



## DoD MANUAL 4150.07, VOLUME 1

# DoD PEST MANAGEMENT PROGRAM ELEMENTS AND IMPLEMENTATION: STRUCTURE AND OPERATION

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<b>Approved by:</b>	Robert H. McMahon, Assistant Secretary of Defense for Sustainment

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**Purpose:** This manual is composed of two volumes, each containing its own purpose. In accordance with the authority in DoD Directives 5134.01 and 5134.15, the April 10, 2015 and July 13, 2018 Deputy Secretary of Defense Memorandums, and DoD Instruction (DoDI) 4150.07:

- This manual implements policy, assigns responsibilities, and provides procedures for the design and operation of the DoD Pest Management Program.
- This volume assigns responsibilities and provides procedures to develop and implement a comprehensive DoD Pest Management Program.

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## **SECTION 1: GENERAL ISSUANCE INFORMATION**

### **1.1. APPLICABILITY.**

a. Applies to:

(1) OSD, the Military Departments, the Office of the Chairman of the Joint Chiefs of Staff and the Joint Staff, the Combatant Commands, the Office of the Inspector General of the Department of Defense, the Defense Agencies, the DoD Field Activities, and all other organizational entities within the DoD (referred to collectively in this issuance as the “DoD Components”).

(2) All DoD installations, operations, and activities worldwide, subject to applicable international agreements, and in accordance with final governing standards (FGSs) or, where no such FGSs have been issued, the criteria in DoDIs 4715.05 and 4715.22. This includes non-appropriated fund activities.

(3) Activities performed on a DoD installation under contract, subject to terms included in the contract.

b. Does not apply to:

(1) Civil works activities of the U.S. Army Corps of Engineers.

(2) Army and Air National Guard installations that are State-owned.

(3) Facilities occupied by a DoD Component when real property is not under DoD control (e.g., General Services Administration-leased space).

(4) Privatized housing, where the DoD installation does not retain oversight or responsibility. Such housing must still comply with federal, State, and local laws and regulations.

### **1.2. POLICY.**

In accordance with DoDI 4150.07, the DoD:

a. Uses integrated pest management (IPM) to prevent or control pests and disease vectors that may degrade readiness or military operations by affecting the health of personnel or that may damage structures, materiel, or property.

b. Complies with all Executive orders (E.Os.) and federal statutory and regulatory requirements that apply to IPM. Although federal agencies are not required to comply with State and local laws relating to pesticides and pest management, the DoD voluntarily meets the substantive portions of State pesticide and pest management laws and regulations when meeting those standards does not degrade DoD missions. In accordance with status of forces agreements,

DoD respects host nation (HN) laws, but does not comply with them; it complies with the FGS or, where no such FGSs have been issued, the criteria in DoDIs 4715.05 and 4715.22. The FGS is the mechanism used by the DoD to respect HN environmental laws.

c. Uses Armed Forces Pest Management Board (AFPMB)-approved, Environmental Protection Agency (EPA)-registered pesticides applied by trained and certified pesticide applicators.

### **1.3. INFORMATION COLLECTIONS.**

DD Form 1532, "Pest Management Report," referred to in Paragraphs 4.5.a., 4.5.b., and 5.8.d., has been assigned Office of Management and Budget control number 0704-0188 and does not require licensing with a report control symbol in accordance with Paragraph 1.b.(5)(13) of Enclosure 3 in Volume 1 of DoD Manual 8910.01.

## **SECTION 2: RESPONSIBILITIES**

### **2.1. UNDER SECRETARY OF DEFENSE FOR ACQUISITION AND SUSTAINMENT (USD(A&S)).**

In accordance with DoD Directive 4715.1E and the July 13, 2018 Deputy Secretary of Defense Memorandum, the USD(A&S) will provide direction and supervision to the AFPMB.

### **2.2. ASSISTANT SECRETARY OF DEFENSE FOR SUSTAINMENT (ASD(S)).**

Under the authority, direction, and control of the USD(A&S), the ASD(S) will develop policy and oversee the implementation and management of the DoD Pest Management Program.

### **2.3. DEPUTY ASSISTANT SECRETARY OF DEFENSE FOR ENVIRONMENT (DASD(ENV)).**

Under the authority, direction, and control of the ASD(S), the DASD(ENV) will:

- a. Oversee the implementation of this volume.
- b. Support the USD(A&S) in direction and supervision of operations of the AFPMB.
- c. Recommend policy, provide subject matter expertise, and enhance coordination among the DoD Components on all matters related to pest management and disease vector control.
- d. Serve as the coordinating office for the DoD Undesirable Plant Management Program pursuant to Section 2814 of Title 7, United States Code (U.S.C.).
- e. Acting through the Director, AFPMB, monitor compliance with this volume.

### **2.4. DOD COMPONENT HEADS.**

The DoD Component heads will:

- a. Implement policies, procedures, standards, and requirements within their component as specified in this volume.
- b. Incorporate IPM practices and techniques in all pest management and disease vector-control programs, plans, operations, regulations, publications, pest control contracts, and training programs for integrated pest management coordinators (IPMCs), pesticide applicators, contract inspectors, and military personnel who apply pesticides as outlined in this volume.
- c. Plan, program, and budget for pest management programs to protect the health of military personnel, civilians, and family members; meet environmental compliance requirements; protect real property, natural resources, and military materiel from damage caused by insects,

undesirable plants, and other pests; and promote training and mission readiness with minimum risk of damaging the environment.

