

SAVANNAH DISTRICT CORPS OF ENGINEERS  
CESAS-OP P.O. BOX 889  
SAVANNAH, GEORGIA 31402-0889

DISTRICT REGULATION  
NO. 1130-2-6

25 March 1994

Project Operation  
PEST MANAGEMENT PROGRAM

1. Purpose. To establish guidelines and procedures for implementing a Pest Management Program in accordance with the provisions of ER 1130-2-413 and in compliance with federal, state, and local regulations.
2. Applicability. This regulation is applicable to all District team members, particularly Natural Resources Management Branch team members who are managing government lands.
3. References.
  - a. ER 1130-2-413, Pest Control Program for Civil Works Projects, 16 August 1989.
  - b. ER 1130-2-434, Response to Oil and Hazardous Substances Incidents, 1 July 1985
  - c. Public Law 92-516, Federal Insecticide, Fungicide and Rodenticide Act of 1972, as amended.
  - d. Public Law 91-596, Occupational Safety and Health Act of 1970, 29 December 1970.
  - e. Title 40, Code of Federal Regulations, Parts 160 through 180, Environmental Protection Agency (EPA) Pesticides Management Regulations.
  - f. Title 29, Code of Federal Regulations, part 1910, Occupational Safety and Health Administration (OSHA) Regulations.
  - g. Military Handbook, 1028/8A, Design of Pest Management Facilities.
  - h. Georgia State Law, Title 2, Chapter 7, Plant Disease, Pest Control, and Pesticides.

DR 1180-2-6  
25 Mar 94

i. South Carolina State Law, Title 46, Chapter 11, Pest Control Compact, and Chapter 12, Pesticide Control Act.

j. Environmental Review Guide for Operations (ERGO), January 1992.

k. Labor-Management Relations Agreement USACE Savannah District - AFL-CIO Local 2176, May 1991.

l. EM 385-1-1 Safety and Health Requirements Manual, October 1992.

#### 4. Pesticide Program Managers.

The Natural Resources Management Branch Forester will be the District Pesticide Program Manager and will be stationed at the Richard B. Russell Lake Natural Resources Management Center. The District Pesticide Program Manager will answer questions or requests for information from all Operations Division field offices and will maintain a current list of pesticide in use at any Operations Division facility. The District Pesticide Program Manager will review and have approval authority over pesticide use plans submitted by field offices and real estate lessees. He will review actual use records and will periodically spot check application methods for compliance with pesticide label instructions. Each field office will be responsible to coordinate all pesticide activities and information with the District Pesticide Program Manager.

#### 5. Pesticide Management Procedures for Natural Resources Management Field Offices and Other Corps Elements.

a. Field offices will prepare and submit to the District Pesticide Program Manager an annual Anticipated Pesticide Use plan for the upcoming calendar year by 1 December each year. Instructions preparing the Anticipated Pesticide Use Plan are provided in Appendix C of ER 1130-2-413. Appendix C of this regulation presents a suggested format. The District Pesticide Program Manager will review the plans and furnish a letter of approval to the field office by 30 December each year. Pre-approved pesticides are listed in Appendix D of this regulation. The Anticipated Use Plan need not include projected use of pre-approved pesticides.

b. Corps elements and Natural Resources management field offices will also prepare and submit an annual Actual Pesticide Use Report for the previous year to the District Pesticide Program Manager by 30 January of each year. The suggested format for this report, presented in Appendix B, is similar to that of the Anticipated Pesticide Use Plan and will indicate target species, acreage covered, pesticide name, EPA registration number, and a statement of effectiveness if known. Effectiveness may be shown as a percentage of the desired result obtained. Use of pre-approved pesticide will be included in this report. Field offices will maintain of 2 years from the date of use.

c. At the time of each pesticide application, the user, whether Corps employee, lessee or contractor, will record appropriate data including type of pesticide used, date, amount applied, area treated, etc. The Actual Pesticide Use Report Form shown in Appendix B may be used or record keeping may be simplified by using a computer program, Pesticide Tracking System, developed by CENCS-CO-PO. The forms produced by the tracking system are slightly different, but serve the same purpose. The system program and an instruction manual are available through the District Pesticide Program Manager.

d. The District and Project Pesticide Program Managers will meet yearly to review application/monitoring procedures and industry data on pesticide labeling, toxicology, and Material Safety Data Sheets (MSDSs). Suspended, canceled, and restricted use pesticide listings will be reviewed.

#### 6. Real Estate Division Responsibilities.

Real Estate Division will inform holders if each license, lease, easement or permit about district pesticide use and record keeping requirements.

