

# PROTECTA\*LITE® System

## Quality Features

### DYNAVAR® Arresters

- Metal-oxide varistors
- High energy capacity
- Excellent life expectancy
- Polymer housed
- Nearly 20 years experience
- Leak resistant design

### HI\*LITE® Insulators

- Over 25 years in production
- Over 4,000 miles of line
- ESP™ - Silicone alloy rubber
- Live silicone interface with o-ring seals
- Swaged end fittings

These products in combination make the PROTECTA\*LITE® System. Strategically placed along your transmission or distribution line, the PROTECTA\*LITE® System can eliminate backflash and impulse-flashover problems. Call your Ohio Brass representative today.



POWER SYSTEMS, INC.

Web: <http://www.hubbellpowersystems.com>  
E-mail: [hpsliterature@hps.hubbell.com](mailto:hpsliterature@hps.hubbell.com)

#### UNITED STATES

HUBBELL POWER SYSTEMS, INC.  
210 N. Allen  
Centralia, Mo 65240-1395  
Phone: 573-682-5521  
Fax: 573-682-8714  
e-mail: [hpsliterature@hps.hubbell.com](mailto:hpsliterature@hps.hubbell.com)

#### CANADA

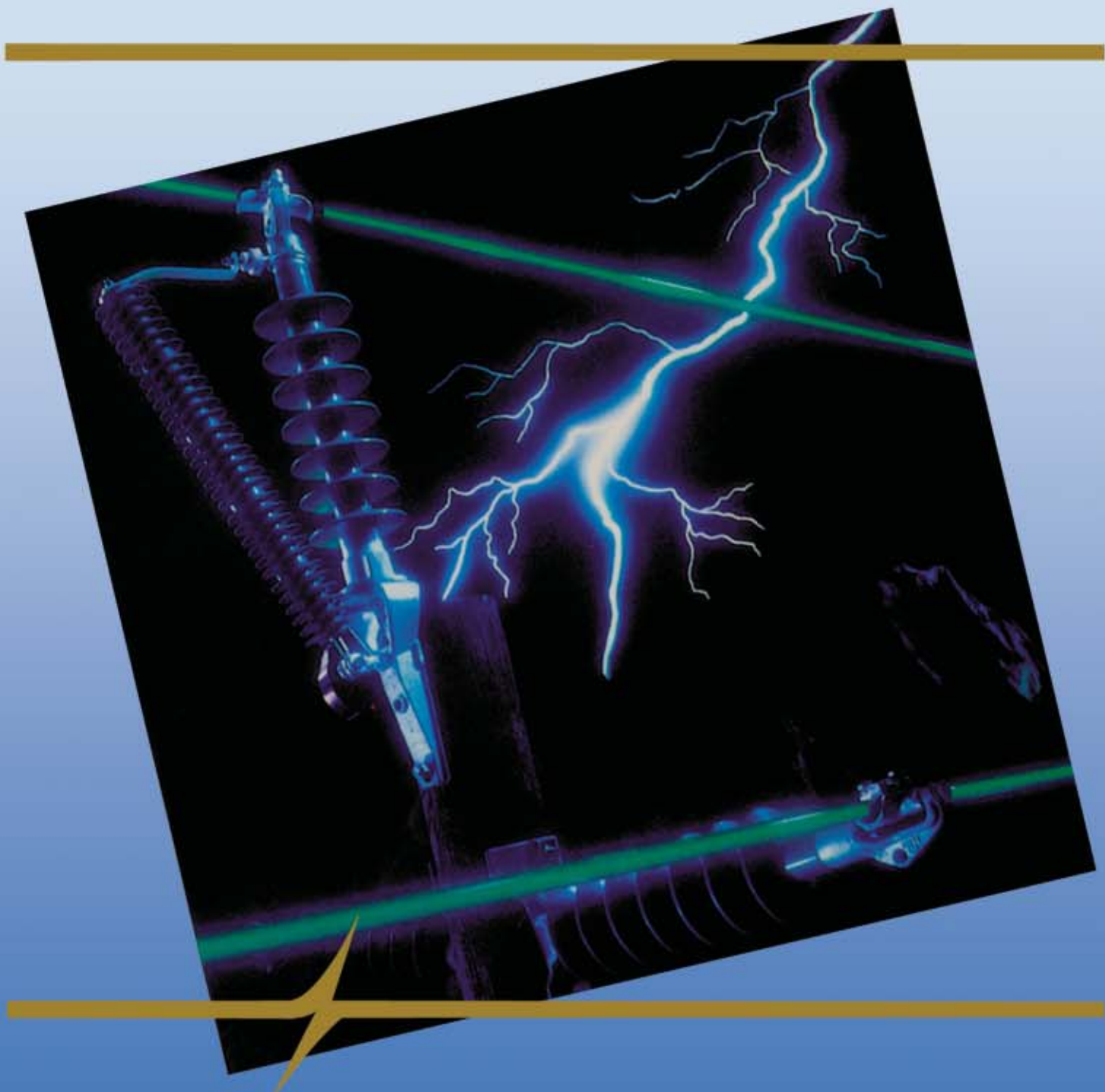
HUBBELL CANADA, INC.  
870 Brock Road South  
Pickering, Ontario L1W 1Z8  
Phone: 905-839-1138  
Fax: 905-831-6353  
e-mail: [infohps@hubbellonline.com](mailto:infohps@hubbellonline.com)

#### MEXICO

HUBBELL DE MEXICO, S.A. DE. CV  
Av. Coyoacan No. 1051  
Col. Del Valle  
03100 Mexico, D.F.  
Phone: 52-55-9151-9999  
Fax: 52-55-9151-9988  
e-mail: [vtasdf@hubbell.com.mx](mailto:vtasdf@hubbell.com.mx)

#### ASIA

HUBBELL S.E. ASIA PTE. LTD.  
23 Tagore Lane #03-16  
Tagore 23 Warehouse  
Singapore 787601  
Phone: 65-6454-4772  
Fax: 65-6454-4775  
e-mail: [hpsliterature@hps.hubbell.com](mailto:hpsliterature@hps.hubbell.com)



# PROTECTA\*LITE® System

combines the #1 insulator with the #1 arrester



POWER SYSTEMS, INC.