## **2.5. COMBATANT COMMANDERS.**

In addition to the responsibilities in Paragraph 2.4., the Combatant Commanders will:

- a. Oversee implementation of this volume within their respective areas of responsibility.
- b. Carry out appropriate pest management responsibilities in accordance with this volume, including:
  - (1) Planning, programming, and budgeting for contingency pest management programs.
  - (2) Developing location-specific IPM practices and techniques.

## SECTION 3: DOD IPM PLAN DESIGN

### 3.1. BACKGROUND.

DoD installations must have an IPM plan. The plan must list pest management program objectives according to potential or actual impact on mission and readiness. A pest management consultant (PMC) is permitted to recommend a DoD installation plan be included within the scope of another location or a larger command's IPM plan. A PMC reviews plans for technical sufficiency before plan approval by the responsible commander. IPMCs oversee compliance with the plan.

### 3.2. ROLES.

An IPM plan is developed, implemented, and maintained by leadership and pest management personnel listed in Table 1.

**Table 1. Pest Management Program Personnel Responsibilities**

Role	Responsibilities
<b>DoD Installation Commanders</b>	
IPM Plan	<ul style="list-style-type: none"> <li>• Plan, program, and budget for IPM plan initial development and 5-year revision. The plan must comply with:               <ul style="list-style-type: none"> <li>• Guidelines in Section 4321 <i>et seq.</i> of Title 42, U.S.C., also known and referred to in this volume as the “National Environmental Policy Act of 1969,” as amended.</li> <li>• Parts 1500 through 1508 of Title 40, Code of Federal Regulations (CFR).</li> <li>• Goals and objectives in HN FGSs and DoDIs 4715.03 and 4715.16.</li> </ul> </li> <li>• Designate an IPMC, in writing, to oversee the DoD installation covered by the IPM plan.</li> <li>• Direct the IPMC to forward the IPM plan to the designated PMC for review and technical approval. The IPMC and PMC review and technically approve plans in writing annually.</li> <li>• Approve the IPM plan.</li> <li>• Implement approved IPM plans using trained personnel and certified pesticide applicators.</li> <li>• Establish pest management self-help programs when cost effective.</li> </ul>
Pesticides	<ul style="list-style-type: none"> <li>• Require pesticides only be applied on DoD installations by DoD-trained and certified personnel, or by State- or HN-certified contract applicators with equivalent DoD categories.               <ul style="list-style-type: none"> <li>• Certification is not required to apply pesticides approved for personnel supporting operations or deployments, if they have received special training for limited site application of pre-selected pesticides, including aircraft disinsectization or during self-help programs.</li> </ul> </li> <li>• Ensure that pesticide applications are recorded and permanently archived, pursuant to Section 136i of Title 7, U.S.C., also known and referred to in this issuance as the “Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA),” as amended, and comply with requirements outlined in DoDI 5015.02 and guidance provided by the Director, AFPMB.</li> </ul>



**Table 1. Pest Management Program Personnel Responsibilities, Continued**

<b>Role</b>	<b>Responsibilities</b>
	<ul style="list-style-type: none"> <li>Institute procedures to prevent terrorists from acquiring DoD pesticide dispersal equipment or pesticides.</li> </ul>
Contracts	Use pest management contracts when they are more cost effective than in-house services. Follow the DoD Component heads' guidance when using government purchase cards (GPCs) instead of formal proposals to procure limited pest control services.
<b>DoD Installation Pest Management Personnel</b>	
Training	Obtain necessary training and certification in accordance with Volume 2 of this manual.
Logistics	Procure pesticides documented in the pest management plan, in compliance with applicable federal and DoD requirements, from the Federal Supply System (FSS) or commercial sources that are PMC approved.
Records	Record all pest management operations and pesticide use performed at a location, with the exception of insect repellent use by installation personnel for their own relief. Records must comply with DoDI 5015.02 and follow guidance provided by the Director, AFPMB.
<b>Army, Navy, and Air Force (43H3E) Public Health or Preventive Medicine Personnel</b>	
Training	Obtain Service-specific training and, as required, certification in accordance with Volume 2 of this manual.
Consultation and Communication	<ul style="list-style-type: none"> <li>Provide guidance, recommendations, and on-site assistance on technical matters related to disease vectors and other medically important pests.</li> <li>Provide specialized, area-wide operational pest management services, including developing emergency disease vector-control plans, contingency response, medical entomology information, risk assessments, and control.</li> <li>Provide guidance on the use of personal protective equipment to pesticide applicators and medical surveillance program managers.</li> <li>Conduct area inspections and surveys, including sanitation surveys, to determine the species, source, and location of medically important pests.</li> <li>Consult with public works and facilities department representatives to develop appropriate response plans.</li> <li>Evaluate the effectiveness of control measures; communicate surveillance data to the pesticide applicators; and coordinate with responsible civilian and government agencies for disease vector issues and oversee compliance with appropriate public health and quarantine measures.</li> </ul>

### 3.3. CONTENT.

The IPM plan:

a. Will be surveillance-based and location-specific to include environmental concerns, such as water bodies, threatened and endangered species, undesirable plants, invasive species, and any atypical pest management requirements and management protocols.

b. Includes a list of certified pesticide applicators, including name, certification number, and certification expiration date.

