Appendix C

NSS Characterization Report September 22, 2005 Revision 0 1 of 180

APPENDIX C RADIOLOGICAL DATA SHEETS

(Log summary, radiological data sheets NSS - 0001 through 0101 with sample location maps and confirmatory lab analyses)

Survey No.	Date	Location
NSS-0001	3/28/05	PORT SIDE "A" DECK STATEROOMS & OTHER ROOMS
NSS-0002	3/28/05	PORT SINE "A" DISCK STATEROOMS & OTHER ROOMS
NSS-0003	3/28/05	STARBOARD STATERGOMS A"DECK
NSS-0004	3/28605	STANBOARD STATEROOMS "A" DECK
NSS-0005	3/28/05	"A" DISCIC STANBOAND BANBER SHOP
NSS-0006	3/28/05	STARBOARD SIDIZ "B" DECIL CARW STATERGOMS
NSS-0007	3/28/05	STAUBOARD SINE B' DECK CREW 4 OFFICER STATEROOMS
NSS-0008	3/28/05	"B" DECK PORT SIDE UNIVERSITY OF SOUTH CANOLINA OFFICES
NSS-0009	3/28/05	"B" DALK PORT SIDE CARW PANTRY
NSS-0010	3/29/65	STATERSON 34 PORTGINE "A" PRCIC
NSS-0011	3/29/05	"B" DECK PORT CART. MESS ROOM & CART. LOUNGE
NSS-0012	3/29/05	"B" DECK PORT SIPE OFFICERS MASS
NSS-0013	3/29/05	"B" DECK PORT SIPR STATERGOMS, OFFICE, CLARMING GARR LOCHEN
NSS-0014	3/29/65	B" DECK CRNTKK LINIR BOWNS FAN ROOM COMPERENCE ROOM
NSS-0015	3/29/05	"B" DECK CTR. LIME MAIN GALLEY
NSS-0016	3/29/05	"B" DECK CTR LINE DIMING ROOM
NSS-0017	3/29/05	B" DACK INBOARD PORT SIDE STEWARD LAUMDAY
NSS-0018	3/29/05	"B" DECK CREW BARBER SHOP
NSS-0019	3/29/05	PROMENGOE DECK VERAMINA & MAIM LOUNGE
NSS-0020	3/29/05	BOAT DEEK OFFICERS OTES
NSS-0021	3/29/05	BOUT DECK OFFICERS QTRS
NSS-0022	3/29/05	NAVIGATION BRIDGE DECK & PILOT HOUSE

Survey No.	Date	Location
NSS-0023	3/30/05	"C" DECK CREW CABINS
NSS-0024	3/30/05	"C" DECK MACHIMA LOADING PRESIDE
NSS-0025	3/30/05	"C" DECK CO2 Room
NSS-0026	3/30/05	"C" DIECK STHURDARD SIDIE ROOMS
NSS-0027	3/30/05	"C" DISCK FORT STHERMAN ROOMS
NSS-0028	3/30/05	ENGINE ROOM UPPAR LANDING TO MACIFIMA PASSACEWAY
NSS-0029	3/30/05	FAI CIMA ROOM Uppen LAURE
NSS-0030	3/30/05	"C" DECK LOCKERS FOR BREATHING GENR
NSS-0031	3/30/05	"A" DECK BOTTOM DANIM OF EXHAUST VEAT TO TOPOR MIST
NSS-0032	3/31/05	"C" DECK LAUNIAY & LINEN ROMS
NSS-0033	3/31/05	4 C" PONT & STARBOAND PASSAGERWAYS
NSS-0034	3/31/05	"C" HALLWAY AND LAUNDAY ENTRANCA
NSS-0035	3/31/05	SOURCE RECIRIT
NSS-0036	3/31/05	NAVIGATION DECK - EMBRG. CERN. Rom
NSS-0037	3/31/05	"B" DECK Hyprouse Equipment PLATFORM
NSS-0038	3/31/65	"B" DISCH CHAW LAUMDAY LICHTIME LOND CTR. CLEAMING GOOD LOCKAA.
NSS-0039	3/31/05	BOAT DECK -> PROMEMBOR DECK -> A" DACK -> B" DECK
NSS-0040	3/31/05	NAUIGATION DICK - BORAN DUMP CONTROL RM
NSS-0041	3/31/05	ENGINIERRING WORK STATION HOLLI #5
NSS-0042	3/31/05	MAIN ENGINE Ru LOWER LEVEL PORT SINA OF SHART
NSS-0043	3/31/05	MAIN ENGINE RM LOWAR LAURE STARBORN SIDA OF SHART
NSS-0044	3/31/05	MAIN SHAFT ALLKY

Survey No.	Date	Location
NSS-0045	4/1/05	CONTROL ROOM FOR RENETON
NSS-0046	4/1/05	14' FLAT DECK STARBOARD SIDE
NSS-0047	4/1/05	14' FLAT DECK PORT SINK
NSS-0048	4/1/05	"D" DECK FOOD STORIES STARBOARD SIDE
NSS-0049	4/1/05	"D" DECK SPECIAL STORAS PORT SIDE
NSS-0050	4/1/05	"A" Daux AFT House
NSS-0051	4/1/05	"B" DECK STERM COMPARTMENTS
NSS-0052	4/1/05	"C" DECK EMERL. H.P. LAB
NSS-0053	4/1/05	"C" DECK (AFT OF H.P.LAB) COMPARTMENTS
NSS-0054	4/1/65	CARGO HOLD # 4 B, C, D, HOLD DECKS
NSS-0055	4/4/05	"A" DECK PORT SIDE FAM ROOM AMO PLANUM
NSS-0056	4/4/05	"B" DECK STATIEROOM B-1, PAN WASTA STORAGE
NSS-0057	4/4/05	14' FLAT FWD STABLIZER Rim STARBOARD
NSS-0058	4/4/05	FWD STABLIZER Rm STARBORAD LOWER LEVAL PMD CROSS OURA TO PORT
NSS-0059	4/4/05	FWIT STABILIZER RAM PORT UPPER LEVEL
NSS-0060	4/4/05	FWIT STABLIZION Rom PORT LOWER LEVIL
NSS-0061	4/4/05	FWD WEATHER DECK HOUSIES BETWEEN HATCHES 184
NSS-0062	4/5/05	B' DECK FAM ROOM
NSS-0063	4/5/05	HOLD AHU "D" DECK STARBORRD
NSS-0064	4/5/05	"C" DECK COLD WATER CHEM LOB Upper LEVEL
NSS-0065	4/5/05	HOLD DECK PORT & STARBONAD
NSS-0066	4/5/05	HALL WAY (CROSSOUME) ON HOLD DECK

Survey No.	. Date	Location					
NSS-0067	4/6/05	SECONDARY CONTAINMENT "B" DECIL DEFOR REACTOR					
NSS-0068	4/6/05	"A" DECK HP LAB AT MOSPITAL					
NSS-0069	4/7/85	PRIMARY CONTAIN MENT INSINE HATCH CONTROLS					
NSS-0070	4/7/05	"D" DECK (COLD CHEM LAD) (FROM"C"DACK) RAD SAMPLING ROOM GAS ABSONDT INN FRUID ROOM WASTERSTONES					
NSS-0071	4/8/05	"D" DECK (COLD CHEM LAD) (FROM"C"DACK) RAD SAMPLING ROOTH GAS ABSONDTION, EQUIP ROOM, WASTR STORAGE "C" DECK SECONDAMY CONTAIN MENT FUD					
NSS-0072	4/8/05	"7" 2 ,					
NSS-0073	4/8/05	"A" DECK SECONDER CONTENTATION					
NSS-0074	4/8/05	PRIMARY CONTAINMENT AIR LOCK					
NSS-0075	4/8/05	SECOMBARI COMTRIMMENT "D" DECK ART MEZANIME PMI LOWER BARAS					
NSS-0076	4/8/05	SECONDARY CONTRIMMENT LOWER LAUN (HOLD DRCK)					
NSS-0077	4/11/05	PRIMARY CONTAINMENT HATCH (LOWER)					
NSS-0078	4/11/05	PRIMARY CONTAINMANT ("C" DECK) 157 hEURI PRELIMINARY SIMENAS PRIMARY CONTAINMENT ("C" PACK) 15T LEVISL FUD					
NSS-0079	4/14/65	PRIMARY CONTAINMENT (C" DACK) 1ST LAWAL FUD					
NSS-0080	4/11/05	STEAM COMPANSON HATCH (ENGINA ROOM)					
NSS-0081	4/11/05	"D" DECK HOT CHEM. LAR AT COMTROL ROOM					
NSS-0082	4/12/05	PRIMMY CONTAINMENT 41H LEVEL (HOLD DACK)					
NSS-0083	4/12/05	PRIMARY CONTAINMAKING 1°T LAURE ("C" DRCK)					
NSS-0084	4/12/05	PRIMARY COMTAINMENT 2 M LOUISE ("D" DRCK)					
NSS-0085	4/12/05	PRIMARY CONTAINMENT 3rd LAURE (14' FLAT)					
NSS-0086	4/12/05	CHANGE PUMP ROOMS (PORT & STBD)					
NSS-0087	4/13/05	PRIMARY CONTAINMENT 1ST LEURE ("C" PACIE)					
NSS-0088	4/14/65	SECONDAY CONTAINMENT LOWER LEURI CORR BORR					

Survey No.	Date	Location
NSS-0089	4/14/05	"U"SHAPED STEAM GENERATORS IN PRIMARY COMT.
NSS-0090	4/19/05	Top or Cupora STBID NITHOGAN VALUE FLANCE
NSS-0091	4/20/05	/
NSS-0092	4/50/05	
NSS-0093	4/21/05	PRIMARY CONTRIPORARY - STRO STROM GEM WORL HARA
NSS-0094	4/21/05	PRIMARY CONTAINMENT FWII OF REACTOR 15Ty 2 and LAUGE
NSS-0095	4/21/05	PRIMARY COMTAINMANT PORT UTUBA STEAM CARM
NSS-0096	4/20/05	PRIMARY CONTRIMARION STRA VIVER STRAW GIEN.
NSS-0097	4/21/05	PRIMARY CONTAINMENT PORT UTURE STRAM GAM.
NSS-0098	4/22/05	PRIMARY COMTAINMANT PORT UTIAM STRAM GAM. POST JOB SURVEY
NSS-0099	4/25/65	SURVEY OR METERS USEN OM JOB
NSS-0100	4/25/65	PORT STEAM DAVM SECONDHAY
NSS-0101	4/26/05	PIFE FROM MITROGRAM LIME IN PRIMARY CONT.
NSS-0102		
NSS-0103		
NSS-0104		
NSS-0105		
NSS-0106		
NSS-0107		
NSS-0108		
NSS-0109		
NSS-0110		

Survey No.	Date	AIR SAMPLES Location	
NSS-0111	4/5/05	COLD CHEM LAD "C" DECK	
NSS-0112	4/6/05	ACLESS TO SECONDARY CONTAINMENT	
NSS-0113	4/7/05	CHREGE Pump Bon STBD.	
NSS-0114	4/8/05	AIR LOCK FOR PRIMARY CONTAINMENT	
NSS-0115	4/8/05	PRIMARY CONTAINMAND 1ST LEVAL	
NSS-0116	4/8/05	CHARCE PUMP RAM STBD RECHACK	
NSS-0117	4/11/65	"C" DECK COLD CHAIR LAB RECHECK	
NSS-0118	4/11/05	PRIMARY CONTAINMENT 2nd LIEURI	
NSS-0119	4/11/05	SECONDINAL CONTAININENT LOWAR LAURE	
NSS-0120	4/12/05	PRIMARY CONTAINMENT 4 15 LAURE	
NSS-0121	4/2405	PRIMARY CONTRIMENT UTUBA STAIR GAM. ACCASS COURA OPENING.	
NSS-0122		TOURS COURSE OFFINIAGE	
NSS-0123			
NSS-0124			
NSS-0125			
NSS-0126			
NSS-0127			
NSS-0128	_		
NSS-0129			
NSS-0130			
NSS-0131			
NSS-0132			

	RADIOLOGICAL SUI	RVET	
NSS-01		SURVEY NO.	55-0001
Date 3/28/05Time 9:00 AM	DOSE RATE	CONTAMIN	NATION
Surveyor CRADDOCK	Inst. Type LUDLUM	Beta Alpha	BetaAlpha
Signature acodode	Serial No. <i>45449</i>	Inst.Sn 974/6	
Reviewed Ka Wy manh	β-Factor —	Eff. 10 %	
	BKG 44R/h	Bkg. 30 cpm	cpm
AREA PORTSIDE A DECL	(
COMPONENT			
DOOR KNOB -: BATH FLOOR -: AIR VENT-OVHD - BATH DOOR KNOB -:	3		
TOILIET PORCHIM 4 BRANS 7-8 MR/1 TO VARMIUM ON TH	n Du roniorm	LESS THAN BKE	S-D
ASS. LAUNDRY LANGE	LADIES LOWO	STRM 12-13 M RESTRM > BKC XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	7100 CP 7 TO ILUT 12-15 M REST ROS

/	SMEAR RESULTS IN DPM/100 CM2 STR MIL									(CHAIN LOC)
								RESULTS		
İ	1	< BKG	1	- BKb	1	< BKC-	1	< BKG	1	~ BKG
	٧	× BKG	2	< BKG	2	< BK6-	2	< BK6-	2	< BKG
	3	<bkc-< td=""><td>3</td><td>5 BK6</td><td>3.</td><td>< BKC-</td><td>3</td><td>< BKG</td><td>3</td><td>< BKL</td></bkc-<>	3	5 BK6	3.	< BKC-	3	< BKG	3	< BKL
	4	< BKG	4	* BKG	4	LBKG-	4	< BKU	4	< BKG
	3-	5BKG	5	< BKG	5	5B16-	5	< BKG-	5	< BKG
		,								
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RA - RADIATION AREA

CA - CONTAMINATION AREA

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IV	r	-()	ı

SURVEY NO. N/55-0002

Date 3/28/05 Time 10: 15 AM	DOSE RATE	CONTAMINATION			
Surveyor CRADDOCK	Inst. Type ביא Inst. Type	Beta Alpha	BetaAlpha		
Signature Salolele	Serial No. 95 499	Inst.Sn 97416			
Reviewed Relit Elinnich	βFactor	Eff. 10%			
	BKG FR	Bkg. 30 cpm	cpm		
ARFA 1927 Spe 17	OFEK				

	 7-7-2			
	•			
COMPONENT				
OOM ONLIN				

Gerem THRESHULD -1 DOOR KNOB - 2 BATH FLOOR -3 AIR VONT (OVAD) - 4 BATH ROOR KNUB - 5

RESTRA >BAGD

TOILET GLAZE a PORCHUM
READS 7-8 MR/h
Dun To Vermium on Honium M

RESTRORM AROUS RESTRINTOILET >100 (PM)

>BKGD >100 CPM A FLOOR ZONDAPM

<BKGD < DOCEPM KBKGD ZOKGD

STRM #20 < DOCEPM KBKGD SRM 32

SMEAR RESULTS IN DRM/499 CM ² B = BETA in mRAD/hr/109 CM ²									
NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS
	~BX6	1	ZBKC-	1	~ BKG				
2	< BKC	2	~BKG	2	* BILL				
3,	~ BKC	3,	~BKG	3,	~ BKC-				
4	~BKG	4	<bk6< td=""><td>4</td><td>- BKG</td><td></td><td></td><td></td><td></td></bk6<>	4	- BKG				
5	· BKG	5	< BKG	5	~ BKG				
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RA - RADIATION AREA

CA - CONTAMINATION AREA

ALL DOSE RATES IN µrem/hr

RCA - RADIATION CONTROL AREA

AA - AIRBORNE AREA

N I	00	\wedge	1
IN	SS-	U	1

SURVEY NO. NSS - 0003

Date 3-28-25 ime 8100	DOSE RATE	CONTAMIN	NATION
Surveyor Laman Statt	Inst. Type LUD ADI 19	Beta Alpha	BetaAlpha
Signature amar feat	Serial No. 42972	Inst.Sn 75809	
Reviewed Rules Whoman	β-Factor	Eff. 10 %/0	
	Bockgrand 44 MR/	Bkg. 4/2 cpm	cpm

STARBOARD & + OFFICES A DECK

COMPONENT

								CHIBE	STRUM	RD	
	str 3) 11 2 1	/		/	STR 15		1 STR	Rayu	STR FRSK<	. Z.J im 19
PRSI	K 210	BACKIJOUR	d S	fR9 25/2 <100 25/2 /3KC	Cpu	TOR < B	100411 KEJ	CHING PURSER 13+R FRSK4 DR 61	expii BKG	DR C	146 13/KG 7
		R RESULTS \$			/ B	- BL1A in mKA	Dynr/10	P CM ²	NO.	RESULTS	+
	NO.	RESULTS <	NO.	RESULTS - BKGD	NO.	L BLGD	NO.	< BigD	110.	4 BKGD	1
	1	= BKGD	2	- BKGD	2	-BKGD	2	L BKGD	2	L Brad	
	3	- BKGD	3	LBKGD	3,	- BKGD	3	LBKGD	3	LBKGD LBKGD	-
	5	< BKGD	5-	2 BKGD 2 BKGD	5	LBKGD LBKGD	3-	Z BKGD Z BKGD	5	L BKGD	
											1

RA - RADIATION AREA

CA - CONTAMINATION AREA

ALL DOSE RATES IN µrem/hr

RCA - RADIATION CONTROL AREA

AA – AIRBORNE AREA

DOSE RATE

Inst. Type LIDIND 119

NSS-01

Date 3/28/05 Time

SURVEY NO. NSS-0004

Alpha_

Beta 🔽

CONTAMINATION

Beta

Alpha

Signat	ure outi	W Ac	sett Se	rial No.	+2972	Inst.S	n 75809		
Reviev	ved Salis	19Pin	mal B-	Factor	/	Eff.	10 %		
		,,		ckground	HARMR	Bkg.	40 cpm		cpm
AREA_	3+A-1	2 Box	MD S	STAT	E ROOMS	+ 6	F.DCE	A	PECK
				.					
COMP	ONENT								
				-		P BONA	912		
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							4 OPE	~// F	tatel
							5 VALV	10 K	townkis
			/ -				5 VA (V		
2 i 1	27	, (EREW)	10RSIE	m / 4 4	a Rom	in /		
24K	27 x < 100 < BKG	15	FR58 <		CLEANING ENVILLE	00			
DR	~ BKG		PRSK ZI	100 341	FRSK 41	NG	1//		
	R RESULTS •			\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	BET///n mR/		—— V Э-GM²		
NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS
7	-BKGD	1	L BKGD	1	-BKGD	/	~BKGD		
3 4	LBKGD - BKGD	2 3	< BKGD LBKGD	3	<pre>LBKGD</pre>	234	LBKGD LBKGD		1
4	~ BKGD	4	< BKGD	4	-BKGD	4	- BKGD		
5	LBKGD	9	∠ BKGD	700		5	< BKGD		
				11/2					
				l					

NSS-01

SURVEY NO. NS5-0005

Date 3/18/05 Time 17 10	DOSE RATE	CONTAMINATION	
Surveyor Laman Sult	Inst. Type Ludium 19	Beta Alpha BetaAlpha_	
Signature onew feel	Serial No. 42972	Inst.Sn 75809	
Reviewed Kaliffins	β ⁻ Factor	Eff. 10%	
25	BK6 4.0 MR/m	_Bkg. ЏО срт ср	pm
AREA TO A FORE		_	

AREA	DEEFAS		
\mathcal{L}		H, DECK	BARBON Stays
COMPONEN	IT		

1 - Doct Threshold

2 - Door Handle

3 - Inna Airvert

4 - onter Airvent

5 - Forward S.Mk

6 - AFT SINK

7 - Floor (Aft (mir)

ERSK = 100° DM L BKG

SMEA	R RESULTS	N DPM/TU	U CM ²	8-	BETA in mRA	\D/hr/10(² eM ²		
NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS
1	LBKGO								
2	-BKGD								
3	~BKGD ~BKGD								
4									
5	~ BKGD								
Ŀ	< BKGD								
	~ BKGD								

RA - RADIATION AREA

CA - CONTAMINATION AREA

ALL DOSE RATES IN µrem/hr

RCA - RADIATION CONTROL AREA

AA – AIRBORNE AREA

PILCE

NSS-01

SURVEY NO. NS5-6006

Date 3/28/05 Time /2/0	DOSE RATE	CONTAMIN	NATION
Surveyor Loman Scott	Inst. Type Ludlum 19	Beta Alpha	BetaAlpha
Signature anim Sent	Serial No. 42972	Inst.Sn 75869	
Reviewed Role & Sumah	β Factor	Eff. 10 %	
	BKG 4.0 W.R/h	Bkg. 牛ひ cpm	cpm
AREA B DECK	CREW STATRO	OPA G	
STARBONAN GI	DR	,	
COMPONENT			

- 1- Threshold
- 2- Door Knob
- 3 Bath Floor
- 4- Bath Krob
- 5- Air vent
- 6- Floor in front of 6ath

C Pairs

Charles S

Marin J

(may)

B-17
FRSK LIBO F

NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS
	LBKGD	/	CBKGD	1	~BKGD	7	LBKGD	1	-BKGD
2.	-BKGD	2	4 BKGD	2	- BKQD	2	4 BKGD	2	< BKGD
3	< BK40	3	4 BKGD	3	LBKGD	3,	< BKG0	3	< BKGD
4	-BKGD	4	4 BKaid	4	L BKGD	4_	< BEGD	4	< BKGD
3	LBKGD	5	1 BKGD	5	€ BKGD	_گ	< BKGD	3	< BKGD
6	L BKGD	6	1 BKGD	62	LBKGD	6	< BKGD	6	< BKGD
		•							

RA - RADIATION AREA

CA - CONTAMINATION AREA

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IV	5	-	U	1

1100-01		SURVEY NO. //	<u>' >>-000 </u>
Date 3/28/65 Time // p0/	DOSE RATE	CONTAM	NATION
Surveyor Log AN Sect	Inst. Type/upm DI19	Beta Alpha	BetaAlpha
Signature anciel foot	Serial No. 429 72	Inst.Sn 75809	
Reviewed Coloff unoch	β Factor	Eff. 100/0	
	BKC-4.0MM	Bkg. # cpm	cpm
AREA B DECK	peer + of	Icer Gan	ster
STAR BOAR	& SIDE OU		
COMPONENT			
-			
1 7			
1 - THRESHOLD			
2 - Dour Knows			
3 - BATH FLOOK			
	,		
4 - BATH DownK	¥ 0/3		
5 - AIN VIEWY	_		
6 - FLOOR INF.	nontrof BATH		
, ,		/	
		102 4	/
		Mack	(REON
/	\wedge	16.6.22	Chief
c peu)		FRUNDER S	DUNPTER PY
Q EU		γ' $\alpha = \sqrt{2} \chi$	
			Oldan
1/			/ 0 0
B-35 B-41 FRSK / 100 FRSK /	/B-45	B-49	/R.53
T1(1) / (00) / T1 / 1	B-45 100 ELSK <1.0 KG DM <13 KC	in Coch LIA	O EOSK/10
FRSK 2 100 FRSK 2	100 FRSN 21		- N-27
BM <bkg dm="" td="" zbi<="" =""><td>KG DM ZBKG</td><td>/ PM<td>DIN <bkc< td=""></bkc<></td></td></bkg>	KG DM ZBKG	/ PM <td>DIN <bkc< td=""></bkc<></td>	DIN <bkc< td=""></bkc<>
SMEAR RESULTS **** DPM/100 CM**	•B = BETA in mRA		
NO. RESULTS NO. RESULT			NO. RESULTS
1 CBKGD 1 CBKGD 2 CBKGD 2 CBKGD	/ < BKGD 2 < BKGD	1 LBKGD 2 LBKGD	1 CBKGD 2 CBKGD
3 LBKGD 3 LBKGI	3, LBKGD	3 <bkid< td=""><td>3 KBKGD</td></bkid<>	3 KBKGD
4 LBKGD 4 LBKGI 5 LBKGD 5 LBKGI		4, < BKGD	4 LBKGD
6 - BKGD 6 -BKGD	6 -BKGD	6 × BKGD	6 -BKGD
			•

NSS-01

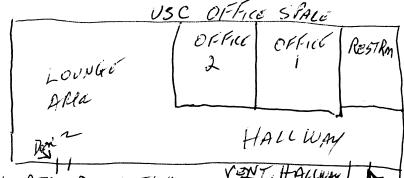
SURVEY NO. NSS - 000 &

Date 3/28/05 Time 1:00 Fm	DOSE RATE	CONTAMINATION		
Surveyor Coddock	Inst. Type LODLUM	Beta Alpha BetaAlpha_	ha	
Signature Colored	Serial No. 95 499	Inst.Sn 97416		
Reviewed July Junus	β Factor 10%	Eff. 10%		
	3K6 JuR/h	Bkg. 30 cpm	cpm	

AREA UNIVERSITY OF SOUTH CAROLINA OFFICE SPACES

B DECK PORT

COMPONENT



- 1. Resolver The Door The Door I Door I Door I Door I Door I Door KNOB # 1
 3. FLOOR of HALLWAY 8. DECK OFFICE 2 N/A
 4. DECK RESTRM 8. DECK OFFICE 2 N/A
 5. DOOR KNOB RM 9. DOOR KNOB OFFICE 2NA 10 THROSHOLD DOOR Z

11. DOOR KNOW TOOK 12. VENT IN LOUNGE 13. VENT OFFICE # 14. VENT OFFICE # 15. VENT RESTRA

USC OFFICE SPACES FRISK < 100 (PM

SMEAR RESULTS -IN DPM/100 CM2-				·B = BETA in mRAD/In/100 CM ²					
NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS
1	-BKGD	6	4 BKGD	11	LBKGD				
:2	LBKGO	7	NA	12	LBKGD				
3	LBKGD	_5_	NA.	13	LBKGP				
4	2 BKGD	9	NA	14	< BKGD				
5	< BKGD	10	LBKGD	15	< BKGD				
						ļ			

RA - RADIATION AREA

CA - CONTAMINATION AREA

NSS-01

SURVEY NO. NS5-0009

Date 3/28/05 Time 1: 30 PM	DOSE RATE	CONTAMINATION			
Surveyor CRADOOCK	Inst. Type Lublum	BetaAlpha BetaAlpha			
Signature Goodool	Serial No. 95 499	Inst.Sn 97416			
Reviewed Rolffelmah	β -Factor 10^{20}	Eff. 1000			
	BKG 4uR/h	Bks cpm 30 cpm			
AREA CREW PANTY	B DECK	PORT			

COMPONENT			

1 THRESHOLD 2- DEOR KNOB

3- DECK 4- VENTILATION 5 DK DRAIN

< BK(FD) < 100 CFM

SMEAR RESULTS #H DPM/499 CM ² B = BETA in mRAD/hir/100 CM ²									
NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS
	< BKGD								
2	< BKGD								
3	< BKGD								
4	LBKGD LBKGD								
5	~BKGD								

RA - RADIATION AREA

CA - CONTAMINATION AREA

NSS-01

SURVEY NO. NSS.

Date 3/29/05 Time 8:00 AM	DOSE RATE	CONTAMINATION			
Surveyor CRASSOCIC	Inst. Type Lup Lum	Beta Alpha	BetaAlpha		
Signature A College	Serial No. 95499	Inst.Sn 97416			
	β Factor jog TE V/A	Eff. 10%			
.,	4 MR/HR BKGD	Bkg. 30 cpm	cpm		

AREA_	STATE RE	oom 34	PORT 6	ADECK	
COMPC	NENT				

- 1 THRESHOLD of DOOR WAY
- 2 DOORKNOB of SRDOOR 3 VENTILATION DUCK
- 4. BATH ROOM DECK
- 5. BATH ROOM DOOR KNOB

DOSE RATE - < BKGD FOR COUNTRATE < 100 CPM (30-40 (PM))

SMEA	SMEAR RESULTS IN DRM/100 CM ² -B - BETA in mrAD/hr/400 CM ²								
NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS
Ĺ	~BKG								
2	< BK6								
3	<bkg< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></bkg<>								
4	CBKG								
5	<bkg< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></bkg<>								

RA - RADIATION AREA

CA - CONTAMINATION AREA

ALL DOSE RATES IN µrem/hr

RCA - RADIATION CONTROL AREA

AA - AIRBORNE AREA

NSS-01

SURVEY NO. NSS-0011

Date 3/29/05 Time S: 30 Am	DOSE RATE	CONTAMINATION			
Surveyor CRADOCIC	Inst. Type Lun Lum	BetaAlpha	BetaAlpha		
Signature achdock	Serial No. 93499	Inst.Sn			
Reviewed Religioner		Eff. 10797416			
· · · · · · · · · · · · · · · · · · ·	Bic 4 MR/h	Bkg. <i>30</i> cpm	cpm		
AREA "B" DECK CERT.	MESS Room +	CERT. LOUNG	i i		
COMPONENT					
Doct		2 27-	2.13		
DOOK FWD		Pook 2	DOOR 3		
#1	# 2	++-	- 11		
	7 2	#	3		
30 CPM	30 cpm	300	in \		
CERT. MESS RI	1		, 1		
,	(2.1.1.7.2.2.7.	(EXI, LO	, in Ge		
3uR/Hz	3uR/HR	2uR	HA)		
		Y			
#1	# 2	#			
THRESHULD	1.THRESTUL	# 3	1 m = 1 / 1 / D		
2. DEER KNOB	2. DOOK KN	DB 1-111X	restloba		
2 MILATION	3. VENTILA		OR KNOB		
4. WATER FOUNTA	#V	·	NT. LATION FTOR FOUNT.AN		
•		4 W/	FIER TEUNIAR		
Skn BACKGOUND 3 WR/H					
- 110/14	, 30 CPM				
KM BACKGOUND 3 4R/HA	30 CPM				
GE BACKGOUND ZUR/HO	C SUCFAI				
AI MESSKM. #2 MES	5 Rm / # 3 200	NG-E			
SMEAR RESULTS - N DPM/100 CM2	B= BETA irr mRA	xD/hr/100 CM²			
NO. RESULTS NO. RESU		NO. RESULTS	NO. RESULTS		
1 = BEGD 1 = B					
2 - GKGD 2 - BK 3 - BKGD 3 - BK	GD 3 - BKGD 4 - BKGD				
4 L BKGP	4 2 B KGO				
1 I					

RA - RADIATION AREA

CA - CONTAMINATION AREA

ALL DOSE RATES IN µrem/hr

RCA - RADIATION CONTROL AREA

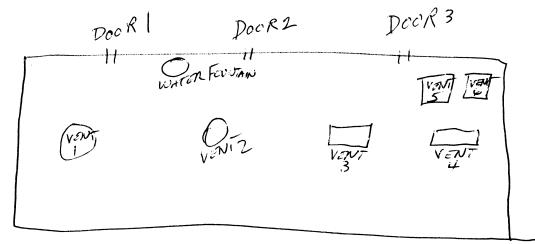
AA – AIRBORNE AREA

NSS-01

SURVEY NO. NSS -00/2

Date 3/29/05Time 9:00 Am	DOSE RATE	CONTAMINATION				
Surveyor PANDOLC	Inst. Type LuDLun	Beta Alpha	BetaAlpha			
Signature Coddock	Serial No. 95499	Inst.Sn 97416				
Reviewed Ra Williamark	β-Factor 10 %	Eff. 10 %				
7	BKG QuR/HX	Bkg. 30 cpm	cpm			

AREA BDECK PORT OFFICERS MESS



1- TARESHOLD DOOR! 2- DEOR KNOB DOOR! 3- VENT 1 4- WATER FOUNTAIN 5- VENT 2 6 THESHOOD DOK 2 7 DOOR KNOB DOOR 2 8-VENT 3 9-VENT 4 10-VENT-5

11. THRESHOLD DOORS
12. DOUR KNOBDOORS
13. VENT 6

DR < 2UR/HR BKGD FAISH < 30 CPM

SMEA	R RESULTS 🗕	N DPM/10	OO CIVI [®]	B -	B = BETA in mRAD/hr/100 €M²				
NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS
1	LBKGD	9	L BKGD						
2	LBKGD	10	< BKGD						
3	2 BKGD	11	< BKGD						
Ч	- BKGD	12	1 BrGD						
5	4 BKGO	13	< 3KGD						
6	~ BKGO								
7	L BKGD								
8	~ BKCD								

RA - RADIATION AREA

CA - CONTAMINATION AREA

ALL DOSE RATES IN µrem/hr

RCA - RADIATION CONTROL AREA

AA – AIRBORNE AREA

NSS-01

SURVEY NO. N.CS - 0013

Date 3/24/95 Time 9:20	DOSE RATE	CONTAMINATION			
Surveyor CRASSOCIC	Inst. Type Luplum	Beta Alpha	BetaAlpha		
Signature Scaldale	Serial No. <i>95</i> 499	Inst.Sn 97416			
	β Factor	Eff. 10%			
	@ DUR/HI	Bkg. 30 cpm	cpm		
AREA B DECK PORTB-8	,	BIHSTATERA, B18	STATE RM		
CLEANING GEAR LOCKE					

COMPONENT_

- THRESHOLD
- 2 DOUR KNUB
- 3 VONTILATION 4 DOCK BATH RAM
- 5 BATHRIM DOOR KNOB

CLEANING GOAR LOCKER

1. THRESHOLD

2. DOER KNOB

3- DECK

4 - VENT

OFFICE 1.THESHOLD 2. DOOR KNOB 3 VENT

FRISHEZO CFIN FRISHEZO CFIN TREZURIAN DR<2 URIHA DR<2 URIHA DR<2 URIHA DR<2 URIHA DR<2 URIHA DR<2 URIHA FRISHEZO CFIN FRISHEZO CFIN FRISHEZO CFIN STATE RM BILL STATE AM B

SMEA	SMEAR RESULTS 4N DPM/100 CM2				* 8 = BETA in mRAD/hr/100 CNP				7.5,72(
NO.	RESULTS	NO.	/RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS		
	< BKGD	Ì	L BKGD	1	~BKGD		L BKGD	J	LBKGD		
2	< BKGD	2	4BKGD	2	4 BKGD	2	L BKGD	2	LBKGD		
3	< BKGD	3	LBKGD	3	< BKGD	3	- BKSP	3	- BKGD		
4	2BKG0	4	LBKGD	4	LBKGD	4	- BKGD				
5	< BKGD	5	LBKGD	5	L BKGD	5	~ BKCD				
			L.				<u> </u>				

RA - RADIATION AREA

CA - CONTAMINATION AREA

ALL DOSE RATES IN µrem/hr

RCA - RADIATION CONTROL AREA

AA - AIRBORNE AREA

NSS-01

SURVEY NO. NSS-0014

Date 3 - 29-05 Time	DOSE RATE	CONTAMINATION			
Surveyor Coddock	Inst. Type LubLum	Beta Alpha	BetaAlpha		
Signature Godlede	Serial No. 95499	Inst.Sn 97416			
Reviewed Roll Grand	β ⁻ Factor 10 %	Eff. 10%			
, ,	JuR/H	Bkg. 30 cpm	cpm		

AREA B DECK L'ONFERENCE RM FAN ROOM LONTOR LINE RIMS COMPONENT 1. THRESHOLD DOOR 1 2. DOOR KAVOB DOOR 1 3. WATER FOUNTAIN S. TARESHOLD DOOR Z 9. DOOR KNOB DOORZ 30 (PM 30 CPM 2UR/HR 2 UR/HR

	CONTRER	ENCE	= KM-	1	IN KM				
SMEAR RESULTS +IN DPM/100 CM2 -				B = BETA in mRAD/hr/100 CM²					
NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS
j	<bkgd< td=""><td>9</td><td>2BKGD</td><td>ì</td><td>LBKGD</td><td></td><td></td><td></td><td></td></bkgd<>	9	2BKGD	ì	LBKGD				
2	< BKGD			2	LBKGD LBKGD				
3	< BKGD			3	LBKGD				
y	< BKQD			4	< BKGD				
5	LBKGD			5	L BKGD				-
6	<bkgd< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></bkgd<>								
1-7	<bkgd< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></bkgd<>								
8	LBKGD								

RA - RADIATION AREA

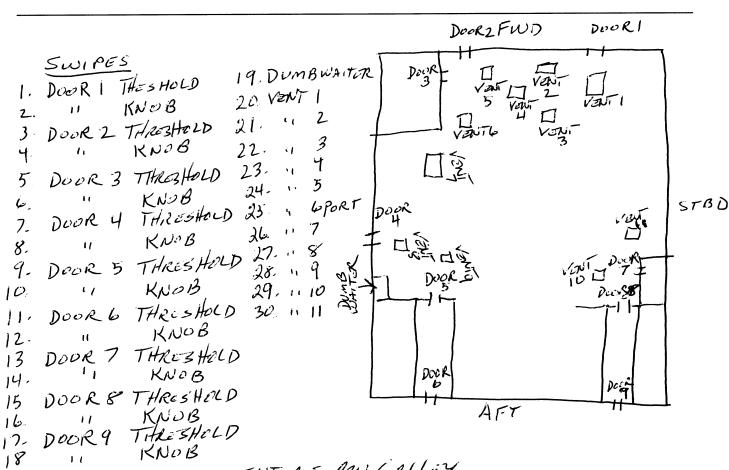
CA - CONTAMINATION AREA

NSS-01

SURVEY NO. WSS - 00/5

Date 3/29/05 Time	DOSE RATE	CONTAMINATION			
Surveyor Craddock	Inst. Type LUDLUM	Beta Alpha	BetaAlpha		
Signature (laddad	Serial No. 95 4 99	Inst.Sn 97416			
Reviewed Rah Te furnant	β Factor HuR/HR	Eff. 10%			
	4uRlit BKG	Bkg. 30 cpm	cpm		
AREA B DECK CENTER	LINE MAIN	GALLEY			

COMPONENT____



D.R. < BKGD ENTIRE MN. GALLEY
FAISK < 100 CPM FOR PRINTERS

SMEA	SMEAR RESULTS IN DPM/160-6M ² B = BETA in mRAD/hir/160-CM ²									
NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	
1	LBKG0	c)	< BKGD	17	<bkgd< td=""><td>25</td><td><bkgd< td=""><td></td><td></td></bkgd<></td></bkgd<>	25	<bkgd< td=""><td></td><td></td></bkgd<>			
2	LBKGD	10	4 BKGD	18	2 BKGD	26	< BKGD			
3	LBKGD	11	LBKGD	19	2 BKSID	27	< BKGD			
4	CBKGD	12	4 BKGD	20	< BKGD	28	LBKGD			
5	< BKGD	13	< BKSD	21	2 BKGD	29	-BKGD			
6	< BKGD	14	LBKGD	22	< BKGD	30	LBKGO			
7	2 B KGD	15	~ BKGD	23	-BKGD					
8	LBKGD	16	L BKGD	2	2 DK40					

RA - RADIATION AREA

CA - CONTAMINATION AREA

	SURVEY NO. <u><i>N</i></u> .	55-0016
DOSE RATE	CONTAMI	NATION
Inst. Type LUDLUM	Beta Alpha	BetaAlpha
Serial No. <i>95</i> 4 99	Inst.Sn 97416	
β-Factor +mR/112	Eff. 10%	
HuR/H BKG	Bkg. 30 cpm	cpm
UTER LINE DIA	IW4 Room	
D PORT	Took J	STBI
	Inst. Type LUDLUM Serial No. 95499 BFactor HMR/HZ HUR/H BKG UTOR LINE DIN D PORT	DOSE RATE Inst. Type LUDLUM Serial No. 95499 Inst. Sn. 97416 BFactor +MR/HF Eff. 10% 4uR/H BKG Bkg. 30 cpm NTOR LINE DINIMY ROOM FWD DOOR DOO

DR < BKGD EWTRE DINING RM FRISKY 100 CPM

SMEAR RESULTS #N BPM/100 CM ² B = BETA in mRAD/hr/100 CM ²									
NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS
	LBKG0	9	-BKGD						
2	LBKGO	10	< B KGD						
3	2 BKGP								
4	LBKGP								
5	LBKGD LBKGD								
6	2 BKGD								
7	< BKGD								
8	LBKGD							I	

RA - RADIATION AREA

CA - CONTAMINATION AREA

ALL DOSE RATES IN µrem/hr

RCA – RADIATION CONTROL AREA AA – AIRBORNE AREA

NSS-01

SURVEY NO. <u>NSS - 00/</u>7

Date 3-24-05 Time 1355	DOSE RATE	CONTAMINATION			
Surveyor Caddock	Inst. Type Lucllum	Beta Alpha	BetaAlpha		
Signature Gaddock	Serial No. 95499	Inst.Sn 97416			
Reviewed Rall Flumon	β Factor 42/H TC	Eff. 10%			
,	4uR/H	Bkg. عر) cpm	cpm		
AREA B Deck Inboard Por	tside skwa	and Laundry			
		/			
COMPONENT					

DR LBRGD FRISKL 100 CPM

SMEA	SMEAR RESULTS IN DRW/100 CM ² B = BETA in mRAD/hr/100 CM ²								
NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS
1	-BKGD -BKGD								
2	< BKGD								
3,	LBKGD LBKGD								
4	LBKGD								
			27100000						

RA - RADIATION AREA

CA - CONTAMINATION AREA

ALL DOSE RATES IN µrem/hr

RCA - RADIATION CONTROL AREA

AA – AIRBORNE AREA

NSS-01

SURVEY NO. NSS-00/8

Date 3.29-05 Time 1345	DOSE RATE	CONTAMINATION			
Surveyor CRASOCIC	Inst. Type Collun	Beta Alpha	BetaAlpha		
Signature Acade de	Serial No. 95499	Inst.Sn 97416			
Reviewed Ra Williams	Brock 4 MR/H	Eff. 10 %			
70000	15116	Bkg. رہی cpm	cpm		
AREA B Deck Co,	RT BARBER Shup	(CRRW)			
COMPONENT					

3 - FLOUR 4 - DOOR KMOR 5 Threshold

D.R. MATER FASK LBKGO FRSK LIOSCPOM

SMEAR RESULTS +IN DPM/499 GM² -B = BETA-in mRAD/lm/199 GM²									
NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS
1	NA								
3	NA								
3	LBKGD LBKGD <bkgd< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></bkgd<>								
4	LBKGP								
5	< BKGD								

RA - RADIATION AREA

CA - CONTAMINATION AREA

ALL DOSE RATES IN µrem/hr

RCA - RADIATION CONTROL AREA

AA – AIRBORNE AREA

NSS-01

SURVEY NO. NSS-0019

Date 3:29-05 Time 0800 -090	DOSE RATE	CONTAMINATION			
Surveyor Loman Scott	Inst. Type Lu D/u m	Beta Alpha	BetaAlpha		
Signature Laman Scott	Serial No. 42972	Inst.Sn 9/037			
Reviewed Rale Fermoch	β ⁻ Factor	Eff. 10°/0			
,	BKG 4.0 WR/h	Bkg. 40 cpm	cpm		
AREA Promonade Dec		MAIN LOUNGE			

COMPONENT

| SWIMMING FOOL DOOD HANDLE PORTSIDE

2 MIDDLE OF DANCE FLOOR

3 CLENING ROOM LOCKER PORTSIDE THROKARD

4 KITCHEN HAND CLEANING SINK PORTSIDE

5 MIENS BAHROOM PORTSIDE HANDSINK

6 PROMENADE THROSHOLD STARBOARD

7 LADIES POWDER ROOM HAND SINK

8 PROJECTION ROOM PORT EXIT DOOK HANDLE

9 FAN ROOM STARBOARD FLOOR

10 FAN ROOM PORT FLOOR

FSKR-2100 | DM- 2 BKB-

SMEA	SMEAR RESULTS IN DPM/100 CM² = BETA in mRAD/hir/100 CM²									
NO.	RESULTS	NO.	FESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	
	4BKGD	9	1-BKGD							
2	LBKGD	10	1 BKGD							
3_	-BKGD									
4	LBKGD									
5	~BKGD					~				
6	LBKGD									
7	LBKGD	4								
<u> </u>	< BKGD	1								

