

VOLUME 14

“INTEGRATED PEST MANAGEMENT”

SUMMARY OF VOLUME 14 CHANGES

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REFERENCES

- (a) DoD Instruction 4150.07, "DoD Pest Management Program," May 29, 2008
- (b) Armed Forces Pest Management Board Technical Guidance 18, "Installation Pest Management Program Guide," March 2013
- (c) DoD Manual 4150.07, Volume 1, "DoD Pest Management Training and Certification Program: The DoD Plan for Pesticide Applicators," May 23, 2013
- (d) DoD Manual 4150.07, Volume 3, "DoD Pest Management Training and Certification Program: The DoD Plan for the Federal Insecticide, Fungicide, and Rodenticide Act Pesticide Applicators," May 23, 2013
- (e) Section 136-136y of Title 7, United States Code (7 U.S.C. §136-136y) (also known as "Federal Insecticide, Fungicide, and Rodenticide Act," (FIFRA) as amended)
- (f) Armed Forces Pest Management Board Technical Guide No. 17, "Military Handbook - Design of Pest Management Facilities," August 2009
- (g) Armed Forces Pest Management Board Technical Guide No. 21, "Pesticide Disposal Guide for Pest Control Shops," July 2002
- (h) Armed Forces Pest Management Board Technical Guide No. 15, "Pesticide Spill Prevention and Management," August 2009
- (i) Armed Forces Pest Management Board Technical Guide No. 14, "Personal Protective Equipment for Pest Management Personnel," April 2011
- (j) Armed Forces Pest Management Board Technical Guide No. 16, "Pesticide Fires: Prevention, Control, and Cleanup," June 1981
- (k) Armed Forces Pest Management Board Technical Guide No. 29, "Integrated Pest Management in and Around Buildings," August 2009
- (l) Armed Forces Pest Management Board Technical Guide No. 39, "Guidelines for Preparing DoD Pest Control Contracts Using Integrated Pest Management," February 1997
- (m) 42 U.S.C. 4321
- (n) OPNAV Instruction 6210.2, "Quarantine Regulations of the Navy," June 29, 2006
- (o) Memorandum of Agreement Between the Department of Defense and U.S. Forest Service, "Forest Insect and Disease Suppression Agreement," June 13, 1991
- (p) Departments of the Air Force, the Army, and the Navy, "Weed Control and Plant Growth Regulation," May 24, 1989
- (q) Armed Forces Pest Management Board Technical Guide No. 26, "Tick-Borne Diseases: Vector Surveillance and Control," November 2012
- (r) 16 U.S.C. §§1531-1544
- (s) Armed Forces Pest Management Board Technical Guide No. 20, "Pest Management Operations in Medical Treatment Facilities," December 2012
- (t) Armed Forces Pest Management Board Technical Guide No. 27, "Stored-Product Pest Monitoring Methods," May 2005
- (u) Armed Forces Pest Management Board Technical Guide No. 11, "Hydrogen Phosphide Fumigation with Aluminum Phosphide," March 2013
- (v) Armed Forces Pest Management Board Technical Guide No. 38, "Protecting Meal, Ready-to-Eat Rations (MREs) and Other Subsistence During Storage," May 2005
- (w) 7 U.S.C. §2801
- (x) Armed Forces Pest Management Board Technical Guide No. 37, "Integrated Management of Stray Animals on Military Installations," May 2012

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- (y) 16 U.S.C. §§4701-4751
- (z) Executive Order (E.O.) 11850, "Renunciation of Certain Uses in War of Chemical Herbicides and Riot Control Agents," April 8, 1975

VOLUME 14: CHAPTER 1

“SCOPE”

SUMMARY OF SUBSTANTIVE CHANGES

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CHAPTER 1

SCOPE

0101 PURPOSE

This Volume establishes Marine Corps policy and responsibilities for complying with the legal use of pesticides at Marine Corps installations in accordance with the Department of Defense (DoD) pest management specifications outlined in DoD Instruction 4150.07 (Reference (a)).

0102 APPLICABILITY

010201. See Volume 1 paragraph 0102.

010202. This Volume is also applicable to government owned, contractor operated (GOCO) installations; installation operating services; Marine Corps Community Services functions including golf courses; land management operations including agricultural out leases; public-private venture (PPV) housing and other privatized operations on Marine Corps property; and non-Marine Corps property under Marine Corps stewardship where pest control operations are conducted.

0103 BACKGROUND

010301. General

The DoD pest management specifications described in enclosure 4 of Reference (a) prescribes detailed procedures for the DoD pest management program. Procedures prescribed in accordance with the instruction are based on Integrated Pest Management (IPM) concepts. IPM is required for DoD pest management. IPM is a sustainable approach to managing pests and controlling disease vectors by combining applicable pest management tools in a way that minimizes economic, health, and environmental risks. IPM uses regular or scheduled monitoring to determine if and when treatments are needed and employs physical, mechanical, cultural, biological, genetic, regulatory, chemical, and educational methods to keep pest numbers low enough to prevent unacceptable damage or impacts. Treatments are not made according to a predetermined schedule; they are made only when and where monitoring has indicated that the pest will cause unacceptable economic, medical, or aesthetic damage. Treatments are chosen and timed to be most effective and least disruptive to the natural control of pests. The least hazardous, but effective, pesticides are used judiciously when necessary.

010302. Relationship of Integrated Pest Management (IPM) to Other Environmental Program Areas

A. For Marine Corps policy on wastewater and stormwater, see Volume 20 of this Order.

B. For Marine Corps policy on natural resources conservation, see Volume 11 of this Order.

C. For Marine Corps policy on hazardous material and hazardous waste management, see Volume 9 of this Order.

D. For Marine Corps policy on emergency planning and response, see Volume 7 of this Order.

010303. Health and Safety

Additionally, the Marine Corps shall integrate environmental compliance for pesticides with occupational health and safety policies and regulations.

