Appendix A Facility Laboratory Cost Estimating Worksheets

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Building	202	Roc	om or Area	Roll-up			
Use							
			1				
Radionuclides, Ext		<u>ıtaminatior</u>	<u>1</u>				
Area Classification							
# Floors above Bas							
# Floors below Ro	of						7
			% needing	ft2 needing			
- 2	Total	Class 1	Remed.	Remed.	Class 2	Class 3	ĺ
Floor Area, ft ²	342		<u> </u>	<u> </u>	ļ!	342	1
Wall Area, ft ²	935		<u>'</u>	<u> </u>		935	1
Ceiling Area, ft ²	342			<u> </u>		342	
							3
			Fraction	c.3 ¬ a.u.	e-3 - a		ft ³
Componen	ıts	Total ft3	RW	ft ³ DAW	ft ³ Metal	ft ³ Lead	Concrete
Glove Boxes		<u> </u>	<u> </u> '	 	<u> </u>	<u> </u> '	\vdash
Hoods		200		<u> </u>	<u> </u>	<u> </u>	\vdash
Benches/Tables/De		200	<u> </u>	 	<u> </u>	<u> </u>	
Casework/Cabinets		600	 	 	<u> </u>	 	
Reefers, Large Equ Misc. Equip./Labwa		100	 	 	<u> </u>	 	\vdash
Hot Cells	ale	100	 	 	 	 	\vdash
Storage Tanks		 	 	 	<u> </u>	 	\vdash
Other			 			 	
Sinks							
Drains					<u> </u>		
Ventilation Drops							
-	•						
			7		٦ ،		1
Drains	No.		Inch Dia.		Total ft ³		
Ventilation Drops	No.		Inch Dia.		Total ft ³		İ
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	
Equip. Release	2	4	8	<u> </u>			2
Pack/Load waste			<u> </u> !			<u> </u>	
Decon/Remed.	\vdash		'	<u> </u>	 '	<u> </u>	-
Final Survey	2	4	8				2
Characterize Equip. Release Pack/Load waste Decon/Remed. Final Survey	2 2 2	4 4	8 8 8	Snipper	Skilled	Unskilled	2 2

Ampoule s Use Note: this	sealing room					
	sealing room					
030 110to. tillo				CF U₌nat		
	IOOIII Was ii	sted as A lo	0 III 2000D	JL, O-Hat		
Radionuclides, Extent of Co	n <u>taminatio</u> i	<u>1</u>	U-nat			
Area Classification	3					
# Floors above Basement						
# Floors below Roof		0/	610	1		
		%	ft2			
Tatal	014	needing	needing	01 0	01 0	
Total	Class 1	Remed.	Remed.	Class 2	Class 3	
Floor Area, ft ² 189					189	
Wall Area, ft ² 485					485	
Ceiling Area, ft ² 189					189	
		Fraction	Fraction	Fraction	Fraction	Fraction
Components	Total ft3	RW	DAW	Metal	Lead	Concrete
Glove Boxes	Totalito	1000	DAII	Ivictai	Lead	Ooncrete
Hoods						
Benches/Tables/Desks	100					
Casework/Cabinets						
Reefers, Large Equipment	300			1		
Misc. Equip./Labware	50					
Hot Cells						
Storage Tanks						
Other						
Sinks						
Drains						
Ventilation Drops	<u></u>					
<u></u>		7 <u>-</u> .]_ , 3		
Drains No.	l	Inch Dia.		Total ft ³		
Ventilation Drops No.		Inch Dia.		Total ft ³		
Person-hours Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical
Characterize 1	2	4				1
Equip. Release 1	2	4				1
Dook/Lood wasts						
Pack/Load waste		1				
Decon/Remed. Final Survey 1	2	4				1

Building	202	Ro	om or Area	X154			
Use	Similar to λ	(158, shrink	k wrapping S	SRM ampou	ıle boxes pr	epared else	where
Radionuclides, Ex	tent of Con	ıtaminatior	า	U-nat (sam	ne as X158)		
Area Classification		3	1	,	,		
# Floors above Ba	sement		1				
# Floors below Ro	of		1				
			%	ft2			
			needing	needing			
	Total	Class 1	Remed.	Remed.	Class 2	Class 3	
Floor Area, ft ²	153					153	
Wall Area, ft ²	451					451	
Ceiling Area, ft ²	153					153	
			Fraction	Fraction	Fraction	Fraction	Fraction
Componer	nto	Total ft3	RW	DAW	Metal	Lead	Concrete
Componer Glove Boxes	115	TOTAL ITS	T T T T T T T T T T T T T T T T T T T	DAW	IVIELAI	Leau	Concrete
Hoods							
Benches/Tables/D	oeke	100					
Casework/Cabinet		100					
Reefers, Large Equ		300					
Misc. Equip./Labw		50					
Hot Cells	u. 0						
Storage Tanks							
Other							
Sinks							
Drains							
Ventilation Drops							
Dusins	Ma		luah Dia		Total ft ³		Ī
Drains	No.		Inch Dia.		4		
Ventilation Drops	No.		Inch Dia.		Total ft ³		
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical
Characterize	1	2	4				1
Equip. Release	1	2	4				1
Pack/Load waste							
Final Survey	1	2	4				1
Decon/Remed. Final Survey # Lab Samples to I	1 be collecte	2 d	4				1

Building	217	Roc	om or Area	Roll-up			
Use							
•							
Dadiamuslidas Ev	tant of Con	-4!ation					
Radionuclides, Ext Area Classification		tamination	1 1				
# Floors above Ba							
# Floors below Ro							
# I IOOIS DEIOW IXO			%	ft2	T	T	I
		1	needing	needing			I
	Total	Class 1	Remed.	Remed.	Class 2	Class 3	
Floor Area, ft ²	7526	ĺ				7526	I
Wall Area, ft ²	19415					19415	I
Ceiling Area, ft ²	7526				<u> </u>	7526	I
			Fraction				ft ³
Componer	nts	Total ft3	RW	ft ³ DAW	ft ³ Metal	ft ³ Lead	Concrete
Glove Boxes							
Hoods		750					
Benches/Tables/De		3350					
Casework/Cabinet	.s	1375					
Reefers, Large Equ	uipment	4900					
Misc. Equip./Labw	are	1050					
Hot Cells							
Storage Tanks							
Other		8					
Sinks		57					
Drains		16.0					
Ventilation Drops		25.0					
D	NI -		li		14-1643		I
Drains	No.	<u> </u>	Inch Dia.		Total ft ³		I
Ventilation Drops	No.		Inch Dia.	<u> </u>	Total ft ³		ı
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical
Characterize	14	28	60				14
Equip. Release	15	30	68				15
Pack/Load waste	0.5	1		4	4	4	0.5
Decon/Remed.							
Final Survey	14	28	60				14
# Lab Samples to I	be collecte	d	3				

Building	217	Roo	om or Area	C115				
ااجه	Surface an	d Microana	lvsis previo	us Pu snill	survey in N	ov. 2023 <n< td=""><td>IDC I</td><td></td></n<>	IDC I	
030	ounded an	a mioroana	iyolo, provio	ao i a opiii,	ourvey iii iv	OV. 2020 11	100.	
Radionuclides, Ex]	Unsealed ⁷	TRU, U, Th			
Area Classification		3						
# Floors above Ba								
# Floors below Ro	of		0/	40	T	1		
			%	ft2				
	Total	Class 1	needing Remed.	needing Remed.	Class 2	Class 3		
Floor Area, ft ²	1058	01400 1	Romodi	Romoan	0.000 2	1058		
Wall Area, ft ²	2016					2016		
Ceiling Area, ft ²	1058					1058		
Jenning Area, it	1000				<u> </u>	1000		
			Fraction	Fraction	Fraction	Fraction	Fraction	
Componer	nts	Total ft3	RW	DAW	Metal	Lead	Concrete	
Glove Boxes								
Hoods								
Benches/Tables/D	esks	400						
Casework/Cabinet	S	200						
Reefers, Large Equ	uipment	2000						
Misc. Equip./Labw	are	100						
Hot Cells								
Storage Tanks								
Other								
Sinks		5						
Drains		2.0						
Ventilation Drops								
			1		1- 4 . 643			
Drains	No.	1	Inch Dia.	2	Total ft ³	2.0		
Ventilation Drops	No.		Inch Dia.		Total ft ³			
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical	
Characterize	1	2	4	pp01		3	1	
Equip. Release	1	2	4				1	
Pack/Load waste								
Decon/Remed.								
Final Survey	1	2	4				1	
# Lab Samples to I	be collecte	d						

Building	217	Roc	om or Area	D113			
		-	'				
Use	Surface an	d Microanal	lysis				
Radionuclides, Ex	tont of Con	tamination		Sealed Fe-	55 only		
Area Classification	tent of Con	3	!]	Sealed Fe-	-55 Only		
# Floors above Ba		3					
# Floors above Ba # Floors below Ro							
# FIGUIS DEIOW RO	OI .		%	ft2	1		
			needing	needing			
	Total	Class 1	Remed.	Remed.	Class 2	Class 3	
Floor Area, ft ²	394	Class I	ixemeu.	Keilleu.	Class 2	394	
Wall Area, ft ²	1160					1160	
Ceiling Area, ft ²	394					394	
			Eraction	Erection	Eroction	Fraction	Fraction
Commonor	-4-	Tatal #2	Fraction	Fraction	Fraction		
Componer	าเร	Total ft3	RW	DAW	Metal	Lead	Concrete
Glove Boxes							
Hoods		200					
Benches/Tables/D Casework/Cabinet	esks	200					
Reefers, Large Eq		150					
		400					
Misc. Equip./Labw Hot Cells	are	100					
Storage Tanks Other							
Sinks		5					
Drains		3					
Ventilation Drops							
ventuation brops							
Drains	No.	1	Inch Dia.	2	Total ft ³		
Ventilation Drops	No.	'	Inch Dia.		Total ft ³		
ventuation brops	140.		ilicii bia.		Jiotaiit		
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical
Characterize	1	2	4			3.1.2.1	1
Characterize Equip. Release	1	2	4				1
Pack/Load waste							
Decon/Remed.							
Final Survey	1	2	4				1
# Lab Samples to	be collecte	d	1				

Building	217	Roc	om or Area	D108			
5							
Use	Suface and	l Microanal _y	ysis, Sealed	Fe-55 only	1		
					•	IMS Authoria	zed source
Radionuclides, Ex	tent of Con	tamination) 1	use locatio	on for HEU(l	J-235)	
A Ol !6' 4'	_						
Area Classification	1	3	-				
# Floors above Ba	comont						
# Floors above Ba # Floors below Ro			1				
# 1 loois below ito	01		%	ft2	T		l
			needing	needing			l
	Total	Class 1	Remed.	Remed.	Class 2	Class 3	l
Floor Area, ft ²	788					788	1
Wall Area, ft ²	1668					1668	l
Ceiling Area, ft ²	788					788	i
,							
			Fraction	Fraction	Fraction	Fraction	Fraction
Componer	nts	Total ft3	RW	DAW	Metal	Lead	Concrete
Glove Boxes							
Hoods							
Benches/Tables/D		250					
Casework/Cabinet		150			<u> </u>		
Reefers, Large Equ	-	300			 		
Misc. Equip./Labw Hot Cells	are	50					
Storage Tanks					<u> </u>		
Other					+		
Sinks		5			+		
Drains		2.0			1		
Ventilation Drops		2.0					
		J					
Drains	No.	1	Inch Dia.	2	Total ft ³		i
Ventilation Drops	No.		Inch Dia.		Total ft ³		l
•			•				
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical
Characterize	0.5	1	4		<u> </u>		0.5
Equip. Release	1	2	8		<u> </u>		1
Pack/Load waste	0.25	0.5	ļ	2	2	2	0.25
Decon/Remed.	0.5	4					0.5
Final Survey	0.5	1	4		<u> </u>		0.5
# Lab Samples to	be collecte	d]			

April 2023

Building	217	Roo	om or Area	D101			
Use	Surface an	d Microana	lysis, Seale	d Fe-55 onl			
			· J - · - · · · ·		,		
				Sealed Fe.	-55 only RS	SIMS Author	ized source
Radionuclides, Ex	tent of Cor	ntamination	,		•	J-235), Unat	
Area Classificatio		3	i	ase lecatio	111011120(0	<u>5 200), Ona</u>	., 00
# Floors above Ba			1				
# Floors below Ro			1				
	1		%	ft2			
			needing	needing			
	Total	Class 1	Remed.	Remed.	Class 2	Class 3	
Floor Area, ft ²	394					394	
Wall Area, ft ²	1160					1160	
Ceiling Area, ft ²	394				<u> </u>	394	
		1	<u> </u>	1			
			Fraction	Fraction	Fraction	Fraction	Fraction
Compone	nts	Total ft3	RW	DAW	Metal	Lead	Concrete
Glove Boxes							
Hoods							
Benches/Tables/D	esks	200					
Casework/Cabinet	ts	100					
Reefers, Large Eq	uipment	50					
Misc. Equip./Labw	/are	100					
Hot Cells							
Storage Tanks							
Other							
Other Sinks		5					
Other Sinks Drains		5					
Other Sinks		5					
Other Sinks Drains Ventilation Drops			1		13		
Other Sinks Drains Ventilation Drops Drains	No.	5	Inch Dia.	2	Total ft ³		
Other Sinks Drains Ventilation Drops Drains	No. No.		Inch Dia.	2	Total ft ³		
Other Sinks Drains Ventilation Drops Drains Ventilation Drops Person-hours	No.		4	2 Shipper		Unskilled	Clerical
Other Sinks Drains Ventilation Drops Drains Ventilation Drops Person-hours Characterize	No.	1 Supvsr	Inch Dia. HP Tech 4		Total ft ³	Unskilled	0.5
Other Sinks Drains Ventilation Drops Drains Ventilation Drops Person-hours Characterize Equip. Release	Mgr 0.5	1 Supvsr 1 2	Inch Dia.	Shipper	Total ft ³ Skilled		0.5 1
Other Sinks Drains Ventilation Drops Drains Ventilation Drops Person-hours Characterize Equip. Release Pack/Load waste	No. Mgr 0.5	1 Supvsr	Inch Dia. HP Tech 4		Total ft ³	Unskilled 2	0.5
Other Sinks Drains Ventilation Drops Drains Ventilation Drops Person-hours Characterize Equip. Release	Mgr 0.5	1 Supvsr 1 2	Inch Dia. HP Tech 4	Shipper	Total ft ³ Skilled		0.5 1

Building	217	Roo	om or Area	F122			
			· · · · · · · · · · · · · · · · · · ·				
Use	Selected Lo	ow Risk Sou	urce Use				
Radionuclides, Ex	tent of Con	tamination	,	I ow level s	sealed only		
Area Classification	1	3		LOW ICVOI	scaled offing		
# Floors above Ba							
# Floors below Ro							
	<u> </u>		%	ft2			
			needing	needing			
	Total	Class 1	Remed.	Remed.	Class 2	Class 3	
Floor Area, ft ²	537					537	
Wall Area, ft ²	1344					1344	
Ceiling Area, ft ²	537					537	
, , , , , , , , , , , , , , , , , , ,							
			Fraction	Fraction	Fraction	Fraction	Fraction
Componer	nts	Total ft3	RW	DAW	Metal	Lead	Concrete
Glove Boxes							
Hoods							
Benches/Tables/D	esks	100					
Casework/Cabinet		50					
Reefers, Large Equ		300					
Misc. Equip./Labw	are	100					
Hot Cells							
Storage Tanks							
Other							
Sinks							
Drains		2.0					
Ventilation Drops		5.0					
Drains	Ma	1	Inch Dia.	2	Total ft ³		
Ventilation Drops	No.	1		10	Total ft ³		
ventilation Drops	No.	1	Inch Dia.	10] ι otal π		
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical
Characterize	1	2	4				1
Characterize Equip. Release	1	2	4				1
Pack/Load waste							
Decon/Remed.							
Final Survey	1	2	4				1
# Lab Samples to I	be collecte	d					

Building	217	Roo	om or Area	C121				
Use	Particle Me	trology						
Radionuclides, Extent of				Particle Metrology, Sealed beta sources only (inc. Kr-85 & H-3) RSIMS - authorized source				
Contamination				use loc. for	r LEU (U-23	5 pwdr. on f	ilter)	
Area Classification	1	3]					
# Floors above Ba								
# Floors below Ro	of		0/	L 40	1	1		
	Total	Class 1	% needing Remed.	ft2 needing Remed.	Class 2	Class 3		
Floor Area, ft ²	300	Class I	Keilleu.	Keilleu.	Class 2	300		
Wall Area, ft ²	840					840		
Ceiling Area, ft ²	300					300		
coming Arou, it	000		Fraction	Fraction	Fraction	Fraction	Fraction	
Componer	nts	Total ft3	RW	DAW	Metal	Lead	Concrete	
Glove Boxes								
Hoods		300						
Benches/Tables/D		150						
Casework/Cabinet		50						
Reefers, Large Eq	-							
Misc. Equip./Labw	are							
Hot Cells			<u> </u>					
Storage Tanks								
Other Sinks		5						
Drains		J						
Ventilation Drops					 			
. J. M. G. G. D. Op 3	ļ		1	<u>I</u>	1			
Drains	No.		Inch Dia.		Total ft ³			
Ventilation Drops	No.		Inch Dia.		Total ft ³			
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical	
Characterize	1	2	4				1	
Equip. Release	1	2	4				1	
Pack/Load waste								
Decon/Remed.								
Final Survey	1	2	4				1	
# Lab Samples to l	be collecte	d]				

Building	217	Roo	om or Area	F118				
		1		•				
Use								
Dadiamuskidas For	446-0	.4 ! 4!	_	0-1411	Dial. Ca	1.1		
Radionuclides, Ex) 1	Selected L	ow Risk So	urce Use		
# Floors above Ba		3						
# Floors above Ba								
# 1 loois below ito	01		%	ft2	I			
			needing	needing				
	Total	Class 1	Remed.	Remed.	Class 2	Class 3		
Floor Area, ft ²	506					506		
Wall Area, ft ²	1328					1328		
Ceiling Area, ft ²	506					506		
coming ration, it	000				<u> </u>	_ 000		
			Fraction	Fraction	Fraction	Fraction	Fraction	
Componer	nts	Total ft3	RW	DAW	Metal	Lead	Concrete	
Glove Boxes								
Hoods								
Benches/Tables/D		400						
Casework/Cabinet		100						
Reefers, Large Equ		600						
Misc. Equip./Labw	are	100						
Hot Cells								
Storage Tanks								
Other								
Sinks Drains								
Ventilation Drops								
ventilation brops								
Drains	No.		Inch Dia.		Total ft ³			
Ventilation Drops	No.		Inch Dia.		Total ft ³			
ventilation brops	NO.		Jilicii Dia.	<u></u>	Jiolaiil			
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical	
Characterize	1	2	4				1	
Equip. Release	1	2	4				1	
Pack/Load waste								
Decon/Remed.								
Final Survey	1	2	4				1	
# Lab Samples to I	be collecte	d]				

Building	217	Roc	om or Area	F112				
	0 1411	Diale Ca						1
Use	Selected Lo	DW KISK SOL	urce Use					I
Radionuclides, Ex	tent of Cor	ıtaminatior	1					
Area Classification		3	1					
# Floors above Ba	sement		1					
# Floors below Ro	of						:	
			%	ft2			I	
	'	ĺ '	needing	needing			İ	
	Total	Class 1	Remed.	Remed.	Class 2	Class 3	İ	
Floor Area, ft ²	506					506	I	
Wall Area, ft ²	1328					1328	ľ	
Ceiling Area, ft ²	506					506	ľ	
			Fraction	Fraction	Fraction	Fraction	Fraction	
Componer	nts	Total ft3	RW	DAW	Metal	Lead	Concrete	
Glove Boxes	!							
Hoods	_	L'			<u> </u>			
Benches/Tables/D		250			<u> </u>	<u> </u>		
Casework/Cabinet		100	ļ		<u> </u>	<u> </u>		
Reefers, Large Equ	-	100	ļ					
Misc. Equip./Labw	are	50			<u> </u>			
Hot Cells	!	<u> </u>			<u> </u>			
Storage Tanks	ļ	<u> </u>			<u> </u>	 		
Other	ļ	<u> </u>	ļ		<u> </u>	 		
Sinks Drains	!	<u> </u>			 	 		
	!	<u> </u>			 	-		
Ventilation Drops	!	<u></u> '	<u> </u>		<u> </u>			I
Drains	No.		Inch Dia.		Total ft ³		İ	
Ventilation Drops	No.		Inch Dia.		Total ft ³		l	
		<u> </u>	1] . •			
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical	
Characterize	1	2	4				1	
Equip. Release	1	2	4				1	
Pack/Load waste								
Decon/Remed.								
Final Survey	1	2	4				1	
# Lab Samples to I	be collecte	d						

Duilding	247		au Auaa	F111			
Building	217	, Roc	om or Area	F111			
llee.	Colootod	ow Diak Ca	·····				
Use	Selected Lo	JW RISK SOI	urce Use				
Radionuclides, Ex	tant of Car	stamination	,				
Area Classification		3	i '	<u> </u>			
# Floors above Ba	L	3	1				
# Floors above Bas	l l	 	1				
# FIGUIS DEIGW ING	01		%	ft2	1	Т	İ
	1	Í	needing	needing			İ
	Total	Class 1	Remed.	Remed.	Class 2	Class 3	l
Floor Area, ft ²	506	Class I	Keilleu.	Keilleu.	Class 2	506	l
		 	 	 	 	+	l
Wall Area, ft ²	1328	<u> </u>			<u> </u>	1328	İ
Ceiling Area, ft ²	506			<u> </u>		506	i
					= -4!	- 41	
	_		Fraction	Fraction	Fraction	Fraction	Fraction
Componer	ıts	Total ft3	RW	DAW	Metal	Lead	Concrete
Glove Boxes			<u> </u>	<u> </u>		ļ	
Hoods	_		<u> </u>	<u> </u>	<u> </u>	ļ	
Benches/Tables/De		350	<u> </u>	<u> </u>	<u> </u>		
Casework/Cabinet		75	<u> </u>	<u> </u>			
Reefers, Large Equ	-	300					
Misc. Equip./Labw	are	150					
Hot Cells							
Storage Tanks							
Other							
Sinks		5					
Drains		2.0					
Ventilation Drops		5.0					
			_		_		
Drains	No.	1	Inch Dia.	2	Total ft ³		l
Ventilation Drops	No.	1	Inch Dia.	2	Total ft ³		İ
-	•				•		
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical
Characterize	1	2	4				1
Equip. Release	1	2	4				1
Pack/Load waste		ĺ					
Decon/Remed.							
Final Survey	1	2	4				1
# Lab Samples to I	be collecte	d					

Building	217	Roc	om or Area	F109			
ļ			-				
lleo	Salected I	ow Pick So	uroa llea C	turrently no	more source	200	
USE	Selected Lt	JW MISK GOL	ille Use, U	ullelilly flo	IIIOIE SOUICE	62	
Radionuclides, Ext	tent of Cor	ntaminatior	1				
Area Classification	-	3	ĺ '	1			
# Floors above Bas							
# Floors below Ro	of						
			%	ft2			I
	'		needing	needing			l
	Total	Class 1	Remed.	Remed.	Class 2	Class 3	l
Floor Area, ft ²	506					506	I
Wall Area, ft ²	1328					1328	l
Ceiling Area, ft ²	506					506	
			Fraction	Fraction	Fraction	Fraction	Fraction
Componer	nts	Total ft3	RW	DAW	Metal	Lead	Concrete
Glove Boxes	1	<u> </u>	<u> </u>	<u> </u>	<u> </u>		
Hoods	_		<u> </u>	<u> </u>	<u> </u>		
Benches/Tables/De		150		<u> </u>	<u> </u>		
Casework/Cabinet		100		<u> </u>	<u> </u>		
Reefers, Large Equ		200		<u> </u>	<u> </u>		
Misc. Equip./Labwa	are	<u> </u>	 !	 	 		
Hot Cells	1	<u> </u>	 	 	 		
Storage Tanks Other	1	<u> </u>	 	 	 	+	
Sinks	1	4	 	 	 	 	
Drains	ľ	2.0	 	 	 		
Ventilation Drops	1	2.0	 	<u> </u>	 		
Ventuation Brops							
Drains	No.	1	Inch Dia.	2	Total ft ³		I
Ventilation Drops	No.		Inch Dia.		Total ft ³		I
		<u> </u>	1	<u> </u>]		
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical
Characterize	1	2	4				1
Equip. Release	1	2	4				1
Pack/Load waste							
Decon/Remed.	<u> </u>						
Final Survey	1	2	4	<u> </u>			1
# Lab Samples to I	be collecte	d		J			

Building	217	Roc	om or Area	F106			
l	Calastod I	Diak Ca	····a Llaa C	····			
USe	Selected Lo	DW KISK SOL	urce Use, U	urrently no	more sourc	es	
Radionuclides, Ex	tent of Cor	ntaminatior	1	Low level a	alpha		
Area Classification		3]				
# Floors above Ba			1				
# Floors below Ro	of		İ				
			%	ft2			İ
			needing	needing			İ
	Total	Class 1	Remed.	Remed.	Class 2	Class 3	İ
Floor Area, ft ²	506					506	İ
Wall Area, ft ²	1328			Γ		1328	l
Ceiling Area, ft ²	506					506	İ
			•	1			
			Fraction	Fraction	Fraction	Fraction	Fraction
Componer	nts	Total ft3	RW	DAW	Metal	Lead	Concrete
Glove Boxes							
Hoods							
Benches/Tables/D		200					
Casework/Cabinet		100					
Reefers, Large Equ		400					
Misc. Equip./Labw	are	100	ļ	<u> </u>		ļI	
Hot Cells							
Storage Tanks						<u> </u>	
Other		<u> </u>				-	
Sinks		4	ļ	<u> </u>	<u> </u>	 	
Drains		2.0			 	 	
Ventilation Drops	!		<u> </u>	<u> </u>	<u> </u>		
Drains	No.	1	Inch Dia.	2	Total ft ³		ľ
Ventilation Drops	No.		Inch Dia.		Total ft ³		l
			J]. • • • • • • • • • • • • • • • • • • •		
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical
Characterize	1	2	4				1
Equip. Release	1	2	4				1
Pack/Load waste							
Decon/Remed.							
Final Survey	1	2	4				1
# Lab Samples to I	be collecte	d]			

Building	217	Roc	om or Area	F101				
ļ								
Use	Microscopy	/, Selected I	Low Risk sc	ource use				
				1	. =			
Radionuclides, Ext			, ! 1	historical (I	LEU, Mixed	Byproduct)		
Area Classification		3	ł					
# Floors above Bas		<u> </u>	ł					
# Floors below Ro	Of	<u> </u>	%	ft2	Τ	T	l	
	1	1 '	needing	needing				
	Total	Class 1	Remed.	Remed.	Class 2	Class 3		
Floor Area, ft ²	259	Class I	Keilleu.	Keilleu.	Class 2	259		
Wall Area, ft ²	1003				+	1003		
		<u> </u>	<u> </u>	 	 	+		
Ceiling Area, ft ²	259				<u> </u>	259		
			Fraction	Fraction	Fraction	Fraction	Fraction	
Componer	-4-	Total ft2	RW					
Componer Glove Boxes	its	Total ft3	T VV	DAW	Metal	Lead	Concrete	
Hoods		 	 	 	 	+		
Benches/Tables/De	ooko		 '	 	 	 		
Casework/Cabinet			 '	 	 	 		
		 	 '	 	 	 		
Reefers, Large Equ Misc. Equip./Labwa		 	 '	 	 	 		
Hot Cells	are		 '	 	 	 		
Storage Tanks		 	 	 	 	+		
Other			\vdash	 	 	+		
Sinks		 	 	 	 	+		
Drains		 	 	 	 	+		
Ventilation Drops		 	 	 	 	+		
Ventuation Drops	ļ							
Drains	No.		Inch Dia.		Total ft ³			
Ventilation Drops	No.		Inch Dia.	<u> </u>	Total ft ³			
ventilation brops	NO.		ilicii bia.	<u> </u>	Jiotaiit			
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical	
Characterize	1	2	4				1	
Equip. Release	1	2	4				1	
Pack/Load waste		1						
Decon/Remed.		1						
Final Survey	1	2	4				1	
# Lab Samples to b	be collecte	d]				

Building	217	Roc	om or Area	D115 (aka	D117)		
	N/A Salaci	ted Low Ris	k Source U	ee historica	<u> </u>		
Use	SEM Room		K Cource O.	3C HISTORICA	•		
		<u>.,</u>					
Radionuclides, Ex	tent of Con	ıtaminatior	1	Ni-63 seale	ed		
Area Classification		3]				
# Floors above Ba	sement						
# Floors below Ro	of						
			%	ft2			
			needing	needing			
	Total	Class 1	Remed.	Remed.	Class 2	Class 3	
Floor Area, ft ²	396					396	
Wall Area, ft ²	1180					1180	
Ceiling Area, ft ²	396					396	
Componer	nts	Total ft3	Fraction RW	Fraction DAW	Fraction Metal	Fraction Lead	Fraction Concrete
Glove Boxes							
Hoods							
Benches/Tables/D		200 50					
	Casework/Cabinets						
Reefers, Large Eq	-	200					
Misc. Equip./Labw	are	100			_		
Hot Cells							
Storage Tanks							
Other, Sinks					<u> </u>		
Drains		2.0			<u> </u>		
Ventilation Drops		2.0			 		
ventuation brops						<u> </u>	
Drains	No.	1	Inch Dia.	2	Total ft ³		
Ventilation Drops	No.		Inch Dia.		Total ft ³		
•	'	1	•		•		
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical
Characterize	1	2	4				1
Equip. Release	1	2	4				1
Pack/Load waste							
Decon/Remed.							
Final Survey	1	2	4				1
# Lab Samples to be collected 1							

Use low act	: .:					
Use low act			000 1151		4 4 0 D 00	0. 511. 0
	ivity: sealed/ur	nsealed - Pu	u-239, HEU	, U-nat, GD	-148, Pu-23	8, DU, Cs-
Radionuclides, Extent of C	Contamination	•	Du-230 HI	Ell II-nat (2D_1//8 Pu_	238, DU, Cs-
Area Classification	3	i '	1 u-200, 111	LO, O-Hat, C	3D-140, 1 u-	200, DO, C3
# Floors above Basement		1				
# Floors below Roof		1				
		%	ft2			
		needing	needing			
Total	Class 1	Remed.	Remed.	Class 2	Class 3	
Floor Area, ft ² 234					234	
Wall Area, ft ² 980					980	
Ceiling Area, ft ² 234					234	
•	•	•		•		
		Fraction	Fraction	Fraction	Fraction	Fraction
Components	Total ft3	RW	DAW	Metal	Lead	Concrete
Glove Boxes						
Hoods	150					
Benches/Tables/Desks	100					
Casework/Cabinets	100					
Reefers, Large Equipment	50					
Misc. Equip./Labware	50					
Hot Cells						
Storage Tanks						
Other, lead shield safe	8					
Sinks	5					
Drains	2.0					
Ventilation Drops	15.0					
Bustine A	1. 4	l b] _		
	No. 1	Inch Dia.	2	Total ft ³		
Ventilation Drops	No. 1	Inch Dia.	12	Total ft ³		
Person-hours Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical
Characterize 1	2	4	- 66			1
Equip. Release 1	2	4				1
Pack/Load waste						
Decon/Remed.						
Final Survey 1	2	4				1

	Alpha and			•		•	
Radionuclides, Ex			1	Very Low I	_evel, Ni-63	sealed sour	ce/device
Area Classificatio		3	4				
# Floors above Ba			4				
# Floors below Ro	of		0/	610		,	
			%	ft2			
			needing	needing			
	Total	Class 1	Remed.	Remed.	Class 2	Class 3	
Floor Area, ft ²	638					638	
Wall Area, ft ²	1428					1428	
Ceiling Area, ft ²	638					638	
Compone	nts	Total ft3	Fraction RW	Fraction DAW	Fraction Metal	Fraction Lead	Fraction Concrete
Glove Boxes							
Hoods		300					
Benches/Tables/D	esks	400					
Casework/Cabinet	ts	50					
Reefers, Large Eq	uipment						
Misc. Equip./Labw	are	50					
Hot Cells							
Storage Tanks							
Other							
Sinks		10					
Drains							
Ventilation Drops							
-			-				_
Drains	No.	2	Inch Dia.	2	Total ft ³		
Ventilation Drops	No.	4	Inch Dia.	10	Total ft ³		
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical
Characterize	1	2	4				1
Equip. Release	1	2	4				1
Pack/Load waste							
Decon/Remed.							
December.	1	2	4			1	1

Room or Area C105

Building

217

Building	220	Roo	om or Area	Roll-up			
Use							
Use							
Radionuclides, Ext	tent of Con	tamination	1				
Area Classification			i '				
# Floors above Bas			1				
# Floors below Ro							
			%	ft2			
			needing	needing			
	Total	Class 1	Remed.	Remed.	Class 2	Class 3	
Floor Area, ft ²	5513	400		40		5113	
Wall Area, ft ²	22514	1800				20714	
Ceiling Area, ft ²	5513	400				5113	
Johnsy Alba, it	0010	700	<u> </u>		<u> </u>	0110	
			Fraction				ft ³
Componen	nte	Total ft3	RW	ft ³ DAW	ft ³ Metal	ft ³ Lead	Concrete
Glove Boxes	11.3 	าบเสา กเจ	IVAA	IL DAW	it wietal	IL LEAU	Concrete
Hoods		100					
Benches/Tables/De	ooko	500					
Casework/Cabinets		1750					
	_	1750					
Reefers, Large Equ		200					
Misc. Equip./Labwa	are	300					
Hot Cells							
Storage Tanks							
Other							
Sinks		50					
Drains		0.6					
Ventilation Drops		47.6					
Drains	No.		Inch Dia.		Total ft ³		
			4		4		
Ventilation Drops	No.		Inch Dia.		Total ft ³		
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical
Characterize	18	36	72	- 66			18
Equip. Release	21	42	84				21
Pack/Load waste	0.6	1.25	0.5	1	6	6	0.6
Decon/Remed.	0.5	1	1	-	2	2	0.5
Final Survey	18	36	72				18
# Lab Samples to b			2				

Building	220	Roo	om or Area	A226						
Use	Office. Pre	viously Micr	o and Nanc	analvsis						
		····· ·		,						
Radionuclides, Ex) 1	Unsealed I	U, Th					
Area Classification		3								
# Floors above Ba										
# Floors below Ro	ot		%	ft2		1	Í			
			needing	needing						
	Total	Class 1	Remed.	Remed.	Class 2	Class 3				
Floor Aroo ft ²		Class I	Remeu.	Reilleu.	Class 2					
Floor Area, ft ² Wall Area, ft ²	750					750				
·	1320					1320				
Ceiling Area, ft ²	750					750				
			Fraction	Fraction	Fraction	Fraction	Fraction			
Componer	าเร	Total ft3	RW	DAW	Metal	Lead	Concrete			
Glove Boxes										
Hoods	aalra	200								
Casework/Cabinet	Senches/Tables/Desks									
Reefers, Large Equ		350			<u> </u>					
Misc. Equip./Labw	aro	100								
Hot Cells	aic	100								
Storage Tanks										
Storage Tanks Other										
Sinks		20								
Drains										
Ventilation Drops										
•					•					
Drains	No.		Inch Dia.		Total ft ³					
Ventilation Drops	No.		Inch Dia.		Total ft ³					
-			•		-		ı			
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical			
Characterize	2	4	8				2			
Equip. Release	1	2	4				1			
Pack/Load waste	0.5	1			2	2	0.5			
Decon/Remed.										
Final Survey	2	4	8				2			
# Lab Samples to be collected										

Building	220	Por	m or Area	A266			
Building	220	NOC	on Area	A200			
Use	Micro and N	Nano Analy	sis Sample	Prep			
Radionuclides, Ex	tent of Con	tamination	ı	Unsealed l	J, Th		
Area Classification		1			•		
# Floors above Ba	sement	2					
# Floors below Ro	of	1					
			%	ft2			
			needing	needing			
	Total	Class 1	Remed.	Remed.	Class 2	Class 3	
Floor Area, ft ²	400	400	0.1	40			
Wall Area, ft ²	1800	1800					
Ceiling Area, ft ²	400	400					
			F	F	E	E	F 41
0	-4-	T-4-1 #0	Fraction	Fraction	Fraction	Fraction	Fraction
Componer Glove Boxes	nts I	Total ft3	RW	DAW	Metal	Lead	Concrete
Hoods		100	0.5		1		
Benches/Tables/D	oeke	200	0.5		1		
Casework/Cabinet		300					
Reefers, Large Eq		300					
Misc. Equip./Labw		200	0.1	0.2	0.8		
Hot Cells	aic	200	0.1	0.2	0.0		
Storage Tanks							
Other							
Sinks		30					
Drains		0.6					
Ventilation Drops		47.6					
•					•		
Drains	No.	2	Inch Dia.	2	Total ft ³	0.6	
Ventilation Drops	No.	7	Inch Dia.	14	Total ft ³	47.6	
•							
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical
Characterize	4	8	16				4
Equip. Release	8	16	32				8
Pack/Load waste	0.1	0.25	0.5	1	4	4	0.1
Decon/Remed.	0.5	1	1		2	2	0.5
Final Survey	4	8	16				4
# Lab Samples to be collected 1							

Building	220	Roo	om or Area	A122			
llea	Office						1
036	Office						
					id or powde LEU, DU, TI		
Radionuclides, Ex			<u>)</u>	device - Kr	-85. Liquid	LEU, HEU	
Area Classification		3					
# Floors above Ba							
# Floors below Ro	of		%	ft2	1		Ī
	Total	Class 1	needing Remed.	needing Remed.	Class 2	Class 3	
Floor Area, ft ²	Total	Class 1	Reillea.	Reifieu.	Class 2		
Wall Area, ft ²	240				-	240	
Vali Area, π Ceiling Area, ft²	840				-	840	
ceiling Area, π°	240		<u> </u>		<u> </u>	240	
			Fraction	Fraction	Fraction	Fraction	Fraction
Componer	nts	Total ft3	RW	DAW	Metal	Lead	Concrete
Glove Boxes							
Hoods							
Benches/Tables/D	esks	100					
Casework/Cabinet	s	100					
Reefers, Large Equ	uipment						
Misc. Equip./Labw	are						
Hot Cells							
Storage Tanks							
Other							
Sinks							
Drains							
Ventilation Drops							
Drains	No.		Inch Dia.		Total ft ³		
	No.		Inch Dia.		Total ft ³		
Ventilation Drops	NO.		Jilicii Dia.		Jiolaiil		
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical
Characterize	1	2	4				1
Equip. Release	1	2	4				1
Pack/Load waste							
Decon/Remed.							
Final Survey	1	2	4				1
# Lab Samples to I	be collecte	d	1				

Use	RAM mater	rial storage					
Radionuclides, Ex Area Classification # Floors above Ba # Floors below Ro	n sement	tamination 3	% needing	powder- Ni LEU, DU, ⁷	i-63, H-3, Th	e - Ni 63. Sc n-nat, U-nat. YP. Gas GL EU	, HEU,
	Total	Class 1	Remed.	Remed.	Class 2	Class 3	
Floor Area, ft ²	400					400	
Wall Area, ft ²	1800					1800	
Ceiling Area, ft ²	400					400	
Componer	nts	Total ft3	Fraction RW	Fraction DAW	Fraction Metal	Fraction Lead	Fraction Concrete
Glove Boxes							
Hoods							
Benches/Tables/D Casework/Cabinet		100					
Reefers, Large Eq		100					
Misc. Equip./Labw	- 1						
Hot Cells	-						
Storage Tanks							
Other							
Sinks							
Drains							
Ventilation Drops	ļ						
Drains	No.		Inch Dia.		Total ft ³		
Ventilation Drops	No.		Inch Dia.		Total ft ³		
			1		1		
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical
Characterize	1	2	4				1
Equip. Release	1	2	4				1
Pack/Load waste							
Decon/Remed.	4	0	4				4
Final Survey	1	2	4				1
# Lab Samples to I	be collected	d					

Room or Area A32

Building

220

Building	Building 220 Room or Area A264										
Hea	Sample rec	oint room f	or other rec	mc in 220	all low leve	1					
USE	Sample rec	zeipt room r	or other roo	1115 111 220 -	all low leve						
Radionuclides, Ex	tent of Con	tamination	1	various							
Area Classification	า	3									
# Floors above Ba	sement										
# Floors below Ro	of						_				
			%	ft2							
			needing	needing							
	Total	Class 1	Remed.	Remed.	Class 2	Class 3					
Floor Area, ft ²	400					400					
Wall Area, ft ²	1800					1800					
Ceiling Area, ft ²	400					400					
			Fraction	Fraction	Fraction	Fraction	Fraction				
Componer	nts	Total ft3	RW	DAW	Metal	Lead	Concrete				
Glove Boxes	-										
Hoods											
Benches/Tables/D	esks										
Casework/Cabinet	s										
Reefers, Large Eq	uipment										
Misc. Equip./Labw											
Hot Cells											
Storage Tanks											
Other											
Sinks											
Drains											
Ventilation Drops											
	_		1] 2		Ī				
Drains	No.		Inch Dia.		Total ft ³						
Ventilation Drops	No.		Inch Dia.		Total ft ³						
Person-hours	Mar	Supver	HP Tech	Chinna	Skilled	Unskilled	Clerical				
Characterize	Mgr 1	Supvsr 2	4	Shipper	Skilled	Unskilled	olerical 1				
Equip. Release	1	2	4				1				
Pack/Load waste	ı		4				ı				
Decon/Remed.											
Final Survey	1	2	4				1				
i mai oai vey	ļ.						ļ				
# Lab Samples to	be collecte	d									

