

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

AIR FORCE MANUAL 32-1053

6 AUGUST 2019



CIVIL ENGINEERING

**INTEGRATED PEST MANAGEMENT
PROGRAM**

COMPLIANCE WITH THIS PUBLICATION IS MANDATORY

ACCESSIBILITY: Publications and forms are available on the e-Publishing website at www.e-Publishing.af.mil for downloading or ordering.

RELEASABILITY: There are no releasability restrictions on this publication.

OPR: AF/A4CF

Certified by: SAF/IE
(Hon John Henderson)

Supersedes: AFI 32-1053, 20 November
2014; AFI 32-1074, 7 November 2014

Pages: 41

This manual implements Air Force policy directive (AFPD) 32-10, *Installations and Facilities*. It provides guidance for pest management programs at Air Force installations. It applies to individuals at all levels who execute the pest management program including Regular Air Force, Air Force Reserve (AFR) and the Air National Guard, except where noted otherwise. Ensure all records created as a result of processes prescribed in this publication are maintained in accordance with Air Force Manual 33-363, *Management of Records*, and disposed of in accordance with the Air Force Records Disposition Schedule located in the Air Force Records Information Management System. 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. Refer recommended changes and questions about this publication to the Office of Primary Responsibility listed above using the Air Force Form 847, *Recommendation for Change of Publication*; route AF Forms 847 from the field through the appropriate chain of command. This publication may be supplemented at any level, but all supplements must be routed to the Office of Primary Responsibility (OPR) listed above for coordination prior to certification and approval. The authorities to waive wing/unit level requirements 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 requestor’s commander for non-tiered compliance items.

SUMMARY OF CHANGES

This document has been substantially revised and should be completely reviewed. Major changes include the addition of guidance regarding the aerial application of pesticides, updated office symbols and organizational changes, new National Pollutant Discharge Elimination System (NPDES) permit requirements for application of pesticides over water, and Innovative Readiness Training (IRT) application and approval processes.

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Chapter 1

OVERVIEW

1.1. Overview. Air Force pest management programs are essential to prevent pest and disease vectors from adversely affecting military readiness, contingency, and peacetime operations. Safe, effective, and environmentally sound Integrated Pest Management (IPM) programs reduce pollution and other risk factors associated with pesticide use. All require well-trained, technically competent pesticide application personnel.

1.2. Applicability.

1.2.1. United States and United States Territories. Use this instruction in the United States and its territories in conjunction with applicable federal, state, and local laws and regulations. Where differences exist between this instruction, federal, state, and local regulations, the most stringent shall be the requirement used. **(T-0)**.

1.2.2. Overseas. The following requirements take precedence over this instruction at all Air Force overseas installations and other enduring locations in the following order of precedence:

1.2.2.1. International Agreements.

1.2.2.2. Country-specific Final Governing Standards (FGS).

1.2.2.3. Overseas Environmental Baseline Guidance Document (OEBGD).

1.2.3. Overseas Contingency Operations. The following requirements take precedence over this instruction during overseas contingency operations in the following order of precedence:

1.2.3.1. Geographic Combatant Command policy.

1.2.3.2. Environmental annexes to operations orders (OPORDS).

1.2.3.3. Operations plans (OPLANS).

Chapter 2

ROLES AND RESPONSIBILITIES

2.1. The Assistant Secretary of the Air Force Installations, Environment, and Energy (SAF/IE). SAF/IE is accountable for all doctrine, strategy, policy, guidance, and resource advocacy related to Air Force pest management programs.

2.2. Deputy Chief of Staff for Logistics, Engineering and Force Protection, Directorate of Civil Engineering (AF/A4C). AF/A4C shall:

2.2.1. Be responsible for Air Force policy, strategy, doctrine, oversight, directive guidance, and resource advocacy related to the Air Force pest management program and the aerial application of pesticides for Regular Air Force and Reserve installations. **Note:** The National Guard Bureau Civil Engineer will maintain and approve National Guard policy.

2.2.2. Be accountable for non-directive guidance related to the Air Force pest management program and the aerial application of pesticides.

2.2.3. Be accountable and responsible for the career field management of Air Force pest management personnel. Advocate to ensure the Air Force has adequate combat pest management capability.

2.3. The Air Force Surgeon General (AF/SG). AF/SG shall:

2.3.1. Provide policy and resource guidance on the surveillance, prevention, and reporting of vector-borne diseases of medical importance.

2.3.2. Interfaces with DoD, major commands (MAJCOM), Air Force Civil Engineer Center (AFCEC), and other Federal, state, and international organizations on the need for developing vector, medical pest and vector borne disease surveillance and suppression programs, including the aerial application of pesticides in accordance with (IAW) AFI 48-102, *Medical Entomology Program*.

2.4. The Air Force Medical Support Agency (AFMSA). AFMSA shall support the development of Air Force policy and directive guidance for the Air Force pest management program as it relates to occupational and environmental health hazards.

2.5. The Air Force Installation and Mission Support Center (AFIMSC). AFIMSC shall:

2.5.1. Support the development of Air Force policy, strategy, doctrine, directive guidance, and provide oversight related to the Air Force pest management program and the aerial application of pesticides.

2.5.2. Be responsible for the development of non-directive publications and resource advocacy related to the Air Force pest management program and the aerial application of pesticides.

2.5.3. Provide resources to develop and maintain an Air Force digital pesticide database.

2.5.4. Coordinate with Air Education and Training Command to validate training requirements for military and Department of Defense civilian pest management personnel (in-residence, correspondence, and on-the-job training) for pesticide applicator certification as

specified in Department of Defense Manual (DODM) 4150.07, *DoD Pest Management Training and Certification Program: The DoD Plan for Pesticide Applicators*.

2.6. The Air Force Civil Engineer Center (AFCEC). AFCEC shall:

2.6.1. Support the development of Air Force policy, strategy, doctrine, directive guidance, oversight, and resource advocacy related to the Air Force pest management program and the aerial application of pesticides.

2.6.2. Provide the Air Force Pest Management subject matter expert to act as the Air Force senior pest management consultant (PMC).

2.6.3. Execute the Air Force pest management and aerial application of pesticide programs by setting standards, developing procedures, and providing technical assistance to implement Air Force policy and programs for in-service and contract pest management operations.

2.6.4. Be responsible to develop, maintain, and approve non-directive guidance to implement the Air Force pest management program and the aerial application of pesticides.

2.6.5. Consult with SAF/IE and AF/A4C on all non-directive guidance and execution of the Air Force pest management and aerial application of pesticide programs.

2.6.6. Provide technical support to AFIMSC detachments through designated MAJCOM PMCs to implement an effective pest management and aerial application program. Provide technical support for Direct Reporting Units (DRU) and small units in accordance with this AFI.

2.6.7. Coordinate with other service agencies on military aerial pest management programs.

2.6.8. Ensure current certification of all designated MAJCOM PMCs in the appropriate DoD pest management categories.

2.6.9. Manage the Air Force pest management self-help program and maintain a current listing of approved self-help pesticides and pest control items. **Note:** This list is available on the CE DASH website

<https://cs2.eis.af.mil/sites/10159/sitepages/service%20page.aspx?service=integrated%20pest%20management>.

2.6.10. Forward contingency pest management records to the Army Public Health Center in accordance with Department of Defense Instruction (DODI) 6490.03, *Deployment Health*, for archiving in the Defense Occupational and Environmental Health Readiness System (DOEHRS).

2.6.11. Use the most recent Management Internal Control Toolset Pesticide Management Communicator and applicable sections of Armed Forces Pest Management Board Technical Guide No. 18, *Installation Pest Management Program Guide*, to assess the effectiveness of installation pest management programs and annually review installation pest management plans for adherence to DoD and Air Force policy.

2.6.12. Collect pest management data to analyze for Air Force-wide issues, consolidate and validate Air Force data for the Department of Defense Pest Management measure of merit submittal, and forward through Director of Civil Engineers to the Armed Forces Pest Management Board (<https://www.acq.osd.mil/eie/afpmb/>).

2.6.13. Coordinate with Office of Secretary of Defense and Secretary of the Air Force for the development and maintenance of a computerized integrated pest management information system.

2.6.14. Represent the Director of Civil Engineers as a voting council member on the Armed Forces Pest Management Board.

2.7. Designated Pest Management Consultants (PMC). PMCs shall:

2.7.1. Provide professional pest management engineer support for designated MAJCOMs through AFIMSC detachments, direct reporting units, and combatant commanders.

2.7.2. Provide consultation services to installations on pesticide application, including aerial application.

2.7.3. Ensure a designated PMC certified in DoD Category 11, Aerial Application, approves proposed pest management projects involving the aerial application of pesticides.

2.7.4. Inform the installation project coordinator of routine project approval or disapproval.

2.7.5. Submit a copy of approved projects for application by Air Force Reserve C-130 assets with documentation to the 910th Airlift Wing.

2.7.6. Certify individuals who have successfully completed DoD Category 11, Aerial Application, certification training IAW DoD Manual 4150.07.

2.7.7. Review and approve the Aerial Application of Pesticides Statement of Need, environmental documentation, and performance work statements for contract actions involving the aerial application of pesticides.

2.7.8. Facilitate development of required National Environmental Policy Act documentation and Title 33 United States Code Section 1251, *Clean Water Act*, National Pollutant Discharge Elimination System pesticide permits to support aerial application of pesticides.

2.7.9. For approved, routine DoD projects involving aerial application of pesticides, ensure a contract quality assurance evaluator has training in DoD Category 11, Aerial Application.

2.7.10. Ensure annual review and update of Integrated Pest Management (IPM) plans with appropriate requirements of this AFI.

2.7.11. Review all pest management contract statements of work for installations under their purview prior to advertising the contract.

2.8. Air Force National Security Emergency Preparedness (AFNORTH/NSEP). AFNORTH/NSEP shall:

2.8.1. Process Federal Emergency Management Agency Mission Assignments and Resource Requests Forms for non-Department of Defense U.S. property, territories, or possessions (**Figure 7.3**) with the lead Federal agency in accordance with AFI 10-801, *Defense Support of Civil Authorities*.

2.8.2. Identify the agency with tactical control (TACON) of the spray mission in accordance with Chairman of the Joint Chiefs of Staff Standing Defense Support of Civil Authorities Execution Order 071415Z Jun 13. Process emergency projects for non-Department of Defense

U.S. property, territories, or possessions (**Figure 7.3**) with local, state, and Federal government agencies.

2.8.3. Coordinate emergency aerial application requests with the Armed Forces Pest Management Board, AF/SG, and Headquarters Air Force Reserve Command, Directorate of Current Operations, Branch of Air Operations (HQ AFRC/A3OO).

2.8.4. Provide operational commanders situational awareness of aerial spray missions.

2.9. Headquarters Air Force Reserve Command, Directorate of Air, Space and Information Operations, Mobility Operations Division (AFRC/A3M). AFRC/A3M shall:

2.9.1. Validate Air Force Reserve capability to perform aerial application missions.

2.9.2. Coordinate and approve the 910th Airlift Wing to perform aerial application missions.

2.9.3. Identify the agencies with operational control (OPCON) and tactical control (TACON) of the spray mission, in accordance with Chairman of the Joint Chiefs of Staff Standing Defense Support of Civil Authorities Execution Order 071415Z Jun 13.

