ENVIRONMENTAL MANAGEMENT INITIATIVE				
1. Initiative Name: Waste Diversion Program	1.a. Environmental Management P Air Emissions Solid Waste			
2. Initiative Lead: Bill Steinmetz	3. Document Control Code: EMI-2007-Waste Diversion	4. Date: October 22, 2007		

5. Initiative Description:

This initiative involves the review of the NIEHS incinerated waste streams as part of an effort to seek an exemption from new rules that will affect the multi-purpose (ES-106-6) incinerator. Incinerators must burn materials that are defined as 90% or greater pathological waste by weight or be subject to new regulatory requirements. Pathological waste includes animal bedding, animal carcasses, and materials that have come in contact with animal tissue such as plastic lab ware. The remaining waste is considered to be non-pathological. Most of this waste must be diverted to offsite sources, such as landfills, rather than incinerated in order to receive an exclusion from the rule. As such, the NIEHS plans to seek reuse and recycling opportunities to reduce the amount of non-pathological waste that must be sent to the landfill.

6. GOALS AND OBJECTIVES

2008/2009 Objective(s):	Performance Indicator(s)	Resource requirements	
 Establish reuse and recycling programs for specific materials within waste streams that can no longer be incinerated 	 Reuse and recycling programs are established or enhanced during the 2008 calendar year 	Current resources	
 Remove animal care clothing from the incinerated waste stream 	 Reuse or recycle 100% of the polypropylene protective clothing worn in the animal care facilities using 2007 data as the baseline 	 Current resources 	
 Establish program to increase recycling of lab plastics 	 Increase recycling of lab plastics, that were formerly incinerated, by 75% over next two years, using the 2007 waste stream review as a baseline 	Current resources	

7. Significant Environmental Aspect(s):

Air Emissions Solid Waste

8. Reason(s) for Significance:

a. Legal and regulatory requirements

b. Potential environmental impact

9. Legal and Other Requirements:

State: 15A NCAC 2D .1211 Other Solid Waste Incineration Units (adopted from: 40 CFR Part 60, Subpart FFFF Other Solid Waste Incineration Units)

10. Potential Environmental Impacts:

Increased landfill disposal of solid waste materials

11. ACTION PLAN:

Targets/Milestones to Meet Initiative Objective(s)	Expected Frequency / Completion Date	Responsibility
Review waste streams and categorize types of materials that are incinerated in the multi-purpose incinerator	4 th Quarter 2007	Environmental Compliance Officer / HSB Hazardous Waste Manager / HSB
Select specific waste types to evaluate for reuse and recycling opportunities.	1 st Quarter 2008	Environmental Compliance Officer / HSB Quality Assurance Specialist / ORF
Establish reuse / recycling programs for selected waste types	4 th Quarter 2008	Environmental Compliance Officer / HSB Quality Assurance Specialist / ORF
Develop education programs for affected work groups	4 th Quarter 2008	Environmental Compliance Officer / HSB Hazardous Waste Manager / HSB

12. OPERATIONAL CONTROLS

Activity	Controls	Responsible Persons	Monitoring	Records	Comments
Laboratory research activities generating various types of solid waste for disposal through incineration	Waste Manual Waste Minimization Plan HSB Approval of Laboratory Research	HSB / Hazardous Waste Manager HSB Safety Officer Principal Investigators	Periodic lab inspections Program reviewed annually	Protocol documents	

	Protocols					
Other mission	Waste Manual	HSB / Hazardous		Incinerated waste	Weight of	
supporting activities		Waste Manager		stream monitored	recycled	
generating solid waste	Recycling Guide	ASAB / Employee		for unacceptable	materials	
that may enter the		Services Specialist		materials		
incinerated waste	QA Guidelines:	NVT Incinerator				
stream	Building 106	Operators				
	Incineration Program	Employees disposing				
Incineration of	NCDAO Air Ovality	solid waste		Operational	Duilding 100	
Incineration of	NCDAQ Air Quality Permit	ORF/FOB NVT		Operational	Building 106 Incinerator data	
medical, chemical and other solid waste	QA Guidelines:	Project Officer		parameters are continuously	acquisition	
generated by	Building 106	NIV/T Operations		monitored and	system	
NIEHS/EPA research	Incineration Program	NVT Operations Supervisor		routinely recorded	System	
activities	Incincration rogiam	Oupervisor		Toutinely recorded	NVT Incinerator	
donvinos	MOU between the	NVT Utility &		Visible emissions	Operator	
	NIEHS and the EPA	Incinerator Operato		evaluation	logbooks	
	for Joint Use of the					
	Incineration Plant	HSB / Hazard	dous		Environmental	
	(Bldg. 106)	Waste Manag	ger		Compliance	
					Officer	
	Operations and	HSB / Enviro			logbooks	
	maintenance manual	Compliance	Officer			
13. RELEVANT DOCUMEN						
	Document Name			Location Document Custodian		nt Custodian
NCDAQ Air Quality Permit				copy / electronic	Environmental Compliance Officer / HSB	
NIEHS Waste Manual			Web-	based	Hazardous Waste Manager / HSB	
NIEHS Health & Safety Manual			_	based	Safety Officer / HSB	
NIEHS Waste Minimization Plan			Hardo	copy, electronic	Hazardous Waste Manager / HSB	
North Carolina Hazardous Waste Permit				copy, electronic	Hazardous Waste Manager / HSB	
MOU between EPA & NIEHS for joint use of Incineration Plant				copy, electronic	NVT project officer / ORF/FOB	
NIEHS Recycling Guide			Hardo	copy, web-based	Employee Service Support Specialist/ ASAB	
14. EMS REVIEW						
Name: William K. Steinmetz			Signatur	e:		Date: 12/04/2007