RA - RADIATION AREA

CA - CONTAMINATION AREA

DOSE RATE

NSS-01

Date 3-24-05 Time 0900

RCA - RADIATION CONTROL AREA

AA - AIRBORNE AREA

SURVEY NO. <u>NSS-002</u>0

CONTAMINATION

J		2 5 . 1	D-1-
Surveyor Laman Scott	Inst. Type Lub Lum 19	Beta_V Alpha	BetaAlpha
Signature Laway feat		Inst.Sn 9/037	
Reviewed Kale Mirmon	β Factor	Eff. 10%	
	PKG 498/h	Bkg. 40 cpm	cpm
AREA 130AT DR	ECK /	\ ``	
COMPONENT			
	- 110110		
, OfficERS LOUNGE	THRESholl)		
ACCOCDE DUILIAK	AAHUD SIE		
			A
paficers LOUNG	EVEXT		(6)
officers Lours	GE FIOOR		D,
011162.3			~ (g)
OFFICERS LOUND	RY Floor		ψ
OFFICERS LAUNDA	51 SINK		s
			5
STATERDOMS (OF	ACERS)		ob A
5/4/2/)		$(\lambda \cdot i)$
threshold	N	11	
DOOR KHOD		√√ °4	The Xg/
BAHH Floor HOR BAHN DOOR HO	15\ 1	()	4. Ox
	X /	\frac{1}{2}\langle 2\langle 0	
HK W	Reprint March	() () () () () () () () () ()	Section 8
ELDER LYCHE	5 Y	SA X S	000
o ^V o /	A 07/	6 X	6,
	28 X		1.40
(1)	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	FRSK < 100° X	1 d 1
PS K & 100 cpm FRS 210 DM & BKG DM X BH	100pm FRS - 100	J FRSK < 100 X	FRSK < 100 5
MIRVE IN MIDI	KG-IDM < BKGV	DM < BK6 7	DM < BKG
INI 2 Pro 1D112Bt	PETA in mD	AD/hr/100-CM²	
SMEAR RESULTS AND DPM/100 CM ²	D DETAILITIES	(10)	
	JLTS NO. RESULTS	NO. RESULTS	NO. RESULTS
NO. RESULTS NO. RESULTS NO. RESULTS NO. RESULTS	ULTS NO. RESULTS KGP / CBKGP	NO. RESULTS	1 LBKGD
SMEAR RESULTS IN DPM/100 CM² NO. RESULTS	ILTS NO. RESULTS KGP / CBKGD KGO Z CBKGD	NO. RESULTS / LBKGD Z LBKGD	1 CBKGD
SMEAR RESULTS IN DPM/100 CM² NO. RESULTS NO. RESULTS AND A BIOLOGY A BKGP A BKGP A BIOLOGY A BKGP	ULTS NO. RESULTS KGP / CBKGP	NO. RESULTS 1 LBKGD 2 LBKGD 3 LBKGD 4 LBKGD	1 CBKGD 2 CBKGD 3 CBKGD 4 CBKGD
SMEAR RESULTS IN DPM/100 CM² NO. RESULTS NO. RESULTS A GRAP	JLTS NO. RESULTS KGP / LBKGD KGD Z LBKGD GKGD GKGD KGD KGD KGD KGD KGD KGD KGD KGD	NO. RESULTS LBKGD CBKGO CBKGO	/ LBKGD 2 LBKGD 3 LBKGD 4 LBKGD 5 LBKGD
SMEAR RESULTS IN DPM/100 CM² NO. RESULTS NO. RESULTS / < BKGP / - B 2 < BKGP / - B 3 < BKGP 4 / BKGP	JLTS NO. RESULTS KGP / CBKGD KGD Z CBKGD G CBKGD CBKGD CBKGD	NO. RESULTS 1 LBKGD 2 LBKGD 3 LBKGD 4 LBKGD	1 CBKGD 2 CBKGD 3 CBKGD 4 CBKGD

NSS-01

SURVEY NO. NSS - 002/

Date 3-29 Time 1010	DOSE RATE	CONTAMI	NATION
Surveyor Loman Scol	Inst. Type Lyv lum 19	Beta Alpha	BetaAlpha
Signature Jonas for		Inst.Sn 9/037	
Reviewed Relitering		Eff. /0°/6	
	BKG- 40 William	Bkg. 40 cpm	cpm
AREA OFFICE	RS DECK /	BOAT D	RCK
COMPONENT		V	
OFFICERS	STATE ROOMS		
	STATE ROOMS		
1 Thrishold)		
2 DOOR KNOW	>		
3 BAHA Floor	<u>></u>		
2 pm	Vinh		
4 BAHL DOOR	KNO B		
5 AIR VENT	<u>_</u>		
6 Floor		_	
7 Sink	10	[4	
۱۱۱۱۰۸ /	3 5)/	\mathcal{L}'	/
, &H		4	
J S. S. K	Supplied to the supplied to th		
in the same	1)		
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	/ \\\\/		m/
\forall	γ_{b}	/' /	/ _n
/\l/		\ \	
FRSK < 100 CAMA FRS	LEINGO X FRSK ON	FRSKKIUM	FRSKL POOL
TM & BKG WYND	KEIDUS RIFRSKEIDS	700	TON PKG
		DM < 13KCI	yme isi-o i
NO. RESULTS NO.		D /hr/100 CM² NO. RESULTS	NO. RESULTS
	RESULTS NO. RESULTS -BKGP - L BKGP	NO. RESULTS / / / / / / / / / / / / /	2 <bkgp< td=""></bkgp<>
2 LRKGD 2	LBKGD 2 LBKGD	2 L BKGD	1 5/1/2
3 - BKGD 3 -	< BKBD 3 LBKGD LBKGD 4 LBKGP	3 - BKGP 4 < BKGD	6 - BKGD 7 < BKGD
5 LBKGD 5 4	< BKGD 5 - BKGD	5 L BKGD	
6 LBKGD 6	BKGD 6 < BKGD	4 < BKGP	

NSS-01

SURVEY NO. NSS -0022

Date 3 - 29-09 Time / 3 4	<i>> O</i>	DOSE RATE	CONTAN	MINATION
Surveyor Lopan S	cott Inst.	Type/UD/UM/9	Beta Alpha	BetaAlpha
Signature Lines Lo		al No.4297>	Inst.Sn 91037	
Reviewed Ma Wiffin	non β Fa	actor /	Eff. 10%	
		6 40 ul/h	Bkg. 40 cpm	cpm
AREA NAVIGAT	HON B	RIDGED	rck	
		0		
COMPONENT				
Hamilton 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
1 1/-1	.00			NOT ALL LOCATIONS
1. thrush	1		(-	AKAN IN IEACH ROOM
Z. DOOR	KNOS	•	(//	4/8/2/
	, 1	fari		
3, BAtha	oon 7		, /	
4, Bath	, , , , , , , , , , , , , , , , , , , ,	DAOFK	NOD	
4, 15ATA	100MI			
5, AIR	Vent			
S, HIK	V /2			
6 7/001				
6 4	1.			
7. SIN	R			
	160	En la de	ext plat	FORM RICHT
8 ElEU	ATOK Z	EGUIPTME	in pin	FORM RIGHT
		- WOTMEN	UI DIHTTOI	17 / 67
9 2100		1 1 1 1 1	* /	a Gome Jone Of
		church 120	October	TO WAY
	100	(AP) 00 / 18	V/rek	A LI W DY
ERSK < 100 gr heigh	/25K 2. ()	W. Josk	M/H	B/ KK WW /
DM / RKI	ZEKL G	NEW /BKI	TON LBKI Y	/ Par BKI
FRSK<10097610 FRSK<10097610 DM < BKG DM SMEAR RESULTS IN BRAMA		D-DETA in	D/hr/100 CNA?	DINCIPA
NO. RESULTS NO.	RESULTS	NO. RESULTS	NO. RESULTS	NO. RESULTS
1 CDAGD 7	< BKGD	1 CBKGD	1 LBKGD	Z <bkgd< td=""></bkgd<>
2 6 BKCD 1	L BKGD LBKGD	2 6 BKGD	2 < BKGD 3 < BKGD	6 LBKGD 8 < BKGD
7 (BKGD 3	~ 13 KGD	4 EBKGD	4 LBKGD	3 < BKGD
		6 CBKGD	6 LBKGD	
		V L DNID	P 2 D K40	

page 2 of 2

NSS-01

SURVEY NO. NSS-0022

Date 3-29-05 Time /3:00	DOSE RATE	CONTAMIN	VATION
Surveyor Loman Scott	Inst. Type LuDlum	Beta_	BetaAlpha
Signature Land fraid	Serial No. 42972	Inst.Sn <i>91037</i>	
Reviewed law forman	β Factor /	Eff. 10 %	
	BKG HRURIM	Bkg. 40 cpm	cpm
AREA NAVIGATION	BRIDGE	DECK (Pil	lot House
COMPONENT	MANAGEMENT AND		
	BKG HRURIM BRIDGE	Bkg. 40 cpm DECK (Pin	

1. STARBOARD Threashald 2. STARBOARD DOOR KNOB

3 port threashold

4 PORT DOORKNOW

5. Bridge CENTER Floor 6. BRIDGE GIAB RAIL STARBOARDSIDE FRONT GLASS.

FRSK < 100 cpm

SMEA	SMEAR RESULTS *** DPM/499 GM² .** D= BETA in mRAD/hr/100 CM²								
NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS
1	LBKGD								
2	4 BKGD								
3	~ BKGD								
4	4 BKGD								
5	< BKGD								
6	LBKGD								

RA - RADIATION AREA

CA - CONTAMINATION AREA

NSS-01

SURVEY NO. NSS-0023

Date 3 - 30 - 05 Tir	ne \mathcal{O}_{l}	830	DOS	SE RATE 60 V		СО	NTAMI	INATIO	N		
Surveyor Lom 4			nst. Type	11 V 6 36 V	Beta	Alpha		Beta	A	lpha	
<i>1</i>	w Sc			95499	Inst.Sn	974	94				\dashv
Reviewed (78	7	Factor	NA	Eff.	100/	<u> </u>				
	7000	more	4/18	14.	Bkg.	_	cpm			cpm	
AREA C - 7	SEC	K	REW	CABIM 5			<u> </u>			Орп	<u>'</u>
ANLA V		<u> </u>	KIEW	CHISIM 5							
COMPONENT											
OOM ONEN						·····					
1. Thi	- Lah	-1-0									
1. 1n	i Alexa	or or	-								
2, Da	or K	NOD									
B, BA	46	F100	R								
13/ 13/1	,	, , , , , , , , , , , , , , , , , , ,		!							
4 BA	HI	200	rki	100							
5 Ver	4		_								
. A	- 64	Ma	$\alpha \mathcal{C}$								
	O IN	1- 100	/								
6 PO	O M	Flor	,,_				γ				
W.		1-100	,,_			(<i>%</i>				
6 PO 7 SINH	/			~		(
W.	/					'×'ε					
W.	/				0	, Sign					1
W.	/			Some Some	g	Solver State of the State of th) ,				6
W.	/			Jan Son Son Son Son Son Son Son Son Son So	A A B	OR XX			/		1,00
W.	/			M. Sone	S. S	Se stra		,	/	Ç	100
W.	/			Jan Son Son Son Son Son Son Son Son Son So		S S S S S S S S S S S S S S S S S S S		<u>ل</u>	/	(100
7 SINF	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	CARCA	24.5	Jako Sake	12 / 12 /	,		/ کرا	/	(1,80
7 SINF	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	CARCA	24.5		1/20/2/	,			/	(180/
7 SINF	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	CARCA	24.5		1/20/2/	,		_ (/	/	,	(20)
7 SINF	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	CARCA	24.5		1/20/2/	,		70/	/		1,80/ / 4
7 SINF	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	CARCA	24.5		1/20/2/	,		70/ FRS	KR		1,80/ / 41/
5K < 100 4 < BKG	K S S S S S S S S S S S S S S S S S S S	2) 1 1 1 2 13 KG	S S S S S S S S S S S S S S S S S S S	RSK CIDO	PRS.	K 4 iac 13 KG		_ (/	KARK	100	(e e e e e e e e e e e e e e e e e e e
SK < 100 M < BKG	Y FI	1 RSK 4/00 M 2/3 KG	D S S M	RSK 2100 V CBKG U BETAINMRAE	DH C	K < i ac : i3 K& : cm²-	יי לילי ביאטי	FRS DM<			
SMEAR RESULTS	K S S S S S S S S S S S S S S S S S S S	RSK 4/00 M 2/3/K6 DO CM2 RESULTS	S S S S S S S S S S S S S S S S S S S	ESK 2100 CBKG- BETA in MRAE RESULTS	PRS.	K ZIOC 13 KC CM ² RESULT	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	70/ FRS	RES	SULTS	
SMEAR RESULTS NO. RESULTS 1 - BKGD	NO.	RSK 4/00 M 2/3/K6 DECM?— RESULTS < BEGD	NO.	RSK CIRO CBKG BETA IN MIRAE RESULTS CBKGD	DH C	K LIOC 13 KC EMI ² RESULT L BKG	() () () () () () () ()	FRS DM <	RES ∠B	SULTS	(a) × 1/
SMEAR RESULTS	Y FI	RESULTS RESULTS RESULTS RESULTS RESULTS RESULTS RESULTS	D S S M	ESK 2100 CBKG- BETA in MRAE RESULTS	DH C	K ZiOC 13 KC EM ² RESULT L BKG L BKG	() () () () () () () () () () () () () (10/ FRS DM < 1 2 3	RES	SULTS BKGD BKGD	
SMEAR RESULTS NO. RESULTS 1 - BKGD 2 - BKGD	NO.	RESULTS RESULTS RESULTS RESULTS	NO.	RSK 2100 CBKG- BETA IN INFRAL RESULTS LBKGD LBKGD	DH C	K LIOC 13 KC EMI ² RESULT L BKG		FRS DM <	RES < B < C	SULTS	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\

NSS-01

SURVEY NO. NSS-0023

Date 3-300 Time 1100	DOSE RATE	CONTAMIN	NATION
Surveyor Loman Scott	Inst. Type DURATER	Beta Alpha	BetaAlpha
Signature amail state	Serial No. 95499	Inst.Sn 97499	
Reviewed Ral All man	β-Factor NA	Eff. 10%	
	4MR/Ita	Bkg.30 cpm	cpm
AREA C- DECK CA	CEW CADING		

<u> </u>			
COMPONENT			

1. threshold 2. DOOR KNOB 3. BATH FloOR 4. BATH DOOR KNOB 5. VENT 6. ROOM FlOOR

FRSK4100 DM-BKG

SMEA	R RESULTS ↔	0-CM²→	B = BETA in mRAD/hr/100 GM ²						
NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS
1	< BKGD								
2	4 BKGD								
3	< BKGD								
4	< BKGD				2-mail miles				
5	LBKGD								
U	< BKGD								

RA - RADIATION AREA

CA - CONTAMINATION AREA

NSS-01

SURVEY NO. NSS-0024

1100 01		001(VE1 1(0. <u>7-1</u>	55 - 55 /
Date 3-30-05 Time	DOSE RATE	CONTAMII	NATION
Surveyor Laman Scott	7776-301	Beta / Alpha	BetaAlpha
Signature ou a Scatt	Serial No.95499	Inst.Sn 97416	
Reviewed La W. Permanh	B Factor NA	Eff. 10 %	
	4hR IHA	Bkg. 30 cpm	cpm
AREA C DECK - N	ACHINE JOAD	ING PASSASI	ϵ
COMPONENT			
PORT- MACHINE lend	Bow		
PORT- MACHINE land (CREW) AREA	13000		
Floor ENGINE ROOM I ElEVATOR Floor			
ELEUMIOR FLOOR			
FlOOR ENGINE ROO	m Access		
Floor		1 1	
11000			
	BAT Row		
1 1	1 TO ENG 1	Dow	
	Rr	- CM -	
ام امود			STAR
O et		I WIN	STARBOA
POR!	(A)	(D) (L)	

13 - FLOUR 14 - DOOR HAMPLIR BATRA

FRSK < 180 DM < BKG

SMEAR RESULTS IN DPM/100 CM ² -B = BETA in mRAD/hir/100 CM ²							CM ²		
NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS
8	LBKGD - BKGD								
9									
10	< BKGD								
//	4 BKGD								
/2	4 BKGD								
13	< BKGD								
14	~ BKGD								

RA - RADIATION AREA

CA - CONTAMINATION AREA

NSS-01

SURVEY NO. NSS-0025

		30Z	<u> </u>
Date 3.30.05 Time 10.45	DOSE RATE	CONTAMIN	NATION
Surveyor Craddock	Inst. Type Lodlom	Beta Alpha	BetaAlpha
Signature Signature	Serial No. 95499	Inst.Sn 974/4	
Reviewed Rale & Comman	& Factor YuR/11 BKG	Eff. 10 %	
		Bkg. 30 cpm	cpm
AREA C DECK STOR	ترهای همریم	COL Room (FA	RE EXTINGUISITES
COMPONENT			
20 1	Piping for		

# 1 Throbuld # 2 doorknob # 3 decic (from r) # 4 dest (REAR)	000000000000000000000000000000000000000	Piping & COL Extin	2000000 STATUTE 000000 STATUTE 000000
LBKGD DR	0000000	(3) i(1) Dear	0000000000

SMEAR RESULTS IN DRM/100 CM2					-B = BETA in mRAD/hr/100 CM ² *				
NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS
ì	LBKGD								
2	LBKGD								
_3	< BKGD								
4	LBKGD								
				l					

RA - RADIATION AREA

CA - CONTAMINATION AREA

ALL DOSE RATES IN µrem/hr

RCA - RADIATION CONTROL AREA

AA – AIRBORNE AREA

NSS-01

SURVEY NO. NS5-0026

Date 3 30 05 Time 10.30	DOSE RATE	CONTAMIN	IATION
Surveyor Craddock	Inst. Type Luchlon	Beta Alpha	BetaAlpha
Signature Marketonk	Serial No. વડ પુલ ૬	Inst.Sn 97416	
Reviewed Ruly Furnant	β Factor 4 BS	Eff. 10070	
	BKG 4 WR/ha	Bkg. 3ე cpm	cpm

AREA C	DECK	PORT	31DE				
			AFT	OF MACHINE	KOHPIMC	PASSAGE	
COMPONEN	τ						

- 1. Threshold
- 2. Door Hundle
- 3. Buth Floor
- 4. Bath Door Hondle
- 5. Air Vent
- 6 Main Floor
- 7. sink

	<u> </u>	24
DRY BK	Gs I)
18/K 100	C	المرا

018 18KG3

Geir 4BK6D < 100 CPM

ż	. /					
.TS	NO.	RESULTS				

SMEAR RESULTS IN DPM/100 CM2					-B = BETA in mRAD/III/100 CM ² -				
NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS
	LBKGD	İ	< BKGD	1	4BKGD				
_3	-BKGD		< BKGD	6	~ BKOD				
3	-BKGD	3	< BKGD	7	<bkgd< td=""><td></td><td></td><td></td><td></td></bkgd<>				
14	L BKGD	4	< BKGD						
5	< BKGD	5	< BKGD						
<u>l</u> c	< BKGD	Ų	4 B KGD						

RA - RADIATION AREA

CA - CONTAMINATION AREA

ALL DOSE RATES IN µrem/hr

RCA - RADIATION CONTROL AREA

AA - AIRBORNE AREA

NSS-01

SURVEY NO. NSS - 002 7

Date 3/70/05 Time 11:00	DOSE RATE	CONTAM	INATION				
Surveyor (xaddock	Inst. Type Ludlum	Beta Alpha	BetaAlpha				
Signature Juldale	Serial No. 95449	Inst.Sn 97416					
Reviewed Kall Wurnigh	β ⁻ Factor /	Eff. \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \					
	BKG 4 NR	Bkg. 30 cpm	cpm				
AREA C-DECK ST	ARBOARD S	DE					
AFT OF MACH	LOADING PASSAGE.						
COMPONENT							
		_) ,				
1. THRESholD 2, DOOR HAND		$\mathcal{U}_{\mathcal{C}}$					
	10	Y	KK.				
2, DOOR HAND	1/4	K	າ ໌				
3. BAHL Floor	-	/ours	•				
3, BATH +10.	,	λ,					
4. BATh Dool	hANDle	100					
4 BAIR D	•	1/2					
			1				
5, AIRVENT 6. MAIN CABIN 7. SINK WOO	1 F/00 (V)	K	[-				
6. MITTIN CADIN	S. S.	χ'	LANE SALANES				
7. SINK WOOD		(/	ξ)				
		\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	N N N N N N N N N N N N N N N N N N N				
58	XX						
10 PM	Contraction		$\mathcal{L}(\mathcal{V})$				
,CXX	, Q*/	14/	7				
% /	$\mathcal{O}/$	$\Psi/$	$\langle \mathcal{O} \rangle$				
`/	\\	m/	\sim				
2 2 BKG / 2 BKG	, / ,	× /) /				
12 100 cpm 1 / 2 BKG	X/ < BKG 1	ZBKG	:/ /				
LIOSLAM	CI/ LIVECAM U	1 LIDOLPM					
SMEAR RESULTS IN DPM/100 CM ²			NO. RESULTS				
NO. RESULTS NO. RESULT / < BKGD / < BKGD		NO. RESULTS ABKGD	NO. RESULTS				
01-72	2 LBKGD	2 LBKGD					
2 -BKGD - LBKGD 3 - BKGD - LBKGD 4 - BKGD - LBKGD 5 - BKGD - CBKGD		6 LBKGD					
	2 5 - BKGO						
6 KBKGD 6 LBKG	6 < BKGD						

NSS-01

SURVEY NO. NSS-0028

Date <i>3-30-65</i> Time	DOSE RATE	CONTAMINATION			
Surveyor R PANNAN/ J-STOURY	Inst. Type will meter	Beta Alpha	BetaAlpha		
Signature Ro Wy Rumh	Serial No. 95469	Inst.Sn 9 1039			
Reviewed // In I	β ⁻ Factor —	Eff. 10%			
	D.R. BKG 24 N/h	Bkg. 430 cpm	cpm		
AREA ENGINA Proom U	pper Louising To !				
	//				
COMPONENT					

SEE ATTACHED DRAWING

DR L BKG TRISH Z BKG

SMEA	R RESULTS 4	N-DPM/10	o em²	B - BETA in mRAD/hr/100 CM ²					
NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS
1	∠BKG ∠BKG ∠BKG ∠BKG								
2	L BKG								
3	-BKG								
4	~ BKG								
3	4 B & G								
6	L BKG								

RA - RADIATION AREA

CA - CONTAMINATION AREA

ALL DOSE RATES IN µrem/hr

RCA - RADIATION CONTROL AREA

AA – AIRBORNE AREA

Fine (3) hashes

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NSS-01

SURVEY NO. NSS-0029

Date 3-30-05 Time	DOSE RATE	CONTAMINATION							
Surveyor R PENNER / J STURRY	Inst. Type UR MATHIL	Beta Alpha	BetaAlpha						
Signature Re l'He Surnoch	Serial No. 95 469	Inst. Sn FRISHER 91039							
Reviewed // N	β ⁻ Factor —	Eff. ~ 10°%							
	D. R BKG < 4 MR/h	Bkg. ∠ 30 cpm	cpm						
AREA ENGINE ROOM VIENA LIEVAL									