VOLUME 14: CHAPTER 2

“AUTHORITY”

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CHAPTER 2

AUTHORITY

0201 FEDERAL STATUTES

- 020101. Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) of 1947, as Amended (7 U.S.C. 136 et seq.).
- 020102. Resource Conservation and Recovery Act of 1976, as Amended (42 U.S.C. 6901 et seq.).
- 020103. Federal Water Pollution Control Act of 1972, as Amended by the Clean Water Act of 1977 (33 U.S.C. 1251 et seq.).
- 020104. Emergency Planning and Community Right to Know Act of 1986 (42 U.S.C. 11001 et seq.).
- 020105. Toxic Substances Control Act of 1976 (15 U.S.C. 2601 et seq.).
- 020106. Endangered Species Act of 1973 (16 U.S.C. 1531 et seq.).
- 020107. Migratory Bird Treaty Act of 1918, as Amended (16 U.S.C. 703 et seq.).
- 020108. Federal Noxious Weed Act of 1974 (7 U.S.C. §2814).
- 020109. National Environmental Policy Act of 1969 (42 U.S.C. 4321 et seq.).
- 020110. Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (42 U.S.C. 9601 et seq.).
- 020111. Federal Facilities Compliance Act of 1992 (Public Law 102-386).
- 020112. Food Quality Protection Act of 1996 (Public Law 104-170).
- 020113. Occupational Safety and Health Act of 1970 (29 U.S.C. 651 et seq.).

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VOLUME 14: CHAPTER 3

“REQUIREMENTS”

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CHAPTER 3

REQUIREMENTS

0301 GENERAL

Marine Corps policy is to comply with the DoD requirements set forth in Reference (a) and to employ an IPM program that minimizes pesticide use and that ensures the protection of human health and the environment where pesticide use is necessary.

030101. Establish and maintain safe, effective, and environmentally sound IPM programs to prevent or control pests and disease vectors that may adversely affect readiness or military operations by impairing the health of personnel or by damaging structures, materiel, or property.

030102. Ensure that pest management programs achieve, maintain, and monitor compliance with all applicable Executive Orders (E.O.s) and applicable federal, state, and local statutory and regulatory requirements.

030103. Incorporate sustainable IPM framework, strategies, and techniques into all vector control and pest management planning, training, and operations, including installation IPM Plans (IPMPs) and other written guidance to reduce pesticide risk and prevent pollution.

0302 INTEGRATED PEST MANAGEMENT (IPM) PROGRAM

030201. IPM shall be based on seven steps that are routine procedures for addressing each pest problem:

- A. Identify and assess pest or disease vector problems.
- B. Develop a written management plan or strategy that emphasizes natural controls and nonchemical methods to deal with pest and disease vector problems.
- C. Establish an action threshold for each pest and disease vector problem to define when corrective action shall be implemented.
- D. Use a monitoring procedure, such as inspection, trapping, or surveillance, for each pest and disease vector.
- E. Apply corrective action when a threshold is reached for any pest or disease vector.
- F. Use a documentation system to catalogue monitoring information and to document management problems.
- G. Verify and evaluate procedures to ensure that the IPM program is meeting stated risk reduction measures and that information exists to redesign the IPMP where required.

030202. The written IPMP or strategy shall be a comprehensive document as outlined in Reference (a).

0303 INSTALLATION INTEGRATED PEST MANAGEMENT PLAN (IPMP)

Each installation shall develop, maintain, annually review, and revise their IPMP at a minimum of every five years in accordance with the program elements in enclosure 4 of Reference (a). For more information, see Armed Forces Pest Management Board Technical Guidance 18, "Installation Pest Management Program Guide," March 2013 (Reference (b)). The IPMP shall list all program objectives, arranged in order of priority, according to potential or actual impact on health, morale, structures, materiel, or property. Installations that have more than 0.5 productive work-years of pest management work shall have their own IPMP. Installations with less than 0.5 productive work-years shall have an abbreviated IPMP, or be included in a supporting installation's IPMP. The designated installation IPM Coordinator shall implement and maintain the IPMP. For a suggested outline and more information on IPMPs, see Appendix B and Reference (a).

0304 INSTALLATION CONSULTATIVE SUPPORT, PROGRAM REVIEWS, AND AUDITS

030401. To ensure adequate oversight of Marine Corps Pest Management Programs, Naval Facilities Engineering Command (NAVFAC) Pest Management Consultants (PMCs) will conduct onsite reviews of installation pest management programs at least every 36 months, with the following exceptions:

- A. Installations with less than 0.5 work-years of pest management services shall be reviewed at the discretion of the cognizant NAVFAC PMC.
- B. Onsite review requirements can be met by formal program reviews or assistance visits.

030402. Installations shall notify the appropriate NAVFAC PMC whenever federal, state, or local regulators ask to inspect pest management operations.

0305 PEST MANAGEMENT PERSONNEL TRAINING AND CERTIFICATION

030501. Personnel involved in pest management shall receive appropriate, job-specific education, experience, and training to perform their assigned tasks. For requirements relating to the training and certification of pest management personnel, see DoD Manual 4150.07, Volume 1 (Reference (c)) and DoD Manual 4150.07, Volume 3 (Reference (d)). Professional pest management personnel shall be certified if their duties include:

- A. Making recommendations for the use of pesticides, applying pesticides, or directly supervising the application of pesticides.
- B. Conducting demonstrations on the proper use and techniques of pesticide application or the supervision of such demonstrations.

C. Conducting field research that includes using or supervising the use of pesticides.

030502. All installation pest management personnel who apply or supervise the application of pesticides shall be trained and certified within two years of employment in accordance with Reference (c) authorized by Reference (a), or a U.S. Environmental Protection Agency (EPA)-approved state certification plan. Personnel who are undergoing apprenticeship training, but are not yet certified, shall apply pesticides only under the direct supervision of a certified pesticide applicator.

A. IPM and pesticide application requirements may vary depending on installation mission, location, size, and environmental considerations. Training requirements for individual pesticide applicators may vary due to the pest management categories and complexity of the work to be performed. It is the responsibility of the Marine Corps' Senior PMC to determine the training and experience necessary to perform pest management activities within their areas of responsibility.

B. DoD-certified pesticide applicators shall be recertified every three years in accordance with Reference (c), authorized by Reference (a) and Section 136-136y of Title 7, United States Code (7 U.S.C. §136-136y) (also known and referred to in this Order as "Federal Insecticide, Fungicide, and Rodenticide Act," (FIFRA) as amended) (Reference (e)). The recertification interval for state-certified pesticide applicator contractors varies from one to five years, depending on the state.