- c. Includes a list of PMC-reviewed pest management contracts.
- d. Describes personnel roles and responsibilities and provides contact information for those involved in pest management operations as described in Table 1.
- e. Includes a PMC-approved pesticide list with EPA (or HN equivalent) registration numbers.
- f. Describes health and safety measures taken to protect pesticide applicators and personnel from pesticide exposure, including posting and notification.
- g. Identifies disease vectors and describes surveillance and control efforts and any stakeholder collaborations with other federal agencies, State, tribal, and local governments, and HNs.
- h. Includes golf courses, other recreational areas, and tenant command pest management operations, where applicable.
- i. Mandates the use of surveillance and control protocols, when available, that are approved by the AFPMB Council.
- j. Describes pest management activities that require coordination with appropriate location offices, including natural and cultural resources.

### **3.4. FORMAT.**

The IPM plan must address the elements in Table 2.

**Table 2: IPM Plan Elements**

<b>Element</b>	<b>Description</b>
Cover and Signature Pages	<ol style="list-style-type: none"> <li>1. Title</li> <li>2. Installation name or unit identification code</li> <li>3. Approval and technical review               <ol style="list-style-type: none"> <li>A. Signatures from:                   <ol style="list-style-type: none"> <li>(1) IPMC</li> <li>(2) Installation environmental coordinator, engineer, or equivalent</li> <li>(3) Fire department supervisor</li> <li>(4) Natural resources program manager</li> <li>(5) Cultural resource program manager</li> <li>(6) Public health or preventive medicine representative</li> <li>(7) PMC</li> <li>(8) Installation contracting officer (where some or all aspects of pest control work are done by contract)</li> <li>(9) Installation commander</li> </ol> </li> <li>B. Dates of last annual review</li> </ol> </li> </ol>
Executive Summary	Overview of the installation mission, general information about the pest management program, and specific focus areas
Responsibilities and Contact Information	<ol style="list-style-type: none"> <li>1. Commander or commander's representative</li> <li>2. IPMC</li> <li>3. Installation environmental coordinator, engineer, or equivalent</li> <li>4. Public health or preventive medicine representative</li> <li>5. PMC</li> <li>6. Natural resources program manager</li> <li>7. Cultural resources program manager</li> <li>8. Installation contracting officer</li> </ol>
Sensitive Areas	<ol style="list-style-type: none"> <li>1. Child development centers</li> <li>2. Schools</li> <li>3. Hospitals and other care facilities</li> <li>4. Food service facilities</li> </ol>
Health and Safety	<ol style="list-style-type: none"> <li>1. Medical surveillance of pest management personnel</li> <li>2. Hazard communication</li> <li>3. Personnel protective equipment</li> <li>4. Fire protection services</li> <li>5. Pest management vehicle(s)</li> <li>6. Protection of the public</li> <li>7. Pesticide shop health, safety, and hazard surveys (including air sampling and ventilation systems)</li> <li>8. Pesticide spills</li> </ol>
Environmental Considerations	<ol style="list-style-type: none"> <li>1. Sensitive areas</li> <li>2. Threatened and endangered species</li> <li>3. Reference integrated cultural resource management plan and integrated natural resources management plan</li> </ol>
Program Administration	<ol style="list-style-type: none"> <li>1. Interservice support agreements</li> <li>2. Coordination (DoD, other federal, State, and local)</li> </ol>
IPM References and Links	List references cited within the plan. Provide internet links to documents when possible.

**Table 2. IPM Plan Elements, Continued**

<b>Element</b>	<b>Description</b>
Annexes	<ol style="list-style-type: none"><li>1. List of approved contracts</li><li>2. List of certified pesticide applicators (certification number and expiration date)</li><li>3. Certificates of training or competency</li><li>4. PMC-approved pesticide list with EPA or HN registration numbers, target pests, and application sites</li></ol>

## **SECTION 4: DOD PEST MANAGEMENT PROGRAM ADMINISTRATION**

### **4.1. DOD INSTALLATION CONSULTATIVE SUPPORT, PEST MANAGEMENT PROGRAM REVIEWS, AND AUDITS.**

- a. The PMC is responsible for conducting an annual IPM plan review and triennial on-site program review. Environmental compliance programs may be submitted for internal or external review. A PMC must be certified in DoD Category 11, Aerial Application of Pesticides, to review and approve aerial pesticide application on DoD installations. For detailed information about Category 11 certification, see Paragraph 5B.2.g. in Volume 2 of this manual.
- b. PMCs are available, on request, to provide technical assistance for the pesticide portion of environmental audits, provide follow-up assistance to audits, or further evaluate audit findings.
- c. IPMCs are responsible for DoD installation pest management program oversight.
- d. DoD installation personnel must notify the appropriate PMC when federal, State, or local regulators ask to observe pest management operations.

### **4.2. TRAINING AND CERTIFICATION OF PEST MANAGEMENT PERSONNEL.**

- a. All DoD pesticide applicators and their supervisors must be trained and certified within 2 years of employment in accordance with Volume 2 of this manual.
- b. Pest management professionals must be currently certified in the appropriate pesticide applicator categories, if they:
  - (1) Work as a PMC responsible for making pesticide use recommendations and reviewing proposed pesticide use.
  - (2) Approve aerial pesticide application on DoD property.
  - (3) Apply pesticides or directly supervise pesticide application.
- c. DoD installation IPM plans will include provisions to ensure that certified pesticide applicators comply with standards for the use of pesticides and carry out their responsibility to provide adequate supervision of non-certified applicators who are in training. Such plans will also specify pest control program standards and will be reviewed and technically approved by the IPMC and responsible PMC annually.
  - (1) All pesticide applications and other pest management functions are periodically reviewed for compliance with the installation's IPM plan.
  - (2) Use of DoD-certified pesticide applicators (or State-certified or HN pesticide applicators, in the case of contract operations) is a mandatory requirement for each DoD installation. The exceptions are use of repellents for personal protection and self-help programs,

and for DoD personnel performing aircraft disinsection while in areas with no available DoD-certified applicators.