Building	220	Ro	om or Area	A218			
IIaa	Calid Caala	d Na OO	Ra-226, Ni-	60 11 0 0-	- V= 0F		
Use	Solid Seale	ed - Na-22,	Ra-226, NI-	03, H-3. Ga	IS - KI-85		
Radionuclides, Ex	tent of Con	tamination	n	Sealed - Na-2	22. Ra-226. Ni-	-63, H-3. Gas -	Kr-85
Area Classification		3	1		, -,		
# Floors above Ba	sement						
# Floors below Ro	of						
			%	ft2			
			needing	needing			
	Total	Class 1	Remed.	Remed.	Class 2	Class 3	
Floor Area, ft ²	400					400	
Wall Area, ft ²	1800					1800	
Ceiling Area, ft ²	400					400	
			Fraction	Fraction	Fraction	Fraction	Fraction
Componer	nts	Total ft3	RW	DAW	Metal	Lead	Concrete
Glove Boxes							
Hoods							
Benches/Tables/D							
Casework/Cabinet		100					
Reefers, Large Eq							
Misc. Equip./Labw	are						
Hot Cells							
Storage Tanks							
Other							
Sinks							
Drains							
Ventilation Drops							
Draina	No.		Inch Dia.		Total ft ³		
Drains	_		-		⊥		
Ventilation Drops	No.		Inch Dia.		Total ft ³		
•		Supver	HP Tech	Shipper	Skilled	Unskilled	Clerical
•	Mgr	Supvsi	THE LECTION	pp			
Person-hours Characterize	Mgr 1	Supvsr 2	4	oppo:			1
Person-hours Characterize							_
Person-hours Characterize Equip. Release Pack/Load waste	1	2	4				1
Person-hours Characterize Equip. Release Pack/Load waste Decon/Remed. Final Survey	1	2	4	Стро			1

Building	220	Roo	Room or Area A05								
Use											
•	•										
Radionuclides, Ext			1 /	liquid - I -12	29						
Area Classification		3	-								
# Floors above Bas		 	-								
# Floors below Ro	of	 	%	ft2		1	l				
		ĺ									
	Total	Class 4	needing	needing	Class 2	Class 2					
6.2	Total	Class 1	Remed.	Remed.	Class 2	Class 3					
Floor Area, ft ²	368	<u> </u>		<u> </u>		368					
Wall Area, ft ²	1656	<u> </u>		<u> </u>	<u> </u>	1656					
Ceiling Area, ft ²	368					368					
			Fraction	Fraction	Fraction	Fraction	Fraction				
Componer	ıts	Total ft3	RW	DAW	Metal	Lead	Concrete				
Glove Boxes				<u> </u>	<u> </u>	<u> </u>					
Hoods			ļ	<u> </u>		<u> </u>					
Benches/Tables/De				<u> </u>	<u> </u>	ļ					
Casework/Cabinet		100			<u> </u>	ļ					
Reefers, Large Equ		<u> </u>		<u> </u>							
Misc. Equip./Labwa	are										
Hot Cells											
Storage Tanks											
Other											
Sinks											
Drains											
Ventilation Drops				<u> </u>							
Drains	No.		Inch Dia.		Total ft ³						
Ventilation Drops	No.		Inch Dia.		Total ft ³						
Ventuation Drops	140.	<u> </u>	Jilicii Dia.	<u> </u>	Jiotaiit		l				
	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical				
Person-hours	ivigi					,	1				
Person-hours Characterize	1	2	4				1				
Characterize		2 2	4		<u> </u>	<u> </u>	1				
	1										
Characterize Equip. Release	1										

April 2023

Use							
_							
Radionuclides, Exte	ent of Con	tamination	1	solid- Ag-1	08m (bare r	metal)	
Area Classification		3	j '	00.14 7.5	00111 (8412).	nota.,	
# Floors above Base	ement		1				
# Floors below Roof	L		1				
			%	ft2			I
			needing	needing			I
	Total	Class 1	Remed.	Remed.	Class 2	Class 3	
Floor Area, ft ²	177					177	
Wall Area, ft ²	796.5					796.5	
Ceiling Area, ft ²	177	·				177	
		·					
			Fraction	Fraction	Fraction	Fraction	Fraction
Components	s	Total ft3	RW	DAW	Metal	Lead	Concrete
Glove Boxes			'				
Hoods			<u> </u>				
Benches/Tables/Des			<u> </u>				
Casework/Cabinets		100					
Reefers, Large Equi	pment						
Misc. Equip./Labwaı	re						
Hot Cells			,	,			
Storage Tanks	Ī						
Other	Ī		<u> </u>	,			
Sinks	Ī	-					
Drains	ļ		·	,			
Ventilation Drops	Ī						
			1				
Drains	No.		Inch Dia.		Total ft ³		I
Ventilation Drops	No.		Inch Dia.		Total ft ³		
						· • • • • • • • • • • • • • • • • • • •	
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical
Characterize	1	2	4	 '	 	igwdown	1
Equip. Release	1	2	4	 '	<u> </u>	igwdown	1
Pack/Load waste			 '	<u> </u>	 '		
Decon/Remed.			<u> </u>	 '	 '		<u> </u>
Final Survey	1	2	4				1

Laboratory Areas

Building	220	Ro	om or Area	A321			
11							
Use							
Radionuclides, Ex	tent of Con	itamination	1	Sealed GA	S - H-3		
Area Classification	n	3					
# Floors above Ba	sement						
# Floors below Ro	of						
			%	ft2			
			needing	needing			
	Total	Class 1	Remed.	Remed.	Class 2	Class 3	
Floor Area, ft ²	176					176	
Wall Area, ft ²	792					792	
Ceiling Area, ft ²	176					176	
	-		•		•	•	
			Fraction	Fraction	Fraction	Fraction	Fraction
Componei	nts	Total ft3	RW	DAW	Metal	Lead	Concrete
Glove Boxes							
Hoods							
Benches/Tables/D							
Casework/Cabinet		100					
Reefers, Large Eq	uipment						
Misc. Equip./Labw	are						
Hot Cells							
Storage Tanks							
Other							
Sinks							
Drains							
Ventilation Drops							
			1		1 3		
II Iraine	No.		Inch Dia.		Total ft ³		
Drains			11 I. D:-		Total ft ³		
	No.		Inch Dia.] . •	<u></u>	
Ventilation Drops		Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical
Ventilation Drops	Mgr	Supvsr 2	.	Shipper	1	Unskilled	Clerical 1
Ventilation Drops Person-hours Characterize	Mgr		HP Tech	Shipper	1	Unskilled	
Ventilation Drops Person-hours Characterize Equip. Release	Mgr 1	2	HP Tech	Shipper	1	Unskilled	1
Ventilation Drops Person-hours Characterize	Mgr 1	2	HP Tech	Shipper	1	Unskilled	1

Building	220	Roo	Room or Area A324								
Use											
Radionuclides, Ex	tent of Con	ntamination	1	Solid Seale	ed- H-3		1				
Area Classification		3	j '								
# Floors above Ba			1								
# Floors below Ro			1								
			%	ft2							
			needing	needing							
	Total	Class 1	Remed.	Remed.	Class 2	Class 3					
Floor Area, ft ²	528					528					
Wall Area, ft ²	2376					2376					
Ceiling Area, ft ²	528					528					
		<u> </u>					· 				
			Fraction	Fraction	Fraction	Fraction	Fraction				
Componer	nts	Total ft3	RW	DAW	Metal	Lead	Concrete				
Glove Boxes											
Hoods	_										
Benches/Tables/Desks		400									
Casework/Cabinets		100									
Reefers, Large Eq											
Misc. Equip./Labw	are										
Hot Cells											
Storage Tanks Other											
Sinks											
Drains											
Ventilation Drops											
ventuation Drops			<u> </u>			<u> </u>					
Drains	No.		Inch Dia.		Total ft ³						
Ventilation Drops	No.		Inch Dia.		Total ft ³						
Ventuation Brops	110.		Jilloli Bia.] i Otal it		l				
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical				
Characterize	1	2	4				1				
Equip. Release	1	2	4				1				
Pack/Load waste											
Decon/Remed.											
Final Survey	1	2	4				1				
# Lab Samples to	be collecte	d									

Building	220	Roo	om or Area	A340			
Use							
Radionuclides, Ex	tent of Cor	ntamination	1	Sealed GA	S - H-3		
Area Classification		3]				
# Floors above Ba			1				
# Floors below Ro			1				
			%	ft2			
			needing	needing			
	Total	Class 1	Remed.	Remed.	Class 2	Class 3	
Floor Area, ft ²	528					528	
Wall Area, ft ²	2376					2376	
Ceiling Area, ft ²	528					528	
							-
			Fraction	Fraction	Fraction	Fraction	Fraction
Components		Total ft3	RW	DAW	Metal	Lead	Concrete
Glove Boxes							
Hoods	_						
Benches/Tables/Desks							
Casework/Cabinets		100					
Reefers, Large Equ	-						
Misc. Equip./Labw	are						
Hot Cells							
Storage Tanks							
Other							
Sinks							
Drains							
Ventilation Drops							
Drains	No.		Inch Dia.		Total ft ³		
Ventilation Drops	No.		Inch Dia.		Total ft ³		
Ventuation Drops	140.		illich bla.] i Otai it		
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical
Characterize	1	2	4				1
Equip. Release	1	2	4				1
Pack/Load waste							
Decon/Remed.							
Final Survey	1	2	4				1
# Lab Samples to I	be collecte	d					

Building	220	Roo	om or Area	B118			
Use							
Bodiomuolidaa Ev	tant of Car	-tomination	ı	Calid UEI			
Radionuclides, Ext Area Classification			<u>!</u> 1	Solid - HE	<u>J</u>		
# Floors above Ba		3					
# Floors above Bas			ļ				
# Floors below No	OT		%	ft2		<u> </u>	İ
			needing	needing			
	Total	Class 1	Remed.	Remed.	Class 2	Class 3	
Floor Area, ft ²	177					177	
Wall Area, ft ²	796.5					796.5	
Ceiling Area, ft ²	177				†	177	
Gennig Area, it	177				<u></u>	177	
Components		Total ft3	Fraction RW	Fraction DAW	Fraction Metal	Fraction Lead	Fraction Concrete
Glove Boxes							
Hoods							
Benches/Tables/Da	Benches/Tables/Desks						
Casework/Cabinet	s	100					
Reefers, Large Equ	uipment						
Misc. Equip./Labw	are						
Hot Cells							
Storage Tanks					<u> </u>		
Other					<u> </u>		
Sinks							
Drains					<u> </u>		
Ventilation Drops					<u></u>		
Drains	No.		Inch Dia.		Total ft ³		Ì
	_		4		Total ft ³		
Ventilation Drops	No.		Inch Dia.	<u> </u>] i otai it		İ
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical
Characterize	1	2	4				1
Equip. Release	1	2	4				1
Pack/Load waste							
Decon/Remed.							
Final Survey	1	2	4				1
# Lab Samples to I	be collecte	d					

Building	220	Roo	om or Area	B122			
Use							
Radionuclides, Ex	tent of Con	ıtaminatior	1	Solid - HEU	J		
Area Classification		3	ĺ '				
# Floors above Ba			1				
# Floors below Ro			1				
			%	ft2			
			needing	needing			
	Total	Class 1	Remed.	Remed.	Class 2	Class 3	
Floor Area, ft ²	177					177	
Wall Area, ft ²	796.5					796.5	
Ceiling Area, ft ²	177					177	
			Fraction	Fraction	Fraction	Fraction	Fraction
Components		Total ft3	RW	DAW	Metal	Lead	Concrete
Glove Boxes	113	TOLATICS	I NVV	DAW	IVIELAI	Leau	Concrete
Hoods							
Benches/Tables/D	aeke						
Casework/Cabinet		100					
Reefers, Large Eq		100					
Misc. Equip./Labw	-						
Hot Cells							
Storage Tanks							
Other							
Sinks							
Drains							
Ventilation Drops							
Duniu -]]3		İ
Drains	No.		Inch Dia.		Total ft ³		
Ventilation Drops	No.		Inch Dia.		Total ft ³		
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical
Characterize	1	2	4				1
	1	2	4				1
Pack/Load waste							
Decon/Remed.							
Final Survey	1	2	4				1
Equip. Release Pack/Load waste Decon/Remed.	1	2	4				1

Building	220	Roo	om or Area	B329			
Use							
Radionuclides, Ex	tent of Cor	ntaminatior	1	Solid Seale	ed - H-3		
Area Classification		3	1 '				
# Floors above Ba			1				
# Floors below Ro			1				
			%	ft2			
			needing	needing			
	Total	Class 1	Remed.	Remed.	Class 2	Class 3	
Floor Area, ft ²	792					792	
Wall Area, ft ²	3564					3564	
Ceiling Area, ft ²	792					792	
J , .						I .	
		T (160	Fraction	Fraction	Fraction	Fraction	Fraction
Componer	nts	Total ft3	RW	DAW	Metal	Lead	Concrete
Glove Boxes							
Hoods Benches/Tables/D	aalra						
		100					
Casework/Cabinet		100					
Reefers, Large Equ	-						
Misc. Equip./Labw Hot Cells	are		 				
Storage Tanks							
Other							
Sinks							
Drains							
Ventilation Drops							
Ventuation Brops							
Drains	No.		Inch Dia.		Total ft ³		
Ventilation Drops	No.		Inch Dia.		Total ft ³		
]		1.00		
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical
Characterize	1	2	4				1
Equip. Release	1	2	4				1
Pack/Load waste							
Decon/Remed.							
Final Survey	1	2	4				1
# Lab Samples to	be collecte	d					

Building	221	Roo	om or Area	Roll-up			
Use							
			!				
Radionuclides, Ex	tent of Con	tamination					
Area Classification			1 '				
# Floors above Ba	sement		1				
# Floors below Ro	of		1				
			%	ft2]
			needing	needing			
	Total	Class 1	Remed.	Remed.	Class 2	Class 3	
Floor Area, ft ²	4568					4568]
Wall Area, ft ²	9335					9335	7
Ceiling Area, ft ²	4568					4568	1
	Į.	<u>l</u>	+				-
			Fraction				ft³
Compone	nts	Total ft3	RW	ft ³ DAW	ft ³ Metal	ft ³ Lead	Concrete
Glove Boxes	ļ						
Hoods		60					
Benches/Tables/D	esks	350					
Casework/Cabinet		1400					
Reefers, Large Eq	uipment	1000					
Misc. Equip./Labw	are	900					
Hot Cells	ļ						
Storage Tanks	ļ	60					
Other							
Sinks	ļ	40					
Drains							
Ventilation Drops	ļ						
		_	1 '	1			٦
Drains	No.		Inch Dia.		Total ft ³		4
Ventilation Drops	No.		Inch Dia.		Total ft ³		J
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical
Characterize	9	18	36				9
Equip. Release	9	18	36				9
Pack/Load waste							
Decon/Remed.							
Final Survey	9	18	36				9
# Lab Samples to	be collected	t	1				

Building	221	Ro	om or Area	C11			
Use	Solid Seale	d Fe-55, Ar	m-241, HEU				
				Calid Caal	od Eo EE Ar	m 244 UEU	
Radionuclides, Ext	tent of Con	tamination	1		eu re-55, Ai Risk Source	n-241, HEU use only	
Area Classification		3	j	OL 1, LOW	r tion ocuroo	ucc only	
# Floors above Bas		_					
# Floors below Ro	of						_
			%	ft2			
			needing	needing			
	Total	Class 1	Remed.	Remed.	Class 2	Class 3	_
Floor Area, ft ²	392					392	4
Wall Area, ft ²	871					871	
Ceiling Area, ft ²	392					392	
			Fraction	Fraction	Fraction	Fraction	Fraction
Componer	nts	Total ft3	RW	DAW	Metal	Lead	Concrete
Glove Boxes Hoods							
Benches/Tables/De	ooko						
Casework/Cabinet							
Reefers, Large Equ							
Misc. Equip./Labwa	-						
Hot Cells							
Storage Tanks							
Other							
Sinks							
Drains							
Ventilation Drops							
Drains	No.		Inch Dia.		Total ft ³		1
Ventilation Drops	No.		Inch Dia.		Total ft ³		1
]]		_
	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical
Person-hours			4				1
Characterize	1	2					
Characterize Equip. Release	1	2	4				1
Person-hours Characterize Equip. Release Pack/Load waste	1						1
Characterize Equip. Release	1						1

Building	221	Roo	om or Area	B49			
		•					
Use	Multimodal	microscopy	(door also	connects to	B51)		
Radionuclides, Ex	tent of Con	tamination		Solid Mat	Ilnat now	der Unat, seal	ed Lia DII
Area Classification	10111 OI OOII 1	3	1	Colla Mai	Onat, powe	aci Oriat, scar	ca Elq. DO
# Floors above Ba	sement						
# Floors below Ro							
# 1 10010 B010 H 110			%	ft2			1
			needing	needing			
	Total	Class 1	Remed.	Remed.	Class 2	Class 3	
Floor Area, ft ²	792					792	
Wall Area, ft ²	1576					1576	1
Ceiling Area, ft ²	792					792	
	_		Fraction	Fraction	Fraction	Fraction	Fraction
Compone	nts	Total ft3	RW	DAW	Metal	Lead	Concrete
Glove Boxes							
Hoods							
Benches/Tables/Desks		150					
Casework/Cabinets		300					
Reefers, Large Equ	uipment						
Misc. Equip./Labw		200					
Hot Cells							
Storage Tanks							
Other							
Sinks		20					
Drains							
Ventilation Drops							
Drains	No.		Inch Dia.		Total ft ³		7
			4		Total ft ³		1
Ventilation Drops	No.		Inch Dia.		j i Otai π		J
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical
Characterize	1	2	4				1
Equip. Release	1	2	4				1
Pack/Load waste							
Decon/Remed.							
Final Survey	1	2	4				1
# Lab Samples to I	be collected	t]			

_	221	Ro	om or Area	B43			
Hea	Preparing o	f camples t	o he analyz	ad in R40			
USE	r repairing o	i samples t	O De allalyz	50 III D43			
				Calid mask	منا المملات		:: DII
Dadianualidaa Evi	tant of Con	lamination			•	owder Unat, L	iquia DO,
Radionuclides, Ext Area Classification			1	(sealed UI	at, DU, & Fe	2 -00)	
# Floors above Bas		3	-				
# Floors above Bas			1				
# Floors below Ro	OI .		%	ft2			7
			needing	needing			
	Total	Class 1	Remed.	Remed.	Class 2	Class 3	
Floor Area, ft ²	392	GIGGO I	Romoun	rtomour	014002	392	1
Wall Area, ft ²	871					871	1
Ceiling Area, ft ²	392		<u> </u>			392	1
Johnsy Alea, It	002		<u>!</u>			002	4
			Fraction	Fraction	Fraction	Fraction	Fraction
Componer	nts	Total ft3	RW	DAW	Metal	Lead	Concrete
Glove Boxes							
Hoods							
Benches/Tables/De	esks	200					
Casework/Cabinets	S						
Reefers, Large Equ	uipment						
Misc. Equip./Labwa	are	100					
Hot Cells							
Storage Tanks							
Other							
Sinks							
Drains							
Ventilation Drops							
	[1		ا 3 میں ـــــــــــــــــــــــــــــــــــ		7
Drains	No.		Inch Dia.		Total ft ³		4
Ventilation Drops	No.		Inch Dia.		Total ft ³		
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical
Characterize	1	2	4				1
Equip. Release	1	2	4				1
Pack/Load waste							
Decon/Remed.		2					

Building	221	Ro	om or Area	B367			
Use							
Radionuclides, Ex Area Classification # Floors above Ba	n sement	tamination 3]	Sealed sol	id or gases,	H-3, liquid H-3	3
# Floors below Ro	of		0/	40			7
	Total	Class 1	% needing Remed.	ft2 needing Remed.	Class 2	Class 3	
Floor Area, ft ²	264		- Nome an	110111041	0.0002	264	1
Wall Area, ft ²	650					650	1
Ceiling Area, ft ²	264					264]
Compone	nts	Total ft3	Fraction RW	Fraction DAW	Fraction Metal	Fraction Lead	Fraction Concrete
Glove Boxes Hoods							
Hoods							
Benches/Tables/D							
Casework/Cabinets		200					
Reefers, Large Equip./Labw	uipment						
Misc. Equip./Labw Hot Cells	are						+
							+
Storage Tanks							+
Other Sinks							
Drains							+
Ventilation Drops							
Tonalation Drops				1	1		
Drains	No.		Inch Dia.		Total ft ³]
Ventilation Drops	No.		Inch Dia.		Total ft ³]
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical
Characterize	1	2	4	r r · · ·			1
	1	2	4				1
Equip. Release Pack/Load waste							
Decon/Remed.							
Final Survey	1	2	4				1
Decon/Remed. Final Survey # Lab Samples to	<u>.</u>		4				1

Use	Sealed gas	Kr-85, solid	d sealed Am	-241				
Radionuclides, Ex	tent of Con	tamination		Sealed gas	s Kr-85, soli	d sealed Am-2	41	
Area Classification	า	3			·			
# Floors above Ba	sement		1					
# Floors below Ro	of		1					
			%	ft2]	
			needing	needing				
	Total	Class 1	Remed.	Remed.	Class 2	Class 3		
Floor Area, ft ²	200					200		
Wall Area, ft ²	600					600		
Ceiling Area, ft ²	200					200		
Componer	nts	Total ft3	Fraction RW	Fraction DAW	Fraction Metal	Fraction Lead	Fraction Concrete	
Glove Boxes								
Hoods								
Benches/Tables/D								
Casework/Cabinet		200						
Reefers, Large Equ	uipment							
Misc. Equip./Labw	are	200						
Hot Cells								
Storage Tanks								
Other								
Sinks								
Drains								
Ventilation Drops								
			1	ī	7 2		7	
Drains	No.		Inch Dia.		Total ft ³			
Ventilation Drops	No.		Inch Dia.		Total ft ³			
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical	
Characterize	1	2	4	Jpp01			1	
Equip. Release	1	2	4				1	
	•						†	
Pack/Load waste Decon/Remed.								
Final Survey	1	2	4				1	
# Lab Samples to I	be collected	i						

Room or Area B355

NIST DCE Appendix B

Building

221

Use B333 sa	e facility as B3	21 (cloare				
liamualidas Frésidos C		or (cleare	ed of RAM u	ıse)		
dionuclides, Extent of C	ntamination		Sealed sol 3, Am-241	id Po-210, P	d-103, & seal	ed liquid H-
a Classification	3					
loors above Basement						
loors below Roof						_
		%	ft2			
		needing	needing			
Total	Class 1	Remed.	Remed.	Class 2	Class 3	
or Area, ft ² 900					900	
II Area, ft ² 1440					1440	
ling Area, ft ² 900					900	
Components	F Total ft3	Fraction RW	Fraction DAW	Fraction Metal	Fraction	Fraction Concrete
ve Boxes	TOTAL ITS	LAA	DAW	ivietai	Lead	Concrete
ods						
nches/Tables/Desks						
sework/Cabinets	100					
efers, Large Equipment	100					
c. Equip./Labware						
: Cells						
rage Tanks						
ier						
ks						
ins						
ntilation Drops						
						-
ins M	o. Ir	nch Dia.		Total ft ³		
ntilation Drops). Ir	nch Dia.		Total ft ³]
son-hours Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical
aracterize 1	2	4	1-1			1
	2	4				1
k/Load waste	1					
con/Remed.						
	2	4				1
ntilation Drops ins ntilation Drops son-hours aracterize uip. Release con/Remed.	Supvsr I	HP Tech 4 4	Shipper		Unskilled	1

Building	221	Roo	om or Area	B21			
111	Thin =====	امماریط می ساد	m D00 ar :-	rovious DC	<u>`</u>		
Use	This room	includes roo	om B23 on p	previous DC	, ∟.		
Radionuclides, Ex	tent of Cont	tamination		Sealed sol	id or gas Ni	-63, Po-210, 8	kr-85
Area Classification		3]	234104 001	ia oi gao, iti	55,15210,6	
# Floors above Ba							
# Floors below Ro							
			%	ft2			
			needing	needing			
	Total	Class 1	Remed.	Remed.	Class 2	Class 3	
Floor Area, ft ²	900					900	
Wall Area, ft ²	1440					1440	
Ceiling Area, ft ²	900					900	
					_		_
			Fraction	Fraction	Fraction	Fraction	Fraction
Componer	nts	Total ft3	RW	DAW	Metal	Lead	Concrete
Glove Boxes							
Hoods	• .	60					
Benches/Tables/D		000					
Casework/Cabinet		300					
Reefers, Large Equ		700					
Misc. Equip./Labw	are	200					
Hot Cells		00					ļ
Storage Tanks		60					
Other		00					ļ
Sinks		20					
Drains							
Ventilation Drops							
Drains	No.		Inch Dia.		Total ft ³		1
							-
Ventilation Drops	No.		Inch Dia.		Total ft ³		
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical
Characterize	1	2	4	ppu	5		1
Equip. Release	1	2	4				1
Pack/Load waste			-				
Decon/Remed.							
Final Survey	1	2	4				1
# Lab Samples to I	be collected	d	1				

Building	221	Ro	om or Area	A58			
	Sealed das	Kr-85: soli	d sealed Am	-241. Fu-1!	55. & Cs-13	7; Gd-158, Pu	-238:
Use	Liquid C-14		a ocaloa 7 iiii	Z 11, Eu 11		, ou 100, i u	200,
Radionuclides, Ex	tant of Can	tomination		Various so	alad (aaa ah	2010)	
Area Classification		3	<u> </u>	various se	aled (see ab	ove)	
# Floors above Ba	sement						
# Floors below Ro	of						_
			%	ft2			
			needing	needing			
	Total	Class 1	Remed.	Remed.	Class 2	Class 3	_
Floor Area, ft ²	200					200	
Wall Area, ft ²	600					600	_
Ceiling Area, ft ²	200					200	_
Compone	nts	Total ft3	Fraction RW	Fraction DAW	Fraction Metal	Fraction Lead	Fraction Concrete
Glove Boxes							
Hoods							
Benches/Tables/D							
Casework/Cabinet		200					
Reefers, Large Eq	-	300					
Misc. Equip./Labw Hot Cells	are	200					
Storage Tanks							
Other							
Sinks							
Drains							
Ventilation Drops							†
- P -			•				1
	No.		Inch Dia.		Total ft ³		7
Drains			1		Total ft ³		1
	No.		Inch Dia.		10tai it		
Ventilation Drops		Supver	-	Shinnar		Hackillad	Clorical
Ventilation Drops Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical
Ventilation Drops Person-hours Characterize	Mgr 1	2	HP Tech	Shipper		Unskilled	1
Ventilation Drops Person-hours Characterize Equip. Release	Mgr		HP Tech	Shipper		Unskilled	
Ventilation Drops Person-hours Characterize	Mgr 1	2	HP Tech	Shipper		Unskilled	1

Building	221	Roc	om or Area	A12				
Use	Absorption	Measureme	ent					
Radionuclides, Ex	tent of Con	tamination	ļ	Solid seale	ed Am-241			
Area Classification		3]	oona ooan	7471111211			
# Floors above Ba			1					
# Floors below Ro	of		1					
			%	ft2				
	ļ		needing	needing				
	Total	Class 1	Remed.	Remed.	Class 2	Class 3		
Floor Area, ft ²	528					528		
Wall Area, ft ²	1287					1287		
Ceiling Area, ft ²	528					528		
	•		•	•	•	•	_	
			Fraction	Fraction	Fraction	Fraction	Fraction	
Compone	nts	Total ft3	RW	DAW	Metal	Lead	Concrete	
Glove Boxes								
Hoods								
Benches/Tables/D								
Casework/Cabinet		100						
Reefers, Large Equ								
Misc. Equip./Labw	are							
Hot Cells								
Storage Tanks								
Other	ļ							
Sinks								
Drains								
Ventilation Drops								
Dunima	No.		Inch Dia.		Total ft ³		7	
Drains			4				4	
Ventilation Drops	No.		Inch Dia.		Total ft ³		_	
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical	
Characterize	1	2	4				1	
Equip. Release	1	2	4				1	
Pack/Load waste								
Decon/Remed.								
Final Survey	1	2	4				1	
# Lab Samples to I	be collected	ť]				

Building	223	Roc	om or Area	Roll-up			
Use							
USE							
			ı				
Radionuclides, Ex	tent of Con	ıtaminatior	1				
Area Classification							
# Floors above Ba	sement						
# Floors below Ro	of						_
		<u> </u>	%	ft2]
			needing	needing		I	
	Total	Class 1	Remed.	Remed.	Class 2	Class 3	
Floor Area, ft ²	4814					4814	
Wall Area, ft ²	9484					9484	
Ceiling Area, ft ²	4814					4814	
	•			<u> </u>			_
			Fraction				ft ³
Componer	nts	Total ft3	RW	ft ³ DAW	ft ³ Metal	ft ³ Lead	Concrete
Glove Boxes							
Hoods		140					
Benches/Tables/De		1485					
Casework/Cabinet		555				<u> </u>	
Reefers, Large Equ		2985					
Misc. Equip./Labw	are	1360					
Hot Cells		50					
Storage Tanks							
Other							
Sinks							
Drains						<u> </u>	
Ventilation Drops				<u> </u>		<u> </u>	
Dundun	N] Dia		Total ft ³		7
Drains	No.	 	Inch Dia.		I	}	4
Ventilation Drops	No.		Inch Dia.		Total ft ³		_
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical
Characterize	11	22	44				11
Equip. Release	11	22	44				11
Pack/Load waste							
Decon/Remed.							
Final Survey	11	22	44				11
# Lab Samples to I	be collecte	d	1]			

Building	223	Ro	om or Area	B321			
Use							
030							
Radionuclides, Ex	tent of Con	tamination	<u>1</u>	Sealed: DI	J glass, Ni-6	3	
Area Classification		3					
# Floors above Ba							
# Floors below Ro	of						7
			%	ft2			
			needing	needing			
	Total	Class 1	Remed.	Remed.	Class 2	Class 3	
Floor Area, ft ²	395					395	
Wall Area, ft ²	874					874	
Ceiling Area, ft ²	395					395	
	-		•	-	-		 "
			Fraction	Fraction	Fraction	Fraction	Fraction
Componer	nts	Total ft3	RW	DAW	Metal	Lead	Concrete
Glove Boxes							
Hoods	_						
Benches/Tables/Desks		150					
Casework/Cabinet	_	100					
Reefers, Large Equ		500					
Misc. Equip./Labw	are	600					
Hot Cells							
Storage Tanks Other							
Otner Sinks							
onks Drains							
Ventilation Drops							
ventilation brops							
Drains	No.		Inch Dia.		Total ft ³		1
Ventilation Drops	No.		Inch Dia.		Total ft ³		1
ventilation brops	140.		Jilicii Dia.		Jiotaiit		
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical
Characterize	1	2	4				1
Equip. Release	1	2	4				1
_qp							
Pack/Load waste			1				

Building	223	Roo	om or Area		В	3313	
Use							
Radionuclides, Ex	tent of Con	tamination	n	Sealed l	Jnat glass, l	icensed for ur	sealed U
Area Classification	1	3]				
# Floors above Ba			1				
# Floors below Ro	of						_
			%	ft2			
			needing	needing			
	Total	Class 1	Remed.	Remed.	Class 2	Class 3	
Floor Area, ft ²	900					900	
Wall Area, ft ²	1500					1500	
Ceiling Area, ft ²	900					900	
Componer	nte	Total ft3	Fraction RW	Fraction DAW	Fraction Metal	Fraction Lead	Fraction Concrete
Glove Boxes	າເອ	ו טומו ווט	INV	DAW	IVICIAI	Leau	
Hoods							
Benches/Tables/De	esks						
Casework/Cabinet							
Reefers, Large Equ							
Misc. Equip./Labw							
Hot Cells							
Storage Tanks							
Other							
Sinks							
Drains							
Ventilation Drops							
D t	<u>.</u> . 1		l]		7
Drains	No.		Inch Dia.		Total ft ³		4
Ventilation Drops	No.		Inch Dia.		Total ft ³		
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical
Characterize	1	2	4	J- I			1
Equip. Release	1	2	4				1
Pack/Load waste							
i dolu Lodd Wasto							
Decon/Remed.							

Building	223	Roc	om or Area		В	3167	
Use			SEM	Specimin p	rep. Lab.		
Radionuclides, Ex	tent of Cor	ntaminatior	<u>1</u>	U-nat seale	ed solid low	risk	
Area Classification		3	_				
# Floors above Ba							
# Floors below Ro	of						_
			%	ft2			1
	'		needing	needing			
	Total	Class 1	Remed.	Remed.	Class 2	Class 3	
Floor Area, ft ²	264	<u> </u>				264	
Wall Area, ft ²	715	1				715	
Ceiling Area, ft ²	264					264]
			Fraction	Fraction	Fraction	Fraction	Fraction
Componei	nts	Total ft3	RW	DAW	Metal	Lead	Concrete
Glove Boxes	ļ	<u> </u>	<u> </u>		ļI		<u> </u>
Hoods	_	L	<u> </u>		<u> </u>		<u> </u>
Benches/Tables/D		150	<u> </u>		ļ		<u> </u>
Casework/Cabinet		50	ļ!		<u> </u>		<u> </u>
Reefers, Large Eq		50	ļ!		<u> </u>		<u> </u>
Misc. Equip./Labw	are	50	ļ!		<u> </u>		<u> </u>
Hot Cells	ļ	50	ļ!		ļ		<u> </u>
Storage Tanks	ļ	<u> </u>	<u> </u>		ļ		<u> </u>
Other	1	<u> </u>	<u> </u>		<u> </u>		<u> </u>
Sinks	1	<u> </u>	<u> </u>		<u> </u>		<u> </u>
Drains	1	<u> </u>	<u> </u>		<u> </u>		<u> </u>
Ventilation Drops	ļ	<u> </u>					
Drains	No.	1	Inch Dia.	2	Total ft ³		1
Ventilation Drops	No.	-	Inch Dia.		Total ft ³		1
ventilation brops	NO.		Jilicii Dia.		Jiotai it		j
			_	01.1	Claille d	Unskilled	Clerical
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Uliakilieu	
Person-hours Characterize	Mgr 1	Supvsr 2	HP Tech 4	Snipper	Skilled	Oliskilled	1
Characterize			 	Snipper	Skilled	Oliskilled	1 1
	1	2	4	Snipper	Skilled	Offskilled	1
Characterize Equip. Release	1	2	4	Snipper	Skilled	Oliskilled	1

Note: Open doorway inside to room B165

Building	223	Roo	om or Area	B139			
	0.4700 5: 1		<u> </u>				
Use	S4700 Field	d Emission	Electron MI	croscope			
Radionuclides, Ex	tent of Con	tamination	1	U-nat seale	ed solid low	risk	
Area Classification		3					•
# Floors above Ba	sement		1				
# Floors below Ro	of						
			%	ft2			
			needing	needing			
	Total	Class 1	Remed.	Remed.	Class 2	Class 3	_
Floor Area, ft ²	88					88	
Wall Area, ft ²	300					300	
Ceiling Area, ft ²	88					88	
			Fue etter:	Fue etter	Fue e4!	Fue c 4!	Fue 441
0	-4-	T-4-1 #0	Fraction	Fraction	Fraction	Fraction	Fraction
Componer	าเร	Total ft3	RW	DAW	Metal	Lead	Concrete
Glove Boxes							
Hoods Benches/Tables/D	aaka	15					
		15 5					
Casework/Cabinet							
Reefers, Large Equip./Labw	-	10 5					
Hot Cells	ale	3					
Storage Tanks							
Other							
Sinks							
Drains							
Ventilation Drops							
Drains	No.	3	Inch Dia.	2	Total ft ³		
Ventilation Drops	No.		Inch Dia.		Total ft ³		
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical
Characterize	1	2	4				1
Equip. Release	1	2	4				1
Pack/Load waste							
Decon/Remed.							
Final Survey	1	2	4				1
# ab Camming 4-	ha aallaat-	al	- 4	Ī			
# Lab Samples to I	De COHECTE	u	1				

Building	223	Roo	om or Area	B133			
Use	JSM7100 F	T/I V Field	Emission S	canning w/	Electron Mic	croscope	
000[001111 100 1	172 1 1010	Litilocioti C	oarming w	LIOOU OIT WIN	огосооро	
Radionuclides, Ext	tent of Con	tamination	1	U-nat seale	ed solid low	risk	
Area Classification	1	3	 				
# Floors above Bas	sement						
# Floors below Roo	of						_
			%	ft2			
			needing	needing			
	Total	Class 1	Remed.	Remed.	Class 2	Class 3	
Floor Area, ft ²	264					264	
Wall Area, ft ²	520					520	
Ceiling Area, ft ²	264					264	
			Fraction	Fraction	Fraction	Fraction	Fraction
Componer	nts	Total ft3	RW	DAW	Metal	Lead	Concrete
Glove Boxes							
Hoods							
Benches/Tables/De Casework/Cabinets	esks	150					
Casework/Cabinets	s	50					
Reefers, Large Equ		125					
Misc. Equip./Labwa	are	50					
Hot Cells							
Storage Tanks							
Other							
Sinks							
Drains							
Ventilation Drops							
Drains	No.	1	Inch Dia.	2	Total ft ³		1
Ventilation Drops	No.		Inch Dia.		Total ft ³		
	l		<u> </u>	-	.		
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical
Characterize	1	2	4				1
Equip. Release	1	2	4				1
Pack/Load waste							
Decon/Remed.							
Final Survey	1	2	4				1
# Lab Samples to b	oe collecte	d					

Building	223	Roo	om or Area		В	125	
Hee	Co-57 solic	l cooled					
USE	CO-37 SOIIC	Sealeu					
Radionuclides, Ext	tent of Con	tamination	1	Co-57			
Area Classification		3	·				
# Floors above Bas	sement						
# Floors below Ro	of						
			%	ft2			
			needing	needing			
	Total	Class 1	Remed.	Remed.	Class 2	Class 3	
Floor Area, ft ²	88					88	
Wall Area, ft ²	413					413	1
Ceiling Area, ft ²	88					88	1
							=
			Fraction	Fraction	Fraction	Fraction	Fraction
Componer	nts	Total ft3	RW	DAW	Metal	Lead	Concrete
Glove Boxes							
Hoods		450					
Benches/Tables/De		150					
Casework/Cabinet		750					
Reefers, Large Equ	•	750					
Misc. Equip./Labwa Hot Cells	are	100					
Storage Tanks Other							
Sinks							
Drains							
Ventilation Drops							
ventilation brops							
Drains	No.		Inch Dia.		Total ft ³		1
Ventilation Drops	No.		Inch Dia.		Total ft ³		1
Ventuation Brops	110.		Inion Dia.		i otal it		1
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical
Characterize	1	2	4				1
Equip. Release	1	2	4				1
Pack/Load waste							
Decon/Remed.							
Final Survey	1	2	4				1
# Lab Samples to I	be collecte	d					

Building	223	Ro	om or Area	A234			
llea	Sealed Co-	-57 Sn-110	1				
036	Sealed Co-	-57, OH-113	<u>'</u>				
Radionuclides, Ex	tent of Con	ıtaminatior	1	Co-57, Sn-	119		
Area Classification	า		1				
# Floors above Ba	sement						
# Floors below Ro	of						
			%	ft2			
			needing	needing			
	Total	Class 1	Remed.	Remed.	Class 2	Class 3	1
Floor Area, ft ²	87					87]
Wall Area, ft ²	410					410	
Ceiling Area, ft ²	87					87	
			_		_		
_			Fraction	Fraction	Fraction	Fraction	Fraction
Componer	nts	Total ft3	RW	DAW	Metal	Lead	Concrete
Glove Boxes Hoods							
Benches/Tables/Des/Des/Des/Des/Des/Des/Des/Des/Des/D							
Casework/Cabinet							
Reefers, Large Equ	uipment						
Misc. Equip./Labw	are						
Hot Cells							
Storage Tanks							
Other							
Sinks Drains							
Drains							
Ventilation Drops							
			1		ا دع ا		1
Drains	No.		Inch Dia.		Total ft ³		_
Ventilation Drops	No.		Inch Dia.		Total ft ³]
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical
Characterize	1	2	4	- 44			1
Equip. Release	1	2	4				1
Pack/Load waste Decon/Remed.							
Final Survey	1	2	4				1
# Lab Samples to I	be collecte	d					

