

SMOKESTACK LIGHTNING, INC.

Lightning Rods \wedge Surge Protection

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OPERATION AND MAINTENANCE

LIGHTNING PROTECTION SYSTEM

I. OPERATION:

The lightning protection system is self-operating. It will need no upkeep aside from the recommended annual inspection.

II. MAINTENANCE:

An annual inspection of this lightning protection system is recommended. This inspection should include the following checkpoints.

All air terminals. Assure that none are bent, cracked, broken or otherwise damaged, or that the cable connection is loose or damaged.

All bonds to metal bodies. Are they still tight; any physical damage; any sign of removal and improper reattachment; any new equipment added and not bonded?

Tee splices and other connectors. Still tight; all leads firmly connected; any loose ends?

Through roof connectors. All connections firm; all roof conductors attached to down conductors?

Secondary service arrestors. Are all leads intact? Arrestor body damaged?

Cable holders. Check that all holders and similar attachments are still firmly attached, spaced properly (at 3'0" on centers), any new added runs are secured properly.

Grounds. Are down conductors undamaged and still tightly attached; any evidence of damage; fittings still sound, not cracked, bolts unbroken? If there is any evidence of mechanical damage to the system or any construction work or additions, grounds in the immediate area should be carefully checked.

B. It is recommended that at five-year intervals a qualified engineer or lightning protection installer conduct an inspection. This five year inspection should include a ground resistance check, using an approved ohms resistance-measuring device.

SURGE PROTECTION

I. OPERATION:

A properly installed surge protection device is self- operating. The specifications for installation and maintenance should be retrieved from the manual for the specific surge device in use. It is recommended, however, that all surge devices be examined (in the manner indicated in the manual) after each lightning storm.

II. MAINTENANCE:

Regardless of the occasional examination of the surge devices after a storm, an annual inspection of all surge devices (in the manner indicated by the manual) is recommended.