

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

AIR FORCE INSTRUCTION 32-1052

24 DECEMBER 2014

Civil Engineering

FACILITY ASBESTOS MANAGEMENT



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This instruction implements Air Force Policy Directive (AFPD) 32-10, *Installations and Facilities*, and AFPD 32-70, *Environmental Quality*. It assigns responsibilities and establishes requirements to incorporate facility asbestos management principles and practices into all Air Force programs. It also establishes a program to ensure compliance with Title 29, Code of Federal Regulations (CFR) 1910.134, *Respiratory Protection* (Industry Standard); 1910.1001, *Asbestos* (Industry Standard); 29 CFR, 1926.1101, *Asbestos* (Construction Standard); 40 CFR Part 763, Subpart E, *Asbestos-Containing Material in Schools*; Title 15 United State Code (USC) Sections 2641–2656, *Asbestos Hazard Emergency Response Act* (AHERA); 40 CFR Part 61, subpart M, *National Emission Standard for Hazardous Air Pollutants, Asbestos* (NESHAP); and Air Force Occupational Health and Safety (AFOSH) Standard 48-137, *Respiratory Protection Program*. For overseas locations, applicable AFOSH standards, Department of Defense (DoD) 4715.05-G, *Overseas Environmental Baseline Guidance Document*, DoDI 6055.1, *DoD Safety and Occupational Health (SOH) Program*, DoDI 6055.05, *Occupational and Environmental Health (OEH)* or country-specific final governing standards (FGS) detail the minimum requirements for asbestos management actions. Privatized utilities and facilities need to refer to contracting or legal transfer documents for more guidance on required asbestos management. Unless otherwise indicated, requirements in this publication are mandatory and apply to all US Air Force organizations and personnel, including US Air Force Reserve Command (AFRC) units, and all Air National Guard (ANG) personnel on duty status, with the exception of state employees. This publication may be supplemented at any level, but all direct supplements must be 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 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).

SUMMARY OF CHANGES

This document has been substantially revised and must be completely reviewed. Major changes include the addition of Tier waiver authority requirements, updated office symbols, and updated references.

Section A—Overview

1. Background. Asbestos is regulated by 15 USC 2601-2697, Toxic Substances Control Act (TSCA); 42 USC 7401-7671q, Clean Air Act (CAA); and regulations issued pursuant to 29 USC 651-678. This instruction focuses on each base's development and implementation of asbestos management programs to reduce possible exposure to airborne asbestos fibers and satisfy regulatory requirements of 29 CFR 1910.1001; 29 CFR 1926.1101; 40 CFR Part 763, subpart E; 15 USC 2641-2656; and 40 CFR Part 61, subpart M. Past and current records addressed in this instruction must be permanently maintained. For more details on referenced regulations and specific Air Force environmental program requirements, contact the Environmental Center of Excellence (AFCEC/CZ) or AFCEC/CFE for Europe or AFCEC/CFP for the Pacific, and the Air Force Legal Operations Agency, Environmental Law and Litigation Division's Environmental Law Field Support Center (AFLOA/JACE-FSC).

Section B—Responsibilities

2. Air Force Director of Civil Engineers (A4C):

- 2.1. Formulates Air Force instructions and implementing guidance for facilities asbestos management.
- 2.2. Directs implementation of applicable public law, safety standards, and Department of Defense (DOD) directives.

3. Air Force Civil Engineer Center - Operations Directorate, Engineer Division (AFCEC/COS):

- 3.1. Develops requirements and provides guidance necessary for base facility asbestos management programs.
- 3.2. Provides operational technical support to the AFCEC/CZ or MAJCOM environmental program manager (for those areas that retain that function, such as ANG and AFRC) overseeing facility asbestos management programs.

4. Air Force Civil Engineer Center - Environmental Directorate (AFCEC/CZ) or MAJCOM Environmental Program Manager (for those areas that retain that function, such as ANG and AFRC):

4.1. Provides oversight and environmental support to ensure facility asbestos management is effective at each base.

5. Base Civil Engineer (BCE):

5.1. Develops a base asbestos management plan (paragraph 7.1) and maintains an inventory of all facilities with known asbestos-containing materials (ACM) and ensures real property records are properly annotated. **(T-0)** ACM is any material containing more than one (1) percent asbestos.

5.2. Develops and implements a comprehensive written asbestos operating plan (paragraph 7.2). **(T-0)**

5.3. Examines ACM in base facilities (any ACM that is non-friable or intact and any ACM that is friable or not intact) and decides whether repair, maintenance, or removal of the material is necessary. **(T-0)** The BCE also determines whether extraordinary precautions are necessary to protect personnel until recommended actions are completed (e.g., frequent monitoring, removal of personnel from the area, temporary controls, or other protective measures). To accomplish these actions, the BCE will work together with the base Bioenvironmental Engineer (BE).

5.4. Decides whether asbestos-related work will be accomplished with in-service resources or by contract.

6. Bioenvironmental Engineer (BE):

6.1. Works directly with the BCE to determine if recommended actions are necessary (e.g., frequent monitoring, removal of personnel from the area, temporary controls, or other protective measures) to protect human health.

6.2. With the BCE, conducts direct evaluation of facilities containing ACM that cannot be reliably maintained, repaired, or isolated and that is likely to become friable or not remain intact. Provides advice to the installation commander regarding health issues associated with "Must remove" mandates.

6.3. Where there is no mandate to remove asbestos, BE will provide advice to the BCE regarding the health risk to facility occupants.

Section C—Program Management

7. Purpose and Scope. Each installation with maintenance responsibility must have a written management plan and operating plan to carry out the objectives of facility asbestos management. **(T-0)** These plans serve two purposes: to detail how tasks are done; and to document the installation's commitment to protect the health of personnel. They may be combined into one document if each section clearly delineates associated requirements. Current and past records created pursuant to this instruction must be permanently maintained. **(T-0)**

7.1. **Asbestos Management Plan.** The objective of the asbestos management plan is to maintain a permanent record of the current status and condition of all ACM in an

installation's facility inventory. The management plan provides the documentation for all asbestos management efforts, and procedures for overseeing the entire facility asbestos management program, including procedures to ensure bases comply with applicable Occupational Safety and Health Administration (OSHA), Environmental Protection Agency (EPA), and state and local regulations. **(T-0)**

7.2. Asbestos Operating Plan. The asbestos operating plan dictates how the base will carry out asbestos-related projects. The plan will assign responsibilities; establish inspection and repair capabilities; and provide repair procedures and personnel protection instructions. The plan will refer to and explain applicable OSHA and EPA rules, AFD 32-70, and AFI 91-202, *The US Air Force Mishap Prevention Program*, with provisions for enforcement. The operating plan addresses **(T-0)**:

- 7.2.1. Organizational structure for carrying out asbestos-related work.
- 7.2.2. Project coordination and communication necessary for construction and renovation work involving facilities containing asbestos.
- 7.2.3. Personnel training programs.
- 7.2.4. Equipment and supply requirements.
- 7.2.5. Identification of worker manuals or other written procedures.
- 7.2.6. Yearly budget estimates.
- 7.2.7. Procedures for interim control measures and extraordinary precautions.
- 7.2.8. Procedures for asbestos certification and asbestos disposition statements on programming documents.
- 7.2.9. Requirements for a special response team and in-house inspection.
- 7.2.10. Requirements for contractor asbestos analysis and abatement.