#### 7. Pesticide Application Contracts.

a. Pest control will be accomplished through service contracts whenever possible. Contract specifications will be reviewed for compliance and technical accuracy by the District Pesticide Program Manger may delegate this review and approval authority to the Project Pesticide Manager at his discretion.

b. Contract specifications will include requirements that the contractor provided proof of State certifications for supervisory personnel and all other applicator personnel as applicable. Certification requirements may change as State laws re updated. All contracts will require the pesticide contractor to prepare and submit an Anticipated Pesticide Use Plan for the upcoming year prior to beginning work. This plan will be submitted to projects personnel in adequate time to be included in project's Anticipated Pesticide Use Plan (to be submitted to the District Pesticide Manager by December each year). The contractor will also prepare an Actual Pesticide Use Report. This report will be submitted to the Project Pesticide Program Manager who will review and forward it to the District Program Manager by 30 January of each year. Contract specifications will require the contractor to maintain a record of actual use during the life of the contract. Upon completion of the contract, all actual use record data will be turned over to the Project Pesticide Program Manager.

#### 8. Training.

a. Corps team members whose duties include occasional application of pesticides or the administration or inspection of service contractors that provide the use, application, storage or disposal of pesticides should have, as minimum, State private applicator's license. Georgia and South Carolina have reciprocal license-honoring agreements. For persons who only apply premixed pesticide applicator's license is required.

b. Records of training and certification for Corps team members will be maintained in official personnel files. Certification for contractor personnel will be reviewed by the contract inspection prior to the contractor beginning work and must be maintained by the contractor and be available to the contract inspector or to a state or federal regulator at all times during the contract work period.

#### 9. Restricted Use Pesticides.

Use of restricted use pesticide is prohibited unless given special guidance and approval by the District Pesticide Program Manager.

10. Exposure to and Protection from Pesticide Hazards.

a. While handling, mixing or applying pesticide, precautions specified on the container label and on the product MSDSs will be adhered to at all times. This will include basic health and safety precautions and wearing of protective equipment and clothing. The pesticide applicator employer will provide personal protective equipment for the applicator as required by product labeling. Long pants and long sleeves are not considered personal protective equipment, but are to be provided by the employer for the applicator. The 1992 Worker Protection Standard, 40 CFR Part 170.XXX, requires provision for applicator personal protective equipment (PPE), restricted entry intervals (REI), and posting of treated areas when required by the products label. OSHA Regulation Title 29 CFR Part 1910.134, Respiratory Protection provides guidance for proper use, care, maintenance, and record keeping for respirator use.

b. Employers are also to provide a decontamination site for washing off pesticides and pesticide residues. Sufficient portable water, soap and single use towels will be available to meet applicator's needs. A clean change of clothing per applicator must also be available. In remote areas, clean water from streams or laked may be used for decontamination. A change of clothing, soap, and towels should be kept in the applicator's vehicle. Pesticide applicators should shower and put on clean clothes as part of the end of their work day.

c. MSDs shall be obtained for each pesticide and adjuvant prior to use. MSDs will be reviewed by Corps and contractor applicator personnel before pesticide use and should be reviewed annually before beginning the season's application. MSDs shall be readily available to field office employees at each Corps field office and MSDs will be readily available to contractor's applicators at the application site and to contractor personnel at the contractor's facility. The contractor must maintain MSDs for materials that the contractor will use. The Corps element or Natural Resources Management field offices must maintain records for materials used by Corps and contractor personnel.

d. A copy of each MSDs for pesticides used by Corps employees or contractor personnel at any field office will be provided to the District Pesticide Program Manager prior to use

DR 1130-2-6  
25 Mar 94

of that pesticide. The District Pesticide Program Manager will maintain a master file of MSDs at the Richard B. Russell Natural Resources Management Office. A copy will also be provided to the provided to the District Safety Office (SO) for use in maintaining a hazardous materials inventory.

e. Corps office managers shall determine if and which Corps employees will be pesticide applicators. ER 1130-2-413 requires that medical surveillance be maintained for Corps pesticide applicators. It also provides guidance for determining which tests will be performed during each physical examination. Medical surveillance will be coordinated through the Safety Office who will provide forms for application for the examinations. Baseline, annual, and preterminations examinations are required. The SO will document team member pesticide exposure and provide records of exposure to the occupational health clinic doing the examinations. Copies of these records will be maintained in the employee's official personnel file

#### 11. Mixing, Storage, and Disposal.

a. Resource managers, including powerplant superintendents or the engineer depot manager, will determine the degree of involvement of their projects with pesticide storage and mixing facilities. Such facilities are described in MIL-HDBK-1028/8A. Where managers determine that pesticide use and storage of pesticides appropriate for their project, minimal project facilities will meet criteria specified in Appendix A. Off-project, contractor-owned storage and mixing facilities are not subject to Appendix A requirements. Corps and contractor vehicles used to transport pesticides will be equipped with spill kits.

