

Lightning Diverter Systems, Inc.

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Ref: Lightning Protection for Uninterruptible Power Source at
base of 1200 foot tower.

Lightning Diverter Systems installed a SCI Model 1208VF3-8T
suppressor in April 1991 to protect the input power of a 50
kilowatt uninterruptible power source (UPS). The suppressor is
at an unmanned microwave repeater site in an equipment building
at the base of a 1200 foot tower in Southeastern Georgia. FY '89
lightning caused damages estimates exceed \$120,000.

Surge currents at the input power of the UPS can be delivered
from both the load and line sides of the suppressor. Our
customer reports a significant improvement in equipment
reliability and availability since completion of lightning
protection measures that included installation of the SCI
1208VF3-8T suppressor.

There have been lightning strikes to the site tower as indicated
by the need to replace approximately 12 fuses in the suppressor.
On occasions only one fuse had to be replaced. On other
occasions all three fuses had to be replaced to restore
suppressor protection. The suppressor is checked at 30 day
intervals and when microwave equipment alignment is required.

The 120VF3-8T suppressor has experienced no failures since
installation. Replacement of input fuses has always restored
the suppressor protection capabilities.

THIS DEVICE IS STILL IN SERVICE