AMMO 48/NFPA-780 LPS INSPECTION, MAINTENANCE AND TESTING CERTIFICATION PROGRAM
A DoD Three Day Seminar

Course Objectives: NFPA-780 Certification. To understand how damage can occur and to learn what measures can be employed for maximum lightning protection. Designed for personnel who inspect, maintain and test LPSs. Graduates are certified to meet the LPS requirements in AFI 32-1065 and PAM 385-64 Personnel Qualifications.

1. Introduction to NLSI, to Attendees and to the Workshop.

2. Fundamental Concepts of Lightning Protection including: Atmospheric Physics 101; Lightning Characteristics; Lightning Behavior; Lightning Safety Overview.


4. The Grounding and Bonding Imperative: Guidelines; Electro-Geological Model; Real World 25 Ohms per NEC 250; Solutions To Difficult Grounding Situations; Resistivity vs Conductivity Explained; Case Studies; Exam.


9. Relevant Codes & Standards are described in detail. Examples: NFPA-780; DA PAM 385-64; USAF AFI 32-1065; USAF AFMAN 91-201: NFPA-70 (NEC); UFC 3-575-01; UFC 3-520-01; Others. Exam.

10. Lightning Detection: USA Lightning Distribution; Available Detector Technologies – Pros & Cons; Smart Phone Apps; Recommendations.

11. Inspection, Maintenance, Repair and Testing. In-Field Measuring (where available) with 3-Point Fall of Potential and Clamp-On Test Meters; Tour and Critique of Facility LPSs (weather permitting). Exam.

12. Lightning Protection for Outdoor Workers including: Safe/Not Safe Zones; Physical & Psychological Damage; Safety Measures for Work & Recreation; Shelters; Ready-To-Go Worker Safety Documents, Policies & Procedures.