

CHAPTER 11**PESTICIDES****11-1 SCOPE**

This Chapter contains criteria regulating the use, storage and handling of pesticides at DOD installations, but does not address the use of these materials by DOD individuals acting in an unofficial capacity in a residence or garden. The disposal of pesticides is covered in Chapters 6 and 7.

11-2 DEFINITIONS

11-2.1 Certified Pesticide Applicator. A person who applies pesticides or supervises the use of pesticides, and has been authorized to do so by successfully completing a training program approved by the Armed Forces Pest Management Board, followed by formal certification.

11-2.2 Integrated Pest Management (IPM). The use of all appropriate technology and management techniques to bring about pest prevention and suppression in a cost effective and environmentally-sound manner.

11-2.3 Pest. Arthropods, birds, rodents, snakes, snails, marine borers, algae, bacteria, fungi, viruses, weeds, and other organisms (except microorganisms that cause human or animal diseases) that adversely affect the well being of humans or animals, attack real property, equipment and supplies, vegetation, and wildlife, or are otherwise undesirable.

11-2.4 Pest Management Facility. A building or enclosure where pesticides are stored or mixed. This excludes storage facilities for self-help (ready-to-use) program items.

11-2.5 Pest Management Personnel. Personnel involved with activities that monitor or mitigate pest problems, including personnel that manage a pest management program, carry out pest control work (which includes selecting, mixing or applying pesticides), monitor pest populations, coordinate various activities that prevent or mitigate pest problems. This includes active duty, civilian (appropriated and non-appropriated U.S. and host country nationals) and contract workers directly involved with the program; it does not include persons whose contact with pesticides is limited to transporting, loading and unloading closed containers.

11-2.6 Pesticide. Any substance or mixture of substances used to destroy pests, control their activity, or prevent them from causing damage.

11-2.7 Pesticide Handling. Operations involving contact or potential contact with pesticides, including loading, unloading, transferring, mixing, and applying pesticides, filling or cleaning pest management equipment, preparing pesticide waste for disposal, and pesticide spill response.

11-2.8 Pesticide Waste. Materials that are subject to pesticide disposal restrictions and should be treated as excess pesticides for purposes of disposal:

- a. Any pesticide that has been suspended, does not meet specifications, contaminated, improperly mixed, or otherwise unusable, whether concentrated or diluted
- b. Used spill cleanup material
- c. Any containers, equipment, or material that are contaminated with pesticides; empty pesticide containers that have been triple rinsed are not considered hazardous waste, but are normal waste

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11-2.9 Registered Pesticide. A pesticide that has been registered and approved for sale or use within the United States or the host nation.

11-2.10 Restricted-Use Pesticide. A pesticide that has been determined to merit additional restrictions by either the United States or the host nation because it would cause unreasonable adverse effects on health or the environment.

11-2.11 Specially Designated Landfill. A landfill at which complete long-term protection is provided for the quality of surface and subsurface waters from pesticides, pesticide containers, and pesticide-related wastes, and against hazards to public health and the environment, including a chemical waste landfill as defined in Chapter 14.

11-3 CRITERIA

11-3.1 Pesticide Planning.

- a. Installations will implement and maintain a current pest management plan that includes measures for all installation activities and satellite sites that perform pest control. This written plan will include integrated pest management procedures for preventing pest problems, or conditions conducive to pest problems, in order to minimize the use of pesticides; where the use of pesticides is warranted, the least toxic but effective product will be used.
- b. Pesticides will be included in the Installation Spill Contingency Plan (ISCP, or called Spill Prevention Control and Countermeasure Plan, SPCC Plan, see Chapter 18). Notification of pesticide spills exceeding established standards in the Installation, ISCP is required.

11-3.2 Certification. Certification training is required for applicators of pesticides. The appropriate DOD component shall provide annual or as required training for the certification of pesticide applicators. Pesticide applicators will be certified in accordance with DOD Directive 4150.7-M, "DOD Plan for Certification of Applicators of Restricted-Use Pesticides".

11-3.3 Medical Surveillance.

- a. All pesticide applicators will be included in a medical surveillance program to monitor the health and safety of persons occupationally exposed to pesticides. All personnel who apply organophosphate or carbamate pesticides will receive cholinesterase testing at a frequency determined by the local medical council or Japanese equivalent in the case of host nation personnel.
- b. All pest management personnel will be provided with personal protective equipment appropriate for the work they perform and the types of pesticides to which they may be exposed.