Building	223	Roo	om or Area		В	3151	
llea	Transverge	Suscental	oility / Magne	etic Field			
OSE	Transverge	Ouscopiai	Jilly / Wagin	ctio i icia			
Radionuclides, Ex	tent of Con	tamination	1	Previously	Sealed Co-	57, Sn-119	
Area Classification		3		-			
# Floors above Ba	sement						
# Floors below Ro	of				,		-
			%	ft2			
			needing	needing			
2	Total	Class 1	Remed.	Remed.	Class 2	Class 3	
Floor Area, ft ²	500					500	_
Wall Area, ft ²	1100					1100	
Ceiling Area, ft ²	500					500	
			_	_		_	_
			Fraction	Fraction	Fraction	Fraction	Fraction
Componer	nts	Total ft3	RW	DAW	Metal	Lead	Concrete
Glove Boxes							
Hoods	_	60					
Benches/Tables/D		300					
Casework/Cabinet		150					
Reefers, Large Equ		300					
Misc. Equip./Labw	are	300					
Hot Cells							
Storage Tanks							
Other							
Sinks							
Drains							
Ventilation Drops							
Drains	No.	5	Inch Dia.	2	Total ft ³		1
Ventilation Drops	No.	1	Inch Dia.	12	Total ft ³		1
- chimanon bropo			J	,	1 - 2.2		_
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical
Characterize	1	2	4				1
Equip. Release	1	2	4				1
Pack/Load waste							
Decon/Remed.							
Final Survey	1	2	4				1
# Lab Samples to I	be collecte	d					

Building	223	Ro	om or Area		Α	132	
Use	MSEL Micr	oscopy					
Radionuclides, Ex			<u>1</u>	Sealed Fe	-55		
Area Classification		3	4				
# Floors above Ba			4				
# Floors below Ro	ot		%	ft2			7
	Total	Class 1	needing Remed.	needing Remed.	Class 2	Class 2	
Flac: A 642	Total	Class	Remea.	Remea.	Class 2	Class 3	_
Floor Area, ft ²	800					800	
Wall Area, ft ²	1200					1200	
Ceiling Area, ft ²	800					800	
			Evention.	Evention	Evention:	Eventio-	Evention
Camana	-1-	Total #0	Fraction	Fraction	Fraction	Fraction	Fraction
Clave Royan	าเร	Total ft3	RW	DAW	Metal	Lead	Concrete
Glove Boxes Hoods							
Benches/Tables/D	ooko	120					
Casework/Cabinet		100					1
		300	<u> </u>				
Reefers, Large Equip./Labw	aro	80					
Hot Cells	aie	00					
Storage Tanks							
Other Sinks							
Drains							
Ventilation Drops							
			•				
Drains	No.		Inch Dia.		Total ft ³		
Ventilation Drops	No.		Inch Dia.		Total ft ³		
•	ļ		_				₫
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical
Characterize	1	2	4				1
Equip. Release Pack/Load waste	1	2	4				1
Pack/Load waste							
Decon/Remed.							
Final Survey	1	2	4				1
# Lab Samples to I	be collecte	d					

Building	223	Roo	om or Area		A	150	
	01 1 5						
Use	Stucture De	estructon M	etnods				
Radionuclides, Ex	tent of Con	tamination	1	Formerly S	Sealed Co-57	7	
Area Classification		3	·	,			
# Floors above Ba	sement						
# Floors below Ro	of						
			%	ft2			
			needing	needing			
	Total	Class 1	Remed.	Remed.	Class 2	Class 3	
Floor Area, ft ²	528					528	
Wall Area, ft ²	1011					1011	
Ceiling Area, ft ²	528					528	
			Fue #4!	Fue etter:	Fue a4! - ::	Fue 44	Fue atten
			Fraction	Fraction	Fraction	Fraction	Fraction
Componer	nts	Total ft3	RW	DAW	Metal	Lead	Concrete
Glove Boxes							
Hoods	_	80					
Benches/Tables/D		300					
Casework/Cabinet		100					
Reefers, Large Equ	-	200					
Misc. Equip./Labw	are	75					
Hot Cells							
Storage Tanks							
Other							
Sinks							
Drains							
Ventilation Drops							
Drains	No.	3	Inch Dia.	2	Total ft ³		1
Ventilation Drops	No.	1	Inch Dia.	12	Total ft ³		1
		-	1	<u> </u>	J [J
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical
Characterize	1	2	4				1
Equip. Release	1	2	4				1
Pack/Load waste							
Decon/Remed.							
Final Survey	1	2	4				1
# Lab Samples to I	be collecte	d					

Building	223	Roo	om or Area		А	.232	
Use			>	८-ray Diffrad	ction		
				· · · · · · · · · · · · · · · · · · ·			
Radionuclides, Ex			<u> </u>		Seale	ed Fe-55	
Area Classification		3					
# Floors above Ba							
# Floors below Ro	of		0/	£4.0	I I		1
			%	ft2			
	Total	Class 4	needing	needing Remed.	Class 2	Class 2	
F1 A 42	Total	Class 1	Remed.	Remea.	Class 2	Class 3	
Floor Area, ft ²	900					900	-
Wall Area, ft ²	1440					1440	4
Ceiling Area, ft ²	900					900]
			Fraction	Fraction	Fraction	Fraction	Fraction
Componer	ata	Total ft3	RW	DAW	Metal	Lead	Concrete
Glove Boxes	ils	10tai its	I I	DAW	IVIELAI	Leau	Concrete
Hoods							
Benches/Tables/De	esks	150					
Casework/Cabinet		100					
Reefers, Large Equ		750					
Misc. Equip./Labw	-	100					
Hot Cells							
Storage Tanks							
Other							
Sinks							
Drains							
Ventilation Drops							
	ı		1 1		1 . 1		1
Drains	No.		Inch Dia.		Total ft ³		1
Ventilation Drops	No.		Inch Dia.		Total ft ³]
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical
Characterize	1	2	4				1
Equip. Release	1	2	4				1
Pack/Load waste							
Decon/Remed.							
Final Survey	1	2	4				1
# Lab Samples to I	be collecte	d					

Building	224	Ro	om or Area	Roll-up			
Use							
Radionuclides, Ex	tont of Cor	ntaminatio	2				
Area Classification		lammatio	i				
# Floors above Ba							
# Floors below Ro							
			%	ft2			
			needing	needing			
	Total	Class 1	Remed.	Remed.	Class 2	Class 3	
Floor Area, ft ²	1665					1665	
Wall Area, ft ²	3300					3300	
Ceiling Area, ft ²	1665					1665	
	-	-	-	-	•	-	•
			Fraction				
Componei	nts	Total ft3	RW	ft ³ DAW	ft ³ Metal	ft ³ Lead	ft ³ Concrete
Glove Boxes							
Hoods		80					
Benches/Tables/D		420					
Casework/Cabinet		400					
Reefers, Large Eq		400					
Misc. Equip./Labw	are	175					
Hot Cells							
Storage Tanks		4					
- 41							
Other							
Sinks		30					
Sinks Drains		30					
Sinks		30					
Sinks Drains		30					
Sinks Drains Ventilation Drops	No	30	Inch Dia		Total ft ³		
Sinks Drains Ventilation Drops Drains	No.	30	Inch Dia.		Total ft ³		
Sinks Drains Ventilation Drops	No. No.	30	Inch Dia.		Total ft ³		
Sinks Drains Ventilation Drops Drains		Supvsr	4	Shipper	4	Unskilled	Clerical
Sinks Drains Ventilation Drops Drains Ventilation Drops	No. Mgr 3	Supvsr 6	Inch Dia.	Shipper	Total ft ³	Unskilled	3
Sinks Drains Ventilation Drops Drains Ventilation Drops Person-hours Characterize Equip. Release	No. Mgr	Supvsr	Inch Dia.	Shipper	Total ft ³	Unskilled	
Sinks Drains Ventilation Drops Drains Ventilation Drops Person-hours Characterize Equip. Release Pack/Load waste	No. Mgr 3	Supvsr 6	Inch Dia. HP Tech 12	Shipper	Total ft ³	Unskilled	3
Sinks Drains Ventilation Drops Drains Ventilation Drops Person-hours Characterize Equip. Release	No. Mgr 3	Supvsr 6	Inch Dia. HP Tech 12	Shipper	Total ft ³	Unskilled	3

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	raction oncrete
C-14 liquid unsealed ft2 needing Remed. Class 2 Class 3 625 1200 625 n Fraction Fraction Fraction Fr	
ft2 needing Remed. Class 2 Class 3 625 1200 625 n Fraction Fraction Fraction Fr	
ft2 needing Remed. Class 2 Class 3 625 1200 625 n Fraction Fraction Fraction Fr	
ft2 needing Remed. Class 2 Class 3 625 1200 625 n Fraction Fraction Fraction Fr	
needing Class 2 Class 3	
needing Class 2 Class 3	
needing Class 2 Class 3	
. Remed. Class 2 Class 3 625 1200 625 625 Fraction Fracti	
625 1200 625 n Fraction Fraction Fr	
1200 625 n Fraction Fraction Fr	
n Fraction Fraction Fr	
n Fraction Fraction Fraction Fr	
DAW Metal Lead Co	ncrete
+ + + + + + + + + + + + + + + + + + + +	
 	
T	
. Land I otal ft	
h Shipper Skilled Unskilled C	lerical
	1
	1
	1
a	a. Total ft ³ Total ft ³ Ch Shipper Skilled Unskilled C

Building 224 Use Aerosol M Radionuclides, Extent of Co Area Classification # Floors above Basement # Floors below Roof				e Character	rization	
Radionuclides, Extent of Co Area Classification # Floors above Basement	ntamination			e Characte	ization	
Area Classification # Floors above Basement			Hootono Da			
Area Classification # Floors above Basement		•	usolobe Ra	itio Gas Chr	omatograph	v sealed
Area Classification # Floors above Basement		1		-241, Po-21	• •	<i>y</i> ,
	•]				
# Floors below Roof		1				
						1
		%	ft2			ı
		needing	needing			i
Total	Class 1	Remed.	Remed.	Class 2	Class 3	i
Floor Area, ft ² 200					200	ı
Wall Area, ft ² 600					600	i
Ceiling Area, ft ² 200					200	
Components	Total ft3	Fraction RW	Fraction DAW	Fraction Metal	Fraction Lead	Fraction Concrete
Glove Boxes						
Hoods	80					
Benches/Tables/Desks	120					
Casework/Cabinets	100					
Reefers, Large Equipment						
Misc. Equip./Labware	100					
Hot Cells						
Storage Tanks						
Other	40					
Sinks	10					
Drains						
Ventilation Drops				<u> </u>		
Drains No	. 2	Inch Dia.	2	Total ft ³		ı
Ventilation Drops No		Inch Dia.	12	Total ft ³		ı
	· ·					
Person-hours Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical
Characterize 1	2	4				1
Equip. Release 1	2	4				1
Pack/Load waste						
Decon/Remed.						
Final Survey 1	2	4				1

Building	224	Roc	om or Area	B154			
11		=	0 T				
Use	Biosensors	Fabrication	1 & Testing				
Radionuclides, Ex	tent of Cor	ıtaminatior	, !	Previously	powder-Un	at, Thnat	
Area Classification		3		·			
# Floors above Ba	sement						
# Floors below Ro	of		<u> </u>				
			%	ft2			İ
	Total		needing	needing			ı
2	(ft³)	Class 1	Remed.	Remed.	Class 2	Class 3	İ
Floor Area, ft ²	840					840	ı
Wall Area, ft ²	1500				<u> </u>	1500	ı
Ceiling Area, ft ²	840					840	r
							- 4
	_		Fraction	Fraction	Fraction	Fraction	Fraction
Componer	ıts	Total ft3	RW	DAW	Metal	Lead	Concrete
Glove Boxes		 	ļ/		_	<u> </u>	
Hoods		<u> </u>				<u> </u>	
Benches/Tables/D			ļ		<u> </u>	<u> </u>	
Casework/Cabinet			ļ		<u> </u>	 	
Reefers, Large Eq	uipment		ļ		<u> </u>	<u> </u>	
Misc. Equip./Labw	are	<u> </u>			<u> </u>	 	
Hot Cells		<u> </u>		 	<u> </u>		
Storage Tanks Other		<u> </u>		 	<u> </u>		
Other				 			
Sinks			 	 	 	 	
Drains		-	 	 	 	-	
Ventilation Drops	ŀ				<u> </u>		
Drains	No.		Inch Dia.		Total ft ³		ı
Ventilation Drops	No.		Inch Dia.		Total ft ³		l
ventilation brops	140.	<u> </u>	Jilich Dia. J		Jiotaiit		
1			LID T	Shipper	Skilled	Unskilled	Clerical
Person-hours	Mgr	Supvsr	HP Tech	Cimppei	•		
Person-hours Characterize	Mgr 1	Supvsr 2	HP Tech	Cimpper			1
				Ошррег			1
	1	2	4	Спррег			
Characterize Equip. Release	1	2	4	Опере			

Building	226	Roo	om or Area				
11							
Use							
			!				
Radionuclides, Ex	tent of Con	ıtaminatior	า				
Area Classification							
# Floors above Ba			ĺ				
# Floors below Ro	of						_
			%	ft2			
			needing	needing			
2	Total	Class 1	Remed.	Remed.	Class 2	Class 3	
Floor Area, ft ²	368					368	
Wall Area, ft ²	1144					1144	
Ceiling Area, ft ²	368					368	
							2
_			Fraction	. 2	- 2	- 2 -	ft ³
Componer	nts	Total ft3	RW	ft ³ DAW	ft ³ Metal	ft ³ Lead	Concrete
Glove Boxes					<u> </u>		
Hoods	_				<u> </u>		
Benches/Tables/D		180			<u> </u>		
Casework/Cabinet		180			<u> </u>		
Reefers, Large Eq					<u> </u>		
Misc. Equip./Labw	are		_		_	-	
Hot Cells			_		_	-	
Storage Tanks			 		<u> </u>		
Other			 		<u> </u>		
Sinks			 				
Drains			 				
Ventilation Drops					<u> </u>		
Drains	No.		Inch Dia.		Total ft ³		
Ventilation Drops	No.		Inch Dia.		Total ft ³		
ventuation brops	NO.		Jilicii bia.		Jiotaiit		l
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical
Characterize	2	4	8				2
Equip. Release	2	4	8				2
Pack/Load waste							
Final Survey	2	4	8				2
Decon/Remed. Final Survey # Lab Samples to	•	1	8				2

Building	226	Roo	om or Area	B325			
Use	Co-57 solid	sealed sou	urce only				
Radionuclides, Ex	tent of Con	tamination	1		Sealed C	o-57 only	
Area Classification		3	<u></u>		Ocalog C	o or only	
# Floors above Ba		-					
# Floors below Ro	of						
			%	ft2			
			needing	needing			
2	Total	Class 1	Remed.	Remed.	Class 2	Class 3	
Floor Area, ft ²	176					176	
Wall Area, ft ²	584					584	
Ceiling Area, ft ²	176					176	
			Fue still	Fue all si	Fue office	F.,	Fue 44
0	.4.	T-4-1 #0	Fraction	Fraction	Fraction	Fraction	Fraction
Componer Glove Boxes	its I	Total ft3	RW	DAW	Metal	Lead	Concrete
Hoods							
Benches/Tables/De	oeke	100					
Casework/Cabinet		100					
Reefers, Large Equ		100					
Misc. Equip./Labw	•						
Hot Cells							
Storage Tanks							
Other							
Sinks							
Drains							
Ventilation Drops							
_			1		1 3		İ
Drains	No.		Inch Dia.		Total ft ³		
Ventilation Drops	No.		Inch Dia.		Total ft ³		
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical
Characterize	1	2	4				1
Equip. Release	1	2	4				1
Pack/Load waste							
Decon/Remed.							
Final Survey	1	2	4				1
# Lab Samples to I	be collecte	d					

Building	226	Roo	om or Area	B159			
Use	Mixed by p	roduct solid	l material st	orage only			
Radionuclides, Ex	tent of Con	tamination	1	solid	storage onl	y (Cs-137/C	o-60)
Area Classification		3	1			y (= = = = = = = = = = = = = = = = = =	
# Floors above Ba		-					
# Floors below Ro	of		1				
			%	ft2			
			needing	needing			
	Total	Class 1	Remed.	Remed.	Class 2	Class 3	
Floor Area, ft ²	192					192	
Wall Area, ft ²	560					560	
Ceiling Area, ft ²	192					192	
			Fraction	Fraction	Fraction	Fraction	Fraction
Componer	nts	Total ft3	RW	DAW	Metal	Lead	Concrete
Glove Boxes							
Hoods		80					
Benches/Tables/D	Benches/Tables/Desks						
Casework/Cabinet		80					
Reefers, Large Equ	-						
Misc. Equip./Labw	are						
Hot Cells							
Storage Tanks							
Other							
Sinks							
Drains							
Ventilation Drops							
Duning	No.		luah Dia		Total ft ³		
Drains	No.		Inch Dia.				
Ventilation Drops	No.		Inch Dia.		Total ft ³		
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical
Characterize	1	2	4				1
Equip. Release	1	2	4				1
Pack/Load waste							
Decon/Remed.							
Final Survey	1	2	4				1
# Lab Samples to I	be collecte	d					

Building	Building 227 Room or Area Roll-up										
11											
Use											
			ļ								
Radionuclides, Ex	tent of Cor	ntamination	1								
Area Classification											
# Floors above Ba											
# Floors below Ro	of										
			%	ft2							
			needing	needing							
	Total	Class 1	Remed.	Remed.	Class 2	Class 3					
Floor Area, ft ²	7749	1265				6484					
Wall Area, ft ²	15665	2996				12669					
Ceiling Area, ft ²	7749	1265				6484					
							•				
			Fraction	•		•	ft ³				
Componer	nts	Total ft3	RW	ft ³ DAW	ft ³ Metal	ft ³ Lead	Concrete				
Glove Boxes	ļ										
Hoods		750									
Benches/Tables/D		2380									
Casework/Cabinet		4980									
Reefers, Large Eq	-	3775									
Misc. Equip./Labw	are	1475									
Hot Cells	ļ										
Storage Tanks		20									
Other		12									
Sinks		129									
Drains		2.6									
Ventilation Drops		13.9									
Drains	N		luada Dia		Total ft ³		_				
	No.		Inch Dia.		⊥						
Ventilation Drops	No.		Inch Dia.		Total ft ³						
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical				
Characterize	24	48	96				24				
Equip. Release	36	72	144				36				
Pack/Load waste											
Decon/Remed.											
Final Survey	24	48	96				24				
# Lab Samples to be collected 5											

Building	227	Roo	om or Area	A126						
-,										
		natography, GLD, solid sealed: Ni-63. Also solid HEU source								
Use	authorized	(15 Bq low risk)								
Padianualidas Evi	tant of Can	tomination		Sooled Ni	63 only, soli	A UEII				
Radionuclides, Ext Area Classification		3	!]	Sealed IVI-	os offiy, son	u neu				
# Floors above Ba		<u> </u>								
# Floors below Ro										
# 1 10013 BC10# 100	01		%	ft2						
			needing	needing						
	Total	Class 1	Remed.	Remed.	Class 2	Class 3				
Floor Area, ft ²	1200					1200				
Wall Area, ft ²	2000					2000				
Ceiling Area, ft ²	1200					1200				
<u> </u>							1			
			Fraction	Fraction	Fraction	Fraction	Fraction			
Componer	nts	Total ft3	RW	DAW	Metal	Lead	Concrete			
Glove Boxes										
Hoods	_	120								
Benches/Tables/D										
Casework/Cabinet		2000								
Reefers, Large Equ	-	700								
Misc. Equip./Labw	are	100								
Hot Cells		20								
Storage Tanks Other		20								
Sinks		30								
Drains		30			 					
Ventilation Drops					 					
. Januarion Diopo			<u>I</u>		1					
Drains	No.	1	Inch Dia.	2	Total ft ³					
Ventilation Drops	No.	•	Inch Dia.	<u>-</u>	Total ft ³					
			1		1 - 0.00		1			
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical			
Characterize	1	2	4				1			
Equip. Release	1	2	4				1			
Pack/Load waste										
Decon/Remed.										
Final Survey	1	2	4				1			
# Lab Samples to I	be collecte	d								

Building	227	Roo	om or Area	B147			
Use	Instrument	Developme	ent				
		·					
Radionuclides, Ex	-		1	Sealed H-3	3 only		
Area Classification		3					
# Floors above Ba							
# Floors below Ro	of		0/	610			
			%	ft2			
			needing	needing			
2	Total	Class 1	Remed.	Remed.	Class 2	Class 3	
Floor Area, ft ² Wall Area, ft ²	375					375	
Wall Area, ft ²	900					900	
Ceiling Area, ft ²	375					375	
			Fraction	Fraction	Fraction	Fraction	Fraction
Componer	nts	Total ft3	RW	DAW	Metal	Lead	Concrete
Glove Boxes							
Hoods							
Benches/Tables/D		100					
Casework/Cabinet	_	100					
Reefers, Large Equ	-	600					
Misc. Equip./Labw	are	100					
Hot Cells							
Storage Tanks							
Other		4.0					
Sinks		10					
Drains							
Ventilation Drops							
Duning	Na l		luada Dia	0	Total ft ³		
Drains	No.	1	Inch Dia.	2	4		
Ventilation Drops	No.		Inch Dia.		Total ft ³		
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical
Characterize	1	2	4				1
Equip. Release	1	2	4				1
Pack/Load waste							
Decon/Remed.							
Final Survey	1	2	4				1
# Lab Samples to I	be collecte	d					

Building	227	Roo	om or Area	B326			
1	Office 11.00	عادات الم	uroo formali	in room: in O	1004 65 500		
Hea	performed				.004, so qua	arterly surve	ys
USE	penomied	urilli 2000,	inen decom	missioneu.			
Radionuclides, Ex	tent of Con	tamination	1	Formerly u	nsealed U2	33	
Area Classification		3]	·			
# Floors above Ba		_					
# Floors below Ro	of						
			% needing	ft2 needing			
	Total	Class 1	Remed.	Remed.	Class 2	Class 3	
Floor Area, ft ²	400					400	
Wall Area, ft ²	800					800	
Ceiling Area, ft ²	400					400	
Componer	nts	Total ft3	Fraction RW	Fraction DAW	Fraction Metal	Fraction Lead	Fraction Concrete
Glove Boxes							
Hoods	_						
Benches/Tables/D		400					
Casework/Cabinet	_						
Reefers, Large Equ		000					
Misc. Equip./Labw	are	200					
Hot Cells							
Storage Tanks Other							
Sinks							
Drains							
Ventilation Drops							
a.ioii biopo				1	<u> </u>		
Drains	No.		Inch Dia.		Total ft ³		
Ventilation Drops	No.		Inch Dia.		Total ft ³		
			1		1 2		
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical
Characterize	1	2	4				1
Equip. Release	1	2	4				1
Pack/Load waste							
Decon/Remed.							
Final Survey	1	2	4				1
# Lab Samples to I	be collecte	d	1				

Building	227	Roc	om or Area	B141			
llea	Sample Pre	n Radioa	ctive Waste	Storage S	olid: C-14 I	iquid: C-14	H_3
030	oumpio i ic	<u>эр., гаанаа</u>	ouve vvaste	Otorage, O	Olid. O 14 L	Iquiu. O 14	, 110
Radionuclides, Ex	tent of Con	tamination	1	H-3, C-14			
Area Classification		3	1	,			
# Floors above Basement		1					
# Floors below Ro	of	2					
			%	ft2			i
			needing	needing			i
	Total	Class 1	Remed.	Remed.	Class 2	Class 3	i
Floor Area, ft ²	200					200	İ
Wall Area, ft ²	720					720	i
Ceiling Area, ft ²	200					200	1
· ·					•		
			Fraction	Fraction	Fraction	Fraction	Fraction
Componer	nts	Total ft3	RW	DAW	Metal	Lead	Concrete
Glove Boxes							
Hoods		100					
Benches/Tables/Desks		300					
Casework/Cabinets		80					
Reefers, Large Eqi	uipment	150					
Misc. Equip./Labw	are	80					
Hot Cells							
Storage Tanks							
Other							
Sinks		10					
Drains		0.1					
Ventilation Drops							
	ı		1 '		12		i
Drains	No.	1	Inch Dia.	2	Total ft ³	0.1	İ
Ventilation Drops	No.		Inch Dia.		Total ft ³		
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical
Characterize	1	2	4	- 66			1
Equip. Release	1	2	4				1
Pack/Load waste							
Decon/Remed.							
Final Survey	1	2	4				1
# Lab Samples to I	be collecte	d	1				

Building	227	Roo	om or Area	B143			
Use	Analytical I C-14. H-3	nstrumenta	tion, Solid s	ealed: Ba-1	33, Po-210	. Liq. LSC c	al sources:
						Po-210. Liq.	LSC cal
Radionuclides, Ex) 1	sources: C	-14. H-3		
Area Classification		3					
# Floors above Ba							
# Floors below Ro	of		0/	40	ı	I	Ì
			% needing	ft2 needing			
	Total	Class 1	Remed.	Remed.	Class 2	Class 3	
Floor Area, ft ²	150					150	
Wall Area, ft ²	600					600	
Ceiling Area, ft ²	150					150	
Compone	nts	Total ft3	Fraction RW	Fraction DAW	Fraction Metal	Fraction Lead	Fraction Concrete
Glove Boxes				5/311	otai		301101010
Hoods							
Benches/Tables/D	esks	80					
Casework/Cabinet		80					
Reefers, Large Eq		200					
Misc. Equip./Labw	-	20					
Hot Cells							
Storage Tanks							
Other							
Sinks		20					
Drains							
Ventilation Drops							
	I		1	1	1 ^	·	1
Drains	No.		Inch Dia.		Total ft ³		
Ventilation Drops	No.		Inch Dia.		Total ft ³		
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical
Characterize	1	2	4				1
Equip. Release	1	2	4				1
Pack/Load waste							
Dagan/Damad							
Decon/Remed. Final Survey	1	2	4				1

Building	227	Roo	om or Area	B243			
Use	Engineered	l Soft Nano	materials, R	Radioactive	Waste Stora	age	
'							
Dadianuslidas C-	tant of Car	40 mir = 4! = ::				led: P-32. Li	quid: C-14,
Radionuclides, Ex) 1	P-32, H-3,	S-35		
		3	ł				
# Floors above Bar # Floors below Ro		1					
# Floors below Ro	OI		%	ft2			
			needing	needing			
	Total	Class 1	Remed.	Remed.	Class 2	Class 3	
Floor Area, ft ²	1200	01400 1	rtomou	rtomour	0.000 2	1200	
Wall Area, ft ²	1600					1600	
Ceiling Area, ft ²	1200					1200	
Johnny Alba, it	1200		<u> </u>			1200	
			Fraction	Fraction	Fraction	Fraction	Fraction
Componer	nts	Total ft3	RW	DAW	Metal	Lead	Concrete
Glove Boxes	- -						
Hoods		80	0.1		1		
Benches/Tables/D	esks	300	-				
Casework/Cabinet	s	250					
Reefers, Large Equ	uipment	600					
Misc. Equip./Labw	-	300					
Hot Cells							
Storage Tanks							
Other							
Sinks		10					
Drains		0.1					
Ventilation Drops							
Drains	No.	1	Inch Dia.	2	Total ft ³	0.1	
Ventilation Drops	No.	1	Inch Dia.	6	Total ft ³		
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical
Characterize	1	2	4				1
Equip. Release	1	2	4				1
Pack/Load waste							
Decon/Remed.							
Final Survey	1	2	4				1
# Lab Samples to I	be collecte	d					

Building	227	Roo	om or Area	B333			
Use	Thermo Gr	avimetric A	nalysis				
Radionuclides, Ex	tant of Car	tamination	,	U-233 liqui	d		
Area Classification		3	' 1	0-233 ilqui	u		
# Floors above Ba		<u> </u>	1				
# Floors below Ro			1				
# 1 10010 B01011 110			%	ft2			
			needing	needing			
	Total	Class 1	Remed.	Remed.	Class 2	Class 3	
Floor Area, ft ²	288					288	
Wall Area, ft ²	900					900	
Ceiling Area, ft ²	288					288	
							-
_			Fraction	Fraction	Fraction	Fraction	Fraction
Componer	nts	Total ft3	RW	DAW	Metal	Lead	Concrete
Glove Boxes							
Hoods	_	100					
Benches/Tables/D							
Casework/Cabinet		200					
Reefers, Large Eq		75					
Misc. Equip./Labw	are	100					
Hot Cells							
Storage Tanks							
Other		10					
Sinks Drains		10					
Ventilation Drops							
Drains	No.	1	Inch Dia.	2	Total ft ³		
Ventilation Drops	No.	-	Inch Dia.		Total ft ³		
7 0 man 2 map 2]] . •		
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical
Characterize	1	2	4				1
Equip. Release	1	2	4				1
Pack/Load waste							
Decon/Remed.							
Final Survey	1	2	4				1
# Lab Samples to I	be collecte	d					

Building	227	Roo	om or Area	A316			
Use	Spectropho	otometric ce	ertifications,	previously	H-3 solid se	ealed	
	•		·	•			
Radionuclides, Ex) 1	Formerly s	ealed H-3 o	nly	
Area Classification		3					
# Floors above Ba							
# Floors below Ro	of		0/	610	T	T	1
			%	ft2			
	Total	Class 4	needing	needing	Class 2	Class 2	
E. A 6,2	Total	Class 1	Remed.	Remed.	Class 2	Class 3	
Floor Area, ft ²	1200					1200	
Wall Area, ft ²	1800					1800	
Ceiling Area, ft ²	1200					1200	
			F	F 41	F	F 41	-
0	-4-	T-4-1 #40	Fraction	Fraction	Fraction	Fraction	Fraction
Componer	าเร	Total ft3	RW	DAW	Metal	Lead	Concrete
Glove Boxes Hoods							
Benches/Tables/D		F00					
Casework/Cabinet		500					
Reefers, Large Eq		200 400					
Misc. Equip./Labw	•	200					
Hot Cells	ale	200					
Storage Tanks							
Other							
Sinks							
Drains							
Ventilation Drops							
Vontaida Bropo							
Drains	No.		Inch Dia.		Total ft ³		
Ventilation Drops	No.		Inch Dia.		Total ft ³		
Tommation Bropo	110.		Jillon Bia.		1.0101.11		
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical
Characterize	1	2	4				1
Equip. Release	1	2	4				1
Pack/Load waste							
Decon/Remed.							
Final Survey	1	2	4				1
# Lab Samples to I	be collecte	d					

Building	227	Roo	om or Area	B353			
Use	Inorganic C	hemical Me	etrology				
Radionuclides, Ex	tent of Con	tamination	1	Solid: Ph-2	210. Liquid: I	Ph-210	
Area Classification		1	· 	Colla. 1 b Z	- ro. Liquiu.	1 0 2 10	
# Floors above Ba		3					
# Floors below Ro		1					
		•	%	ft2			
			needing	needing			
	Total	Class 1	Remed.	Remed.	Class 2	Class 3	
Floor Area, ft ²	559	559					
Wall Area, ft ²	899	899					
Ceiling Area, ft ²	559	559					
			Fraction	Fraction	Fraction	Fraction	Fraction
Componer	nts	Total ft3	RW	DAW	Metal	Lead	Concrete
Glove Boxes							
Hoods		50					
Benches/Tables/De	esks	200					
Casework/Cabinet	s	300					
Reefers, Large Equ	uipment	100					
Misc. Equip./Labw		50					
Hot Cells							
Storage Tanks							
Other		7					
Sinks		4					
Drains		0.9					
Ventilation Drops							
					•		
Drains	No.	1	Inch Dia.	3	Total ft ³	0.9	
Ventilation Drops	No.		Inch Dia.		Total ft ³		
			•		•		
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical
Characterize	4	8	16				4
Equip. Release	8	16	32				8
Pack/Load waste							
Decon/Remed.							
Final Survey	4	8	16				4
# Lab Samples to I	be collecte	d	1				

Note: Elevated activity found on hood, countertop, equipment & floor during 2023 scoping survey

Building	227	Roo	om or Area	B345			
Use	High Resol	ution Mass.	Spec.				
Dadiamuslidas Es	446-0	4		0 11 1 01 01			
Radionuclides, Ex) 1	Solid: Pb-210), liquid: I-129 a	authorized not	used.
Area Classification		1					
# Floors above Ba							
# Floors below Ro	Oτ		%	ft2	1		Ī
			needing	needing			
	Total	Class 1	Remed.	Remed.	Class 2	Class 3	
Floor Area, ft ²				Keilleu.	Class 2	Class 3	
Wall Area, ft ²	288	288					
	900	900					
Ceiling Area, ft ²	288	288					
			Fraction	Fraction	Fraction	Fraction	Fraction
Compose	ate	Total #2	RW				
Componer Glove Boxes	แธ I	Total ft3	IT VV	DAW	Metal	Lead	Concrete
Hoods		100					
Benches/Tables/D	aaka	100					
Casework/Cabinet		120					
		120					
Reefers, Large Equ		100					
Misc. Equip./Labw Hot Cells	are	100					
Storage Tanks							
Other							
Otner Sinks		10					
Drains		10					
Ventilation Drops					<u> </u>	<u> </u>	
Drains	No.		Inch Dia.		Total ft ³		
Ventilation Drops	No.		Inch Dia.		Total ft ³		
ventilation brops	NO.		ilicii bia.] i Otal It		
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical
Characterize	4	8	16				4
Equip. Release	8	16	32				8
Pack/Load waste		-					
Decon/Remed.							
Final Survey	4	8	16				4
		-			•		
# Lab Samples to I	be collecte	d	1				
•				_			

Building	227	Roo	om or Area	B343-1			
Use	Clean Roor	n, liquid: l-	129. Solid: F	Pb-210			
Radionuclides, Ex	tent of Con	taminatior	1	liquid: I-12	9. Solid: Pb	-210	
Area Classification	n [3	·				
# Floors above Ba	sement	2					
# Floors below Ro	of	2					
			%	ft2			
			needing	needing			
	Total	Class 1	Remed.	Remed.	Class 2	Class 3	
Floor Area, ft ²	150					150	
Wall Area, ft ²	450					450	
Ceiling Area, ft ²	150					150	
_			Fraction	Fraction	Fraction	Fraction	Fraction
Componer	nts	Total ft3	RW	DAW	Metal	Lead	Concrete
Glove Boxes							
Hoods	ļ	40					
Benches/Tables/D		100					
Casework/Cabinet	l l						
Reefers, Large Equ							
Misc. Equip./Labw	are	25					
Hot Cells	ļ						
Storage Tanks	ļ						
Other	ļ	5					
Sinks	ļ	5					
Drains		0.3					
Ventilation Drops							
			1		1 4	·	Ī
Drains	No.	1	Inch Dia.	2	Total ft ³	0.3	
Ventilation Drops	No.		Inch Dia.		Total ft ³		
Darson hours	Man	Cumiran	UD Took	Chinner	Chilled	الممادناادط	Clarias
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical
Characterize	1	2	4				1
Equip. Release	1	2	4				1
Pack/Load waste							
Decon/Remed.	4		4				
Final Survey	1	2	4				1
# Lab Samples to I				<u> </u>			

Note: detectable activity slightly above background in hood from 2023 scoping survey.