2.9.4. Notify aerial spray mission requesters of mission approval or disapproval.

2.10. The 910th Airlift Wing. 910 AW shall:

2.10.1. Provide the Air Force capability to apply pesticides over large areas using the Modular Aerial Spray System (MASS) in accordance with DoDI 4150.07, *DoD Pest Management Program*. **(T-0)**.

2.10.2. Deploy at least one Pest Management Professional trained for C-130 aerial pesticide application who is certified in Department of Defense Category 11, Aerial Application, on each mission. **(T-0)**.

2.10.3. Serve as the Department of Defense Training Center for Aerial Application of Pest Control by offering the Aerial Application of Pesticides course, AAP-001. **(T-0)**.

2.10.4. Provide consultation services and procedural guidelines for aerial application of pesticides to all DoD organizations regarding routine, emergency, and contingency projects. **(T-0)**.

2.10.5. Conduct operational testing of new pesticides, equipment, and techniques for aerial applications. **(T-3)**.

2.10.6. Maintain a DoD aerial application literature repository and computer-based deposition models. **(T-2)**.

2.11. The Base Civil Engineer (BCE). BCEs shall:

2.11.1. Provide oversight and support of all installation pest management programs. **(T-1)**.

2.11.2. Provide facilities, equipment, and material to support program in accordance with DoDI 4150.07. **(T-0)**.

2.11.3. Provide the appropriate number of certified pest management personnel according to DoDI 4150.07 and Air Force manpower standards to support contingency and installation requirements. **(T-0)**.

2.11.4. Provide protective clothing and equipment to all pest management personnel who mix and apply pesticides (see paragraph 3.4.). **(T-0)**.

2.11.5. Provide pest management support for installation facilities, grounds maintenance, airfield Bird and Wildlife Air Strike Hazard (BASH) mitigation measures, range operations, recreation areas, and golf course maintenance in accordance with AFI 65-106, *Appropriated Fund Support of Morale, Welfare, and Recreation and Nonappropriated Fund Instrumentalities*. **(T-3)**.

2.11.6. Designate in writing an installation pest management coordinator (IPMC) to oversee the development of installation pest management plans, collect and report data on all installation pesticide use, review contract specifications, and serve as the primary point of contact for all installation pesticide compliance. **(T-1)**.

2.11.7. Annually review and approve installation pest management plans and contracts. **(T-3)**.

2.12. The Installation Flight and Operational Medicine Flight Commander (or local equivalent). shall manage the Occupational Health Medical Exam program. This includes baseline exams before pesticide exposure for all CE and golf course personnel who require occupational exams as a result of their pesticide applicator duties. **(T-2)**.

2.13. The Installation Pest Management Coordinator (IPMC). PMCs shall:

2.13.1. Oversee the development of installation pest management plans, collect and report data on all installation pesticide use, review contract specifications, and serve as the primary point of contact for all installation pesticide compliance in accordance with this AFI and DODI 4150.07. **(T-0)**.

2.13.2. Work closely with Force Support Squadron, medical, other CE and pest management personnel to develop an effective pest management program. **(T-3)**.

2.13.3. Ensure pest management programs and facilities comply with all applicable federal, state, and local laws, DODIs, and Air Force requirements. Follow guidance in Armed Forces Pest Management Board Technical Guide No. 17, *Design of Pest Management Facilities*, for designing new facilities and renovating existing facilities. Consult with bioenvironmental engineering personnel regarding the adequacy of the pest management facility to ensure it provides a safe work environment for pest management personnel. **(T-0)**.

2.13.4. Use pesticides approved by the PMC in accordance with Environmental Protection Agency (EPA) label requirements. **(T-0)**. Installation Pest Management Coordinator will ensure the procurement of hazardous material pesticides follows AFI 32-7086, *Hazardous Material Management*, procedures. **(T-0)**.

2.13.5. For overseas installations outside U.S. jurisdiction, apply the Final Governing Standard as developed under Department of Defense Publication 4715.05-G, *Overseas Environmental Baseline Guidance Pesticide Management Checklist*, for the host country and ensure host nation personnel receive non-Federal Insecticide, Fungicide, and Rodenticide Act training in accordance with DODI 4150.07 and the Final Governing Standard. **(T-0)**.

2.13.6. Oversee the training and pesticide applicator certification of peacetime and wartime pest management personnel (DoD and non-appropriated funded) according to the Armed Forces Pest Management Board document, DODM 4150.07. **(T-0)**.

2.14. The Installation Bioenvironmental Engineer. BEs shall:

- 2.14.1. Evaluate potential occupational exposures and the adequacy of exposure control through periodic shop visits. **(T-3)**.
- 2.14.2. Evaluate pest management shop processes and activities and recommend the appropriate personal protective equipment for pest management personnel. **(T-3)**.
- 2.14.3. Conduct respirator training and respirator fit testing of pest management personnel and assist pest management supervisors, as necessary, in the preparation of the written worksite-specific procedures and annual training requirements. **(T-2)**.

2.15. The Installation Public Health Officer (IPHO). IPHOs shall:

- 2.15.1. Determine the type, number, source and human health risk of disease vectors and other medically important pests that may affect the readiness of personnel in accordance with AFI 48-102. **(T-2)**.
- 2.15.2. Conduct pre-and post-treatment surveillance of insect vectors to meet applicable EPA or state pesticide National Pollutant Discharge Elimination System permit requirements. **(T-0)**.
- 2.15.3. Coordinate with CE pest management personnel on preventive measures for pests and monitor the effectiveness of CE pest management efforts. **(T-3)**.
- 2.15.4. Report the value of food lost to pests and total hours spent surveying pests to pest management personnel for forwarding to the MAJCOM PMC in the monthly electronic pest management report. **(T-3)**.
- 2.15.5. Determine the scope of occupational physicals and requirement for immunizations in coordination with the occupational and environmental health working group. **(T-3)**.
- 2.15.6. Work with supervisors to maintain current workplace rosters using Aeromedical Services Information Management System Web. **(T-2)**.
- 2.15.7. Provide consultation on training and technical matters to pest management supervisors on the hazard communication (HAZCOM) program. Supervisors will provide HAZCOM training to other pest management personnel. **(T-0)**.
- 2.15.8. Follow applicable DoD and Defense Health Agency direction with respect to pest management practices and procedures. **(T-0)**.

2.16. The Installation Natural Resources Manager. Natural resource managers shall:

- 2.16.1. Support the implementation of the Integrated Pest Management programs to ensure pest management activities do not adversely affect on-site natural resources in accordance with Air Force Instruction 32-7064, *Integrated Natural Resources Management*. **(T-3)**.
- 2.16.2. Work with MAJCOM and installation pest management personnel to develop relevant sections of the Integrated Natural Resources Management Plan including invasive species, animal damage control, BASH, ecosystem management, forestry, and range and grounds maintenance. **(T-3)**.
- 2.16.3. Coordinate all pest management documentation required by Title 42 United States Code Section 4371, *National Environmental Policy Act*. **(T-0)**.

- 2.16.4. Provide guidance for threatened and endangered species protection. **(T-0)**.
- 2.16.5. Coordinate the Integrated Natural Resources Management Plan and installation pest management plan with the U.S. Fish and Wildlife Service in accordance with the Sikes Act. **(T-0)**.

2.17. The Base Exchange and Defense Commissary Agency Managers. Managers shall:

- 2.17.1. Maintain current pesticide inventory. **(T-2)**.
- 2.17.2. Only market pesticides with current EPA and state registration. **(T-0)**.
- 2.17.3. Follow guidance in Armed Forces Pest Management Board Technical Guide No. 45, *Storage and Display of Retail Pesticides*, and Armed Forces Pest Management Board Technical Guide No. 15, *Pesticide Spill Prevention and Management*. **(T-0)**.
- 2.17.4. Coordinate pesticide disposals with the installation pest management coordinator to ensure disposal is in accordance with the product label and the pest management coordinator's guidance. **(T-2)**.
- 2.17.5. Make hardcopy safety data sheets and product labels available for review by employees, the bioenvironmental engineer, and the fire department. **(T-2)**.

2.18. Golf Course Managers and Superintendents. Managers and superintendents shall:

- 2.18.1. Follow guidance in this instruction, AFI 32-7064, and DODI 4150.07. **(T-0)**.
- 2.18.2. Develop a golf course Integrated Pest Management plan for inclusion as an attachment to the installation pest management plan. **(T-2)**.
- 2.18.3. Consult with the installation pest management coordinator and the MAJCOM PMC on pest management issues. **(T-2)**.
- 2.18.4. Request nonstandard pesticides for golf courses through the installation pest management coordinator and receive approval from the MAJCOM PMC before ordering or using nonstandard, locally purchased pesticides. **Note:** This requirement applies to use of government purchase cards (GPC) and all other forms of procurement. **(T-2)**.
- 2.18.5. The PMC may waive DoD certification requirements for golf course personnel in the Continental United States (CONUS), in accordance with DoDI 4150.07, if the applicator is state certified in appropriate EPA categories. Maintain state certification in accordance with state pesticide certification requirements. **(T-0)**.

Chapter 3

GARRISON PEST MANAGEMENT OPERATIONS

3.1. Overview. The goal of the Air Force pest management program is to meet or exceed Department of Defense pest management Measures of Merit. Additionally, the program aims to promote and support military readiness, installation program planning and maintenance, pollution prevention, conservation of natural and cultural resources, environmental compliance, and integrated pest management.

3.1.1. BCEs:

3.1.1.1. Shall schedule Department of Defense pest management certification and recertification in accordance with DODM 4150.07, through the unit training manager (https://www.acq.osd.mil/eie/afpmb/training_Certification.html). Schedule pesticide applicator recertification not later than six months prior to expiration. **(T-0)**.

3.1.1.2. In accordance with DODM 4150.07, shall send requests for pesticide applicator certification or recertification, following the successful completion of training, to the designated MAJCOM PMC. **Note:** The losing MAJCOM will recertify permanent-change-of-station personnel before their departure if the pesticide applicator certification expires within six months before or after their departure date. **(T-0)**.

3.1.1.3. Shall maintain accurate roster of personnel assigned to the workplace by updating the Occupational Health Supervisor module in Aeromedical Services Information Management System Web at least every 6 months. Notify Public Health of new employees, and any employees separating and retiring IAW AFI 48-145, *Occupational and Environmental Health Program*. **(T-2)**.

3.1.1.4. Shall ensure execution of Occupational Health Medical Exams, to include baseline exams before pesticide exposure, for all Civil Engineer and golf course personnel who require exams as a result of their pesticide applicator duties. **(T-3)**.

3.2. Identifying Pests.

3.2.1. Personnel who need to identify insects, ticks, rodents, and other pests, contact one of the units listed in AFI 48-102 or another appropriate DoD or civilian agency.

