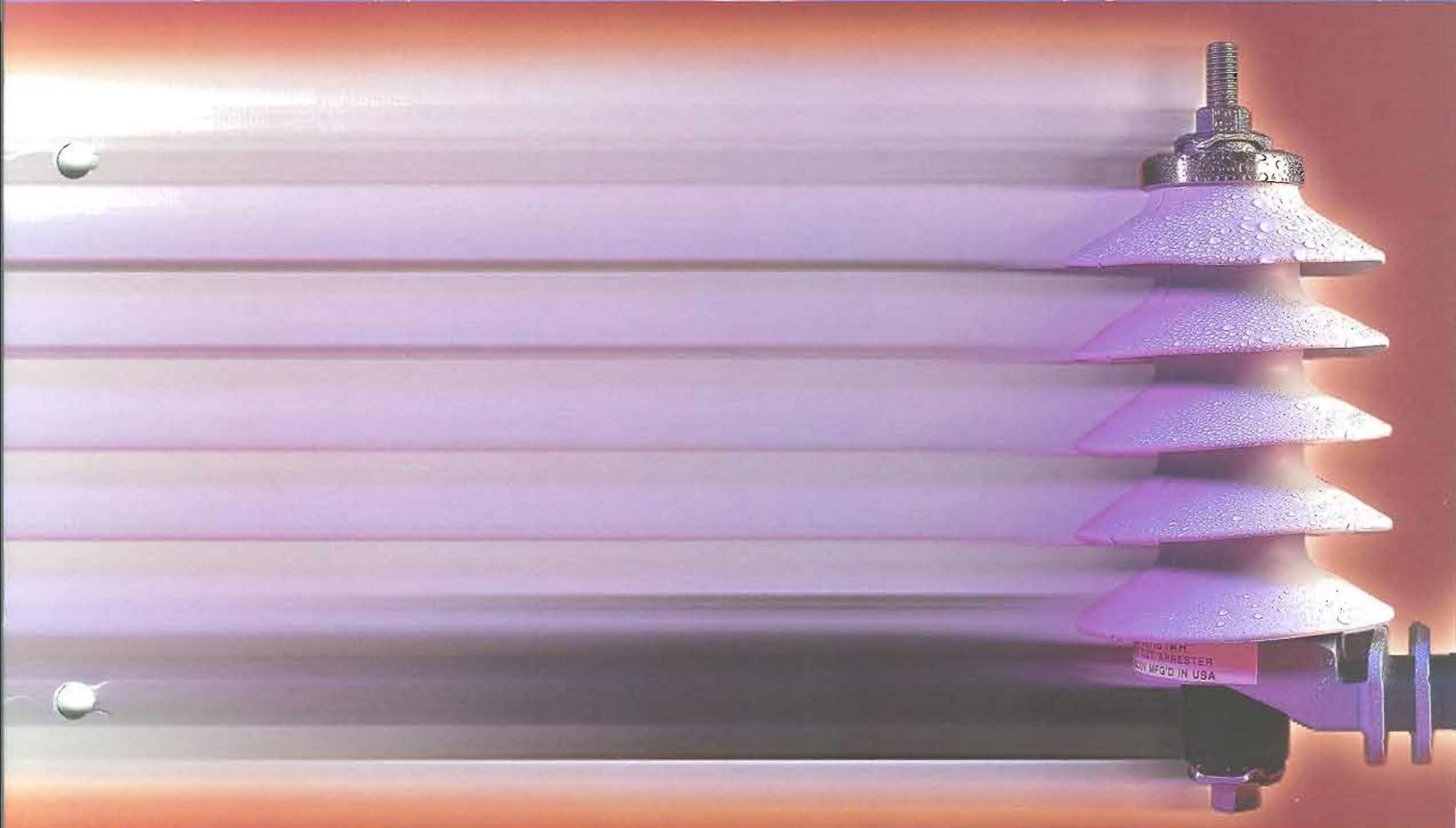


Your Key to Lightning Protection



THE ULTRASIL™ DISTRIBUTION ARRESTER

Using The UltraQUIK™ Ordering System

COOPER

Cooper Power Systems

UltraSIL arresters are manufactured using highly-automated quality-controlled processes at our ISO9001-registered Olean, New York facility.

Dedicated In-House MOV Disk Fabrication

Cooper Power Systems manufactures all of the Metal Oxide Varistor (MOV) disks used in the UltraSIL arrester. The highly automated manufacturing process ensures uniform physical and electrical characteristics. This state-of-the-art process begins with computer-controlled mixing of the proprietary powder formulation. Once pressed and sintered (fired) into a high-density ceramic, the disk surfaces are precision ground, then coated with conductive electrodes using plasma deposition technology.