Building	227	Roo	om or Area	B225			
Use	Quantitativ	e Genetics					
Radionuclides, Ex	tent of Con	tamination	1	P-32 only,	short 1/2 life	е	
Area Classification	า	3					
# Floors above Ba		2					
# Floors below Ro	of	2					
			%	ft2			
			needing	needing			
	Total	Class 1	Remed.	Remed.	Class 2	Class 3	
Floor Area, ft ²	564					564	
Wall Area, ft ²	903					903	
Ceiling Area, ft ²	564					564	
			Fraction	Fraction	Fraction	Fraction	Fraction
Componer	nts	Total ft3	RW	DAW	Metal	Lead	Concrete
Glove Boxes							
Hoods	_	60					
Benches/Tables/D		200					
Casework/Cabinet		600					
Reefers, Large Eq		300					
Misc. Equip./Labw	are	150					
Hot Cells							
Storage Tanks							
Other		40					
Sinks		10					
Drains		0.6					
Ventilation Drops		6.9					
Drains	No.	2	Inch Dia.	2	Total ft ³	0.6	
Ventilation Drops	No.	1	Inch Dia.	10	Total ft ³	6.9	
Ventuation Brops	110.	'	illon Dia.	10] i Otai it	0.0	
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical
Characterize	1	2	4				1
Equip. Release	1	2	4				1
Pack/Load waste							
Decon/Remed.							
Final Survey	1	2	4				1
# Lab Samples to I	be collecte	d					

Building	227	Roo	om or Area	A230			
Use	Antibody M	letrology					
Dadiana Kalaa En	445-0	4		11 4 P 2	I I I I NP4		
Radionuclides, Ex) 1	U-nat liquid	d Uranyl Nit	rate	
Area Classification		3					
# Floors above Ba							
# Floors below Ro	OT		%	ft2	1	1	1
			needing	needing			
	Total	Class 1	Remed.	Remed.	Class 2	Class 3	
Floor Area, ft ²	273	Glado I	Ttomour	Ttomour	Oluco 2	273	
Wall Area, ft ²	676					676	
Ceiling Area, ft ²	273					273	
Jenning Area, it	210				<u> </u>	210	J
			Fraction	Fraction	Fraction	Fraction	Fraction
Componer	nts	Total ft3	RW	DAW	Metal	Lead	Concrete
Glove Boxes							
Hoods							
Benches/Tables/D	esks	200					
Casework/Cabinet	S	250					
Reefers, Large Equ	uipment	150					
Misc. Equip./Labw	are						
Hot Cells							
Storage Tanks							
Other							
Sinks							
Drains							
Ventilation Drops							
			1		1 3		1
Drains	No.		Inch Dia.		Total ft ³		
Ventilation Drops	No.		Inch Dia.		Total ft ³		
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical
Characterize	1	2	4				1
Equip. Release	1	2	4				1
Pack/Load waste							
Decon/Remed.							
Final Survey	1	2	4				1
# Lab Samples to I	be collecte	d					

Building	227	Roo	om or Area	B151			
Use	Liquid Sea	led: H-3. Sc	olid Sealed:	H-3, DU. G	as sealed: l	H-3	
		-				-	
Radionuclides, Ex			<u>1</u>	DU, H-3			
Area Classification		3					
# Floors above Ba							
# Floors below Ro	of						•
			%	ft2			
			needing	needing			
2	Total	Class 1	Remed.	Remed.	Class 2	Class 3	
Floor Area, ft ²	484					484	
Wall Area, ft ²	1320					1320	
Ceiling Area, ft ²	484					484	
Components		Total ft3	Fraction RW	Fraction DAW	Fraction Metal	Fraction Lead	Fraction Concrete
Glove Boxes							
Hoods							
Benches/Tables/D	esks						
Casework/Cabinet	S	100					
Reefers, Large Eq	uipment						
Misc. Equip./Labw	are						
Hot Cells							
Storage Tanks							
Other							
Sinks							
Drains							
Ventilation Drops							
Dusins	A.1		linah Dia U		Total ft ³		1
Drains	No.		Inch Dia.				
Ventilation Drops	No.		Inch Dia.		Total ft ³		
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical
Characterize	1	2	4				1
Equip. Release	1	2	4				1
Pack/Load waste							
Decon/Remed.							
Final Survey	1	2	4				1
# Lab Samples to	be collecte	d					

Building	227	Roo	om or Area	A334			
	Standards	storage lab	., Solid seal	ed: Pb-210	. Solid: Pb-2	210, U-238,	HEU, Th-
Use	nat. Powde	er - U-nat. L	iquid: HEU,	Pb-210,U-2	33, Th-230		
Radionuclides, Ex	tent of Cor	ıtaminatior	<u>1</u>	various (se	ee above)		
Area Classification		1					
# Floors above Ba	sement	2					
# Floors below Ro	of	2					
			%	ft2			
			needing	needing			
	Total	Class 1	Remed.	Remed.	Class 2	Class 3	
Floor Area, ft ²	418	418					
Wall Area, ft ²	1197	1197					
Ceiling Area, ft ²	418	418					
			F	F	F	F	F
0	-4-	T-4-1-60	Fraction	Fraction	Fraction	Fraction	Fraction
Componer	าเร	Total ft3	RW	DAW	Metal	Lead	Concrete
Glove Boxes Hoods		100	0.05	0.0	0.0		
	aalra	100	0.05	0.2	8.0		
Benches/Tables/D Casework/Cabinet		700	0.005	4			
		700	0.005	1			
Reefers, Large Equ	-	500					
Misc. Equip./Labw Hot Cells	are	50					
Storage Tanks							
Other							
Sinks		10	0.1		1		
Drains		0.6	0.1		 		
Ventilation Drops		6.9					
. J. M. G. G. D. Op 3		0.0	1		1		
Drains	No.	2	Inch Dia.	2	Total ft ³	0.6	
Ventilation Drops	No.	1	Inch Dia.	10	Total ft ³	6.9	
		_	-		-		
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical
Characterize	4	8	16				4
Equip. Release	8	16	32				8
Pack/Load waste			<u> </u>				
Decon/Remed.			4.0				
Final Survey	4	8	16				4
# Lab Cammina 4- 1	ha aallaata	ام	4	1			
# Lab Samples to I Note: Elevated activ			g 2022 agai	ing our			
note. ⊏ievated acti\	nty iouna in	noou aurin	y 2023 SCO	Jing survey			

Building	245	Roo	om or Area	A Wing Ro	ll-up		
Use							
Radionuclides, Ex		tamination) !				
Area Classification							
# Floors above Ba							
# Floors below Ro	OT .		%	ft2	1	I	
			needing				
	Total	Class 1	Remed.	needing Remed.	Class 2	Class 3	
Floor Area, ft ²	7477	5643	iveilleu.	169.6	350	1484	
Wall Area, ft ²				109.0			
	15650	10897.68			800	3953	
Ceiling Area, ft ²	7477	5643			350	1484	
			Fraction				ft ³
Compose	nte	Total ft3	RW	ft ³ DAW	ft ³ Metal	ft ³ Lead	Concrete
Componer Glove Boxes	າເວ	75	LAN	25	it wietai	IL LEAU	Concrete
Hoods		73		2.5			
Benches/Tables/D	esks	1166					
Casework/Cabinet		1370					
Reefers, Large Eq		14080					
Misc. Equip./Labw	-	1420					
Hot Cells		v					
Storage Tanks							
Other		2210					
Sinks		22					
Drains							
Ventilation Drops							
•					•		
			•		-		
Drains	No.		Inch Dia.		Total ft ³		
Ventilation Drops	No.		Inch Dia.		Total ft ³		
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical
Characterize	42	84	168	Cilibbei	Okilled	SHOKINGO	42
Equip. Release	52	104	208				52
Pack/Load waste	2.5	5	250	2	8	8	2.5
Decon/Remed.	1	2			4	4	1
Final Survey	30	60	120			<u>'</u>	30
# Lab Samples to I	•		10				•

Building	245	Roo	om or Area	A004			
Use	MIRF High	n-energy Fle	ectron Bean	n Irradiator			
	, <u>g.</u>	r onorgy En	John Dour	· irradiator.			
Radionuclides, Ex			1	I-125, Cs-1	137, Am-241		
Area Classification		3					
# Floors above Ba # Floors below Ro							
# Floors below Ro	 		%	ft2			
			needing	needing			
	Total	Class 1	Remed.	Remed.	Class 2	Class 3	
Floor Area, ft ²	384		- Nomicum	- tomoun	0.000 2	384	
Wall Area, ft ²	901					901	
Ceiling Area, ft ²	384					384	
J ,		•	!		!		ı
			Fraction	Fraction	Fraction	Fraction	Fraction
Componer	nts	Total ft3	RW	DAW	Metal	Lead	Concrete
Glove Boxes							
Hoods							
Benches/Tables/D							
Casework/Cabinet							
Reefers, Large Eq	uipment						
Misc. Equip./Labw	are						
Hot Cells							
Storage Tanks Other							
Sinks							
Drains							
Ventilation Drops							
Vontaida Bropo			<u> </u>		<u> </u>		
	No.		Inch Dia.		Total ft ³		
Drains	110.						
			-1		Total ft ³		
	No.		Inch Dia.		Total ft ³		
Ventilation Drops Person-hours		Supvsr	-1	Shipper	Total ft ³ Skilled	Unskilled	Clerical
Ventilation Drops Person-hours Characterize	No. Mgr 1	2	Inch Dia. HP Tech 4	Shipper	-	Unskilled	Clerical
Ventilation Drops Person-hours Characterize Equip. Release	No.		Inch Dia.	Shipper	-	Unskilled	
Ventilation Drops Person-hours Characterize Equip. Release Pack/Load waste	No. Mgr 1	2	Inch Dia. HP Tech 4	Shipper	-	Unskilled	1
Ventilation Drops Person-hours Characterize Equip. Release	No. Mgr 1	2	Inch Dia. HP Tech 4	Shipper	-	Unskilled	1

Building	245	Roc	om or Area	A005			
Use		MIRF	High-ener	gy Electron	Beam Irrac	liator.	
Radionuclides, Ex	tent of Con	tamination	<u>ı</u>	TRU, U, Be	eta		
Area Classification	า	1					_
# Floors above Ba	sement						
# Floors below Ro	of	6					
			%	ft2			
			needing	needing			
	Total	Class 1	Remed.	Remed.	Class 2	Class 3	
Floor Area, ft ²	1536	1536	0.1	153.6			
Wall Area, ft ²	3606	3606					
Ceiling Area, ft ²	1536	1536					
		T (150	Fraction	Fraction	Fraction	Fraction	Fraction
Componer	ITS	Total ft3	RW	DAW	Metal	Lead	Concrete
Glove Boxes							
Hoods Benches/Tables/December 1	a a ka	180	0.1	0.2	0.0		
Casework/Cabinet		250	0.1 0.1	0.2	0.8		
Reefers, Large Eq		6000	0.1		0.8		
Misc. Equip./Labw	•	400	0.2	0.05 0.2	0.95		
Hot Cells	aıt	400	∪.∠	0.2	0.0		
Storage Tanks							
Other		2200	0.1				1
Sinks		200	0.1		1		<u> </u>
Drains		20	0.1				
Ventilation Drops							
					<u> </u>		
Drains	No.	1	Inch Dia.	2	Total ft ³		
Ventilation Drops	No.		Inch Dia.		Total ft ³		
Ventilation Drops	No.		Inch Dia.		l otal ft		
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical
Person-hours Characterize	·	8	HP Tech 16	Shipper	1	Unskilled	Clerical 4
Person-hours Characterize Equip. Release	Mgr 4 8	8 16	HP Tech		Skilled		4 8
Person-hours Characterize Equip. Release Pack/Load waste	Mgr 4 8	8 16 2	HP Tech 16	Shipper 2	Skilled 2	2	4 8 1
Person-hours Characterize Equip. Release	Mgr 4 8	8 16	HP Tech 16		Skilled		4 8

Building	245	Roo	om or Area	A006				
	MIRF Set-U	Jp Lab, Sta	ging area fo	r MIRF exp	eriments. N	ote: This is	same room	
Use	as A006-1.	Sealed Sr-	90					
			ı					
Radionuclides, Ex) 1		Seale	d Sr-90		
Area Classification		3	-					
# Floors above Ba		0						
# Floors below Ro	OT	3	%	ft2			Ì	
			needing	needing				
	Total	Class 1	Remed.	Remed.	Class 2	Class 3		
Floor Area, ft ²	1100	Class I	itellieu.	ixemeu.	Class 2	1100		
					<u> </u>			
Wall Area, ft ²	3051					3051		
Ceiling Area, ft ²	1100					1100		
			Fraction	Fraction	Fraction	Fraction	Fraction	
Componer	nte	Total ft3	RW	DAW	Metal	Lead	Concrete	
Glove Boxes	113	1 Otal Ito		DAII	Wictai	Lead	Ooncrete	
Hoods								
Benches/Tables/De	esks	10						
Casework/Cabinet		70						
Reefers, Large Equ								
Misc. Equip./Labw	•							
Hot Cells								
Storage Tanks								
Other								
Sinks		2						
Drains								
Ventilation Drops								
Duning			ا ما ما ما	-	T-4-1 643			
Drains -	No.	1	Inch Dia.	2	Total ft ³			
Ventilation Drops	No.		Inch Dia.		Total ft ³			
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical	
Characterize	1	2	4				1	
Equip. Release	1	2	4				1	
Pack/Load waste								
Decon/Remed.								
Final Survey	1	2	4				1	
# Lab Samples to I	be collecte	d						

Building	245	Roo	om or Area	A010			
Use	RAM Wast	e Storage					
Radionuclides, Ex	tent of Con	<u>itamination</u>	1	Beta-gamr	ma, Sr-90		
Area Classification	n	1	'	-			
# Floors above Ba	sement						
# Floors below Ro	of	2					_
			%	ft2]
			needing	needing			
	Total	Class 1	Remed.	Remed.	Class 2	Class 3	
Floor Area, ft ²	1860	1860					
Wall Area, ft ²	3900	3900					
Ceiling Area, ft ²	1860	1860					
Componer	nts	Total ft3	Fraction RW	Fraction DAW	Fraction Metal	Fraction Lead	Fraction Concrete
Glove Boxes		50		5/311	motar		301101010
Hoods							
Benches/Tables/Desks		216					
Casework/Cabinets		210					
Reefers, Large Eq		3000					
Misc. Equip./Labw	are						
Hot Cells							
Storage Tanks							
Storage Tanks Other							
Sinks							
Drains							
Ventilation Drops							
'	Į.					•	
Drains	No.		Inch Dia.		Total ft ³		
Ventilation Drops	No.		Inch Dia.		Total ft ³		
		-			_		-
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical
Characterize Equip. Release	4	8	16				4
Equip. Release	4	8	16				4
Pack/Load waste	0.5	1			2	2	0.5
Decon/Remed.							
Final Survey	2	4	8				2
# Lab Samples to			<u> </u>		I		

April 2023

Use	Radioactive	e Material S	torage				
Radionuclides, Ex	tent of Con	tamination	,	Cs-137 R:	a-Be, I-125		
Area Classification		1	'	05 107,14	u Bc, 1 120		
# Floors above Ba		1					
# Floors below Ro		2					
# 1 10010 B010W 110			%	ft2			1
			needing	needing			
	Total	Class 1	Remed.	Remed.	Class 2	Class 3	
Floor Area, ft ²	160	160	0.1	16			
Wall Area, ft ²	560	560					
Ceiling Area, ft ²	160	160					
Componer	nts	Total ft3	Fraction RW	Fraction DAW	Fraction Metal	Fraction Lead	Fraction Concrete
Glove Boxes	Ī	25	1		1		
Hoods		-					
Benches/Tables/De	esks						
asework/Cabinets							
eefers, Large Equipment							
Misc. Equip./Labw	-						
Hot Cells							
Storage Tanks							
Other							
Sinks							
Drains							
Ventilation Drops							
ventilation brops							
Drains	No.		Inch Dia.		Total ft ³		
Ventilation Drops	No.		Inch Dia.		Total ft ³		
							1
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical
Characterize	4	8	16	•			4
Equip. Release	8	16	32				8
Pack/Load waste							
Decon/Remed.							
Final Survey	4	8	16				4
# Lab Samples to I	be collecte	d	1				

Room or Area A012

Building

245

Building	245	Roc	om or Area	A013			
Use	Storage						
Radionuclides, Ex	tent of Cor	ıtaminatior	1	various			
Area Classification		1	ĺ .	1			
# Floors above Ba		1	İ				
# Floors below Ro		2	İ				
		·	%	ft2			l
		<u> </u>	needing	needing		, ,	
	Total	Class 1	Remed.	Remed.	Class 2	Class 3	
Floor Area, ft ²	317	317					
Wall Area, ft ²	819	819					
Ceiling Area, ft ²	317	317					
Componer	nto	Total ft3	Fraction RW	Fraction DAW	Fraction Metal	Fraction Lead	Fraction Concrete
Clove Roves	ils !	TOLAI ILU	LAA	DAV	Wittai	Leau	Concrete
Glove Boxes Hoods		 			 		
Benches/Tables/Desks		200			 	, 	
Casework/Cabinets		200	 		 		
Reefers, Large Eq		200			 	, 	
Misc Fauin / ahw	ulpillelli varo				 	, 	
Misc. Equip./Labw Hot Cells	ai c		 		 		
TIOL OCIIS		 					
Storage Tanks			1 ,		<u> </u>		
Storage Tanks	İ				l i	,	
Other							
Other Sinks							
Other Sinks Drains							
Other Sinks							
Other Sinks Drains	No.		Inch Dia.		Total ft ³		
Other Sinks Drains Ventilation Drops Drains			4 1		Total ft ³		
Other Sinks Drains Ventilation Drops	No. No.		Inch Dia.		Total ft ³		
Other Sinks Drains Ventilation Drops Drains Ventilation Drops Person-hours			4 1	Shipper		Unskilled	Clerical
Other Sinks Drains Ventilation Drops Drains Ventilation Drops Person-hours Characterize	No.		Inch Dia.	Shipper	Total ft ³	Unskilled	Clerical 4
Other Sinks Drains Ventilation Drops Drains Ventilation Drops Person-hours	No.	Supvsr	Inch Dia.	Shipper	Total ft ³	Unskilled	
Other Sinks Drains Ventilation Drops Drains Ventilation Drops Person-hours Characterize	No. Mgr 4	Supvsr 8	Inch Dia. HP Tech 16	Shipper	Total ft ³	Unskilled	4
Other Sinks Drains Ventilation Drops Drains Ventilation Drops Person-hours Characterize Equip. Release	No. Mgr 4	Supvsr 8	Inch Dia. HP Tech 16	Shipper	Total ft ³	Unskilled	4

Building	245	j Kod	om or Area	A014			
Use	Storage						
!		,					
Radionuclides, Ex		tamination	1	various			
Area Classification		1					
# Floors above Ba							
# Floors below Ro	of	2					•
			%	ft2			
			needing	needing			
	Total	Class 1	Remed.	Remed.	Class 2	Class 3	
Floor Area, ft ²	38	38					
Wall Area, ft ²	99	99					
Ceiling Area, ft ²	38	38					
0	-1-	Tatal #0	Fraction	Fraction	Fraction	Fraction	Fraction
Componer	าเร	Total ft3	RW	DAW	Metal	Lead	Concrete
Glove Boxes			0.5	0.9	0.1		
Hoods							
Senches/Tables/Desks		50					
asework/Cabinets		50					
Reefers, Large Eq							
Misc. Equip./Labw	are						
Hot Cells							
Storage Tanks							
Other							
Sinks							
Drains							
Ventilation Drops							
Drains	No.		Inch Dia.		Total ft ³]
Ventilation Drops	No.		Inch Dia.		Total ft ³		
		<u> </u>]] . •]
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical
Characterize	4	8	16				4
Equip. Release	8	16	32				8
Pack/Load waste							
Decon/Remed.							
Final Survey	4	8	16				4
# Lab Samples to	be collecte	d	1				

Bullullig	243	245 ROOM OF Area A016											
ı	Californium	2.5 Ma\/	and 14 Me\	/ Noutron I	radiations								
Hea			and 14 MeV radiation Fa										
USE	Callionnull	I INCULIOII III	aulation Fa	CINITY (CINIT)								
Radionuclides, Ex	tent of Con	tamination	1	U, Sr-90									
Area Classification		1											
# Floors above Ba	sement												
# Floors below Ro	of												
			%	ft2									
			needing	needing									
	Total	Class 1	Remed.	Remed.	Class 2	Class 3							
Floor Area, ft ²	1732	1732											
Wall Area, ft ²	1914	1914											
Ceiling Area, ft ²	1732	1732											
							•						
			Fraction	Fraction	Fraction	Fraction	Fraction						
Componer	nts	Total ft3	RW	DAW	Metal	Lead	Concrete						
Glove Boxes													
Hoods													
Benches/Tables/Desks		500											
Casework/Cabinet		800											
Reefers, Large Equ	-	5000											
Misc. Equip./Labw	are	1000											
Hot Cells													
Storage Tanks													
Other													
Sinks													
Drains													
Ventilation Drops													
			l <u>.</u> .		1 3								
Drains	No.		Inch Dia.		Total ft ³								
Ventilation Drops	No.		Inch Dia.		Total ft ³								
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical						
Characterize	16	32	64				16						
Equip. Release	10	20	40				10						
Pack/Load waste	1	2	-		4	4	1						
Decon/Remed.													
Final Survey	8	16	32				8						
# Lab Samples to I	be collecte	d	1										

Building	245	Roo	om or Area	A10 East E	Basement		
•	<u></u>	ļ					
Use			lon	izing Dosin	netry		
Radionuclides, Ex			1		Sealed	Sources	
Area Classification		2					
# Floors above Ba		3					
# Floors below Ro	of	1		64.0	1	1	1
			%	ft2			1
			needing	needing			I
	Total	Class 1	Remed.	Remed.	Class 2	Class 3	1
Floor Area, ft ²	350				350		
Wall Area, ft ²	800				800		
Ceiling Area, ft ²	350				350		
			Fraction	Fraction	Fraction	Fraction	Fraction
Componer	nts	Total ft3	RW	DAW	Metal	Lead	Concrete
Glove Boxes							
Hoods							
Benches/Tables/Des/Des/Des/Des/Des/Des/Des/Des/Des/D	esks	10					
Casework/Cabinet	s						
Reefers, Large Equ	uipment	80					
Misc. Equip./Labw	are	20					
Hot Cells							
Storage Tanks							
Other		10					
Sinks							
Drains							
Ventilation Drops							
-	•						
Drains	No.		Inch Dia.		Total ft ³		1
Ventilation Drops	No.		Inch Dia.		Total ft ³		I
	- !						
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical
Characterize	4	8	16				4
Equip. Release	4	8	16				4
Pack/Load waste							
Decon/Remed.							
Final Survey	2	4	8				2
# Lab Samples to I	be collecte	d	1				

Building	245	Ro	om or Area	B Wing - B	elow Grade R	oll-up	
Use							
,							
5 .							
Radionuclides, Ex		tamination	1				
Area Classification # Floors above Ba			1				
# Floors above Ba # Floors below Ro			1				
# I loois below No	OI .		%	ft2			Ī
			needing	needing			
	Total	Class 1	Remed.	Remed.	Class 2	Class 3	
Floor Area, ft ²	12805	4861		33.6		8384	
Wall Area, ft ²	42493	13492		67.2		30301	
Ceiling Area, ft ²	13585	4861				9164	
							•
			Fraction	•	2	2	ft ³
Componer	nts	Total ft3	RW	ft ³ DAW	ft ³ Metal	ft ³ Lead	Concrete
Glove Boxes		90		31.5	13.5		
Hoods		410			215		
Benches/Tables/D		2425		2.5	7.5		
Casework/Cabinet		4007		24.6	40.4		
Reefers, Large Eq		4440					
Misc. Equip./Labw	are	2405		33	7		
Hot Cells							
Storage Tanks		1300		260			
Other		1952				2.4	
Sinks		96			25.2		
Drains		1.9		0.007	0.007		
Ventilation Drops		299.2		6.25	6.25		
Drains	No.	19	Inch Dia.		Total ft ³	2.2]
Ventilation Drops	No.	17	Inch Dia.		Total ft ³	299.2	
]		l
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical
Characterize	77	154	308				77
Equip. Release	100	200	400	4	9	9	100
Pack/Load waste	12.75	25.5	42	34	53	53	12.75
	16.5	33	66	18	70	70	16.5
Decon/Remed. Final Survey	67.5	135	270				67.5

Building 245 Room or Area B002									
		ab for He3 ce				O Thon rob	··ilt oo		
llse	B002)	is Decominis	sioned by A	TL (previou	ısly B006, B00	8. Then ten	ulit as		
030	D002)								
Radionuclides, Ex		ıtamination	_						
Area Classification	L	3							
# Floors above Ba	L	1	_						
# Floors below Ro	of	3	%	ft2	T	T	7		
		ľ	% needing	π2 needing					
	Total	Class 1	Remed.	Remed.	Class 2	Class 3			
Floor Area, ft ²	1000	Olass i	Nemeu.	Reilled.	Olass 2	1000	†		
Wall Area, ft ²	3400					3400	†		
Ceiling Area, ft ²	1000					1000	†		
Oeiiiig Aiou, it	1000				<u>I</u>	1000	1		
			Fraction	Fraction	Fraction	Fraction	Fraction		
Componer	nts	Total ft3	RW	DAW	Metal	Lead	Concrete		
Glove Boxes									
Hoods	_			<u> </u>		<u> </u>			
Benches/Tables/D		300	<u> </u>	<u> </u>		<u> </u>			
Casework/Cabinet	į.	200		<u> </u>					
Reefers, Large Equ	-	200	 	<u> </u>		<u> </u>	<u> </u>		
Misc. Equip./Labw Hot Cells	are	150	 			1	-		
Storage Tanks			 				 		
Other	}	130				<u> </u>			
Sinks	•	100					 		
Drains	•								
Ventilation Drops	•								
	-		<u> </u>		1				
Drains	No.	2	Inch Dia.	2	Total ft ³	0.3			
Ventilation Drops	No.		Inch Dia.		Total ft ³]		
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical		
Characterize	1	2	4				1		
Equip. Release	1	2	4				1		
Pack/Load waste									
Decon/Remed.									
Final Survey	1	2	4				1		
# Lab Samples to I	be collecte	d	1	l					

Building	245	Roo	om or Area	B003				
1100	Data Davida	la Calibuatian	- l - l- /::-l-	- 14 D000)			1	
Use	Beta Partic	le Calibration	ı Lab (inside	e ola B002)				
Radionuclides, Ex	tent of Con	ntamination	!	Beta				
Radionuclides, Ex Area Classification	n	3]					
# Floors above Ba	sement							
# Floors below Ro	of	3						
			%	ft2				
			needing	needing				
	Total	Class 1	Remed.	Remed.	Class 2	Class 3		
Floor Area, ft ²	220					220		
Wall Area, ft ²	1000					1000		
Ceiling Area, ft ²	220					220		
			Fue ette u	F.,		F.,		
Componer	nto	Total #2	Fraction RW	Fraction	Fraction	Fraction	Fraction	
Componer Glove Boxes	าเร	Total ft3	RW	DAW	Metal	Lead	Concrete	
Hoods			+					
Benches/Tables/D	ocks	100	+					
		100	+		<u> </u>			
Casework/Cabinet Reefers, Large Eq	.s winment	100						
Misc. Equip./Labw	aro							
Hot Cells	ui c		1					
Storage Tanks					<u> </u>			
Other								
Other Sinks								
Drains								
Ventilation Drops								
·					•			
Drains	No.		Inch Dia.		Total ft ³			
Ventilation Drops	No.		Inch Dia.		Total ft ³			
D h	N.A	0	LID TI-	01-1	01-1111	11	01	
Person-hours Characterize	Mgr 1	Supvsr 2	HP Tech	Shipper	Skilled	Unskilled	Clerical 1	
	1	2	4				1	
Equip. Release Pack/Load waste	ı		+				'	
Decon/Remed.			+					
Final Survey	1	2	4				1	
			<u>. ' '</u>	1	1	<u>I</u>	<u>'</u>	
# Lab Samples to	be collecte	d						

ent of Consement of Total 220 1000 220	Setup Lab, e of Sr-90, Pr kV XRM is long ntamination 3 3 Class 1	m-147, TI-20	04, DÚ, U-2	38, Cs-137, Rosee a	·	2.
ent of Consement of Total 220 1000 220	e of Sr-90, Pr kV XRM is lo ntamination 3	m-147, TI-20 ocated in 24 % needing	94, DU, U-2 5/B013) ft2 needing	see a	Class 3 220 1000	2.
ent of Consement of Total 220 1000 220	kV XRM is longer transfer of the state of th	% needing	5/B013) ft2 needing	see a	Class 3 220 1000	
ent of Consement of Total 220 1000 220	atamination 3 3	% needing	ft2		Class 3 220 1000	
Total 220 1000 220	3	needing	needing		Class 3 220 1000	
Total 220 1000 220	3	needing	needing	Class 2	220 1000	
Total 220 1000 220		needing	needing	Class 2	220 1000	
Total 220 1000 220		needing	needing	Class 2	220 1000	
220 1000 220	Class 1	needing	needing	Class 2	220 1000	
220 1000 220	Class 1	_	_	Class 2	220 1000	
220 1000 220	Class 1	Remed.	Remed.	Class 2	220 1000	
1000 220					1000	
220						<u> </u>
					220	Ī
		-	-	-		
						•
		Fraction	Fraction	Fraction	Fraction	Fraction
ts	Total ft3	RW	DAW	Metal	Lead	Concrete
;						
ire						
N - 1]		14-1 643		Ī
No.		Inch Dia.		l otal ft°		
Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical
1	2	4				1
1	2	4				1
1	2	4				1
	No. No. Mgr 1	No. No. No. 1 2 1 2	No. Inch Dia. Inch Dia. Inch Dia. 1 2 4	No. Inch Dia. Inch Dia. Inch Dia. 1 2 4	No. Inch Dia. Total ft ³ No. Inch Dia. Total ft ³ Mgr Supvsr HP Tech Shipper Skilled 1 2 4 1 2 4 1 2 4	No. Inch Dia. Total ft³ No. Inch Dia. Total ft³

Building	ing 245 Room or Area B0014 (formerly B014)										
Use	Gamma Ca	alibration									
Radionuclides, Ex			,	Sealed Cs-	-137 source or	ıly					
Area Classification		3									
# Floors above Ba											
# Floors below Ro	of		0,	£10	1	II.	T /				
			%	ft2							
			needing	needing							
	Total	Class 1	Remed.	Remed.	Class 2	Class 3					
Floor Area, ft ²	800					800					
Wall Area, ft ²	3060					3060					
Ceiling Area, ft ²	800					800					
			Fraction	Fraction	Fraction	Fraction	Fraction				
Componer	nts	Total ft3	RW	DAW	Metal	Lead	Concrete				
Glove Boxes											
Hoods											
Benches/Tables/Desks		100									
Casework/Cabinet		200									
Reefers, Large Eq		50									
Misc. Equip./Labw	are	40									
Hot Cells											
Storage Tanks											
Other		207									
Sinks											
Drains											
Ventilation Drops											
	1		1		1 3		1				
Drains	No.		Inch Dia.		Total ft ³						
Ventilation Drops	No.	2	Inch Dia.	4	Total ft ³						
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical				
Characterize	1	2	4	Cimppei	Okinod	Chokined	1				
Equip. Release	1	2	4				1				
Pack/Load waste	0.5	1	т		2	2	0.5				
Decon/Remed.	0.0	•			_		0.0				
	0.5	1	2				0.5				
# Lab Samples to be collected											

Note: Other waste includes 200 ft3 concrete & 7 ft3 lead)

Building 245 Room or Area B015 (formerly B11)										
ااعماا	TES Lab (fo	ormerly gam	ma rav mea	surement)						
USE	LO Lab (I	omicity gain	ma ray mea	saroment)						
Radionuclides, Ex	tent of Cor	tamination		Very lo	w RAM, <10 Bq	foil wrapped s	sources)			
Area Classification	n	3			•	• •				
# Floors above Ba	sement									
# Floors below Ro	of						_			
			%	ft2						
			needing	needing						
	Total	Class 1	Remed.	Remed.	Class 2	Class 3	ļ			
Floor Area, ft ²	420					420				
Wall Area, ft ²	1200					1200				
Ceiling Area, ft ²	420					420				
			Fraction	Fraction	Fraction	Fraction	Fraction			
Componer	nte	Total ft3	RW	DAW	Metal	Lead	Concrete			
Glove Boxes	າເວ 	i Ulai Il3	LAAA	DAW	ivietai	Leau	Concrete			
Hoods										
Benches/Tables/D	peke	140								
Benches/Tables/Desks Casework/Cabinets		195								
Reefers, Large Eq		200								
Misc. Equip./Labw		100				†				
Hot Cells										
Storage Tanks										
Other		325								
Sinks										
Drains										
Ventilation Drops										
-	•									
Drains	No.	1	Inch Dia.	2	Total ft ³					
Ventilation Drops	No.		Inch Dia.		Total ft ³					
				01:		I	0			
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical			
Characterize	1	2	4				1			
Equip. Release	1	2	4				1			
Pack/Load waste										
Decon/Remed.	4	2	1				1			
Final Survey	1		4				1			
# Lab Samples to be collected										

NOTE: Lead lined walls 1/4" think. Lead brick shield 5ft3 in room

Building	245	Roc	om or Area	B017(form	nerly B15)		
		•	•		,		
Use	High Level	Counting Ro	om				
L				l			1
Radionuclides, Ex			,	currently e	mpty formerly	sealed sourc	es
Area Classification # Floors above Ba		3	-				
# Floors above Ba			4				
# Floors below Ro	OT	 	%	ft2	T	1	ī
		I	needing	needing			
	Total	Class 1	Remed.	Remed.	Class 2	Class 3	
Floor Area, ft ²	260	Olass I	Remou.	Remou.	01033 2	500	ł
Wall Area, ft ²	1000		+		 	2000	†
Ceiling Area, ft ²	260		+			500	ł
Cenning Area, it	200				<u> </u>	300	1
			Fraction	Fraction	Fraction	Fraction	Fraction
Componer	nts	Total ft3	RW	DAW	Metal	Lead	Concrete
Glove Boxes		10141110			T		
Hoods							
Benches/Tables/D	esks					 	
Casework/Cabinet							
Reefers, Large Eq							
Misc. Equip./Labw						†	
Hot Cells						†	
Storage Tanks					1	1	
Other							
Sinks							
Drains							
Ventilation Drops							
Drains	No.		Inch Dia.		Total ft ³		
Ventilation Drops	No.		Inch Dia.		Total ft ³		
					·		•
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical
Characterize	1	2	4				1
Equip. Release	1	2	4				1
Pack/Load waste							
Decon/Remed.							
Final Survey	1	2	4				1
# Lab Samples to I	be collecte	d					

Building	ding 245 Room or Area B0019 (formerly B019)									
Heal	l lorizontal l	Beam Contro	Λroo							
Osel	HUHZUHlari	3eam Contro	Alea							
Radionuclides, Ex	tent of Con	tamination	ſ	Sealed Cs-	-137					
Area Classification		3	1							
# Floors above Ba	sement	1								
# Floors below Ro	of	1								
]	%	ft2						
		1	needing	needing						
	Total	Class 1	Remed.	Remed.	Class 2	Class 3	l			
Floor Area, ft ²	240					240	<u> </u>			
Wall Area, ft ²	806					806				
Ceiling Area, ft ²	240					240				
							- 41			
			Fraction	Fraction	Fraction	Fraction	Fraction			
Componer	ıts	Total ft3	RW	DAW	Metal	Lead	Concrete			
Glove Boxes		·	ļ			<u> </u>				
Hoods	_		<u> </u>							
Benches/Tables/D		100	<u> </u>							
Casework/Cabinet		200	<u> </u>							
Reefers, Large Equ		100	<u> </u>							
Misc. Equip./Labw	are	40	<u> </u>							
Hot Cells		ļ								
Storage Tanks		ļ								
Other		ļ								
Sinks		<u> </u>								
Drains		ļ								
Ventilation Drops					<u> </u>					
Drains	No.		Inch Dia.		Total ft ³		1			
Ventilation Drops	No.		Inch Dia.		Total ft ³					
Ventuation Drops	NO.		Jilicii Dia.		Trotarit		l			
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical			
Characterize	1	2	4				1			
Equip. Release	1	2	4				1			
Pack/Load waste	0.5	1			2	2	0.5			
Decon/Remed.		' 								
Final Survey	0.5	1	2				0.5			
# Lab Samples to I										

Building 245 Room or Area B0021 (formerly B021)									
llea	Sealed sou	rces							
USE	ocalcu sou	1003							
Radionuclides, Ex	tent of Con	tamination		Sealed Co	-60, Cs-137, S	r-90			
Area Classification		3] '		,				
# Floors above Ba	sement		1						
# Floors below Ro	of		1						
			%	ft2					
			needing	needing					
	Total	Class 1	Remed.	Remed.	Class 2	Class 3			
Floor Area, ft ²	240					240			
Wall Area, ft ²	806					806			
Ceiling Area, ft ²	240					240			
Componer	nte	Total ft?	Fraction RW	Fraction DAW	Fraction Metal	Fraction Lead	Fraction Concrete		
Glove Boxes	າເວ 	Total ft3	I VV	DAW	ivietai	Leau	Concrete		
Hoods						1			
	aeke								
Benches/Tables/Desks Casework/Cabinets		40							
Reefers, Large Eq		100							
Misc. Equip./Labw		100							
Hot Cells	4.0	100							
Storage Tanks									
Other		406							
Sinks									
Drains									
Ventilation Drops									
	<u> </u>					•			
Drains	No.		Inch Dia.		Total ft ³				
Ventilation Drops	No.		Inch Dia.		Total ft ³				
•			.		4				
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical		
Characterize	1	2	4				1		
Equip. Release	1	2	4				1		
Pack/Load waste									
Decon/Remed.									
Final Survey	1	2	4				1		
# Lab Samples to be collected									

Note: Other waste 400ft³ 1/4" thick lead wall, 1ft³ lead bricks, 5ft³ misc.

Building	245	Room or Area B0023 (formerly B023)									
llse	Setup Lab										
000	Cotap Las										
Radionuclides, Ex	tent of Cor	ntamination		TRU, Beta	-gamma, low e	energy					
Area Classification	n	1									
# Floors above Ba	sement										
# Floors below Ro	of	2									
			%	ft2							
			needing	needing							
	Total	Class 1	Remed.	Remed.	Class 2	Class 3					
Floor Area, ft ²	220	220	0.1	22							
Wall Area, ft ²	1000	1000									
Ceiling Area, ft ²	220	220									
			Fraction	Fraction	Fraction	Fraction	Fraction				
Componer	nts	Total ft3	RW	DAW	Metal	Lead	Concrete				
Glove Boxes							305.00				
Hoods					†						
Benches/Tables/Desks		200	0.05	0.25	0.75						
Casework/Cabinet		80	0.05		1						
Reefers, Large Eq											
Misc. Equip./Labw		300									
Hot Cells											
~ - ·											
Storage Tanks											
)	4	0.1			1					
Other (lead bricks)	4 2			1	1					
Other (lead bricks)		0.1 0.1 0.1		1 1	1					
Other (lead bricks Sinks Drains)		0.1			1					
Other (lead bricks Sinks Drains)		0.1			1					
Sinks) No.		0.1	2		1					
Other (lead bricks Sinks Drains Ventilation Drops		2	0.1	2	1	1					
Other (lead bricks Sinks Drains Ventilation Drops Drains Ventilation Drops	No. No.	1	0.1 0.1 Inch Dia.		Total ft ³						
Other (lead bricks Sinks Drains Ventilation Drops Drains Ventilation Drops Person-hours	No. No.	2 1 Supvsr	0.1 0.1 Inch Dia. Inch Dia.	2 Shipper	1 Total ft ³	Unskilled	Clerical				
Other (lead bricks) Sinks Drains Ventilation Drops Drains Ventilation Drops Person-hours Characterize	No. No. Mgr 8	1 Supvsr 16	0.1 0.1 Inch Dia. Inch Dia. HP Tech		Total ft ³		8				
Other (lead bricks) Sinks Drains Ventilation Drops Drains Ventilation Drops Person-hours Characterize Equip. Release	No. No. Mgr 8	2 1 Supvsr 16 16	Inch Dia. Inch Dia. HP Tech 32 32	Shipper	Total ft ³ Total ft ³ Skilled	Unskilled	8				
Other (lead bricks Sinks Drains Ventilation Drops Drains Ventilation Drops Person-hours Characterize Equip. Release Pack/Load waste	No. No. Mgr 8	1 Supvsr 16	0.1 0.1 Inch Dia. Inch Dia. HP Tech		Total ft ³		8				
Other (lead bricks Sinks Drains Ventilation Drops Drains Ventilation Drops Person-hours Characterize Equip. Release	No. No. Mgr 8	2 1 Supvsr 16 16	Inch Dia. Inch Dia. HP Tech 32 32	Shipper	Total ft ³ Total ft ³ Skilled	Unskilled	8				

Note: Other waste includes 190 ft3 concrete & 10 ft3 lead

Building	245	245 Room or Area B0014 (formerly B014)									
Use	Gamma Ca	libration									
Radionuclides, Ex	tent of Con	tamination	_	Sealed Cs-	-137 source or	nly					
Area Classification	n	3									
# Floors above Ba											
# Floors below Ro	of					_	•				
			%	ft2							
			needing	needing							
	Total	Class 1	Remed.	Remed.	Class 2	Class 3					
Floor Area, ft ²	800					800	i				
Wall Area, ft ²	3060					3060					
Ceiling Area, ft ²	800	-		<u> </u>		800					
Componer	ato.	Total ft3	Fraction RW	Fraction DAW	Fraction Metal	Fraction Lead	Fraction Concrete				
Componer Glove Boxes	າເວ 	าบเสา แง	IT VV	DAW	ivietai	Leau	Concrete				
Hoods											
Benches/Tables/D	oeke	100									
Casework/Cabinet		200									
Reefers, Large Eq	_	50									
Misc. Equip./Labw		40									
Hot Cells	aie	40									
Storage Tanks											
Other		207									
Sinks		201									
Drains											
Ventilation Drops											
ventilation brops											
Drains	No.		Inch Dia.		Total ft ³						
Ventilation Drops	No.	2	Inch Dia.	4	Total ft ³						
			1	· ·	1						
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical				
Characterize	1	2	4				1				
Equip. Release	1	2	4				1				
Pack/Load waste	0.5	1			2	2	0.5				
Decon/Remed.											
Final Survey	0.5	1	2				0.5				
# Lab Samples to	be collecte	d									

Note: Other waste includes 200 ft3 concrete & 7 ft3 lead)

Building	245	Room or Area B0015 (formerly B015)									
Haa	Horizontal	Beam calibra	tion								
USE	ı ıvıızunlal l	Deam Calibla	uUII								
Radionuclides, Ex	tent of Con	tamination		Sealed Co	-60&Cs-137, u	nsealed Co-	57				
Area Classification		1	·		•						
# Floors above Ba	sement										
# Floors below Ro	of						_				
			%	ft2							
			needing	needing							
	Total	Class 1	Remed.	Remed.	Class 2	Class 3					
Floor Area, ft ²	420	420									
Wall Area, ft ²	1204	1204									
Ceiling Area, ft ²	420	420									
_		_	Fraction	Fraction	Fraction	Fraction	Fraction				
Componer	nts	Total ft3	RW	DAW	Metal	Lead	Concrete				
Glove Boxes											
Hoods											
Benches/Tables/D		50									
Casework/Cabinet		100									
Reefers, Large Eq		200				ļ					
Misc. Equip./Labw	are	100				ļ					
Hot Cells											
Storage Tanks		225									
Other		325									
Sinks											
Drains											
Ventilation Drops						<u> </u>					
Drains	No.		Inch Dia.		Total ft ³						
Ventilation Drops	No.		Inch Dia.		Total ft ³						
2.000					1						
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical				
Characterize	4	8	16				4				
Equip. Release	8	16	32	4	8	8	8				
Pack/Load waste											
Decon/Remed.											
Final Survey	4	8	16				4				
# Lab Samples to be collected 1											

Note: Other waste includes: 250 ft3 concrete, 5ft3 lead brick, 70ft3 of 1/4" lead wall)

Building	245 Room or Area B025 (prev. was room B25)									
	V.D. G		. 0							
		ctrometry Sw		omitting	ourooo voina O	i /l i) dataata				
Hea					ources using S then recommi					
USE	11113 100111 \	was previous	DIY DZJ, INJL	o sui veyeu,	THE THE COUNTY	SSIONEU ION	lau.			
Radionuclides, Ex	tent of Con	tamination		Sealed sou	urces mainly					
Area Classification		3] '		j					
# Floors above Ba	sement	1								
# Floors below Ro	of	3					_			
			%	ft2						
			needing	needing						
	Total	Class 1	Remed.	Remed.	Class 2	Class 3				
Floor Area, ft ²	660					660				
Wall Area, ft ²	3000					3000	n.			
Ceiling Area, ft ²	660					660				
			Fraction	Fraction	Fraction	Fraction	Fraction			
Componer	ata.	Total #2	RW	DAW	Metal	Lead	Concrete			
Glove Boxes	115	Total ft3	T T T T T T T T T T T T T T T T T T T	DAW	lvietai	Leau	Concrete			
Hoods										
	oods enches/Tables/Desks									
Casework/Cabinet		100 50								
Reefers, Large Eq		200								
Misc. Equip./Labw		200								
Hot Cells	0									
Storage Tanks										
Other (Lead glass	shields)	5								
Sinks	,	4								
Drains		0.6								
Ventilation Drops										
Duning	I	4	ا ماه ماد	_	T-4-1 &3	0.0	Ī			
Drains	No.	4	Inch Dia.	2	Total ft ³	0.6				
	No.		Inch Dia.		Total ft ³					
Ventilation Drops				Chinner	Skilled	Unskilled	Clerical			
•	Mgr	Supvsr	HP Tech	Snipper	Okilled	Oliokilieu	0.000.			
Person-hours	Mgr 1	Supvsr 2	HP Tech	Shipper	Okilled	Oliskilled	1			
Person-hours Characterize				Snipper	Okilled	Oliskilled				
Ventilation Drops Person-hours Characterize Equip. Release Pack/Load waste	1	2	4	Snipper	Okilled	Offskilled	1			
Person-hours Characterize Equip. Release	1	2	4	Snipper	Okilled	Oliskilled	1			

Building 245 Room or Area B0029 (formerly B029)									
Use	Accelerator	r Support, x-r	ay generatii	ng device o	n mezzanine				
Radionuclides, Ex Area Classification	tent of Cor	tamination	ا ا	Sealed sou	ırces				
			_						
# Floors above Ba		1							
# Floors below Ro	of	1	0/	610	1	ı	•		
			%	ft2					
			needing	needing					
	Total	Class 1	Remed.	Remed.	Class 2	Class 3	1		
Floor Area, ft ²	400					400			
Wall Area, ft ²	2000					2000			
Ceiling Area, ft ²	400					400			
Componer	nte	Total ft3	Fraction RW	Fraction DAW	Fraction Metal	Fraction Lead	Fraction Concrete		
Glove Boxes		Total its	1377	DAII	Inicial	Leau	Ooncrete		
Hoods									
Benches/Tables/D	oeke	15							
Casework/Cabinet		10							
Reefers, Large Eq		200							
Misc Fauin / ahw	aro	300							
Misc. Equip./Labw Hot Cells	ai c	000							
Storage Tanks									
Other		75							
Sinks		5							
Drains		0.1							
Ventilation Drops		22.5							
ventilation brops		22.5							
Drains	No.	1	Inch Dia.	2	Total ft ³	0.1			
Ventilation Drops	No.	2	Inch Dia.	18	Total ft ³	22.5			
			- '		-				
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical		
Characterize	3	6	12				3		
Equip. Release Pack/Load waste	2	4	8				2		
Pack/Load waste	1	2			2	2	1		
Decon/Remed.									
Final Survey	1	2	4				1		
# Lab Samples to be collected									

Building	245	245 Room or Area B0034 (formerly B034)									
Use			C0-60 v	ertical calih	ration room						
USE			CU-00 V	ortical cally	14110111100111						
Radionuclides, Ex	tent of Cor	tamination			C0-60 seal	ed source					
Area Classification		3] '								
# Floors above Ba	sement		1								
# Floors below Ro	of	3	1								
			%	ft2							
			needing	needing							
	Total	Class 1	Remed.	Remed.	Class 2	Class 3					
Floor Area, ft ²	266					266					
Wall Area, ft ²	1500					1500					
Ceiling Area, ft ²	266					266					
Componer		Total ft3	Fraction RW	Fraction DAW	Fraction Metal	Fraction Lead	Fraction Concrete				
Glove Boxes	113	i Utai Ita	IVAA	DAW	ivietai	Leau	Concrete				
Hoods											
Benches/Tables/D	esks										
Casework/Cabinet											
Reefers, Large Eq		200									
Misc. Equip./Labw											
Hot Cells											
Storage Tanks											
Other		50									
Sinks											
Drains											
Ventilation Drops											
						-	 1				
Drains	No.		Inch Dia.		Total ft ³						
Ventilation Drops	No.		Inch Dia.		Total ft ³						
	·				T =		· ·				
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical				
Characterize	1	2	4				1				
Equip. Release	1	2	4				1				
Pack/Load waste											
Decon/Remed.											
Final Survey	1	2	4				1				
# Lab Samples to be collected											

Note: Other waste 400ft³ 1/4" thick lead wall, 1ft³ lead bricks, 5ft³ misc.