3.2.2. In the United States, send specimens to USAFSAM/PHR (Attn: Entomology), 2510 5th Street, Wright-Patterson AFB, OH 45433. **(T-2)**.

3.2.3. Pacific Air Forces (PACAF) installations submit specimens to 18 Aerospace Medical Squadron Theater Preventive Medicine Flight, Unit 5213, Box 10, Kadena AB, Japan (Okinawa), APO AP 96368-5213. **(T-2)**.

3.2.4. United States Air Forces in Europe and Africa (USAFE/AFAFRICA) installations submit specimens to HQ USAFE/AFAFRICA Command Civil Engineer (Attn: Command Entomologist), Unit 3050 Box 10, APO AE 09094-5010. **(T-2)**.

3.3. Facility Maintenance and Construction.

3.3.1. Installations shall operate a self-help pest management program for non-privatized military housing occupants when cost effective and when integrated pest management monitoring indicates the need for a self-help program, following guidance from this AFI, AFI 32-1001, *Civil Engineer Operations*, and AFCEC/COSC. **(T-0)**.

3.3.2. Installation pest management personnel shall work with facility managers and occupants of buildings other than military family housing to control minor pests through housekeeping and self-help pest management products. **(T-3)**.

3.3.3. Installation pest management personnel shall work with other CE shops on facility maintenance and repair when required to control pests. **(T-3)**.

3.3.4. Installation pest management personnel shall work with CE and other design agencies to ensure termite treatments are included in new construction and major renovation projects where required. When needed, use only non-repellent termiticides in accordance with Unified Facilities Guide Specification 31 31 16, *Chemical Termite Control*, applied at the highest EPA-labeled concentration and application rate. **(T-0)**.

3.3.5. Coordinate on all new construction and major renovation projects to address pest management problems in new or renovated facilities. **(T-3)**.

3.4. Destructive Pests.

3.4.1. The installation pest management coordinator or quality assurance evaluator shall report all property damage caused by pests. This includes damage to stored products, golf course, and forestry, recording the information in the Air Force approved electronic pest management reporting system. **(T-2)**.

3.4.2. IPMC shall include termite inspection frequency in installation pest management plans. **(T-2)**.

3.5. Personnel Health.

3.5.1. BCEs shall:

3.5.1.1. Ensure all personnel new to the career field receive a baseline physical exam before potential occupational exposure to pesticides, receive proper immunizations, and complete periodic occupational physical exams as directed by the occupational and environmental health working group. **(T-0)**.

3.5.1.2. Protect the health and safety of pest management personnel through training (including initial and periodic occupational health and hazard communication training), emphasis on good work habits (such as using protective clothing and equipment), and construction that reduces or eliminates hazards. **(T-1)**.

3.5.1.3. All pregnant and breastfeeding pest management personnel shall be referred to Public Health for an exam and information regarding limited duty. **(T-1)**.

3.5.1.4. Inform Public Health promptly about employee work-related illnesses. **(T-0)**.

3.5.1.5. Pest management personnel shall notify public health before applying pesticides in food preparation and consumption facilities, medical facilities, and child development centers. **(T-1)**.

3.5.1.6. Installation Pest Management Coordinators shall coordinate with the bioenvironmental engineer by accomplishing the following:

3.5.1.6.1. Enroll all pesticide applicators into the respiratory protection program. **(T-1)**.

3.5.1.6.2. Ensure bioenvironmental engineering receives:

3.5.1.6.2.1. A copy of installation pesticide inventories. **(T-2)**.

3.5.1.6.2.2. Pertinent Safety Data Sheets (SDS) for each pesticide. **(T-2)**.

3.6. Environmental Protection.

3.6.1. Units shall use recyclable and refillable pesticide containers and closed pesticide mixing and transfer systems as much as possible. **(T-2)**.

3.6.2. Personnel shall not inject insecticides into the soil to control subterranean termites under any military buildings with sub-slab or in-slab heating, ventilation, or air-conditioning ducts, unless the ducts have permanent blocks. **(T-1)**.

3.7. Safety.

3.7.1. Pest management shops shall give the fire department a hardcopy of pest management, self-help, and golf course building location(s) and layout(s) indicating pesticide storage areas. Provide the fire department with a hardcopy of installation pesticide inventories and SDSs annually. **(T-1)**.

3.7.2. Pest management shops shall coordinate all fumigations with installation medical, fire, security forces, and safety personnel. **(T-1)**.

3.7.3. Pest management shops shall not use internal-combustion or electric-power-driven spraying machines for aerosol or mist sprays inside buildings without approval from the bioenvironmental engineer and the installation fire chief. **(T-1)**.

3.7.4. Pest management shops shall remove stray and feral animals in accordance with AFI 48-131, *Veterinary Health Services*, AFI 32-7064, and Armed Forces Pest Management Board Technical Guide No. 37, *Integrated Management of Stray Animals on Military Installations*. Clearly outline the responsibilities of pest management, natural resources, security forces, and veterinary or public health personnel in the installation pest management plan. Consult United States Department of Agriculture (USDA) Wildlife Services on animal damage control and may be contracted to assist with management. **(T-0)**.

3.7.5. Stray animals should be captured and returned to their owner if possible. Pest management shops must transport feral animals to an approved humane shelter facility as specified by the base veterinarian. Do not use pest management facilities as holding areas for animals. **(T-3)**.

3.7.6. Pest management shops shall track collection and disposal of dead animals and report the data to pest management, natural resources, and veterinary and public health personnel. If dead animals harbor disease or parasites of medical importance to human or animal health. Public awareness of local disease presence must be coordinated with the installation public affairs office. **(T-3)**.

3.7.7. BCEs will ensure only certified personnel or uncertified but trained military personnel that are under direct supervision of a Department of Defense certified pesticide applicator apply pesticides according to guidance in DODM 4150.07. **(T-0)**.

3.8. Protective Clothing.

3.8.1. Pest management shops shall ensure protective clothing and equipment for personnel who mix and apply pesticide may include coveralls, respirators, goggles, chemical and oil-resistant rubber gloves, rubber boots, safety shoes, and special fumigation safety equipment. Use of protective equipment and the level of protection shall comply with at least the minimum stated on the pesticide label. **(T-0)**.

3.8.2. Pest management personnel shall keep coveralls clean at all times. To prevent pesticide contamination of other clothing, use shop washing machines and dryers or clearly identify any clothing sent to base laundry services. Never take home contaminated work clothing or clean in washing machines with other clothing. **(T-2)**.

3.8.3. Pest management shops shall properly dispose of clothing that is heavily contaminated by pesticides. **(T-2)**.

3.8.4. Pest management supervisors will keep the current copy of AFI 48-137, *Respiratory Protection Program*, in the shop and should be familiar with its contents. **(T-2)**.

3.9. Procuring and Disposing of Pesticides

3.9.1. All installation pest management personnel shall obtain pesticides and equipment through Air Force supply channels, except as provided by service contracts. **(T-3)**.

3.9.1.1. All installation pest management personnel shall order standard pesticide application equipment from federal supply catalogs. **(T-3)**.

3.9.1.2. All installation pest management personnel shall procure only pesticides from Armed Forces Pest Management Board Standard Pesticides List or non-stock listed products that are approved by the MAJCOM PMC in accordance with the pest management plan. **(T-2)**.

3.9.1.3. All installation pest management personnel shall request and receive approval from the MAJCOM PMC before ordering or using nonstandard, locally purchased pesticides or application equipment. **Note:** This requirement applies to use of GPCs and all other forms of procurement. **(T-2)**.

3.9.1.4. To ensure no one buys or issues non-approved pesticides, all installation pest management personnel shall use advice code 2B on the ordering documents to inform supply personnel that another product may not be substituted for the requested item. **(T-3)**.

3.9.2. Pesticide applicators shall use, store, mix, and dispose of pesticides in accordance with EPA label directions. Reference EPA Endangered Species Protection Bulletins (<https://www.epa.gov/endangered-species/endangered-species-protection-bulletins>) for geographically-specific pesticide use limitations for the protection of endangered or threatened species and their designated vital habitat prior to purchase and use of pesticides. **(T-0)**.

3.9.3. The pest management coordinator, in coordination with the base waste management program coordinator and in accordance with AFI 32-7042, *Waste Management*, will dispose of pesticides or pesticide containers that have deteriorated or cannot be returned to depot

stocks. The Defense Reutilization and Marketing Service will process excess stocks of pesticides for turn-in and disposal according to current environmental policy guidance. **(T-0)**.

3.9.4. All installation pest management personnel shall evaluate opportunities to minimize the use of pesticides while maintaining mission support requirements in accordance with the DoD Strategic Sustainability Performance Plan. **(T-0)**.

3.10. Vehicles and Equipment

3.10.1. Due to the possibility of contamination, only pest management personnel may use pest management vehicles and equipment. **(T-3)**.

3.10.2. Installation pest management personnel shall equip vehicles with locking compartments to ensure the safe handling, storage, and transport of pesticides and other chemicals. **(T-3)**. A telephone maintenance truck is one example of a vehicle that meets these requirements (NSN 2330-00-541-1714). Properly equipped low-speed vehicles (NSN 3740-01-661-5082) can also be used for pesticide application if they meet pesticide and safety requirements and are operated in accordance with the manufacturer's specifications. **(T-3)**.

3.10.3. Installation pest management personnel shall ensure prime movers used for fogging, misting, dusting, and ultra-low-volume application shall have enclosed cabs and internal recirculating air-conditioners to protect the operator from excessive pesticide exposure. **(T-2)**.

3.10.4. Pest Management vehicles must carry emergency phone numbers, pesticide labels, and Safety Data Sheets in case of spills or chemical exposures. They shall also carry a spill cleanup kit capable of containing 110 percent of the largest pesticide volume on the vehicle. Pest management personnel must carry radios or portable phones in vehicles. **(T-3)**.

3.10.5. Installation pest management personnel shall attach placards to vehicle- or trailer-mounted sprayers identifying the product name (brand name from product label) preceded by the word "Diluted" or "End-Use Concentrate." **(T-2)**. Include EPA registration number from concentrate product label, name of active ingredient(s) and percentage(s) of end-use dilution, and appropriate signal word (e.g., Poison, Danger, Warning, Caution). **(T-2)**.

3.10.6. Installation pest management personnel shall keep pesticide dispersal equipment in the CE pest management section. **Exception:** Equipment at base golf courses that have certified pesticide applicators. **(T-2)**.

3.10.7. Pest Management is authorized use of air pellet guns, shotguns, and high-powered rifles (as required) as tools to manage birds and mammals that may threaten personnel, aircraft, property, and equipment. Strictly adhere to paragraphs 3.11.2.1-3.11.2.2 of this AFI.

3.11. Security

3.11.1. Installation pest management personnel shall comply with Armed Forces Pest Management Board Technical Guide No. 7, *Installation Pesticide Security*. **(T-1)**.

