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NEMS ENVIRONMENTAL MANAGEMENT PROGRAM

PROGRAM NAME:	Energy and Water Management Program	m		
SIGNIFICANT ENVIRONME	NTAL ASPECT(S):	DOCUMENT NUMBER:	EMS.EMP.10.2006.BALT	
Energy and water consump	tion	DATE REVISED:	11.20.2006	
		REVISION NUMBER:		
		SUNSET DATE:		
		PROGRAM LEAD:	Scott Koehler	
SECTION 1 – PROGRAM DI	ESCRIPTION			
Energy and water consumption are regulated in EPAct 2005, as well as EO 13123. NIH as an Agency has developed energy and water management programs. NIA and NIDA is working towards developing programs consistent with Agency plans. The Energy and Water Management Program is designed to help NIH Baltimore improve the way energy and water use and consumption is managed at the facility. It provides a mechanism to set goals and objectives to meet associated legal and other requirements as well as engage senior management for their support. An effective Energy and Water Management Program has the potential to reduce costs to the facility, while reducing their environmental footprint.				
SECTION 2 – GOALS AND (D BJECTIVES			
GOAL: Justification:		Performance Indicator(s):		Resource requirements:
		Performance Indicator(s):	D 21.2124	
A. Objective: Upgrade towers in the GRC	to more energy efficient chillers and	reflormance indicator(s):	Responsibility: Scott Koehler	Timeframe:
9 10		Performance Indicator(s):	1	Timeframe: Timeframe:
towers in the GRC - Target/Milestone		Performance Indicator(s):	Scott Koehler	
towers in the GRC - Target/Milestone SECTION 3 – PROGRAM DI REASON(S) FOR SIGNIFICA	ESCRIPTION, SIGNIFICANCE, IMPACTS A NCE: This aspect represents a sign This aspect has the potential This aspect is important to N This aspect has the potential consumption	Performance Indicator(s): ND REQUIREMENTS ificant cost to NIH to impact the environment the IH's relationship to the local	Scott Koehler	Timeframe:
towers in the GRC - Target/Milestone SECTION 3 – PROGRAM D	ESCRIPTION, SIGNIFICANCE, IMPACTS A ANCE: This aspect represents a sign This aspect has the potential This aspect is important to N This aspect has the potential consumption TAL/ Financial costs	Performance Indicator(s): ND REQUIREMENTS ificant cost to NIH to impact the environment the IH's relationship to the local	Responsibility: rough natural resource consumption community and the public at large	Timeframe:



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	Public image/community relations	
	Greenhouse gas contribution	
	 Air pollution (smog, acid rain, dust, visual impairment) 	
LEGAL AND OTHER	Energy	
REQUIREMENTS:	■ EPACT 2005CWA	
	■ EO 13123: Efficient Energy Mgmt.	
	■ EO 13221: Energy Eff. Standby Power Devices	
	Presidential Directive on Energy & Fuel Conservation	
	■ FAR Subpart 23.2	
	DHHS goals and guidance	
	MOU on High Performance and Sustainable Buildings	
	Water	
	■ EPACT 2005	
	■ EO 13123	
	MOU on High Performance and Sustainable Buildings	
	DHHS goals and guidance	

SECTION 4 – OPERATION	AL CONTROLS				
ACTIVITY(IES) THAT GIVES RISE TO ASPECT	CONTROL(S)	RESPONSIBLE PERSON	MONITORING	RECORDS	ACTION TAKEN IF CONTROL FAILS
Animal Husbandry	CMS SOP BookTerms of contract	•	•	•	•
Benchtop Lab Equipment Use		•	•	•	•
Cage Washing	CMS SOP BookTerms of contract	•	•	•	•
Chemical, Biological and Radioactive Isotope Use, Storage, Disposal	NIA/ NIDA safety orientation and annual refresher courses	•	•	•	•
and Transportation	PI Compliance				



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	Statement				
DI System (Deionized		•	•	•	
Water)	•				
Equipment Cooling		•	•	•	•
(Direct or Indirect)	•				
,	 Fume hood usage 	•	•	•	•
Fume Hood Use	training		A	4	
Imaging (x-ray)	•	•	-	- I	•
Janitorial services	■ Terms of contract	•	•	•	•
Lab maintenance		•		•	•
services (electrical,					
painting, plumbing)	•				
Maintenance of fire		•	-	•	•
equipment and systems	•				
Operation and		•	•	•	•
Maintenance of HVAC					
Systems	 O&M Manual 				
Operation of Central		- / /	-	•	•
Utility Plant (Chillers,					
Boiler, Cooling Towers)	O&M Manual				
Use of electromagnetic		•	•	•	•
radiation equipment	•				
	Routine	•	•	•	•
Use of emergency	operational testing				
generators	of generators				
Use of Office			•	•	•
Equipment					
Procurement of Chemicals	and Pharmaceutical pro	ducts			
DOCUMENT NAME		LOCATION		RESPONSIBLE	PERSON
Contract with Quitlabs					
NIH Chemical Hygiene Pl	an				

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NIH Manual Chapter 3034: Working with		
Hazardous Materials		
NIH Manual Issuance 3032, Waste Minimization	http://www1.od.nih.gov/oma/manualchapters	
and Management at NIH		
NIH Policy on HVAC systems		
NIH Policy on purchase of Energy Star		
equipment		
NIH Waste Disposal Guide	http://orf.od.nih.gov/Environmental+Protection/Wast	
	e+Disposal/	
NIH Radiation Safety Guide	http://drs.ors.od.nih.gov/	

SECTION 6 – COMPETENCY OF RESPONSIBLE PERSONS

NAME/TITLE	BASIS FOR COMPETENCE
Scott Koehler	Senior facility manager; Mechanical engineer; 15 years experience at NIH Baltimore.

SECTION 7 – AUTHORIZATION

NAME:
SIGNATURE: