

**BY ORDER OF THE
SECRETARY OF THE AIR FORCE**

AIR FORCE INSTRUCTION 32-1042

19 OCTOBER 2016



Civil Engineering

**STANDARDS FOR MARKING
AIRFIELDS**

COMPLIANCE WITH THIS PUBLICATION IS MANDATORY

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(Col Laurie K. Richter)

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This instruction implements Air Force policy directive (AFPD) 32-10, *Installations and Facilities*. It provides Air Force standards for marking airfield pavements and obstructions. It applies to all Air Force activities except those operating at airports owned and controlled by an authority other than the Department of Defense (DoD). For airports under Federal Aviation Administration (FAA) jurisdiction, use FAA Advisory Circular (AC) 150/5340-1, *Standards for Airport Markings*. For DoD facilities overseas, if a written agreement exists between the host nation and DoD that requires application of North Atlantic Treaty Organization (NATO), International Civil Aviation Organization (ICAO), or FAA standards, those standards apply as stipulated within the agreement. For cases where a Status of Forces Agreement (SOFA) specifically requires international standards, use ICAO Annex 14, Volume I, *Aerodromes* (for fixed wing runways) or Annex 14, Volume II, *Heliports* (for rotary wing helipads and runways), as appropriate. Air Force tenant organizations on civil airports should use these standards on the military portion of the airfield to the maximum extent practicable; otherwise, FAA criteria apply. Use this instruction in conjunction with the layout guidance provided in ETL 04-2, *Standard Airfield Pavement Marking Schemes* (or future UFC 3-260-04). This publication may be supplemented at any level, but all direct Supplements are routed to the Office of Primary Responsibility (OPR) of this publication for coordination prior to certification approval. The authorities to waive wing/unit level requirement in this publication are identified with a Tier ("T-0, T-1, T-2, T-3") number following the compliance statement. See AFI 33-360, *Publications and Forms Management*, for a description of the authorities associated with the Tier numbers. Submit requests for waivers through the chain of command to the appropriate Tier waiver approval authority, or alternately, to the Publication OPR for non-tiered compliance items. Refer recommended changes and questions about this publication to the OPR using the AF Form 847,

Recommendation for Change of Publication; route AF Forms 847 from the field through the appropriate functional chain of command. Ensure that all records created as a result of processes prescribed in this publication are maintained in accordance with Air Force Manual (AFMAN) 33-363, *Management of Records*, and disposed of in accordance with the Air Force Records Information Management System (AFRIMS) Records Disposition Schedule (RDS). The use of the name or mark of any specific manufacturer, commercial product, commodity, or service in this publication does not imply endorsement by the Air Force.

SUMMARY OF CHANGES

This document is substantially revised and requires complete review. This revision of Air Force Instruction (AFI) 32-1042 clarifies the application of criteria in the purpose paragraph; changes the waiver approval authority for waivers; clarifies waiver processing procedures; clarifies and updates information for marking obstructions on joint-use airfields; updates references to related documents; clarifies obstruction marking requirements for groups of obstructions; and updates the references, acronyms, abbreviations, and terms provided within the instruction.

1. Background. This instruction uses standards developed from:

- 1.1. FAA Advisory Circulars (AC).
- 1.2. NATO Standardization Agreements (STANAG).
- 1.3. Air Standardization Coordinating Committee (ASCC) Air Standards.
- 1.4. Annex 14 of the ICAO Convention on International Aviation.

2. Responsibilities.

2.1. The MAJCOM Director of Operations (MAJCOM/A3) is the approval authority for waiver requests for marking deviations, including application of non-standard markings. Non-standard markings are those not defined within any Air Force, Department Of Transportation (FAA and Federal Highway Administration [FHWA]), ICAO, ASCC, or NATO standard appropriate for application at the given installation.

2.2. Headquarters, Air Force Installation and Mission Support Center, Installation Engineering Division (AFIMSC/IZB) and AFIMSC Detachment 2 & 4 representatives perform a technical review, and forward waiver requests to the MAJCOM for coordination with ground safety, weapons safety (to ensure quantity-distance criteria are met), flight safety, airfield management, and flight operations prior to MAJCOM/A3 consideration.

