

HEARY BROTHERS LIGHTNING PROTECTION CO., INC.
 11291 MOORE ROAD
 SPRINGVILLE, NY 14141

ANNUAL INSPECTION CHECKLIST
 FOR MULTIPLE-POINT TYPE SYSTEMS
HBF-5

I. Visual Inspection of Roof Top Components

ITEM #	COMPLETED	DATE	DESCRIPTION OF PROCEDURE
1			Visual inspection of over all system condition. Appearance, (neat, dislodged, broken cables etc)
2			Visually inspected all air terminals. Verify that size and quantity is sufficient for the project. Refer to NFPA-780/UL 96A for requirements Note all bent, broken, and/or dislodged air terminals.
3			Verify that all air terminals (lightning rods) have been placed at 20'- 0" maximum spacing around roof perimeter and/ or along roof ridges)
4			Verify that perimeter air terminals are within 2'- 0" of the outside edge including corners of the structure.
5			Verify that mid -roof air terminals are spaced at maximum spacing of 50'- 0" in accordance with NFPA 780 Figure 3.8.1.2
6			Verify that interconnecting mid roof cables that connect mid roof air terminals are properly spaced. Further verify 150' 0" maximum length of cross run conductor to the main perimeter or down conductor in accordance with NFPA 780 Figure 3.8.1.2
7			Verify that copper materials are not mounted or in contact with aluminum materials and vice-versa.
8			Verify that all conductors are fastened horizontally and vertically not more than 3' -0" O. C. Maximum spacing
10			Verify that metallic bodies of inductance situated within 6' 0" of lightning conductor or another bonded metal body shall be interconnected to the lightning conductor system, unless inherently connected.
11			Verify air terminals and bonding connectors are installed on roof top, fans, ventilators, a/c units etc in accordance with NFPA 780/ UL 96A
12			Remove and clean all cable connections including but not limited to; Bonding plates, lugs, cable to cable connectors etc.

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II. INSPECTION OF LIGHTNING PROTECTION GROUND SYSTEM

ITEM #	COMPLETED	DATE	DESCRIPTION OF PROCEDURE
1			Locate all thru roof connection to down runs or to structural steel. Visual inspect for damage and tightness.
2			Verify quantity of down runs/ connections to ground is adequate per NFPA780 and UL96A
3			If connection is to steel verify that connect is made in accordance with NFPA 780 and that area under connection is clean of all paint, oil, grease etc.
4			Verify that spacing of down conductors at roof level are installed in accordance with NFPA-780 and UL96A (i.e. 100' on average)
5			Visually inspect connections to rebar/ structural steel etc, for corrosion remove connections clean and reinstall. Replace as necessary
6			Visually inspect ground rods and cable connections to ground rods. Remove connections clean cable, connection and rod, (If ground loop is means of down conductor termination then remove connection to loop and clean cables.)

III. Ground Resistance Testing and TVSS Responsibilities

ITEM #	COMPLETED	DATE	DESCRIPTION OF PROCEDURE
1			Perform Ground Resistance on lightning protection grounding system. use the "Fall of Potential" Method. Record results and submit to owner. Verify that levels are in accordance with the requirements of the applicable standards
2			Inspect and document status of surge protection / TVSS (Transient Voltage Surge Suppression) systems/ equipment. Note bene: The Transient Voltage Surge Suppression of all services including but not limited to, services entrances, computers, copiers, telephones, fire alarms, security systems and all other electrical / electronic systems is not the responsibility of the manufacturer of the Lightning Protection system and is the responsibility of the owner, electrical engineer, electrical contractor or others. TVSS system should be installed in accordance with NEC 70 or other applicable codes and/or standards.

IV. Documentation requirements for inspections

ITEM #	COMPLETED	DATE	DESCRIPTION OF PROCEDURE
1			<p>Prepare and submit a 2 copies of this form to owner along with Video tape detailing all inspection performed. The videotape shall include detailed images of the roof top system, ground system, ground system testing etc (steel), down conductors, ground rods/ grids and location of all buried or concealed connections and components. Also provide video detailing the the testing of ground system as well as cleaning of all connections. Documentation shall be retained by the facility engineer for assignment of any maintenance repairs.</p>

Notes/ Conditions

Inspect and confirm that no additions and/or modifications to the structure necessitate additional lightning protection. If there have been modification or additions to the structure contact the manufacturer or distributor, to evaluate the need for additional lightning protection.

This checklist is not inclusive of all factors governing the installation and maintenance of a Faraday Multiple Point System

It is intended as a guide for the building owner / maintenance people to perform annual inspections. The intention of any lightning protection system is to provide protection from direct strikes to the structure of the building. It is not intended to provide protection for electrical and / or electronic equipment sensitive equipment, computers and/ or other such equipment.

Likewise it does not cover damage caused by surge/transients which enter or exit a structure

Any litigation regarding the product performance, our contractual relationship imposes the cost of such litigation the parties instituting the litigation. We do not bear such expense since it is not built into the cost of the system, our experience is that the systems when properly installed and maintained, they do not experience failure and we encourage all customers to comply with proper maintenance procedures, including without limitation annual inspections.