ANDERSON™ CHANCE FARGO HUBBELL OHIO BRASS

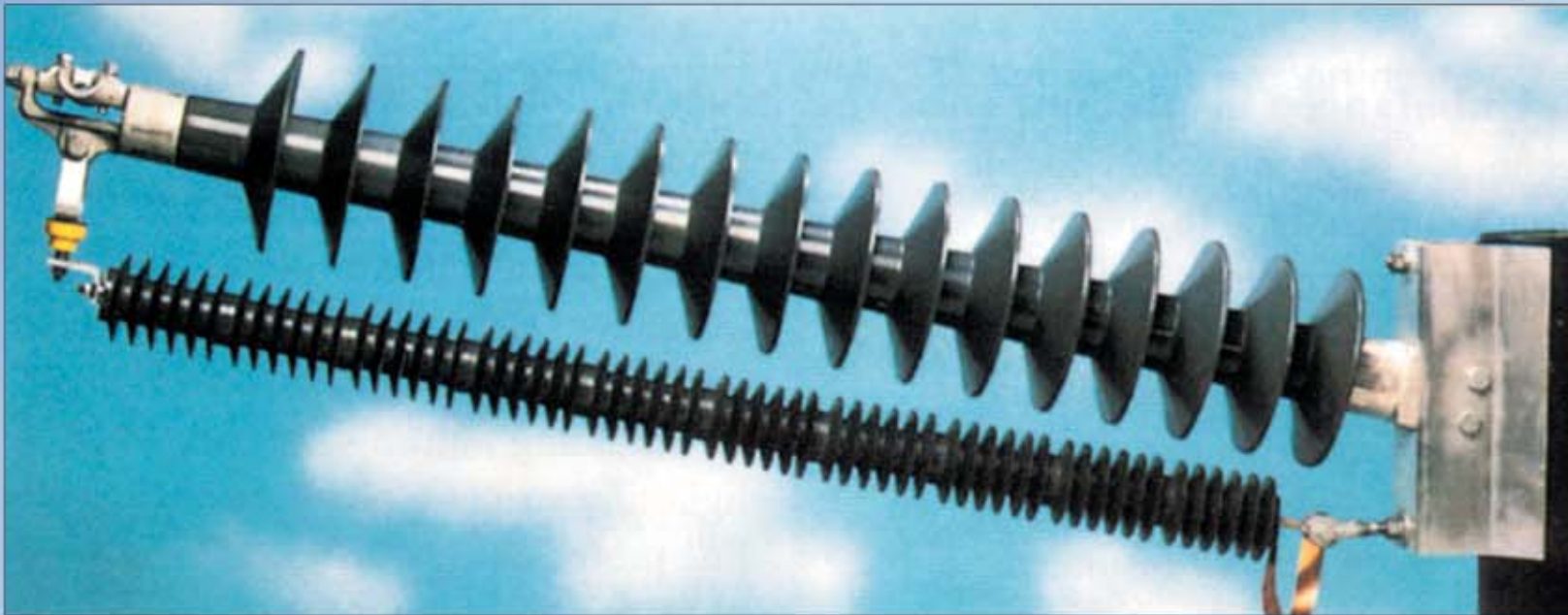
©copyright 2004, Hubbell Power Systems

Bulletin EU1235-H rev4/04

NOTE: Because Hubbell has a policy of continuous product improvement, we reserve the right to change design and specifications without notice.

# The "Clean Power" Combination

- PROTECTA\*LITE® System virtually eliminates lightning-related breaker operations resulting in less maintenance and improved service reliability.
- Equivalent performance to overhead shield wire can often be obtained by using an arrester on the top phase only.
- Performance superior to an OHSW can be obtained by using arresters on all three phases.
- Unlike shield wire, success is not limited by the requirement for a good ground.
- When PROTECTA\*LITE® System is installed on all three phases, shielding failures and backflash problems are virtually eliminated.
- Easy to install on either new or existing structures.



- Installation can be accomplished on an "as needed" basis. It may not be necessary to include these as a "budget item."
- May be installed in "trouble zones" only.
- Can be installed on lines with an OHSW to eliminate backflash problems caused by poor grounding. In many cases this is less expensive than improving grounds which may cost thousands of dollars.
- Electrical losses are minimal.
- Polymer material has a life expectancy in excess of 50 years.

- The PROTECTA\*LITE® Arrester can pass 100,000 amp discharges and remain in service.
- The PROTECTA\*LITE® Arrester has a "No Lockout" feature.
- Upgrading transmission lines is facilitated with the PROTECTA\*LITE® System by the ability to use existing structures, right-of-way, and in some instances the same insulators.
- PROTECTA\*LITE® Arresters offer a clean appearance and are more aesthetically appealing than a taller structure with an OHSW.

- PROTECTA\*LITE® System is available from the factory in combination with an insulator for new construction or without an insulator for retrofit applications.

- Metal-oxide varistor technology has existed since 1976. The life expectancy of MOV blocks far exceeds the expected life of any transmission line.
- HI\*LITE® insulators, commercially available since 1976, have proven polymer durability.
- PROTECTA\*LITE® System may discharge hundreds of surges without diminishing life expectancy.
- The OHIO BRASS® Polymer Arrester has been available since 1986 with an electrical failure rate less than .002 percent in environments with the severe lightning duty.