C. Contract employees performing pest management work on Marine Corps installations shall be certified prior to the beginning of the contract under a state plan accepted in the state in which the work is performed. The contractor shall provide evidence of certification in all appropriate pest management categories. Additionally, the contractor shall provide evidence of training and experience equivalent to that determined by Marine Corps as necessary to satisfy the performance requirements of the pest management contract. The requiring activity shall ensure that contracts for pest management work require contractors to fulfill the above requirements.

D. Pest Management Performance Assessment Representatives (PMPARs) shall monitor and evaluate contractor performance for pest management services, unless a DoD employee certified in accordance with Reference (c) and authorized by Reference (a) is available to assist the PMPAR. PMPARs shall attend initial training and refresher training every three years in accordance with Reference (d) authorized by Reference (a).

E. Marine Corps personnel and family members who apply pesticides under Marine Corps installation self-help programs or for their own relief are exempted from the certification requirement.

0306 PESTICIDES AND PEST MANAGEMENT EQUIPMENT

030601. Procurement

The cognizant PMC shall approve pesticides prior to purchase, except those pesticides used by military family housing occupants for their own personal relief. This approval applies to all pesticides used on the installation by in-house forces, commercial services, agricultural outleases, GOCO operations, installation operating services management, non-appropriated fund instrumentalities, purchase card users, or any other pest management service provider. Pesticides shall be on the installation authorized use list. Consideration should be given to locally purchased pesticides to ensure conformance with state management plans for groundwater protection and to facilitate use of recyclable pesticide containers when appropriate pesticides are not available in the federal supply system.

030602. Pesticide Labeling

Marine Corps installations shall ensure that EPA-approved labels are on all containers used to store pesticides. If required, items such as Supply Department labels shall be placed so as not to obscure the pesticide label. Copies of pesticide labels shall be maintained at a central location and made available to interested departments (e.g., Fire, Safety). Safety Data Sheets and pesticide labels for every pesticide product in the installation's inventory shall be available at all pesticide facilities.

030603. Pesticide Storage Facilities

New pesticide storage facility design shall comply with the standards described in AFPMB Technical Guide No. 17, "Military Handbook - Design of Pest Management Facilities," August 2009 (Reference (f)). Existing facilities shall comply with all applicable regulatory standards and will, where feasible, be modified to meet the standards for new pesticide storage facilities. Installations shall prohibit the discharge of any wastewater from any pesticide mixing, or equipment cleanup area. Rinsate from triple-rinsed containers shall be applied to the application site in accordance with the pesticide label. Hazardous waste and storage requirements apply, in accordance with the Occupational Safety and Health Administration (OSHA) (see Volume 9 of this Order).

030604. Pesticide Disposal

Installation commanders shall ensure that installation pest management programs are managed so that pesticides do not become hazardous waste. The pesticide facility manager shall ensure that excess EPA-registered pesticides are returned to the Defense Logistics Agency (DLA) Materials Return Program, transferred to a DoD installation able to use the materiel, or transferred to the servicing DLA Disposition Services site. The appropriate NAVFAC PMC will, if requested, provide assistance in identifying installations where usable pesticides could be applied. When EPA publishes a proposed pesticide regulatory action that involves pesticide label suspension or cancellation affecting DoD, installations shall comply with administrative procedures developed between the DLA and the AFPMB. For more information on pesticide disposal, see AFPMB Technical Guide No. 21, "Pesticide Disposal Guide for Pest Control Shops," July 2002 (Reference (g)) for pesticide disposal.

030605. Pesticide Spill Management

The installation IPMP shall include a pesticide spill management plan that has been coordinated with the installation's hazardous material/hazardous waste programs and is part of the

installation's Oil and Hazardous Substances Spill Contingency Plan (see Volume 18 of this Order). Ready-to-use pesticide spill kits shall be present in every storage and mixing facility and in vehicles used to transport or apply pesticides. Contractors shall be responsible for providing their own spill kits. For more information, see AFPMB Technical Guide No. 15, "Pesticide Spill Prevention and Management," August 2009 (Reference (h)).

030606. Pesticide Safety

To ensure the safe use of pesticides, Marine Corps personnel shall handle and apply pesticides in accordance with the product's label directions. For more information, see AFPMB Technical Guide No. 14, "Personal Protective Equipment for Pest Management Personnel," April 2011 (Reference (i)) and AFPMB Technical Guide No. 16, "Pesticide Fires: Prevention, Control, and Cleanup," June 1981 (Reference (j)). Reference (i) provides supply and other data necessary to request and effectively use personal protective equipment as well as a methodology that pest management supervisors may use to help determine personal safety equipment requirements. Reference (j) presents general standards of good practice to assist personnel in dealing with fires involving pesticides. Marine Corps policy prohibits construction of buildings with heating, ventilation, and air-conditioning ducts located in and below the floor to prevent accidental contamination of the ducts with termiticides. Similarly, Marine Corps policy prohibits post-construction treatment of structures with heating, ventilation, and air-conditioning ducts in or below the floor without a waiver from the cognizant NAVFAC PMC.

030607. Electrically Operated Devices

Marine Corps personnel should not use electromagnetic exclusion or control devices, ultrasonic repellent or control devices, and outdoor devices for electrocuting flying insects on Marine Corps installations. However, indoor devices for electrocuting flying insects can be used. Pest surveillance traps and monitoring equipment, such as non-electrocuting mosquito light traps, may be used as integral tools for IPM programs. For more information, see AFPMB Technical Guide No. 29, "Integrated Pest Management in and Around Buildings," August 2009 (Reference (k)).

030608. Occupied Spaces

Pesticide sprays, dusts, and aerosols shall not be applied in occupied spaces (e.g., offices and housing). Approved baits, gels and non-chemical devices such as traps may be placed in safe locations within occupied spaces.

030609. Paints and Coatings Containing Pesticides and Other Biocides

The Marine Corps explicitly prohibits the use of paints containing insecticides on Marine Corps property. This guidance applies to both interior and exterior paints that contain insecticides intended for application to broad structural surfaces such as walls, ceilings, and siding. It also applies to insecticides formulated and labeled for use as paint additives. Paints containing fungicides as mildew inhibitors may be used when application directions specify no special restrictions due to the fungicide. Approved marine antifouling compounds or coatings may be applied to protect the surfaces of watercraft.

030610. Preventive or Scheduled Pesticide Treatments

The Marine Corps explicitly prohibits the use of regularly scheduled, periodic pesticide applications, except in situations where the IPMP clearly documents that no other technology or approach is available to protect personnel or property of high value. Installations shall not use preventive pesticide treatments unless the appropriate NAVFAC PMC has given approval based upon current surveillance information or records documenting past disease vector or pest problems that require this approach.