2.2.1. AFIMSC Det 2 will provide technical reviews and forwarding of waiver requests for PACAF installations.

2.2.2. AFIMSC Det 4 will provide technical reviews and forwarding of waiver requests for USAFE installations.

2.2.3. AFIMSC/IZB will provide technical reviews and forwarding of waiver requests for all other installations.

2.3. Installation commanders may authorize additional standardized markings but will make a formal request for waivers of non-standard markings through HQ AFIMSC/IZB or designated AFIMSC detachment to MAJCOM/A3.

2.3.1. For Joint Bases, the Installation Commander is the Joint Base Commander responsible for installation support.

2.3.2. **EXCEPTION:** Installation commanders may not submit a formal request to exempt obstructions from obstruction marking requirements at joint civilian/military use airfields. For this instruction, a joint civilian/military use airfield is defined as an installation where written agreement between the military department and a local government agency authorize use of the military runways for a public airport. For joint civilian/military use installations, the installation commander will ensure all obstructions as defined within Federal Aviation Regulation Part 77, *Objects Affecting Navigable Airspace* (see extract in Unified Facilities Criteria [UFC] 3-260-01, *Airfield and Heliport Planning and Design*, Attachment 6) or ICAO Annex 14, as applicable, must be marked in accordance with either FAA AC 70/7460-1, *Obstruction Marking and Lighting*, or ICAO Annex 14, as appropriate. **(T-0)**

2.4. The Base Civil Engineer's (BCE) representative will:

2.4.1. Ensure that airfield markings comply with this instruction and ETL 04-2, *Standard Airfield Pavement Marking Schemes* (or future UFC 3-260-04 upon publication). **(T-0)**

2.4.2. Ensure that airfield markings clearly delineate closed and hazardous areas, especially during construction projects. **(T-0)**

2.4.3. Develop a schedule with local flight safety office and Airfield Manager for monitoring and periodic inspection of airfield markings and obstructions. **(T-2)**

2.4.4. Schedule maintenance and remarking of airfield and vehicular access roadway pavements. **(T-2)**

2.4.5. Prepare, coordinate and submit waiver requests and supporting documentation to airfield management, safety (flight, ground, and weapons), and flight operations for coordination before requesting the installation commander's approval for processing at HQ AFIMSC/IZB or the appropriate Detachment. **(T-2)**

2.4.6. Prepare, coordinate, and submit a final copy of all waiver requests to all interested offices at the installation, AFIMSC, and MAJCOM levels. At minimum, the BCE representative must provide copies of waivers to civil engineering, airfield management, and safety. **(T-2)**

JOHN B. COOPER, Lieutenant General, USAF
DCS/Logistics, Engineering & Force Protection

Attachment 1**GLOSSARY OF REFERENCES AND SUPPORTING INFORMATION*****References***

AFPD 32-10, *Installations and Facilities*

FAA AC 150/5340-1, *Standards for Airport Markings*

ICAO Annex 14 to the Convention on International Civil Aviation, Volume I, *Aerodrome Design and Operations*

ICAO Annex 14 to the Convention on International Civil Aviation, Volume II, *Heliports*

ETL 04-2, *Standard Airfield Pavement Marking Schemes*

AFI 33-360, *Publications and Forms Management*

AFMAN 33-363, *Management of Records*

Federal Aviation Regulation Part 77, *Objects Affecting Navigable Airspace*

UFC 3-260-01, *Airfield and Heliport Planning and Design*

FAA AC 70/7460-1, *Obstruction Marking and Lighting*

Adopted Forms

AF Form 847, Recommendation for Change of Publication

Abbreviations and Acronyms

AC—advisory circular

AFI—Air Force instruction

AFMAN—Air Force manual

AFPD—Air Force policy directive

AFRIMS—Air Force Records Information Management System

ASCC—Air Standardization Coordinating Committee

BCE—base civil engineer

DoD—Department of Defense

ETL—Engineering Technical Letter

FAA—Federal Aviation Administration

FHWA—Federal Highway Administration

ICAO—International Civil Aviation Organization

MAJCOM—major command

NATO—North Atlantic Treaty Organization

RDS—Records Disposition Service

SOFA—Status of Forces Agreement

STANAG—Standardization Agreement

UFC—Unified Facilities Criteria