, ,, ,	**	
COMPONENT_		

SEE ATTACHAN DRAWING

DR LBKG FRISK LBKG

SMEA	R RESULTS 4	N-BRM/10	10 GM²	B BETA in mRAD/hr/100 CM ²					
NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS
1	LBKG	Ŷ	LBKG	17	2 BKG	25	< BKG	-	
Ž	1 BKG	10	LBKG1	18	2 BKG	26	~BKG		
3	< BKG	11	~ BKG	19	1 BKG	27	~ BKG		
4	LBKG	12	L BKG	10	CBKG.	28	< BKG		
5	~ BK9	13	< BKG	21	LBKG	29	LBKG		
L	2 BKG	14	4 BICG	22	LBKG]			
7	L BKG	15	L BKG	23	NA				
Q	LBKG	16	1 BKG	24	LBKG	Ī			

RA - RADIATION AREA

CA - CONTAMINATION AREA

ENGINE ROOM- UPPER FORT

March (-BUUL WWW 5 WC (B) (B) AIR OMF (17) HP FURT FURF LP なって 76 (2) CYCLO THERM

REACTOR CONTROL

Ν	\sim	\sim	\sim	
1/1	5	. ` -	. 1	1
		v)-		

SURVEY NO. NSS-0030

	100 01 001(VET 140: 140 3 000)									
	Date	3-300 jime	= //	30	DOS	E RATE		CONTAI	MINATIO	N
	1	yor Loma		COTT	Inst. Type ∠	uplum	Beta_ ≥	Alpha	Beta_	Alpha
	Signa	(1	, V			42972	Inst.S	n 97416		
	Revie	wed Ralg	Fin	nuch	β ⁻ Factor	MA	Eff.	10%		
				Į.	3KG 4	uR/H	Bkg.	<i>30</i> cpm	1	cpm
	AREA		ECK		11/10/		CRA	ERS FO	R	****
	1	REATH	IN 6	TP	PARA	2745				
	COM	PONENT								
	DORT LIDOR HANDLE Z. INSIDE LOCKER SHED GRES GRES GRES LOCKER LIDORD KINDER LOCKER SHAR BOAR SIDE SIDE									
LBKG 1 L 100 C1	BKGD DR. 100 CPM FRISK A A A									
	SMEA	R RESULTS 4	N-DPM/16	00-CM²		BETA in mR/	, \D/hr/10	0 GM²	1	
	NO.	RESULTS	NO.	RESULTS		RESULTS	NO.	RESULTS	NO.	RESULTS
	7	4 BKGD	2	< BKGD	7	<pre> /br></br></pre>	2	4 BKG		
	<i>-</i>	LBKGD		< BKGD		~ DAUD		< BKG		

RA - RADIATION AREA

CA - CONTAMINATION AREA

NSS-01

SURVEY NO. NSS-003/

Date 3-30-05 Time 9:20 Am	DOSE RATE	CONTAMINATION			
Surveyor RONS E PRIMICA	Inst. Type N/	Beta_	aAlpha		
Signature Rolf Firmsh	Serial No.	Inst.Sn 75869			
Reviewed Mhw	β ⁻ Factor	Eff. 16%			
		Bkg. <i>30</i> cpm	cpm		

AREA	BOTTOM	DAPIN	OF EX,	4AUST	VERNY	To	TOP OF	MAST	
" A	"DECK	IM FROM	TOF #	£4 HO	LD Cor	1817			
COMPONE	NT								

FRISHAR Z BKG

1 VALUE RETARCTOR (INSME)
2 VALUE BODY (INSIDE)

SMEA	R RESULTS -	IN DPM/10	0 OM ²	₽ =	BETA in mRA	\D/hr/100	CM²		
NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS
1	< BKGD								
2	LBKGD								
3	< BKGP								

RA - RADIATION AREA

CA - CONTAMINATION AREA

ALL DOSE RATES IN µrem/hr

RCA - RADIATION CONTROL AREA

AA – AIRBORNE AREA

NSS-01

SURVEY NO. NSS - 0032

	SURVET NO. 10	33 003 X
DOSE RATE	CONTAMI	NATION
Inst. Type/up/um 19	Beta Alpha	BetaAlpha
Serial No.42972	Inst.Sn 91037	
β Factor	Eff. 100/0	
BKG 4/1 AH	Bkg. 40 cpm	cpm
ien Rooms - (C)e/K	
PORT		12
Grave 2		
	(8)	Racks
Wosher L	10 10 10 10 10 10	
\	Diyer	
	(Press	machine).
	Main	he ! (Machine)
		(
1 marches		(0)
2 000001101		
\mathcal{L} \bigcirc	- AA 1] [/
(Fres	* Machine	,
(OO) (free)	* Machine	,
(OO) (free	* Machine	,
(OO) (fire)	* Machine	,
	Inst. Type/up/um/19 Serial No.42972 BFactor BKG 4/A AH Nen Roams - () Wusher	DOSE RATE Inst. Type/w/wm/9 Serial No.4/2972 Inst. Sn 9/05 7 BFactor BKG 4/A PH Bkg. 40 cpm Nen Roams - Deck PORT Wisher HUMDRY Dryer Press Main.

PRISK < 100 cpm DR < 4 per/m

SMEA	R RESULTS +	N-DPM/40	e cm²	8 = BETA in mRAD/hr/100 CM ²					
NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS
1	-BKGD	4	< BKGD						
2	< BKaD	10	LBKGD						
3	< BKGD	jΙ	< BKGD						
4	< BKaD	12	- BKGD						
5	~ BKGD								
6	4 RKGD								
1	< BKGD								
4	LBKGD								

RA - RADIATION AREA

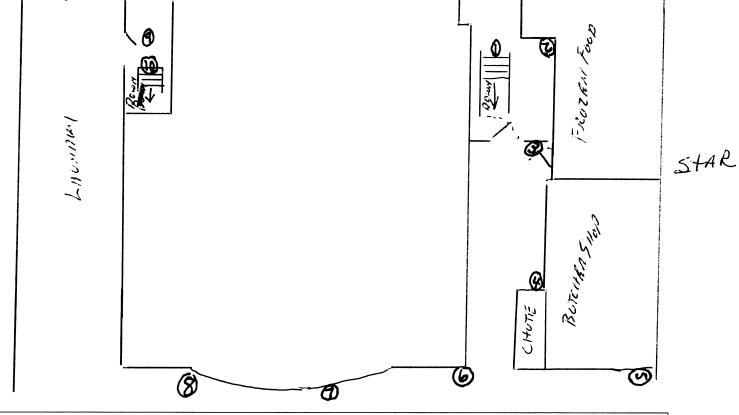
CA – CONTAMINATION AREA

NSS-01

SURVEY NO. NS5-0033

Date 3-3/ Time 0.800	DOSE RATE	CONTAMIN	NATION
Surveyor (AMAN SOUTT	Inst. Type LUDIUM 19	Beta_VAlpha	BetaAlpha
Signature auction Scart	Serial No.42912	Inst.Sn 9/037	
Reviewed //a W191 muroch	β Factor	Eff. 10%	
	BKG4MR/h	Bkg. 440 cpm	cpm
AREA C-DECK PORT	4 STANBONAD PASSA	ways	
		/	
COMPONENT			

Bow



SMEA	R RESULTS 4	IN DPIVITO	U CIVI ²	8=	BETA in mR/	\D/hr/100	CM²		
NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS
	~ BKGD	G	-BKGD						
2	LBKGD	10	4 BAGD						
3	4 BKGD								
4	4 BKGD								
ع ا	< BKGD								
6	LBKGD								
7	~ BKGD								
8	4 BKGD								

RA - RADIATION AREA

CA - CONTAMINATION AREA

ALL DOSE RATES IN µrem/hr

RCA - RADIATION CONTROL AREA

AA – AIRBORNE AREA

NSS-01

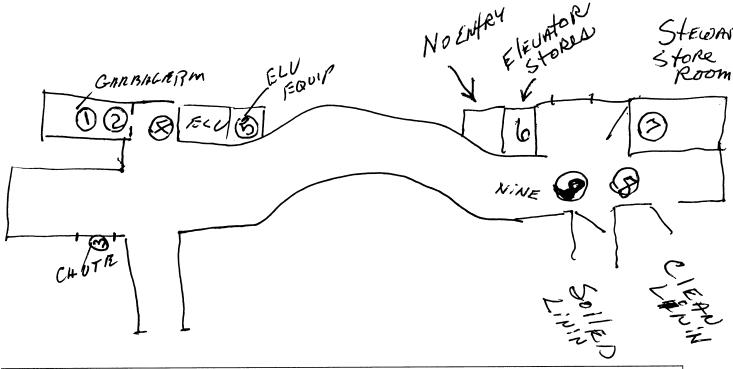
SURVEY NO. NSS - 0034

Date 3-3/05 Time 0800	DOSE RATE	CONTAMIN	IATION
Surveyor Jaman Scall	Inst. Type Duratec	Beta_ V Alpha	BetaAlpha
Signature Jaman Scatt	Serial No <i>G 5</i> 4 9 9	Inst.Sn 97416	
	β-Factor	Eff. /0 %	
	BKO- 4MR/h	Bkg. 40 cpm	cpm
7 7 1/1 1/2	1/ //	1 /	

JASAREA DECK C - HALLWAY & LAUNDRY

COMPONENT STORES LOADING PASSAGE

0 = 7/00R



SMEAR RESULTS 1N DPM/100 CM2				8-	· BETA in mR/	\D/hr/100	- CM²-		
NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS
/	2BKG0	9	< BKGD						
2	4 BKGD								
3	LBKGD								
4	< BKGD								
3	- B KGD								
6	< BKGO								
7	<bkgd< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></bkgd<>								
8	~ BKOD								

RA - RADIATION AREA

CA - CONTAMINATION AREA

NSS-01

SURVEY NO. NSS-0035

Date 3-31-05 Time //:00	DOSE RATE	CONTAMINATION			
Surveyor BOB PAMMOCK	Inst. Type MR MIETRIK	Beta/_ Alpha	BetaAlpha		
Signature Rollet Permork	Serial No. 95469	Inst.Sn 9/037			
Reviewed W.	β ⁻ Factor —	Eff. ~ 10%			
	BKG 2 MR/h	Bkg. 30 cpm	cpm		

AREA		
COMPONENT	SOURCE RECIPIT	
	DR & BKG	
5 MI=11185	FILSK & BHG	
1 Sounce CAM		
2 To 99 CASIE		

SMEA	R RESULTS 4	N-DPM/10	e em²	8-	BETA in mR/	\D/h r/10() €M²		
NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS
1	& BKG								
- 人	< MDA								
3	< BK6								
4	L BKG								
5	5 BKG								

RA - RADIATION AREA

CA - CONTAMINATION AREA

ALL DOSE RATES IN µrem/hr

RCA - RADIATION CONTROL AREA

AA – AIRBORNE AREA

NSS-01

SURVEY NO. NSS - 0036

Date 33/05Time 08/10	DOSE RATE	CONTAMINATION			
Surveyor Loman Scall	Inst. Type/up/une/9	Beta_V Alpha	BetaAlpha		
Signature oman fest	Serial No. 42972	Inst.Sn 9/037			
Reviewed Raley & Commont	β-Factor / /	Eff. 10%			
<i>U</i>	BKGAR/hr	Bkg. <i>40</i> cpm	cpm		

AREA NAVIGATION DECK

COMPONENT EMERGENCY GENERATOR ROOM

#13 TELEPHONE Diesel Micstiny nouse Generator Port Machine, 3 Wexmy have maching Starboard $(\infty$ # GRAB 8 BAR #10 DOCR I out to Nav. Deck HANDLE CONTAINS
PRASTURE MACKINE #11 GraB Battery Roum

SMEA	R RESULTS 4	N-DPM/16	o CM²	*B = BETA in mRAD/hr/100 CM ²					
NO.	RESULTS	NO.	RESULTS	NO.	. RESULTS	NO.	RESULŢS	NO.	RESULTS
1	< BKG-	69	~BKGD						
2	~ BKG	10	~ BKGD						
3	< BKL	//	LBKGD						
4	4 BKG	12	- BKas						
5	~ BKC	13	~ BKGD						
Û	~ 13KG								
7	- BKh								
8	< AKG								

RA - RADIATION AREA

CA - CONTAMINATION AREA

ALL DOSE RATES IN µrem/hr

RCA - RADIATION CONTROL AREA

AA - AIRBORNE AREA

NSS-01			St	JRVEY NO	<u> </u>	-003/	
Date 3/3//65 Time	DOS	SE RATE		CONTAI	MINATIO	NC	
Surveyor Loman Scott	Inst. Type	uplum 19	Beta_	Alpha	Beta	aAlpha	
Signature Laman Asset	Serial No.	+2972	Inst.Si	91037			
Reviewed By W/11 much	-β=Factor/	/ /1	Eff.	10%			
	BKG 4	LAR/h	Bkg.	<i>40</i> cpm	1	cpm	
AREA Forces Lobb	4 LHS	H4	TO R	PAULIC	Ec	UPMEN	17
	<i>'</i>		PIA	TFORIV	\ <u>'</u>	•	-
COMPONENT B-DEC	<u>K</u>						
							<i>\i</i>
Por	~~					 13	
Temp bo Thange i	(1)		controls for 1204 Hydrolizs.	Elec. Junction Boxes		1 ' ' '	7000 7000
	(Z)		K .	X		PIPE TOP TANDLES ON Reator space vent (ontrol)	has die
Co & Telephone			R	3 D		ON TEMP GAG	
	60 M			2			
SMEAR RESULTS IN DPM/100 GM²		BETAIR MRA					
NO. RESULTS NO. RESULT		RESULTS	NO.	RESULTS	NO.	RESULTS	
Z LBKGD 10 LBKGD							
3 - BKGD						<u> </u>	
4 -BKGD							
6 -BKGD							

RA - RADIATION AREA

CA - CONTAMINATION AREA

ALL DOSE RATES IN µrem/hr

RCA - RADIATION CONTROL AREA

AA - AIRBORNE AREA

NSS-01

SURVEY NO. NSS - 0038

Date 3-31-03 Time 0945	DOSE RATE	CONTAM	INATION
Surveyor Loman Scott	Inst. Type/up/um 19	Beta Alpha	BetaAlpha
Signature Lamas Scott	Serial No. 42972	Inst.Sn 9/037	
Reviewed Palite unah	β -Factor	Eff. /0°/8	
	BKG 4MR/hr	Bkg. 40 cpm	cpm
AREA B DECK	1,7,7,7		
		FR3K <	100 cpm
COMPONENT CREW LA	WNDRY	DM 24.0	MR/h
* 1>0+	40.74		out Lkr
Lighting Load Courter	Crew Laundry	Cleaning Fe	LKr
panel (5)	۶	1121	` _
Trans.	THE SERVICE	71 143/1	\v \
to: we i Line A Line and I live a	一度系图	4	Shelve
		7 7	THE STATE OF THE S
	NA NA CONTRACTOR AND	2 terreson	M / +
Panel	* \	7 3	(3) t = 3
1 Jane	•		~ 9/1°
	\sim		\mathcal{L}
	<u> </u>		
*Starboard	Astorboard		
SKZ IDDUMI.			1 20
	=1 Floor =2 SINK BASIN	1 #17	weshale
		112 "	DOOR KNOW
/ / / / / / / / / / / / / / / / / / / /	= 3 INSIDE WAShER		
3 Floor / #	+ 4 INSIDE	#3.	SINK
3 DOOR HANDLY	DRYER	111	HOOR
J FOMINDIE/ +	+ 5 Das A		
4 TOP MIDDLE + 5 PANNEL FRS, DM	KNOS	H 5	ShEIF
5 MAIN) / FRS	K = 100 cpm	4	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
DM	24.0 MA/h		
SMEAR RESULTS IN DPM/100 CM	B - BETA in mRA I	D/hr/100 CI M ²	
NO. RESULTS NO. RESULT		NO. RESULTS	NO. RESULTS
1 <bkgd <="" td=""><td>2 LBKGD</td><td>1 LBKGD</td><td></td></bkgd>	2 LBKGD	1 LBKGD	
2 -BKGD 3 -BKGD 4 -BKGD 5 -BKGD	3 LBKGD	3 LBKGD	
4 LBKGD 5 LBKGD	4 - BKGD 5 - BKGD	4 <bkgd E <bkgd< td=""><td></td></bkgd<></bkgd 	
	5 5000	5 -0~0	
 	 		

RA - RADIATION AREA

CA - CONTAMINATION AREA

ALL DOSE RATES IN µrem/hr

RCA - RADIATION CONTROL AREA

AA – AIRBORNE AREA

NSS-01

SURVEY NO. NSS - 0039

1433-01					
Date 3/31/05 Time	DOSE RATE	CONTAMINATION			
Surveyor CraddeclC	Inst. Type LUDLUM	Beta Alpha	BetaAlpha		
Signature Widdock	Serial No. 95'499	Inst.Sn 97416			
Reviewed	β ⁻ Factor off	Eff. 10%			
	2,5 25 mR/HR	Bkg. <i>30</i> cpm	cpm		
AREA FAN ROOM BO	AT DECK				

COMPONENT LBKG LBKG L low CPM < BKG 1 looc PM LIOU CPM FWD FWD FAN RM < BKGD < icecom MACHINGRY MACHINERY CASING (ASING < BKGD < 100 CPM FANRM BOAT DECK PROMENADE DEKK MACHINERY CASING SACE DECK SWIPES SWIPES 1. VALVE DEVIO 1. DOORI 3. HANDRAIL BESIDE LOTK 2. VALVE LE TOP3 STANTE VALVE MOVED 4 DOORTO BILLE DOVIZED + MCVII VALUE 2. DOOR 2 opposite LOTK 3. THRESHOLD 1 14, 10. MCV 12 VALVE BELOW LOTTE OPPOSITE #13 SWIFE 4. THRESHOLD 2 5. DCV300VALVS 6 GRATINGTOP STOPS 1, HAND HOLD OFF STAIR WAY DNIVALL 17 5. HAND HOLD CASING MACHINERY MACHINERY CASING MACHINERY 17 SMALL HAND GRABON 7 HANDRAIL MACHINERY CASING BOAT DK.

SMEA	SMEAR RESULTS #N DPM/100 CM2 B = BETA in mRAD/hr/100 CM2									
NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	
	4 BKGD	1	4BKGD	8	~ BKGD	13	LBKGD			
2	2 BKGD	2	4 BKGD	9	L BKGD	14	- BKGD			
3	~ BKGD	3	4 BKGD	10	4 BKGD	15	L BKGD			
4	< BKGD	4	L BKGD	14	4 BKGD 4 BKGD	1/2	< BKGD			
		<u>5</u>	LBKGD LBKGD	15	2 DEGD		CDEGD			
		7	- BKGV							
			Die							

RA - RADIATION AREA

CA - CONTAMINATION AREA

NSS-01

SURVEY NO. NSS-0039

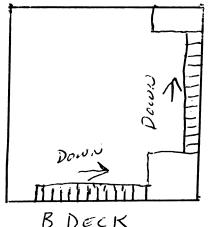
Date 3/31/05 Time	DOSE RATE	CONTAMINATION			
Surveyor Craddock	Inst. Type LUDLUM	Beta Alpha	BetaAlpha		
Signature and alocal	Serial No. 95499	Inst.Sn 97416			
Reviewed	β Factor out	Eff. 10%			
	2.5 25mR/M	Bkg. <i>30</i> cpm	cpm		

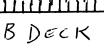
AREA BDECK TO CDECK ACCESS STAIRWELL TO BOAT DECK THRU MACHINERY CASING SPACE FROM MAIN MACHINERY RM

COMPONENT

LOKG Z100CPM

LBKG L100cpm





C DECK

SW. PES 18. Top STOP \$0 GRV. TK 19, 380 STOP FROM BOTTOM OF BDK. 20, LANDING B DECK

SWIPES

22, HANDRAIL STRB 23, HANDRAIL PORT

24- BOTTOM STEP CD

STAIRWAY BDECK

21, LOV TVALVE

STAIRWAY C'DECK

SMEAR	R RESULTS	IN DPM/16	0 CM²	8 -	-BETA in mRA	D/hr/100	O CM ²		
NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS
18	~BKGD			22	-BKGD				
19	< BKGD			23	< BKGD				
20	L BKGD			24	< BKGD				
Q1	- BKGD								
		/							
		<i></i>						I	

RA - RADIATION AREA

CA - CONTAMINATION AREA

NSS-01

SURVEY NO. NSS-0040

Date 3-31-05 Time 0930	DOSE RATE	CONTAMINATION				
Surveyor Com AN S GOT	Inst. Type Lu D/um 19	Beta_	BetaAlpha			
Signature Lomas Scott	Serial No. 42972	Inst.Sn 9/037				
Reviewed Roll Townsh	-β=Factor /	Eff. 10%				
	BKG 4/1R/ha	Bkg. 40 cpm	cpm			

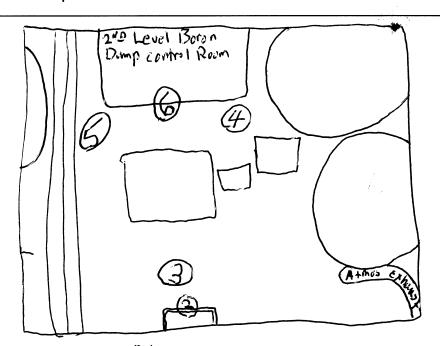
AREA BEHIND BRIDGE

COMPONENT BORON DUMP CONTROLL ROOM

#1 threshold sts #2 LADDER JUS

FRSK < 100 DM < 40





- 1. Threshold of door
- 2. Rung of stairs down to Scient Lewil of control Room

6 HONEYWELL MACHINERY CONTROLLS

SMEA	SMEAR RESULTS IN DPM/100 CM² B = BETA in mRAD/hr/100 CM²								
NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS
1	LBKGD								
2	4BKGD					ļ.,			
3	- BKGD								
4	-BKGD								
5	4 BKGD								
6	< BKGD								
						<u> </u>			

RA - RADIATION AREA

Door to Dark onthine

CA - CONTAMINATION AREA

ALL DOSE RATES IN µrem/hr

RCA - RADIATION CONTROL AREA

AA - AIRBORNE AREA

N.S. SAVANNAH

SURVEY NO. NSS-0041 RADIOLOGICAL SURVEY

NSS-01 Date 3 3/05 Time /300 CONTAMINATION DOSE RATE Beta_____ Inst. Type is to lien 19 Alpha_ Beta Alpha Serial No. 42972 Inst.Sn 9/03/ Signature Eff. 8-Factor Reviewed Bkg. cpm cpm Workstation COMPONENT

