RANDOM
Lightning Suppressor

DESTRUCTIVE
Until Now!

The new standard in lightning strike prevention!
The Problem With Lightning

Electrical Infrastructure

• 35% — Annual lightning related power outages exceeding $1 Billion in losses.
  Source: Ralph Bernstein, EPRI

• 19% — Nuclear power plant safety activations initiated by lightning.
  Source: U.S. Nuclear Regulatory Commission.
Franklin Rods Designed To Take a Strike!

$5 Billion+ — Total insurance losses due to lightning strikes reported in 2006.
Source: TMCNet Newsletter, 2006
Evolution of Lightning Protection Systems
Inspired By Dr. Nikola Tesla
Completely random and unpredictable?
The Solution

CMCE® 120
Lightning Suppressor

The new standard in lightning strike prevention!
Product Specifications
At-Risk Critical Assets
The Development of Lightning
Operating Principles

- Six Modified Capacitors
- Dielectrics

Negative Charges
Potential Difference
Positive Charges

Access energy is downstreamed harmlessly into the ground
Before & After Lightning Concentration

1997 – 2002
Unprotected

2003 – 2008
Protected
Background

- Plant Services Ford Motor & AK Steel Plants
- 2016 – Lightning Strike to Plant Substation
- $400,00 damage
  - Repairs
  - Preventative Maintenance
  - Purchased power to maintain service levels
Project Profiles

Dearborn Industrial Generation Facility
Project Profiles

Dearborn Industrial Generation Facility
Microgrid Conceptual Coverage Illustrations

Cornell University Utilities
Microgrid Conceptual Coverage Illustrations

Dartmouth College Power Plant
Thank you!