

ENVIRONMENTAL MANAGEMENT PROGRAM

1. PROGRAM NAME: NIEHS Hazardous Waste Management Program

2. Significant Environmental Aspect(s):

Hazardous Waste

3. Document Control Code: EMP-2007-HazWaste

4. Date: 11/23/2007

5. Program Lead: Paul Johnson – HSB Hazardous Waste Manager

6. Goals and Objectives

Five-year Goals(s):

Annual Objective(s):

Performance Indicator(s)

Resource requirements

Reduce hazardous waste stream generation poundage from a 2007 baseline by encouraging efficient procurement of research chemicals, careful research planning, and the consideration of non-hazardous chemical alternatives

Maintain compliance with the NC Hazardous Waste Permit

Results of regulatory compliance inspections and internal compliance audits

Current resources

Maintain and Promote institute Waste Minimization Program

Percentage of regulated waste resulting from research and support activities

Current resources

7. Reason(s) for Significance:

Health & safety impact
Cost
Legal Liability

8. Potential Environmental Impacts:

Land contamination; exposure to human and animal populations.

9. Legal and Other Requirements (Specify):

EPA and N.C. Hazardous Waste Regulations.

10. Program Description:

Hazardous waste resulting from laboratory research and mission support functions is collected on a daily basis and managed at the NIEHS/EPA Waste Handling Facility (WHF), Building 108. Waste that is regulated by EPA must be stored, treated, and/or disposed according to EPA's Resource Conservation and Recovery Act (RCRA). Regulated hazardous waste must be shipped offsite for ultimate treatment and disposal at a cost to the government. Slightly less than half (approximate %by weight) of the waste managed by the Hazardous Waste program is regulated by the EPA and has to be shipped offsite for treatment and/or disposal.

11. Operational Controls

Activity	Controls	Responsible Position/Group	Monitoring	Records	Comments
Laboratory research projects involving hazardous chemicals (hazardous waste).	Review and approval of health and safety research protocols; Waste Manual, Section B- Chemical Waste; Health and Safety Manual, Chapter 6- Hazardous Waste Disposal;	HSB Safety Officer HSB Hazardous Waste Manager HSB Safety Officer	Program Reviewed Annually Periodic lab inspections	Protocol documents and protocol database	
Laboratory research projects involving hazardous chemicals and radioactive material (mixed/radioactive waste)	Waste Manual Section E- Multi - Hazard Waste, Part E- Hazardous Chemical- Radioactive Waste	HSB Hazardous Waste Manager HSB Radiation Safety Officer	Program Reviewed Annually Periodic lab inspections	Protocol documents and protocol database	
Laboratory research projects involving hazardous chemicals and medical/pathological materials (mixed hazardous/pathological waste)	Waste Manual Section E- Multi - Hazard Waste, Part C- Hazardous Chemical- Medical/Path Waste	HSB Hazardous Waste Manager	Program Reviewed Annually Periodic lab inspections	Protocol documents and protocol database	
Laboratory research projects involving hazardous chemicals and medical/pathological and radioactive materials (mixed chem./rad/path waste)	Waste Manual Section E-Multi- Hazard Waste, Part D- Hazardous Chemical/Medical/Path/ Radioactive Waste	HSB Hazardous Waste Manager HSB Radiation Safety Officer	Program Reviewed Annually Periodic lab inspections	Protocol documents and protocol database	

Preparation, packaging and transport of hazardous waste from research laboratories to the Building 108 Waste Management Facility	Waste Manual Sections B & E- Chemical Waste and Multi-Hazard Waste Hazardous Waste Permit Hazardous Waste Management SOP	HSB Hazardous Waste Manager HSB Hazardous Waste Specialist		Hazardous Waste Database – Waste Management Records and Reports	
Storage of Hazardous Waste materials pending disposal	Hazardous Waste Permit MOU between NIEHS and EPA on Building 108 Operations	HSB Hazardous Waste Manager	Daily and Weekly inspections	Hazardous Waste Database – Waste Management Records and Reports	
Onsite incineration of non-RCRA regulated hazardous wastes	MOU between NIEHS and EPA on Joint Use of the Incineration Plant (Bldg 106) NC DENR DAQ Air Quality Permit	NIH/ORF Project Officer for the NVT contract HSB Environmental Compliance Officer		Incineration Inventory	
Offsite shipment and disposal of hazardous waste	MOU between NIEHS and EPA on Building 108 Operations Hazardous Waste Management SOP's Contract for the Disposal of Hazardous Waste- Statement of Work	HSB Waste Manager HSB Hazardous Waste Specialist Hazardous Waste Management & Disposal Contract Project Officers	Annual Inspections Continuous compliance monitoring Periodic Disposal Facility Audits	Hazardous Waste Database – Waste Management Records and Reports NCDENR Biennial Report Shipment Manifests Certificates of Disposal/ Destruction	

12. Action Plan: Structure, Authorities, Responsibilities		
Targets/Milestones to meet Annual Objectives	Timeframe	Responsible Party/ Job Function
Conduct internal audit(s) of Building 108 operations	Weekly	Hazardous Waste Manager / HSB
Conduct internal audit(s) of air quality compliance	Annual	Environmental Compliance. Officer / HSB
Provide annual introductory training on institute waste management policies and procedures.	Annual	Hazardous Waste Manager / HSB
13. Relevant Document(s)		
Document Name	Location	File Custodian
NIEHS Waste Manual	Web	Hazardous Waste Manager / HSB
North Carolina DENR Hazardous Waste Permit	Electronic/Hardcopy	Hazardous Waste Manager / HSB
MOU between NIEHS and EPA on Building 108 Operations	Electronic/Hardcopy	Hazardous Waste Manager / HSB
MOU between NIEHS and EPA on Joint Use of the Incineration Plant (Bldg 106)	Electronic/Hardcopy	NIH/ORF Project Officer for the NVT contract
NIEHS Health & Safety Manual	Web-based	Safety Officer / HSB
Hazardous Waste Management Standard Operating Procedures	Electronic/Hardcopy	Hazardous Waste Manager / HSB
14. Competence of persons responsible		
Title	Basis for Competence	
HSB/Hazardous Waste Manager/Project Officer	Professional level education and experience	
HSB/Hazardous Waste Specialist/Project Officer	Professional level education and experience	
HSB/Safety Officer	Professional level education and experience	
NIH/ORF Project Officer	Professional level education and experience	
HSB/Radiation Safety Officer	Professional level education and experience	
HSB/Environmental Compliance Officer	Professional level education and experience	
15. Authorization		
Name / Signature:	William K. Steinmetz	
Date:	November 29, 2007	