Section D—Program Requirements

8. Applicable Regulations. 29 CFR 1910.1001; 29 CFR 1926.1101; 40 CFR Part 763, subpart E; 15 USC 2641-2656; and 40 CFR Part 61, subpart M, prescribe requirements for identifying ACM, notifying building occupants of potential asbestos-related hazards, and acquiring specialized asbestos-related training. In addition, they provide specific guidance for asbestos identification, labeling, control, and abatement in schools, government, public, and commercial buildings. Planned asbestos abatement efforts must comply with these and other applicable federal, state, and local regulations prior to commencing work. **(T-0)** Current and past records created pursuant to this instruction must be permanently maintained. **(T-0)**

8.1. Asbestos Abatement. All damaged ACM, either friable or not intact, is presumed hazardous due to its potential to release asbestos fibers into the air. Damaged ACM must be repaired or removed to eliminate this potential hazard. **(T-0)** Bases will abate hazardous ACM through inventory management, isolation, containment, and removal. **(T-0)**

8.2. Asbestos Removal.

- 8.2.1. Bases must remove ACM that cannot be reliably maintained, repaired, or isolated and that is likely to become friable or not remain intact. **(T-0)** "Must remove" mandates

will be issued by the installation commander with advice from BE and the BCE, based on their direct evaluation of the material and the facility. **(T-0)** If asbestos is present at any detectable level (determined by bulk sampling in accordance with 40 CFR Part 763, paragraphs 763.85–87) and is disturbed during maintenance, repair, or removal actions, then the regulatory requirements of 29 CFR 1910.1001 and 29 CFR 1926.1101 apply. **(T-0)**

8.2.2. Where there is no mandate to remove asbestos, the BCE will consult with BE to determine the health risk to facility occupants and will evaluate the material's condition, use of the facility, the feasibility or frequency of repair, and cost-effectiveness when deciding whether to remove or repair non-friable, intact ACM. **(T-1)**

8.2.3. When safety and budgetary considerations permit (e.g., if asbestos is non-friable and intact, encased, appropriately treated, or cost of asbestos removal is less than 10 percent of project cost), include complete removal of ACM when planning operations, maintenance, and military construction program facility projects. **(T-1)**

8.2.4. Remove existing ACM at opportune times during minor construction or repairs (e.g., if wall sections are opened and ACM is exposed, or carpeting is replaced over vinyl asbestos flooring). **(T-1)**

8.2.5. Refer to AFI 32-7042, *Waste Management*, and 40 CFR Part 61, Subpart M, for standards and requirements related to asbestos removal, renovation, and demolition including thresholds for pre-work notification; licensing; site preparation; removal and emission control procedures; and transportation and disposal requirements and limitations.

8.3. **Facility Management.** To ensure ACM does not become airborne, the BCE will closely monitor facilities in accordance with paragraphs 6.3.1 through 6.3.3. **(T-0)**

8.3.1. Conduct asbestos surveys to identify all installed ACM. 29 CFR 1910.1001 requires installed thermal system insulation (TSI) and sprayed-on and troweled-on surfacing materials be classified as Presumed ACM (PACM) in buildings constructed no later than 1980. **(T-0)** Asphalt and vinyl flooring material installed no later than 1980 must also be treated as asbestos-containing. **(T-0)** To verify whether PACM and flooring material contain asbestos, complete an asbestos survey in accordance with 40 CFR Part 763, subpart E (sampling methods are specified in paragraphs 763.85–87). **(T-0)** One commercially available non-regulatory survey method is ASTM E2356-10, *Standard Practice for Comprehensive Building Asbestos Surveys*.