Bow Stuirs to # 6 WNDER STEPS 7 inside SINK Below Counter 9 Diman

SMEA	SMEAR RESULTS IN DPM/100 CM ² B = BETA in mRAD/hr/100 CM ²								
NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS
	< BKGD	9	LBKGD						
2	~BKGD	10	< BKGD			ļ			
3	- BKGD		< BKGD			.		-	
cf	4 BKGD	12	-BKGD						
3	< BKGD								
6	L BKGD								
7	4 BKGD								
8	< BKGD					1			

RA - RADIATION AREA

CA - CONTAMINATION AREA

NSS-01				SU	RVEY NO	<u> </u>	-004/	
Date 3-3/05 Time	1300	DOS	E RATĘ		CONTAI	MINATIC	N	7
Surveyor Lam Al	V Scott	Inst. Type	UD/UM 19	Beta	Alpha	Beta	Alpha	
Signature Julia	V feet	Serial No.4		Inst.Sn	91037			
Reviewed Kuling	Kenneh	βFactor	·	Eff.	100/0			
		BKG1	MR/Ite	Bkg.	/ <i>O</i> cpm	ו	cpm	
AREA 1-(c)d	#5 Eng	(NERINO	(ottile o	mil s	torenx)			
COMPONENT	M-5\$	DA	- Equ	1197	R	oon	l	
				B	acel .			_
				Z san i i	Drawers (5) F	ile (ab	J Desk]	Į
				Binch i		~~		S. G
			Demang Co		Desk	(3)		一大
								Dev
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			Small Rishic wills	si m			[3]	
			2 morning		(i)		CARA.	
			will be		(4)	,		
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		70	+ 🤿			`	t 89	
		To Storage	8			<u> </u>	700	
FRSK 210 DM <1 p	1) cpm	33			Б		110	
KSK =10							\triangle	-
$DM \leq I \mu$	R/h			_ '	- Shawis	bob		
						, <u> </u>		1
SMEAR RESULTS **	I-DPM/166 CM ²	Q.	-BETA in mRA	G#HIT TOU				
NO. RESULTS	NO. RESULT	rs no.	RESULTS	NO.	RESULTS	NO.	RESULTS	
1 < BKGD 2 < BKGD								
2								
4 < BKGD 2 BKGD								ĺ
in LBKGP								
7 -BKGD 8 - BKGD								ĺ
$\Lambda = U \Lambda U V$								

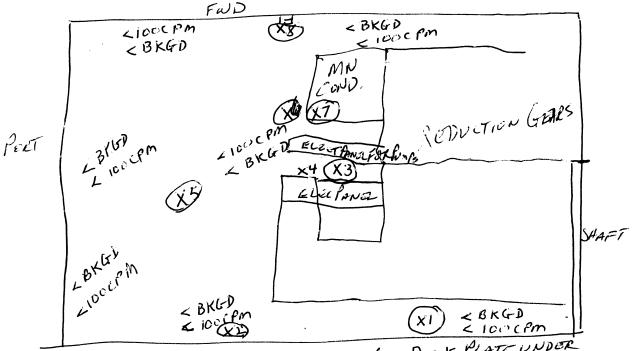
NSS-01

SURVEY NO. NSS-0042

Date 3/31/05 Time 13:00	DOSE RATE	CONTAMINATION			
Surveyor Craddock	Inst. Type LUDLum		BetaAlpha		
Signature Goddock	Serial No. 95499	Inst.Sn 97416			
Reviewed Role Tellennon	βFactor	Eff. 10%			
- July War	4mR/HR	Bkg. 3ω cpm	cpm		

AREA LOWER LEVEL MAIN ENGINE RM. PORTSIDE OF SHAFT

COMPONENT



SWIPE 2 DECK PLATE AFT FIREY BILGE FUM FPRITSIDE 3 DECK PLATE AFT FLET PANELS FOR CHE PUMPS 4 HAND HOLD ON PORT FOR PUMPS 5 DERKPLATE UNDER REDTAG#4

- DECK PLATE UNDER MN CONDENSOR OPENING
- 7 MAN WAY OPENING MN COND. 8. DELK PLATE TOP OF STEPSTO PORT CHARGE RM

X-DENOIC.	S
Swipe	
• •	

SMEA	SMEAR RESULTS IN DPM/160 CM ² SHETA in mRAD/hr/100 CM ²								
NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS
	∠BKG								
2	1BKG								
3	CBKG								
4	CBK6								
5	LBKG								
U	4 BKG								
7	< 13KG								
	LBKG								

RA - RADIATION AREA

CA - CONTAMINATION AREA

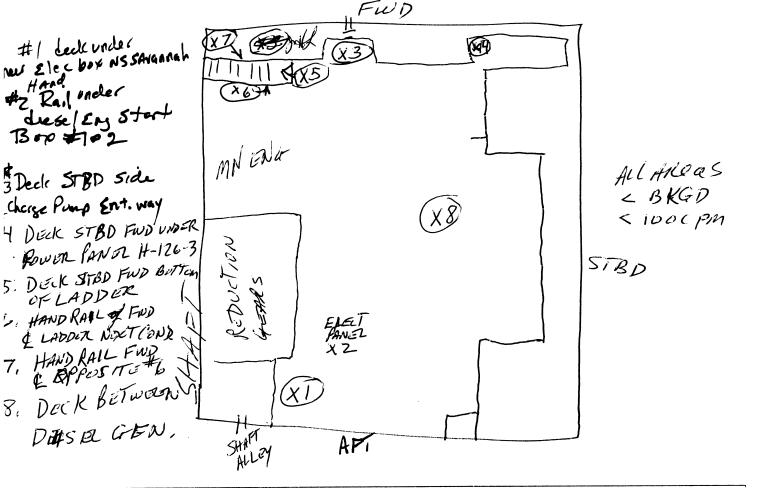
NSS-01

SURVEY NO. NSS-0043

Date 3/31/05 Time	DOSE RATE	CONTAMINATION			
Surveyor Craddock	Inst. Type LUDLum	Beta_ ✓ Alpha	BetaAlpha		
Signature Roldonic	Serial No. 95499	Inst.Sn 97416			
Reviewed Jule 14 Church	β-Factor + Jill	Eff. 10 %			
	4 mR/HR	Bkg. 30 cpm	cpm		

AREA LOWER LEVEL MAIN ENGINE RM STBD SIDE OF SHAFT

COMPONENT____



SMEAR RESULTS +IN-DPM/100 CM2				-B =	BETA in mR/				
NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS
)	<bkg< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></bkg<>								
2	< B KG								
3	< BKG							 	
4	L BKG								
5	4BKG					_			
4	2 BKG			!					
7	< BKG								
8	< BKG					1			

RA - RADIATION AREA

CA - CONTAMINATION AREA

NSS-01

SHAFT ALLY

SURVEY NO. NSS-0044

	Y	· · · · · · · · · · · · · · · · · · ·				
Date 3.31-05 Time	DOSE RATE	CONTAMINATION				
Surveyor CRADDOCK	Inst. Type LUDLUM	Beta_ L _ Alpha	BetaAlpha			
Signature A Quo	Serial No. 95499	Inst.Sn 97416				
Reviewed Helet Elmad	β ⁻ Factor	Eff. 10%				
	4 m R/AX	Bkg. 30 cpm	cpm			

AREA	SHAFT	ALLY		
COMPONENT	•			

X2). HAND CRANK FOR DOOR 2. HAND RAIL

ENTIRE SHAFF ALLEY

DR < BKGD

FRISK < \$000CPM

SMEA	R RESULTS =	CM ²							
NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS
ì	Z AKG								
2	LAKG LBKG LBKG								
3	L BKG							1	
4	LBKG							ļ	
İ				 				ļ	

RA - RADIATION AREA

3. DETK GRADING 4 DETK GRADING

CA - CONTAMINATION AREA

NSS-01

SURVEY NO. NSS-0045

			
Date 4/1/05Time	DOSE RATE	CONTAMIN	NATION
Surveyor CraddodC	Inst. Type LUDLUM	Beta_i Alpha	BetaAlpha
Signature Coddocle	Serial No. 95499	Inst.Sn 97416	
Reviewed King & Prince	β ⁻ Factor	Eff. 10%	
	4mR/Hx	Bkg. 30 cpm	cpm
AREA MAIN ENG	NE ROOM'S CONTRE	LRoom	

COMPONENT MOOR SWIPES 1 XI KNOB 1 DOOR T KNOB 2. DOOR THRESHOLD HANDRANL 3. DERKINSIDE DOOR #5 HANDRAIL 4. HANDRAIL AG XILI WEEKBENCH CUTSIDE HOT CHEM LAB. 17 INSIDE DONK P. DECK NUC SYM. 18 WORK BENEH TOPSHOT 19-WORK BENEH BOTTOMSHO 3, HANDLEON LEFT 20. POOR KNOB TO HOT CHEN LAST ROD CONTRANC 21. DECK OUTSIDE HOTCHEN DOOR LAB AT DOOR BACK of SWBD TROL & GROUP 22 VENTOVER HOOD LIGHT ECTER 23. HANDSES FOR DOOR 10 DECKPORTSIDE OF ZMIXMG STATION CONTROL PANGL STATION MIKING STATION 11 DOOR #2 KNOB 12. DOUR #2 TARESHULD 26 WORKBENCH STBD. 13. DECK INSIDE DOOR 2 DOOR 6 14. DECK UNDOLDOSK PAWEZ 15. DECK FORT FLOWT PAWEZ 27. 2 SHEZF WC CASNET E 28. DESK TOP DESK 29 - DECKUNDER DESTES < BKGD < 300 PMA JHL 30 DECK OUTSIDE POUR ALL AREAS

SMEAR RESULTS 4N-DPM/100 CM ² 8 = BETA in mRAD/hii/100 CM ²									
NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS
7	-BKG	9	LBKG	17	< BKG	25	LBKG		
2	< BKG	10	1 BKG	18	< BKG	26	LBKG		
3	LBKG	İL	1 BKG	19	L BKG	27	LBKG_		
4	LBKG	12	2 BKG	20	LBKG	28	4 BKG		
゚ヺ	~ BKG	13	< BKG	121	< BKG	29	< BKG		
8	L BKG	14	4 BKG	22	< BKG	30	<bkg< td=""><td></td><td></td></bkg<>		
T	LBKG	15	4 BKG	23	< BKG				
R	LBKG	Tw	< eKG	24	< BKG				

RA - RADIATION AREA

CA - CONTAMINATION AREA

ALL DOSE RATES IN µrem/hr

BEHIND SWBD.

NSS-01

SURVEY NO. NSS-0046

Date 4/1/05 Time 10 · 00	DOSE RATE		CONTAMI	NATION
Surveyor Ben Switt	Inst. Type Ludlum 19	Beta_V	Alpha	BetaAlpha
Signature Pm	Serial No. 42472	Inst.Sn	91037	
Reviewed Kall Ilumo	β ⁻ Factor	Eff.	10%	
	BKEK 4 NR/Hr	Bkg.	HO cpm	cpm
	13KGZ 4 N'IMAY	bkg.	Ho cbw	cpr

AREA 14' Flat (Hold Derk) Starboard Side

4 Door Handle of Starboard Stab. Room

8 Top of Chute

	, ;	(10)
	[9	
Telescopic Chute	Elevator	

SMEA	SMEAR RESULTS #N DPM/100 CM²									
NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	
7	<bkgd< td=""><td>9</td><td>~ BKGD</td><td></td><td></td><td></td><td></td><td></td><td></td></bkgd<>	9	~ BKGD							
2	LBKGD	10	< BKGD							
3.	LBKGD									
4	< BKGD									
3	< BKGD									
Ú	L BKGD									
7	< BKGD							i		
9	< BKGD									

RA - RADIATION AREA

CA - CONTAMINATION AREA

NSS-01

SURVEY NO. NSS-0047

VD	DOSE RATE		/ cc	IIMATAC	NOITAN		
Inst.	Type Indian 19	Beta	_ Alpha	·	Beta	_Alpha	.]
Seria	al No. 42972	Inst.Sn	9103	7			
innelle B-Fa	actor /	Eff.	10%				
	GLHNR/Hr	Bkg.	40	cpm		cpm	
Port)		······································				3.5.44.5	
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9				$\overline{}$			
				(7)			
			F	reez	er		
HA Door	Handle						
π ~ ~							
	Inst. Seria Seria Bort)	Inst. Type Indim 19 Serial No. 42972 BFactor BKG 4 4 MR/Hr Port)	Inst. Type Indian 19 Serial No. 42972 Inst. Sn BFFactor Eff. BKG L H MR/Hr Bkg. Port)	Inst. Type Indian 19 Serial No. 42972 Inst. Sn. 9103 Beta Alpha Serial No. 42972 Inst. Sn. 9103 Bort) Gractor Bractor Inst. Type Indian 19 Serial No. 42972 Inst. Sn 91037 Fractor Eff. 10% Bkg. 40 cpm (1) (1) (2) (2) (3) (4) (5) (4) Free 2	Inst. Type william	Inst. Type willim Beta Alpha Beta Alpha Serial No. 42972 Inst. Sn. 91037 Barractor Eff. 10% Bk & L + MR / Hr Bkg. 40 cpm cpm Cont Freezer	

SMEA	SMEAR RESULTS #N DPM/100 CM² -B = BETA in mRAD/hr/100 CM²										
NO.	RESULTS	NO.	· RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS		
1	< BKGD	9	<bkgd< td=""><td></td><td></td><td></td><td></td><td>•</td><td></td></bkgd<>					•			
λ	LBKGD										
3	20K90							<u></u>			
4	4 BKGD										
5	4 BKGD										
6	L BKGD										
1	L BKGD							<u> </u>			
8	- BKGD							1			

RA - RADIATION AREA

CA – CONTAMINATION AREA

3

Suger + Flour

N.S. SAVANNAH RADIOLOGICAL SURVEY

NSS-01

SURVEY NO. <u>NSS-0048</u>

FISH ROOM

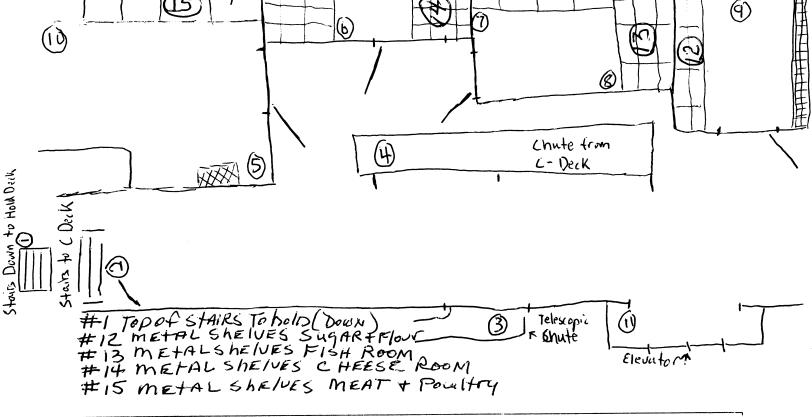
Date 4-105 Time 8:45	DOSE RATE	CONTAMINATION			
Surveyor LainAN Scott	Inst. Type/up/um 19	Beta V	Alpha	BetaAlpha	
Signature Jonan Scatt	Serial No. 42972	Inst.Sn	75809		
Reviewed Palet Wunnerh	· β=Facto r	Eff. /	00/0		
, , , , , , , , , , , , , , , , , , , ,	BKG-4/hR/h	Bkg.4	\mathcal{O} cpm	cpm	
O D I					

AREA D- 1Jeck Food Stores

cheese Room

COMPONENT_

STARBOARD SIDE



SMEA	R RESULTS +	N DPM/TC	U CM'	-B - BETA in mRAD/hr/100 CM ²					
NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS
7	4BKGD	9	-BKGD						
2	L BKGD	10	4BKGD						
3.	- BKGD	11	4 BKGD						
4	4BKGD	12	L BKGD						
5	< BKGD	13	- BKGD					ļ	
ĺ.	< BKGD	14	L BKGD						
7	L BKGD	15	< BKW						
8	< BKGD	L				J		L	

RA - RADIATION AREA

CA - CONTAMINATION AREA

ALL DOSE RATES IN µrem/hr

RCA - RADIATION CONTROL AREA

AA – AIRBORNE AREA

N.S. SAVANNAH

RADIOLOGICAL SURVEY SURVEY NO. NSS-0049 **NSS-01** Date 4-105 Time 1030 DOSE RATE CONTAMINATION Beta_ Inst. Type/47/ Alpha_ Beta Surveyor Loman Scott Alpha Serial No.429 Inst.Sn 75809 Reviewed 8 Factor Eff. 10 % Bkg. 4 cpm cpm Specia AREA SIDE oret COMPONENT Balk Stores special Stores #3 Electronic special Stores Freezer (8) (7)(P) Chute from (b C-Deck Telespopic Chute to Hold cleck # # Floor infront of Rad SHORER

5 WEIDED STEEL PANNE!

WHA RAD STICKER ON

WALL

11 threshold of Elevator #14,15,1617-ShelvING SMEARS -B - BETA in mRAD/hr/100 CM2 SMEAR RESULTS ANDPM/100 CM2 RESULTS RESULTS RESULTS RESULTS NO. RESULTS NO. NO. NO. LBKGD -BKGD BKGD 10 BKGD BKGD < BKGD

RA - RADIATION AREA

CA - CONTAMINATION AREA

ALL DOSE RATES IN µrem/hr

LBKGD

NSS-01

SURVEY NO. NSS - 0050

Date 4.1.05 Time	DOSE RATE	CONTAMINATION			
Surveyor Cachala	Inst. Type LUDLUM	Beta Alpha	BetaAlpha		
Signature Worklevel	Serial No. 95 499	Inst.Sn 97416			
Reviewed Kall Eliminal	β ⁻ Factor	Eff. 10%			
0.00	4mR/HR	Bkg. 3 Ocpm	cpm		
AREA A DECK AFT HE	ous E				

/ · · · · · · · · · · · · · · · · · · ·	<u> </u>	 	
COMPONENT			

	f	WD			_
DK of	151	HAFI			1
1010	e	~('			1
		Air	TRAU	~ · · · · · · · · · · · · · · · · · · ·	\dagger
570	ω	ו או	· JEAK	51000	
2		{	Ξ \	•	
		AF	T		1
	DK TOIL STO	DK J SH Toil of SH STOW		1 Darker	

ALL AROU IN DIA-DRL BKGD FRISK 100 CPM STOW STBD

1. OUTSIDE DOOR LATCHHAM

2. INSIDE DOOR LATCHES

4 INSIDE DOOR LATCHES

5. OUTSIDE DOOR LATCHES

5. OUTSIDE DOOR LATCHES

DKTOILET PORT

7. OUTSIDE DOOR LATCH

8. INSIDE DOOR LATCH

5. INSIDE DOOR LATCH

9. INSIDE DOOR LATCH

10. EXIT DOOR LATCH

11 ENTER DOOR LATCH

11 ENTER DOOR LATCH

11 ENTER DOOR LATCH

11 ENTER DOOR LATCH

SMEA	R RESULTS -	N-DPM/4	OO CIM [®]	8 -	B = BETA in mRAD/hr/100 CM ²				
NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS
1	~ BKGD	9	< BKGD						
2	L BKGD	10	4 BKGD						
3	< BKGD		< BKW						·····
4	1 BKGD								
5	4 BKGD								
6	- BKGD		-						
7	4 BKGD					.			
3	4 BKGD								

RA - RADIATION AREA

CA - CONTAMINATION AREA

NSS-01

SURVEY NO. NSS - OOS!

Date 4. / U's Time	DOSE RATE	CONTAMINATION			
Surveyor Crada Ic	Inst. Type LUDLUM	Beta Alpha	BetaAlpha		
Signature (Calleck	Serial No. 95 499	Inst.Sn 97416			
Reviewed Sales Wuman	βFactor	Eff. 10%			
	4 mR/HR	Bkg. 30 cpm	cpm		

AREA B DECK STERN COMPARIMENTS

STERN

COMPONENT		

BOSOM'S STORES

15. Deck INSIDE DOOR

LAMP + PAINT RAY

16. DOOR HANDLE INSIDE COMPT IS

17. DOOR HANDLE ENTER

18. ENTER ROOR OF AND

19. EXIT DOOR KNOW

20. DECK ANSIDE COMPT IS

20. DECK ANSIDE COMPT IS

21. STEP OVER STORE GRAAR RM

ALL AREAS IN DIA
DR < BKGD

FRISK IDOCPM

DR < BKGD

FRISK IDOCPM

FRISK IDOCPM

FRISK IDOCPM

FRISK IDOCPM

SWIPES SECTION L I DOORWAY 2 DOORWAY

PASS I ENTER DOOR KNOB

PASS 25 DECK INSIDE PASS |

PASS 25 DECK INSIDE PASS |

PASS 25 DECK INSIDE PASS |

PASS 25 DECK INSIDE PASS |

PASS 15 DECK INSIDE PASS |

PASS 16 DECK PAINT STEMAGE

10 DOOR HANDLE ENTER

10 DECK BETTOM OF LADDER

11 PORT HAND RAIL

12 STBD HAND RAIL

12 STBD HAND RAIL 13 POBICK PASS 2 STBD 14 PASS 2 HANDRAIL STBD

200

SMEA	R RESULTS	IN DPM/100 CM ²	NB = BETA in mRAD/hr/100 CM²					
NO.	RESULTS	NO. RESULTS	NO. RESULTS	NO.	RESULTS	NO.	RESULTS	
1	~ BKGD	9 LBKGD	17 LBKGD					
2	-BKGD	10 LBKGD	18 LBKGD					
3	LBKGD	11 LBKGD	19 LBKGD					
4	LOKGO	12 1 BKGD	ZO LBKGD					
5	L BKGD	13 LBKGD	21 < BKG0					
6	LBKAD	14 L BRGD	22-LBKGD					
7	< BKSD	15 LBKGD						
8	LBKGD	16 LBKGD		_L				

RA - RADIATION AREA

CA - CONTAMINATION AREA

NSS-01

SURVEY NO. NSS-0052

Date 4/1 /65 ime	DOSE RATE	CONTAMIN	NATION
Surveyor Craffeed	Inst. Type LuDLum	Beta Alpha	BetaAlpha
Signature (10 th ch	Serial No. 95499	Inst.Sn 97416	
Reviewed Balthumonh	β¯Factor	Eff. 10%	
	4 mR/HR	Bkg. 30 cpm	cpm
- Walls			

AREA STERN C"DECK EMERG. HP LAB

COMPONENT

X1(XX SWIPES

14 2ND SHAFFROM

15.3RD SHELF FROM

TOP

16. BOTTOM SHALT

10. BOTTOM SHALT HYBOKN'S 17. DECK BOTTOM of LADDER FWD 18 HAND RAIL LADDER AFT 19 HANDRAIL LADDER FUD 20 DOOR KNOB HPEMERLAS 21 DECK OUTSIDE HPLAB DOOR 22 DOOR KNOB TO FSD 3-211 23 DECK DN PASS DUTSIDE 3-211 24. DECK INSIDE 3-211 25. DOOR KNOB AFT IN 3-211

1. AFT INSIDE DOER KNOWN OF HPLAB 2. DK AT AFT DOOR 3. DK AT WORKTABLE

4. TABLE TOP 5. TABLE TABLE

6. PHONE

7. VENT DUCTOUS

8. EXH VENT

9. TABLE TOP WITH DRIBWERS

10. TABLE TOP WITH SHELVES

11, EXTEX DOOR KNUDA

12 DECK ANT DOOK 13705HOLFINSIDE CHOINET

ENTIRE AREA IN DIA.