3.11.2. Installation pest management personnel shall coordinate with security forces when using firearms or pellet guns for pest management. Logistics Readiness Squadron assigns shotguns for pest control. **(T-1)**.

3.11.2.1. Installation pest management personnel shall notify the security forces desk sergeant before using firearms in pest management operations (including use of pellet rifles). **(T-3)**.

3.11.2.2. Installation pest management personnel shall wear blaze orange vest labeled “Pest Management” when carrying a firearm on base. **(T-3)**.

3.11.2.3. Installation pest management personnel shall procure authorized ammunition through approved DoD and Air Force supply methods in accordance with Air Force Catalog (AFCAT) 21-209, V1, *Ground Munitions*. **(T-1)**.

3.11.2.4. Installation pest management personnel shall properly store firearms and ammunition in accordance with AFI 31-101, *The Air Force Installation Security Program*. **(T-1)**.

3.12. Records.

3.12.1. Installation pest management personnel shall obtain necessary computer hardware and use the Air Force designated pesticide database software to track pesticide inventories and pesticide applicator certifications. **(T-0)**.

3.12.2. Installation pest management personnel shall record daily pesticide use in Air Force-approved pesticide database software. **(T-0)**. If the Air Force designated pesticide database software is not available, record use on DD Form 1532, *Pest Management Report*. **(T-0)**.

3.12.3. Installation pest management personnel shall ensure pesticide recordkeeping complies with state or host nation requirements. **(T-0)**.

3.12.4. Installation pest management personnel shall keep historical records on termite inspection and pesticide application in accordance with the records disposition schedule. **(T-2)**.

3.12.5. Installation pest management personnel shall send monthly reports not later than 10 days after close of month to the local public health, bioenvironmental engineer, and MAJCOM PMC (or ANG Directorate of Civil Engineers). Reports shall include: **(T-2)**.

3.12.5.1. Pesticide inventory data.

3.12.5.2. Pesticide applicator certification data.

3.12.5.3. Pesticide application data for pest management operations on Air Force real property including:

3.12.5.3.1. Pest management shop.

3.12.5.3.2. Self-help pest management.

3.12.5.3.3. Grounds maintenance.

3.12.5.3.4. Golf course.

3.12.5.3.5. Contractors that apply pesticides.

3.12.5.3.6. Forestry.

3.12.5.3.7. Lessee and land permit holders.

3.13. Cooperating with Civilian Pest Management Projects.

3.13.1. When the Air Force and a civilian community have a common pest management problem, Air Force involvement should be proportionate to the military interest.

3.13.2. When pest management work, including aerial spray, is solely for the benefit of persons, communities, states, or other federal agencies in the United States, a request from the appropriate federal agency must go through DoD channels. **(T-0)**.

3.13.3. In overseas areas, units may give comparable assistance upon a request by the appropriate host nation authorities. Obtain Department of State approval per DoD Directive (DoDD) 5100.46. **(T-0)**.

3.14. Non-Pest Management Personnel.

3.14.1. Installation pest management personnel shall not assign prisoners or volunteer workers to apply pesticides **(T-1)**.

3.14.2. After receiving training from pest management personnel, non-pest management personnel may apply pesticides in the following situations:

3.14.2.1. Adult military housing residents (non-privatized), facility managers, and others specified within an approved installation Integrated Pest Management Plan may apply approved self-help pesticides in accordance with the Air Force Self-Help Pest Management Program for Military Housing residents and Facility Managers.

3.14.2.2. All military personnel will use approved arthropod repellents (including individual dynamic absorption kits) for personnel protection and for use on uniforms, tents, and mosquito netting in accordance with DODI 4150.07. **(T-0)**.

3.14.2.3. All civilian personnel working outdoors will only apply repellents labeled for civilian use by the EPA to skin or clothing. **(T-0)**.

3.14.2.4. All military personnel will use DoD-approved aerosol insecticide for quarantine arthropod extermination on aircraft after receiving training from the CE pest management section as directed within DoD Foreign Clearance Guides. **(T-0)**.

3.14.3. After receiving training from Public Health, non-pest-management personnel may apply chemical repellents.

3.15. Contracted Services.

3.15.1. Pest management contracts may be used when more cost effective than in-house services. All pest management contractors must use processes and procedures identified in the installation pest management plan. Contractors shall comply with the pesticide certification, licensing, and registration requirements of the state or country where the work is performed. **(T-0)**.

3.15.2. The MAJCOM PMC will review and approve all performance work statements for contracted pest management services. Installation personnel must receive MAJCOM PMC approval before making a request for procuring commercial pest management service. **(T-2)**.

3.15.3. The CE contract management office will work with the installation contracting office to ensure all prospective contractors send proof that all their personnel have current state

pesticide applicator certifications for the types of operations specified in the contract statement of work prior to starting work. **(T-2)**.

3.15.4. The prospective contractor must operate in compliance with state and local regulations that apply. All pest management contractors must also comply with DODI 4150.07 and contents of this instruction that apply to contract pest management operations. **(T-0)**.

3.15.5. Only state-certified contract pesticide applicators may mix or apply pesticides on CONUS Air Force installations. For overseas installations outside U.S. jurisdiction, follow the host country Final Governing Standard or Overseas Environmental Baseline Guidance Document for pest management contract requirements. At contingency locations outside U.S. jurisdiction, pest management personnel shall follow Geographic Combatant Command or MAJCOM policy as applicable as set forth in environmental annexes to operations orders (OPORDS) or operations plans (OPLANS). **(T-0)**.

3.15.6. The contracting officer and integrated PMC shall approve the location where pesticides are mixed or stored prior to starting work. This site should have secondary containment and backflow prevention as identified in Armed Forces Pest Management Board Technical Guide No. 17. The contractor will properly manage the area to prevent spills. **(T-3)**.

3.15.7. The contractor must comply with all applicable parts of 29 CFR 1910, *Occupational Safety and Health Standards*, 29 CFR 1925, *Safety and Health Standards for Federal Service Contracts*, 40 CFR 150-189 and 49 CFR 171, *Hazardous Materials Regulations*, while on an Air Force installation. **(T-0)**.

3.15.8. Certified pest management shop personnel will help the quality assurance evaluators (QAE) evaluate pest management contracts. **(T-2)**.

3.15.8.1. QAEs must receive training in pest management according to guidance in DODI 4150.07. **(T-0)**. If an installation's total pest management contract efforts are less than 0.25 work years annually, the presence of a trained QAE at the installation is not mandatory.

3.15.8.2. The contractor will furnish the QAE or IPMC with labels and SDSs for all contract pesticide materials 25 days prior to the start of the contract. The QAE or IPMC will submit labels and SDSs to the MAJCOM PMC for approval at least 15 days prior to the start of the contract. Forward any request during the contract period to use unapproved pesticides to the MAJCOM PMC for approval prior to use. **(T-2)**.

3.15.8.3. The contractor must provide data on daily pesticide use for input into the Air Force designated pesticide database software. The contractor, QAE, IPMC, or other CE representative will input data into the Air Force designated pesticide database software and forward it monthly (no later than 10 days after the end of the month) to the MAJCOM PMC, as specified in the contract. **(T-2)**.

3.15.8.4. The QAE, IPMC, or other CE representative must maintain historical pesticide data according to the records disposition schedule. **(T-2)**.

Chapter 4

PREVENTING THE SPREAD OF PESTS

4.1. Overview. Installations shall take measures to prevent the movement of pests and disease vectors requiring quarantine in accordance with DoDI 6200.03, *Public Health Emergency Management within the Department of Defense*, DTR 4500.9-R Part V, *Department of Defense Customs and Border Clearance Policies and Procedures*, and AFI 10-2519, *Public Health Emergencies and Incidents of Public Health Concern*. (T-0).

4.2. Pest management personnel shall work with customs inspectors and loadmasters to ensure cargo is pest-free. Note: U.S. Department of Agriculture and U.S. Customs and Border Protection personnel provide critical assistance on retrograde pest-prevention procedures. (T-0).

4.3. Pest management personnel shall and aircrew shall disinsect aircraft following guidance in the DoD Foreign Clearance Guide when directed by the aircraft commander. Methods used shall be those in Armed Forces Pest Management Board Technical Guide 4. (T-0).

4.4. Installation pest management personnel shall coordinate with local, state, and federal agencies on cooperative agreements for managing invasive and noxious species on Air Force land in accordance with AFI 32-7064 when state or private land in the same area has such programs. (T-0).

Chapter 5

INSTALLATION PEST MANAGEMENT PLAN

5.1. Overview. The Installation Pest Management Plan is the key document that ties together all of the installation's plans, programs and tactics, techniques, and procedures to execute an effective pest management program.

5.2. Review. This plan shall be reviewed by the integrated pest management coordinator and BCE annually to update the current list of certified applicators (DoD and state-level), pesticide inventory, and new standard operating procedures. **(T-0)**. Completely review the plan every five years and staff for a formal coordination. **(T-0)**. Coordination must include the installation natural resources manager, environmental coordinator, public health officer, bioenvironmental engineer, BCE, mission support group commander, and installation commander. **(T-3)**.

5.3. Content. The plan shall address annual requirements, such as labor requirements and integrated pest management measures for each pest. **(T-1)**.

5.3.1. Include necessary attachments such as pesticide labels, safety data sheets, golf course integrated pest management plans, and agreements between appropriate state pesticide organizations and Department of Defense. **(T-0)**. **Note:** Installation Pest Management Coordinators will include any other unique pest management programs in this plan (e.g., Bird Wildlife Aircraft Strike Hazard, invasive species management plans). **(T-3)**.

5.3.2. Base pest management operations on appropriate surveillance data. **(T-3)**. Installation Pest Management Coordinators must ensure vector surveillance data is coordinated with public health, documented, and recorded electronically. **(T-2)**.

5.3.3. If threatened or endangered species are present or there is the potential for such species to be present in the area of a proposed pest management project, the Installation Pest Management Coordinator will need to coordinate the project with the Installation's Environmental Manager and Natural Resources Manager to initiate and complete consultation with the U.S. Fish and Wildlife Service. Overseas locations must comply with Overseas Environmental Baseline Guidance Document and Final Governing Standard for host nation wildlife protection. **(T-0)**.

5.4. Format. In preparing this plan, pest management personnel shall follow format guidance in DODI 4150.07, Enclosure 5, or alternate direction from PMC. **(T-0)**. Installation Pest Management Coordinators will ensure activities such as ranges, radar sites, missile sites, recreation areas, and any other activities that employ pesticides are included in the plan. **(T-0)**.

Chapter 6

CONTINGENCY PEST MANAGEMENT

6.1. References. Use information in Armed Forces Pest Management Board Technical Guide No. 24, *Contingency Pest Management Pocket Guide*, to control disease vectors and pests during field situations worldwide.

6.2. Briefings. Pest management personnel should coordinate with Public Health to ensure personnel in contingency environments are well educated about the risks associated with pests in their area of responsibility.

6.2.1. Pest management personnel shall coordinate with the medical intelligence officer to assess the health risks from disease vectors and other medically important pests. **(T-2)**.