Building	245	Roo	om or Area	B0035 (for	merly B035)			
Use	Vertical bea	am calibratio	n					
Dedienus listes	40.04.55.0	4 4! -		Name				
Radionuclides, Ex Area Classification		tamination 3	1	None				
# Floors above Ba		3	-					
# Floors above Ba # Floors below Ro			1					
# I loois below No	OI .		%	ft2	I		Ī	
			needing	needing				
	Total	Class 1	Remed.	Remed.	Class 2	Class 3		
Floor Area, ft ²	300					300		
Wall Area, ft ²	1000					1000		
Ceiling Area, ft ²	300					300		
_		T (155	Fraction	Fraction	Fraction	Fraction	Fraction	
Componer	าเร	Total ft3	RW	DAW	Metal	Lead	Concrete	
Glove Boxes								
Hoods	ooko	90						
Benches/Tables/D		80						
Casework/Cabinet	_	100						
Reefers, Large Equation 1		100						
Misc. Equip./Labw Hot Cells	are	80						
Storage Tanks Other								
Sinks								
oniks Drains								
Ventilation Drops								
venilialion brops			<u> </u>					
Drains	No.		Inch Dia.		Total ft ³			
Ventilation Drops	No.		Inch Dia.		Total ft ³			
•			- ·		•			
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical	
Characterize	1	2	4				1	
Equip. Release	1	2	4				1	
Pack/Load waste								
Decon/Remed.								
Final Survey	1	2	4				1	
# Lab Samples to	be collecte	d						

Building	245	Room or Area B0036 (formerly B036)									
		 									
Use	Co/Cs Vert	ical Calibration	on								
Radionuclides, Ex	tent of Cor	ntamination	ļ	Co-60 Cs.	-137 sealed so	urces					
Area Classification		3	ן '	00-00, 03-	- 107 Scalca 30	41003					
# Floors above Ba		1	-								
# Floors below Ro		1	1								
	<u>. </u>		%	ft2			•				
			needing	needing							
	Total	Class 1	Remed.	Remed.	Class 2	Class 3					
Floor Area, ft ²	266					266	•				
Wall Area, ft ²	1360					1360					
Ceiling Area, ft ²	266					266					
	 		<u> </u>			•	•				
			Fraction	Fraction	Fraction	Fraction	Fraction				
Componer	nts	Total ft3	RW	DAW	Metal	Lead	Concrete				
Glove Boxes											
Hoods											
Benches/Tables/D	esks	10									
Casework/Cabinet		16									
Reefers, Large Eq		1000									
Misc. Equip./Labw	are	15									
Hot Cells											
Storage Tanks											
Other		200									
Sinks											
Drains											
Ventilation Drops											
	1] '] 3		1				
Drains	No.		Inch Dia.		Total ft ³						
Ventilation Drops	No.		Inch Dia.		Total ft ³						
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical				
Characterize	1	2	4				1				
	1	2	4				1				
Pack/Load waste	0.5	1		2	2	2	0.5				
Decon/Remed.											
Final Survey	1	2	4				1				
Characterize Equip. Release Pack/Load waste Decon/Remed.	1 0.5	2 2 1	4				1 1 0.5				

Building		Ro	om or Area	ignore this	page		
Use							
Radionuclides, Ex		tamination	-				
Area Classification			1				
# Floors above Ba			_				
# Floors below Ro	of		0/	510	1	1	T
			%	ft2			
			needing	needing			
2	Total	Class 1	Remed.	Remed.	Class 2	Class 3	
Floor Area, ft ²							
Wall Area, ft ²							
Ceiling Area, ft ²							
			F4!	F 4!	F4'	F4!	
0	-4-	T-4-1 60	Fraction	Fraction	Fraction	Fraction	Fraction
Componer	nts	Total ft3	RW	DAW	Metal	Lead	Concrete
Glove Boxes							
Hoods			1				
Benches/Tables/D							
Casework/Cabinet							
Reefers, Large Eq							
Misc. Equip./Labw	/are						
Hot Cells							
Storage Tanks							
Other (lead brick)							
Sinks							
Drains							
Ventilation Drops							
Drains	No.		Inch Dia.		Total ft ³		
	_		4				
Ventilation Drops	No.		Inch Dia.		Total ft ³		
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical
Characterize							
Equip. Release							
Pack/Load waste							
Decon/Remed.							
Decommed.	1						

Building	245	Ro	om or Area	B0044 (for	merly B044)		
Use	dosimetry r	ecords (form	nerly RAM S	torage)			
Radionuclides, Ex	tont of Cor	stamination		II TDII B	eta-gamma		
Area Classificatio		3	ا ا	U, TIXU, D	eta-gamma		
# Floors above Ba			†				
Floors below Ro			1				
			%	ft2			Ī
			needing	needing			
	Total	Class 1	Remed.	Remed.	Class 2	Class 3	
Floor Area, ft ²	1000					1000	1
Wall Area, ft ²	1950					1950	1
Ceiling Area, ft ²	1000					1000	1
			Fraction	Fraction	Fraction	Fraction	Fraction
Compone	nte	Total ft3	Fraction RW	Fraction DAW	Fraction Metal	Fraction Lead	Concrete
Glove Boxes	into	i Otai ito	1744	PAN	IVICIAI	Leau	
Hoods							
Benches/Tables/D	esks	100					
Casework/Cabine		400	1				
	eefers, Large Equipment						
Misc. Equip./Labw		200					
Hot Cells							
Storage Tanks							
Other							
Sinks							
Drains							
Ventilation Drops							
Drains	No.		Inch Dia.		Total ft ³		1
Ventilation Drops	No.		Inch Dia.		Total ft ³		
ventilation brops	NO.		Jilich Dia.		Totalit		Į
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical
<u> </u>	1	2	4				1
					I		1 1
Equip. Release	1	2	4				
Characterize Equip. Release Pack/Load waste	1	2	4				
Equip. Release	1	2	4				1

Building	245	245 Room or Area B0045 (formerly B045)								
Use	Liquid wast	e tanks								
Radionuclides, Ex	tent of Cor	tamination		All						
Area Classification		1] '	<u></u>						
# Floors above Ba		3								
# Floors below Ro	of	1								
			%	ft2						
			needing	needing						
	Total	Class 1	Remed.	Remed.	Class 2	Class 3				
Floor Area, ft ²	1000	1000								
Wall Area, ft ²	3250	3250								
Ceiling Area, ft ²	1000	1000								
			Fraction	Fraction	Fraction	Fraction	Fraction			
Componer	nts	Total ft3	RW	DAW	Metal	Lead	Concrete			
Glove Boxes										
Hoods										
Benches/Tables/D										
Casework/Cabinet										
Reefers, Large Eq										
Misc. Equip./Labw	are									
Hot Cells		4200	0.0	4						
Storage Tanks Other		1300	0.2	1						
Sinks										
Drains		0.8								
Ventilation Drops		0.0								
ventilation brops						<u> </u>				
Drains	No.	2	Inch Dia.	2	Total ft ³	0.8	_			
Ventilation Drops	No.		Inch Dia.		Total ft ³					
			1		1 - 2 - 2 - 1 - 1		1			
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical			
Characterize	4	8	16				4			
Equip. Release	4	8	16		1	1	4			
Pack/Load waste	5	10	20	10	20	20	5			
Decon/Remed.	10	20	40	10	40	40	10			
Final Survey	4	8	16				4			
# Lab Samples to	be collecte	d	2							
Note: Liquid waste tank assumed to be used prior to decommissioning and sized to 20% of current volume.										

Note: Liquid waste tank assumed to be used prior to decommissioning and sized to 20% of current volume.

Tanks must be cut up prior to removal from room.

One tank curren

Building	245	Roo	m or Area		B0041 (form	nerly B041)						
Use		RAM Storage										
036				TANI OLOI A	ige							
Radionuclides, Ex	tent of Con	tamination		TRU, U								
Area Classification	n [1	'									
# Floors above Ba	sement											
# Floors below Ro	of	2					_					
			%	ft2								
			needing	needing								
_	Total	Class 1	Remed.	Remed.	Class 2	Class 3	ļ					
Floor Area, ft ²	12	12										
Wall Area, ft ²	280	280										
Ceiling Area, ft ²	12	12										
Componer	140	Total #2	Fraction	Fraction	Fraction	Fraction	Fraction					
Componer Glove Boxes	ແລ	Total ft3	RW	DAW	Metal	Lead	Concrete					
Hoods	ŀ					 						
Benches/Tables/D	oeke											
Casework/Cabinet		10	0.1		1							
Reefers, Large Equ		10	0.1		'							
Misc. Equip./Labw												
Hot Cells	4.0											
Storage Tanks	ŀ											
Other (lead brick)		5										
Sinks												
Drains												
Ventilation Drops	,											
•	L					1.						
Drains	No.		Inch Dia.		Total ft ³							
Ventilation Drops	No.		Inch Dia.		Total ft ³							
•	L				4	L						
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical					
Characterize	4	8	16				4					
Equip. Release	8	16	32				8					
Pack/Load waste												
Decon/Remed.												
Final Survey	4	8	16				4					
# Lab Samples to be collected 1												

Building	245	245 Room or Area B21								
Use		N I	outrop calib	ration and	dataatar taatin	<u> </u>	1			
Use		N	eutron call	nation and	detector testin	<u>y</u>				
Radionuclides, Ex	tent of Con	tamination		Sealed bet	a-gamma; uns	ealed U, Sr-9	90			
Area Classification		1	Į.		<u> </u>	·	!			
# Floors above Ba	sement									
# Floors below Ro	of									
			%	ft2			,			
			needing	needing						
	Total	Class 1	Remed.	Remed.	Class 2	Class 3				
Floor Area, ft ²	375	375					i			
Wall Area, ft ²	1440	1440					i			
Ceiling Area, ft ²	375	375								
Componer	nte	Total ft3	Fraction RW	Fraction DAW	Fraction Metal	Fraction Lead	Fraction Concrete			
Glove Boxes	ii.3 	Total its	1744	DAN	Wietai	Leau	Concrete			
Hoods										
Benches/Tables/D	esks	300								
Casework/Cabinet		120								
Reefers, Large Equ	-	120								
Misc. Equip./Labw		100								
Hot Cells										
Storage Tanks										
Other										
Sinks										
Drains										
Ventilation Drops										
					1		i			
Drains	No.		Inch Dia.		Total ft ³					
Ventilation Drops	No.		Inch Dia.		Total ft ³					
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical			
Characterize	4	8 8	16	Silippei	Skilled	Oliskilled	4			
Equip. Release	8	16	32				8			
Pack/Load waste	U	10	JZ				U			
Decon/Remed.										
Final Survey	4	8	16				4			
i iiiai oui roy	7	<u> </u>	10		<u> </u>		Т.			
# Lab Samples to I	Lab Samples to be collected 1									

Building	245	Roc	om or Area	B23			
ı	Calibration	& Radiation	Detector To	eting			
					and detector c	alibration (no	utron 9
Hee	gamma)	experimenta	ıı ı c sımy (öö	z.us uniy)	and detector C	anbradori (ne	ullOll &
Use	yanına)						
Radionuclides, Ex	tent of Cor	ntamination	_	Unsealed b	oeta-gamma		
Area Classification	n	1					
# Floors above Ba	sement	3					
# Floors below Ro	of	1					_
			%	ft2			
			needing	needing			
	Total	Class 1	Remed.	Remed.	Class 2	Class 3	
Floor Area, ft ²	1434	1434					n.
Wall Area, ft ²	1666	1666					
Ceiling Area, ft ²	1434	1434					
Componer	nts	Total ft3	Fraction RW	Fraction DAW	Fraction Metal	Fraction Lead	Fraction Concrete
Glove Boxes							
Hoods							
Benches/Tables/D	esks	50					
Casework/Cabinet	s	80					
Reefers, Large Eq	uipment	1000					
Misc. Equip./Labw	are	70					
Hot Cells							
Storage Tanks							
Other		2					
Sinks							
Drains							
Ventilation Drops							
•					-		
Drains	No.		Inch Dia.		Total ft ³		
Ventilation Drops	No.		Inch Dia.		Total ft ³		
•							<u> </u>
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical
Characterize	8	16	32				8
Equip. Release	4	8	16			ļ	4
Pack/Load waste	1	2	4	4	4	4	1
Decon/Remed.	1	2	4		8	8	1
Final Survey	6	12	24				6
# Lab Samples to	be collecte	d	2				
3 drums with sour	ces includ	ing Cf-252 se	ources, see	specialty	waste)		

3 drums with sources including Cf-252 sources, see specialty waste)
Other waste is lead bricks in room 2ft3

Building	245	Ro	om or Area	R25 delete	this page see	B025	I
Danang	240	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		e as appro		D020	
Use			40101	o do appro	pridio		
Radionuclides, Ex	tent of Cor	ntamination			TRU	, U	
Area Classification	n	1]				
# Floors above Ba	sement	1					
# Floors below Ro	of	3					
			%	ft2			
			needing	needing			
	Total	Class 1	Remed.	Remed.	Class 2	Class 3	
Floor Area, ft ²							
Wall Area, ft ²							
Ceiling Area, ft ²							
						•	
			Fraction	Fraction	Fraction	Fraction	Fraction
Componer	nts	Total ft3	RW	DAW	Metal	Lead	Concrete
Glove Boxes							
Hoods							
Benches/Tables/D	esks						
Casework/Cabinet	is						
Reefers, Large Eq	uipment						
Misc. Equip./Labw	are						
Hot Cells							
Storage Tanks							
Other (Lead glass	shields)						
Sinks							
Drains							
Ventilation Drops							
			_		_		_
Drains	No.		Inch Dia.		Total ft ³		
Ventilation Drops	No.		Inch Dia.		Total ft ³		
•	'		-		1		•
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical
Characterize	_						
Equip. Release							
Pack/Load waste							
Decon/Remed.						_	
Final Survey						_	
# Lab Samples to	be collecte	d					

Building 245 Room or Area B26										
11	1 E MV / Do	amitras								
Use	1.5 MV Dyr	iamitron,								
Radionuclides, Ex	tent of Con	tamination		HEU. Am-	241, & Co-60					
Area Classification		3] '							
# Floors above Ba			1							
# Floors below Ro		2	1							
			%	ft2						
			needing	needing						
	Total	Class 1	Remed.	Remed.	Class 2	Class 3				
Floor Area, ft ²	220					220				
Wall Area, ft ²	1000					1000				
Ceiling Area, ft ²	220					220				
							-			
_			Fraction	Fraction	Fraction	Fraction	Fraction			
Componer	nts	Total ft3	RW	DAW	Metal	Lead	Concrete			
Glove Boxes										
Hoods										
Benches/Tables/D		200								
Casework/Cabinet		80								
Reefers, Large Eq										
Misc. Equip./Labw	are									
Hot Cells										
Storage Tanks										
Other (lead bricks))									
Sinks										
Drains										
Ventilation Drops										
Drains	No.		Inch Dia.		Total ft ³		-			
	No.		Inch Dia.		Total ft ³					
Ventilation Drops	NO.		Jilich Dia.		Trotal It		-			
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical			
Characterize	1	2	4	- 1-1			1			
Equip. Release	1	2	4				1			
Pack/Load waste										
Decon/Remed.										
Final Survey	1	2	4				1			
# Lab Samples to be collected										

Building	245	Room or Area B37								
Use	Vacuum Sy	stems Setup	1							
Radionuclides, Ex	tent of Con	tamination	i	Co.60 Sr.00	sealed sources (u	sed in 1060 80)				
Area Classification		3]	C0-00, 31-90	sealed sources (d.	sed III 1900-00)				
# Floors above Ba										
# Floors below Ro		3								
# 1 10010 2010 H	0.		%	ft2			•			
			needing	needing						
	Total	Class 1	Remed.	Remed.	Class 2	Class 3				
Floor Area, ft ²	200					200	i			
Wall Area, ft ²	840					840	•			
Ceiling Area, ft ²	200					200	1			
_							•			
			Fraction	Fraction	Fraction	Fraction	Fraction			
Componer	nts	Total ft3	RW	DAW	Metal	Lead	Concrete			
Glove Boxes										
Hoods										
Benches/Tables/D	esks	80								
Casework/Cabinet	s	120								
Reefers, Large Eq	uipment	200								
Misc. Equip./Labw	are	50								
Hot Cells										
Storage Tanks										
Other										
Sinks		20								
Drains										
Ventilation Drops										
							•			
Drains	No.	1	Inch Dia.	2	Total ft ³					
Ventilation Drops	No.		Inch Dia.		Total ft ³					
				01:	01:11		0			
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical			
Characterize	1	2	4				1			
Equip. Release	1	2	4			4	1			
Pack/Load waste	0.25	0.5			1	1	0.25			
Decon/Remed.			4							
Final Survey	1	2	4				1			
# Lab Samples to be collected										

NOTE: ~2 ft³ Bioassay waste in fridge assumed to be removed prior to decommissioning.

Building 245 Room or Area B44											
Use	HPLC Valid	dation & Radi	oactive labe	elina							
	LO TAIR		25.51.70 1000	9							
Radionuclides, Ex Area Classificatio	tent of Cor	tamination	_	TRU, U, B	eta-gamma						
		1	·								
# Floors above Ba	sement										
# Floors below Ro	of	3					_				
			%	ft2							
			needing	needing							
	Total	Class 1	Remed.	Remed.	Class 2	Class 3	ļ				
Floor Area, ft ²	100	100		10							
Wall Area, ft ²	480	480									
Ceiling Area, ft ²	100	100									
			Fraction	Fraction	Fraction	Fraction	Fraction				
Componer	nts	Total ft3	RW	DAW	Metal	Lead	Concrete				
Glove Boxes		0.0	0 -								
Hoods		60	0.5		1						
Benches/Tables/D		0.10									
Casework/Cabinet		210	0.2	0.5	0.5						
Reefers, Large Eq Misc. Equip./Labw	uipment	40	0.5	0.0	1	ļ					
Misc. Equip./Labw Hot Cells	are	60	0.5	8.0	0.2						
Storage Tanks Other											
Sinks		4									
onks Drains		4									
Ventilation Drops		26.7									
ventilation brops		20.7									
Drains	No.	1	Inch Dia.	2	Total ft ³						
Ventilation Drops	No.	1	Inch Dia.	16	Total ft ³	26.7					
			· .		•		•				
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical				
Characterize	4	8	16				4				
Equip. Release Pack/Load waste	4	8	16				4				
Pack/Load waste	0.5	1	2	2	2	2	0.5				
Decon/Remed.	1	2	4		4	4	1				
Final Survey	4	8	16			<u> </u>	4				
# Lab Samples to be collected 1											

Note: fixed contamination area on floor.

Building	245	Roo	om or Area	B46			
Use	Currently c	leaned out					
Radionuclides, Ex	tent of Cor	ntamination		ITRILLI SI	r-90, beta-gam	ma low ener	rav.
Area Classification		1	1	11(0, 0, 0)	i-90, beta-gain	ma, low ener	99
# Floors above Ba		1	†				
# Floors below Ro		3	1				
			%	ft2			
			needing	needing			
	Total	Class 1	Remed.	Remed.	Class 2	Class 3	
Floor Area, ft ²	300	300	_				
Wall Area, ft ²	700	700					
Ceiling Area, ft ²	300	300					
			Fraction	Fraction	Fraction	Fraction	Fraction
Componer	nts	Total ft3	RW	DAW	Metal	Lead	Concrete
Glove Boxes					_		
Hoods		50	0.1		1		
Benches/Tables/D	esks						
Casework/Cabinets							
Reefers, Large Eq							
Misc. Equip./Labw	are	20					
Hot Cells							
Storage Tanks							
Other							
Sinks		10	0.1		1		
Drains		0.1	0.1	0.5	0.5		
Ventilation Drops		125.0	0.1	0.5	0.5		
Drains	No.	1	Inch Dia.	2	Total ft ³	0.1	1
Ventilation Drops	No.	3	Inch Dia.	20	Total ft ³	125.0	
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical
Characterize	4	8	16	Jilippei	Okinica	SHOKINGO	4
Equip. Release	4	8	16				4
Pack/Load waste	0.5	1	2	2	2	2	0.5
Decon/Remed.	0.5	1	2		2	2	0.5
Final Survey	4	8	16				4
# Lab Samples to	<u> </u>	1		1	1	·	

Building	245 Room or Area B47									
11	Maakina O	a a n /fa	ا سحام مما ب	OK 100 O T T	uma nta \					
Use	iviacnine Si	nop (formerly	ion chamb	er measure	ements)					
Radionuclides, Ex	tent of Cor	tamination		TRU, U. S	r-90, beta-gam	ma. low ene	rav I			
Area Classificatio		3] '	1110, 0, 0	r oo, sota gam	ma, ion one.	9)			
# Floors above Ba			1							
# Floors below Ro	oof	3	1							
			%	ft2			Ī			
			needing	needing						
	Total	Class 1	Remed.	Remed.	Class 2	Class 3				
Floor Area, ft ²	232					232	1			
Wall Area, ft ²	900					900	1			
Ceiling Area, ft ²	232					232	İ			
<u> </u>					•	•	•			
			Fraction	Fraction	Fraction	Fraction	Fraction			
Compone	nts	Total ft3	RW	DAW	Metal	Lead	Concrete			
Glove Boxes										
Hoods										
Benches/Tables/D		100								
Casework/Cabine		196								
Reefers, Large Eq		300								
Misc. Equip./Labw	/are	200								
Hot Cells										
Storage Tanks										
Other										
Sinks										
Drains										
Ventilation Drops										
	ı		.	ī	1 •		1			
Drains	No.		Inch Dia.		Total ft ³					
Ventilation Drops	No.		Inch Dia.		Total ft ³					
Dawaan kassa	N/	0	LUD Tara	Ohim m	Okan-a	l Heat-Weit	Clarical			
Person-hours Characterize	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical			
	1	2	4				1			
Equip. Release Pack/Load waste	1	2	4							
Decon/Remed.										
	1	2	4				1			
Final Survey	1		4		1	<u> </u>	<u> </u>			
# Lab Samples to be collected										

Note: Norm sample taken in room B41.

Building	245	Roo	om or Area	B48				
Use	Radiochem	istry Lab						
Dadiamalidas Es	446-0	.4 ! 4!	ı	A II II	-15-1	- I Distantant	1	
Radionuclides, Ex			ا ا	Ali radionu	clides inc. mixe	ea Plutonium		
Area Classification		1	4					
# Floors above Ba			4					
# Floors below Ro	OI		%	ft2	I	I	T'	
			needing	needing				
	Total	Class 4	Remed.	Remed.	Class 2	Class 2		
F1 A 5,2	Total	Class 1	Remea.	Remea.	Class 2	Class 3		
Floor Area, ft ²	240	240						
Wall Area, ft ²	700	700						
Ceiling Area, ft ²	240	240						
Componer	nts	Total ft3	Fraction RW	Fraction DAW	Fraction Metal	Fraction Lead	Fraction Concrete	
Glove Boxes	113	90	0.5	0.7	0.3	Loud	Concrete	
Hoods		150	1	0.1	1			
Benches/Tables/D	esks	100						
Casework/Cabinet		360	0.05	0.2	0.8			
Reefers, Large Eq	_	000	0.00	0.2	0.0			
Misc. Equip./Labw		100	0.1	0.9	0.1			
Hot Cells	u. o	100	0.1	0.0	0.1			
Storage Tanks								
Other		1	1					
Sinks		24	1		1			
Drains			1	0.5	0.5			
Ventilation Drops			0.1	0.0	1			
Tommation 2. opo			0.1					
Drains	No.	1	Inch Dia.	2	Total ft ³			
Ventilation Drops	No.	4	Inch Dia.	10	Total ft ³			
•			- ! '		4		1	
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical	
Characterize	4	8	16				4	
Equip. Release	8	16	32				8	
Pack/Load waste	0.5	1	2	2	2	2	0.5	
Decon/Remed.								
Final Survey	4	8	16				4	
# Lab Samples to	be collecte	d	1					

NOTE: 1ft3 of contaminated lead bricks, see speciality waste TAB.

Building	245	Ro	om or Area	B49			
						-	
Use	SRM Stora	ge					
Radionuclides, Ex	tent of Con	tamination		All Radion	uclides		
Area Classification		1] '				
# Floors above Ba	sement		1				
# Floors below Ro	of	3					_
			%	ft2			
			needing	needing			
	Total	Class 1	Remed.	Remed.	Class 2	Class 3	ı
Floor Area, ft ²	160	160	0.01	1.6			•
Wall Area, ft ²	672	672	0.1	67.2			
Ceiling Area, ft ²	160	160					
			Fraction	Fraction	Fraction	Fraction	Fraction
Componer	nte	Total ft3	RW	DAW	Metal	Lead	Concrete
Glove Boxes		10101110	1111	DAII	Wictai	Leau	Jonorete
Hoods		60	0.5		1		
Benches/Tables/D	esks						
Casework/Cabinet		100					
Reefers, Large Eq							
Misc. Equip./Labw	are	50					
Hot Cells							
Storage Tanks							
Other (lead bricks))	10	0.2			1	
Sinks		24					
Drains		44.7					
Ventilation Drops		41.7					
Drains	No.	1	Inch Dia.	2	Total ft ³		
Ventilation Drops	No.	1	Inch Dia.	20	Total ft ³	41.7	
ventuation brops	140.	ı	Jilicii Dia.	20	1 otal it	71.7	
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical
Characterize	4	8	16				4
Equip. Release	8	16	32				8
Pack/Load waste	0.5	1	6	6	6	6	0.5
Decon/Remed.	4	8	16	8	16	16	4
Final Survey	4	8	16				4
# Lab Samples to I	be collecte	d	2				
Note: ~4ft ² & 67 ft ³	- f f 4			l' 4' 6	c : 1 .		

Note: ~4ft² & 67 ft³ of free standing wall needs remediation for fixed contamination.

Building	245	Ro	om or Area	B50			
Use	Document :	Storage Roo	m (Previous	Counting I	ab)		
Radionuclides, Ex			1	All radionu	clides		
Area Classification		1	4				
# Floors above Ba			4				
# Floors below Ro	OT	3	%	ft2	1	1	T
				_			
		01 4	needing	needing	0. 0		
 2	Total	Class 1	Remed.	Remed.	Class 2	Class 3	<u> </u>
Floor Area, ft ²	400	400					
Wall Area, ft ²	1200	1200					
Ceiling Area, ft ²	400	400					
Componer	nts	Total ft3	Fraction RW	Fraction DAW	Fraction Metal	Fraction Lead	Fraction Concrete
Glove Boxes		Total Ito	1	D /(()	l	1	
Hoods	ŀ	90					
Benches/Tables/D	esks	50					
Casework/Cabinet		150					
Reefers, Large Eq		250					
Misc. Equip./Labw	•	40					
	u. 0	10					
Hot Cells							
Hot Cells Storage Tanks							
Hot Cells Storage Tanks Other		3					
Hot Cells Storage Tanks Other Sinks		3					
Hot Cells Storage Tanks Other Sinks Drains							
Hot Cells Storage Tanks Other Sinks Drains		3 83.3					
Hot Cells Storage Tanks Other Sinks Drains Ventilation Drops	No.		Inch Dia.	2	Total ft ³		
Hot Cells Storage Tanks Other Sinks Drains Ventilation Drops		83.3				83.3	
Hot Cells Storage Tanks Other Sinks Drains Ventilation Drops	No. No.	83.3	Inch Dia.	2 20	Total ft ³	83.3	
Hot Cells Storage Tanks Other Sinks Drains Ventilation Drops Drains Ventilation Drops		83.3 1 2 Supvsr	Inch Dia.			83.3 Unskilled	Clerical
Hot Cells Storage Tanks Other Sinks Drains Ventilation Drops Drains Ventilation Drops Person-hours Characterize	No.	83.3 1 2 Supvsr 8	Inch Dia. HP Tech 16	20	Total ft ³		4
Hot Cells Storage Tanks Other Sinks Drains Ventilation Drops Drains Ventilation Drops Person-hours Characterize Equip. Release	Mgr 4 8	83.3 1 2 Supvsr	Inch Dia. HP Tech 16 32	20 Shipper	Total ft ³ Skilled	Unskilled	4 8
Hot Cells Storage Tanks Other Sinks Drains Ventilation Drops Drains Ventilation Drops Person-hours Characterize Equip. Release Pack/Load waste	No.	83.3 1 2 Supvsr 8	Inch Dia. HP Tech 16	20	Total ft ³		4
Hot Cells Storage Tanks Other Sinks Drains Ventilation Drops Drains Ventilation Drops Person-hours Characterize Equip. Release	Mgr 4 8	83.3 1 2 Supvsr 8 16	Inch Dia. HP Tech 16 32	20 Shipper	Total ft ³ Skilled	Unskilled	4 8

Building	245	Roo	om or Area	B51			
1100	Equipment	actus lab					1
Use	Equipment	setup lab					
Radionuclides, Ex	tent of Cor	tamination	ļ	Uns	ealed U; Seale	ed U. TRU. C	o-60
Area Classification		1] '	3110		<u> </u>	
# Floors above Ba		1	1				
# Floors below Ro	of	3					_
			%	ft2			
			needing	needing			
	Total	Class 1	Remed.	Remed.	Class 2	Class 3	
Floor Area, ft ²	200	200					
Wall Area, ft ²	900	900					
Ceiling Area, ft ²	200	200					
Componer	nts	Total ft3	Fraction RW	Fraction DAW	Fraction Metal	Fraction Lead	Fraction Concrete
Glove Boxes	-			111			205.0.0
Hoods							
Benches/Tables/D	esks	50					
Casework/Cabinet	s	600					
Reefers, Large Eq	uipment						
Misc. Equip./Labw	are						
Hot Cells							
Storage Tanks							
Other							
Sinks							
Drains		0.3					
Ventilation Drops							
Dunium	. 1) 	0	T-4-1 &3	0.0	1
Drains	No.	2	Inch Dia.	2	Total ft ³	0.3	
Ventilation Drops	No.		Inch Dia.		Total ft ³		l
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical
Characterize	4	8	16	Simppoi	O.K.IIIOG	CHOKING	4
Equip. Release	8	16	32				8
Pack/Load waste	0.5	1	2	2	2	2	0.5
Decon/Remed.							
Final Survey	4	8	16				4
# Lab Samples to	be collecte	d	1				

Note: room not used in past ~12 years

Building	245	Roc	om or Area	B53				
	Interim Wa	ste/Source S	Storage					
		ng of laborate		ical waste.				
- '		.9	<u> </u>					
Radionuclides, Ex	tent of Con	tamination			see al	bove		
Area Classification	L	3]					
# Floors above Ba								
# Floors below Ro	of		2/		•	_	7	
			%	ft2			1	
			needing	needing		'	1	
2	Total	Class 1	Remed.	Remed.	Class 2	Class 3	1	
Floor Area, ft ²	200		<u> </u>			400	1	
Wall Area, ft ²	900					1200	1	
Ceiling Area, ft ²	200					400	1	
			Fraction	Fraction	Fraction	Fraction	Fraction	
Componer	ata	Total ft3	RW	DAW	Metal		Concrete	
Glove Boxes	iis [Totalits	T	DAW	Ivietai	Lead	Concrete	
Hoods			 		 	 	 	
Benches/Tables/D	neke	200	 		 	 '	 	
Casework/Cabinet		200	+		 		 	
Reefers, Large Eq	_		+		 		 	
Misc. Equip./Labw	- b	50	+		 	+		
Hot Cells	u. 0		 		 	 		
Storage Tanks			1					
Other						 		
Sinks						1		
Drains						1		
Ventilation Drops								
-	•						·	
Drains	No.		Inch Dia.		Total ft ³]	
Ventilation Drops	No.		Inch Dia.		Total ft ³]	
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical	
Characterize	1	2	4		1	-	1	
Equip. Release	1	2	4			 	1	
Pack/Load waste						 		
Decon/Remed.						1		
Final Survey	1	2	4			1	1	
# Lab Samples to I	be collecte	d		 	•			

Building	245	Roo	om or Area	B Wing - A	bove Grade	Roll-up	
Use							
i '							
Dadiamuslidas Ev	tant of Con	tamination.					
Radionuclides, Ext Area Classification		tamination	1				
# Floors above Bas			A				
# Floors above Bas			A				
# FIDUIS DEIDW INC	01		%	ft2			1
		1	needing	needing			1
	Total	Class 1	Remed.	Remed.	Class 2	Class 3	1
Floor Area, ft ²	7492	5272		684.55	630	2990	1
Wall Area, ft ²	17567	11607		112	2000	6760	1
Ceiling Area, ft ²	7492	5272	†	94.55	630	2990	1
			<u>.l</u>	1			1
			Fraction				ft ³
Componer	nts	Total ft3	RW	ft ³ DAW	ft ³ Metal	ft ³ Lead	Concrete
Glove Boxes		30		30			
Hoods		950					
Benches/Tables/De	l l	829					
Casework/Cabinet		2747					
Reefers, Large Equ		6010					
Misc. Equip./Labwa	are	409					
Hot Cells		12		<u> </u>	<u> </u>	<u> </u>	
Storage Tanks		<u> </u>		<u> </u>	<u> </u>	<u> </u>	
Other		531	<u> </u>	<u> </u>	<u> </u>	<u> </u> '	
Sinks		32	<u> </u>	<u> </u>	<u> </u>	<u> </u> '	
Drains		17.1	<u> </u>	<u> </u>	<u> </u>	<u> </u> '	
Ventilation Drops	ļ	88.1		<u> </u>			
İ							
Drains	No.		Inch Dia.		Total ft ³		1
		 	_	 	Total ft ³	 	1
Ventilation Drops	No.		Inch Dia.	<u> </u>] l otal it		i
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical
Characterize	57	114	228				57
Equip. Release	67	134	268				66
Pack/Load waste	37.2	74.5	150.5	70	157	157	37.2
Decon/Remed.	8.5	20.75	58	12	64	64	8.3
Final Survey	51.5	104	206	<u> </u>			51.5
		_		1			
# Lab Samples to I	pe collecte	d	20	i			
1							

Building	245	Ro	om or Area	B125				
lloo	Catua Lab							
Use	Setup Lab							
Radionuclides, Ex		tamination		Formerly S	Sealed Ra-B	e		
Area Classification	า	3						
# Floors above Ba	sement							
# Floors below Ro	of							
			% needing	ft2 needing				
2	Total	Class 1	Remed.	Remed.	Class 2	Class 3		
Floor Area, ft ²	120					120		
Wall Area, ft ²	880					880		
Ceiling Area, ft ²	120					120		
Componer	nts	Total ft3	Fraction RW	Fraction DAW	Fraction Metal	Fraction Lead	Fraction Concrete	
Glove Boxes								
Hoods								
Benches/Tables/D		20						
Casework/Cabinet	-	45						
Reefers, Large Equ		200						
Misc. Equip./Labw	are							
Hot Cells								
Storage Tanks								
Other								
Sinks								
Drains								
Ventilation Drops								
Drains	No.		Inch Dia.		Total ft ³			
Ventilation Drops	No.		Inch Dia.		Total ft ³			
t chiliation brops	140.		Jilion Dia.] . Οιαι τι	<u> </u>	I	
Person-hours Characterize	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical	
Characterize	1	2	4				1	
Equip. Release	1	2	4				1	
Pack/Load waste Decon/Remed.								
Decon/Remed.								
Final Survey	0.5	2	2				0.5	
# Lab Samples to I	be collecte	d						

Building	245	Ro	om or Area	B127			
		ers, Counting					ers (dose
Use	calibrators)	and the Wal	lac Wizard 2	2480 Nai ga	amma well c	ounter	
Radionuclides, Ex	tent of Con	tamination		Medical Iso	otopes (Sho	rt half-life)	
Area Classification		2	1			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
# Floors above Ba	sement						
# Floors below Ro	of						
			%	ft2			
			needing	needing			
	Total	Class 1	Remed.	Remed.	Class 2	Class 3	
Floor Area, ft ²	150				150		
Wall Area, ft ²	600				600		
Ceiling Area, ft ²	150				150		
		T-4-1-66	Fraction	Fraction	Fraction	Fraction	Fraction
Componer	nts	Total ft3	RW	DAW	Metal	Lead	Concrete
Glove Boxes							
Hoods Benches/Tables/December 1	aalsa	400					
Casework/Cabinet		120 100					
Reefers, Large Equ		500					
Misc. Equip./Labw	-	50					
Hot Cells	aic	30					
Storage Tanks							
Other							
Sinks							
Drains							
Ventilation Drops							
			-		-		
Drains	No.		Inch Dia.		Total ft ³		
Ventilation Drops	No.		Inch Dia.		Total ft ³		
			T		<u> </u>	I	<u> </u>
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	
Characterize	2 1	2	8				2
Equip. Release Pack/Load waste	I		4				l l
Decon/Remed.							
Final Survey	1	2	4				1
i mai ouivey	ı		1 +		1	<u> </u>	ı ı
# Lab Samples to I	be collecte	d	1]			
		-		I			

Building	245	Ro	om or Area	B131			
Haa	DAM Doos	ivina					
Use	RAM Rece	iving					
Radionuclides, Ex	tent of Con	ntamination		Th. Beta-o	amma, & lo	w energy	
Area Classification		2	1	, == 9	<u> </u>		
# Floors above Ba		1					
# Floors below Ro		2					
			%	ft2]
			needing	needing			
	Total	Class 1	Remed.	Remed.	Class 2	Class 3	
Floor Area, ft ²	480				480		
Wall Area, ft ²	1400				1400		
Ceiling Area, ft ²	480				480		
							·
			Fraction	Fraction	Fraction	Fraction	Fraction
Componer	nts	Total ft3	RW	DAW	Metal	Lead	Concrete
Glove Boxes		400					
Hoods		100					
Benches/Tables/D		70					
Casework/Cabinet		4	4				4
Reefers, Large Equ		150	1				1
Misc. Equip./Labw	are						
Hot Cells							
Storage Tanks		4.0					
Other (HEPA filters	S)	10	1	1			
Sinks							
Drains		20.0					
Ventilation Drops		20.8					
Drains	No.		Inch Dia.		Total ft ³		
Ventilation Drops	No.	3	Inch Dia.	10	Total ft ³	20.8	
ventilation brops	140.	<u> </u>	Jilicii bia.	10	Jiotaiit	20.0	
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical
Characterize	4	8	16				4
Equip. Release	4	8	16				4
Pack/Load waste							
Decon/Remed.							
Final Survey	2	4	8				2
# Lab Samples to I	be collecte	d	1	Sample of	HEPA at de	ecommission	ning

Note: bagged HEPA filters an d equip. in room.