DR < BKGD FAISIL < 100 CPM

SEE DIATI

PORT

SMEA	SMEAR RESULTS IN DPM/100 CM ² B = BETA in mRAD/hr/100 CM ²								
NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS
1	~ BKGD			9	< BKGD	17	< BKGID	25	LBKGD
2	LBK9D			10	< BKGD	18	< BKGD		
3	L BKGD			11	< BKab	19	< BKGD		
4	4 BKGD			12	L BKGD	20	L BKGD		
5	LBKGD			13	- OKGD	21	< BK4D		
b	LBKGD			14	CBKGD	22	2 BKGD		
7	LBKGD			15	LBKGD	23	~ BKGD		
8	-BKGD	/		16	~ BKGD	24	< BKGD		

RA - RADIATION AREA

CA - CONTAMINATION AREA

N.S. SAVANNAH

RADIOLOGICAL SURVEY SURVEY NO. NSS - 0053 **NSS-01** Date 1/05 Time DOSE RATE CONTAMINATION Beta L Alpha Surveyor (Cold) Beta Alpha Inst. Type LUDLUM Inst.Sn 97416 Signature Serial No. 9 Eff. 10%0 Reviewed **B**Factor 4mK 30cpm Bkg. cpm EMERGENCY COMPONENT Swif55 1. BASEPLT BEAM & ALL AREAS AFT OF HP LAG. 2, ACCESSRING 3. STBDACCESS RING SIDE 4. ACCESS ENTERING-SECTION 2 L BKGD 5 DK SECTION 5 6. DK Section 3 # 7, DECKSELLON 7 8: Access RANG-SECTION 9 9. ACCESS RING-SECTION 8 10- DOOR KNGBOUTSIDE LAB 11. PASS AFT OF LAB 12 DK SECTION 11 13 ACCESS RING TO SECTION SECTO SECTION SECTION ENTIRE C DECK STERN AREAS 9

SMEA	R RESULTS	HN DPM/10	0 CM′	-U-	BETAIN MR	אסר מחישה	CM**		
NC.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS
	< BKGD	9	LBKGD						
2	L BKGD	10	LBKGD						
3	< BRGD		< BKGD						
4	~ BKGD	12	- LBKGD						
75	< BKG0	13	< BKGD						
6	< BKGD								
1	< BKGP								
8	- BKGD			L1					

RA - RADIATION AREA

DIATI

CA - CONTAMINATION AREA

NSS-01

SURVEY NO. NSS - 0054

	001(VE1 1(0. <u>1-1</u>	
DOSE RATE	, CONTAMI	NATION
Inst. Type Ludlum 19	Beta_√_ Alpha	BetaAlpha
Serial No. 42972	Inst.Sn 91037	
β ⁻ Factor	Eff. 10%	
BKG4 4NR/4r	Bkg. 40 cpm	cpm
-4 - 200 from bot	tom (D-Deck)	
Can	ng Down to 150 than (OP
(6)		
	(+)	
Pile of	wood & Pipes	
	Inst. Type Ludlum 19 Serial No. 42972 BFactor BKG 4 4 MR / 4r 4 - 200 from bot Cany	DOSE RATE CONTAMI Inst. Type Ludium 19 Serial No. 42972 Inst. Sn 91037 β-Factor Eff. 10% BKG< 4 MR/4r Bkg. 40 cpm 4 - 200 from bottom (D-Deck)

Frisk L 100CPM/DMZ BKG

SMEAR RESULTS +N-DPM/T00 CM² B = BETA in mRAB/hr/199-CM²									
RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	
-BKGD									
<bkgp< td=""><td> </td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></bkgp<>									
LBKGD	!								
~ RKGD									
L BKGD			.				i		
ZDKGD							ļ		
	RESULTS	RESULTS NO. LBKGD LBKGD LBKGD LBKGD	RESULTS NO RESULTS - BKGD - BKGD - BKGD	RESULTS NO. RESULTS NO. - BKGD - BKGD - BKGD - BKGD	RESULTS NO. RESULTS NO. RESULTS - BKGD - BKGD - BKGD	RESULTS NO. RESULTS NO. RESULTS NO. - BKGD - BKGD - BKGD	RESULTS NO. RESULTS NO. RESULTS - BKGD - BKGD - BKGD - BKGD	RESULTS NO. RESULTS NO. RESULTS NO. RESULTS NO. CESULTS	

RA - RADIATION AREA

CA - CONTAMINATION AREA

NSS-01

SURVEY NO. NSS-0054

NSS-01			30	RVET NO	10 3 3 1	
Date 4/4/05 Time 9.40	DO	SE RATE		CONTAI	MINATIO	N
Surveyor Ben Scott	Inst. Type	Indlum 19	Beta_V	Alpha	Beta	Alpha
Signature By J. Sr	Serial No.	42972	Inst.Sr	91037		
Reviewed 16 19 19	β ⁻ Factor	/	Eff.	10%		
	BKG.	< 4 WR/Hr	Bkg.	40 cpm	1	cpm
AREA Corgo Hold #	- 417 -	n 6 ittom (C Dec	k)		
				- 19		
COMPONENT						
Hypro						
Mroll (
- /1 <u>-</u> / -						
quers 0	~ (1)			\circ	steel	
	Steel Support			V	Support	
1 ON	11			$(\curvearrowright$		
ntof				· ·	V	
haust (ent		(b)			Č	24
		(9)			· a	Reactel
ON FRONT + 105						8 73
ON FRONT DE ExhAust Vent Hydrox						Q' 12
Y DAUSI						
Vent Hydrolig	15 No.					
ejartor) \ v				3tee	ia	
	O steel put			()5	report	
	_					
	(\vec{i})					
)
Frakz 100cpm / DMZ	3KG Vert. Launer	FOWA	ı P			
SMEAR RESULTS IN DPM/100 CN		= BETA in mRA	D/hr/100	GM²		
	RESULTS NO.	RESULTS	NO.	RESULTS	NO.	RESULTS
1 4 BKGD 2 4 BKGD						
2 CBKGD 3 LBKGD 4 LBKGD 5 LBKGD						
4 LBKGD Z LBKGD						
6 < BKGD						
7 ~BK90						
8 LBKGD						

RA - RADIATION AREA

CA - CONTAMINATION AREA

NSS-01

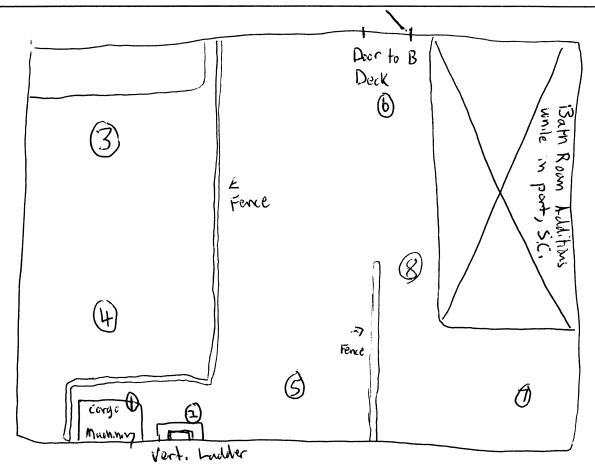
SURVEY NO. NSS - 0054

Date 4/4/05 Time 10:00	DOSE RATE	/ CONTAMINA	TION
Surveyor Ben Scott	Inst. Type Indlum 19	Beta_√ Alpha B	BetaAlpha
Signature By) Sv	Serial No. 42972	Inst.Sn 91037	
Reviewed Rale Tollinnoch	β ⁻ Factor	Eff. 10%	
7	BKG < 4 MR/Hr	Bkg. 斗 () cpm	cpm

AREA Corgo Hold # 4 - B Deck

COMPONENT_____

1 ON Top



Frisk & NOCPM / DM & BKG

FOWARD

SMEA	R RESULTS +	N-DPM/10	0 CM ²	8 - BETA in mRAD/hr/100 CM ²							
NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS		
7	< BKGD										
2	L BKGD										
3_	< BKGO										
4	L BKGD										
5	2 BKGD										
6	< BKGD										
7	< BKGD]			
8	< BKGD			l				<u> </u>			

RA - RADIATION AREA

CA - CONTAMINATION AREA

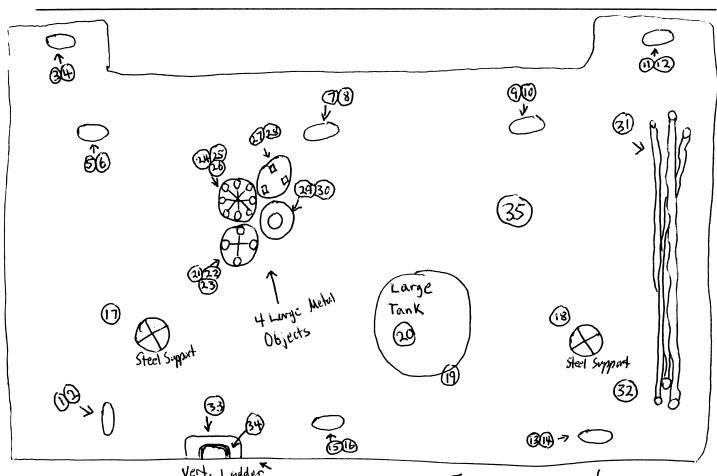
NSS-01

SURVEY NO. NSS-0054

Date 4/1/05 Time 12,30	DOSE RATE	CONTAMINATION	NATION		
Surveyor Ben Scott	Inst. Type Ludlum 9	BetaAlpha BetaAlpha			
Signature Brown) - fr	Serial No. L+2972	Inst.Sn 9(03)			
Reviewed Roll & Ruman	β ⁻ Factor /	Eff. (0%			
	BKG < 4 NR/Hr	Bkg. 40 cpm cpn	m		

AREA

COMPONENT Cargo Hold # 4 (Hold and 14' Flat Decks)



FURWMO

Frikz WOCPM/DM & BKG

SMEAR RESULTS 1N DPM/199 GM ² B = BETA in mRAD/hr/100 CM ²									
NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS
1	< BKGO	9	~ BKGD	17	L BKCID	25	< BLGD	33	< BKGD
2	LBKGD	10	4 BKGD	18	LBKGD	26	4BkgD	34	∠ BKGD
3	< BKGD	11	-B/G0	<u> 1</u> 9	< BKGD	27	< BKGD	35	< BKGD
4	LBKCO	12	< BKGD	20	< BKGD	28	< BKGD		
5	LBKGD	13	< Bkg0	21	< BKGD	29	- BKGD	<u> </u>	
6	LBKGD	14	< BKGD	22	1 BKGD	30	LBKGD		
7	< BKGO	15	< BKGD	23	2 BKGD	31	< BKGD		
8	LBKGD	16	LBKGD	34	L BKGD	22	LBKGD	<u> </u>	

RA - RADIATION AREA

CA - CONTAMINATION AREA

NSS-01

SURVEY NO. NSS-0054 CONTINUED

Date 4-1-05 Time	DOSE RATE		CONTAMINATION			
Surveyor	Inst. Type	Beta	Alpha	Beta	_Alpha	
Signature	Serial No.	Inst.Sn				
Reviewed	β ⁻ Factor	Eff.				
		Bkg.	cpm		cpm	

AREA Corgo Hold # 4 (Hold + 14' Flut Deck)

COMPONENT DESCRIPTIONS

#1 Top 0	t Hatch	#2 Inside of	Hakh
#3 "	W	# 4 "	V
#5"		#6"	**
#7"	W	#8"	"
#9"	<u>u</u>	井 12 " 井 12 "	*
#11"	"	# 14"	**
#13 "	10	#16"	W.
#15"	~		

#17 Side of Steel Support
#18 Side of Steel Support
#19 Side of Large Tonk
#20 Valve on Gottom of Tonk
#21 Top Lip of Object
#22 Metal on inside
#23 Bottom
#24 Side
#25 Spindles
#26 Inside
#27 Top

#29 Side
#30 Top
#31 Inside Discorded Flex. Pipe
#32 Other End"
#33 Floor outside Ladder
#34 Floor inside Ladder
#35 Floor Smear

SMEA	SMEAR RESULTS IN DPM/100 CM² B = BETA in mRAD/hr/100 CM²								
NO.	RESULTS /	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS/
(q		17		25		37	
2	6	10		18		બ		34	
3		11		Рí		27		35	
Ĥ /	1/4/	12		20		28			
5		13		21		29	/		/
6/		14/		22/		30/			
1		js		23		<i>7</i> 51			
8		16		124		/32		/	

RA - RADIATION AREA

CA - CONTAMINATION AREA

ALL DOSE RATES IN µrem/hr

#28 Side

NSS-01

SURVEY NO. NSS - 0055

Date 4-4-05 Time	DOSE RATE	CONTAMIN	ATION
Surveyor Craddack	Inst. Type Ludlum	Beta Alpha	BetaAlpha
Signature Gaddork	Serial No. 95499	Inst.Sn 474/6	
Reviewed Roll 4 Pennish	β ⁻ Factor	Eff. 10°70	
	4uR/HR	Bkg. 30 cpm	cpm

AREA Adede FAN Rm & Plenum Tort Side COMPONENT 2- Panel DR LBKG DR LBKG FRIGHT 100 CPM

SMEA	SMEAR RESULTS 4N DPM/100 CM2 B = BETA in mRAD/hr/100 CM2								
NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS
1	4 BKG	9	LBKGD						
2	1 BKG	7							
3	< BKG								
4	< BKG								
5	< BKG			<u> </u>					
6	< BKG								
7	< BKG								
8	< BKG	<u> </u>							

RA - RADIATION AREA

CA - CONTAMINATION AREA

ALL DOSE RATES IN µiem/hr

ERISKY WOCPM

NSS-01

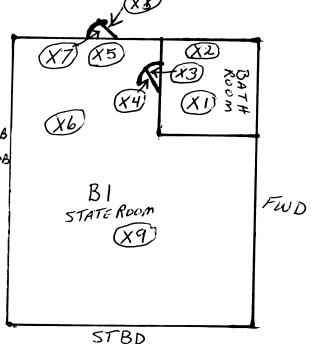
SURVEY NO. NSS-0056

Date 4/4/05 Time	DOSE RATE	CONTAMINATION				
Surveyor CRADDOCIC	Inst. Type LUDLUM	Beta_	BetaAlpha			
Signature (ICCO-IC	Serial No. <i>95</i> 499	Inst.Sn 97416				
Reviewed Rante Permone	β ⁻ Factor	Eff. 10 %				
	HuR/HR/An	Bkg. 30 cpm	cpm			

AREA B-1 STATEROOM AND BATH "B" DECK STBD

COMPONENT WASTE STORAGE BOOM FOR BANWASTR

- 1. DECK BATHRM 2. BATH VENT 3. BATH EXIT DOOR KNOB
- 4. BATH ENTER DOOR KNOB
- 5. STATEROOM VENT
- 6 STATEROUM DECK
- 7. EXIT STATEROOM DOORKNOB
- 8, ENTER STATEROOM DOORKADS
- 9. STATEROOM DECK NEXT TO BARRELS



ALL AREAS IN DIAGRAM < BKGD < 100CPM

SMEA	R RESULTS +	N-DPM/10	o civi	B = BETA in mBAD/hr/100 CW ²					
NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS
j	< BKG	9	< BKG						
2	< BKG								
3	2 BKG								
4	< BKG								
5	< BK9								
6	< 8kG								
7	~ BKG								
8	< BKG								

RA - RADIATION AREA

CA - CONTAMINATION AREA

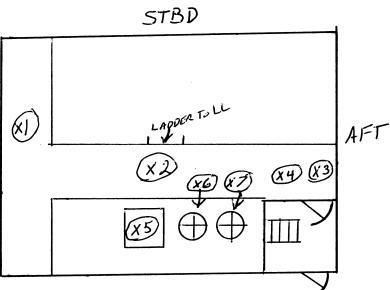
NSS-01

SURVEY NO. NSS - 0057

Date 4/4/05 Time	DOSE RATE	CONTAMII	NATION
Surveyor Cradelock	Inst. Type LUDLUM	Beta_	BetaAlpha
Signature Godded	Serial No. 95 499	Inst.Sn 97416	
Reviewed Kale & Samuel	β ⁺ Factor	Eff. 10%	
	HUR/HR	Bkg. 30 cpm	cpm
AREA FWD STBD ST	ABLIZER RM.	14 FOUT FLA	47
COMPONENT			

SW	j	PE	5

- 1. DECK FWD WALK WAY
- 2. DECK AT LADDER TO LL
- 3. LIGHT SWITCH AFT BHD
- 4, DECK AT LIGHT SWITCH
- 5. DECK OF GRATING FWD OF VALVES 6. FWD LARGE VALVE
- 7. AFT LARGE VALVE



ALL AREAS IN DAAGRAM DR < BKGD FRISK 100 EPM

MEA	R RESULTS -	IN DPM/10	CM²·	- 8 -	*B = BETA in mRAD/hr/100 CM²				
NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS
l .	< BKG								
2_	L BKG								
3	L BKG								
4	~BKG							L	
5	< BKG								
6	~ BKG								
7	L BKG								

RA - RADIATION AREA

CA - CONTAMINATION AREA

NSS-01			SURVEY NO.	NSS-0058
Date 4/4/05 Time		DOSE RATE	CONTAI	MINATION
Surveyor Craddo	Le Ir	nst. Type Luplum	Beta_	BetaAlpha
		erial No. 95499	Inst.Sn 97416	
Reviewed Rule 18	Punah B	Factor	Eff. 10%	
		HUR/HR	Bkg. 30cpm	n cpm
AREA FWD ST	BD STABL	IZERRM AN	D CROSS OVER	LOWER LEVE
HOLD DECK				
COMPONENT				
DECK PORT of & CROSSOVE DECK STBD of & CROSSOVE DECK STBD CROSS DECK STBD CROSS BILLIE AREA S	CROSSOVER 1' '' SSOVER AT TUI TBD NEAR C	eN (LADOCR X3	AFT.
ANK TOP FWD ST	BD (X5)			
ANK TOP FWD ST DAIKWAY BOTTOM LA WD DECK TANK TOP A WASSOVER OPENA WAKK WAY DECK A	7 X4) 04 X3) (X2)	CROSS OVER BETWEEN PORT & STBD STABLIZER ROOM		BKGD 100 ppm
DECK TANK TOP A DO DECK TANK TOP A DOSS OVER OPENIA WAKKWAY DECK A	(X2)	EVER BETWEEN PORT & STBD STABLIZER ROOM	<u> </u>	BKGD 100 ppm
DECK TANK TOP A DECK TANK TOP A DOSS OVER OPENIA WAKKWAY DECK A	17 X4) 17 X3 18 POR	BETWEEN PORT & STBD STABLIZER ROOM B=BETAIN mRA	∠ < D/hr/100 GM² ·	
DECK TANK TOP A DO DECK TANK TOP A DOSS OVER OPENIA WAKKWAY DECK A	(X2)	EVER BETWEEN PORT & STBD STABLIZER ROOM	<u> </u>	BKGD 100 PPM NO. RESULTS
SMEAR RESULTS -	NO. RESULTS	BETWEEN PORT & STBD STABLIZER ROOM B=BETAIN mRA	∠ < D/hr/100 GM² ·	
SMEAR RESULTS -	NO. RESULTS PER RESULTS PER RESULTS	BETWEEN PORT & STBD STABLIZER ROOM B=BETAIN mRA	∠ < D/hr/100 GM² ·	
SMEAR RESULTS + NO RESULTS 1 - BKG 2 - BKG 4 - BKG	NO. RESULTS PER RESULTS PER RESULTS	BETWEEN PORT & STBD STABLIZER ROOM B=BETAIN mRA	∠ < D/hr/100 GM² ·	
SMEAR RESULTS -	NO. RESULTS PER RESULTS PER RESULTS	BETWEEN PORT & STBD STABLIZER ROOM B=BETAIN mRA	∠ < D/hr/100 GM² ·	

RA - RADIATION AREA

CA - CONTAMINATION AREA

NSS-01

SUBVEY NO 1/55-0059

1422-01		SURVET NO. 7	155 000
Date 4/4/05 Time	DOSE RATE	CONTAM	INATION
Surveyor CRAPPOCK	Inst. Type LUDLUM	Beta_ Alpha	BetaAlpha
Signature Collac,	Serial No. 95'499	Inst.Sn 97416	
Reviewed Kent Illennan	βFactor	Eff. 10 %	
	44R/4R	Bkg. 30 cpm	cpm
AREA PORT FORD STABL	-1ZER ROOM UP	OUR LEVEL	
14 FLAT			
COMPONENT			
	PORT		
S			
DK PLATING (X5) DE EK PLATES	Pemp De GRAFING XI 14h	(X3)	Fn
	our	12	427
Swipes			54R
I DECK PLATE AEUD OF TUMP	A · istal		
2 FWD WALKWAY BEHIND STAIR	of Acress To Stablike	e '	
3. WALK WAY INSIDE DUT	BD.		
SWIPES 1. DECK PLATE ALUD OF PUMP 2. FWD WILKWAY BEHINDSTAIR 3. WALK WAY INSIDE DOC 1. AFT DECK PLATING DUT 1. AFT DECK AT LL LAD	PER		
DR LBKG FRISK LIOUCAM			
-2151/ L 100 CPM			
KIN			