b. Application and disposal procedures will be in accordance with labeling federal , and state regulations. Whenever possible, disposal of excess pesticides will be accomplished through the proper use of the pesticide and container reinsert. Empty containers will be triple rinsed and punctured to prevent alternative use. Disposal procedures will be in accordance with labeling, federal, and state hazardous waste regulations. Container recycling has been initiated in Georgia and South Carolina, and my be available in the Savannah District area in the near future.

c. All pesticide spills will be contained and reported in accordance with the field office's Spill Contingency Plan and with the District's Oil and Hazardous Material Spill Plan (ER 1130-2-434). Emergency telephone numbers related to Pesticide use are listed in Appendix E. Regulations controlling pesticide use are in transition toward increased restrictions. The EPA will, in the near future, require pesticide labels to address protection for endangered species. The Georgia Department of Agriculture has adopted RULES OF GEORGIA DEPARTMENT OF AGRICULTURE PESTICIDE USE AND APPLICATION, Chapter 40-21-9, Application Posting, requiring posting of signs on area treated with pesticides. The pesticide user on federal lands is responsible for compliance with current Corps, state, and federal regulations.

12. Integrated Pest Management.

The overall objective of the pest and vegetation control program will be to integrate the use of chemical, biological, and mechanical methods to reduce and control pest insect populations and undesirable vegetation to acceptable levels with minimal adverse impacts on the biological diversity and environmental quality of the affected area. Use of pesticide will be minimized whenever possible. The District and Project Pesticide Program Management will assure that this objective is achieved by staying abreast of current integrated pest management technology. This will be done through interaction with county extension agents, and by attendance at local and regional seminars, and workshops at universities.

5 Appendixes  
App A, Pesticide Facilities  
App B, Actual Pesticide use  
Report  
App C, Anticipated Pesticide  
Use Plan  
App D, List of Preapproved  
Pesticides  
App E, Reference Telephone Numbers

/s/  
WANE W. BOY  
Colonel, Corps of Engineers  
Commanding

DISTRIBUTION: C & D  
CESAS-OP-R (3)  
CESAS-RE-MC (1)

## APPENDIX A

### Pesticide Facilities

PESTICIDE STORAGE. Pesticide should not be stored outside. The storage facility must be lockable. The storage area should be a standalone building, if possible, but if pesticide storage is within a building used for other purposes, the pesticide storage area should be separated by partitions from other functions. The facility should be isolated from other functions, out of the main flow of traffic, away from areas where spills might flow into drainage's or onto a flood plain.

The outside of the storage area should be protected from vehicular damage with a barricade. Metal guard posts placed on the ground adjacent to sides of the building accessible to vehicles will provide protection. Curbing, either concrete or crossties, placed on the ground around the storage area will also provide protection.

The storage area or building will have a warning sign stating "Pesticide Storage." Inside the storage area, aisles should be at least 36" wide to allow easy access. Pallets and shelving of wood should not be used because they are absorbent. If wood is used, it should be painted or otherwise treated to make it nonabsorbent. Pallets and shelving made of wood will be replaced by 1998 by those made of nonabsorbent materials. All pesticides should be stored off the floor on nonabsorbent pallets. Container labels will be visible. MSDs should be readily available. The building should have an impermeable floor with a 4" high curbing either inside or outside the building. Concrete floors should be sealed to prevent absorption. No drains or holding tanks are required.

DR 1130-2-6  
App A  
15 Mar 94

Storage area temperatures should be maintained between 35 degrees F. and 100 degrees F. Maintaining the temperature within this range will prevent deterioration of pesticides. No carryover of pesticides through winter months would eliminate maintain a minimum temperature for that period. The high temperature limit may be provided with lower wall vents and wind-driven roof turbine vents. A general guide of 2 square inches of roof vent and lower wall ventilation area per square foot of floor space should [provide adequate ventilation.

OTHER REQUIREMENTS. Windows, if any, are to be lockable. A "No Smoking" sign will be visible upon entering the building. An eye lavage and drain should be accessible within or just outside the storage area. Pesticide containers large enough to have dispensing faucets shall have self-closing faucets of UL-approved design. If power pumps or hand pumps re used to dispense pesticides, an anti-siphon (back flow prevention) valve will be in the system to prevent any back flow pesticides. Pesticides and herbicides will be stored separately.

Electrical fixtures or equipment may be used but is not required. All electrical equipment will meet requirements of MIL-HDBK-1028/8 paragraph 3.6.