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Building	245	Ro	om or Area	B132				
Ш	DAM Store	~~					1	
Use	RAM Stora	ye						
Radionuclides, Ex	tent of Con	tamination		All: TRL	J, U, Beta-g	amma, Low	E, Sr-90	
Area Classification		1] '		, -, <u>J</u>	,	,	
# Floors above Ba	sement	1	1					
# Floors below Ro	of	2	1					
			%	ft2				
			needing	needing				
	Total	Class 1	Remed.	Remed.	Class 2	Class 3		
Floor Area, ft ²	280	280	1	280				
Wall Area, ft ²	1050	1050						
Ceiling Area, ft ²	280	280						
			Fraction	Eroction	Eroction	Erection	Fraction	
Componer	nte	Total ft3	RW	Fraction DAW	Fraction Metal	Fraction Lead	Concrete	
Glove Boxes	[Total Its	1	DATE	Ivictai	Leau	Concrete	
Hoods								
Benches/Tables/D	esks							
Casework/Cabinet	l l							
Reefers, Large Eq								
Misc. Equip./Labw								
Hot Cells								
Storage Tanks	ŀ							
Other		250						
Sinks								
Drains								
Ventilation Drops		0.3	1		1			
•			_		_			
Drains	No.		Inch Dia.		Total ft ³			
Ventilation Drops	No.	1	Inch Dia.	2	Total ft ³	0.3		
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical	
Characterize	4	8	16				4	
Equip. Release	8	16	32				8	
Pack/Load waste	0.25	0.5	1	1	1	1	0.25	
Decon/Remed.	0.25	0.5	1	4	4	4	0.25	
Final Survey	4	8	16				4	
# Lab Samples to	be collecte	d	1					
Note: Other waste	abovo is co	noroto harr	ior welle					

Note: Other waste above is concrete barrier walls

Building	245	Roo	om or Area	B133				
Use	RAM Rece	iving (current	ly empty)					
Radionuclides, Ex		tamination	1	Beta-gamn	na, U, Th			
Area Classification		1						
# Floors above Ba		1						
# Floors below Ro	of	1	0/	610	_	1	1	
			%	ft2				
			needing	needing				
	Total	Class 1	Remed.	Remed.	Class 2	Class 3		
Floor Area, ft ²	160	160						
Wall Area, ft ²	952	952						
Ceiling Area, ft ²	160	160						
Componer	nts	Total ft3	Fraction RW	Fraction DAW	Fraction Metal	Fraction Lead	Fraction Concrete	
Glove Boxes		1010.110			1			
Hoods		100						
Benches/Tables/D	esks							
Casework/Cabinet		200						
Reefers, Large Equ								
Misc. Equip./Labw		40						
Hot Cells								
Storage Tanks								
Other		5						
Sinks		4						
Drains		0.3						
Ventilation Drops		5.0						
•	!							
Drains	No.	2	Inch Dia.	2	Total ft ³	0.3		
Ventilation Drops	No.	1	Inch Dia.	12	Total ft ³	5.0		
					_	•		
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical	
Characterize	4	8	16				4	
Equip. Release	8	16	32				8	
Pack/Load waste								
Decon/Remed.			4.5					
Final Survey	4	8	16				4	
# Lab Samples to I	be collecte	d	1					

Laboratory Areas

Building	245	Ro	om or Area	B140			
Hen	High Dose	Calibration L	ah				
USE	riigii Dose	Calibration	<u>ab</u>				
Radionuclides, Ext	tent of Con	itamination		Sealed Co	-60 source	only	
Area Classification		3]			•	
# Floors above Bas		1]				
# Floors below Ro	of	2					-
			%	ft2			
			needing	needing			
	Total	Class 1	Remed.	Remed.	Class 2	Class 3	
Floor Area, ft ²	1400					1400	
Wall Area, ft ²	2800					2800	
Ceiling Area, ft ²	1400					1400	
							-
_			Fraction	Fraction	Fraction	Fraction	Fraction
Componer	nts	Total ft3	RW	DAW	Metal	Lead	Concrete
Glove Boxes							
Hoods							
Benches/Tables/De		500					
Casework/Cabinets		400					
Reefers, Large Equ	-	500					
Misc. Equip./Labwa	are	100					
Hot Cells							
Storage Tanks							
			1				
Other							
Other Sinks		3					
Other Sinks Drains		0.1					
Other Sinks Drains							
Other Sinks Drains Ventilation Drops	No	0.1 1.9	Inch Dia	2	Total ft ³	0.1	
Other Sinks Drains Ventilation Drops Drains	No.	0.1 1.9	Inch Dia.	2	Total ft ³	0.1	
Other Sinks Drains Ventilation Drops Drains	No. No.	0.1 1.9	Inch Dia.	2 2	Total ft ³	0.1	
Other Sinks Drains Ventilation Drops Drains Ventilation Drops		0.1 1.9	-				Clerical
Other Sinks Drains Ventilation Drops Drains Ventilation Drops Person-hours Characterize	No.	0.1 1.9 1 7	Inch Dia.	2	Total ft ³	1.9	Clerical
Other Sinks Drains Ventilation Drops Drains Ventilation Drops Person-hours Characterize Equip. Release	No. Mgr	0.1 1.9 1 7 Supvsr	Inch Dia.	2	Total ft ³	1.9	
Other Sinks Drains Ventilation Drops Drains Ventilation Drops Person-hours Characterize Equip. Release Pack/Load waste	No. Mgr 1	0.1 1.9 1 7 Supvsr	Inch Dia. HP Tech 4	2	Total ft ³	1.9	1
Other Sinks Drains Ventilation Drops Drains Ventilation Drops Person-hours Characterize Equip. Release	No. Mgr 1	0.1 1.9 1 7 Supvsr	Inch Dia. HP Tech 4	2	Total ft ³	1.9	1

Building	245	Roo	om or Area	B141			
Use	Neutron Ca	alibration Lab					
Radionuclides, Ex	tent of Con	tamination		Sealed Ar	nBe, PuBe,	RaBe, Cf-2	52
Area Classification # Floors above Ba	า	1					
# Floors above Ba	sement	1					
# Floors below Ro	of	2	1				
			%	ft2			
			needing	needing			
	Total	Class 1	Remed.	Remed.	Class 2	Class 3	
Floor Area, ft ²	250	250	0.1	25			
Wall Area, ft ²	1120	1120	0.1	112			
Ceiling Area, ft ²	250	250					
Componer	nts	Total ft3	Fraction RW	Fraction DAW	Fraction Metal	Fraction Lead	Fraction Concrete
Glove Boxes							
Hoods							
Benches/Tables/D	esks	3	0.25	0.5	0.5		
Casework/Cabinet	s	100	0.05	0.5	0.5		
Reefers, Large Equip./Labw	uipment	10					
Misc. Equip./Labw	are	4					
Hot Cells		12	1	0.75	0.25		
Storage Tanks							
Other (lead bricks) Sinks		30					
		3					
Drains		0.1					
Ventilation Drops		8.0					
	ĺ		1	1	1 1		1
Drains	No.	1	Inch Dia.	2	Total ft ³	0.1	
Ventilation Drops	No.	3	Inch Dia.	2	Total ft ³	0.8	
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical
Characterize	4	8	16	1-1			4
Equip. Release	8	16	32				8
Pack/Load waste Decon/Remed.	0.5	1	2	2	4	4	0.5
Decon/Remed.	0.5	1	2		4	4	0.5
Final Survey	4	8	16				4
# Lab Samples to I	be collecte	d	2				

Building 245 Room or Area B142 & B143												
	Neutron Sc	ource Strengt	h Calibration	Facility								
		n calibration			areas: conf	trol room R1	41: Ma					
Use		e storage roo										
330	2411 00410	S Storage 100	D i to, air	a ano oagot		s.ago aroa i	J . 12.					
Radionuclides, Ex	tent of Con	ntamination		see above								
Area Classification		1] '									
# Floors above Ba	sement	1	1									
# Floors below Ro	of	2					_					
			%	ft2								
			needing	needing								
	Total	Class 1	Remed.	Remed.	Class 2	Class 3						
Floor Area, ft ²	720	720										
Wall Area, ft ²	1400	1400										
Ceiling Area, ft ²	720	720										
			Fue attac	Fue etter	Fuection	Fue e4!	Fue et!					
0	-4-	T-4-1 #40	Fraction	Fraction	Fraction	Fraction	Fraction					
Componer Glove Boxes	าเร	Total ft3	RW	DAW	Metal	Lead	Concrete					
Hoods					-							
Benches/Tables/D	oeke	50	0.5		1							
Casework/Cabinet		40	0.5		'							
Reefers, Large Eq	_	150										
Misc. Equip./Labw		100										
Hot Cells	u. o	100										
Storage Tanks												
Other (source drui	ms)	30										
Sinks	,											
Drains												
Ventilation Drops		0.8										
		,	_				•					
Drains	No.		Inch Dia.		Total ft ³							
Ventilation Drops	No.	3	Inch Dia.	2	Total ft ³	0.8						
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical					
Characterize	4	8	16				4					
Equip. Release	8	16	32				8					
Pack/Load waste	0.5	1	2	4	4	4	0.5					
Decon/Remed.	2		8		8	8	2					
Final Survey	4	8	16				4					
# Lab Samples to	be collecte	d	1									
Note: known conta	amination o	on benchtop	<u>.</u>									

NIST DCE Appendix B

Building	245	245 Room or Area B145										
Use	High Level	Radwaste St	orage, Form	ner source	calibration							
Radionuclides, Ex	tent of Con	tamination		TRU. Ra. I	Beta-gamma	a. Sr-90. Lov	νE					
Area Classification		1]	,,		, 0. 00, 20	<u>· </u>					
# Floors above Ba		1	1									
# Floors below Ro	of	2	1									
			% needing	ft2 needing								
	Total	Class 1	Remed.	Remed.	Class 2	Class 3						
Floor Area, ft ²	288	288	0.5	144								
Wall Area, ft ²	1120	1120										
Ceiling Area, ft ²	288	288										
Components		Total ft3	Fraction RW	Fraction DAW	Fraction Metal	Fraction Lead	Fraction Concrete					
Glove Boxes												
Hoods												
Benches/Tables/D	esks	3										
Casework/Cabinet	s	2	0.5	0.5	0.5							
Reefers, Large Equ	-											
Misc. Equip./Labw	are	10										
Hot Cells												
Storage Tanks												
Other (lead bricks/	pigs)	15	0.5			1						
Sinks												
Drains		0.0										
Ventilation Drops		0.6										
Drains	No.		Inch Dia.		Total ft ³							
Ventilation Drops	No.	2	Inch Dia.	2	Total ft ³	0.6						
					_		ı					
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical					
Characterize	6	12	24				6					
Equip. Release	1	2	4				1					
Pack/Load waste	0.25	0.5	1	1	2	2	0.25					
Decon/Remed.	0.5	1	2		2	2	0.5					
Final Survey	4	8	16				4					
# Lab Samples to I	be collecte	d	1									

Building	245	Roc	om or Area	B146				
Hea	DAM Mast	e Processing						
USE	KAWI Wasi	2 FIUUESSING						
Radionuclides, Ex	tent of Con	tamination	ŗ	TRU, Ra, F	Beta-gamma	a, Sr-90, Lov	w E	
Area Classification	n	1]					
# Floors above Ba	sement	1						
# Floors below Ro	of	1					_	
			%	ft2				
	1	1	needing	needing				
	Total	Class 1	Remed.	Remed.	Class 2	Class 3		
Floor Area, ft ²	273	273		_				
Wall Area, ft ²	1100	1100						
Ceiling Area, ft ²	273	273						
					= .41	- 41	- 41	
2	4	T 1-150	Fraction	Fraction	Fraction	Fraction	Fraction	
Componer	ıts	Total ft3	RW	DAW	Metal	Lead	Concrete	
Glove Boxes			<u> </u>		<u> </u>	ļ		
Hoods	_	<u> </u>	<u> </u>			<u> </u>		
Benches/Tables/Description		30	<u> </u>		ļ			
Casework/Cabinet		150	<u> </u>		<u> </u>			
Reefers, Large Equ								
Misc. Equip./Labw	are	50			<u> </u>			
Hot Cells			ļ		<u> </u>			
Storage Tanks					<u> </u>			
Other								
Sinks								
Drains								
Ventilation Drops								
			-		-		-	
Drains	No.		Inch Dia.		Total ft ³			
Ventilation Drops	No.		Inch Dia.		Total ft ³			
					<u> </u>	•		
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical	
Characterize	4	8	16				4	
Equip. Release	8	16	32				8	
Pack/Load waste								
Decon/Remed.								
Final Survey	4	8	16				4	
# Lab Samples to I	be collecte	d	1					

Building	245	Roo	om or Area	B152			
llea	Current So	lid Radwaste	Storage Pr	evious radi	ochemistry		
030	Ourient 00	ila rtaawaste	Otorage, i i	CVIOUS TAUI	ochemistry		
Radionuclides, Ex	tent of Con	tamination		TRU. Ra. B	eta-gamma. S	Sr-90, Low E	ner. Beta
Area Classification	1	1	1	,,	oue garrina,	o. oo, _o	
# Floors above Ba	sement	1					
# Floors below Ro		1					
	_		%	ft2			
			needing	needing			
	Total	Class 1	Remed.	Remed.	Class 2	Class 3	
Floor Area, ft ²	480	480	0.1	48			
Wall Area, ft ²	1100	1100					
Ceiling Area, ft ²	480	480		_			
Componer	nts	Total ft3	Fraction RW	Fraction DAW	Fraction Metal	Fraction Lead	Fraction Concrete
Glove Boxes							
Hoods		300	0.25		1		
Benches/Tables/D	esks	20					
Casework/Cabinet	S	700					
Reefers, Large Equips./Labw	uipment						
Misc. Equip./Labw	are	30					
Hot Cells							
Storage Tanks							
Other (RW storage Sinks	e)	100	1				
		8	0.1				
Drains		1.1					
Ventilation Drops		27.8	0.1		1		
	1		1 1		12		1
Drains	No.	8	Inch Dia.	2	Total ft ³	1.1	
Ventilation Drops	No.	8	Inch Dia.	10	Total ft ³	27.8	j
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical
Characterize	4	8	16				4
Equip. Release	4	8	16				4
Pack/Load waste Decon/Remed.	0.1	0.25	2	0.5	2	2	0.1
Decon/Remed.	0.5	1	2		2	2	0.5
Final Survey	4	8	16				4
# Lab Samples to I	be collecte	d	1				

Building	245	Roo	om or Area	B155				
Use	Storage Clo	oset used for	RAM waste	l				
			,	1				
Radionuclides, Ex			,		No	one		
Area Classification		3	4					
# Floors above Ba		1	4					
# Floors below Ro	ОТ	1	%	ft2	1		1	
			needing	needing				
	Total	Class 1	Remed.	Remed.	Class 2	Class 3		
Floor Area, ft ²	70	Olass I	ixemed.	ixemea.	Olass Z	70		
Wall Area, ft ²	280					280		
Ceiling Area, ft ²			 		<u> </u>			
Ceiling Area, π	70					70	j	
			Fraction	Fraction	Fraction	Fraction	Fraction	
Componer	nte	Total ft3	RW	DAW	Metal	Lead	Concrete	
Glove Boxes	11.5	Totalits	T T T	DAW	Ivietai	Leau	Concrete	
Hoods								
пооиs Benches/Tables/Desks								
Casework/Cabinet		6						
Reefers, Large Equ			1					
Misc. Equip./Labw	-							
Hot Cells								
Storage Tanks								
Other		8						
Sinks								
Drains	ľ							
Ventilation Drops								
	L				1]]		
Drains	No.		Inch Dia.		Total ft ³		1	
Ventilation Drops	No.		Inch Dia.		Total ft ³			
Tommation Bropo		-]] . o.a	<u> </u>	i	
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical	
Characterize	1	2	4				1	
Equip. Release	1	2	4				1	
Pack/Load waste								
Decon/Remed.								
Final Survey	1	2	4				1	
				_				
# Lab Samples to I	be collected	d						

Building 245 Room or Area B156 formerly Radiochemistry, currently Storing Lig/Gas Waste (Listed on Speciality **Use** Waste Tab) TRU, Ra, Beta-gamma, Sr-90, Low E Radionuclides, Extent of Contamination Area Classification # Floors above Basement 1 1 # Floors below Roof % ft2 needing needing Remed. Remed. Class 2 Class 3 **Total** Class 1 Floor Area, ft² 480 480 0.1 48 Wall Area, ft² 1100 1100 Ceiling Area, ft² 480 480 Fraction Fraction Fraction Fraction **Fraction** Components RW **DAW** Metal Concrete **Total ft3** Lead Glove Boxes Hoods 300 0.1 1 Benches/Tables/Desks 10 700 Casework/Cabinets 0.1 1 Reefers, Large Equipment 25 Misc. Equip./Labware **Hot Cells** Storage Tanks 75 Other (waste) 1 1 Sinks 10 **Drains** 1.0 **Ventilation Drops** 20.0 0.1 7 2 Total ft³ **Drains** No. Inch Dia. 1.0 Total ft³ **Ventilation Drops** 4 Inch Dia. 12 20.0 No. Person-hours Skilled Unskilled Mgr Supvsr **HP Tech** Shipper Clerical Characterize 8 16 32 8 2 Equip. Release 8 0.25 Pack/Load waste 0.1 0.5 0.5 2 2 0.1 Decon/Remed. 0.25 0.5 2 2 0.05 1 Final Survey 12 24 6 6 # Lab Samples to be collected 1

Building	245	Roo	om or Area	B157			
	Lliatorical	CDM Droduct	ion				
		SRM Product /aste Storage		d Waste an	lded to spec	rialty waste	tah
USE	Currently V	rasie Storage	, Note.Liqui	u wasie ac	ided to spec	Jaily Wasie	lab
Radionuclides, Ex	tent of Con	tamination		TRU. F	Ra. Beta-gar	mma, Sr-90,	Low E
Area Classification		1		,	<u>,</u>	, ,	
# Floors above Ba		1					
# Floors below Ro	of	1					
			%	ft2			
			needing	needing			
	Total	Class 1	Remed.	Remed.	Class 2	Class 3	
Floor Area, ft ²	450	450	0.1	45			
Wall Area, ft ²	1100	1100					
Ceiling Area, ft ²	450	450					
<u> </u>					•		
			Fraction	Fraction	Fraction	Fraction	Fraction
Componer	nts	Total ft3	RW	DAW	Metal	Lead	Concrete
Glove Boxes		30	1		1		
Hoods		150	1		1		
Benches/Tables/Des/Des/Des/Des/Des/Des/Des/Des/Des/D		3	0.1	0.5	0.5		
Casework/Cabinet		300	0.1	0.5	0.5		
Reefers, Large Equ	-						
Misc. Equip./Labw	are						
Hot Cells							
Storage Tanks	ļ						
Other Solid Waste	ļ	8	0.5	1			
Sinks	ļ	4	0.1		1		
Drains		1.1	0.1		1		
Ventilation Drops		10.0	0.1		1		
Drains	No.	2	Inch Dia.	4	Total ft ³	1.1	
	- I			12	Total ft ³		
Ventilation Drops	No.	2	Inch Dia.	12	j i otai it	10.0	
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical
Characterize	6	12	24				6
Equip. Release	4	8	16				4
Pack/Load waste	0.5	1	2	1	2	2	0.5
Decon/Remed.	0.5	1	2		2	2	0.5
Final Survey	4	8	16				4
# Lob Comples to 1	aa aallaata	.	4				
# Lab Samples to I	ve collecte	J.	1				

Note: Liquid radwaste stored in room is accounted for in tab 3.14

Building	245	Ro	Room or Area B200									
Use	Mechanica	l Equip, fans,	exhaust, H	EPA filters								
Radionuclides, Ex	tent of Con	tamination			var	ious						
Area Classification		1	ן '		Yai	1040						
# Floors above Ba		3	1									
# Floors below Ro		-	1									
			%	ft2								
			needing	needing								
	Total	Class 1	Remed.	Remed.	Class 2	Class 3						
Floor Area, ft ²	1891	1891	0.05	95								
Wall Area, ft ²	1565	1565										
Ceiling Area, ft ²	1891	1891	0.05	95								
•		T-4-1 60	Fraction	Fraction	Fraction	Fraction	Fraction					
Componer	nts	Total ft3	RW	DAW	Metal	Lead	Concrete					
Glove Boxes Hoods												
Benches/Tables/D	ooko											
Casework/Cabinet												
Reefers, Large Eq		4500	0.8		1							
Misc. Equip./Labw		4300	0.8		'							
Hot Cells	ale											
Storage Tanks												
Other												
Sinks												
Drains		13.3										
Ventilation Drops		10.0										
			٦ .		1 2							
Drains	No.	2	Inch Dia.	8	Total ft ³	13.3						
Ventilation Drops	No.		Inch Dia.		Total ft ³							
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical					
Characterize	4	8	16	- 1-1			4					
Equip. Release	8	16	32				8					
Pack/Load waste	35	70	140	60	140	140	35					
Decon/Remed.	4	16	40	8	40	40	4					
Final Survey	8	16	32				8					
# Lab Samples to	be collecte	d	4									
Note:	Large equip	oment above	is: Ductwo	rk (2000ft	3) and HEP	A banks (2	500ft3).					
				-		-	-					

Floor remediation is concrete bases.

Ceiling remediation is posted fixed contamination area on ceiling.

Building	245	Roc	om or Area	C Wing			
=9		1					
Use							
Radionuclides, Ex	tont of Con	tamination		Roll-Up			
Area Classification		tanniation	i	IXOII-OP			
# Floors above Ba							
# Floors below Ro							
			%	ft2			
			needing	needing			
	Total	Class 1	Remed.	Remed.	Class 2	Class 3	
Floor Area, ft ²	1200					1200	
Wall Area, ft ²	3135					3135	
Ceiling Area, ft ²	1200					1200	
<u> </u>							1
			Fraction				ft ³
Componer	nts	Total ft3	RW	ft ³ DAW	ft ³ Metal	ft ³ Lead	Concrete
Glove Boxes							
Hoods							
Benches/Tables/De	esks	800					
Casework/Cabinet	s	800					
Reefers, Large Equ	uipment						
Misc. Equip./Labw	are						
Hot Cells							
Storage Tanks							
Other							
Sinks							
Drains							
Ventilation Drops							
Dan tara	N - 1		l		13		_
Drains	No.		Inch Dia.		Total ft ³		
Ventilation Drops	No.		Inch Dia.		Total ft ³		
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical
Characterize		•					
Equip. Release							
Pack/Load waste							
Decon/Remed.							
Final Survey							
# Lab Samples to I	be collecte	d					

April 2023

Building	245	Roc	om or Area	C003			
Hea	Coo Count	ing Davidor	emont of rac	li acativa da	s standards	and calibrat	tions
USE	Gas Counti	ng Develop	omeni oi rau	loactive gas	<u>s stanuarus</u>	and calibrat	แดกร
			•				
Radionuclides, Ex			1	Gamma			
Area Classification		3	_				
# Floors above Ba							
# Floors below Ro	of		0/	42	т	1	1
		ĺ	% needing	ft2 needing	!		
	Total	Class 1	Remed.	Remed.	Class 2	Class 3	
Floor Area, ft ²	150	Olass I	Remod.	Nonioa.	Olass E	150	
Wall Area, ft ²	392		 		 	392	
Ceiling Area, ft ²	150		 			150	
Jonn. 3 / 11 02, 11			<u> </u>		<u> </u>		i.
			Fraction	Fraction	Fraction	Fraction	Fraction
Componer	nts	Total ft3	RW	DAW	Metal	Lead	Concrete
Glove Boxes							
Hoods							
Benches/Tables/D		100	ļ		<u> </u>	<u> </u>	
Casework/Cabinet		100		<u> </u>	<u> </u>	<u> </u>	
Reefers, Large Equ			ļ!	<u> </u>			
Misc. Equip./Labw Hot Cells	are		 		<u> </u>	 	
Storage Tanks			 				
Other							
Sinks							
Drains							
Ventilation Drops							
			7		٦ ،		I
Drains	No.		Inch Dia.		Total ft ³		
Ventilation Drops	No.		Inch Dia.	<u> </u>	Total ft ³		I
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical
Characterize							
Equip. Release							
Pack/Load waste							
Decon/Remed.							
Final Survey				<u> </u>			
# Lab Samples to I	be collecte	d		l			

Note: Room assumed to have 200 ft³ of Benches and Casework for Decom. Plan

Building	245	Roc	om or Area	C005				
		•						
	Low Level	_						
Use	Beta source	e measuren	nents using	gas-flow pr	oportional o	counters		
Radionuclides, Ex	tant of Can	tamination	. 1	Gamma				
Area Classification		3	<u>'</u>	Gairiiria				
# Floors above Ba								
# Floors below Ro	of							
			%	ft2				
			needing	needing				
	Total	Class 1	Remed.	Remed.	Class 2	Class 3		
Floor Area, ft ²	150					150		
Wall Area, ft ²	392					392		
Ceiling Area, ft ²	150					150		
				F	F		-	
Commonor	-4-	Total #2	Fraction RW	Fraction	Fraction	Fraction	Fraction	
Componer Glove Boxes	าเร	Total ft3	IX VV	DAW	Metal	Lead	Concrete	
Hoods								
Benches/Tables/D	esks	100						
Casework/Cabinet		100						
Reefers, Large Equ								
Misc. Equip./Labw								
Hot Cells								
Storage Tanks								
Other								
Sinks								
Drains								
Ventilation Drops								
Drains	No.		Inch Dia.		Total ft ³			
Ventilation Drops	No.		Inch Dia.		Total ft ³			
ventilation Drops	NO.		lilicii bia.] i Otai it		_	
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical	
Characterize								
Equip. Release								
Pack/Load waste								
Decon/Remed.								
Final Survey								
# Lab Samples to I	be collecte	d						

Note: Room assumed to have 200 ft³ of Benches and Casework for Decom. Plan

Building	245	Roo	om or Area	C007			
	Low Level	-	•	4_			
Use	Aipna Spec	споѕсору п	easuremen	เร			
Radionuclides, Ex	tent of Con	ıtaminatior	1	Gamma			
Area Classification		3]				
# Floors above Ba	sement						
# Floors below Ro	of						•
			%	ft2			
			needing	needing			
2	Total	Class 1	Remed.	Remed.	Class 2	Class 3	
Floor Area, ft ²	150					150	
Wall Area, ft ²	392					392	
Ceiling Area, ft ²	150					150	
			Fraction	Fraction	Fraction	Fraction	Fraction
Componer	nte	Total ft3	RW	DAW	Metal	Lead	Concrete
Glove Boxes	ito	10tai ita	1744	DAW	Wietai	Leau	Concrete
Hoods							
Benches/Tables/D	esks	100					
Casework/Cabinet	S	100					
Reefers, Large Equ	uipment						
Misc. Equip./Labw	are						
Hot Cells							
Storage Tanks							
Other							
Sinks							
Drains Ventilation Drops							
ventilation brops							
Drains	No.		Inch Dia.		Total ft ³		
Ventilation Drops	No.		Inch Dia.		Total ft ³		
Ventuation Brops	110.		illon Dia.] i Otai it		
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical
Characterize							
Equip. Release							
Pack/Load waste							
Decon/Remed.							
Final Survey							
# Lab Samples to I	be collecte	d					

Building	245	Roc	om or Area	C009			
	A . 45 . 16 . B.4 .						
		asurements	s s using a Na	ul(ti) detecto)re		
036	Source me	asurementa	using a ma	I(II) GEIEGIO	15		
Radionuclides, Ext		ıtaminatior	1	Gamma			
Area Classification	n	3]				
# Floors above Bas							
# Floors below Ro	of		0/	- 40	т	1	I
		 	% needing	ft2			
	Total	Class 1	Remed.	needing Remed.	Class 2	Class 3	
Floor Area, ft ²	150	Olass I	1 toniou.	Ttomou.	Olass E	150	
Wall Area, ft ²	392		 		 	392	
Ceiling Area, ft ²	150		 		 	150	
				1			•
			Fraction	Fraction	Fraction	Fraction	Fraction
Componer	nts	Total ft3	RW	DAW	Metal	Lead	Concrete
Glove Boxes					'		
Hoods	_		ļ		<u> </u>		
Benches/Tables/De		100			<u> </u> '		
Casework/Cabinets		100	<u> </u>	<u> </u>	<u>'</u>		
Reefers, Large Equip./Labwa		 	 	 	<u> </u>		
Hot Cells	are		 		 		
Storage Tanks			 				
Other			 		 		
Sinks							
Drains							
Ventilation Drops							
_			1		12		I
Drains	No.		Inch Dia.		Total ft ³		
Ventilation Drops	No.		Inch Dia.		Total ft ³		I
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical
Characterize							
Equip. Release							
Pack/Load waste					<u>'</u>		
Decon/Remed.							
Final Survey							
# Lab Samples to I	be collecte	d		l			

Building	245 Room or Area C011								
	Low Level (Measurement determine)	ent of radio	active sourc	es with gar	nmy ray spe	ectrometers	to		
Radionuclides, Ext		tamination	<u>į</u>	Gamma					
Area Classification		3							
# Floors above Bas									
# Floors below Ro	of		0/	610	Ţ	1			
			%	ft2					
			needing	needing					
	Total	Class 1	Remed.	Remed.	Class 2	Class 3			
Floor Area, ft ²	150					150			
Wall Area, ft ²	392					392			
Ceiling Area, ft ²	150					150			
Componer	nts	Total ft3	Fraction RW	Fraction DAW	Fraction Metal	Fraction Lead	Fraction Concrete		
Glove Boxes									
Hoods									
Benches/Tables/De		100							
Casework/Cabinets		100							
Reefers, Large Equ									
Misc. Equip./Labwa	are								
Hot Cells									
Storage Tanks									
Other									
Sinks									
Drains									
Ventilation Drops								Į.	
Drains	No.		Inch Dia.		Total ft ³				
Ventilation Drops	No.		Inch Dia.		Total ft ³				
ventilation brops	NO.		Jilich Dia.] i Otai it				
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical		
Characterize		-							
Equip. Release									
Pack/Load waste									
Decon/Remed.									
Final Survey									
# Lab Samples to I	be collecte	d							

Building	245	Roo	om or Area	C013			
•	<u> </u>						
	Microcalori						
Use	Process so	urces for T	ES DES me	asurement	S		
Dedice States For		4	_	0			1
Radionuclides, Ex]]	Gamma			
Area Classification		3	1				
# Floors above Ba			1				
# Floors below Ro	Of		0/	40	1	1	1
			%	ft2			
	T - 4 - 1	014	needing	needing	010	010	
	Total	Class 1	Remed.	Remed.	Class 2	Class 3	
Floor Area, ft ²	150					150	
Wall Area, ft ²	392					392	
Ceiling Area, ft ²	150					150	
			Fraction	Fraction	Fraction	Fraction	Fraction
Componer	nts	Total ft3	RW	DAW	Metal	Lead	Concrete
Glove Boxes							
Hoods							
Benches/Tables/Des/Des/Des/Des/Des/Des/Des/Des/Des/D	esks	100					
Casework/Cabinet	s	100					
Reefers, Large Equ	uipment						
Misc. Equip./Labw	are						
Hot Cells							
Storage Tanks							
Other							
Sinks							
Drains							
Ventilation Drops							
		_	_			_	
Drains	No.		Inch Dia.		Total ft ³		
Ventilation Drops	No.		Inch Dia.		Total ft ³		
•			•		-		
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical
Characterize							
Equip. Release							
Pack/Load waste							
Decon/Remed.							
Final Survey							
# Lab Samples to I	be collecte	d					

Building	245	Roc	om or Area	C015			
		ay Spectron	•				
Use	Gamma-Ra	ay spectrom	netry measu	rements			
Radionuclides, Ex	tent of Con	ntaminatior	, !	Gamma			
Area Classification		3	i '	Carrina			
# Floors above Ba			1				
# Floors below Ro			†				
	_		%	ft2			
			needing	needing			
	Total	Class 1	Remed.	Remed.	Class 2	Class 3	
Floor Area, ft ²	150					150	
Wall Area, ft ²	392					392	
Ceiling Area, ft ²	150					150	
							•
_			Fraction	Fraction	Fraction	Fraction	Fraction
Componer	nts	Total ft3	RW	DAW	Metal	Lead	Concrete
Glove Boxes							
Hoods Benches/Tables/December 1	aaka	100					
Casework/Cabinet		100					
Reefers, Large Equ	_	100					
Misc. Equip./Labw	•						
Hot Cells	u. 0						
Storage Tanks							
Other							
Sinks							
Drains							
Ventilation Drops							
			1		1 3		İ
Drains	No.		Inch Dia.		Total ft ³		
Ventilation Drops	No.		Inch Dia.		Total ft ³		
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical
Characterize							
Equip. Release							
Pack/Load waste							
Decon/Remed.							
Final Survey							
# Lab Samples to I	be collecte	d]			

Building	245	Roc	om or Area	C019			
	O On	4 4	O Ota				
llea	Storage of	•	Source Sto	rage			
USE	Storage or	Tauloactive	Sources				
Radionuclides, Ex	tent of Con	taminatior	1	Gamma			
Area Classification		3] .				
# Floors above Ba]				
# Floors below Ro	of		2,	21.0	,	•	
			%	ft2			
	T - 4-1	014	needing	needing	01	01	
=: A £42	Total	Class 1	Remed.	Remed.	Class 2	Class 3	
Floor Area, ft ²	150				 	150	
Wall Area, ft ²	392				<u> </u>	392	
Ceiling Area, ft ²	150					150	
			Fraction	Fraction	Fraction	Fraction	Fraction
Componer	nts	Total ft3	RW	DAW	Metal	Lead	Concrete
Glove Boxes		Total Ito		DAII	Motor		Control
Hoods							
Benches/Tables/D	esks	100					
Casework/Cabinet	ıs	100					
Reefers, Large Eq	uipment						
Misc. Equip./Labw	are are						
Hot Cells							
Storage Tanks					+	+	
Storage Tanks Other							
Storage Tanks Other Sinks							
Storage Tanks Other Sinks Drains							
Storage Tanks Other Sinks							
Storage Tanks Other Sinks Drains Ventilation Drops	No.		Inch Dia.		Total ft ³		
Storage Tanks Other Sinks Drains Ventilation Drops Drains	No. No		Inch Dia.		Total ft ³		
Storage Tanks Other Sinks Drains Ventilation Drops	No. No.		Inch Dia.		Total ft ³		
Storage Tanks Other Sinks Drains Ventilation Drops Drains		Supvsr	-	Shipper		Unskilled	Clerical
Storage Tanks Other Sinks Drains Ventilation Drops Drains Ventilation Drops	No.	Supvsr	Inch Dia.	Shipper	Total ft ³	Unskilled	Clerical
Storage Tanks Other Sinks Drains Ventilation Drops Drains Ventilation Drops Person-hours Characterize Equip. Release	No.	Supvsr	Inch Dia.	Shipper	Total ft ³	Unskilled	Clerical
Storage Tanks Other Sinks Drains Ventilation Drops Drains Ventilation Drops Person-hours Characterize Equip. Release Pack/Load waste	No.	Supvsr	Inch Dia.	Shipper	Total ft ³	Unskilled	Clerical
Storage Tanks Other Sinks Drains Ventilation Drops Drains Ventilation Drops Person-hours Characterize Equip. Release	No.	Supvsr	Inch Dia.	Shipper	Total ft ³	Unskilled	Clerical

Building	245	Roo	om or Area	F & G Wing	g Roll-up		
Use							
Radionuclides, Ex		amination	, ,				
Area Classification			4				
# Floors above Ba			4				
# Floors below Ro	of		0/	40	Т	 	ľ
			%	ft2			
	Total	01 4	needing	needing	01 0	01 0	
F1 A 6,2	Total	Class 1	Remed.	Remed.	Class 2	Class 3	
Floor Area, ft ²	5290	1800		90	4620	440	
Wall Area, ft ²	5725	2380		119	3263	1007	
Ceiling Area, ft ²	5290	1800			4620	440	
			Fraction	_	_	_	ft ³
Compone	ents	Total ft3	RW	ft ³ DAW	ft ³ Metal	ft ³ Lead	Concrete
Glove Boxes							
Hoods							
Benches/Tables/D		160					
Casework/Cabinet		50					
Reefers, Large Equ	-	15					
Misc. Equip./Labw	are	150					
Hot Cells							
Storage Tanks							
Other		20					
Sinks							
Drains							
Ventilation Drops							
	i		n		1 2		İ
Drains	No.		Inch Dia.		Total ft ³		
Ventilation Drops	No.		Inch Dia.		Total ft ³		
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical
Characterize	9	18	36				9
Equip. Release	7	14	28				7
Pack/Load waste	2	4	8	4	8	8	2
Decon/Remed.	30	60	120	24	120	120	30
Final Survey	7	14	28		1		7
# Lab Samples to I	be collected		16				

	245	RO	om or Area	G104				
	G-104, Horiz	ontal Smal	rootook Simu	ulator (This	room ourrou	undo C 105)		
Use	Accelerator S		ESIACK SIIII	liator (TIIIS	TOOTH SUITOL	ilius G-103)		
300	7 10001014101	rorago						
Radionuclides, Ex	tent of Conta	mination	_	see G	G-105 locate	d inside this	room	
Area Classificatio	n	2						
# Floors above Ba	sement	2						
# Floors below Ro								
			%	ft2				
			needing	needing				
	Total	Class 1	Remed.	Remed.	Class 2	Class 3	ī	
Floor Area, ft ²	4620				4620		<u>'</u>	
Wall Area, ft ²	3263				3263		ı	
Ceiling Area, ft ²	4620				4620			
			Fue a4! a =	Fue e4! = ==	Fue c4! c	Fue e4! = =	Fue e4! e ==	
Camanan	onto	Total ft3	Fraction RW	Fraction	Fraction	Fraction	Fraction	
Compone Glove Boxes	ents	i otai its	RVV	DAW	Metal	Lead	Concrete	
Hoods								
noous Benches/Tables/D	loeke	150						
Casework/Cabinet		50						
Reefers, Large Eq		- 00						
Misc. Equip./Labw	-	150						
Hot Cells		100						
Storage Tanks								
Other								
Sinks								
Drains								
Ventilation Drops								
			7		1 ^		1	
Drains	No.		Inch Dia.		Total ft ³			
Ventilation Drops	No.		Inch Dia.		Total ft ³			
				01.		I	0	
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical	
Characterize	4	8	16				4	
Equip. Release	4	8	16				4	
Pack/Load waste								
Decon/Remed.	2	Λ	0				2	
Final Survey	2	4	8				2	
# Lab Samples to	be collected		4					

Building	245	Roo	om or Area	G105			
	11						
llea	Horizontal sn G-105 has kr			ear Accele	rator		
USE	G-105 Has Ki	IOWII activa	IIIOII IIOIII IIII	icai Acceie	iaioi.		
Radionuclides, Ex	tent of Conta	amination		activa	tion product	for concrete	e/metal
Area Classification		1]				
# Floors above Ba	sement	2					
# Floors below Ro	of	1					
			%	ft2			
			needing	needing			
	Total	Class 1	Remed.	Remed.	Class 2	Class 3	
Floor Area, ft ²	230	1800	0.05	90			
Wall Area, ft ²	1456	2380	0.05	119			,
Ceiling Area, ft ²	230	1800					
Compone	ents	Total ft3	Fraction RW	Fraction DAW	Fraction Metal	Fraction Lead	Fraction Concrete
Glove Boxes							
Hoods							
Benches/Tables/D		10	1		1		
Casework/Cabinet							
Reefers, Large Eq		15	1		1		
Misc. Equip./Labw	are						
Hot Cells					<u> </u>		
Storage Tanks Other		00	4			4	
Sinks		20	1			1	
Drains							
Ventilation Drops							
vendiadon Drops					<u> </u>		
Drains	No.		Inch Dia.		Total ft ³		
Ventilation Drops	No.		Inch Dia.		Total ft ³		
Tonalation Drops	110.		JO Dia.] . 0		
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical
Person-hours Characterize	4	8	16				4
Equip. Release	2	4	8				2
Pack/Load waste	2	4	8	4	8	8	2
Decon/Remed.	30	60	120	24	120	120	30
Final Survey	4	8	16				4
# Lab Samples to be collected 12							