d. Contractor employees performing pest management work on a DoD installation within the United States must be certified in the State where the work will be performed before the work commences. The contractor must provide evidence of certification to satisfy the performance requirements for the particular pest management function being contracted. Non-certified or apprentice contracted applicators, or those in upgrade training, must not apply pesticides on DoD installations.

e. Contractor pesticide applicators who apply pesticides on a DoD installation outside of the United States must hold a valid U.S. State Commercial Pesticide Applicator Certificate, an HN applicator's license, or a DoD pesticide applicator certification. Certification training outside of the United States is approved by the designated area PMC. Specific certification procedures are described in Paragraph 4.4. of Volume 2 of this manual.

f. Contractor pesticide applicators who apply pesticides in contingency locations must obtain certification if required by the FGS, hold a valid U.S. State Pesticide Applicator Certificate, and apply pesticides within the limits of that certificate or receive DoD certification training for areas outside of the United States. The AFPMB contingency liaison officer, in collaboration with the responsible Combatant Command senior PMC and lead DoD Component PMC or base operating systems integrator to that area, is responsible for determining training requirements as described in Paragraph 4.5. of Volume 2 of this manual.

g. Pest management quality assurance evaluators (PMQAEs) or pest management performance assessment representatives (PMPARs) monitor and evaluate contractor performance of pest management services. DoD-certified pesticide applicators may be available to assist the PMQAEs or PMPARs. If a DoD installation pest management contract efforts are less than 3 months, the presence of a trained PMQAE or PMPAR is recommended, but not mandatory.

h. DoD personnel and family members who apply non-restricted use pesticides under DoD installation self-help programs or use insect repellents for their own relief are exempted from the certification requirement under these circumstances.

### **4.3. PEST MANAGEMENT MATERIEL AND PESTICIDE ACQUISITION.**

a. The AFPMB approves all pest management materiel that is assigned a National Stock Number (NSN) and listed in the FSS for DoD procurement.

(1) Requests for pest management materiel to be assigned an NSN must be submitted to the AFPMB through an appropriate DoD Component representative.

(2) New or existing FSS product performance is evaluated against established DoD technical standards. If required, additional product testing and evaluation is coordinated through the AFPMB.

(3) The AFPMB forwards approved addition, deletion, or modification requests for pest management materiel in the FSS to the Defense Logistics Agency (DLA) for action. NSNs are assigned to AFPMB-approved pest management materiel for DoD and other federal agency requirements.

b. After receiving PMC approval, authorities may locally procure pest management materiel that complies with applicable federal, State, local, and HN requirements if that procurement is in response to an emergency or a unique local situation, or when the materiel is to be used in such small quantities that NSN assignment is not feasible.

(1) All pest management materiel used on a DoD installation must be annotated in the pest management plan.

(2) The DoD Components will annually provide a list of PMC-approved pesticides to the AFPMB. The AFPMB monitors the use of locally procured pest management pesticides and may request an NSN be assigned to frequently used items.

c. Non-EPA-registered pesticides will not be used in contingency locations without prior written approval of the Director, AFPMB. Requests for approval will include use justification, product label (in English or translated to English), active ingredients, manufacture location, safety data sheet (if available), and country-specific registration (if available). Guidance on contingency pest management is provided in AFPMB Technical Guide (TG) 24.

#### **4.4. PESTICIDE STORAGE, HANDLING, AND DISPOSAL.**

##### **a. Pesticide Storage Facilities.**

The design of pesticide storage facilities must comply with standards described in AFPMB TG 17. Existing facilities must comply with all applicable regulatory standards and must, where feasible, be modified to meet the minimum standards for new pesticide storage facilities.

##### **b. Pesticide Handling.**

DoD personnel must handle and apply pesticides in accordance with the product's label. Additional guidance on personal protective equipment and spill prevention and management is provided in AFPMB TGs 14 and 15.

##### **c. Pesticide Disposal.**

The IPMC manages the disposal of excess EPA-registered pesticides in accordance with DoD, federal, and State regulations and DoD Component guidance. PMCs provide assistance in identifying DoD installations where serviceable excess pesticides can be used. The DoD Components should follow the pesticide disposal guidance in AFPMB TG 21.

#### **4.5. REPORTS AND RECORDS.**

a. All DoD installations will maintain complete records of daily pesticide applications, inspections, and non-chemical pest management operations. These records must provide a historical record of pest management operations, including surveillance and, as required, pesticide applications for each building, structure, or outdoor site. Records must be in compliance with DoDI 5015.02 and the guidance issued by the Director, AFPMB. DD Form 1532, "Pest Management Report," and DD Form 3044, "Pre-embarkation Certificate of Disinsection," both available at <https://www.esd.whs.mil/directives/forms/>, are used to collect and report pest management activities and pesticide use.

b. All pesticide applications performed during military operations and deployments, except skin and clothing arthropod repellents, must be recorded and permanently archived. Records must be in compliance with DoDI 5015.02 and the guidance issued by the Director, AFPMB. DD Forms 1532 and 3044 are used to collect and report pest management activities and pesticide use.

c. Records must include pest control work:

- (1) Performed anywhere on the DoD installation by pest management personnel.
- (2) That is formally contracted.
- (3) Performed by GPC-procured pesticide applicators.
- (4) Performed by researchers.

(5) Involving non-appropriated fund activities as part of out-leases, land-management, or forestry programs.

d. Records must include:

- (1) Date of application or service.
- (2) Application site.
- (3) Target pest.
- (4) Pesticide used and its EPA registration number and active ingredient.
- (5) Amount of pesticide concentrate used for mixing.
- (6) Final concentration applied.
- (7) Applicator name and certification number.
- (8) Any additional information approved by the AFPMB Council.



e. PMCs must use the data provided to evaluate the efficiency of the overall DoD installation pest management program and pest management operations.

f. Repellents applied by DoD installation personnel for their own relief are excluded from the recordkeeping requirement.

#### **4.6. CONTRACTING FOR COMMERCIAL PEST MANAGEMENT SERVICES.**

##### **a. Contracting.**

The DoD may use pest management contracts when more cost-effective or advantageous for non-routine, large-scale, or emergency services, especially if specialized equipment or expertise is needed.

(1) Contractors will be certified in the State or territory where the work is performed, comply with all State regulatory requirements, and apply pesticides within the limits of that certificate. This requirement applies even if the State permits uncertified pesticide applicators to work under the supervision of a certified person on non-DoD property.

(2) Contracts with non-U.S. vendors or U.S. vendors performing work outside of the United States must require the contractor to comply with all IPM plan requirements, applicable international agreements, FGSs or, where no such FGSs have been issued, the criteria described in DoDI 4715.05.

##### **b. Review and Approval.**

PMCs will review pest management contracts, including augmentation contracts, for technical compliance, to verify that appropriate IPM and pest management standards are specified before granting the award. DoD installations that lack expertise in pest management are encouraged to request assistance from a DoD Component PMC to develop the technical portions of pest management contracts in accordance with AFPMB TG 39. PMCs can act as technical consultants when contracted work is performed.

##### **c. GPC-Procured Pesticide Materiel.**

Pest management personnel, including contractors, must report all GPC-procured pesticide materiel and services to the IPMC for inclusion in the monthly pest control report and other documentation. Pesticides used by pest management personnel must be approved by the IPMC before purchase and use.

##### **d. Quality Assurance for Pest Management Contracts.**

PMQAEs or PMPARs who evaluate pest management service contractor performance and inspect the performance of contractor-provided pest management services must receive the training described in Paragraph 3.4. of Volume 2 of this manual.

#### **4.7. PESTICIDES AND APPLICATOR CERTIFICATION.**

The DoD uses AFPMB-approved, EPA-registered pesticides applied by trained and certified pesticide applicators. The following exceptions apply:

- a. Certification is not required:
  - (1) To apply pesticides approved for and used as part of self-help programs.
  - (2) For limited, site-specific application of pre-selected pesticides by trained military personnel supporting operations and deployments.
- b. After receiving PMC approval, authorities may locally procure pest management materiel that complies with applicable federal, State, local, and HN requirements if that procurement is in response to an emergency or a unique local situation, or when the materiel is to be used in such small quantities that NSN assignment is not feasible.
- c. Pesticides not requiring FIFRA registration as identified in Section 152.25 of Title 40, CFR.
- d. The AFPMB does not review or approve antimicrobials including sanitizers, disinfectants, germicides, and sterilants.

## **SECTION 5: SPECIFIC PEST MANAGEMENT OPERATIONS**

### **5.1. AERIAL APPLICATION OF PESTICIDES.**

a. Aerial application projects must be in accordance with DoD and DoD Component environmental requirements including applicable National Environmental Policy Act of 1969 documentation.

b. All aerial application projects must be validated and pre-approved by a PMC or pest management professional certified in Category 11 with aerial application experience (see Paragraph 5B.2.g. in Volume 2 of this manual for detailed information about Category 11 certification). All aerial spray operations using the 910th Airlift Wing assets must receive prior approval in accordance with Air Force Instruction 32-1074. IPMCs should review and update project documentation, including the environmental assessment following each operation.

c. Aerial applicators should use proper timing and the best available aerial spray technologies to minimize impacts on non-target organisms and other adverse environmental impacts.

**5.2. AIRCRAFT DISINSECTION.** DoD personnel must disinsect government-owned aircraft for disease vectors and agricultural pests if:

a. Required by a foreign nation as a prerequisite to entry in accordance with the DoD Foreign Clearance Guide.

b. Mandated by the U.S. Department of Health and Human Services or the U.S. Department of Agriculture (USDA).

c. Directed by a command-level or higher authority that has determined the point of embarkation has active vector-borne disease transmission.

### **5.3. FOREST PESTS.**

In accordance with the November 1996 Memorandum of Agreement between the DoD and USDA, the DoD Components must cooperate with the U.S. Forest Service on applicable pest management programs, including annual USDA funding for forest insect and disease suppression projects on DoD-controlled land.