Arresters Assembled in a Clean Room

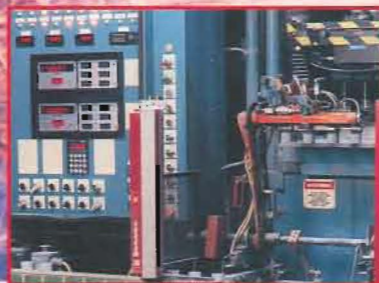
After rigid acceptance tests, the MOV disks, gap structures (for VariGAP® designs), and other internal components are assembled in a controlled clean room. This patent-pending process utilizes robotics and fluidized bed technology to form a solid cured epoxy and fiberglass coating on the internal components. The UltraSIL housing is then bonded onto the cured internal module to form a solid high-dielectric strength insulation system.



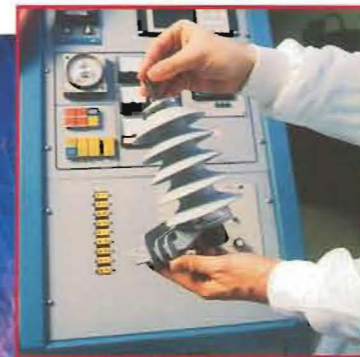
PLASMA DEPOSITION



ROBOTIC FABRICATION



FLUIDIZED BED TECHNOLOGY



CLEAN ROOM ENVIRONMENT



AUTOMATED MULTISTRESS TESTING



Thermal shock testing includes temperature cycling to -60°C.



UltraSIL arrester testing includes simulated rainstorm.

To ensure a superior level of performance in any environmental extreme, UltraSIL arresters have been subjected to exhaustive design testing. Our laboratory facilities feature automated data collection which consistently provides accurate test results.

ANSI/IEEE C62.11 Testing

Full certification testing has been performed in our facilities and confirmed by an independent test laboratory.

Outdoor Environmental Testing

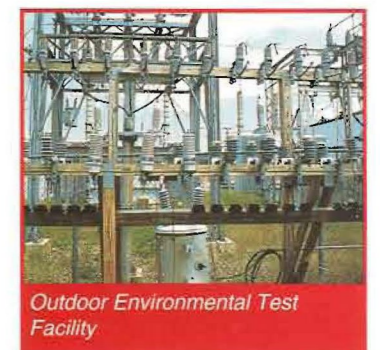
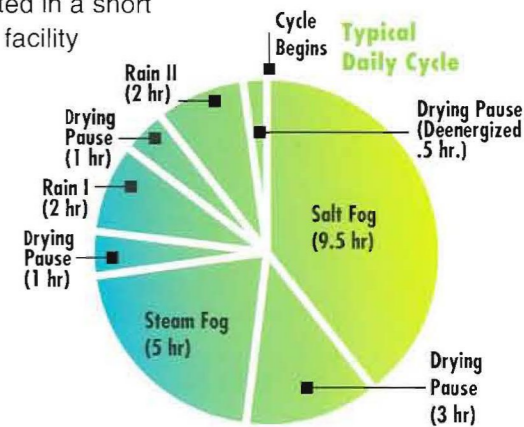
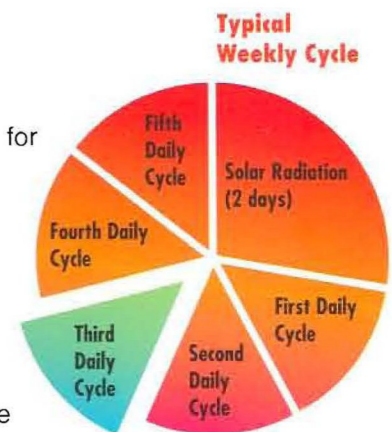
Outdoor environmental tests have been conducted on energized arrester designs for several years. Results from these tests were invaluable in the design of the UltraSIL arrester family.

Multistress Testing

Worldwide, the utility industry has determined that multistress testing provides the most realistic accelerated life test. Using repeated multistress cycles, many years of service can be simulated in a short period of time. Our Olean, NY facility utilizes several computer-controlled multistress test chambers which reproduce environments from frozen tundra to harsh summer sun. This testing has verified that the UltraSIL design will provide years of service in all environmental conditions.

Other Design Tests

Many other design verification tests have been performed on the UltraSIL arrester. Please ask your Cooper Power Systems representative for more detailed test information.



Outdoor Environmental Test Facility



Arrester Manufacturing Facility, Olean, NY



*Components and Protective Equipment
Operations Headquarters, Pewaukee, WI*

Product Literature Reference

VariSTAR® Configuration

Catalog — 235-35

*Certified Test Report — **Bulletin #95062***

*Installation Instructions (for Normal Duty,
Heavy Duty and Riser Pole Applications)*

Service Information #S235-35-1

VariGAP® Configuration

Catalog — 235-37

*Certified Test Report — **Bulletin #95061***

*Installation Instructions (for Normal Duty,
Heavy Duty and Riser Pole Applications)*

Service Information #S235-35-1

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*Contact your Cooper Power Systems representative
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**ISO 9001 : 2000-
certified quality management systems**



Cooper Power Systems

Bulletin Number 95060 - 4/97
Supersedes 3/96
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