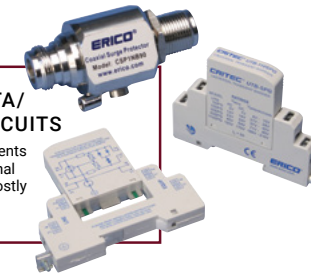
### 2. CONVEY ENERGY TO GROUND

Conduct the energy to the ground via a purpose-designed downconductor.



### 6. PROTECT LOW VOLTAGE DATA/TELECOMMUNICATIONS CIRCUITS

Protect equipment from surges and transients on incoming telecommunications and signal lines to prevent equipment damage and costly operational downtime.



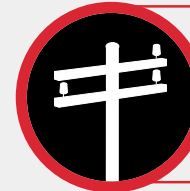
### 3. DISSIPATE ENERGY INTO THE GROUNDING SYSTEM

Dissipate energy into a low impedance grounding system using nVent ERICO GEM and nVent ERICO ground rods.



### 4. BOND ALL GROUND POINTS TOGETHER

Bond all ground points to eliminate ground loops and create an equipotential plane.



### 5. PROTECT INCOMING AC POWER FEEDERS

Protect equipment from surges and transients on incoming power lines to prevent equipment damage and costly operational downtime.



## TOTAL FACILITY PROTECTION

The consequences of an unexpected lightning strike or power surge can be catastrophic for a facility:

- Personnel are at risk
- Critical equipment may be damaged or destroyed
- Data can be corrupted
- The costs of operational downtime and lost revenue can be very substantial

As industries become more dependent on increasingly sensitive equipment, proper protection from lightning and dangerous over-voltage transients is necessary.

With more than a century of research, testing and product development, nVent ERICO has acknowledged that no single technology can totally eliminate vulnerability to lightning and surges.

The nVent ERICO Six Point Plan of Protection is designed to provide total facility protection by integrating several concepts.

The Six Point Plan of Protection will minimize the risk of damage to facilities through:

- Direct lightning strike protection
- Grounding and bonding
- Surge and over-voltage transient protection

## ABOUT NVENT ERICO

For more than a century, nVent ERICO has been the global leader in precision-engineered electrical products for protecting structures, equipment and people. We serve the rail, commercial, telecom, utility, and industrial markets with application-specific facility electrical protection solutions. Our offices are headquartered in Solon, Ohio, USA, with a network of sales locations, manufacturing and distribution facilities serving more than 30 countries worldwide.

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