0307 PEST MANAGEMENT CONTRACTING

030701. Background

The Marine Corps shall use pest management contracts when cost-effective relative to in-house services or when advantageous for non-routine, large-scale, or emergency services, especially when specialized equipment or expertise is needed. Contractors shall comply with applicable state regulatory requirements regarding the certification, licensing, and registration of pest management companies and their employees. Pest control records will be maintained pursuant to section 5.4.5 of Reference (a).

030702. Review and Approval

NAVFAC PMCs shall review and approve contract documents prior to award for pest management operations, including augmentation contracts, to ensure that appropriate pest management standards and IPM are specified. Contract document review includes review of pesticide applicators' licenses and certificates. Review ensures that all agricultural outlease agreements are also reviewed and approved. Installations that lack expertise in pest management should request the services of a NAVFAC PMC to develop the technical portions of pest management contracts. NAVFAC PMCs may act as technical consultants during the performance of contracted work. See AFPMB Technical Guide No. 39, "Guidelines for Preparing DoD Pest Control Contracts Using Integrated Pest Management," February 1997 (Reference (1)) for more information.

030703. Performance Assessment

Installation commanders shall make installation PMPAR staffing decisions based on the following factors:

- A. The number of pest management operations requiring 100 percent inspection.
- B. The number of different functions being performed simultaneously.
- C. The scope of the contract including required productive work-years.
- D. The level of monitoring or surveillance required for each operation.

030704. Government Purchase Cards (GPC)

All pest management services procured using GPCs shall be reviewed in advance by the responsible pest management professional, be performed by state-licensed firms and operators state-certified in the proper category of pest management for the planned work, be under the cognizance of the installation IPMP, and be reported on the installation pesticide use report. Installation policies regarding use of GPCs for pest control shall be addressed in installation IPMPs. Cardholders are not authorized to contract for purchase of pesticides without prior approval from the responsible NAVFAC PMC.

0308 SPECIALIZED PEST MANAGEMENT OPERATIONS

030801. Aerial Application of Pesticides

Documentation for aerial application projects shall be kept in accordance with DoD and Marine Corps environmental requirements including compliance with the requirements of 42 U.S.C. 4321 et seq. (also known and referred to in this Order as “National Environmental Policy Act” (NEPA))(Reference (m)). A NAVFAC or Bureau of Medicine and Surgery (BUMED) PMC who is certified in the aerial application pest control category shall validate and approve all proposed pest management projects that involve the aerial application of pesticides. Approval shall be obtained before aerial application operations commence. Cognizant NAVFAC and BUMED PMCs shall collaborate, as appropriate, with the 910th Airlift Wing (Air Force Reserve) during the review and approval process for aerial spray projects to be completed by the 910th. Installation commanders shall ensure that installation personnel update documentation for project approval if subsequent aerial application operations are planned.

030802. Disinsection of Military Aircraft

Marine Corps personnel shall disinsect military aircraft for disease vectors and agricultural pests only when:

- A. Mandated by the United States Department of Health and Human Services or the U.S. Department of Agriculture (USDA).
- B. Directed by a command-level or higher authority who has determined that the point of embarkation has active vector-borne disease, consistent with OPNAV Instruction 6210.2 (Reference (n)).
- C. No passengers are on board (except when mandated by Reference (n)).

030803. Forest Pests

Marine Corps commanders shall cooperate with the USDA, Forest Service, on applicable pest management programs, including annual USDA funding for forest insect and disease suppression projects on Marine Corps-controlled land in accordance with Memorandum of Agreement between DoD and U.S. Forest Service, “Forest Insect and Disease Suppression Agreement,” June 13, 1991 (Reference (o)) (see also Departments of the Air Force, the Army, and the Navy, “Weed Control and Plant Growth Regulation,” May 24, 1989 (Reference (p))).

030804. Medically Important Pests

The Marine Corps shall ensure that responsibilities for surveillance and control of medically important insects and other arthropods are clearly delineated in installation IPMPs and operational plans. Specific guidance on the surveillance and control of tick-borne diseases is found in AFPMB Technical Guide No. 26, "Tick-Borne Diseases: Vector Surveillance and Control," November 2012 (Reference (q)).

030805. Pesticide Applications in the Habitat of Endangered Species

The Marine Corps shall comply with regulations, including those issued in accordance with the 16 U.S.C. §§1531-1544 (also known and referred to in this Order as "The Endangered Species Act") (Reference (r)), which requires federal agencies to ensure that their actions will not jeopardize endangered and threatened species or associated habitat. Installation commanders shall ensure that their installation IPMPs consider endangered and threatened species. Installation IPMPs shall comply with EPA limitations on pesticide use and be developed in consultation with the U.S. Fish and Wildlife Service when affecting listed species' habitat (Reference (a)).

030806. Pests in Health Care Facilities

Installation commanders should ensure that pest management in health care facilities is conducted according to the guidance in AFPMB Technical Guide No. 20, "Pest Management Operations in Medical Treatment Facilities," December 2012 (Reference (s)).

030807. Pest Management in Child Care and Food Service Facilities

Installation commanders ensure that responsibilities for surveillance and control of insects and other arthropods in child care and food service facilities are clearly delineated in installation IPMPs and operations.

030808. Pest Management in Military Quarters and Housing

A. Background

Installation commanders shall ensure that residents of military quarters and housing practice good sanitation and correct minor nuisance pest problems. PPV housing is subject to the requirements of the lease agreement and management plan. PPV housing contracts and lease agreements shall include appropriate pest management provisions. Military quarters and housing occupants are responsible for controlling pests such as cockroaches, household infesting ants, and mice not originating in other quarters. The control of medically important pests, including venomous arthropods, which could affect human health, and structural pests which could damage property, are not the occupant's responsibility.

B. Installation Role

1. Installation commanders shall ensure that installation pest management services are provided in military housing when the pest threatens government property or the

occupants' health and when the occupants have been unable to control the pests through self-help efforts. Exceptions shall only be made with the concurrence of the cognizant NAVFAC PMC.

2. Installation commanders may allow residents of military housing to contract with licensed pest management companies at their own expense.