PESTICIDE MIXING. Mixing may be done on site. Vehicles carrying pesticides will have spill kits. If permanent project mixing facilities are constructed, design will follow MIL-HDBK-1028/8 guidance

APPENDIX B

Actual Pesticide Use Report

CONTRACTOR	APPLICATOR'S NAME	DISTRICT
_____	_____	_____
Address:	Address:	
_____	_____	_____
_____	_____	OFFICE
Phone:	Phone:	
_____	_____	_____
Pest Description	_____	

Date of Applic.	Time of Day	Air Temp	Relative Humidity	Cloud Cover	Wind Direction and Speed	Acreage Treated
_____	_____	_____	_____	_____	_____	_____

Description of treated area: \_\_\_\_\_  
Pesticide Used: (Trade Name) \_\_\_\_\_  
Form Applied: \_\_\_\_\_  
Active Ingredient: \_\_\_\_\_  
EPA Registration Number: \_\_\_\_\_  
EPA Classification: \_\_\_\_\_

How the Pesticide Was Mixed: (Formulation) \_\_\_\_\_  
Application Equipment Used: \_\_\_\_\_  
Amount Applied: \_\_\_\_\_  
Effectiveness: \_\_\_\_\_  
Justification if RESTRICTED USE pesticide is used: \_\_\_\_\_

Was there any pesticide left over? \_\_\_\_\_ Kept for future use: Y/N \_\_\_\_\_  
Method of Disposal: \_\_\_\_\_

Disposal Date: \_\_\_\_\_

Additional Remarks: \_\_\_\_\_  
\_\_\_\_\_

APPENDIX C

Anticipated Pesticide Use Plan

FIELD  
OFFICE: \_\_\_\_\_ DISTRICT: \_\_\_\_\_

CALENDAR  
YEAR: \_\_\_\_\_ DATE: \_\_\_\_\_

=====

PESTICIDE TRADE NAME	EPA CLASS	EPA REG NO
----------------------	-----------	------------

\_\_\_\_\_  
PEST TARGET \_\_\_\_\_

LOCATION  
DESCRIPTION \_\_\_\_\_

TOTAL ESTIMATED QUANTITY \_\_\_\_\_ TOTAL ESTIMATED ACREAGE \_\_\_\_\_

=====

PESTICIDE TRADE NAME	EPA CLASS	EPA REG NO
----------------------	-----------	------------

\_\_\_\_\_  
PEST TARGET \_\_\_\_\_

LOCATION  
DESCRIPTION \_\_\_\_\_

TOTAL ESTIMATED QUANTITY \_\_\_\_\_ TOTAL ESTIMATED ACREAGE \_\_\_\_\_

APPENDIX D

List of Pre-approved Pesticides

Use of the pesticides listed below does not require submittal in the Anticipated Pesticide Use Plan when used in accordance with the manufacturer's instructions. Documentation and record keeping in the Actual Pesticide Use Report will be required. Storage of pre-approved pesticides are not subject to Appendix A, also, the Georgia posting law does not apply to the pre-approved pesticides.

<u>Insecticide Trade Name:</u>	<u>Target Pest</u>
AMDRO	Fire ants
DIAZINON (Granules and liquids)	Fire ants, common ants
DURSBAN	Common ants
MALATHION	Insect infestations on shrubs
SPECTRACIDE	General insecticide
SEVIN	Leaf cutting insects
ORTHENE	Scales, bagworms, tent caterpillars
FUSILADE	Spider mites on shrubs
PERMANONE TICK REPELLENT	Ticks and chiggers
ORTHO HORNER AND WASP KILLER	hornets and wasps

DR 1130-2-6  
App D  
25 Mar 94

Herbicide Trade Name

Target Pest

DACONIL

Fungicide (powdery mildew  
On shrubs)

ROUND-UP

Annual and perennials  
(Kudzu, poison ivy)

RODEO

Annuals and perennials

APPENDIX E  
Reference Telephone Numbers

NOTE: Emergency telephone numbers are located in the Spill Contingency Plan. A copy of the plan should be located at each potential spill site (including the pesticide storage and mixing locations). A master copy is held on file at the natural Resources Management Center,

**SPILL REPORTING EMERGENCY:**

NATIONAL RESPONSE CENTER 800-424-8802

Information Numbers

Department of Defense Pesticides HOTLINE 410-671-3773

EPA HOTLINE 800-531-7790

CHEMTREC 800-424-9300

Clemson University Entomology Department 800-656-3111

University of Georgia Entomology Department 706-542-2816

Poison Control Centers

ATLANTA POISON CONTROL 404-616-9000  
800-282-5846

AUGUSTA POISON CONTROL 800-922-1117

Augusta Poison Control, now located in Columbia, SC, includes all of EMS Region 6 (all of South Carolina and Part of Georgia)

SAVANNAH POISON CONTROL 912-355-5228