6.2.2. Pest management personnel shall brief BCEs, operational unit commanders, and public health personnel to ensure the allocation of enough resources for protecting deployed personnel against disease vectors and pests. **(T-3)**.

6.2.3. Pest management personnel shall work with public health personnel to ensure that Air Force personnel receive training, in accordance with Armed Forces Pest Management Board Technical Guide No. 36, *Personal Protective Measures Against Insects and Other Arthropods of Military Significance*, on the application of insect repellants and treated clothing for protection against disease vectors and pests likely to be encountered. **(T-0)**.

6.3. Pesticides. Pest management personnel shall procure and use only pesticides listed in the DoD Contingency Pesticide List during contingency operations. **(T-0)**.

6.3.1. During emergency conditions, EPA-registered pesticides may be locally procured with the proper approval (in writing) from a pest management professional designated by the task force surgeon. **(T-0)**. Requests for non-EPA registered pesticides must follow guidance on the Armed Forces Pest Management Board Contingency website (https://www.acq.osd.mil/eie/afpmb/contingency_guidance.html). **(T-0)**.

6.3.2. Pest management personnel shall store contingency pesticides under the same controlled temperature, security, and other conditions as daily use pesticides. **(T-3)**.

6.3.3. Pest management personnel shall rotate contingency pesticide stocks back to pest management shop inventories and replace them with fresh chemicals as needed. **(T-3)**.

6.3.4. Pest management personnel shall report contingency pesticide use and pest surveillance through appropriate command channels or Area of Responsibility PMC to AFCEC/COSC. **(T-3)**. Installation Pest Management Coordinators will forward records to United States Army Public Health Command for archiving in the Defense Occupational and Environmental Health Readiness System (DOEHRs). **(T-0)**.

6.3.5. Pest management personnel shall coordinate pesticide application with the local emergency management and bioenvironmental engineering personnel to assess impact to environmental monitoring equipment. **(T-3)**.

6.4. Contracted Pest Management.

6.4.1. Installations may use pest management contracts when cost effective or when favorable for non-routine, large-scale, or emergency services, especially when circumstances require specialized equipment or expertise. **(T-3)**.

6.4.2. PMCs shall review and technically approve contract documents for pest management operations, including augmentation contracts, to ensure they comply with Status of Forces Agreements, Final Governing Standard, and Overseas Environmental Baseline Guidance Document. **(T-0)**.

6.4.3. The contracting officer shall ensure that quality assurance evaluators who inspect the performance of contractor-provided pest management services are DoD-trained in pest management or hold DoD pest management certification. **(T-0)**.

6.5. Feral and Wild Animal Control.

6.5.1. Pest management personnel shall remove feral or wild animals in accordance with Armed Forces Pest Management Board Technical Guide 3, *Feral Animal Risk Mitigation in Operational Areas* and AFI 48-131. **(T-2)**. Clearly outline the responsibilities of pest management, security forces, and veterinary or public health personnel in the installation pest management plan. **(T-3)**.

6.5.2. The Pest Management Coordinator will provide support to the USDA Wildlife Biologists when BASH actions involve pest and natural resources management. **(T-3)**.

6.5.3. Pest management personnel shall remove and dispose of dead animals unless the service is contracted. **(T-3)**. Personnel who handle dead or dying animals must wear proper personal protective equipment for handling and disposing of the carcasses. **(T-1)**.

Chapter 7

AERIAL APPLICATION OF PESTICIDE

7.1. Overview. Application of pesticides from rotary and fixed-wing aircraft permits rapid coverage of large areas and treating of areas inaccessible to ground-control equipment. It is especially useful when high operational efficiency is necessary to control unexpected outbreaks of vector-borne disease, management of invasive species, and unusual outbreaks of other pests.

7.2. Project Coordinator. The installation commander, or requestor, will appoint a Project Coordinator for Aerial Spray projects when planning for aerial application operations to serve as the focal point for all external organizations throughout the process. **(T-2)**.

7.3. Aerial Application of Pesticides Using Air Force Assets (910th Airlift Wing).

7.3.1. To obtain approval for routine DoD aerial application projects, installations shall follow the guidelines provided in Attachment 2. Once approved, follow the request flow diagram in **Figure 7.1** to obtain 910th Airlift Wing support. **(T-1)**.

7.3.2. Requestor shall ensure Innovative Readiness Training projects conducted over US non-DoD property is approved by the DoD and must follow the flow diagram in **Figure 7.2 (T-3)**.

7.3.3. To obtain aerial application support for emergencies on DoD property, any non-DoD property, or contingencies, requestor shall route requests as outlined in **Figure 7.3, Figure 7.4, or Figure 7.5** as appropriate (see **Table 7.1**). **(T-0)**.

7.3.4. During spray operations, the mission commander will send a daily situation report (SITREP) to the DSCA Geographic Combatant Commander's Joint Force Air Component Commander (JFACC), as appropriate, and to the gaining and parent MAJCOMs. **(T-2)**. Within five business days of mission completion, the mission commander will send a post-mission spray report to AFRC/A300. **(T-2)**.

7.4. The Project Coordinator:

7.4.1. Coordinate to ensure that the installation (or requesting agency) furnishes all pesticide supplies and personnel necessary for the project. Ensure the procurement of hazardous material pesticides follows AFI 32-7086 procedures. **(T-3)**.

7.4.2. Arrange with the local weather unit for weather service support. **(T-3)**.

7.4.3. Arrange for local transportation, billeting, aircraft parking and servicing, and any other services necessary to support aircrews and aircraft. **(T-3)**.

7.4.4. Prior to application, notify the public of proposed aerial spray activities through Public Affairs in accordance with Title 14 CFR Part 137, *Agricultural Aircraft Operations*. News releases to local media must be at least 24 hours prior to application. **Note:** Public notification is the responsibility of the requesting agency. **(T-2)**. Notifications must encompass a 5-mile buffer surrounding the spray block and include the following information:

7.4.4.1. Planned primary and alternate weather dates and times of spraying. **(T-0)**.

7.4.4.2. Area to be treated and justification. **(T-0)**.

7.4.4.3. Information on the safety of the pesticide to warm-blooded animals, plants, and painted finishes at the dosages used. Chemically sensitive individuals may be advised to remain indoors during spraying. **(T-0)**.

7.4.4.4. Information on the type of aircraft flying at low altitudes (e.g., C-130H is large, gray, four-engine aircraft). **(T-0)**.

7.4.4.5. Requirement to protect bees during the application in accordance with Presidential Memorandum *Creating a Federal Strategy to Promote the Health of Honey Bees and Other Pollinators*. (Requestor must notify local apiarists and apiary associations to give them an opportunity to protect their hives.) **(T-0)**.

7.4.5. Ensure the security of pesticides and equipment in accordance with Armed Forces Pest Management Board Technical Guide 7, *Installation Pesticide Security*. **(T-0)**.

7.4.6. Ensure safety coordination with base operations for air traffic control and notify local emergency response agencies when planning missions. **(T-1)**.

7.4.7. Arrange for the installation Fire Emergency Services (FES) to receive familiarization training on the aircraft that includes interior configuration of pesticide dispersal systems, location of releasing mechanisms, and other essential emergency procedures deemed appropriate by the aircrew. This process is vital for safe operations during declared in-flight and ground emergencies. **(T-1)**.

7.4.8. If located overseas, follow the guidance outlined in DoDI 4715.05, *Environmental Compliance at Installations Outside the United States*, for operations of US military vessels and US military aircraft, or off-installation operational and training deployments. Off-installation operational deployments include cases of hostilities, contingency operations in hazardous areas, and when US Forces are operating as part of a multinational force not under the full control of the US. **(T-0)**.

Table 7.1. Approval Process Matrix for 910th Airlift Wing Spray Operations.

Classification	DoD	US, Non-DoD	Non-US, Non-DoD
Routine	Figure 7.1	Figure 7.2	N/A
Disaster/Emergency (Non-War Response)	Figure 7.1	Figure 7.3	Figure 7.4
Wartime/Contingency (Force Health Protection)	Figure 7.5	Figure 7.5	Figure 7.5

Figure 7.1. Process for Requesting 910th Airlift Wing Support for Approved Projects and Emergency Support on DoD Property.

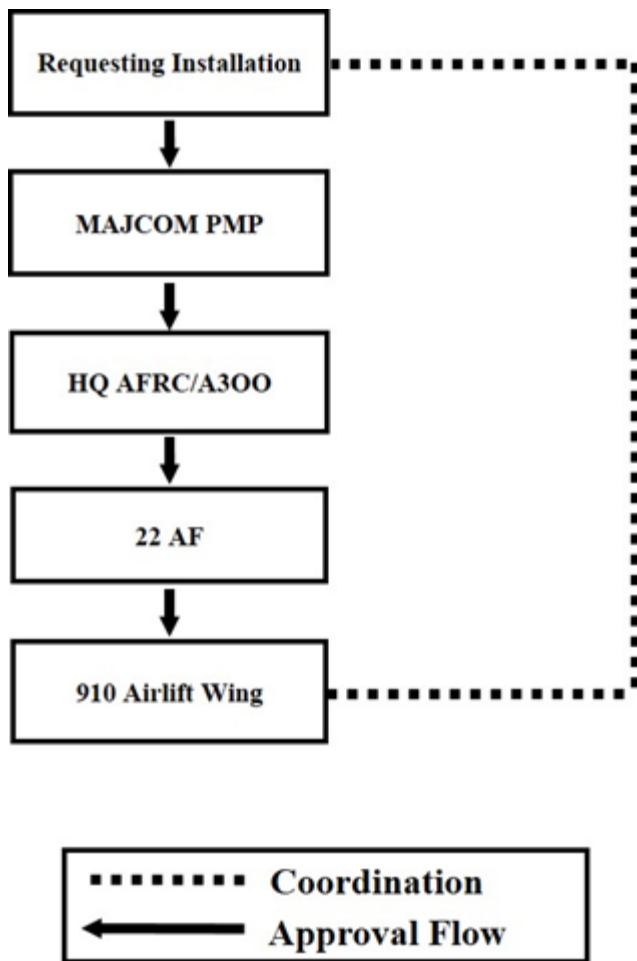


Figure 7.2. Process for Requesting 910th Airlift Wing Support of Routine Approved Innovative Readiness Training (IRT) Projects on Non-DoD US Property.