SMEA	R RESULTS	IN DPM/100	о см²-	8 = BETA in mRAD/hr/100 CM ²					
NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS
1	L BKG								
2	~ BKG								
_3	< BKG								
4	< BKG								
5	4 BKG								
				1					

RA - RADIATION AREA

CA - CONTAMINATION AREA

NSS-01 Date 4/4/05 Time Surveyor Crackled C Signature Coulded C Reviewed Raw Months The A	Serial No. 95 βFactor	ATE DLUM Beta_	CONTAM Alpha On 97416 1090	INATION	lpha
Surveyor Challed Signature Challed Reviewed Raw House	Inst. Type Δυ Serial No. 95 β Factor	DLUM Beta_ 1499 Inst.S	✓ AlphaSn 97416		lpha
Surveyor Crailed Co. Signature Coulded Co. Reviewed Rate Surveyor	Serial No. 95 βFactor	1499 Inst.S	in 97416	BetaA	lpha
Reviewed Ral Tomach	βFactor				
Reviewed Rale Tomach		Eff.	10010		
Dat In Can	1 1		10-10	!	
- DOT IN CTLA	HUR/X	HC Bkg.	30cpm		cpm
AREA PORT FWD STAB			EBBEL		
COMPONENT					
COM ONEM					
IL ECK PLATES AFT END ECK PLATES AFT END DECK AT 4 LARGE VALVES AFT TOP LARGE VALVE FLAN AFT BOTTOM """ TOP FWD """ TANK TOP SURFACE FWD AT CRO INBOARD PORT VALVE FLANGE	U '' NOS OVER ENTERA	NC C SUR	JIMOS KILLY & SOUR SOUR SOUR SOUR (XIS) X	504R Jn091 100K Jn095	PORT INBO

No FRISK DATA

SMEA	R RESULTS	IN DPM/10	o cm²	*B = BETA in mRAD/hr/100 CM²					
NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS
4	LBKGD	12	LBKGD						
5	L BKGD	13	LBKGD						
6	L BKGD	14	L BKGD						
7	2 BKGD	15	< BKGD						
-8	18 BGD	16	< BKGD			I			
- 9	L BKGD	17	< BKGD						
10	< BKGD								
11	< BKGD					<u> </u>			

RA - RADIATION AREA

17. @ FWD DECK AREA

CA - CONTAMINATION AREA

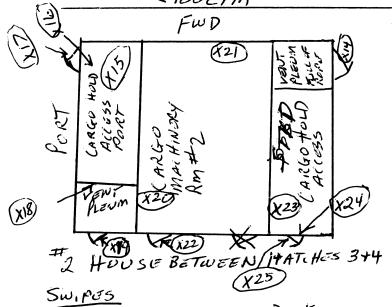
N.S. SAVANNAH

RADIOLOGICAL SURVEY **NSS-01**

NSS-01	SURVEY NO. <u>NSS-006</u> /							
Date 14/05 Time 8:30	DOSE RATE	CONTAMINATION						
Surveyor Craddock	Inst. Type LuDLum	BetaAlphaBetaAlpha						
Signature Anddede	Serial No. 95499	Inst.Sn 97416						
Reviewed Rah Talunah	β ⁻ Factor	Eff. 10%						
	4mR/HR BKG	Bkg. 30 cpm cpm						

AREA FWD WEATHER DECK HOUSES BETWEEN HATCHES IT 4

COMPONENT ALL AREAS SHOWN ON DIAGRAMS ARE < BKGD Y < 100CFM



1. # 1 House STBD VOUT TRUNK DECK

2. SUPPY VONT SWITCHES

ACCESS DOOR HANDLES

HOUSE CARGO HELD ACCESS DECK 11 11 LIGHT SWITCH

1 House " 11 1, DOUR HANDLES

#1 HJUSE 11

#1 HUUSE PORT VANT ACCESS DK II HOUSE PERT " " DOOR HANDLES

Xb		FWD		, x3
(X3)	CALGO KE HULD ACCESS	CARGE MAHINERY SPACE # 1 (B)	CARGO HOLD ACCESS	0.8
	YEST MELEVAN	(X) CACGO SPACE	CARGA CARGA	ST
-		(III)		11.

HOUSE BETWEEN HATCHES 1+2

9. FWD VENT CARGO MADY SYNE

10. (ARGO MACHYSP#1 DK

11. CARGO MACHO SPHI DOOR HANDLES
12. STEVEDORE TOILET DE HANDLES
13. STEVEDORE TOILET DOOR HANDLES 14. #2 HOUSE CARGOVENT RM DOOR HANDLES STBD

15 #2 House PORT CARLE THE CESS DECK

LIGHT Sw. TeH

DOOR HANDLES

18. # 2 HOUSE PORT VENT PLOAM. VONT SWITCH

. DOOR HANDLES

SMEA	R RESULTS 1	N DPM/10	IO CM²	8 -	- BETA in mRA	D/hr/100	9 CM²		
NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS
1	LBKGD	9	< BKGD	17	-BKGO	20	LBKGD		
2	< BKGD	10	< BKGD	18	LBKGD				
3	LBKGD	11	< BKGD	19	< BKG0				
4	LBKGD	12	- BKGD	21	< BKGD				
5	LBKGD	13	2 BtGD	22	~ BKGD				
4	LBKad	14	~ BKGO	23	< BKGD				
7	4 Bigs	15	< Buen	24	< BKGD				
8	L B KOD	16	< BITGD	25	~ BXGO				

RA - RADIATION AREA

CA - CONTAMINATION AREA

ALL DOSE RATES IN grem/hr

RCA -- RADIATION CONTROL AREA

AA – AIRBORNE AREA

(OVER)

NSS-01

SURVEY NO. 1/55-6061

1400-01		SOLVET NO. Th	77 0001
Date 4/4/05 Time 0830	DOSE RATE	CONTAMI	NATION
Surveyor	Inst. Type Luduan	Beta Alpha	BetaAlpha
Signature	Serial No. 95499	Inst.Sn 97416	
Reviewed	β ⁻ Factor	Eff. 10 %	
	4MR/HR BKG	Bkg. 30 cpm	cpm
AREA FWD WEATH	on DECK HOUSES	BETWEEN HA	Teltés I AND 4
PONTINUATION OF	PAGE 1		
SWIPES 20 #2 HOUSE CARL	THE MACHINERY SP. #	2 DECK	
	10	12101	
2. 11 11 11		DOOR LATE	<i>i +</i>
	TO HOLD ACCESS		
4	,,	DOOR LATCH	EXIT
ž: ,,	','	·, ·, E	ENTERANCE

Page 20/2

SMEAF	RESULTS	N DPM/10	0 CM ²	B =	B = BETA in mRAD/hr/100 CM ²				
NO.	NO. RESULTS NO. RESULTS			NO.	RESULTS	NO.	RESULTS	NO.	RESULTS

RA - RADIATION AREA

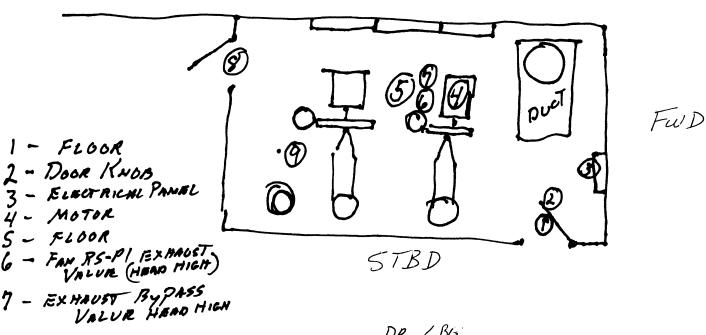
CA - CONTAMINATION AREA

NSS-01

SURVEY NO. NSS-0062

Date 4-5-05 Time 9:30	DOSE RATE	CONTAMINATION			
Surveyor Craddoda	Inst. Type LUDLUM	Beta Alpha	BetaAlpha		
Signature A a good c	Serial No. 95499	Inst.Sn 97416			
Reviewed Raliffinnisch	β¯Factor	Eff. 10%			
	HUR/HR BKG	Bkg. 30 cpm	cpm		

AREA	B DECK	FAN ROOM	TO COED CHENS LAB	
COMPO	NENT			



8 - THARSHOLD

DR LBG FAISICK 100CPM

SMEA	R RESULTS 4	N-DPM/10	o CM² →	8 = BETA in mRAD/hr/100 CM ²					
NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS
	4BKG	9	4BKC-						
2	4BKG	YOK	60						
3	< BKG								
9	< BK6-								
5	L BKG								
U	L BKG								
	2 BKG								
	- BKG								

RA - RADIATION AREA

CA - CONTAMINATION AREA

NSS-01		SURVEY NO.	VSS - 0063
Date 4305 Time 1315	DOSE RATE	CONTAN	MINATION
Surveyor Loman Scott	Inst. Type / Lan 19	Beta Alpha	BetaAlpha
Signature Januar Scott	Serial No. 47972	Inst.Sn 9/037	
Reviewed la le Helinnon	& Factor	Eff. 10%	
	BRG-4 Mr/h	Bkg. 40 cpm	cpm
AREA HOWKY D	leck (Starburd		
COMPONENT			
(b) P. le of Straps	3 D	open Cargo Hold Area Vert Loulde	#2 Hydrolic controls #8 Overhead vent Phe # 9 Back Worth PARCH WORTH A-38 - Vent B-1800-Back WORTH C-6 - Back WORTH D-1940-Floor 250
(H) \	Hydrolic	0	
SMEAR RESULTS #N DPM/100 CM²	'B = BETA in mRAI	D/hr/100 СМ²	
NO. RESULTS NO. RESULT		NO. RESULTS	NO. RESULTS
1 LBKG 4 LBKG 2 LBKG 10 LBKG			
2 LBKG 10 LBKG 3 LBKG 11 LBKG	9		
4 < BKG			
5 - BKG 6 - BKG			
7 - BKG			
8 < BKO			

N.S. SAVANNAH

	RADIOLOGICAL SI	JRVEY	
NSS-01		SURVEY NO.	NSS-0064
Date 4/5/05 Time 09:00	DOSE RATE		MINATION
Surveyor	Inst. Type LUDLUM	Beta Alpha	BetaAlpha
Signature Craddocle	Serial No. 454 9 9	Inst.Sn 97416	
Reviewed God onle	β ⁻ Factor	Eff. 10%	
Rultermonh	YUR/HR BKG	Bkg. 30 cpn	n cpm
AREA UPPER LEVIL			TICAL LABOR ATO
RADIATION M	DONITORING ROOM	1 FVVD	
COMPONENT			
ENTER DOOR LATCH EXIT DOOR LATCH DECK INSIDE DOOR DECK INSIDE STORAGE POLY 5 GAL BOTTEL FO	U OF FLUID	HR 50 UR 1948 X21	6 Kg
PORT SHOLL TILL DOLL FOR	UD	(12) (X23)	# 540W
DRAIN HABLE POUT OCH SIN	KINSIDE X18		Was De William
SMIKE INDER HOOD SIN	K IN	· 2 . 1b	TO THE PARTY OF TH
INSIDE HOOD OFFER ST	WK & B	1 X 14 X 15	
SHOWER HANDLE	<u> </u>		一多
SHOWER DECK			_ +
- M DOOR WAY		~1	(E)
SHOWER DOOR WAY ISTSHELF FROM TOP FWDPORT TO 2ND DK INSDESINK CABINET UN EXH VENT OVER STEP PORT & CROSS OVER STEP STEP STEP CTBDC	ABLE	tel Eg	(13) (XI)
ISTSHELF PROM TOP FUNDE	(1)	4	
2ND " COMMENTION	DER DRAIN FIPE B	*4,B	S. Barrell
DK INSDESING CABINETS.	<u></u>	PORT	
EXH VENI OVER HEAD		IONI	
CROSS OVER STEET FOR			1
CROSS OVER STEP STBDE		(Page 10F2	
SMEAR RESULTS 4N-BPM/100 CM2	-8 = BETA in mR	AD/hr/100 CM ²	
	ULTS NO RESULTS	NO. RESULTS	NO. RESULTS
1 2BKG 9 2B			
2 < BKG 10 < B 3 < BKG 11 < B			
4 < BKG 12 LB	kg 20 SBKG		
5 -BKG 13 LB			
6 < BKG 14 6B	KG 22 < BKG		

RA - RADIATION AREA

< BKG

CA - CONTAMINATION AREA

ALL DOSE RATES IN prem/hr

4 BKG

< BKG

IA.O. OMVMIAIAMI

RADIOLOGICAL SURVEY

NSS-01

SURVEY NO. 1155-0069

Date 4/5/05 Time 0400	DOSE RATE	CONTAMINATION
Surveyor	Inst. Type Ludium	Beta Alpha BetaAlpha
Signature	Serial No. 95499	Inst.Sn 974/6
Reviewed	βFactor	Eff. 10%
		Bkg. 30 cpm cpm

AREA_UF	PER LEV	EL "C" DECK	LOLD WATER	CHEMICAL	LABOR ATOR
RA	DIATION	O MON. TORIN	it Room		
COMPONE	NT				
4-4-					
CONTI	FROM	PAGE 1			_

SwipES 20. TOP OF LEAD BRICKS UNDER ITEM COVERED WITH LEAD 21. DECKIN FRONT OF ITEM LISTED ABOUT 22- DECK BESIDE RC VENT 23- INSIDE ORANGE VENT DUCT IN OVER HEAD

PAGE 2 of Z

SMEAR RESULTS THE PM/100 CM2					O DETA III III RABAIII 100 CIVI					
NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	
								·		

RA - RADIATION AREA

CA - CONTAMINATION AREA

ALL DOSE RATES IN µrem/hr

RCA - RADIATION CONTROL AREA

AA - AIRBORNE AREA

NSS-01		SURVEY NO.	55-0065
Date 45-05 Time // 00	DOSERATE	CONTAMI	
Surveyor on as Scall	Inst. Type and lun 19	Beta Alpha	BetaAlpha
Signature man Acout	Serial No. 42972	Inst.Sn 90/37	
Reviewed By W grand	β Factor	Eff. /0°/0	
	4 Mik/m	Bkg. 🛩 cpm	cpm
AREA HOLD Deck Sto	11000rd & Port	<u>, </u>	
COMPONENT		Romanut	
1) MA/ha scmr	AFT AF	Alm scale 4×25	
H= 2x 25 B= 7x 25	18	38 x 50	
C= 7 x 25	اله د ما	12×25	1700
	160	18725 5x25	Strainwell Strainer
DM Readings	, ,	leading's	
(8)			
6	A Door to Hallu	my 7	0 IT
	D Town Containing	4 10	$\sim H_{\alpha}$
Lihih Room	will	₹_	(2) H (3)
3		Access	80 1
	(A) par	nei (II)	
	/C:1	- Woste	
	Od (Outwinder)	terpipe (8)	1 _
-ihin Room	#11	- wall of	
	O LOVENT #12	ontwiment	tn ⁵
(a) + (b)	EXMAUSI #12	Shield KHAtch	
	TAN	K HAten	
			0 11
	1 205.1	\ =	\equiv p_{ij}
Starboard = Estan	s to 14' Flut Deck -		= Port
SMEAR RESULTS IN DPM/100 CM2,	8 = BETA in mRAE		
NO. RESULTS NO. RESULT	S NO. RESULTS		NO. RESULTS ABKG
		1 CBKG 2 CBKG	10 2BKG
3 LBKG		3 < BKG	11 LBKG
4 < BK9 5 ~ BK9		4 6 BKG 5 2 BKG	12 - BKG
6 < 8 × 9		6 LBKG	
1 L BK9		7 < BKG	

RA - RADIATION AREA

CA - CONTAMINATION AREA

N.S. SAVANNAH

	F	RADIOLOGICAL S	SURVEY			
NSS-01			SUF	RVEY NO. 🔏	155-601	.6
Date 4-505 Time /	100,	DOSE RATE		CONTAM		
Surveyor Lower	Acres In:	st. Type/udley /	Beta_V	Alpha	Beta	Alpha
Signature man	Sect, Se	erial No. 42978	Inst.Sn	90137		
Reviewed (1875)	ennoch &	Factor	Eff.	0%		
	4	-MR/h	Bkg.4/	cpm		cpm
AREA 1-1all L	Nuy Inbetween	n Port +	sterbourd	on Hold	Dock	
	/ (Around	Containment)				<i>t</i>
COMPONENT						
<i>y</i>	#2 V4	live Hundle				
	#4 Dr	rainwell Strawer Hatch	!			
	# 5 1%5 # 6 Vul	lue Handle			Denhu	-0.[/
1 Steine Deripholy	#8 V	whe Hundles			Strain	
31.00	村10~	11 Contained Walls	1)			
	Glevater #121	11 Contained Wills Draywell Strawer Hald Insile Oranwell Straw	11 G	leuta [120	
(5) TK	7 & 1Cm & 12	TWING AMILIAN SALON		>> 1	13	
1				†		724
+	Value		\ V	rilves +		17
	V A					
Ø		\sim	(E) ⊗ _(g) ⊗	8		.
(6	(7)	0		()	5)
		6) &6			`	
	6 0 -	13)				
	3	TUNWE	Q	(c)		
				(4)	9/m	
. E	\checkmark			O	F)25mp/m	
·		1 1 1 A.		an (F)	7/
\bigcirc	X (0)	tailment &	Α,	Ø (\mathcal{I}	TW
•	•	Mal Floor Sunda			(
- Cotol	A = 34 X 25	ris Floor Sumples F= 25×25				
The state of the s	13=2×25	June DM	Readings		To	Dry
To Steward	C = 2 x 25/	- SCHIR	,			tores
stores	0 = 3 x 25/ E = 2 x 25	′				
				2		
SMEAR RESULTS AND		• B ■ BETA in ml	RAD/hr/100 (SM′		
<u> </u>	NO. RESULTS	NO. RESULTS	NO.	RESULTS	NO. R	ESULTS
	9 2BK9	· · · · · · · · · · · · · · · · · · ·			-	
	10 LBKG					
W < BKG	12 4 BKG					
5 < BKG	13 < BK9					
6 < BKG	14 < BKG 15 < BKG					
	73 PK7		i			

RA - RADIATION AREA

CA - CONTAMINATION AREA

NSS-01

SURVEY NO. NSS-0067

Date 4/6/05 Time 1:00	DOSE RATE	CONTAMINATION			
Surveyor Jm Scott	Inst. Type Lillum 19	Beta Alpha	BetaAlpha		
Signature Pan) It	Serial No. 95499	Inst.Sn 42972			
Reviewed Kale I Manuel	β ⁻ Factor	Eff. 10%			
	BKG 4MR/Ha	Bkg. Ңі 🍅 as cpm	cpm		

AREA Secondary Containment - B Deck AFT OF REMETOR

Storage

Storage

Storage

Track

Upper walkway

Ladder

Down

Lorge Pipe

DR< BKG/L 100 CPM FALER

SMEA	R RESULTS	IN DPM/10	00 CM²-	*B = BETA in mRAD/hr/100 CM ²					
NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS
1	< BKG	9	< BKG	17	~ BKG				
2	CBKG	10	ZBKG	13	4 BKG				
3	< BKG	it	2 Bkg	19	L BKG				
4	< BKG	12	4BKG	20	2 BkG				
5	-BKG	13	L BKG	71	L BKG				
<u> </u>	< BKG	14	< BKG						
1	4 BKG	15	4 BKG						
\$	< GKG	<u>l</u> b	< BKG	<u> </u>		<u> </u>			

RA - RADIATION AREA

CA - CONTAMINATION AREA

NSS-01

SURVEY NO. NSS - 0067

Date Time	DOSE RATE	C	CONTAMINATION				
Surveyor	Inst. Type	Beta Alph	a	BetaAlpha			
Signature	Serial No.	Inst.Sn					
Reviewed	β¯Factor	Eff.					
SECONDAR		Bkg.	cpm	cpm			

AREA_	/\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	1 CALLOTIN MICALL	DUECK	AFT OF	18 18 AC1 ON
		•		• •	
	0.1.E.1.E				
COMP	ONENT				

#1+#2 - Valve Controls

#3 - Large Valve Control

#4 - Side of Large Pipe

#6- Ludder Down

#7 - Handle for Pressure VESSE

#8- Removable Steel Coser

#9 - Containent Housing

#10- Value controls

#11- Side of Large Yellow Tunk #12- Side of Pressive Ucssille

13 - Top of Storage Cal.