Building	245	Roo	om or Area	F101			
	0 00 0 1						
Use	Co-60- Pool	Irradiator, C	Cs-137 seale	ed			
Radionuclides, Ex	tent of Conta	amination			Co-60 Cs-	137 sealed	
Area Classification		3]		00 00,00	101 000100	
# Floors above Ba	sement	2	1				
# Floors below Ro	of	1	1				
			%	ft2			
			needing	needing			
	Total	Class 1	Remed.	Remed.	Class 2	Class 3	
Floor Area, ft ²	440					440	
Wall Area, ft ²	1007					1007	
Ceiling Area, ft ²	440					440	
					-	-	•
			Fraction	Fraction	Fraction	Fraction	Fraction
Compone	nts	Total ft3	RW	DAW	Metal	Lead	Concrete
Glove Boxes							
Hoods							
Benches/Tables/De	esks						
Casework/Cabinet	s						
Reefers, Large Equ	uipment						
Misc. Equip./Labw	are						
Hot Cells							
Storage Tanks							
Other							
Sinks							
Drains							
Ventilation Drops							
	ı		7		1 ^		Ī
Drains	No.		Inch Dia.		Total ft ³		
Ventilation Drops	No.		Inch Dia.		Total ft ³		
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical
Characterize	1	2	4	- Cimppoi	- Citillou	Jiiokiiiou	1
Equip. Release	1	2	4				1
Pack/Load waste	•	<u> </u>	<u> </u>				· ·
Decon/Remed.							
Final Survey	1	2	4				1
j					-	-	
# Lab Samples to I	be collected						

Building 245 Room or Area H Wing										
llea	N/A - Rollup	`								
USE	IN/A - Nollup	,								
Radionuclides, Ex	tent of Con	tamination								
Area Classification]							
# Floors above Ba	sement		1							
# Floors below Ro	of									
			%	ft2						
			needing	needing						
	Total	Class 1	Remed.	Remed.	Class 2	Class 3				
Floor Area, ft ²	30368	17572		597	3869	8680.725				
Wall Area, ft ²	41502	19676			7840	13484				
Ceiling Area, ft ²	30368	17572			3869	8680.725				
<u> </u>										
			Fraction				ft³			
Componer	nts	Total ft3	RW	ft ³ DAW	ft ³ Metal	ft ³ Lead	Concrete			
Glove Boxes		175								
Hoods		2005								
Benches/Tables/De	esks	2100								
Casework/Cabinet	s	1700								
Reefers, Large Equ	uipment	200								
Misc. Equip./Labw	are	220								
Hot Cells		31								
Storage Tanks		1334.6								
Other		80								
Sinks		16								
Drains		62.2								
Ventilation Drops		4300.0								
Drains	No.		Inch Dia.		Total ft ³					
Ventilation Drops	No.		Inch Dia.		Total ft ³					
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical			
Characterize	103	206	412				103			
Equip. Release	173	346	692		120	120	173			
Pack/Load waste	37	75	150	70	150	150	37			
Decon/Remed.	11	31	70	18	70	70	11			
Final Survey	89	178	356				89			
# Lab Samples to be collected 30										

Building	245	Roc	om or Area	H007-1			
		1		L			
Use	Gamma Irra	adiation Fac	cility, Calibra	ation of gam	ma-ray me	asuring instr	uments
Radionuclides, Ex	tont of Con	tamination	•				-
Area Classification		3	1				
# Floors above Ba		3	1				
# Floors below Ro			1				
# 1 loois below ito	01		%	ft2	1		
			needing	needing			
	Total	Class 1	Remed.	Remed.	Class 2	Class 3	
Floor Area, ft ²	730					730	
Wall Area, ft ²	865					865	
Ceiling Area, ft ²	730					730	
Johning Alou, It	, 00		<u> </u>	<u>l</u>	<u>I</u>	700	
			Fraction	Fraction	Fraction	Fraction	Fraction
Componei	nts	Total ft3	RW	DAW	Metal	Lead	Concrete
Glove Boxes			T				
Hoods			1				
Benches/Tables/D	esks		1				
Casework/Cabinet	s						
Reefers, Large Equ	uipment						
Misc. Equip./Labw	-						
Hot Cells							
Storage Tanks							
Other							
Sinks							
Drains							
Ventilation Drops							
	ı		-		1 .		
Drains	No.		Inch Dia.		Total ft ³		
Ventilation Drops	No.		Inch Dia.		Total ft ³		
Person-hours	Mar	Supver	HP Tech	Shipper	Skilled	Unskilled	Clerical
Characterize	Mgr 1	Supvsr 2	4	Silippei	Skilled	Uliskilleu	1
Equip. Release	1	2	4				1
Pack/Load waste	'		4				I
Decon/Remed.			 				
Final Survey	1	2	4				1
i iliai Sulvey	ı		<u> </u>	<u> </u>	<u> </u>		ſ
# Lab Samples to I	be collected	ť]			

Building	245	Roo	om or Area	H015			
llse	Beta Particl	e Room					
300	Bota i artioi	0 1100111					
Radionuclides, Ex	tent of Conf	tamination		Pm-147, K	r-85, Sr-90		
Area Classification		3	1	,	•		
# Floors above Ba	sement		1				
# Floors below Ro	of						
			%	ft2			
			needing	needing			
	Total	Class 1	Remed.	Remed.	Class 2	Class 3	
Floor Area, ft ²	378					378	
Wall Area, ft ²	930					930	
Ceiling Area, ft ²	378					378	
Componei	nts	Total ft3	Fraction RW	Fraction DAW	Fraction Metal	Fraction Lead	Fraction Concrete
Glove Boxes							
Hoods							
Benches/Tables/D	esks						
Casework/Cabinet	s						
Reefers, Large Equ	uipment						
Misc. Equip./Labw	-						
Hot Cells							
Storage Tanks							
Other							
Sinks							
Drains							
Ventilation Drops							
Drains	No.		Inch Dia.		Total ft ³		
			4		Total ft ³		
Ventilation Drops	No.		Inch Dia.		Jιοtaiπ		
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical
Characterize	1	2	4				1
Equip. Release	1	2	4				1
Pack/Load waste							
Decon/Remed.							
Final Survey	1	2	4				1
# Lab Samples to I	be collected	t					

Building	245	Roo	om or Area	H018			
Use	GR 420 Irra	diation Fac	ility, High D	ose Irradiat	ions		
Dadiamuskidaa Fu	44 6 0	4 ! 4!					1
Radionuclides, Ex			7				
		3					
# Floors above Ba							
# Floors below Ro	от		%	ft2		I	1
	Total	Class 4	needing	needing	Class 2	Class 2	
E1 A 6,2	Total	Class 1	Remed.	Remed.	Class 2	Class 3	
Floor Area, ft ²	246						
Wall Area, ft ²	502						
Ceiling Area, ft ²	246						
			Fraction	Fraction	Fraction	Fraction	Fraction
Componei	nte	Total ft3	RW	DAW	Metal	Lead	Concrete
Glove Boxes	1115	10tai its	T T T T T T T T T T T T T T T T T T T	DAW	Ivietai	Leau	Concrete
Hoods							
Benches/Tables/D	oeke						
Casework/Cabinet							
Reefers, Large Equ							
Misc. Equip./Labw							
Hot Cells	aic						
Storage Tanks							
Other							
Sinks							
Drains							
Ventilation Drops							
Tommanon Bropo						ı	
Drains	No.		Inch Dia.		Total ft ³		
Ventilation Drops	No.		Inch Dia.		Total ft ³		
ventilation brops	140.		Jilicii Dia.] i Otai it		ļ
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical
Characterize	1	2	4	- ' '			1
Equip. Release	1	2	4				1
Pack/Load waste							
Decon/Remed.							
Final Survey	1	2	4				1
# Lab Samples to I	be collected	d					

Building	245	Roc	om or Area	H031-1			
Use	Radioactive	Waste Tar	nk Room				
			•				
Radionuclides, Ex			, , , , , , , , , , , , , , , , , , ,				
Area Classification		1	-				
# Floors above Ba	,		-				
# Floors below Ro	OT		%	ft2			1
	1		needing	needing	!		1
	Total	Class 1	Remed.	Remed.	Class 2	Class 3	ĺ
Floor Area, ft ²	598	Ciass i	ivenieu.	Nemeu.	Class 2	598	ĺ
Wall Area, ft ²			 		 		
	1446		<u> </u>	 	<u> </u>	1446	
Ceiling Area, ft ²	598	<u> </u>				598	i .
			Fraction	Fraction	Fraction	Fraction	Fraction
Componei	nte	Total ft3	RW	DAW	Metal	Lead	Concrete
Glove Boxes	, its	TOtal Its	1744		IVICIAI	Leau	Concrete
Hoods			 		 	 	
Benches/Tables/D	esks		 		 		
Casework/Cabinet	rs		+		 		
Reefers, Large Eq			+		 		
Misc. Equip./Labw							
Hot Cells							
Storage Tanks		1334.6	0.2		1		
Other							
Sinks							
Drains							
Ventilation Drops							
	-						
Drains	No.		Inch Dia.		Total ft ³		
Ventilation Drops	No.		Inch Dia.		Total ft ³		ĺ
·	Þ		<u>.</u>				
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical
Characterize	1	2	4	<u> </u>	<u> </u>		1
Equip. Release	1	2	4	<u> </u>	<u> </u>	!	1
Pack/Load waste	2	5	10	10	10	10	2
Decon/Remed.	7	15	30	10	30	30	7
Final Survey	1	2	4				1
# Lab Samples to I	be collected	i	2]			

Building	245	Roc	om or Area	H104			
		1					
Use	Health Phys	sics Sample	Preparation	n Lab. Prod	cessing and	preparation	ı of RAM
Radionuclides, Ex	tent of Con	tamination	ı 1		- 	- 	
Area Classification		1	1				
# Floors above Ba							
# Floors below Ro							
			%	ft2			1
	1	ĺ	needing	needing	!	'	1
	Total	Class 1	Remed.	Remed.	Class 2	Class 3]
Floor Area, ft ²	511	511			<u> </u>		
Wall Area, ft ²	723	723			!		1
Ceiling Area, ft ²	511	511		<u> </u>]
Componer	nts	Total ft3	Fraction RW	Fraction DAW	Fraction Metal	Fraction Lead	Fraction Concrete
Glove Boxes	ļ.						
Hoods	ļ.						
Benches/Tables/De	esks						
Casework/Cabinet	:s						
Reefers, Large Equ							
Misc. Equip./Labw	are						
Hot Cells	ļ.						
Storage Tanks	!						
Other	!		<u> </u>	<u> </u>	<u>'</u>	'	
Sinks	!		<u> </u>	<u> </u>	<u> </u>	<u> </u>	igspace
Drains	ļ.		<u> </u> '		<u> </u>	<u> </u>	
Ventilation Drops	!			<u> </u>			
Drains	No.		Inch Dia.		Total ft ³		1
Ventilation Drops				 	Total ft ³	<u> </u>	1
venilialion props	No.		Inch Dia.		Totalit		1
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical
Characterize	4	8	16				4
Equip. Release	8	16	32				8
Pack/Load waste							
Decon/Remed.							
Final Survey	4	8	16				4
# Lab Samples to I	be collected	t	1]			

Building	245	Roo	om or Area	H108-1			
Haa	IDR Brachy	thoronylah	. Evnerime	nt Calibrat	ion of high	daaa rata br	ach course
036	IDN BIACITY	шегару сас	- Experime	ili, Calibrat	lion of high (JUSE TALE DI	acii. Souice
Radionuclides, Ex	tent of Con	tamination					
Area Classification		3	1				
# Floors above Ba	sement						
# Floors below Ro	of						
			%	ft2			
			needing	needing			
	Total	Class 1	Remed.	Remed.	Class 2	Class 3	
Floor Area, ft ²	459					459	
Wall Area, ft ²	686					686	
Ceiling Area, ft ²	459					459	
Compone	nts	Total ft3	Fraction RW	Fraction DAW	Fraction Metal	Fraction Lead	Fraction Concrete
Glove Boxes		- otal ito	1		liiotai		001101010
Hoods							
Benches/Tables/D	esks						
Casework/Cabinet							
Reefers, Large Eq							
Misc. Equip./Labw							
Hot Cells							
Storage Tanks							
Other							
Sinks							
Drains							
Ventilation Drops							
Duning	NI -		lmah Dia		Total ft ³		1
Drains	No.		Inch Dia.				
Ventilation Drops	No.		Inch Dia.		Total ft ³		
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical
Characterize	1	2	4				1
Equip. Release	1	2	4				1
Pack/Load waste							
Decon/Remed.							
Final Survey	1	2	4				1
# Lab Samples to I	be collected	d]			

Building	245	Roo	om or Area	H108-2			
Use	HDR S	Storage Clo	set, Source	storage pri	or to use in	experimenta	al side
Radionuclides, Ex	tent of Con	tamination					
Area Classification		3	1				
# Floors above Ba			1				
# Floors below Ro			-				
# 1 10013 BC10W 100	<u> </u>		%	ft2	I	I]
			needing	needing			
	Total	Class 1	Remed.	Remed.	Class 2	Class 3	
Floor Area, ft ²	20					20	
Wall Area, ft ²	143					143	
Ceiling Area, ft ²	20					20	
			Fraction	Fraction	Fraction	Fraction	Fraction
Componei	nts	Total ft3	RW	DAW	Metal	Lead	Concrete
Glove Boxes							
Hoods							
Benches/Tables/D							
Casework/Cabinet	S						
Reefers, Large Equ	uipment						
Misc. Equip./Labw	are						
Hot Cells							
Storage Tanks							
Other							
Sinks							
Drains							
Ventilation Drops							
Drains	No.		Inch Dia.		Total ft ³]
Ventilation Drops			Inch Dia.		Total ft ³		
ventilation Drops	No.		Jinch Dia.		Jιοtaiπ		
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical
Characterize	1	2	4				1
Equip. Release	1	2	4				1
Pack/Load waste							
Decon/Remed.							
Final Survey	1	2	4			_	1
# Lab Samples to	be collected	d					

Building	245	Roc	om or Area	H113			
		1					
Use	Source Rec	eiving Facil	lity for manir	pulation of I	arge items a	and incomin	ig sample c
Radionuclides, Ex	tent of Con	tamination	r I				
Area Classification		3	1 '	<u> </u>			
# Floors above Ba			1				
# Floors below Ro			1				
			%	ft2			1
		ĺ	needing	needing	!	!	1
	Total	Class 1	Remed.	Remed.	Class 2	Class 3	<u> </u>
Floor Area, ft ²	629					629	j
Wall Area, ft ²	803	<u> </u>	<u> </u>	Γ		803	1
Ceiling Area, ft ²	629					629	<u> </u>
			Fraction	Fraction	Fraction	Fraction	Fraction
Componer	nts	Total ft3	RW	DAW	Metal	Lead	Concrete
Glove Boxes	ľ	<u> </u>	<u> </u>	<u> </u>	<u> </u>	!	
Hoods		<u> </u>	<u> </u>	<u> </u>	<u> </u>	!	
Benches/Tables/D		<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
Casework/Cabinet		<u> </u>	<u> </u>	<u> </u>	<u> </u>	!	
Reefers, Large Equ		<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u> '	
Misc. Equip./Labw	are	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u> '	
Hot Cells	ľ	ļ			<u> </u>	<u> </u> '	
Storage Tanks	ľ	<u> </u>		 	<u> </u>	<u> </u>	
Other	ľ	<u> </u>		<u> </u>	<u> </u>	ļ!	
Sinks	ľ	<u> </u>		 	<u> </u>	<u> </u>	
Drains	ľ	<u> </u>		 	<u> </u>	<u> </u>	
Ventilation Drops		<u> </u>		<u> </u>			
Drains	No.		Inch Dia.		Total ft ³		1
Ventilation Drops	No.	 	Inch Dia.	 	Total ft ³		1
Ventuation Drops	140.	<u> </u>	Jilicii Dia.	<u> </u>	I Otal It		1
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical
Characterize	1	2	4				1
Equip. Release	1	2	4				1
Pack/Load waste							
Decon/Remed.							
Final Survey	1	2	4				1
# Lab Samples to I	be collected	d]			

Building	245	Roc	om or Area	H113-1			
llea	Temp. Holding	. Vault Temp	storage location	on for incoming	and outgoing	PAM package	ne e
USE	remp. Holding	yauit. Temp.	storage locatio	in for incoming	and odigoing	TANI Package	5
Radionuclides, Ex	tent of Con	tamination					
Area Classification		3					
# Floors above Ba	sement						
# Floors below Ro	of						
			%	ft2		-	
			needing	needing			
	Total	Class 1	Remed.	Remed.	Class 2	Class 3	
Floor Area, ft ²	128					128	
Wall Area, ft ²	362					362	
Ceiling Area, ft ²	128					128	
20	-4-	T-4-1 #2	Fraction	Fraction	Fraction	Fraction	Fraction
Componer	nts	Total ft3	RW	DAW	Metal	Lead	Concrete
Glove Boxes				 	<u> </u>	<u> </u>	
Hoods				 	<u> </u>	<u> </u>	
Benches/Tables/D Casework/Cabinet				 	1		
	_			 			
Reefers, Large Equ	-				<u> </u>		
Misc. Equip./Labw Hot Cells	are			 	<u> </u>		
Storage Tanks					 		
Other							
Sinks				 	 		
Drains							
Ventilation Drops							
Tommation Bropo			<u> </u>	<u> </u>			
Drains	No.		Inch Dia.		Total ft ³	1	1
Ventilation Drops	No.		Inch Dia.		Total ft ³		
			1]		l
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical
Characterize	1	2	4				1
Equip. Release	1	2	4				1
Pack/Load waste							
Decon/Remed.							
Final Survey	1	2	4				1
# Lab Samples to	be collected	t]			

Building	245	Roo	om or Area	113-2			
Use			Source S	Storage - Hi	gh Level		
Radionuclides, Ex	tent of Con	tamination	1				
Area Classification		3]				
# Floors above Ba	sement		1				
# Floors below Ro	of		1				
			%	ft2			
			needing	needing			
	Total	Class 1	Remed.	Remed.	Class 2	Class 3	
Floor Area, ft ²	459					459	
Wall Area, ft ²	686					686	
Ceiling Area, ft ²	459					459	
			Fraction	Fraction	Fraction	Fraction	Fraction
Compone	nts	Total ft3	RW	DAW	Metal	Lead	Concrete
Glove Boxes							
Hoods							
Benches/Tables/D							
Casework/Cabinet	-						
Reefers, Large Eq	•						
Misc. Equip./Labw	are						
Hot Cells							
Storage Tanks							
Other							
Sinks							
Drains							
Ventilation Drops							
Draina	No.		Inch Dia.		Total ft ³		
Drains			4				
ventilation Drops	NO.		Jinch Dia.		j i otai π		
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical
Characterize	1	2	4				1
Equip. Release	1	2	4				1
Pack/Load waste							
Decon/Remed.							
Final Survey	1	2	4				1
Person-hours Characterize Equip. Release Pack/Load waste	Mgr 1 1 1	2 2	Inch Dia. HP Tech 4 4	Shipper	Total ft ³	Unskilled	1

Building	245	Ro	om or Area	H113-3			
Use			Source S	Storage - Lo	ow Level		
Radionuclides, Ex	tent of Con	tamination	ı				
Area Classification		3	1				
# Floors above Ba			1				
# Floors below Ro			1				
# 1 10013 Delow INO	<u> </u>		%	ft2			1
			needing	needing			
	Total	Class 1	Remed.	Remed.	Class 2	Class 3	
Elear Area ft ²		Class I	Reilleu.	Keilleu.	Class 2		
Floor Area, ft ²	326					326	
Wall Area, ft ²	578		ļ			578	
Ceiling Area, ft ²	326					326	
			F	F	F	F	F
			Fraction	Fraction	Fraction	Fraction	Fraction
Componer	nts	Total ft3	RW	DAW	Metal	Lead	Concrete
Glove Boxes							
Hoods	_						
Benches/Tables/D							
Casework/Cabinet							
Reefers, Large Eq							
Misc. Equip./Labw	are						
Hot Cells							
Storage Tanks							
Other							
Sinks							
Drains							
Ventilation Drops							
	i		٦		1 2		Ī
Drains	No.		Inch Dia.		Total ft ³		
Ventilation Drops	No.		Inch Dia.		Total ft ³		
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical
Characterize	1	2	4				1
Equip. Release	1	2	4				1
Pack/Load waste							
Decon/Remed.							
Final Survey	1	2	4				1
# Lab Samples to	be collected	d]			

Building	245	Ro	om or Area	H113-4			
Use	Source	e Receiving	and Proces	ssing of inco	oming and o	utgoing pac	kages
Radionuclides, Ex	tent of Con	tamination	ı				
Area Classification		3	1				
# Floors above Ba	sement		1				
# Floors below Ro			1				
			%	ft2			
			needing	needing			
	Total	Class 1	Remed.	Remed.	Class 2	Class 3	
Floor Area, ft ²	280					280	
Wall Area, ft ²	690					690	
Ceiling Area, ft ²	280					280	
							•
			Fraction	Fraction	Fraction	Fraction	Fraction
Componer	nts	Total ft3	RW	DAW	Metal	Lead	Concrete
Glove Boxes							
Hoods							
Benches/Tables/D	esks						
Casework/Cabinet	s						
Reefers, Large Eq	uipment						
Misc. Equip./Labw	are						
Hot Cells							
Storage Tanks							
Other							
Sinks							
Drains							
Ventilation Drops							
_			_		_		
Drains	No.		Inch Dia.		Total ft ³		
Ventilation Drops	No.		Inch Dia.		Total ft ³		
	I	_	T			I	<u> </u>
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical
Characterize	1	2	4				1
Equip. Release	1	2	4				1
Pack/Load waste							
Decon/Remed.	4		4				
Final Survey	1	2	4				1
# Lab Samples to	be collected	t					

Building	245	Roo	om or Area	H115 Suite	9				
	H115 Calibi	ration of lov	v dose brack	nytherany s	OUTCAS				
	H115-1 bra					m measurei	ments		
J36	11110-1 bla	опушногару	capo occus	our unu i ii	So special	iii iiioasaici	1101110		
Radionuclides, Ex	tent of Con	tamination							
Area Classification		3	1						
# Floors above Ba									
# Floors below Ro			1						
			%	ft2					
			needing	needing					
	Total	Class 1	Remed.	Remed.	Class 2	Class 3			
Floor Area, ft ²	1049					1049			
Wall Area, ft ²	1884					1884			
Ceiling Area, ft ²	1049					1049			
			-		-	-	-		
			Fraction	Fraction	Fraction	Fraction	Fraction		
Componei	nts	Total ft3	RW	DAW	Metal	Lead	Concrete		
Glove Boxes							ļ		
Hoods	_								
Benches/Tables/D									
Casework/Cabinet									
Reefers, Large Equ									
Misc. Equip./Labw	are								
Hot Cells									
Storage Tanks							ļ		
Other							<u> </u>		
Sinks									
Drains									
Ventilation Drops			<u> </u>			<u> </u>			
Drains	No.		Inch Dia.		Total ft ³		-		
Ventilation Drops	No.		Inch Dia.		Total ft ³				
ventuation brops	140.		Jilicii Dia.] i Otai it	<u> </u>			
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical		
Characterize	1	2	4				1		
Equip. Release	1	2	4				1		
Pack/Load waste									
Decon/Remed.									
Final Survey	1	2	4				1		
# Lab Samples to be collected									

Building	245	Roo	om or Area	H119-2			
llse	Detector Te	esting Stor	ane 2				T
030	Detector 1	Jaming Otore	age z				
Radionuclides, Ex	tent of Con	tamination					
Area Classification		3					
# Floors above Ba	sement						
# Floors below Ro	of						
			%	ft2			
			needing	needing			
	Total	Class 1	Remed.	Remed.	Class 2	Class 3	
Floor Area, ft ²	54					54	
Wall Area, ft ²	235					235	
Ceiling Area, ft ²	54					54	
							•
			Fraction	Fraction	Fraction	Fraction	Fraction
Compone	nts	Total ft3	RW	DAW	Metal	Lead	Concrete
Glove Boxes							
Hoods							
Benches/Tables/D							
Casework/Cabinet	_						
Reefers, Large Eq							
Misc. Equip./Labw	are						
Hot Cells							
Storage Tanks							
Other							
Sinks							
Drains							
Ventilation Drops							
			7]		I
Drains	No.		Inch Dia.		Total ft ³		
Ventilation Drops	No.		Inch Dia.		Total ft ³	<u> </u>	
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical
Characterize	1	2	4		1		1
Equip Polosco	1	2	4		1		1
Equip. Neiease					1		
Equip. Release Pack/Load waste							
Pack/Load waste Decon/Remed.							

Building	245	Roo	om or Area	H119-3			
Use			De	etector Testi	ing		
Radionuclides, Ext	tent of Con	tamination	ı				
Area Classification		3	1				
# Floors above Bas		<u> </u>	1				
# Floors below Ro		<u> </u>	1				
# 1 10010 5010.1. 1.2		 	%	ft2	T		
			needing	needing		'	
	Total	Class 1	Remed.	Remed.	Class 2	Class 3	
Floor Area, ft ²	2418					2418	ĺ
Wall Area, ft ²	1574					1574	
Ceiling Area, ft ²	2418					2418	
Componer	nts	Total ft3	Fraction RW	Fraction DAW	Fraction Metal	Fraction Lead	Fraction Concrete
Glove Boxes	110	1010			T		
Hoods	ļ.				 		
Benches/Tables/De	esks					 	
Casework/Cabinet					<u> </u>		
Reefers, Large Equ					 	 	
Misc. Equip./Labwa							
Hot Cells	1						
Storage Tanks	!						
Other	!					1	
Sinks	ļ.						
Drains	!						
Ventilation Drops	!						
			1		 ¬ ,		1
Drains	No.		Inch Dia.	<u></u>	Total ft ³		1
Ventilation Drops	No.		Inch Dia.		Total ft ³		i
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical
Characterize	1	2	4				1
Equip. Release	1	2	4				1
Pack/Load waste						'	
Decon/Remed.						'	
Final Survey	1	2	4	<u></u>			1
# Lab Samples to I	be collected	d]			

Building	245	Ro	om or Area	H120			
Danang	Health Phys						
llea	Measureme			ciii iab.			
036	IVICAGAICITIC	ALL OF TAME	ourripics				
Radionuclides, Ex	tent of Con	tamination	l				
Area Classification		1	1				
# Floors above Ba	sement		1				
# Floors below Ro	of		1				
			%	ft2			
			needing	needing			
	Total	Class 1	Remed.	Remed.	Class 2	Class 3	
Floor Area, ft ²	472	472					
Wall Area, ft ²	870	870					
Ceiling Area, ft ²	472	472					
	<u> </u>		-	·			
_			Fraction	Fraction	Fraction	Fraction	Fraction
Compone	nts	Total ft3	RW	DAW	Metal	Lead	Concrete
Glove Boxes							
Hoods	_						
Benches/Tables/D							
Casework/Cabinet							
Reefers, Large Eq	-						
Misc. Equip./Labw	are						
Hot Cells							
Storage Tanks							
Other			ļ				
Sinks			ļ			ļ	
Drains							
Ventilation Drops							ļ
Drains	No.		Inch Dia.		Total ft ³		
Ventilation Drops	No.		Inch Dia.		Total ft ³		
ventuation brops	140.		Jilicii Dia.	<u> </u>] i Otal It		I
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical
Characterize	4	8	16				4
Equip. Release	8	16	32				8
Pack/Load waste							
Decon/Remed.							
Final Survey	4	8	16				4
J				_			
# Lab Samples to	be collected	k	1				

Building	245	Roc	om or Area	H204				
				1				
	Medium leve	el chemical	general					
	Source prep		•	al operation	ıs			
'								
			ı					
Radionuclides, Ex	tent of Conf	tamination	ı					
Area Classification	n [1	1					
# Floors above Ba	sement	1	1					
# Floors below Ro	of		1				_	
		,	%	ft2		1		
	1		needing	needing		'		
	Total	Class 1	Remed.	Remed.	Class 2	Class 3	_	
Floor Area, ft ²	410	410	「 <u></u> _			「 <u> </u>		
Wall Area, ft ²	810	810						
Ceiling Area, ft ²	410	410				1]	
	<u> </u>					l	ł	
			Fraction	Fraction	Fraction	Fraction	Fraction	
Componei	nts	Total ft3	RW	DAW	Metal	Lead	Concrete	
Glove Boxes								
Hoods		3						
Benches/Tables/D								
Casework/Cabinet								
Reefers, Large Equ	-	_						
Misc. Equip./Labw	are		'			'		
Hot Cells			<u> </u>			<u> </u>		
Storage Tanks		ļ'	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
Other		ļ	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
Sinks		ļ———!	<u> </u>		<u> </u>	<u> </u>	<u> </u>	
Drains			<u> </u>	<u> </u>		<u> </u>	<u> </u>	
Ventilation Drops			<u> </u>	<u> </u>	<u> </u>	'		
_ .	1		1		1 3		1	
Drains	No.	ļ———!	Inch Dia.	<u> </u>	Total ft ³	<u> </u> '		
Ventilation Drops	No.		Inch Dia.	<u> </u>	Total ft ³		J	
Porcon hours	Mgr	Sunver	HP Tech	Shinner	Skilled	Unskilled	Clerical	
Person-hours Characterize	4	Supvsr 8	16	Shipper	Skilled	Uliskilled	4	
Equip. Release	8	16	32	 	<u> </u>	 	8	
Pack/Load waste		10	52		 	 		
Decon/Remed.						 		
Final Survey	4	8	16				4	
i iliai Gai voy	· · · · · ·			<u> </u>			<u> </u>	
# Lab Samples to I	be collected	ı t	1	1				
		- 1		1				

Use	Medium leve	el environm	ental chemi	istry			
Radionuclides, Ex	tent of Conf	tamination	1		Unsealed s	ource usage	
Area Classification		1	1		•		-
# Floors above Ba			İ				
# Floors below Ro	of		İ				
			%	ft2			
	1		needing	needing			
	Total	Class 1	Remed.	Remed.	Class 2	Class 3	
Floor Area, ft ²	441	441					
Wall Area, ft ²	840	840					
Ceiling Area, ft ²	441	441					
			Fraction	Fraction	Fraction	Fraction	Fraction
Componer	nts	Total ft3	RW	DAW	Metal	Lead	Concrete
Glove Boxes		75					
Hoods	,	600					
Benches/Tables/Des/Des/Des/Des/Des/Des/Des/Des/Des/D	<u> </u>						
Casework/Cabinet		400					
Reefers, Large Equ	uipment	200					
Misc. Equip./Labw	are						
Hot Cells		30	<u> </u>				
Storage Tanks							
Other							
Sinks		4					
Drains							
Ventilation Drops							
Duntan	Na [luaria Dia		13		İ
Drains -	No.		Inch Dia.	<u> </u>	Total ft ³		
Ventilation Drops	No.		Inch Dia.		Total ft ³		I
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical
Characterize	4	8	16				4
Equip. Release	4	8	16				4
Pack/Load waste							
Decon/Remed.							
	2	4	8				2

Building 245 Room or Area H210										
lleo	Medium lev	al source n	oduction							
036	Mediaili lev	er source pr	oduction							
Radionuclides, Ex	tent of Cont	amination		Various						
Area Classification		1								
# Floors above Ba										
# Floors below Ro	of						•			
			%	ft2						
			needing	needing						
	Total	Class 1	Remed.	Remed.	Class 2	Class 3				
Floor Area, ft ²	215	215								
Wall Area, ft ²	625	625								
Ceiling Area, ft ²	215	215								
			Fraction	Fraction	Fraction	Fraction	Fraction			
Componei	nto	Total ft3	RW	DAW	Metal	Lead	Concrete			
Glove Boxes	iiis [Total its	LYAA	DAW	Ivietai	Leau	Concrete			
Hoods		2								
Benches/Tables/D	oeke									
Casework/Cabinet										
Reefers, Large Eq										
Misc. Equip./Labw										
Hot Cells	0									
Storage Tanks										
Other										
Sinks										
Drains	ľ									
Ventilation Drops										
					•					
Drains	No.		Inch Dia.		Total ft ³					
Ventilation Drops	No.		Inch Dia.		Total ft ³					
					-					
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical			
Characterize	4	8	16				4			
Equip. Release	8	16	32				8			
Pack/Load waste										
Decon/Remed.	4	0	40				4			
Final Survey	4	8	16		<u> </u>		4			
# Lab Samples to be collected 1										

Building 245 Room or Area H214										
Use	High level r	adiochemis	trv. source r	orep., dilutio	on, dispensi	ng. & storac	ie l			
	1 light 10 vol. 1	<u>aaroononno</u>	,,	orop., unau	ori, dioporior	119, 0 010109	,-			
Radionuclides, Ex		tamination	_	Various un	sealed Liqu	id Sources				
Area Classification		1								
# Floors above Ba										
# Floors below Ro	<u>of</u>			4:0			1			
			%	ft2						
			needing	needing						
	Total	Class 1	Remed.	Remed.	Class 2	Class 3				
Floor Area, ft ²	625	625								
Wall Area, ft ²	1015	1015								
Ceiling Area, ft ²	625	625								
			Fraction	Fraction	Fraction	Fraction	Fraction			
Componei	nts	Total ft3	RW	DAW	Metal	Lead	Concrete			
Glove Boxes										
Hoods		800								
	enches/Tables/Desks									
Casework/Cabinets										
Reefers, Large Equ										
Misc. Equip./Labw	are									
Hot Cells		1								
Storage Tanks										
Other (Lead Pigs)		20								
Sinks		2								
Drains										
Ventilation Drops										
			-		=		•			
Drains	No.		Inch Dia.		Total ft ³					
Ventilation Drops	No.		Inch Dia.		Total ft ³					
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical			
Characterize	4	8	16				4			
Equip. Release	8	16	32				8			
Pack/Load waste										
Decon/Remed.										
Final Survey	4	8	16				4			
# Lab Samples to be collected 1										

Building	245	Roo	om or Area	H215			
Hea	Scintillation	spectrome	tr.,				
USE	Scirilliation	spectrome	иу				
Radionuclides, Ex	tent of Con	tamination		Various Lov	vE Beta (H-3	, C-14, etc.), I	Eu-152, Cs-1
Area Classification		3	1		,		
# Floors above Ba	sement						
# Floors below Ro	of		1				
			%	ft2			
			needing	needing			
	Total	Class 1	Remed.	Remed.	Class 2	Class 3	
Floor Area, ft ²	563					563	
Wall Area, ft ²	955					955	
Ceiling Area, ft ²	563					563	
_			Fraction	Fraction	Fraction	Fraction	Fraction
Compone	nts	Total ft3	RW	DAW	Metal	Lead	Concrete
Glove Boxes							
Hoods							
Benches/Tables/D							
Casework/Cabinet	_						
Reefers, Large Eq							
Misc. Equip./Labw	are						
Hot Cells							
Storage Tanks							
Other							
Sinks		1					
Drains							
Ventilation Drops							
Drains	No.		Inch Dia.		Total ft ³		
Ventilation Drops	No.		Inch Dia.		Total ft ³		
ventuation brops	NO.	<u></u>	Jilicii Dia.		Jiotaiit		
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical
Characterize	1	2	4				1
	1	2	4				1
Equip. Release		T '		,			
Equip. Release Pack/Load waste		<u> </u>			<u> </u>		
Equip. Release Pack/Load waste Decon/Remed.							

Building	245	Roo	om or Area	H217			
Haa	Packaging I	Doom					
USE	rackaging i	TOOIII					
Radionuclides, Ex	tent of Con	tamination	ļ				
Area Classification	า	2]				
# Floors above Ba	sement		1				
# Floors below Ro	of		1				
			%	ft2			
			needing	needing			
	Total	Class 1	Remed.	Remed.	Class 2	Class 3	
Floor Area, ft ²	281				281		
Wall Area, ft ²	675				675		
Ceiling Area, ft ²	281				281		
							•
			Fraction	Fraction	Fraction	Fraction	Fraction
Componei	nts	Total ft3	RW	DAW	Metal	Lead	Concrete
Glove Boxes							
Hoods							
Benches/Tables/D							
Casework/Cabinet	-						
Reefers, Large Equ	-						
Misc. Equip./Labw	are						
Hot Cells							
Storage Tanks							
Other							
Sinks							
Drains							
Ventilation Drops							
Drains	No.		Inch Dia.		Total ft ³		
			4		Total ft ³		
Ventilation Drops	No.	<u> </u>	Inch Dia.		J ι otal π		
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical
Characterize	4	8	16				4
Equip. Release	4	8	16				4
Pack/Load waste							
Decon/Remed.							
Final Survey	2	4	8				2
# Lab Samples to I	be collected	t	1]			

Building	245	Roc	om or Area	H218 Suite	•		
	U010 1 big	b lovel puel	oor modical	research /I	NIMC) H21	0.0 modium	Lovel NIMC
Use	H218-1 higl	n level nucle	ear medicai	research (i	NIVIC), EZ IC	5-2 Medium	level ivivic
Radionuclides, Ext	tent of Con	tamination	,				
Area Classification		1]				
# Floors above Bas			1				
# Floors below Ro	of						
			%	ft2			İ
	1	İ	needing	needing	,		ĺ
	Total	Class 1	Remed.	Remed.	Class 2	Class 3	j
Floor Area, ft ²	499	499		<u> </u>			j
Wall Area, ft ²	1160	1160					j
Ceiling Area, ft ²	499	499					j
Componer	nts	Total ft3	Fraction RW	Fraction DAW	Fraction Metal	Fraction Lead	Fraction Concrete
Glove Boxes	!						
Hoods	!		<u> </u>				
Benches/Tables/De	esks	250	<u> </u>		<u> </u>		
Casework/Cabinet		600					
Reefers, Large Equ	uipment						
Misc. Equip./Labwa	are	100					
Hot Cells	!						
Storage Tanks	ļ						
Other	!						
Sinks	!	4					
Drains	!						
Ventilation Drops	ļ	<u> </u>		<u> </u>			
Drains	No.		Inch Dia.		Total ft ³		1
	_	 	-	 	_		1
Ventilation Drops	No.	<u> </u>	Inch Dia.	<u> </u>	Total ft ³		1
Person-hours Characterize	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical
	4	8	16				4
Equip. Release	8	16	32				8
Pack/Load waste							
Decon/Remed.							
Final Survey	4	8	16	<u> </u>			4
# Lab Samples to I	be collected	t	1]			

Building	245	Roo	om or Area	H219			
	D	·					
Use	Personel De	econ. Roon	1				
Radionuclides, Ex	tent of Con	tamination		N/A			
Area Classification		3	1	-			
# Floors above Ba	sement		1				
# Floors below Ro	of		1				
			%	ft2			
			needing	needing			
	Total	Class 1	Remed.	Remed.	Class 2	Class 3	
Floor Area, ft ²	180					180	
Wall Area, ft ²	429					429	
Ceiling Area, ft ²	180					180	
Compone	nte	Total ft3	Fraction RW	Fraction DAW	Fraction Metal	Fraction Lead	Fraction Concrete
Glove Boxes		1 Otal Ito	T	DAII	Ivictal	Lead	Ooncrete
Hoods							
Benches/Tables/D	esks						
Casework/Cabinet							
Reefers, Large Eq					†		
Misc. Equip./Labw							
Hot Cells							
Storage Tanks							
Other							
Sinks							
Drains							
Ventilation Drops							
			1		1 3		1
Drains	No.	1	Inch Dia.	3	Total ft ³		
Ventilation Drops	No.		Inch Dia.		Total ft ³		
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical
Characterize	1	2	4				1
Equip. Release	1	2	4				1
Pack/Load waste							
Decon/Remed.							
Final Survey	1	2	4				1
# Lab Samples to	be collected	d					

Building	245	Roc	om or Area	H220				
Uaa	Alpha Data	Magaurama	nto					
Use	Alpha Beta	weasureme	enis					
Radionuclides, Ex	tent of Con	tamination		Sealed and	d Unsealed	Sources		
Area Classification		1						
# Floors above Ba	sement							
# Floors below Ro	of							
			%	ft2				
			needing	needing				
	Total	Class 1	Remed.	Remed.	Class 2	Class 3		
Floor Area, ft ²	473	473						
Wall Area, ft ²	870	870						
Ceiling Area, ft ²	473	473						
			-			-	•	
			Fraction	Fraction	Fraction	Fraction	Fraction	
Componei	nts	Total ft3	RW	DAW	Metal	Lead	Concrete	
Glove Boxes								
Hoods								
Benches/Tables/D		250						
Casework/Cabinet		600						
Reefers, Large Equ								
Misc. Equip./Labw	are	100						
Hot Cells								
Storage Tanks								
Other								
Sinks		4						
Drains								
Ventilation Drops								
	[l		1 3		1	
Drains	No.		Inch Dia.		Total ft ³			
Ventilation Drops	No.		Inch Dia.		Total ft ³			
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical	
Characterize	4	8	16	2.23 .b.b.s.			4	
Equip. Release	8	16	32				8	
Pack/Load waste	-	-						
Decon/Remed.								
Final Survey	4	8	16				4	
# Lab Samples to be collected 1								