C. Self-Help Program

1. Installation commanders shall establish installation self-help pest management for non-PPV military housing when cost-effective and when IPM monitoring indicates the need for a self-help program. Self-help pest management materials issued to occupants of military housing may include cockroach and ant baits and/or traps, mouse traps, and glue boards, as recommended by the cognizant NAVFAC PMC. Liquid pesticides should not be issued. The office designated to manage the installation's self-help program should coordinate procurement and the storage of pest management materials with the installation IPM Coordinator.

2. Installation commanders shall ensure that personnel issuing self-help materials provide written instructions and appropriate precautions, beyond those on pesticide labels, to military quarters' and housing occupants to ensure proper pesticide application and safety.

3. If pesticides are issued to occupants, records shall be maintained as described in paragraph 0310. These records should enable installation self-help personnel to validate the occupant's attempts to control target pests before providing installation pest management services. NAVFAC PMCs should review these records during program reviews to evaluate the efficiency and effectiveness of the installation's self-help program.

4. The NAVFAC PMC may develop, validate the need for, and authorize non-housing self-help programs. These programs may include nuisance pest control at small, detached facilities or spot control of weeds in sidewalks around a facility. The installation IPM Coordinator and Environmental Department shall review and recommend approval of the program and then forward to the NAVFAC PMC for validation and authorization. The IPM Coordinator will coordinate training for the self-help applicators prior to pesticide application. The applicators shall use only ready-to-use pesticides authorized by the PMC and listed on the installation's pesticide authorized use list. All applications shall be recorded and reported in accordance with paragraph 0310. The program will be documented in the IPMP.

030809. Pest Management at Closing Installations

Because pests may cause serious damage to unused facilities, commanders shall ensure that closing or closed facilities are protected from pests from the beginning of deactivation until property disposal. NAVFAC PMCs are available to provide guidance.

030810. Quarantinable Pests

Reference (n) contains policy for quarantine regulations applicable to the Marine Corps and Navy.

030811. Stored Products Pests

Installation commanders shall implement measures to minimize insect and vertebrate pest damage to subsistence, clothing and textiles, medical, and other infestible stored materiel. AFPMB Technical Guide No. 27, "Stored-Product Pest Monitoring Methods," May 2005 (Reference (t)) provides additional details. AFPMB Technical Guide No. 11, "Hydrogen Phosphide Fumigation with Aluminum Phosphide," March 2013 (Reference (u)) and AFPMB Technical Guide No. 38, "Protecting Meal, Ready-to-Eat Rations (MREs) and Other Subsistence During Storage," May 2005 (Reference (v)) provide more information on fumigating subsistence stocks.

030812. Turf and Ornamental Pests

Installation commanders shall implement measures to prevent unacceptable damage to shade trees, ornamental plantings, and turf (including golf courses) by insects, diseases, and weeds. Further, they shall ensure that pesticide applications, if required, are based on the specific identification of the target pest by trained personnel. The IPMP shall identify recurring infestations. Installation commanders shall ensure that the installation IPMP describes the use of IPM for turf and ornamental pests, and environmentally and economically beneficial land management practices, such as the use of native plants to reduce pesticide use.

030813. Undesirable Plants

Installation commanders shall develop programs to comply with 7 U.S.C. §2801 (Reference (w)). Installation commanders shall:

- A. Designate an office or person adequately trained in the management of undesirable plant species to develop and coordinate the installation undesirable plant management program.
- B. Plan, program, and budget to achieve, maintain, and monitor compliance with Reference (w).
- C. Ensure that their installation completes and carries out cooperative agreements with state agencies regarding the management of undesirable plant species on installations.
- D. Establish integrated management systems to control or contain undesirable plant species targeted under cooperative agreements. Reference (w) does not require the commanders to carry out programs on installations unless similar programs are being implemented on state or private lands in the vicinity of the installation.

030814. Vertebrate Pests

Installation commanders shall manage vertebrate pests in accordance with the Memorandum of Agreement between the DoD and USDA, Animal Plant Health Inspection Service, Animal Damage Control, and:

- A. Implement vertebrate pest management programs including wildlife aircraft strike hazard reduction programs to prevent interference with operations, destruction of real property, and adverse impacts on health and morale.
- B. Cooperate with federal, state, and local agencies that have implemented animal damage control programs on adjacent public and private lands.
- C. Identify the potential for secondary and non-target effects to other organisms and design programs to preclude or minimize the risks.
- D. Obtain all applicable federal, state, and local permits.
- E. Use guidance in AFPMB Technical Guide No. 37, "Integrated Management of Stray Animals on Military Installations," May 2012 (Reference (x)), for conducting stray animal control programs, where consistent with requirements of Reference (r).
- F. Coordinate with installation natural resources, pest management, security, veterinary, and housing personnel, as necessary, to effectively manage vertebrate pests.

030815. Weed Control

Installation commanders shall ensure that weed control is performed according to Reference (p) and 16 U.S.C. §§4701-4751 (Reference (y)), on Marine Corps installations. Herbicides will not be used in war except as provided for in E.O. 11850 (Reference (z)).

030816. Wood-Destroying Organisms

Installation commanders shall ensure that:

- A. NAVFAC PMCs review termite control contract specifications for the proper protection of wood where wood-destroying fungi and insects are present, and specify that termiticides, when needed, are applied at the highest EPA-labeled concentration and application rate.
- B. DoD-certified pesticide applicators apply pesticides or PMPARs inspect contract applications of pesticides for the control of termites and other wood-destroying organisms.
- C. Trained personnel inspect wooden buildings and structures in the range of termites annually in USDA geographic Region 1; biennially in USDA Region 2; or triennially in Region 3, as determined by the cognizant pest management professional. Reference (k) provides additional guidance on these inspections.

030817. Applications Resulting in Discharges to Waters of the United States

National Pollutant Discharge Elimination System (NPDES) permits may be required, depending on state-specific regulations, for any pesticide applications that result in discharges to waters of the United States. Depending on location, permit coverage may be obtained through EPA or an NPDES-authorized state.

0309 PEST MANAGEMENT AND DISEASE VECTOR CONTROL DURING MILITARY CONTINGENCY OPERATIONS, READINESS TRAINING EXERCISES, AND DEPLOYMENTS

030901. Complying with the Department of Defense (DoD) Pest Management Program

Military, civilian personnel and contractors responsible for pest management and disease vector control during military contingency operations, readiness training exercises, and deployments shall apply pesticides consistent with the policies and procedures described in Reference (a).

