

NEMS ENVIRONMENTAL MANAGEMENT PROGRAM

\mathbf{r}				
PROGRAM NAME:	Radiological Waste Management Program			
SIGNIFICANT ENVIRONMENTAL ASPECT(S): Radiological Waste Management		DOCUMENT NUMBER:	EMS.EMP.05.2006.BALT	
		DATE REVISED:	11.20.2006	
		REVISION NUMBER:		
		SUNSET DATE:		
		PROGRAM LEAD:	Jean Clarke	
SECTION 1 – PROGRAM DI	ESCRIPTION			

Radioactive materials management is regulated under Nuclear Regulatory Commission (NRC) regulations in 10 CFR Parts 16 through 71. Section 274b of the Atomic Energy Act gives Maryland full regulatory authority over radioactive materials users in the State. Specifically, The NIA radiological program is managed and permitted through NIH-Bethesda's NRC license number 19-00296-10 (Amendment No. 98), which was issued September 26, 2005 and expires September 20, 2012. All daily radiological program operations at NIA, including administration and procurement, are covered under the NIH-Bethesda NRC license and are managed through the NIH-Bethesda Radiation Safety Office. The management structure for the NIDA radiological program has been in place since before NIDA became a part of NIH in 1992. To date, the NIDA radiological program continues to operate independently from NIH, and as such, maintains independent NRC licensure.

Radioactive waste is generated at the NIH Baltimore campus through experiments and treatment protocols. Radioactive wastes generated at NIH include aqueous radioactive solutions, liquid scintillation fluids and vials, and materials contaminated with radioactives (e.g., animal and patient wastes). This Radioactive Waste Management Plan has been established to provide the facility with guidance for managing radioactive waste use, collection and disposal services throughout the campus. In particular, NIH Baltimore will look to investigate options to reduce generation of radiological waste.

SECTION 2 – GOALS AND OBJECTIVES

GOAL: Justification:	Performance Indicator(s):		Resource requirements:			
A. Objective: Investigate the potential to purchase a liquid scintillation vial crusher to reduce both radioactive and general wastes.	Performance Indicator(s):	Responsibility: Jane Clarke	Timeframe:			
- Target/Milestone:	Performance Indicator(s):	Responsibility:	Timeframe:			
SECTION 3 – PROGRAM DESCRIPTION, SIGNIFICANCE, IMPACTS AND REQUIREMENTS						
REASON(S) FOR SIGNIFICANCE: Potential to significantly impact the human health and the environment through radioactive emissions and potential contamination of land, groundwater, and surface water resources						

All hardcopies of this document/record should be considered UNCONTROLLED and UNOFFICIAL.



	Document Number:	
	Date Revised:	
Revision Number:		
	Revise By:	

		 Represents a significant cost to NIH Important to NIH's relationship to the local community and the public at large 				
DOTENTIAL ENVIDONMEN		 Important to NIH's relationship to the local community and the public at large Human health impacts 				
OPCANIZATIONAL IMPA	NIAL/ TS•	 Human health impacts Toxic air emissions 				
ORGANIZATIONAL IMI AC	-10.	 Potential c 	ontamination of land grou	ndwater and surface waters		
LEGAL AND OTHER		 Atomic En 	ergy Act	indwater, and surface waters		
REQUIREMENTS.		■ 10 CFR P:	arts 16 71			
REQUIREMENTS:		 COMAR 2 	6 04 07			
		 COMAR 2 	6.12.01			
		 COMAR 2 	6, Subtitles 4, 10, 13, 26			
		 Occupation 	nal Health and Safety Act			
 Resource Cor 			onservation and Recovery Act			
	Executive Ore			g Federal Environmental, Ene	ergy and Transp	ortation Management
SECTION 4 – OPERATION	AL CON	ROLS		MICHAELEN AUGUSTALAN		
ACTIVITY(IES) THAT GIVES RISE TO ASPECT	CONTR	OL(S)	Responsible Person	MONITORING	RECORDS	ACTION TAKEN IF CONTROL FAILS
	• NIA	/ NIDA	-	•	•	•
and annual						
	refresher courses					
Bio-containment (Levels • PI Compliance						
2 & 2 with "3 practices") Statement						
Carcass handling	• CMS	SOP Book		•	•	•
Imaging (x-ray)	•		•	•	•	•
Radioactive Isotope Use,	•		•	•	•	•
Storage, and						
Transportation						
SECTION 5 – RELEVANT I	SECTION 5 – RELEVANT DOCUMENT(S)					
DOCUMENT NAME		LOCATION		RESPONSIBLE PERSON		
Waste Disposal Guide		http://orf.od.nih.gov/Environmental+Protection/Wast e+Disposal/				

All hardcopies of this document/record should be considered UNCONTROLLED and UNOFFICIAL.



_		
	Document Number:	
	Date Revised:	
	Revision Number:	
	Revise By:	

NIH Radiation Safety Guide		http://drs.ors.od.nih.gov/			
NIH Manual Issuance 3032, Waste Minimization		http://orf.od.nih.gov/Environmental+Protection/			
and Management at N	IH	Waste+Disposal/radwaste.htm			
Radiation Safety Prot	ocols	http://drs.ors.oc	od.nih.gov/policy/protocols.htm		
SECTION 6 – COMPE	TENCY OF RESPONSIBLE PEI	RSONS			
NAME/TITLE			BASIS FOR COMPETENCE		
Jane Clarke			Education and Training		
SECTION 7 – AUTHO	RIZATION				
NAME:					
SIGNATURE:					
DATE:					
		ß			

All hardcopies of this document/record should be considered UNCONTROLLED and UNOFFICIAL.