Building 245 Room of Area 1221									
Hoo	User contar	nination Ch	ack Doom	oounting lo	<u></u>				
USE	OSEI COIIIAI	ııııaıı011 CI	ICUN MUUIII,	counting la	υ.				
Radionuclides, Ex	tent of Con	tamination	1						
Area Classification		3	j '						
# Floors above Ba			1						
# Floors below Ro			1						
			%	ft2					
			needing	needing					
	Total	Class 1	Remed.	Remed.	Class 2	Class 3			
Floor Area, ft ²	169				169				
Wall Area, ft ²	530				530				
Ceiling Area, ft ²	169				169				
			•		-		1		
			Fraction	Fraction	Fraction	Fraction	Fraction		
Componei	nts	Total ft3	RW	DAW	Metal	Lead	Concrete		
Glove Boxes									
Hoods									
Benches/Tables/Desks		200							
Casework/Cabinets		100							
Reefers, Large Equ	-								
Misc. Equip./Labw	are	20							
Hot Cells									
Storage Tanks									
Other									
Sinks									
Drains									
Ventilation Drops									
	·		-				•		
Drains	No.		Inch Dia.		Total ft ³				
Ventilation Drops	No.		Inch Dia.		Total ft ³				
			T						
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical		
Characterize	1	2	4				1		
Equip. Release	1	2	4				1		
Pack/Load waste			ļ				——		
Decon/Remed.	A	•	4				1		
Final Survey	1	2	4				1		
# Lab Samples to be collected									

Building	245	Roc	om or Area	H223				
llee!	Useisstion C							
Use	Ionization C	nambers						
Radionuclides, Ex	tent of Conf	tamination	.					
Area Classification	n [2	1					
# Floors above Ba	sement	 	1					
# Floors below Ro	of	 	1					
	1	 	%	ft2				
	1	ļ	needing	needing	1 1	1		
	Total	Class 1	Remed.	Remed.	Class 2	Class 3	I	
Floor Area, ft ²	141				141			
Wall Area, ft ²	1180				1180		1	
Ceiling Area, ft ²	141				141		I	
	,							
			Fraction	Fraction	Fraction	Fraction	Fraction	
Componei	nts	Total ft3	RW	DAW	Metal	Lead	Concrete	
Glove Boxes								
Hoods		<u> </u>						
Benches/Tables/D		<u> </u>						
asework/Cabinets eefers, Large Equipment								
Reefers, Large Equ	uipment							
Misc. Equip./Labw	are	<u> </u>						
Hot Cells								
Storage Tanks								
Other Sinks								
Sinks								
Drains				<u> </u>				
Ventilation Drops								
	[1		1		İ	
Drains	No.	·	Inch Dia.	<u> </u>	Total ft ³			
Ventilation Drops	No.		Inch Dia.		Total ft ³		I	
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical	
Characterize	4	8	16	· · ·			4	
Equip. Release	4	8	16				4	
Pack/Load waste	ĺ							
Pack/Load waste Decon/Remed.	1						ı T	
Final Survey	2	4	8				2	
# Lab Samples to I	be collected	i	1	j				

Building	245	Ro	om or Area	H225			
Use	Source stor	age					
030	Course stor	age					
Radionuclides, Ex	tent of Con	tamination	1	Various for	Long term	storage	
Area Classification	n	2	1				
# Floors above Ba	sement		1				
# Floors below Ro	of						_
			%	ft2			
			needing	needing			
	Total	Class 1	Remed.	Remed.	Class 2	Class 3]
Floor Area, ft ²	273				273		
Wall Area, ft ²	680				680		
Ceiling Area, ft ²	273				273		
			_	_	_	_	_
			Fraction	Fraction	Fraction	Fraction	Fraction
Componer	nts	Total ft3	RW	DAW	Metal	Lead	Concrete
Glove Boxes							
Hoods	_						
Benches/Tables/D							
Casework/Cabinet							
Reefers, Large Eq	-						
Misc. Equip./Labw	are						
Hot Cells							
Storage Tanks							
Other					ļ		
Sinks					ļ		
Drains							
Ventilation Drops							
Drains	No.		Inch Dia.		Total ft ³		
Ventilation Drops	No.		Inch Dia.		Total ft ³		
ventilation brops	NO.		Jilicii Dia.] i Otai it		
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical
Characterize	4	8	16				4
Equip. Release	4	8	16				4
Pack/Load waste							
Decon/Remed.							
Final Survey	2	4	8				2
# Lab Samples to	be collected	d	1]			

Building	245	Roc	om or Area	H227				
lloo!	List Madiu	level pue	-1 diair		dalata thi	from	חחר	
Use	High-Mediu	m level nuc	lear medicir	ne research	- delete trii:	s page iroiii	PDF	
Radionuclides, Ext	tent of Con	tamination	ſ					
Area Classification	n [1]					
# Floors above Bas	sement							
# Floors below Ro	of							
			%	ft2			l	
		1	needing	needing				
	Total	Class 1	Remed.	Remed.	Class 2	Class 3		
Floor Area, ft ²	270	270					l	
Wall Area, ft ²	675	675						
Ceiling Area, ft ²	270	270					ı	
	_							
			Fraction	Fraction	Fraction	Fraction	Fraction	
Componer	nts _,	Total ft3	RW	DAW	Metal	Lead	Concrete	
Glove Boxes		100	<u> </u>	<u> </u>		<u> </u>		
Hoods		600		<u> </u>	<u> </u>	<u> </u>		
Benches/Tables/Desks		<u> </u>		<u> </u>	<u> </u>	<u> </u>		
Casework/Cabinets		<u> </u>	ļ	 '		<u> </u>		
Reefers, Large Equ		<u> </u>		 '				
Misc. Equip./Labwa	are	<u> </u>		<u> </u>		<u> </u>		
Hot Cells		 	 /	<u> </u>				
Storage Tanks		<u> </u>		<u> </u>	<u> </u>			
Other		<u> </u>		<u> </u>		 		
Sinks		1	 !	<u> </u>		 		
Drains		 		<u> </u>	 	<u> </u>	 	
Ventilation Drops	ļ			<u> </u>	<u></u>			
Drains	No.		Inch Dia.		Total ft ³			
Ventilation Drops	No.		Inch Dia.		Total ft ³		l	
Vendiadion Drops	140.	<u></u>	Jilion Dia. J		J i Otai it		1	
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical	
Characterize	4	8	16				4	
Characterize Equip. Release Pack/Load waste	8	16	32				8	
Pack/Load waste								
Decon/Remed.								
Final Survey	4	8	16				4	
# Lab Samples to b	be collected	Ł	1	l				

Building	245	Roc	om or Area	H229				
Use	High-Mediu	m Level SR	₹M production	on				
Radionuclides, Ext	tent of Con	tamination						
Area Classification		1] '					
# Floors above Bas			1					
# Floors below Ro			1					
			%	ft2				
			needing	needing				
	Total	Class 1	Remed.	Remed.	Class 2	Class 3		
Floor Area, ft ²	441	441						
Wall Area, ft ²	840	840						
Ceiling Area, ft ²	441	441						
				1				
			Fraction	Fraction	Fraction	Fraction	Fraction	
Componer	nts	Total ft3	RW	DAW	Metal	Lead	Concrete	
Glove Boxes								
Hoods								
Benches/Tables/Desks								
Casework/Cabinets								
Reefers, Large Equ								
Misc. Equip./Labwa	are							
Hot Cells								
Storage Tanks								
Other								
Sinks								
Drains								
Ventilation Drops								
			1. '		12		1	
Drains	No.		Inch Dia.		Total ft ³			
Ventilation Drops	No.		Inch Dia.		Total ft ³			
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical	
Characterize	4	8	16				4	
Equip. Release	8	16	32				8	
Pack/Load waste								
Decon/Remed.								
Final Survey	4	8	16				4	
# Lab Samples to I	be collected	k	1					

Building	245	Ro	om or Area	H233			
	<u> </u>						
Use	Low Level F	≀adiochemi	stry				
Radionuclides, Ex	tent of Con	tamination	ı				
Area Classification	n	1	1 '				
# Floors above Ba			1				
# Floors below Ro			1				
			%	ft2			1
•]		needing	needing	!	'	1
	Total	Class 1	Remed.	Remed.	Class 2	Class 3	
Floor Area, ft ²	602	602					
Wall Area, ft ²	995	995					
Ceiling Area, ft ²	602	602					
							'
0	_	T - 4 - 1 640	Fraction	Fraction	Fraction	Fraction	Fraction
Componer	nts	Total ft3	RW	DAW	Metal	Lead	Concrete
Glove Boxes		 			<u> </u>	 '	
Hoods Bonchos/Tablos/Dosks		 	 /		<u> </u>	 '	\vdash
Benches/Tables/Desks Casework/Cabinets		 			<u> </u>	 '	
		 	 /		 	 '	\vdash
Reefers, Large Equ		 			<u> </u>	 '	
Misc. Equip./Labw	are			<u> </u>	<u> </u>	<u> </u> '	
Hot Cells				 	<u> </u>	<u> </u>	
Storage Tanks Other		 		<u> </u>	<u> </u>	<u> </u>	
Other Sinks				 	<u> </u>	 	
			 	 	<u> </u>	 	
Drains Ventilation Drops			 	 	<u> </u>	 	
ventuation Drops	l			<u> </u>			
Drains	No.		Inch Dia.		Total ft ³		1
Ventilation Drops	No.		Inch Dia.		Total ft ³	<u> </u>	1
Vendiadon Brops	140. _[Jilion Dia.	<u> </u>	I Otal It		1
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical
Characterize Equip. Release	4	8	16				4
Equip. Release	8	16	32				8
Pack/Load waste				<u> </u>		<u>'</u>	\sqcup
Decon/Remed.				<u> </u>		'	
Final Survey	4	8	16	<u> </u>		<u> </u>	4
		_		1			
# Lab Samples to I	be collected	1	1	1			

Building	245	Ro	om or Area	H237-1 (O	perations m	oved from C	210)
	Mass Spect	romotry					
	Samples pr		where				
030	Campics pr	cparca cist	ZWIICIC				
Radionuclides, Ex	tent of Con	tamination	l				
Area Classification		2	1				
# Floors above Ba							
# Floors below Ro	of						
			%	ft2			
			needing	needing			
•	Total	Class 1	Remed.	Remed.	Class 2	Class 3	
Floor Area, ft ²	1262				1262		
Wall Area, ft ²	1740				1740		
Ceiling Area, ft ²	1262				1262		
Commonos	-1-	Total #2	Fraction	Fraction	Fraction	Fraction	Fraction
Componer	nts	Total ft3	RW	DAW	Metal	Lead	Concrete
Hoods							
	oeke						
Benches/Tables/Desks Casework/Cabinets							
Reefers, Large Equ							
Misc. Equip./Labw							
Hot Cells							
Storage Tanks							
Other							
Sinks							
Drains							
Ventilation Drops							
	ı		1		1_ 2		1
Drains	No.		Inch Dia.		Total ft ³		
Ventilation Drops	No.		Inch Dia.		Total ft ³		
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical
Characterize	4	8	16				4
Equip. Release	4	8	16				4
Pack/Load waste							
Decon/Remed.							
Final Survey	2	4	8				2
# Lab Samples to I	be collected	i	1]			

Building	245	Roo	om or Area	H237-3				
•	M 0	01 40	000 -1					
	Mass. Spec Sample Pre				nurification	/chom cono	rations	
USE	Sample Fie	p. moluding	g dilution, di	ssolution, o	purilication	/chem sepe	rations.	
Radionuclides, Ex	tent of Con	tamination					1	
Area Classification		1	1					
# Floors above Ba			1					
# Floors below Ro			1					
			%	ft2				
			needing	needing				
	Total	Class 1	Remed.	Remed.	Class 2	Class 3		
Floor Area, ft ²	667	667						
Wall Area, ft ²	1055	1055						
Ceiling Area, ft ²	667	667						
Componer	nts	Total ft3	Fraction RW	Fraction DAW	Fraction Metal	Fraction Lead	Fraction Concrete	
Glove Boxes								
Hoods								
Benches/Tables/Des/Des/Des/Des/Des/Des/Des/Des/Des/D								
Casework/Cabinet								
Reefers, Large Equ								
Misc. Equip./Labw	are							
Hot Cells								
Storage Tanks								
Other								
Sinks								
Drains								
Ventilation Drops								
Drains	No.		Inch Dia.		Total ft ³			
Ventilation Drops	No.		Inch Dia.		Total ft ³			
	- !]	l	
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical	
Characterize	4	8	16				4	
Equip. Release	8	16	32				8	
Pack/Load waste								
Decon/Remed.								
Final Survey	4	8	16				4	
# Lab Samples to I	be collected	t	1					

Building	245	Ro	om or Area	H237-5			
	Mass Spect	•					
Use	Trace and l	Jltratrace E	nvironmenta	al Sample F	Prep.		
Radionuclides, Ex) 7				
Area Classification # Floors above Ba		3	4				
# Floors above Bas							
# FIGUIS DEIGW RO	OI .		%	ft2			1
			needing	needing			
	Total	Class 1	Remed.	Remed.	Class 2	Class 3	
Floor Area, ft ²	150	Glado I	rtomour	rtomour	01000 2	150	
Wall Area, ft ²	500					500	
Ceiling Area, ft ²	150					150	
Johnsy Alea, It	100		<u> </u>		<u> </u>	100	l
			Fraction	Fraction	Fraction	Fraction	Fraction
Componer	nts	Total ft3	RW	DAW	Metal	Lead	Concrete
Glove Boxes							
Hoods							
Benches/Tables/De	esks						
Casework/Cabinet	s						
Reefers, Large Equ	uipment						
Misc. Equip./Labw	are						
Hot Cells							
Storage Tanks Other							
Other							
Sinks							
Drains							
Ventilation Drops							
	_		1		7		1
Drains	No.		Inch Dia.		Total ft ³		
Ventilation Drops	No.		Inch Dia.		Total ft ³		
			T		T	T	
Person-hours Characterize	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical
	1	2	4				1
Equip. Release	1	2	4				1
Pack/Load waste							
Decon/Remed.	4		4				4
Final Survey	1	2	4				1
# Lab Samples to I	be collected	d					

Building	245	Roo	om or Area	H237-5				
Hoo	Mass Spec	Cloop Boo	m Class 10	0				ĺ
USE	iviass spec.	. Clean Roc	III Class 10	U				I
Radionuclides, Ex	tent of Con	tamination						
Area Classification	า	3	1					
# Floors above Ba	sement							
# Floors below Ro	of							
			%	ft2				
			needing	needing				
	Total	Class 1	Remed.	Remed.	Class 2	Class 3		
Floor Area, ft ²	260					260		
Wall Area, ft ²	720					720		
Ceiling Area, ft ²	260					260		
			F 43	F 41	F			
		-	Fraction	Fraction	Fraction	Fraction	Fraction	
Componei	nts	Total ft3	RW	DAW	Metal	Lead	Concrete	Ī
Glove Boxes								}
Hoods	_							ļ
Benches/Tables/D								ļ
Casework/Cabinet								
Reefers, Large Equ	•							Į
Misc. Equip./Labw	are							
Hot Cells								
Storage Tanks								
Other								
Sinks								
Drains								
Ventilation Drops								
-	'		-		-			1
Drains	No.		Inch Dia.		Total ft ³			
Ventilation Drops	No.		Inch Dia.		Total ft ³			
			T					!
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical	
Characterize	1	2	4				1	
Equip. Release	1	2	4				1	
Pack/Load waste								
Decon/Remed.								
Final Survey	1	2	4				1	l
# Lab Samples to I	be collected	t						

Building	245	·	om or Area	11237-0			
Use	Mass Spec	Balance Ro	om Class 1	0000			
Radionuclides, Ext Area Classification # Floors above Bas # Floors below Roo	n sement	tamination 2					
	Total	Class 1	% needing Remed.	ft2 needing Remed.	Class 2	Class 3	
Floor Area, ft ²	90				90		
Wall Area, ft ²	380				380		1
Ceiling Area, ft ²	90				90		
Componer	nts	Total ft3	Fraction RW	Fraction DAW	Fraction Metal	Fraction Lead	Fraction Concrete
Glove Boxes		10141.110			inota.		001101010
Hoods	ļ						<u> </u>
Benches/Tables/De	esks						
asework/Cabinets							
eefers, Large Equipment							
Misc. Equip./Labwa	are						
Hot Cells							
Storage Tanks							
Other							
Sinks					'		
Drains		<u> </u>		<u> </u>	<u> </u>	<u> </u>	,
Ventilation Drops	ļ				<u> </u>		
Drains	No.		Inch Dia.		Total ft ³		
Ventilation Drops	No.		Inch Dia.		Total ft ³		
-			· .		· .		
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical
Characterize	4	8	16		<u> </u>		4
Equip. Release	4	8	16	<u> </u>	<u> </u>		4
Pack/Load waste		<u> </u>	<u> </u>	<u> </u>	<u> </u>		
Decon/Remed. Final Survey	2			<u> </u>	<u> </u>	igsquare	
		4	8	1 '	1 '	1	2

Building	245	Roc	om or Area	H237-6				
llee [[]	Island Char	-tamatnı Da	(0.0m)	-la wajabin	\			
Use	Mass. Spec	tometry bar	iance (samp	ne weigning	<u>3)</u>			
Radionuclides, Ext		tamination	!					
Area Classification	n [2]	•				
# Floors above Bas								
# Floors below Ro	of						_	
			%	ft2				
			needing	needing				
	Total	Class 1	Remed.	Remed.	Class 2	Class 3		
Floor Area, ft ²	100				100			
Wall Area, ft ²	400				400			
Ceiling Area, ft ²	100				100			
			Fraction	Fraction	Fraction	Fraction	Fraction	
Componer	nts	Total ft3	RW	DAW	Metal	Lead	Concrete	
Glove Boxes		<u> </u>	<u> </u> '	ļ'	<u> </u>			
Hoods		 '	<u> </u>	<u> </u>	<u> </u>			
Benches/Tables/De	.	<u> </u>	<u> </u>	 	1			
Casework/Cabinets Reefers, Large Equ	L.	<u> </u>	 	 	<u> </u>			
Misc. Equip./Labwa			 	 	<u> </u>			
Hot Cells	are	<u> </u>	\vdash		<u> </u>			
Storage Tanks		<u> </u>	 		<u> </u>			
Other			 	 	 		-	
Sinks			 	 	 			
Drains			 		 			
Ventilation Drops	ŀ		 					
V 01101101110111 2 1 0 p 2	L		<u> </u>		<u> </u>	<u> </u>	<u> </u>	
Drains	No.		Inch Dia.		Total ft ³			
Ventilation Drops	No.		Inch Dia.		Total ft ³			
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical	
Characterize Equip. Release Pack/Load waste	4	8	16	<u> </u>	<u> </u>		4	
Equip. Release	4	8	16	<u> </u>	<u> </u>		4	
Pack/Load waste		 '	ļ!	<u> </u>	<u> </u>			
Decon/Remed.	-	<u> </u>	ļ <u> </u> !	<u> </u>	<u> </u>		<u> </u>	
Final Survey	2	4	8	<u> </u>			2	
# Lab Samples to b	be collected	t	1	J				

Building	245	Ro	om or Area	H247-1			
Use		tical Work f		lide Separt	ions from lo	w level radio	pactivity
Radionuclides, Ex	tent of Con	tamination	1				
Area Classification		2]				
# Floors above Ba	sement						
# Floors below Ro	of						
	Total	Class 1	% needing Remed.	ft2 needing Remed.	Class 2	Class 3	
Floor Area, ft ²	840				840		
Wall Area, ft ²	1180				1180		
Ceiling Area, ft ²	840				840		
	nte	Total ft3	Fraction RW	Fraction DAW	Fraction Metal	Fraction Lead	Fraction Concrete
Compone	1113	וטומו ווט	T.VV	DAVV	IVICIAI	Leau	Concrete
Hoods							
Benches/Tables/D	esks						
Casework/Cabinet	S						
Reefers, Large Eq	uipment						
Misc. Equip./Labw	are						
Hot Cells							
Storage Tanks							
Other							
Sinks							
Drains							
Ventilation Drops			<u> </u>		<u> </u>	<u> </u>	
Drains	No.		Inch Dia.		Total ft ³		
Ventilation Drops	No.		Inch Dia.		Total ft ³		
		<u> </u>	1	1	7	<u> </u>	
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical
Characterize	4	8	16				4
Equip. Release	4	8	16				4
Pack/Load waste							
Decon/Remed.							-
Final Survey	2	4	8				2
# Lab Samples to	be collected	i	1				

Building 245 Room or Area H247-2										
	Low level R	adiochemis	try Clean R	oom-Fusior						
	Sample dry		•			eaning.				
						· .g.				
Radionuclides, Ex	tent of Con	tamination								
Area Classification	1	2								
# Floors above Ba										
# Floors below Ro	of						-			
			%	ft2						
			needing	needing						
2	Total	Class 1	Remed.	Remed.	Class 2	Class 3				
Floor Area, ft ²	713				713					
Wall Area, ft ²	1075				1075					
Ceiling Area, ft ²	713				713					
			•		-	• ———	-			
			Fraction	Fraction	Fraction	Fraction	Fraction			
Componer	nts	Total ft3	RW	DAW	Metal	Lead	Concrete			
Glove Boxes										
Hoods										
Benches/Tables/De										
Casework/Cabinet										
Reefers, Large Equ										
Misc. Equip./Labw	are									
Hot Cells										
Storage Tanks										
Other										
Sinks										
Drains										
Ventilation Drops										
			•		•		_			
Drains	No.		Inch Dia.		Total ft ³					
Ventilation Drops	No.		Inch Dia.		Total ft ³					
·			<u> </u>			<u> </u>				
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical			
Characterize	4	8	16				4			
Equip. Release	4	8	16				4			
Pack/Load waste										
Decon/Remed.										
Final Survey	2	4	8				2			
# Lab Samples to be collected 1										

Building 245 Room or Area H-Wing Penthouse										
Use	H\/\\C	120 Softne	r Acid Ver	te (Perchlo	ric\ Padioa	ctive Hood	Evhauet			
056	HVAC, I	IZO SUILIE	i, Acia vei	its (Fercillo	ilic), Nauloa	ictive i lood	Exilausi			
Radionuclides, Ex	tent of Con	tamination		Various fro	m labs					
Area Classification		1	1							
# Floors above Ba	sement	2	1							
# Floors below Ro	of	1	1							
			%	ft2						
			needing	needing						
	Total	Class 1	Remed.	Remed.	Class 2	Class 3				
Floor Area, ft ²	11948	11948	0.05	597.4						
Wall Area, ft ²	9198	9198								
Ceiling Area, ft ²	11948	11948								
			Fraction	Fraction	Fraction	Fraction	Fraction			
Compone	nts	Total ft3	RW	DAW	Metal	Lead	Concrete			
Glove Boxes										
Hoods	_									
Benches/Tables/D										
Casework/Cabinet										
Reefers, Large Eq	-									
Misc. Equip./Labw	are									
Hot Cells										
Storage Tanks										
Other <u>: 3" PVC ven</u>	<u>t</u>	60	1	1						
Sinks										
Drains		62.2								
Ventilation Drops		4300.0	0.9	0.05	0.95					
Drains	No.	14	Inch Dia.	8	Total ft ³	62.2				
Ventilation Drops	No.	14	Inch Dia.	U	Total ft ³	02.2				
ventilation brops	NO.		Jilicii Dia.		Jiotaiit					
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical			
Characterize	4	8	16				4			
Equip. Release	30	60	120		120	120	30			
Pack/Load waste	35	70	140	60	140	140	35			
Decon/Remed.	4	16	40	8	40	40	4			
Final Survey	8	16	32				8			
Pack/Load waste Decon/Remed. Final Survey	35 4	70 16 16	140 40		140	140	3			

Note: Ventillation above includes. 67 HEPAS in 12 banks

	T. , .						
Building	Various	Roc	om or Area	Laboratorie	es Previous	ly Used.	
Use	,						
Radionuclides, Exter	nt of Contar		, ,	Various			
Area Classification	!	2 and 3					
# Floors above Base		<u></u>	_				
# Floors below Roof	<u>, </u>	<u> </u>	1	1 (10			1
	!		%	ft2			1
	_ , , '		needing	needing			1
2	Total	Class 1	Remed.	Remed.	Class 2	Class 3	1
Floor Area, ft ²	50000	<u> </u>	<u> </u> '	<u> </u>	25000	25000	1
Wall Area, ft ²	135000	<u> </u>		<u> </u>	67500	67500	1
Ceiling Area, ft ²	50000		!	<u> </u>	25000	25000	j
							•
			Fraction	_	_	_	_
Component	ts	Total ft3	RW	ft ³ DAW	ft ³ Metal	ft ³ Lead	ft ³ Concrete
Glove Boxes	!						
Hoods	!						
Benches/Tables/Des	ks						
Casework/Cabinets	!						
Reefers, Large Equip							
Misc. Equip./Labware	е						
Hot Cells	!						
Storage Tanks	!						
Other	ļ						
Sinks	!			<u> </u>		<u> </u>	
Drains	!						
Ventilation Drops	!			<u></u>			
D. steel	N.		1 Dia		73		1
Drains	No.		Inch Dia.	<u> </u>	Total ft ³		1
Ventilation Drops	No.	<u> </u>	Inch Dia.	<u> </u>	Total ft ³		i
Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical
Characterize	62.5	125	250				62.5
Equip. Release	25	50	100				25
Pack/Load waste							
Decon/Remed.							
Final Survey	25	50	100				25
				-			
# Lab Samples to be	collected		25				

TAB 3.5: FACILITY ROLL-UP - Laboratories

	Total	Class 1	% needing Remed.	ft2 needing Remed.	Class 2	Class 3
Floor Area, ft ²	151577	36813	ixemed.	1615	34469	83459
Wall Area, ft ²	348064	62850		298	81403	208334
Ceiling Area, ft ²	152357	36813		95	34469	84239

ft³ Fraction ft³ DAW ft³ Metal ft³ Lead Concrete Components **Total ft3** RW **Glove Boxes** 370 86.5 13.5 Hoods 5245 215 17151 2.5 7.5 Benches/Tables/Desks Casework/Cabinets 21534 24.6 40.4 Reefers, Large Equipment 41105 Misc. Equip./Labware 11014 33 7 **Hot Cells** 93 Storage Tanks 2718.6 260 Other 4813 2.4 Sinks 25.2 474 100.41 0.01 Drains 0.01 **Ventilation Drops** 4773.75 6.25 6.25 Waste in Storage 960 768 192

Drains	No.	Inch Dia.	Total ft ³	
Ventilation Drops	No.	Inch Dia.	Total ft ³	

Person-hours	Mgr	Supvsr	HP Tech	Shipper	Skilled	Unskilled	Clerical
Characterize	436	872	1748				436
Equip. Release	524.5	1049	2106	4	129	129	523.5
Pack/Load waste	93.55	188.25	351	185	390	390	93.55
Decon/Remed.	67.5	147.75	315	72	330	330	67.3
Final Survey	355	711	1424				355

Lab Samples to be collected 130

3.6 PLANNING AND PREPARATION (Work Days)

Estimate the number of workdays, by specific labor category, that will be required to complete planning and preparation activities. Include all labor categories, including Supervisor, Foreman, Craftsman, Technician, Health Physicist, Laborer, Clerical, and others as needed.

inolading dapervisor, i oreman, oransman, redimidan, riedin	· · · · · · · · · · · · · · · · · · ·	Boror, Cierroa	, and outlone a				
Activity	Project Mgr	Supervisor	HP Technician	Shipper	Radiation Workers (Craftsmen)	Radiation Workers (Non-skilled)	Clerical
Preparation of Documentation for Regulatory Agencies	15.0	15.0	5.0	15.0			10.0
Submittal of Decommissioning Plan to NRC when required by 10 CFR 30.36(g)(1), 40.42(g)(1), or 70.38(g)(1)	5.0			5.0			5.0
Development of Work Plans	10.0	10.0		10.0			10.0
Procurement of Special Equipment	20.0	5.0		5.0			5.0
Staff Training	2.0	4.0	8.0	2.0	40.0	40.0	5.0
Characterization of Radiological Condition (including sampling, soil and tailings analysis, or groundwater analysis, if applicable)	54.5	109.0	218.5				54.5
Other (specify) Mobilization	1.0	2.0	8.0	1.0			
TOTALS	107.5	145.0	239.5	38.0	40.0	40.0	89.5

Laboratory Areas

3.7 DECONTAMINATION OR DISMANTLING OF RADIOACTIVE FACILITY COMPONENTS (Work Days)

Estimate the number of workdays, by specific labor category, that will be required to complete decontamination and/or dismantling activities for each facility component. Copy and complete this table as necessary for each room, laboratory, or area. Rooms, laboratories, or areas with similar levels of contamination may be consolidated in one table.

Name of room, laboratory, or a	rea:	NIST Labo	oratory Area	s Roll-up				
Level of Contamination:								
Component	Action	Project Mgr	Supervisor	HP Technician	Shipper	Radiation Workers (Craftsmen)	Radiation Workers (Non-skilled)	Clerical
Glove Boxes	Remove/Disp	2	8	17	1	3	3	2
Fume Hoods	Remove/Disp	6	13	25	1	3	3	6
Lab Benches	Decon/Remove	1	3	5	1	7	7	1
Sinks	Decon/Remove	1	3	5	1	4	4	1
Drains	Remove/Disp	4	6	12	1	5	5	4
Floors	Decon/Wipe	4	6	12	1	10	10	4
Walls	Decon/Wipe	3	4	7		6	6	3
Ceilings	Decon/Wipe							
Ventilation/Ductwork	Remove/Disp	4	12	28	1	15	15	4
Cabinets	Decon/Remove	4	7	14	1	4	4	4
Hot Cells	Remove/Disp	4	4	7	1	4	4	4
Equipment/Materials	Sur/Rem/Disp	38	82	170	4	22	22	38
Soil Plots	Sample							
Storage Tanks	Remov/Disp	4	7	12	6	12	12	4
Storage Areas	Remove/Disp	3	4	7	3	1	1	3
Radwaste Areas	Remove/Disp	3	4	7	4	3	3	3
Scrap Recovery Areas	N/A							
Maintenance Shop	Remove/Disp							
Equipment Decontamination	Remove/Disp							
Sources	Remove/Disp	5	10	19	7	7	7	5
Other (specify)	Remove/Disp							
TOTALS		86	173	347	33	106	106	86

3.8 RESTORATION OF CONTAMINATED AREAS ON FACILITY GROUNDS (Work Days)

0

1

Estimate the number of work days, by specific labor category, that will be required to restore contaminated areas on the facility grounds. NIST Laboratory Areas Roll-up Name of room, laboratory, or area: Radiation Radiation ΗP Project Activity Supervisor Shipper Clerical Workers Workers Mgr Technician (Craftsmen) (Non-skilled) 2 2 Restore Floors 0 1 0 2 0 Restore Walls Restore Roof Restore Utilites

2

0

2

2

0

TOTALS

3.9 FINAL RADIATION SURVEY (Work Days)

(110111 =	(Holk Bayo)										
Estimate the number of work da	ays, by specif	ic labor catego	ory, that will b	e required to	conduct a fina	I radiation surve	у.				
Name of room, laboratory, or a	rea:	NIST Laboratory Areas Roll-up									
Activity	Project Mgr	Supervisor	HP Technician	Shipper	Radiation Workers (Craftsmen)	Radiation Workers (Non-skilled)	Clerical				
FSS Setup	13	7	6				22				
Survey Packages	13	6	7				22				
Class 1	7	45	103								
Class 2	6	16	31								
Class 3	5	15	31								
TOTALS	44	89	178				44				

3.10 SITE STABILIZATION AND LONG-TERM SURVEILLANCE

(Work Days)

Estimate the number of work days, by specific labor category, that will be required to complete site stabilization and long-term surveillance activities. Radiation Radiation ΗP Activity Project Mgr Supervisor Shipper Workers Workers Clerical Technician (Craftsmen) (Non-skilled) No Site Stabilization or Long Term Maintenance TOTALS

3.11 TOTAL WORK DAYS BY LABOR CATEGORY

Enter the total work days for each specific labor category from the applicable table above (i.e., from the bottom rows of Tables 3.6 through 3.10)

3.6 through 3.10).							
Task	Project Mgr	Supervisor	HP Technician	Shipper	Radiation Workers (Craftsmen)	Radiation Workers (Non-skilled)	Clerical
Planning and Preparation (TOTALS from Table 3.6)	108	145	240	38	40	40	90
Decontamination and/or Dismantling of Radioactive Facility Components (Sum of TOTALS from all copies of Table 3.7)	86	173	347	33	106	106	86
Restoration of Contaminated Areas on Facility Grounds (TOTALS from Table 3.8)	0	1	2	0	2	2	0
Final Radiation Survey (TOTALS from Table 3.9)	44	89	178				44
Site Stabilization and Long- Term Surveillance (TOTALS from Table 3.10)							

3.12 WORKER UNIT COST SCHEDULE

Estimate labor costs (including salary, fringe benefits, and corporate overhead). Include all appropriate labor categories, including Supervisor, Foreman, Craftsman, Technician, Health Physicist, Laborer, Clerical, and others as needed.

Labor Cost Component	Project Mgr	Supervisor	HP Technician	Shipper	Radiation Workers (Craftsmen)	Radiation Workers (Non-skilled)	Clerical
Salary & Fringe (\$/year)	\$114,540	\$96,530	\$80,442	\$96,530	\$49,280	\$44,130	\$48,680
Overhead Rate (%)	75%	75%	75%	75%	75%	75%	75%
Total Cost Per Year	\$200,445	\$168,928	\$140,774	\$168,928	\$86,240	\$77,228	\$85,190
Living Expenses (PD*7/5) ¹	\$419	\$419	\$419	\$419			
Total Cost Per Work Day ²	\$1,190	\$1,068	\$960	\$1,068	\$332	\$297	\$328

¹Per Diem Rate: \$299 per day.

²Based on 260 work days per year (e.g., 260).

3.13 TOTAL LABOR COSTS BY MAJOR DECOMMISSIONING TASK

Multiply the estimated work days for each specific labor category (from Table 3.11) by the total cost per work day for the corresponding labor category (from Table 3.12), and enter the results in the table below. Then, add across all labor categories to determine the total labor costs for each major decommissioning task.

eden majer decemments								
Labor Cost Component	Project Mgr	Supervisor	HP Technician	Shipper	Radiation Workers (Craftsmen)	Radiation Workers (Non-skilled)	Clerical	Total Labor Cost
Planning and Preparation	\$127,876	\$154,907	\$229,929	\$40,596	\$13,268	\$11,881	\$29,325	\$607,781
Decontamination and/or Dismantling of Radioactive Facility Components	\$101,936	\$184,953	\$332,653	\$34,854	\$35,201	\$31,522	\$28,029	\$749,148
Restoration of Contaminated Areas on Facility Grounds	\$480	\$863	\$1,551	\$431	\$536	\$480	\$132	\$4,473
Final Radiation Survey	\$52,340	\$95,081	\$170,887				\$14,417	\$332,724
Site Stabilization and Long- Term Surveillance								

3.14 PACKAGING, SHIPPING, AND DISPOSAL OF RADIOACTIVE WASTES (Excluding Labor Costs)

(a) Packing Material Costs

Estimate the types and volumes of waste expected to be generated, along with the number and types of containers required for packaging the waste. Multiply the number of containers required by the unit cost per container.

Waste Type	Volume (ft3)	Number of Containers	Type of Containers	Unit Cost of Container	Total Packaging Costs
DAW	1181	2.0	20' Sea-Land or intermodal	\$2,000	\$4,000
Metal	507	3.0	20' Sea-Land or intermodal	\$2,000	\$6,000
Lead	2	1.0	55 gal. Drum	\$200	\$200
Concrete	100	3.0	B-25	\$2,500	\$7,500
TOTAL					\$17,700

(b) Shipping Costs

Estimate the types and volumes of waste expected to be generated, along with the number and types of containers required for packaging the waste. Multiply the number of containers required by the unit cost per container.

packaging the waste. Multiply the number of containers required by the unit cost per container.						
Waste Type	Number of Truckloads	Unit Cost (\$/mile/truckload)	Surcharges (\$/mile)	Overweight Charges(\$/mile)	Distance Shipped (miles)	Total Shipping Costs
DAW	1	\$4.25	\$1.50		525	\$3,019
Metal	2.5	\$4.25	\$1.50		525	\$7,547
Lead		\$4.25	\$1.50		525	
Concrete	0.5	\$4.25	\$1.50		525	\$1,509
TOTAL	4					\$12,075

(c) Waste Disposal Costs

Estimate the volume of waste to be disposed. Multiply the volume of waste disposed by the unit\disposal cost (including any volume based surcharges). Add any surcharges that are based on the number of containers of waste. along with the number and types of containers required for packaging the waste. Multiply the number of containers required by the unit cost per container.

Waste Type	Disposal Volume (ft3)	Density (lb/ft3)	Quantity or Disposal Mass (lbs)	Unit Cost	Surcharges (based on \$/ft3 or \$/container)	Total Disposal Costs
DAW	1181	20	23617	\$7.25		\$171,224
Metal	507	70	35480	\$6.00		\$212,880
Lead	2	350	840	\$5.00		\$4,200
Concrete	100	100	10040	\$3.75		\$37,648
Liquid Waste	59	63	3717	\$8.00		\$29,736
Class B Waste (WCS)	20	N/A	N/A	\$700.00		\$14,000
Sealed Sources (Two-120ft3 shipments to WCS federal cell)	240	N/A	2	\$320,000.00		\$640,000
TOTAL	1791					\$1,109,688

3.15 EQUIPMENT/SUPPLY COSTS (Excluding Containers)

Estimate the quantity of equipment and supplies required for decommissioning and multiply that quantity by the appropriate unit costs.

Equipment/Supplies	Quantity	Unit Cost	Total Equipment/Supply Cost
Protective Clothing	4187	\$7.5	\$31,402
Respirators	738	\$5	\$3,688
HP Instruments	12	\$2,200	\$26,400
Misc Tools	1	\$25,000	\$25,000
Consumables	1	\$5,000	\$5,000
TOTAL			\$91,489

3.16 LABORATORY COSTS

If applicable, estimate the costs for analyses to be performed by an independent third party laboratory.

Activity	Quantity	Unit Cost	Total Item Cost
Sampling	130	\$15	\$1,950
Transport of Samples	130	\$20	\$2,600
Testing and Analysis	130	\$825	\$107,250
Other (specify)			
TOTAL			\$111,800

3.17 MISCELLANEOUS COSTS

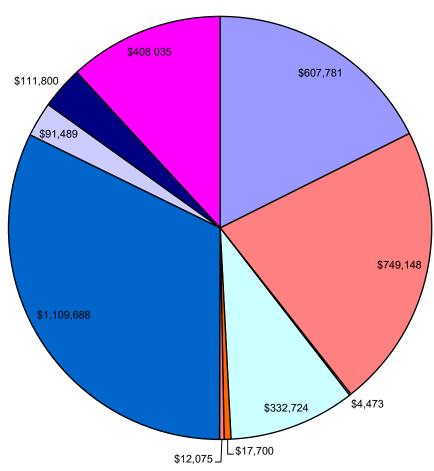
Estimate any other applicable costs.				
Activity	Total Cost			
License Fees	\$2,700			
Insurance	\$101,648			
Taxes	\$303,688			
TOTAL	\$408,035			

3.18 TOTAL DECOMMISSIONING COSTS

Enter the total costs reported in Tables 3.13, 3.14(a)-(c), 3.15, 3.16, and 3.17 into the appropriate cells below, and add then to obtain a subtotal. Add to the subtotal a contingency allowance in the amount of 25 percent of the total decommissioning cost estimate. Also, calculate for each task/component the percentage it represents of the total.

Task/Component	Cost	Percentage
Planning and Preparation (from Table 3.13)	\$607,781	17.6%
Decontamination and/or Dismantling of Radioactive Facility (From Table 3.13)	\$749,148	21.7%
Restoration of Contaminated Areas on Facility Grounds (From Table 3.13)	\$4,473	0.1%
Final Radiation Survey (From Table 3.13)	\$332,724	9.7%
Packing Material Costs (TOTAL from Table 3.14(a))	\$17,700	0.5%
Shipping Costs (TOTAL from Table 3.14(b))	\$12,075	0.4%
Waste Disposal Costs (TOTAL from Table 3.14(c))	\$1,109,688	32.2%
Equipment/Supply Costs (TOTAL from Table 3.15)	\$91,489	2.7%
Laboratory Costs (TOTAL from Table 3.16)	\$111,800	3.2%
Miscellaneous Costs (TOTAL from Table 3.17)	\$408,035	11.8%
SUBTOTAL	\$3,444,914	100.0%
25% Contingency	\$861,228	25.0%
TOTAL DECOMMISSIONING COST ESTIMATE	\$4,306,142	125.0%

Decommissioning Cost Breakdown



- ■Planning and Preparation (from Table 3.13)
- Decontamination and/or Dismantling of Radioactive Facility (From Table 3.13)
- □Restoration of Contaminated Areas on Facility Grounds (From Table 3.13)
- □ Final Radiation Survey (From Table 3.13)
- Packing Material Costs (TOTAL from Table 3.14(a))
- ■Shipping Costs (TOTAL from Table 3.14(b))
- ■Waste Disposal Costs (TOTAL from Table 3.14(c))
- ■Equipment/Supply Costs (TOTAL from Table 3.15)
- Laboratory Costs (TOTAL from Table 3.16)
- ■Miscellaneous Costs (TOTAL from Table 3.17)