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GRC Environmental Programs Manual—Chapter 18

Pest Control

Approved by: Energy and Environmental Management Office Chief

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Cleveland, OH 44135**

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Change Record

Revision	Effective Date	Expiration Date	GRC-25, Change Request #	Description
A	4/2015	4/2020		<ul style="list-style-type: none"> • Updated the name of the Safety, Health and Environmental Division (SHED) to the Safety and Health Division (SHeD) throughout the document • 8.0 Changed the 40 CFR Parts 150-189 to 150-180 • 5.1 Removed “Responsible for storing, mixing, transporting, and applying pesticides” and “Verifies the appropriate training of pesticide applicators and maintains pesticide applications, training records, and records of dates of physical examinations” • Added “Responsible for locating an insured party for pesticide application at LF” added “Maintains records of pesticide applications at LF which include: date, type of pesticide used, and amount applied” • 5.2 Removed “Responsible for storing, mixing, transporting, and applying pesticides” and “Verifies the appropriate training of pesticide applicators and maintains pesticide applications, training records, and records of dates of physical examinations” • added “Responsible for hiring an insured party for pesticide application at PBS” added “Maintains records of pesticide applications at PBS which include: date, type of pesticide used, and amount applied” <p>Removed section 5.3 FIFRA Program Lead.</p> <ul style="list-style-type: none"> • Audits the pesticide application program for compliance with FIFRA in December of every year • Notifies the National Environmental Policy Act (NEPA) Program Lead of any significant plans to alter the pesticide or herbicide application program <p>Not applicable. This is required for if you are selling or producing pesticides.</p> <p>All other sections moved up accordingly.</p> <p>Updated all form links to reflect the NASA Electronic Form portal. Corrected several form names.</p>
B	3/16/2016	3/16/2021	2016-1	<p>Edited to reflect Occupational Health Branch roles as suggested by Lead Safety and Occupational Health Manager and;</p> <p>Removed FIFRA audit records, as FIFRA is only applicable to companies selling or producing pesticides.</p>

***Include all information for each revision. Do not remove old revision data. Add new rows to table when space runs out by pressing the tab key in the last row, far right column.*

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Chapter 18.—Pest Control

NOTE: This chapter is maintained and approved by the Energy and Environmental Management Office (EEMO). The current version is maintained on the Glenn Research Center internet at <http://www.grc.nasa.gov/WWW/FTD/EEMO/index.html>. Approved by: Chief of Energy and Environmental Management Office.

1.0 PURPOSE

This chapter establishes policies and procedures for dealing with the chemical and biological control of pests at the NASA Glenn Research Center (GRC) at Lewis Field and Plum Brook Station.

2.0 APPLICABILITY

The guidance provided in this chapter applies to all employees (civil servants, support service contractors, tenant organizations, or other employees) who are involved in the management of pests at GRC or at any NASA-controlled, Government-owned facilities associated with GRC.

3.0 BACKGROUND

The Federal Government first regulated pesticides when Congress passed the Insecticide Act of 1910. This law was intended to protect farmers from adulterated or misbranded products. Congress broadened the Federal Government's control of pesticides by passing the original Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) of 1947. FIFRA required the Department of Agriculture to register all pesticides prior to their introduction in interstate commerce. A 1964 amendment authorized the Secretary of Agriculture to refuse registration to pesticides that were unsafe or ineffective and to remove them from the market. In 1970, Congress transferred the administration of FIFRA to the newly created Environmental Protection Agency (EPA). This initiated a shift in the focus of Federal policy from the control of pesticides for reasonably safe use in agricultural production to control of pesticides to reduce unreasonable risks to man and the environment. This new policy focus was expanded by the passage of the Federal Environmental Pesticide Control Act of 1972 (FEPCA), which amended FIFRA by specifying methods and standards of control in greater detail. Subsequent amendments have clarified the duties and responsibilities of the EPA.

Under FIFRA, no one shall sell, distribute, or use a pesticide unless it is registered by the EPA. Registration includes approval by the EPA of the pesticide's label, which must give detailed instructions for its safe use. The EPA must classify each pesticide as either "general-use," "restricted-use," or both. General-use pesticides may be applied by anyone, but restricted-use pesticides shall only be applied by certified applicators or persons working under the direct supervision of a certified applicator. Applicators are certified by the State of Ohio Department of Agriculture.

4.0 POLICY

It is a goal of GRC to exercise integrated pest management practices whenever pest control is necessary. It is a goal of GRC to minimize the storage, use, and disposal of pesticides onsite. Pesticide use at GRC shall be exercised with a goal of minimizing both human exposure and adverse environmental impacts. GRC shall store, apply, transport, and dispose of pest control materials according to all applicable Federal, state, and local statutes.