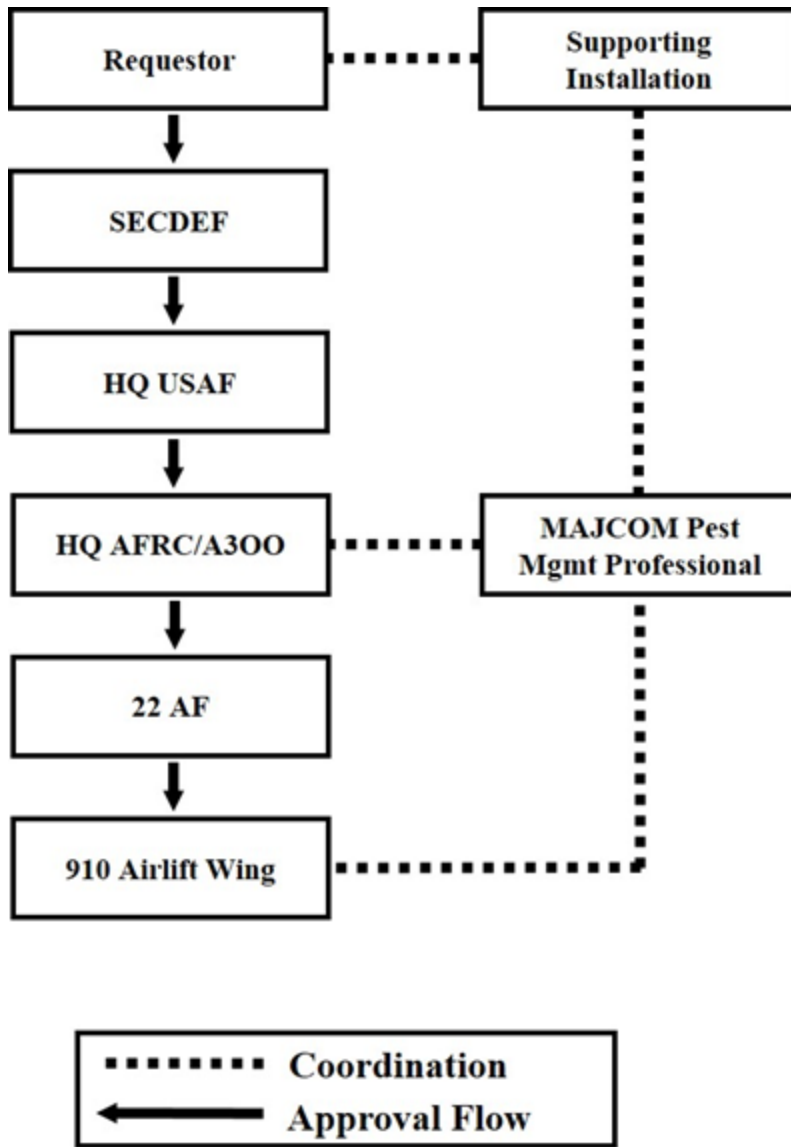


Figure 7.3. Process for Requesting Emergency 910th Airlift Wing Support on Non-DoD US Property, Territories, or Possessions.

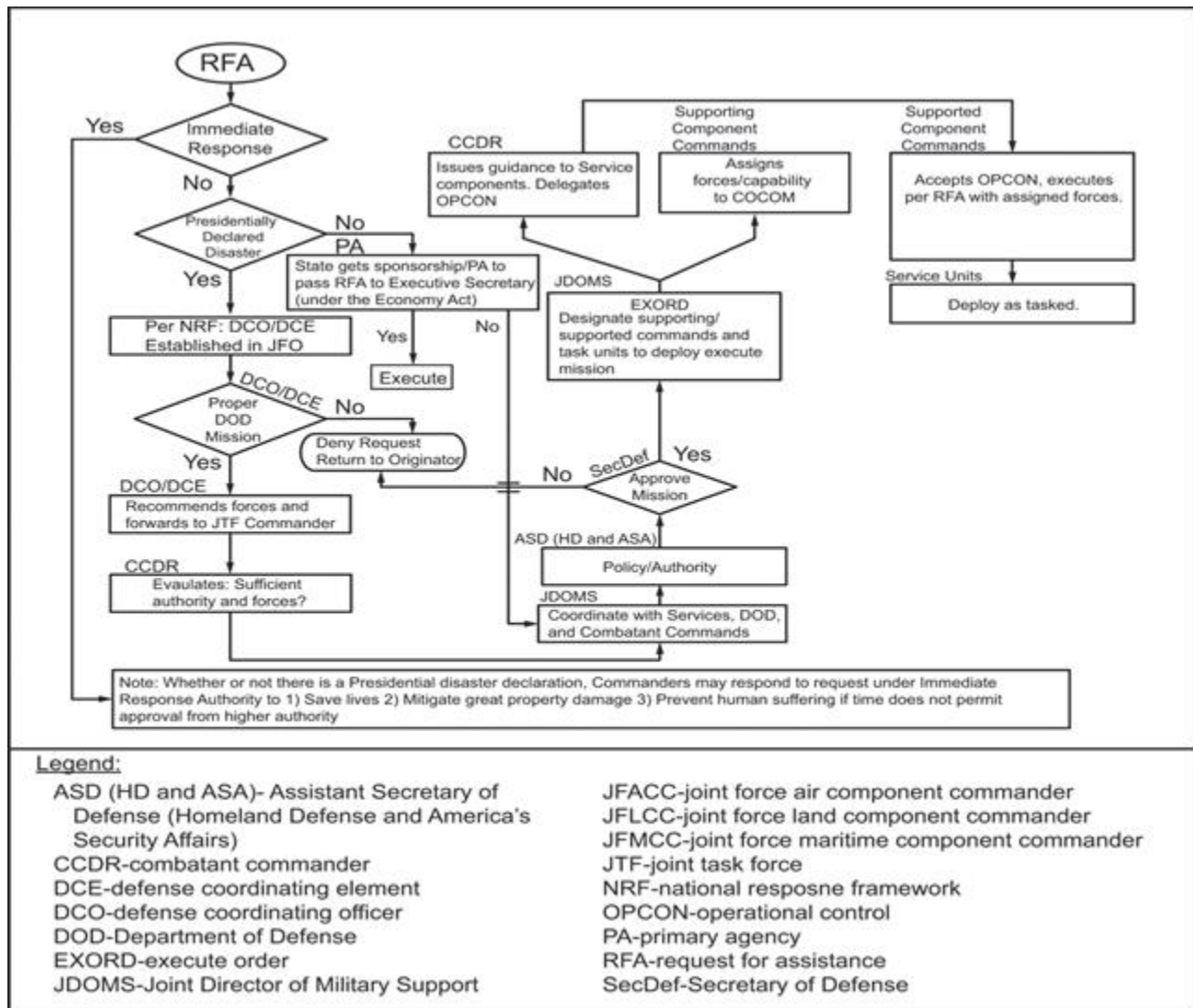


Figure 7.4. Process for Requesting Emergency 910th Airlift Wing Support on Non-DoD, Non-US Property.

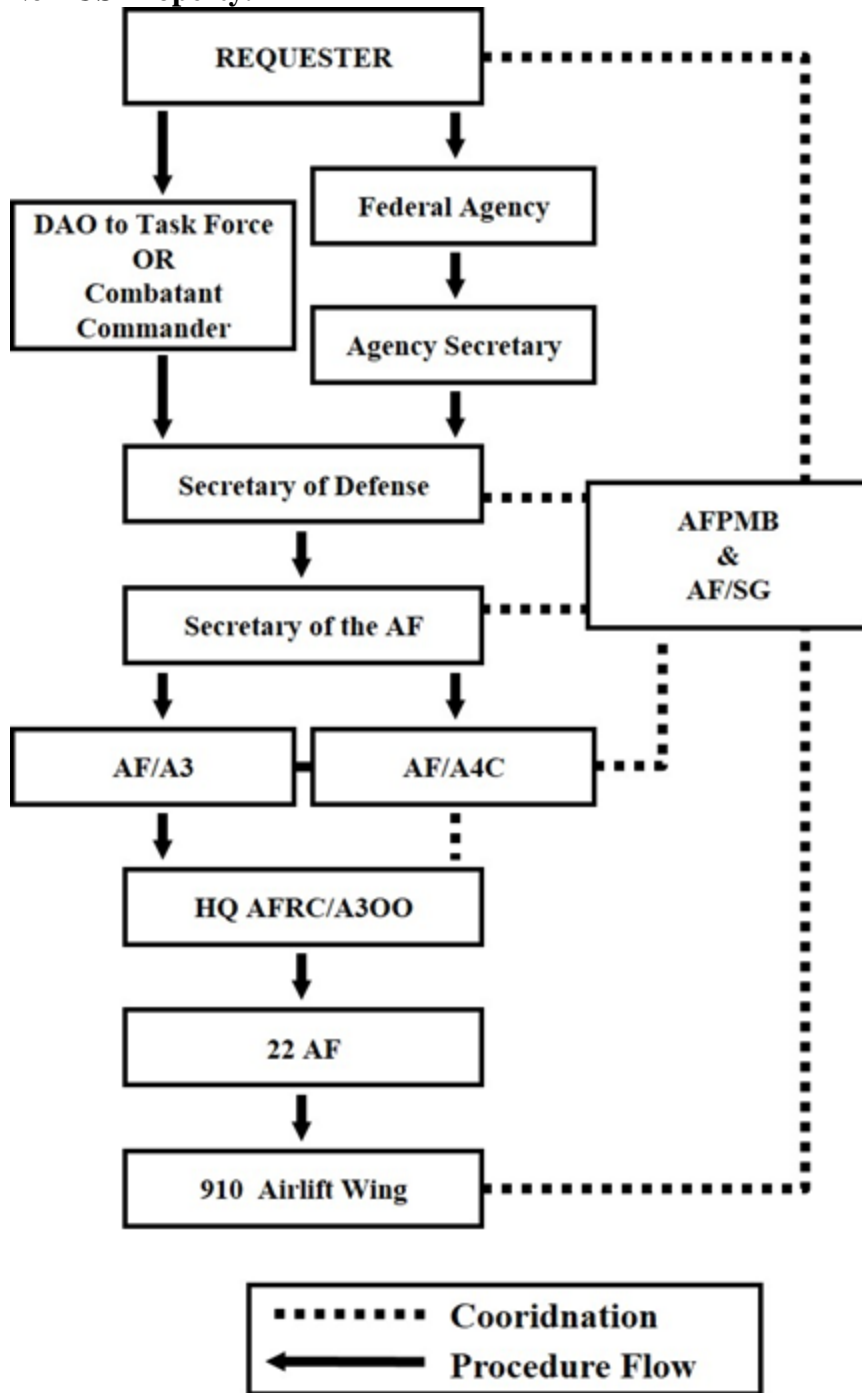
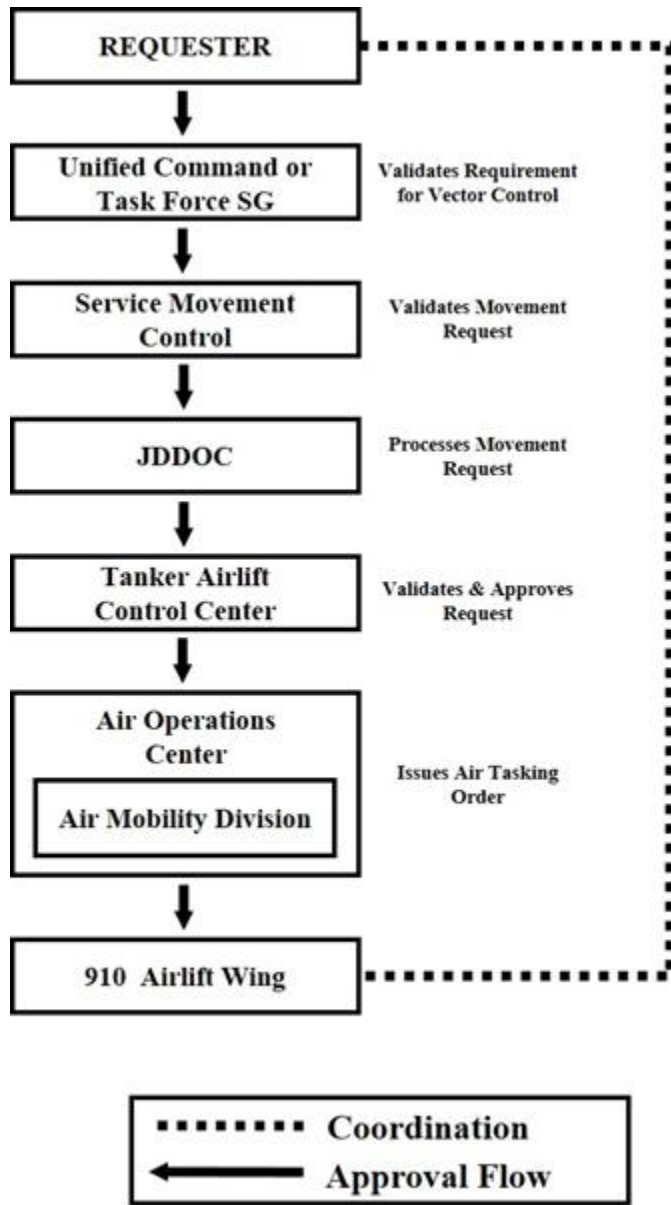