030902. Application Training and Certification Requirements

The application of pesticides for pest management and disease vector control during military, contingency operations, readiness training exercises, and deployments shall be under the overall direction of personnel certified in accordance with Reference (c), authorized by Reference (a). Individuals who apply pesticides in these situations shall be certified in accordance with Reference (c), authorized by Reference (a), or shall be under the direct or onsite supervision of individuals certified in accordance with Reference (c), authorized by Reference (a). Military personnel who have received special training for limited site application of preselected pesticides during military operations or deployments are exempt from the certification requirement. However, these individuals shall be fully trained, including hands-on training for these specific applications. Commanders shall develop specific site training programs for these individuals and a means to document who has received this training. At a minimum, the training shall include the safe use and proper application of the limited, preselected pesticides for the specific site for which these individuals are trained.

030903. Contractors

Contractors who apply pesticides in these situations shall comply with Reference (a).

030904. Recordkeeping

Commanders shall ensure that pesticide use in these situations is recorded, reported, and maintained completely and accurately pursuant to Reference (a).

0310 RECORDS AND REPORTS

031001. Pest Management Records

Maintain complete daily pesticide application and pest management operations records as required by section 136i-1 of Reference (e). Maintain daily records of pesticides applied outside to PPV housing.

A. Records shall include information on kinds, amounts, uses, dates, places of application, applicators names, and certification numbers.

B. The record shall include all pesticide applications performed on the installation, including work done on golf courses, by non-appropriated fund activities, by contract services, and as part of outleases and land management and forestry programs, as well as work performed by installation pest management shops.

C. Records of all pesticide applications shall be retained pursuant to section 5.4.5 of Reference (a).

031002. Pest Management Reports

All pest management operations shall be reported using the NAVFAC Online Pesticide Reporting System or other electronic reporting system approved by a PMC to provide an electronic copy of the data. The cognizant NAVFAC Professional PMC should be contacted to obtain an account to use the system. For deployments and contingencies DD Form 1532, available on AFPMB's website, shall be used. The report shall include individual daily records of all pest control operations, both chemical and non-chemical, including surveys. Records should be electronically submitted at least monthly.

031003. Consultants

NAVFAC PMCs may use these data to evaluate the efficiency of the overall installation pest management program and pest management operations.

031004. Exclusions

Pesticides applied by installation personnel for personal relief are excluded from the record keeping requirement.

0311 ENVIRONMENTAL COMPLIANCE

See Volume 4 of this Order for information on policy, responsibility, and procedures for achieving compliance with applicable E.O.s, and federal, state, interstate, and regional statutory and regulatory environmental requirements.

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VOLUME 14: CHAPTER 4

“RESPONSIBILITIES”

SUMMARY OF SUBSTANTIVE CHANGES

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CHAPTER 4

RESPONSIBILITIES

0401 CMC (LF)/COMMANDER MCICOM (GF)

CMC (LF)/Commander MCICOM (GF) shall:

040101. Establish and maintain a Marine Corps wide pest management program that conforms to the policy, procedures, and requirements specified in Reference (a).

040102. Exercise oversight and review of installation pest management programs from the Marine Corps major command and headquarters level.

040103. Ensure that actions taken pursuant to the policies outlined in this Volume are consistent with DoD environmental security specifications.

040104. Promote IPM in Marine Corps pest management programs, policies, operations, directives, and publications.

040105. Coordinate pest management actions, as appropriate, with the Assistant Secretary of Defense for Health Affairs and state and local government agencies involved with pest management when human health is an issue.

040106. Support the NAVFAC Applied Biology Program in providing technical assistance to Marine Corps installation pest management programs.

040107. Provide support to Marine Corps installations, commands, units, and tenants by interpreting federal, state, and local pest management regulatory requirements and by uniformly applying Marine Corps policy as set forth in this Order.

040108. Conduct special environmental compliance and protection studies with regard to pest management to assist in establishing policy or initiating actions.

0402 COMMANDING GENERAL (CG)/COMMANDING OFFICER (CO) MARINE CORPS EAST, WEST, PACIFIC, AND NATIONAL CAPITAL REGION

CG/CO Marine Corps East, West, Pacific, and National Capital Region shall Identify and promote opportunities for regional environmental initiatives and contracting support to gain efficiencies. Create environmental program efficiencies by collectively funding studies, coordinating common training programs, developing appropriate Memorandums of Agreement between stakeholders (e.g., Marine Corps TECOM installations, Marine Aircraft Wings, Resident Officer In Charge of Construction offices, etc.) and the Region, and facilitating mutual support between installations as practicable.

0403 COMMANDING GENERAL (CG)/COMMANDING OFFICER (CO) OF MARINE CORPS INSTALLATIONS AND COMMARFORRES AND ALL INSTALLATIONS, UNITS, STATIONS, AND DEPLOYED PERSONNEL WHERE PEST MANAGEMENT OPERATIONS ARE PERFORMED

CG/CO of Marine Corps Installations and COMMARFORRES and all Installations, Units, Stations, and Deployed Personnel where pest management operations are performed shall:

- 040301. Establish and maintain installation programs that conform to the policy, procedures, and requirements specified in Reference (a).
- 040302. Maintain accurate and complete reporting and record keeping of pest management operations and pesticide use.
- 040303. Implement programs to achieve, maintain, and monitor compliance with applicable federal, state, and local statutory and regulatory requirements for pest management.
- 040304. Ensure that commanders of deployed forces enforce the use of all appropriate personal protection measures, including arthropod skin and clothing repellents and bed nets, to protect their troops from vector-borne diseases and rodent and arthropod health threats. Where appropriate, ensure that the same protective measures are available for use during field training on Marine Corps installations.
- 040305. Maintain records of pest management operations and report as required by paragraph 0310 of this Volume.
- 040306. Implement IPM in Marine Corps pest management programs, installation environmental policy, operations, installation directives, and training, to minimize environmental impact of pest management operations including preventing pesticide pollution.
- 040307. Coordinate pest management actions, as appropriate, with state and local governments, and with host-nation agencies involved with pest management when human and environmental health is at risk.
- 040308. Establish procedures to ensure that findings and discrepancies from pest management program reviews will result in appropriate corrective action.
- 040309. Monitor pesticides available for purchase in Marine Corps commissaries and exchanges to ensure the pesticides available for sale are least-hazardous pesticides that are compatible with DoD IPM programs and are pesticides that comply with applicable federal, state, and local laws.
- 040310. Cooperate with state and local government agencies involved with pest management.