### **5.4. INVASIVE SPECIES MANAGEMENT.**

In accordance with E.O. 13751, the DoD Components will prevent the introduction of invasive species, provide for their control, and minimize their economic, ecological, and human health impacts. Unless directed otherwise by the Secretary of Defense, the DoD Components, subject to the availability of appropriations and to the extent possible and permitted by law, will not

authorize, fund, or carry out management actions that are likely to cause the introduction, establishment, or spread of invasive species. In addition, the DoD Components will:

a. Implement programs that comply with FIFRA and are consistent with DoDI 4715.03 and DoD installation equivalent of integrated natural resources management plans, integrated cultural resources management plans, and to the extent practicable, the current National Invasive Species Council Management Plan.

b. Employ early detection and rapid response procedures to eradicate or control populations of newly introduced invasive species that are cost effective, minimize mission impact, and minimize human, animal, plant, and environmental health risks.

c. Monitor invasive species populations accurately and reliably.

d. Provide for the restoration of native species and their ecosystems that have been degraded by invasive species.

e. Conduct or advocate for research on invasive species, and develop and apply technologies to prevent their introduction, establishment, and spread by using the latest IPM techniques for their control.

f. Promote public education and action on invasive species, their pathways, and ways to address them, with an emphasis on prevention, early detection, and rapid response.

g. Coordinate with and complement similar efforts of other federal agencies, States, territories, federally recognized Indian tribes, local governments, non-governmental organizations, and the private sector.

h. In coordination with the Department of State and other agencies, as appropriate, coordinate with foreign nations to prevent the movement and minimize the impacts of invasive species.

i. Refrain from authorizing, funding, or implementing actions that are likely to cause or promote the introduction, exportation, establishment, or spread of invasive species.

j. Expand the use of new and existing IPM technologies and practices for surveillance and control of invasive species.

## **5.5. UNDESIRABLE PLANTS.**

The DoD Components will develop noxious weed management programs in accordance with Section 2814 of Title 7, U.S.C. Each DoD Component must:

a. Designate an office or person proficient in undesirable plant management to develop and coordinate the component's undesirable plant management program.

b. Develop and implement cooperative agreements with State agencies, as appropriate, regarding the management of undesirable plant species on DoD lands under the component's jurisdiction.

c. Establish integrated management systems to control or contain undesirable plant species targeted under cooperative agreements authorized by Section 2814 of Title 7, U.S.C. Pursuant to Section 2814(d) of Title 7, U.S.C., DoD Components are not required to perform work on DoD installations unless similar programs are being implemented on State or private lands in the vicinity of the DoD installation.

## **5.6. MEDICALLY IMPORTANT PESTS.**

DoD installation pest management and operational plans must define responsibilities for the surveillance and control of medically important pests, including insects and other arthropods.

## **5.7. NUISANCE PESTS.**

DoD installation commanders must implement measures to prevent unacceptable damage by nuisance pests to infrastructure, materiel, and natural resources.

## **5.8. PEST MANAGEMENT AND DISEASE VECTOR CONTROL IN CONTINGENCY OPERATIONS.**

a. All military and contract personnel conducting pest management and disease vector-control activities during contingency operations, readiness training exercises, and deployments must conduct operations consistent with the policies and procedures in this volume and the guidance in AFPMB TGs 3 and 24.

b. Individuals who apply pesticides during contingency operations, readiness training exercises, and deployments must be certified or under the direct supervision of certified individuals. Contractors must be certified before starting work.

c. Shipboard Independent Duty Corpsmen and other military personnel supporting contingency operations or deployments are exempt from this certification requirement if they received special training for limited site application of pre-selected pesticides and confine their pest management actions to those limited sites and pre-selected pesticides. These individuals must be fully trained, including hands-on training for these specific applications. Successful completion will be documented by a certificate or letter provided to the individual and recorded by schoolhouse or unit training officers. The Military Services must develop situation-specific training programs for these individuals. At a minimum, the training must include safe pesticide use and proper application techniques specific for the sites where these individuals will work.

d. All military, civilian, and contract personnel conducting pest management and disease vector-control activities must record and permanently archive all pesticide applications, except skin and clothing, during all contingency operations and deployments in accordance with DoDIs

4715.22 and 5015.02 and the guidance published by the Director, AFPMB. DD Forms 1532 and 3044 are used to collect and report pest management activities and pesticide use.

## **5.9. PEST MANAGEMENT IN MILITARY QUARTERS AND HOUSING.**

Residents of military quarters and housing are responsible for practicing good sanitation and correcting minor nuisance pest problems.

### **a. DoD Installation Role.**

Pest management services will be provided in military housing as described in the pest management plan. Pest management measures used in privatized housing must comply with applicable State and local laws and regulations.

### **b. Self-help Program.**

(1) The DoD Components must establish DoD installation self-help pest management programs for military housing when:

(a) Cost effective.

(b) These facilities are not part of privatized housing.

(2) The senior PMC may recommend issuing self-help materiel, including cockroach and ant baits or traps, mousetraps, glue boards, and ready-to-use non-restricted use pesticides. The DoD installation self-help program manager should coordinate pest management materiel procurement and storage with the DoD installation pest management shop, hazardous material manager, and DLA Supply Center.

(3) The self-help program manager will provide written instructions and appropriate precautions to military housing residents and building managers. AFPMB TG 42 provides self-help pest management program information.

(4) In coordination with the housing supervisor or manager, or independently when no such position exists, the IPMC will maintain records of issued pesticides. These records will allow DoD installation self-help personnel to validate the occupants' attempts to control target pests before providing pest management services. PMCs must review the efficiency and effectiveness of the installation's self-help program during annual pest management program reviews.