8.3.2. Determine if visibly damaged TSI, existing spray- or trowel-applied surfacing or fireproofing, or miscellaneous ACM is in immediate danger of becoming friable or non-intact, and releasing airborne asbestos fibers; ensure such material is quickly repaired by personnel trained in accordance with 40 CFR Part 763, subpart E, Appendix C. **(T-0)**

8.3.3. Inspect identified ACM and PACM to verify that the material's condition has not changed. Approved methods are specified in 40 CFR Part 763, paragraphs 763.85–87. **(T-0)**

JUDITH A. FEDDER
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Attachment 1**GLOSSARY OF REFERENCES AND SUPPORTING INFORMATION*****References***

- 15 USC 2601-2697, *Toxic Substance Control Act (TSCA)*, 11 October 1976
- 15 USC 2641-2656 *Asbestos Hazard Emergency Response Act (AHERA)*, 7 January 2011 29 USC 651-678, *Occupational Safety and Health Act (OSH Act)*, 29 December 1970
- 42 USC 7401-7671q, *Clean Air Act (CAA)*, 31 December 1970
- 29 CFR 1910.134, *Respiratory Protection (Standard for General Industry)*, 30 June 1993
- 29 CFR 1910.1001, *Asbestos (Standard for General Industry)*, 30 June 1993
- 29 CFR 1926.1101, *Asbestos (Standard for the Construction Industry)*, 30 June 1993
- 40 CFR 61.140-157, subpart M, *National Emission Standard for Hazardous Air Pollutants, Asbestos*, 20 November 1990
- 40 CFR Part 763, subpart E, *Asbestos-Containing Material in Schools*, 30 October 1987 AFPD 32-10, *Installations and Facilities*, 4 March 2010
- AFOOSH Standard 48-137, *Respiratory Protection Program*, 10 February 2005
- AFPD 32-70, *Environmental Quality*, 20 July 1994
- AFI 32-7042, *Waste Management*, 11 April 2014
- AFI 33-360, *Publications and Forms Management*, 25 Sep 2013
- AFI 91-202, *The US Air Force Mishap Prevention Program*, 5 August 2011
- AFMAN 33-363, *Management of Records*, 1 March 2008
- ASTM E2356-10, *Standard Practice for Comprehensive Building Asbestos Surveys*, ASTM International, October 2010, DOI: 10.1520/E2356-10
- DoD 4715.05-G, *Overseas Environmental Baseline Guidance Document*, 1 May 2007
- DoDI 6055.05, *Occupational and Environmental Health (OEH)*, 11 November 2008
- DoDI 6055.1, *DoD Safety and Occupational Health (SOH) Program*, 19 August 1998

Prescribed Forms

None.

Adopted Forms

AF Form 847, *Recommendation for Change to Publication*

Abbreviations and Acronyms

A4C—The Office of the Air Force Civil Engineer

A4CX—The Office of the Air Force Civil Engineer, Readiness and Sustainment Division

ACM—Asbestos-Containing Materials

AFCEC—Air Force Civil Engineer Center

AFCEC/CFE—Air Force Civil Engineer Center, Environmental Center of Excellence, Europe

AFCEC/CFP—Air Force Civil Engineer Center, Environmental Center of Excellence, Pacific

AFCEC/COS—Air Force Civil Engineer Center, Operations Directorate, Engineer

AFCEC/CZ—Air Force Civil Engineer Center, Environmental Center of Excellence

AFI—Air Force Instruction

AFLOA/JACE—FSC—Air Force Legal Operations Agency, Environmental Law and Litigation Division's Environmental Law Field Support Center

AFMAN—Air Force Manual

AFPD—Air Force Policy Directive

AHERA—Asbestos Hazard Emergency Response Act

ASTM—American Society for Testing and Materials (now “ASTM International”)

BCE—Base Civil Engineer

BE—Bioenvironmental Engineer

CAA—Clean Air Act

CFR—Code of Federal Regulations

DCS—Deputy Chief of Staff

DoD—Department of Defense

EPA—Environmental Protection Agency

FGS—final governing standard

MAJCOM—Major Command

NESHAP—National Emission Standard for Hazardous Air Pollutants, Asbestos

OSH—Occupational Safety and Health (Act)

OSHA—Occupational Safety and Health Administration

PACM—Presumed Asbestos Containing Material

RDS—Records Disposition Schedule

TSCA—Toxic Substances Control Act

TSI—Thermal System Insulation

USC—United States Code