040311. Provide management support, resources, and a professionally qualified pest management staff sufficient to ensure the effective implementation of pest management programs at all organizational levels.

040312. Ensure that the medical department implements programs to protect installation personnel from disease and pesticide exposure and evaluate the effectiveness of vector control operations. This includes monitoring / surveying potential disease vectors and other public health pests on the installation, conducting industrial hygiene surveys of pesticide storage facilities, conducting occupational health monitoring of DoD pesticide applicators, and preparing an emergency vector control plan (in the event of a vector-borne disease outbreak) to be included in the IPMP.

040313. Ensure that each installation has an IPMP and an IPM Coordinator, designated in writing, to implement and maintain the IPMP. The cognizant NAVFAC PMC assists the IPM Coordinator through technical assistance, program review, and program guidance. Installation commanders shall:

- A. Plan and budget for the development and maintenance of the IPMP.
- B. Ensure that qualified personnel develop and update the IPMP annually.
- C. Ensure that the IPM Coordinator formally coordinates appropriate portions of the pest management plan with the senior medical officer, environmental coordinator, and senior public works/facilities officer and ensure that these individuals sign the cover sheet of the IPMP.
- D. Ensure that appropriate portions of the IPMP are reviewed by the natural resources program manager for consistency with the INRMP.
- E. Ensure that the IPM Coordinator forwards the IPMP to the cognizant NAVFAC PMC and BUMED PMC for review, technical approval, and signature on the cover sheet.
- F. Approve and sign the IPMP for implementation.
- G. Ensure that the IPM Coordinator provides oversight and coordination of the installation pest management program and updates the IPMP annually.
- H. Ensure that all pest management operations performed on the installation, except those for personal relief, are recorded properly maintained and are reported to the cognizant NAVFAC PMC.

040314. Coordinate these functions with the supporting NAVFAC Applied Biology section as appropriate.

040315. Incorporate the pest management program into the installation's Environmental Management System.

VOLUME 14: APPENDIX A

“FEDERAL STATUTES, FEDERAL REGULATIONS, EXECUTIVE ORDERS, AND DOD POLICIES”

SUMMARY OF SUBSTANTIVE CHANGES

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APPENDIX A

**FEDERAL STATUTES, FEDERAL REGULATIONS, EXECUTIVE ORDERS, AND DOD
POLICIES**

1 FEDERAL STATUTES

a. Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) of 1947, as Amended, 7 U.S.C. 136 et seq.

FIFRA provides the principal means for preventing adverse effects on the environment from pesticides through product registration and applicator certification. The U.S. EPA's registration of all pesticide products results in label instructions on each container for use, storage, and disposal. Label instructions are legally applicable to all users. Under FIFRA, the EPA must accept certain recalled pesticides for safe disposal. It is illegal to purchase, distribute, or use any pesticide in the continental U.S. or overseas subject to FIFRA jurisdiction that does not have an EPA registration number or for which registration has been canceled or suspended. It is also illegal to apply, store, or dispose of any pesticide or pesticide container in any manner inconsistent with applicable regulations. All pesticides shall be applied by appropriately certified personnel except when used for personal relief. Under FIFRA:

(1) The pesticide label, regulated by EPA, establishes directions for use, precautions for preventing adverse environmental effects, and disposal requirements. Failure to adhere to the labeling requirements or using the substance in a manner inconsistent with the product label is a violation of federal law.

(2) EPA approves federal and state agency plans for training and certification of pesticide applicators.

(3) Records of all pesticide applications shall be retained pursuant to DoD Instruction 4150.07, "DoD Pest Management Program," May 29, 2008; such records must be available for inspection by state or EPA representatives.

b. Resource Conservation and Recovery Act (RCRA) of 1976, as Amended, 42 U.S.C. 6901 et seq.

RCRA outlines the HW management requirements for the disposal of excess or waste pesticides and for equipment and containers contaminated by pesticides. RCRA regulations identify the criteria, standards, and requirements for proper disposal of excess pesticides, pesticide containers, and the waste resulting from the cleanup of pesticide spills (see Volume 9 of this Order).

c. Federal Water Pollution Control Act of 1972, as Amended by the Clean Water Act of 1977, 33 U.S.C. 1251 et seq.

This Act provides for protection of surface waters from contamination by pesticides in wastewater and runoff and the application of pesticides into, over, and near waters of the United

States. Control is exercised through stringent effluent limitations imposed and monitoring of pesticide applications to waters of the US through the stormwater program and the NPDES permitting program and (see Volume 20 of this Order).

d. Emergency Planning and Community Right to Know Act (EPCRA) of 1986, 42 U.S.C. 11001 et seq.

EPCRA provides for protecting and notifying communities in the event of a release of a toxic chemical. The list of toxic chemicals requiring notification includes several pesticides. The Marine Corps must comply with specific provisions of EPCRA (found in sections 301-313) as required by E.O. 13693 and in accordance with Instructions for Implementing Executive Order 13693, "Planning for Federal Sustainability in the Next Decade," June 10, 2015(see Volume 7 of this Order).

e. Toxic Substances Control Act (TSCA) of 1976, 15 U.S.C. 2601 et seq.

This Act requires the EPA to regulate and control harmful chemical and toxic substances in commercial use. Congress enacted TSCA to reduce unreasonable risks from chemicals to human health and the environment. Section 6 of TSCA authorizes the EPA to regulate hazardous chemical substances and mixtures.

f. Endangered Species Act (ESA) of 1973, 16 U.S.C. 1531 et seq.

The ESA provides for protecting threatened and endangered species of fish, wildlife, and plants, and their habitats. The Act requires federal agencies to ensure that no agency action is likely to jeopardize the continued existence of Endangered and Threatened Species. Under ESA, the EPA is required to ensure that pesticide use is not likely to jeopardize endangered species or to adversely affect critical habitats. Endangered species and critical habitat protection is implemented through the pesticide labeling process and the issuance of state specific bulletins.

g. Migratory Bird Treaty Act of 1918, as Amended, 16 U.S.C. 703 et seq.