(5) PMCs may develop non-housing, self-help programs as documented in IPM plans (e.g., programs may be developed for small, detached facilities or for shop personnel at large facilities where frequent pest problems interfere with operations). These self-help programs will focus on ready-to-use, low-toxicity pesticides selected by the PMC, and include training, proper storage, materiel accountability, and reporting. The PMC documents these programs in the pest management plan.

- (6) Certification is not required to apply self-help program pesticides.

## **5.10. PEST MANAGEMENT IN SENSITIVE AREAS.**

### **a. Pesticide Applications in the Range of Threatened and Endangered Species.**

(1) The DoD Components will comply with Sections 1531 through 1544 of Title 16, U.S.C., also known as the “Endangered Species Act of 1973,” as amended, and other regulatory conservation measures during implementation of the IPM plan and associated pest management activities.

(2) The IPMC will identify affected areas and coordinate the IPM plan for any pesticide applications (e.g., mosquito control, forestry, right-of-way, aquatic, aerial) likely to affect threatened and endangered species and associated critical habitat with installation natural resources managers and other appropriate stakeholders. Consultation with the U.S. Fish and Wildlife Service or National Marine Fisheries Service may be required during IPM plan development and before certain pesticide applications. If consultation is required, action will be completed before implementing the proposed pesticide application.

(3) Components will comply with pesticide label restrictions and regional EPA Endangered Species Protection Bulletins, designed to protect listed species (e.g., regarding application of pesticides adjacent to aquatic habitats).

(4) Enduring locations outside of the United States will comply with applicable international agreements, FGSs issued for the HNs or, where no such FGSs are issued, the guidance in DoDI 4715.05.

### **b. Cultural Resources.**

Historic properties or cultural sites that may require specific or specialized pest management methods must be identified in pest management plans, in accordance with DoDI 4715.16, to determine limitations on pesticide application.

## **5.11. NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) PESTICIDE PERMITS.**

An NPDES permit is required for pesticide applications that directly or indirectly impact U.S. waters. A permit may be issued from the EPA or State, depending on application location. Guidance may be obtained from the EPA NPDES pesticide permitting website at <https://www.epa.gov/npdes/pesticide-permitting> and the DoD Component PMC.

## **5.12. QUARANTINABLE PESTS.**

The DoD Components prevent the inter- and intra-theater and interstate transport of invasive species and quarantinable or other non-native organisms and pests in the movement of DoD-

sponsored cargo, personal property, and accompanied baggage. The IPM plan must include guidance for the implementation of all applicable federal regulations (e.g., Part 301 of Title 7, CFR) that prevent the interstate movement of quarantinable pests, such as gypsy moths and Japanese beetles.

- a. For operations outside of the United States, agricultural cleaning and inspection requirements and pre-clearance program guidance is found in Part V of Defense Transportation Regulation 4500.9-R.
- b. Additional country-specific requirements for agricultural and medical pests are found in the DoD Foreign Clearance Guide.
- c. Guidance for equipment preparation for re-deployment is found in AFPMB TG 31.

### **5.13. STORED PRODUCT PESTS.**

Measures used to minimize insect and vertebrate pest damage to subsistence, clothing and textiles, medication, and other infestible stored materiel should be implemented. Pest management program design and implementation information can be found in AFPMB TGs 11, 27, and 38 and DLA Troop Support Instruction 4145.31.

### **5.14. TURF AND ORNAMENTAL PESTS.**

DoD installation commanders should implement measures to prevent unacceptable damage to shade trees, ornamental plantings, and turf by insects, diseases, and weeds.

### **5.15. VERTEBRATE PESTS.**

The DoD Components will:

- a. Manage vertebrate pests in accordance with the May 1990 Memorandum of Agreement between the DoD, the USDA, and the Animal and Plant Health Inspection Service:
- b. Implement vertebrate pest management programs, including wildlife aircraft strike hazard reduction and regulatory driven species management or landscape recovery programs, to prevent vertebrate pest interference with operations, destruction of real property, and adverse impacts on health and morale.
- c. Cooperate with federal, State, and local agencies that have implemented animal damage control programs on adjacent public and private lands.
- d. Identify potential secondary and non-target effects to other organisms and design programs to preclude or minimize the risks.
- e. Obtain all required permits.



f. Prohibit dogs, cats, and other privately owned or stray animals from running at large on DoD installations. Hunting dogs in designated areas are exempt.

g. Comply with DoDI 4715.03 regarding dog and cat trap, neuter, vaccinate, and release programs on DoD installations.

(1) Guidance for managing feral animal problems at contingency locations is found in AFPMB TG 3.

(2) Guidance for managing stray animal problems on DoD installations is found in AFPMB TG 37.

h. Promote coordination between IPMCs and natural resources managers to define responsibilities involving vertebrate pests. Natural resources managers will provide technical oversight of vertebrate pest management practices that affect the natural resources program to ensure alignment with mission requirements, natural resources laws and regulatory opinions, and compliance with international and status-of-forces agreements, FGSs, and theater guidance.

#### **5.16. WEED CONTROL.**

Undesirable plant control on DoD installations is performed by appropriately certified pest management personnel in accordance with Section 2814 of Title 7, U.S.C. Herbicides will not be used in contingencies, except as provided for in E.O. 11850.