Figure 7.5. Process for Requesting 910 Airlift Wing Support in Contingencies.



7.5. Aerial Application of Pesticides Using Contracts.

7.5.1. Installations will determine a need for aerial application by requesting that the MAJCOM PMC or other pest management professional certified in DoD Category 11, Aerial Application, visit the installation to create a statement of need. **(T-0)**.

7.5.2. Installations shall forward the Aerial Application of Pesticides Statement of Need, environmental documentation (EA or EIS), and Performance Work Statement (PWS) to the PMC for project approval. **(T-0)**.

7.5.3. The Project Coordinator will:

7.5.3.1. Develop a PWS for review by a Pest Management Professional certified in DoD Category 11, Aerial Application. **(T-0)**.

7.5.3.2. Recommend use of best available technology in PWS, to include global positioning system (GPS), to provide precision targeting of spray areas. **(T-0)**. Night Vision Goggles (NVG) should be used during night operations to minimize impact on night-flying pollinators.

7.5.3.3. Ensure that State or EPA Clean Water Act National Pollutant Discharge Elimination System pesticide permits to support aerial application of pesticides is completed **(T-0)**.

7.5.3.4. Forward the Aerial Application of Pesticides Statement of Need, environmental documentation, and PWS to the MAJCOM PMC for project approval. **(T-0)**.

7.5.3.5. Prior to application, notify the public of proposed aerial spray activities through Public Affairs in accordance with Title 14 CFR 137. News releases to local media must be at least 24 hours prior to application. Notifications must encompass a 5-mile buffer surrounding the spray block and include the following information:

7.5.3.5.1. Planned primary and alternate weather dates and times of spraying. **(T-0)**.

7.5.3.5.2. Area to be treated and justification. **(T-0)**.

7.5.3.5.3. Information on the safety of the pesticide to warm-blooded animals, plants, and painted finishes at the dosages used. Chemically sensitive individuals should be advised to remain indoors during spraying. **(T-0)**.

7.5.3.5.4. Information on the type of aircraft (e.g., helicopter or single-engine aircraft) flying at low altitudes. **(T-0)**.

7.5.3.5.5. Information on protection of bees during the application. Requester must notify local apiarists and apiary associations to give them an opportunity to protect their hives. **(T-0)**.

7.5.3.6. Ensure security of pesticides and equipment when using contractors for aerial application of pesticides. **(T-0)**.

7.5.3.7. Ensure safety coordination with base operations for air traffic control. Notify local emergency response agencies when planning missions. **(T-0)**.

7.5.3.8. Obtain the following DoD clearances listed below for contract applicators to spray over or land on DOD property prior to the start of the project. **(T-0)**. **Note:** All DOD forms can be found here <http://www.esd.whs.mil/Directives/forms/>.

7.5.3.8.1. DD Form 2400, *Civil Aircraft Certificate of Insurance*.

7.5.3.8.2. DD Form 2401, *Civil Aircraft Landing Permit*.

7.5.3.8.3. DD Form 2402, *Civil Aircraft Hold Harmless Agreement*.

7.5.3.9. Ensure contract quality assurance personnel are trained in DoD Category 11, Aerial Application. **(T-0)**.

7.5.3.10. Provide pesticide use documentation to the installation pest management coordinator for input into the Air Force designated pesticide database software. **(T-0)**.

7.6. Civil Engineer Environmental Sections:

7.6.1. Accomplish environmental documentation, including an Aerial Application of Pesticides Statement of Need. **Note:** An Aerial Application of Pesticides Statement of Need is required for all routine Air Force aerial spray projects, including contracts. All routine projects by other Service agencies requiring use of Air Force aerial spray assets to control pests must also have an Aerial Application of Pesticides Statement of Need. **(T-0)**.

7.6.2. Coordinate with government agencies and BCE to ensure compliance with applicable Federal, state, local, and host nation environmental laws and standards, including applicable environmental AFIs. **(T-0)**.

7.6.3. Ensure that a spray map with well-defined spray and no-spray area(s) is included in the statement of need. **(T-1)**.

7.6.4. Ensure pre- and post-treatment survey accomplishment to evaluate mission effectiveness. Public Health personnel are responsible for disease vectors and medically important pests. The BCE personnel are responsible for all other pests. **(T-2)**.

7.6.5. Coordinate with the occupational and environmental health working group to address medical, toxicological, and occupational health concerns. **(T-1)**.

7.6.6. Requests legal review of projects. **(T-1)**.

7.6.7. Ensure state or EPA required National Pollutant Discharge Elimination System pesticide permits to support aerial application of pesticides are completed. **(T-0)**.

7.6.8. Send the Aerial Application of Pesticides Statement of Need and environmental documentation to the MAJCOM PMC who has certification in DoD Category 11, Aerial Application, for approval. **(T-0)**.

7.6.9. Ensure unused pesticides and empty pesticide containers are properly stored and disposed of IAW AFI 32-7042. **(T-0)**.

7.6.10. Oversee amendments to the environmental documentation and Aerial Application of Pesticides Statement of Need if the scope of the project changes. **(T-0)**.

7.6.11. Evaluate opportunities to minimize the use of pesticides while maintaining mission support requirements in accordance with the DoD Strategic Sustainability Performance Plan. **(T-0)**.

7.7. Working Group. To accomplish the tasks in this chapter, the project coordinator should form a working group consisting of representatives from the following organizations:

- 7.7.1. Aerospace Medicine or Occupational Medicine (or Service component equivalent).
- 7.7.2. Public Health.
- 7.7.3. Bioenvironmental Engineering.
- 7.7.4. Civil Engineer Pest Management.
- 7.7.5. Installation Environmental Coordinator.
- 7.7.6. Public Affairs.
- 7.7.7. Legal.
- 7.7.8. Others deemed necessary.

WARREN D. BERRY, Lieutenant General, USAF
DCS/Logistics, Engineering & Force Protection

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

Presidential Memorandum, *Creating a Federal Strategy to Promote the Health of Honey Bees and other Pollinators*, 20 Jun 2014

Title 14 CFR Part 137, *Agricultural Aircraft Operations*, 5 March 2018

33 USC § 1251, *Clean Water Act*, 31 Oct 1992

42 USC § 4371, *National Environmental Policy Act*, 13 Sep 1982

Chairman, Joint Chiefs of Staff Standing Executive Order 071415Z, *Defense Support of Civilian Authorities*, June 2013

DoDD 3025.18, *Defense Support of Civil Authorities (DSCA)*, 19 March 2018

DoDD 5100.46, *Foreign Disaster Relief (FDR)*, 28 July 2017

DoDI 4150.07, *DoD Pest Management Program*, 15 September 2017

DoDI 4715.05, *Environmental Compliance at Installations Outside the United States*, 5 October 2017

DoDI 6200.03, *Public Health Emergency Management within the Department of Defense*, 2 October 2013

DoDI 6490.03, *Deployment Health*, 11 August 2006

DoDM 4150.07, *DoD Pest Management Training And Certification Program: The DoD Plan For Pesticide Applicators*, 23 May 2013

DTR 4500.9-R Part V, *Department of Defense Customs and Border Clearance Policies and Procedure*, 5 November 2018

UFGS 31 31 16, *Chemical Termite Control*, May 2017

Armed Forces Pest Management Board Technical Guide 3, *Feral Animal Risk Mitigation in Operational Areas (FARM)*, January 2017

Armed Forces Pest Management Board Technical Guide 4, *Disinsection of Military Aircraft*, July 2018

Armed Forces Pest Management Board Technical Guide 7, *Installation Pesticide Security*, August 2003

Armed Forces Pest Management Board Technical Guide 15, *Pesticide Spill Prevention and Management*, August 2009

Armed Forces Pest Management Board Technical Guide 17, *Design of Pest Management Facilities*, December 2016

Armed Forces Pest Management Board Technical Guide 18, *Installation Integrated Pest Management Program Guide*, December 2016

Armed Forces Pest Management Board Technical Guide 24, *Contingency Pest Management Guide*, September 2012

Armed Forces Pest Management Board Technical Guide 36, *Personal Protective Measures against Insects and other Arthropods of Military Significance*, November 2015

Armed Forces Pest Management Board Technical Guide 37, *Integrated Management of Stray Animals on Military Installations*, December 2016

Armed Forces Pest Management Board Technical Guide 45, *Storage and Display of Retail Pesticides*, December 2016

AFI 10-801, *Defense Support of Civil Authorities*, 23 December 2015

AFI 10-2519, *Public Health Emergencies and Incidents of Public Health Concern*, 26 Jun 2015

