



**DEPARTMENT OF THE AIR FORCE**  
**HEADQUARTERS AIR FORCE CIVIL ENGINEER SUPPORT AGENCY**

7 DEC 2011

**FROM:** AFCESA/CEO  
139 Barnes Drive, Suite 1  
Tyndall AFB FL 32403-5319

**SUBJECT: Engineering Technical Letter (ETL) 11-28: Mandatory Review and Update of Record Drawings for Nuclear-Capable Weapons and Munitions Storage and Maintenance Facilities**

**1. Purpose.** This ETL provides criteria for munitions and nuclear weapons-capable maintenance and storage facilities (munitions storage areas [MSA] and weapons storage areas [WSA]) which are existing, under design, or under contract, and located in the continental United States (CONUS). It addresses requirements for reviewing and updating record drawings and requirements for as-built drawings for projects under design or under contract. Future project requirements will be addressed in a revision of Air Force instruction (AFI) 32-1065, *Grounding Systems*.

**2. Application:** Air Force installations with munitions and nuclear weapons-capable maintenance and storage facilities. The requirements in this ETL are mandatory.

**2.1 Authority:**

- AFI 32-1065, *Grounding Systems*
- Air Force manual (AFMAN) 91-201, *Explosives Safety Standards*

**2.2. Coordination:**

- Headquarters, Air Force Safety Center, Weapons Safety Division (HQ AFSC/SEWN)
- Major command (MAJCOM) electrical engineers

**2.3. Effective Date:** Immediately

**2.4. Intended Users:**

- MAJCOM engineers
- Base civil engineers (BCE)
- Other engineers responsible for record drawings of new and existing nuclear weapons-capable maintenance and storage facilities

**3. References:**

**3.1. Air Force (<http://www.e-publishing.af.mil/>):**

- AFI 32-1063, *Electric Power Systems*

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- AFI 32-1065, *Grounding Systems*
- AFI 33-321, *Authentication of Air Force Records*
- AFI 33-322, *Records Management Program*
- AFI 33-364, *Records Disposition -- Procedures and Responsibilities*
- AFMAN 33-363, *Management of Records*
- AFMAN 91-118, *Safety Design and Evaluation Criteria for Nuclear Weapon Systems*
- AFMAN 91-119, *Safety Design and Evaluation Criteria for Nuclear Weapon Systems Software*
- AFMAN 91-201, *Explosives Safety Standards*

### 3.2. Department of Defense (DOD):

- Department of Defense Manual (DODM) 6055.09-M, *DoD Ammunition and Explosives Safety Standards*,  
<http://www.dtic.mil/whs/directives/corres/html/605509m.html>

## 4. Acronyms:

AFI	- Air Force instruction
AFMAN	- Air Force manual
ANSI	- American National Standards Institute
AEC	- Architectural Engineering and Construction
AGS	- Architectural Graphic Standards
BCE	- base civil engineer
LPS	- lightning protection system
MAJCOM	- major command

## 5. Records Maintenance.

**5.1.** It is imperative that record drawings for these critical facilities are up-to-date. The requirement is to have, on file, lightning protection system (LPS) drawings that are reproducible and that contain dimensions and material sizes for all LPS materials, from top view and applicable elevations. If possible (depending upon the age and condition of the record drawings), a 100-foot radius rolling sphere shall be superimposed on the elevations. Record drawings will be maintained in accordance with Air Force Departmental record management instructions, 33-series. Notification of completion of review and update to the MAJCOM electrical engineer and, in turn, the HQ AFCESA lightning protection systems engineer is required by 15 June 2012.

**5.2.** No ongoing or currently active project (awarded or under design) on a facility possessing an LPS system shall be accepted until drawings are delivered to and approved by the civil engineer squadron commander. A point of contact (POC) may be appointed by the BCE and a signature shall be required as proof of receipt and approval of as-built drawings. Drawings must meet American National Standards Institute (ANSI), Architectural Graphic Standards (AGS), and Architectural Engineering and Construction (AEC) standards.

**6. Waivers.** Temporary waivers to initial drawing updates will be considered, with supporting documentation. Electronic packages shall be provided to the HQ AFCESA lightning protection systems engineer. Waivers will only be considered for manpower shortages, operations tempo, and base-initiated projects to update the drawings, and the waiver will have an expiration date.

**7. Point of Contact:** Recommendations for improvements to this ETL are encouraged and should be furnished to the lightning protection systems engineer, HQ AFCESA/CEOA. The authority having jurisdiction on all matters discussed within this ETL is the lightning protection systems engineer. To reach the lightning protection systems engineer, e-mail [afcesar@tyndall.af.mil](mailto:afcesar@tyndall.af.mil), call DSN 523-6354 or commercial (850) 283-6354, or mail to 139 Barnes Drive, Suite 1, Tyndall AFB, FL 32408-5319.

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