#### **5.17. WOOD-DESTROYING ORGANISMS.**

a. PMCs review construction and repair contract specifications for wooden structures to ensure termite control measures are included. This review protects construction from wood-destroying fungi and insects and specifies that pesticides, when needed, are applied at the highest EPA-labeled concentration and application rate. Soil treatment for termite prevention will be conducted during building construction in accordance with Unified Facilities Guide Specification Section 31 31 16.13.

b. Control of termites and other wood-destroying organisms by a contractor pesticide applicator must be inspected by a PMQAE or a PMPAR trained in pest management. If a location's pest management contract efforts are less than 3 months, the presence of a trained PMQAE or PMPAR is recommended, but not mandatory.

c. Wooden buildings and structures should be inspected by trained personnel at frequencies recommended by the PMC. Inspection guidance can be found in AFPMB TG 29.

## **SECTION 6: PROHIBITED PEST MANAGEMENT PRACTICES**

### **6.1. ELECTRICALLY OPERATED DEVICES.**

Electromagnetic exclusion or control devices, ultrasonic repellent or control devices, and outdoor electrocuting devices are not approved for use on DoD installations. Insect electrocuting devices are permitted to use indoors to control flying insects when selected, purchased, located, and used in accordance with AFPMB TG 29.

### **6.2. PAINTS AND COATINGS CONTAINING PESTICIDES.**

a. Insecticide-containing paints are not approved for use on DoD property, including:

(1) Interior and exterior pesticide-containing paints applied to structural surfaces, such as walls, ceilings, and siding.

(2) Insecticides formulated and labeled as paint additives.

b. Fungicide-containing paints that inhibit mildew may be used if application directions include no special restrictions due to the fungicide.

c. Approved marine anti-fouling compounds or coatings may be applied to protect surfaces of watercraft.

### **6.3. PREVENTIVE OR SCHEDULED PESTICIDE TREATMENTS.**

Regularly scheduled, periodic pesticide applications are not approved for DoD property, except in situations where the IPM plan clearly documents that no other technology or approach protects personnel or high-value property. DoD installations will not use preventive pesticide treatments, including automated misting devices, unless the appropriate PMC has given approval based on current surveillance information or records documenting past disease vector or pest problems requiring this approach.

## GLOSSARY

### G.1. ACRONYMS.

ACRONYM	MEANING
AFPMB	Armed Forces Pest Management Board
ASD(S)	Assistant Secretary of Defense for Sustainment
CFR	Code of Federal Regulations
DASD(ENV)	Deputy Assistant Secretary of Defense for Environment
DLA	Defense Logistics Agency
DoDI	DoD instruction
E.O.	Executive order
EPA	Environmental Protection Agency
FGS	final governing standard
FIFRA	Federal Insecticide, Fungicide, and Rodenticide Act
FSS	Federal Supply System
GPC	government purchase card
HN	host nation
IPM	integrated pest management
IPMC	integrated pest management coordinator
NPDES	National Pollution Discharge Elimination System
NSN	national stock number
PMC	pest management consultant
PMPAR	pest management performance assessment representative
PMQAE	pest management quality assurance evaluator
TG	technical guide
U.S.C.	United States Code
USDA	U.S. Department of Agriculture
USD(A&S)	Under Secretary of Defense for Acquisition and Sustainment

### G.2. DEFINITIONS.

Unless otherwise noted, these terms and their definitions are for the purpose of this issuance.

<b>TERM</b>	<b>DEFINITION</b>
<b>certified pesticide applicator</b>	Defined in DoDI 4150.07.
<b>contingency location</b>	Defined in DoD Directive 3000.10.
<b>direct supervision</b>	Supervision that requires being at the specific location where pesticide application is conducted; providing instruction and control; and maintaining a line of site view of the work performed. Certain circumstances may temporarily remove the line of site view. Under these temporary circumstances, the supervisor is responsible for the actions of the pesticide applicators. Direct supervision is only permitted for DoD applicators who are in training; it is not permitted for contractor applicators.
<b>disease vector</b>	Defined in DoDI 4150.07.
<b>DoD installation</b>	An enduring or contingency location.
<b>enduring location</b>	Defined in DoDI 4150.07.
<b>invasive species</b>	Defined in DoDI 4150.07.
<b>IPM</b>	Defined in DoDI 4150.07.
<b>IPMC</b>	Defined in DoDI 4150.07.
<b>IPM plan</b>	Defined in DoDI 4150.07.
<b>nuisance pests</b>	Organisms that cause annoyance but do not adversely affect human health.
<b>pesticide</b>	Defined in Section 136(u) of the FIFRA.
<b>pest management</b>	Defined in DoDI 4150.07.
<b>pest management materiel</b>	Defined in DoDI 4150.07.
<b>pest management professional</b>	Defined in DoDI 4150.07.
<b>pests</b>	Defined in DoDI 4150.07.
<b>PMC</b>	Defined in DoDI 4150.07.

<b>TERM</b>	<b>DEFINITION</b>
<b>self-help programs</b>	Defined in DoDI 4150.07.
<b>State</b>	Defined in DoDI 4150.07.
<b>surveillance</b>	Defined in DoDI 4150.07.
<b>TGs</b>	Defined in DoDI 4150.07.
<b>training</b>	Defined in DoDI 4150.07.
<b>uncertified pesticide applicator</b>	An individual without a current certificate of competency from the DoD or a State that allows the application of restricted use pesticides. The individual may only apply pesticides under the direct supervision of a certified applicator.
<b>undesirable plants</b>	Plant species classified as noxious, harmful, injurious, or poisonous, pursuant to State or federal law.
<b>United States</b>	Defined in DoDI 4150.07.

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- DoD Directive 4715.1E, “Environment, Safety, and Occupational Health (ESOH),” March 19, 2005, as amended
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