This Act protects migratory birds and their nests and eggs from being hunted, captured, purchased, or traded. The Act requires a U.S. Fish and Wildlife Service permit be obtained before any action that would lead to direct death of migratory birds, including the use of pesticides to manage bird populations other than starlings, English house finches (house sparrows), and pigeons.

h. Federal Noxious Weed Act of 1974, 7 U.S.C §2814

This Act prescribes integrated management systems to control or contain non-indigenous weeds that injure or have the potential to injure the interests of agriculture and commerce, wildlife resources, or the public health.

i. National Environmental Policy Act of 1969 (NEPA), 42 U.S.C. 4321 et seq.

NEPA specifies requirements for the aerial application and other large scale pesticide applications, as well as the filing of Environmental Impact Statements on pesticide decisions.

j. Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) of 1980, 42 U.S.C. 9601 et seq.

CERCLA authorizes federal action to respond to the release, or substantial threat of release, into the environment of hazardous substances, pollutants, or contaminants that may present an imminent and substantial danger to public health or welfare. Section 107(h) exempts application of pesticide products registered under FIFRA from CERCLA requirements.

k. Federal Facilities Compliance Act (FFCA) of 1992, Public Law 102-386

FFCA waives immunity for federal facilities under solid and hazardous waste laws, CERCLA, and RCRA by allowing states to fine and penalize them for violations. This is applicable only to pesticides that are HWs, or are managed or disposed of as HWs requiring management under RCRA. See Volume 9 of this Order.

l. Food Quality Protection Act of 1996, Public Law 104-170

The Act amends FIFRA and the Food, Drug and Cosmetic Act. The Food Quality Protection Act contains language directly applicable to the DoD Pest Management Program by defining “maintenance applicator” and establishing a requirement for minimum training, defining vector and public health pesticide, defining the term IPM, and promoting IPM through procurement and regulatory policies.

m. Occupational Safety and Health Act (OSHA) of 1970, 29 U.S.C 651 et seq.

This Act establishes safety and health standards to ensure that every worker (including pesticide applicators) in the Nation enjoys safe and healthful working conditions. OSHA is made applicable to federal facilities through E.O. 12196, “Occupational Safety and Health Programs for Federal Employees,” February 26, 1980, and E.O. 13446, “Continuance of Certain Federal Advisory Committees and Amendments to and Revocation of Other Executive Orders,” September 28, 2007.

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VOLUME 14: APPENDIX B

**“OUTLINE FOR INSTALLATION INTEGRATED PEST MANAGEMENT (IPM)
PLANS”**

SUMMARY OF SUBSTANTIVE CHANGES

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APPENDIX B

OUTLINE FOR INSTALLATION INTEGRATED PEST MANAGEMENT (IPM) PLANS

- 1 COVER AND SIGNATURE PAGES
 - a. Title
 - b. Installation or Unit Identification Code
 - c. Approval and Technical Review, including signatures from:
 - (1) IPM Coordinator
 - (2) Installation Environmental Manager
 - (3) Installation Medical Officer
 - (4) Senior Installation Engineer
 - (5) Pest Management Consultant
 - (6) Supply Officer (if responsible for Government purchase card procurement of pest control services)
 - (7) Natural Resources Manager
 - (8) Cultural Resource Manager
 - (9) Installation Commander or Appropriate Government Authority
 - (10) Dates of Last Annual Review and Technical Approval
- 2 EXECUTIVE SUMMARY
- 3 BACKGROUND
 - a. Purpose
 - b. Authority (include installation instruction, standard operating procedure, etc.), if applicable
 - c. Plan Maintenance
- 4 RESPONSIBILITIES

- a. Commander's Representative
 - b. IPM coordinator
 - c. Pest Management Personnel or Contractors
- 5 INTEGRATED PEST MANAGEMENT (IPM)
- a. Legal Mandate
 - b. IPM Operations
- 6 PRIORITY OF PEST MANAGEMENT WORK
- a. Public Health Pests
 - b. Pests Found in and Around Buildings
 - c. Structural Pests
 - d. Noxious or Invasive Plants and Animals
 - e. Undesirable Vegetation
 - f. Golf Course Pests
 - g. Quarantine and Regulated Pests
 - h. Vertebrate Pests
- 7 HEALTH AND SAFETY
- a. Medical Surveillance of Pest Management Personnel
 - b. Hazard Communication
 - c. Personnel Protective Equipment
 - d. Fire Protection
 - e. Pest Management Vehicle(s)
 - f. Protection of the Public

g. Pesticide Shop Health, Safety, and Hazard Surveys (including air sampling and ventilation systems)

8 ENVIRONMENTAL CONSIDERATIONS

- a. Sensitive Areas
- b. Endangered and Protected Species and Critical Habitats
- c. Cultural and Historical Sites
- d. Environmental Documentation
- e. Pesticide Spill and Remediation
- f. Restricted-use and Experimental Pesticides

9 PROGRAM ADMINISTRATION

- a. Pest Management Operations
 - (1) Pest Management Facilities
 - (2) Equipment
 - (3) Staffing requirements
- b. Contracts or Quality Assurance
- c. Out-leases (agricultural and housing)
- d. Inter-service Support Agreements
- e. Reports and Records
- f. Training and Certification
- g. Pesticide Security
- h. Emergency Disease Vector Surveillance and Control
- i. Coordination (i.e., DOD, other Federal, State, and Local)

10 SALE AND DISTRIBUTION OF PESTICIDES

11 INTEGRATED PEST MANAGEMENT (IPM) REFERENCES AND LINKS
12 ANNEXES

- a. IPM outlines
 - (1) Outline Number, Installation, Date
 - (2) Target Pest or Disease Vector
 - (3) Site
 - (4) Surveillance
 - (a) Responsible Organization
 - (b) Methods
 - (c) Frequency
 - (5) Non-chemical Techniques
 - (a) Responsible Organization
 - (b) Type (e.g., biological, cultural, mechanical)
 - (c) Methods
 - (6) Chemical Techniques
 - (a) Responsible Organization
 - (b) Basis for Treatment
 - (c) Control Standard
 - (d) U.S. Environmental Protection Agency Registration Number(s), or refer to pesticide use proposal
 - (7) Remarks
 - (a) Sensitive Areas
 - (b) Prohibited Practices
 - (c) Environmental Concerns
 - (8) Additional Comments (if necessary)

- b. Annual Pesticide Use Proposal
- c. Points of Contact
- d. Certificates of Training or Competency

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