AFI 32-1001, *Civil Engineer Operations*, May 2019

AFI 32-7042, *Waste Management*, 7 November 2014

AFI 32-7061, *The Environmental Impact Analysis Process*, 12 March 2003

AFI 32-7064, *Integrated Natural Resources Management*, 18 November 2014

AFI 32-7086, *Hazardous Materials Management*, 4 February 2015

AFI 33-360, *Publications and Forms Management*, 1 December 2015

AFI 48-102, *Medical Entomology Program*, 19 August 2014

AFI 48-131, *Veterinary Health Services*, 29 August 2006

AFI 48-137, *Respiratory Protection Program*, 12 September 2018

AFI 48-145, *Occupational and Environmental Health Program*, 11 July 2018

AFMAN 33-363, *Management of Records*, 1 March 2008

AFPD 32-10, *Installations and Facilities*, 04 March 2010

Adopted Forms

DD Form 1532, *Pest Management Form*

DD Form 2400, *Civil Aircraft Certificate of Insurance*

DD Form 2401, *Civil Aircraft Landing Permit*

DD Form 2402, *Civil Aircraft Hold Harmless Agreement*

AF Form 847, *Recommendation for Change of Publication*

Abbreviations and Acronyms

AFCEC—Air Force Civil Engineer Center

AFIMSC—Air Force Installation Mission Support Center

CFR—Code of Federal Regulations

CONUS—Continental United States

DRU—Direct Reporting Unit

DSCA—Defense Support of Civilian Authorities

FARM—Feral Animal Risk Mitigation in Operational Areas

FGS—Final Governing Standards

FOA—Field Operating Agency

GPS—Global Positioning System

IPMC—Installation Pest Management Coordinator

IRT—Innovative Readiness Training

MAJCOM—Major Command

NPDES—National Pollutant Discharge Elimination System

NVG—Night Vision Goggles

OEBGD—Overseas Environmental Baseline Guidance Document

OPCON—operational control

OPORD—Operations Order

PMC—Pest Management Consultant

TACON—Tactical Control

Terms

Aerial Application of Pesticides Statement of Need—A document prepared by a PMP with certification in DoD Category 11, Aerial Application. If this document states that the proposed project is justified, initiate and prepare an environmental assessment or environmental impact study as required by the MAJCOM. **Note:** See Attachment 3 for the statement of need.

Aircraft Commander—(DoD, NATO) The aircrew member designated by competent authority as being in command of an aircraft and responsible for its safe operation and accomplishment of the assigned mission.

Armed Forces Pest Management Board—A directorate of the Office of the Deputy Under Secretary of Defense (Acquisition, Technology and Logistics). The Air Force Pest Management Board recommends DoD policy, provides scientific advice, and enhances coordination among DoD components on all matters related to pest management.

Direct Reporting Unit—An agency of the United States Department of the Air Force that is exclusively under the control of the CSAF or Vice Chief of Staff (VCSAF).

Disease Vector—Any animal capable of transmitting the causative agent of a human disease; serving as an intermediate or reservoir host of a pathogenic organism; or producing human discomfort or injury, including (but not limited to) mosquitoes, flies, other insects, ticks, mites, snails, and rodents.

Environmental Health—The discipline and program concerned with identifying and preventing illness and injury due to exposure to hazardous chemical, physical, and biological agents that may be encountered in the ambient environment – air, water, or soil.

Global Positioning System—A satellite-based radio navigation system operated by the Department of Defense to provide all military, civil, and commercial users with precise positioning, navigation, and timing.

Hazardous Material—AFI 32-7086 defines the term HAZMAT as including all items covered under the Emergency Planning and Community Right-to-Know Act (EPCRA) Toxic Release Inventory (TRI) (or other host nation, federal, state, or local) reporting requirement, the OSHA HAZCOM Standard, all Class I and Class II Ozone Depleting Substances (ODS), and materials which can reasonably be anticipated to generate a hazardous waste (e.g., an expired shelf-life pharmaceutical item). The AFI 32-7086 definition does not include munitions or Consumer Use Items exempted by the OSHA HAZCOM standard.

Environmental Documentation—An EA or EIS as defined for Air Force projects in AFI 32-7061, *The Environmental Impact Analysis Process*.

Innovative Readiness Training—Proposals by non-DoD organizations for real world training opportunities for the Air Force Reserve Aerial Spray Squadron to prepare for wartime missions. The program primarily supports the needs of America's underserved communities. Submit requests for Innovative Readiness Training projects over non-DoD property for approval through the DoD by the interested community (<http://irt.defense.gov/>).

Installation Commander—The individual responsible for all operations performed by an installation (JP 1-02).

Integrated Natural Resources Management Plan—A plan based on ecosystem management that describes and delineates the interrelationships of the individual natural resources elements in concert with the mission and land use activities affecting the basic land management plans; defines the natural resources elements and the activities required to implement stated goals and objectives for those resources.

Integrated Pest Management (IPM)—A planned program, incorporating continuous monitoring, education, record keeping, and communication to prevent pests and disease vectors from causing unacceptable damage to operations, people, property, materiel, or the environment. Integrated Pest Management uses targeted, sustainable (effective, economical, environmentally sound) methods, including education, habitat modification, biological control, genetic control, cultural control, mechanical control, physical control, regulatory control, and where necessary, the judicious application of least-hazardous pesticides.

Installation Pest Management Coordinator (IPMC)—The installation civil engineer designates a pest management supervisor or natural resources manager for the installation (in accordance with MAJCOM guidance) with responsibility for developing and updating the installation pest management plan. The IPMC will also review installation pest management contracts and the monthly pesticide use (active ingredient) reports submitted to the MAJCOM PMC. Provide pesticide chemical requests to the IPMC for review to ensure compliance with hazardous materials management.

Invasive Species—A non-native alien species whose introduction does or is likely to cause economic or environmental harm or harm to human health (E.O. 13112).

Joint Force Air Component Commander—The commander within a unified command, subordinate unified command, or joint task force responsible to the establishing commander for recommending the proper employment of assigned, attached, or made available for tasking air forces; planning and coordinating air operations; or accomplishing such operational missions as may be assigned.

Multinational Force—A force composed of military elements of nations who have formed an alliance or coalition for some specific purpose.

Measure of Merit—Annual DoD pest management data call as mandated by the EPA pertaining to DoD pesticide applicators.

Non-DoD—Support to non-military federal, state, or local agencies. Support may include humanitarian assistance overseas as approved by the SecDef.

Operational Area—An overarching term encompassing more descriptive terms (such as area of responsibility and joint operations area) for geographic areas in which military operations are conducted.

Personal Protective Equipment—The protective clothing and equipment provided to shield or isolate a person from the chemical, physical, and thermal hazards that can be encountered at a hazardous materials incident.

Pests—Arthropods, birds, rodents, nematodes, fungi, bacteria, viruses, algae, snails, marine borers, snakes, weeds, or other organisms (except for human or animal disease-causing organisms) that adversely affect readiness, military operations, or the well-being of personnel and animals; attack or damage real property, supplies, equipment, or vegetation; or are otherwise undesirable.

Pest Management Consultant (PMC)—DoD PMPs located at Component headquarters, FOAs, MAJCOMs, facilities engineering field divisions, or activities, or area support activities, who provide technical and management guidance for the conduct of installation pest management operations. Some PMCs may be designated by their Component as certifying officials.

Pest Management Professional (PMP)—DoD military officers commissioned in the Medical Service or Biomedical Sciences Corps or DoD civilian personnel with college degrees in biological or agricultural sciences who are in a current assignment that includes pest management responsibilities exercised regularly. DoD civilian employees also shall meet Office of Personnel Management qualification standards. Based on assignment, some PMPs are PMCs.

Subject Matter Expert—Individual(s) knowledgeable in the detailed requirements of a job; usually the supervisor of the work being accomplished in the position or past supervisor or past incumbent(s) of the position(s) or very similar position(s).

Attachment 2

AERIAL APPLICATION OF PESTICIDES PROJECT APPROVAL PROCESS

- A2.1.** Installation personnel identify the potential for using aerial application of pesticides to control problem pests.
- A2.2.** Installation personnel contact the MAJCOM Pest Management Professional and request that a statement of need be prepared by a Pest Management Professional certified in DoD Category 11, Aerial Application.
- A2.3.** The Pest Management Professional conducts an on-site visit and prepares an Aerial Application of Pesticides Statement of Need ([Attachment 3](#)).
- A2.4.** An environmental assessment or environmental impact study is prepared if the Pest Management Professional's Aerial Application of Pesticides Statement of Need justifies the need for an Aerial Application of Pesticides Project.
- A2.5.** The installation commander forwards the Aerial Application of Pesticides Statement of Need and appropriate environmental documentation to the MAJCOM PMC for project approval.
- A2.6.** The project is either approved or disapproved by the PMC with certification in DoD Category 11, Aerial Application. The PMC will coordinate all projects with the MAJCOM Surgeon General's office for vector control. The PMC sends written project approval or disapproval back to the requesting installation. **(T-0)**.
- A2.7.** For projects to be accomplished by the 910th Airlift Wing, send project documentation to 910 AW/DOS by the MAJCOM or requesting installation personnel. Project documentation includes the Aerial Application of Pesticides Statement of Need, environmental documentation, and a copy of written MAJCOM PMC approval for the project. See [Figure 7.1](#).
- A2.8.** For projects to be accomplished by contract, forward the Aerial Application of Pesticides Statement of Need, environmental documentation, and PWS to the MAJCOM PMC for project approval. An installation project coordinator with DoD Category 11 certification will perform quality assurance for all contract aerial application projects. **(T-0)**.
- A2.9.** Approved projects can continue until there's a desire to change the pesticide, application rate, the spray area, or until environmental considerations require re-examination of the project.
- A2.10.** If a re-examination justifies the changes in the statement of need and environmental documentation, resubmit the project for approval.

Attachment 3**AERIAL APPLICATION OF PESTICIDES STATEMENT OF NEED**

A3.1. Requirement. Completion of an Aerial Application of Pesticides Statement of Need is the first step required to obtain approval for an Aerial Application of Pesticides Project at a DoD installation. If the need is justified, an environmental assessment or environmental impact study will be prepared in accordance with MAJCOM guidance. If the need is not justified, terminate the proposed project saving considerable resources by not starting the environmental documentation process.. **(T-0)**.

A3.1.1. Preparer. A Pest Management Professional with certification in DoD Category 11, Aerial Application shall prepare the Aerial Application of Pesticides Statement of Need. **(T-0)**.

A3.1.2. Statement of Need Format:**A3.1.2.1. Introductory Headings:**

A3.1.2.1.1. Name, address, and telephone number of preparer.

A3.1.2.1.2. Dates of on-site survey.

A3.1.2.2. Purpose and Decision for the Need:

A3.1.2.2.1. Purpose of project.

A3.1.2.2.2. Need justified or not justified.

A3.1.2.2.3. Rationale for decision.

A3.1.2.3. Aerial Application Project Parameters: Note: Complete this portion only if the need is justified.

A3.1.2.3.1. Pests and stages to be controlled.

A3.1.2.3.2. Recommended timing of the application.

A3.1.2.3.3. Treatment area map with spray and no-spray or environmentally sensitive areas delineated.

A3.1.2.3.4. Acreage and description of spray and surrounding areas.

A3.1.2.3.5. Recommended pesticides and application rate.

A3.1.2.3.6. Recommended applicator source with justification.

A3.1.2.3.6.1. 910 Airlift Wing aerial spray.

A3.1.2.3.6.2. Contractor.

A3.1.2.3.7. Other.

A3.1.2.4. Signature and Date.