5.0 RESPONSIBILITIES

5.1 Lewis Field's Facilities Operations and Maintenance Contractor's Business Management/Site Safety Manager

- Oversees the pest control program at Lewis Field
- Responsible for locating an insured party for pesticide application at LF
- Maintains records of pesticide applications at LF which include: date, type of pesticide used, and amount applied"
- Notifies Safety and Health Division (SHeD) Operations Team industrial hygienists prior to using any new restricted-use pesticide or herbicide onsite

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- Notifies the Occupational Health Branch when there is a need to apply pesticides to control bed bugs, cockroaches, and other public health and sanitation related pests

5.2 Plum Brook Station Code H Support Service Contractor

- Manages the pest control program at Plum Brook Station
- Responsible for hiring an insured party for pesticide application at PBS
- Maintains records of pesticide applications at PBS which include: date, type of pesticide used, and amount applied
- Notifies the Occupational Health Branch when there is a need to apply pesticides to control bed bugs, cockroaches, and other public health and sanitation related pests

5.3 Occupational Health Branch (OHB)

- Review the potential human health impacts of proposed new use of registered pesticides at GRC
- OHB will review and approve Job Hazard Analysis (JHA)

5.4 NEPA Program Lead

- Analyzes proposed alterations to the pesticide or herbicide application program for environmental impacts
- Recommends and advises actions that will lead to achieving goals and regulatory compliance

5.5 The Facilities Operations and Maintenance Contractor’s Contracting Officer’s Representative (COR) (Lewis Field) and the Code H COR (Plum Brook Station)

- Responsible for issuing work orders to their contractor for pesticide applications

5.6 Pesticide Applicator

- Completes records of pesticide applications after each application of herbicides or pesticides (The records shall include the applicator’s name, date, area of application, product applied, equipment used, and weather conditions.)
- Follows the product’s manufacturer’s usage instructions

6.0 REQUIREMENTS

6.1 Federal Pesticide Procedural Requirements (*40 Code of Federal Regulations (CFR) Parts 150 to 189 and 7 United States Code (U.S.C.), section 136 et seq.*)

The Federal Pesticide Procedural Requirements form the basis for Federal pesticide legislation that addresses the manufacture, transport, application, storage, and disposal of pesticides. As it applies to GRC, the requirements mandate that pesticides be applied, stored, internally transported, and disposed of as indicated on the products’ labels. Pesticides shall be stored indoors in a locked, gated area. Liquid pesticides shall be stored in a flammable liquid cabinet with secondary containment. Mixing of pesticides shall be performed in an area that can contain spills. Empty pesticide containers at GRC shall be rinsed according to the manufacturer’s instructions. Rinsed cans shall be disposed of through the GRC260a waste disposal process.

6.2 State Procedural Requirements (*Ohio Revised Code, Chapter 921*)

The Ohio Revised Code (ORC) defines the Ohio pesticide law and provides for the registration of pesticides, the licensing of applicators, and pesticide application records in Ohio. Pesticide applicators employed by Lewis Field’s Facilities Operations and Maintenance Contractor shall be licensed by the Ohio Department of Agriculture. Offsite contractors who apply pesticides at Lewis Field shall employ applicators who are licensed by the Ohio Department of Agriculture.

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6.3 Requirements for Safety and Health Standards (29 CFR 1910.106, 29 CFR 1910.1200, and NFPA-434)

The Occupational Safety and Health Administration (OSHA) and National Fire Protection Association (NFPA) regulations pertaining to pesticides define how certain pesticides are to be stored and how the health hazards of pesticides must be communicated to employers and employees.

7.0 RECORDS

The Lewis Field’s Facilities Operations and Maintenance Contractor’s Business Management/Site Safety Manager maintains the following records for Lewis Field and the Code H Support Service Contractor maintains the following records for Plum Brook Station.

- Pesticide applications records
- Training records
- Dates of physical examinations .

8.0 REFERENCES

Document number	Document name
7 U.S.C., section 136 et seq.	Federal Environmental Pesticide Control Act of 1972
40 CFR Parts 150–180	The Federal Insecticide, Fungicide, and Rodenticide Act
NFPA–434	Requirements for the storage of pesticides
ORC Chapter 921	Ohio Pesticide Code

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APPENDIX A.—DEFINITIONS AND ACRONYMS

Code of Federal Regulations (CFR)

Contracting Officer’s Representative (COR)

Environmental Protection Agency (EPA)

Federal Environmental Pesticide Control Act of 1972 (FEPCA)

Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA).—Broadened the Federal Government’s control of pesticides in 1947.

General-use pesticides.—Environmental Protection Agency’s designation for pesticides that may be applied by anyone.

Integrated pest management.—A coordinated approach to pest control intended to prevent unacceptable levels of pests, while causing the least possible hazard to people, property, and the environment and using the most cost-effective means.

NASA Glenn Research Center (GRC)

National Environmental Policy Act (NEPA)

National Fire Protection Association (NFPA)

Occupational Safety and Health Administration (OSHA)

Ohio Revised Code (ORC)

Pest.—A harmful, destructive, or nuisance insect, fungus, rodent, nematode, bird, snail, weed, or parasitic plant or a harmful animal species that the state director of agriculture, or his authorized representatives, declares to be a pest, except viruses, bacteria, or other microorganisms on or in living animals, including man.

Restricted-use pesticides.—Environmental Protection Agency defines restricted-use pesticides as those which may cause adverse effects on the environment, and/or the applicator, unless subject to additional regulatory restrictions. They will generally be available only to certified applicators.

Safety and Mission Assurance Directorate (SMAD)

Safety and Health Division (SHeD)

United States Code (U.S.C.)

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