11-3.4 Pesticide Use. Installations will only use pesticides:

- a. Approved for stocking by the Armed Forces Pest Management Board (AFPMB); or
- b. Approved in writing by the area DOD entomologist or Pest Management Consultant (PMC); and
- c. Applied by or under the direct supervision of a certified applicator.
- d. The pesticide label 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 the law.

11-3.5 Pesticide Storage.

- a. Pest management facilities, including mixing and storage areas, will comply with the appropriate DOD requirements with regard to design, construction and storage practices. Generally, pesticides will be stored in a dry, well lighted and ventilated, separate room, building or covered area where fire protection is provided. If part of a multi-use structure, pesticides will be stored at the end of the building where the storage is tightly sealed off to preclude noxious vapors from permeating nearby spaces. The foundation will be of slab-on-grade construction and the mixing and storage areas will be treated with an impervious material and provided with 4-inch berms to contain pesticide spills. Identification signs such as "DANGER", "POISON", and "PESTICIDE STORAGE AREA" will be placed on rooms, buildings, and fences to advise of the contents and warn of their hazardous nature. The entire storage facility should be secured by a climb-proof fence, and doors and gates should be kept locked to prevent unauthorized entry.
- b. Labels will bear the appropriate use instructions and precautionary message based on the toxicity category of the pesticide ("DANGER", "WARNING" or "CAUTION"). If Japanese employees use the pesticides, the precautionary message will be in English and Japanese.
- c. Pesticide storage areas will contain a current inventory of all items in storage, including items awaiting disposal, and should be regularly inspected and secured to prevent unauthorized access. The inventory should be posted in a readily-visible area at the storage areas and sent routinely to the installation fire, medical and other emergency services departments.
- d. Material Safety Data Sheets (MSDS) for all pesticides, in the English and Japanese, will be available at the storage and holding facility.

11-3.6 Disposal. Unless otherwise restricted or canceled, pesticides in excess of installation needs will be redistributed within the supply system or disposed of in accordance with procedures below.

- a. The generator of pesticide wastes will determine whether it is hazardous waste within the meaning of the criteria in Chapter 6 of this document. Pesticide waste determined to be hazardous waste will be disposed of in accordance with the criteria for hazardous waste in Chapter 6.
- b. Pesticides that are determined not to be hazardous waste will be disposed of in accordance with the label instructions, through DRMO, or in a specially-designated landfill.

11-3.7 Government-owned Contractor-operated (GOCO) Facilities. Where pest control services are required as part of the maintenance management program on GOCO facilities, the installation plant representative shall ensure that:

- a. All pesticides applied are reported as outlined in Section 11-3.8, and contractors shall report the information to the appropriate PMC via the installation plant representative.
- b. Commercial pest control contractors are licensed and certified to legally perform work on DOD property.

GOCO pest management programs shall be reviewed on-site every three years by the appropriate service PMC. The review shall emphasize protection of real property and structures from biological deterioration and lack of maintenance.

11-3.8 Record Keeping and Reporting.

- a. Pesticide applicators, including commercial pest control contractors, are required to keep records of pesticide applications.
- b. Individual services will establish the required level of record keeping and reporting via their PMCs. The appropriate records will be forwarded, as required, to higher command and medical authorities for review.

11-4. RESPONSIBILITIES

11-4.1 The appropriate DOD component shall provide necessary annual training to certify and recertify preventive medicine technician and other medical department personnel, civilian (U.S. and local) applicator personnel, and non-appropriated department personnel.

11-4.2 Each service shall provide specialized, area-wide operational services including contingency response, medical entomology information, vector-borne disease assessments, and emergency disease vector control in the event of vector-borne disease outbreaks, disasters, or other situations where vector control is beyond the scope of local commands.

11-4.3 Installation commanders shall:

- a. Budget for costs to operate and maintain pest control facilities in compliance with legal requirements.
- b. Develop, implement, and maintain a pest management plan employing IPM strategies documenting all pest management operations and pesticide applications, and ensure that GOCO pest management plans are reviewed on-site every three years.
- c. Identify as early as possible and request funds for corrective projects required to bring all pesticide use, storage, pest management facilities, and disposal operations into compliance with applicable standards.
- d. Comply with the HW requirements in disposing of excess and waste pesticides.
- e. Ensure that wastewater discharged from pesticide mixing facilities is in compliance with applicable pretreatment standards.
- f. Ensure that all pesticide transportation, storage, and formulation areas are addressed in activity hazardous substance release contingency plans.
- g. Forecast and fund necessary training costs.