



## **LIGHTNING PROTECTION INSTALLATION INSTRUCTIONS**

### **A. Introduction**

Convault® tanks should be grounded to provide lightning protection in accordance with NFPA 780 Standard for the Installation of Lightning Protection Systems latest edition. Each Convault® tank is provided with two grounding lugs or grounding bolts to meet the lightning protection requirements of Section 6-4.1 of NFPA 780 for “Aboveground Tanks at Atmospheric Pressure Containing Flammable Vapors or Liquids that Can Give Off Flammable Vapors”.

### **B. Priority of Codes, Rules and Regulations**

Use the following list as your order of priority:

1. Local jurisdiction codes, rules and regulations,
2. Applicable state codes, rules, and regulations,
3. Applicable regional and national codes, rules and regulations,
4. Component manufacturer’s recommended installation, maintenance and operating procedure,
5. These Convault® Installation Instructions for Lightning Protection.

### **C. Conductor Cable Materials Specifications**

Conductor cable material, cross sectional area, size of each strand and weight per length shall be in accordance with Section 3-1 & 3-2 and table 3-1.1 (a) and 3-1.1(b) of NFPA 780.

### **D. Ground Rods**

Ground rods shall be not less than ½ in. (12.7 mm) in diameter and 8 ft (2.4 m) long. Grounding rod materials specification and installation shall be in accordance with section 3-13 Ground Terminal of NFPA 780.

### **E. Ground Rod Termination**

The down conductor shall be attached to the ground rod by bolting, brazing, welding or using high-compression connectors listed for the purpose. Clamps shall be suitable for direct soil burial. Lightning installation shall be in accordance with section 3-13.1.1 through 3-13.1.5 and figures 3-13.1.2, 3 and 5 of NFPA 780.