#14- Chain on Chun Hoist

#15 - Main Part of (Main Hoist

21 Side of Reactor

SMEAF	R RESULTS +	N-DPM/10	9 -em²	8 -	8 = BETA in mRAD/III/100 CM2 •				
NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS

RA - RADIATION AREA

CA - CONTAMINATION AREA

NSS-01

SURVEY NO. NS5-0068

Date 4/6/05 Time 10:00	DOSE RATE	CONTAMINATION			
Surveyor Ben Such	Inst. Type Indlum 19	BetaAlpha			
Signature And	Serial No.95499	Inst.Sn 97416			
Reviewed Kuli Tyl ennog	β ⁻ Factor /	Eff. 10%			
	BKG 2 MR/H	Bkg. 中 () cpm cpm			

-112 Lab - ADeik

COMPONENT_

#2 - # - upper cabinets

#13 - Top of Scaler

14 - Counter infront of Scales

#16-Top of Scales

#17 - Counter in front of Scales

20 - Inside Reg. sink

#21 11

22 - Inside Hot SINK

23 - Top of Drain inside Hot Sink

24 - outside of trap of Hot Sink

#32-#38 - Lower Cabinets + Shelves

40 - Air Vent

41 - "

DM Readings

- 4 MR above Hot Sink

- 5 MR inside Hot SUK

CPM Readings

- 350 inside Hot sink

- Restot the Room < 100 CPM

* Smear No. 22 and 23 had activity levels above background

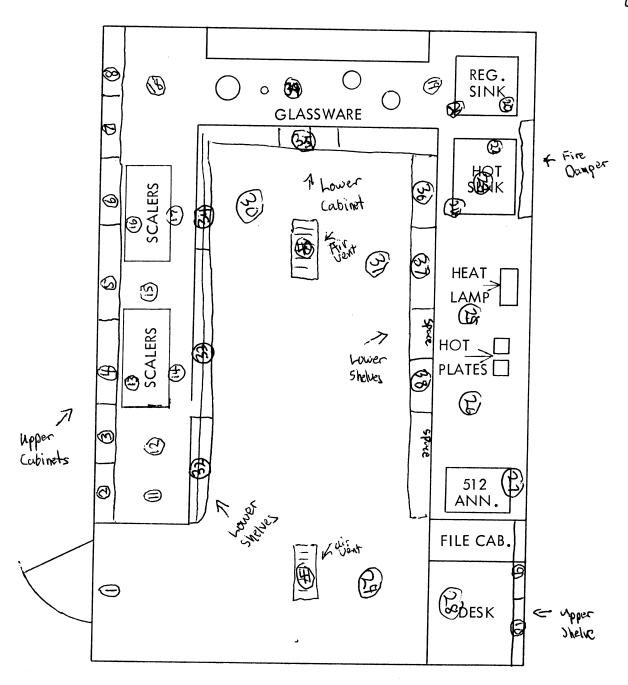
Smeat 23 Htodom/10 Counter #2 application counter # 1

SMEA	SMEAR RESULTS IN SPM/100 CM ² -B = BETA in mRAD/hii/100 CM ²										
NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS		
1	< BKG	9	4BKG	17	LBKG	25	- BKG	33	1 BKG		
2	< Bkg	\0	LBKG	18	~ BKG	26	1 BKG	34	Z BKG		
3	< BKG	11	LBKG	19	L BKG	27	L BKG	35~	4 BKG		
4	< BKG	12	LBKG	20	LBKG	28	1 BKG	36	L BkG		
	< BKG	13	< BKG	21	L BKG	29	< BKG	31	4BKG		
6	LBKG	14	<bkg< td=""><td>22.</td><td>LB 100</td><td>30</td><td>-BKG</td><td>28</td><td>LBKG</td></bkg<>	22.	LB 100	30	-BKG	28	LBKG		
7	LBKG	15	< BKG	23*	148	31	4 BKG	34	~ BKG		
8_	< BKG	16	< BKG	24	LBKG	32	< BKG	40	LBKG		
		1	1 01-								

RA - RADIATION AREA

CA -- CONTAMINATION AREA

ALL DOSE RATES IN µrem/h 41 2 BKG

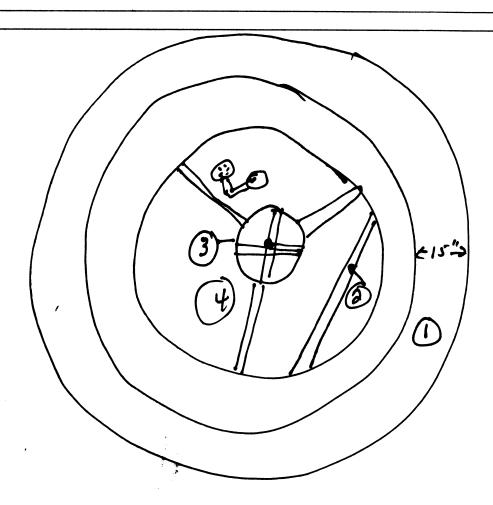


TSC-ND-147

NSS-01	SURVEY NO. <u>NSS-6069</u>									
Date 4705 ime 900	DOSERATE	CONTAMINATION								
Surveyor Surveyor Cox	Inst. Type adam 19	Beta_VAlpha	BetaAlpha							
Signature water	Serial No 35469	Inst.Sn 75869								
Reviewed Role Munual	B-Factor 2/UR/	Eff. 10 %								
J3	CPML 100	Bkg. 20 cpm	cpm							
AREA CONTAINMENT VISSUEL, P/UB +										
j'NSIDE	HATCA CON	roces								
		_								

1 "Inside phymall 2- hand handle 3- wheel 4- under wheel 5- on suage

15 NR h@ 5 498e



SMEA	SMEAR RESULTS ************************************										
NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS		
1	L BKG										
2	LBKG LBKG LBKG			7							
3.	LBKG										
4	L BKG < BKG										
5	< BKG										
											
				L		I					

RA - RADIATION AREA

CA - CONTAMINATION AREA

NSS-01 SURVEY NO. NSs - 60 70 Date 4 - 7 - 05 Time CONTAMINATION DOSE RATE Beta 🟏 Alpha Inst. Type LUDLUM Alpha Serial No. 95499 Signature Inst.Sn 97416 Reviewed **B**Factor Eff. 10%0 4uR/HR Bkg. "D" DECK RADIATION SAMPLING RM GAS ADSORPTION WASTE STOWAGE RM ACCESS THROUGH "C" DECIC, COLD WATER CHEMISTAY LAB COMPONENT SWIPES RADIATION SAMPLING 1. INSIDO WASTESTORAGE DEK STBD 2 TOP SHOLF " 3. 2ND SHOU 4. 3RP UTH 6. BiTTom: 7 ENTER DOOR KNOB 8. DKRADIATION SAMPLEM PORTONTBD INSIDE HANGING VONT DUCT - AUX REACTOR OPENING 10: INSIDE OPOSTE BUD VENT JUT3 11. DK AT WASTE STERAGE DOOR 12 FILTER # (ANS TOR FANGLE 204 R X10 3. FILTOX # ICANISTOR FLANGE 4 TOP of AUX REACTOR PLUG (XP WASTE 15, ELECT SWITCH PANEL STODSING 16 DECK UNDER SWITH PANEL 17. INSIDE SAMPLE SINK PORT GAS ADSORPTION EQUIP RM BETA in mRAD/hr/100 CMF RESULTS RESULTS NO. RESULTS NO RESULTS RESULTS NO. 1BKG LBK9 < BKG RA - RADIATION AREA CA - CONTAMINATION AREA ALL DOSE RATES IN urem/hr Eff.

427

854

20.8%

RCA - RADIATION CONTROL AREA

AA - AIRBORNE AREA

NSS-01

SURVEY NO. NSS- 6671

Date 4/8/05 Time	DOSE RATE	CONTAMINATION				
Surveyor Trans H. LOVEDAHL	Inst. Type LUDLUM	BetaA	lpha			
Signature Journel Loyal	Serial No. 95499	Inst.Sn 97416				
Reviewed Kalif & Rumah	β ⁻ Factor	Eff. 10%				
	HUR/HR	Bkg. <i>30</i> cpm	cpm			

AREA "C" DECK LEVEL UNDER UPPER LEVEL OF SECONDARY
CONTAINMENT

COMPONENT_

SWIPES AL DOOR HANDLE TO COLD WIR CHEM LAB PORT

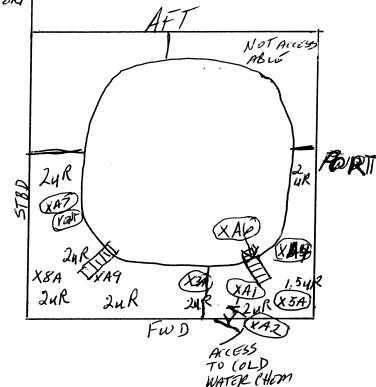
A2- DECK AT ALLESS DOOR

A3. HAND RAIL AT DOOR A4-REACTOR COOLING-VALUE FLANGE PORT

A5 DECK FWD PORT

AG. PORT FWO LADDER

A7- VENT OPENING A8- VENT MOTOR A9. STBD FWD LADDER



LAB.

No FRISICING

SMEAR	R RESULTS +	N DPM/10	о см³	8 = BETA in mRAD/hr/100 CM ²					
NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS
AI	LBKG	A9	LBKG						
AZ	LBKG								
A3	LBKG								
A4	2 BKG								
A 5	- BKG								
46	LBKG LBKG								
A8	-BKG								

RA - RADIATION AREA

CA - CONTAMINATION AREA

NSS-01 SURVEY NO. 1/55-0072

Date 4-8-05 ime			
	DOSE RATE	CONTAMI	NATION
Surveyor JAMUS H. LOKE	DAH Inst. Type LUDLUM	Beta Alpha	BetaAlpha
Signature Rema W. Long	Serial No. 95499	Inst.Sn 97416	
Reviewed Hale & emmel	βFactor	Eff. 10%	
	HUR/HR	Bkg. 30cpm	cpm
AREA "B" DECK UI	PER LEVEL SEIC	ONDARY CONTA	INMENIT AROS
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,	ing com	HOME TO THE
COMPONENT			
•			
. FWD PORT DECK AT LADDER	-		FT PRIMAR
		H.	FT PRIMAT
FWD PORT DAK UNDER VER	· · · · · · · · · · · · · · · · · · ·	200	24R/
	1 31 10 10 54 4 1 / 21/ 50		
NUHD CHAIN ENIT CLAMPH	ANDLE OVER DEMINOCOVER	Augh	2475
. OVAD CHAIN FALL CLAMPH	ANDLE OVER DEMINO COVER		
			24R
AFT CHAIN ON CHAIN FAIL		1 /	24R
AFT CHAIN ON CHAIN FAIL		248	
FUD CHAIN ON CHAIN FALL		1 /	24R (X14) (X13)
. OVHD CHAIN FALL CLAMPH. . AFT CHAIN ON CHANN FALL . FWD CHAIN ON CHAIN FALL . TOP OF DEMIN. COVER		248	24R (X14) (X13)
AFT CHAIN ON CHAIN FAIL FWD CHAIN ON CHAIN FALL TOP OF DEMIN. COVER		Zur	2 24R XI4 XI3 2 ROD 2 4 R XI3
AFT CHAIN ON CHAIN FALL FWD CHAIN ON CHAIN FALL TOP OF DEMIN. COVER BWD VERT LADDER TO	A Deck	Zur	2 24R XI4 XI3 2 ROD 2 4 R XI3
AFT CHAIN ON CHAIN FAIL FWD CHAIN ON CHAIN FALL TOP OF DEMIN. COVER	A Deck	248	2 24R XI4 XI3 2 ROD 2 4 R XI3
AFT CHAIN ON CHAIN FALL FWD CHAIN ON CHAIN FALL TOP OF DEMIN. COVER BWD VERT LADDER TO DECK AT STBD LL LADD	A Deck	Zur	2 24R (X14) (X13) 2 ROD 2 4 R (X13)
AFT CHAIN ON CHANN FALL FWD CHAIN ON CHAIN FALL TOP OF DEMIN. COVER BWD VERT LADDER TO DECK AT STBD LL LADD DECK STBD OF CRDC	A Deck	Zur	2 24R (X14) (X13) 2 ROD 2 4 R (X13)
AFT CHAIN ON CHANN FALL FWD CHAIN ON CHAIN FALL TOP OF DEMIN. COVER BWD VERT LADDER TO DECK AT STBD LL LADD DECK STBD OF CRDC	A Deck	Zur	2 24R (X14) (X13) 2 ROD 2 4 R (X13)
AFT CHAIN ON CHAIN FALL FWD CHAIN ON CHAIN FALL TOP OF DEMIN. COVER FWD VERT LADDER TO DECK AT STBD LL LADD DECK STBD OF CRDC VERTH OP FWD LADDER	A DECK DER FWD.	24R CONT DRIVE	2 24R (X14) (X13) 2 ROD 2 4 R (X13)
AFT CHAIN ON CHAIN FALL FWD CHAIN ON CHAIN FALL TOP OF DEMIN. COVER FWD VERT LADDER TO DECK AT STBD LL LADD DECK STBD OF CRDC VERTH OP FWD LADDER	A DECK DER FWD.	Zur	2 24R (X14) (X13) 2 ROD 2 4 R (X13)
AFT CHAIN ON CHAIN FALL FWD CHAIN ON CHAIN FALL TOP OF DEMIN. COVER FWD VERT LADDER TO, DECK AT STBD LL LADD DECK STBD OF CRDC FERSH OP FWD LADDER FWD. INLET/OUTLET VALUE P	A DECK DER FWD.	ZUR CONT DRIVE	24R XI4) XI3 24R 24R 24R 21R 21R 21R 21R 21R 21R 21R 21
AFT CHAIN ON CHAIN FALL FWD CHAIN ON CHAIN FALL TOP OF DEMIN. COVER FWD VERT LADDER TO, DECK AT STBD LL LADD DECK STBD OF CRDC FERSH OP FWD LADDER FWD. INLET/OUTLET VALUE P	A DECK DER FWD.	24R CONT DRIVE	24R XI4) XI3 24R 24R 24R 21R 21R 21R 21R 21R 21R 21R 21
AFT CHAIN ON CHAIN FALL FWD CHAIN ON CHAIN FALL TOP OF DEMIN. COVER BWD VERT LADDER TO DECK AT STBD LL LADD DECK STBD OF CRDC VERTH OP FWD LADDER	A DECK DER FWD. FLANGE & GLAND DAMPER STAD FWD.	ZUR CONT DRIVE	24R (X14) (X13) 24R (X14) (X13) 24R (X13) 24R (X13) 312R (X2)

NO FRISKING

14. PORT AFT DECK TO LL 15. VENT DUCT OPENING PORT OF CRDE

SMEA	R RESULTS .	IN DPM/16	0 0M²	æ	DETA in mRA	\D/hr/100	CM²		
NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS
i	2BKG	9	L BKG		·				
2	< Bkg	10	4BKG						
3	< BKG	11	LBKG						
4	4 BKG	12	4 BKG						
5	~ BKG	13	< BKG						
6	LBKG	14	L BKG						
7	-BKG	15	< BKG						
8	< BKG		•						

RA - RADIATION AREA

CA - CONTAMINATION AREA

NSS-01

SURVEY NO.<u>N/Ss-0073</u>

Date 4/8/05 Time	DOSE RATE	CONTAMINATION			
Surveyor JAMES H. LOVEDAHL	Inst. Type LuDLum	BetaAlphaBetaAlpha			
Signature on North	Serial No. 95 499	Inst.Sn 974/6			
Reviewed	β ⁻ Factor	Eff. 10%			
	YUR/AR	Bkg. 30 cpm cpm			

AREA "A" DECK ABOVE SECONDARY CONTAINMENT

COMPONENT

SUIPES

1B. RAIL ON FWD BABB ACCESS LADDER

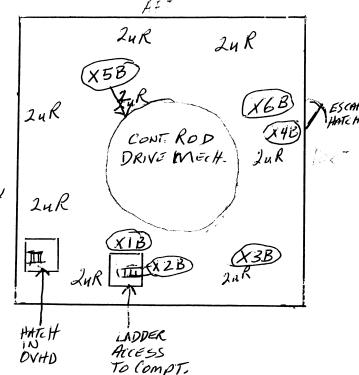
2B. DECK AT ACCESS LADDER

3B. ESCAPE HATCH HANDLE

4B. DECK AT ESCAPE HATCH

3B. RINGGASKET SEAL ON CRDM

6B. VENT DURK ON STEIPENT AT HATCH



FRISK < 100 CPM

SMEA	R RESULTS +	N DPM/100	o em²	B==	BETA in mRA	D/hr/10(CM²		
NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS
İB	LBKG								
213	LBK6								
3B	4 BKG								
48	< BKG								
5B_	~BKG	<u> </u>		ļi					
6B	< BKG								
				L					

RA - RADIATION AREA

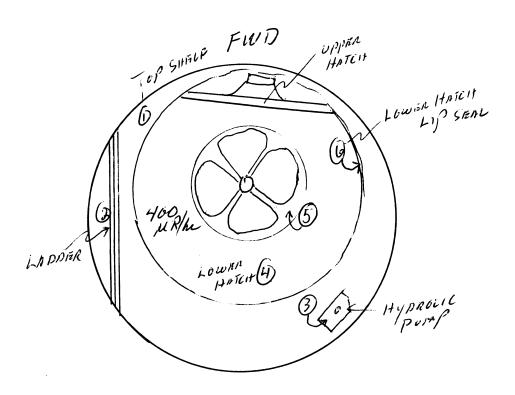
CA - CONTAMINATION AREA

NSS-01

SURVEY NO. /\55-0014

Date 4-8-65 Time 1;00 7M	DOSE RATE	CONTAMIN	IATION
Surveyor CRADDUCK	Inst. Type Ludium MI	Beta Alpha	BetaAlpha
Signature (Colorle	Serial No. 95499	Inst.Sn 974/6	
Reviewed Re ht & Rumosh	β ⁻ Factor	Eff. 10%	
	BKG YUR/In	Bkg. 30 cpm	cpm

AREA_	PRIMIE	CONTINIMINIAT	An hour
COMP	ONENT		
		•	



SMEAR RESULTS THE PINITION CIVIT									
NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS
1	~BKG								
7	< BK6 < BK6								
3	X BKG								The state of the s
4	LBKG LBKG						***************************************		
5	LBKC-								
<u> </u>	< BK6				V-4-4-1				
		1							

RA - RADIATION AREA

CA - CONTAMINATION AREA

NSS-01		SURVEY NO. NS.	5-0075
Date 4-8-05 Time 1300	DOSE RATE	CONTAMIN	NATION
Surveyor Scott / Bower	Inst. Type us/ gun/9	BetaAlpha	BetaAlpha
Signature amou Scaff	Serial No.42972	Inst.Sn	
Reviewed how Welman	18 Factor BIXG-LIOU	Eff.	
	2 MR/h	Bkg. cpm	cpm
AREA Secondary Cont 14	FT-MEZZINE	& Lower as	CA .
	(min (ove/)	/	
COMPONENT			
Genaral Area dosc	ı		
Eleckschane (20 UP/hC	(2) (2)A1	5D-41 ower ~A
	willy		*

RESULTS +	N DPIMITS	o-GM ²	8 -	- BETA in mR/	\D/hr/100	CM² -		
RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS
LBKC	9	LRKG						
LBKG	10	~BKG						
LBKG					İ			
			ļ					
								
ZBKG ZBKG					i		i	
	RESULTS LBKG LBKG LBKG LBKG LBKG LBKG	RESULTS NO. LBKC LBKC LBKG LBKG LBKG LBKG LBKG	LBKG 9 LBKG LBKG LBKG LBKG LBKG LBKG LBKG LBKG	RESULTS NO. RESULTS NO. LBKG LBKG LBKG LBKG LBKG LBKG LBKG LBK	RESULTS NO RESULTS NO RESULTS LBKG LBKG LBKG LBKG LBKG LBKG LBKG LBK	RESULTS NO. RESULTS NO. RESULTS NO. LBKG LBKG LBKG LBKG LBKG LBKG LBKG LBK	RESULTS NO. RESULTS NO. RESULTS LBKG LBKG LBKG LBKG LBKG LBKG LBKG LBK	RESULTS NO. RESULTS NO. RESULTS NO. RESULTS NO. LBKG LBKG LBKG LBKG LBKG LBKG LBKG LBK

RA - RADIATION AREA

CA - CONTAMINATION AREA

7 7

DURATEC 28991 TRLETECTOR

N.S. SAVANNAH RADIOLOGICAL SURVEY

Surveyor Scott Problems Type Dose Rate Surveyor Scott Problems Type Dose 19 Sero Alpha Bero Alpha	NSS-01	BOWEN /	SURVEY NO. 1/2	55-6076
Signature Scar Serial No. 449 72 Inst. Sn Reviewed Collis Country Strate Strat	Date+-8-05 Time 14-00		CONTAM	NATION
Signature Courte Serial No. 42972. Inst Sn Reviewed (Roll France) (B) Eff BKG - 150 M Bkg cpm cpm AREA LOWER REACTOR SECONDARY CONTRINENT COMPONENT SURVEY CONTRINENT COMPONENT SURVEY CONTRINENT (A) High Handle ATTENTION OF THE CONTRINENT SIMPLE CONTRIBUTE CONTRIBUTE (A) High Handle CONTRIBUTE CONTRIBUTE CONTRIBUTE CONTRIBUTE CONTRIBUTE SUMPOIL SMEAR RESULTS MO RESULTS NO RESULTS NO RESULTS A CKG 15 - 6KG 15 - 6KG C - 6KG 15 - 6KG C - 6KG 15 - 6KG C - 6KG 15 - 6KG C - 6KG	Surveyor Scott-Box	Inst. Type Lun /	Beta Alpha	BetaAlpha
Reviewed Polition By By Com Com AREA LOWER REACTOR Secondary Containent COMPONENT SURVEY Counter Clarkwise Component Survey Counter Clarkwise (Air hand) Containing Containi				
AREA LOWER REACTOR Secondary Containent COMPONENT SURVEY COUNTER CLARWISE (HIT have I would Demin. Inne WAINE HANDLE WATER From IN VALUE ON THE LOWER SUMP OIL		β ⁻ Factor	Eff.	
AREA LOWER REACTOR Secondary Containent COMPONENT SURVEY COUNTER CLARWISE (Attribute) Walke Handle THANDRAIT DO SITUATION ON YORK LEFT MALE FROM NO RESULTS NO RESULTS NO RESULTS NO RESULTS NO RESULTS NO RESULTS NO RESULTS NO RESULTS NO RESULTS NO RESULTS NO RESULTS O R	V W L V V V V V V V V V V V V V V V V V	BKG C +OOR	Bkg. cpm	cpm
SMEAR RESULTS HOPPITOUCH BESULTS NO RESULTS	AREA LOWER REACTOR			
WALLE Handle WALL Handle WATERIA ON VAILE AN VAILE AN VAILE AN VAILE AN VAILE AND AN VAILE AND AN VAILE AND AN VAILE AND AND AND AND AND AND AND AN		- Recordary C	ON TANK JEAN	
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SMEAR RESULTS *** DP M/TOU CM** SMEAR RESULTS *** DP M/TOU CM** NO RESULTS NO. RESULTS NO. RESULTS NO. RESULTS / - GKG // - GKG	DEL H		\ \\	F-1 (10° -1
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SMEAR RESULTS **** *******************************	10 62	•	\	
SMEAR RESULTS *** DPM/TOUCH!* SMEAR RESULTS *** DPM/TOUCH!* *** *** *** *** *** *** ***			1 [6]	3/ 1/7 /VC
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SMEAR RESULTS NO RESULTS NO	134120	•		7
SMEAR RESULTS NO RESULTS NO		·	1	
SMEAR RESULTS *** *** *** *** *** *** *** *** *** *	154		/ 1	
SMEAR RESULTS *** *** *** *** *** *** *** *** *** *				
SMEAR RESULTS *** BPM/100 CM** NO. RESULTS NO. RESULTS NO. RESULTS NO. RESULTS / - BKG 9 BKG 2 - BKG 10 BKG 2 - BKG 11 BKG 4 - BKG 13 - BKG 5 - BKG 13 - BKG 6 - BKG 14 - BKG	WARY	17	DI COURR	
SMEAR RESULTS *** *** *** *** *** *** *** *** *** *	netile!		Wi off	CAC
SMEAR RESULTS *** *** *** *** *** *** *** *** *** *	ALCO LA			4 /2.
SMEAR RESULTS *** *** *** *** *** *** *** *** *** *	. (SUMP OF		1
NO. RESULTS NO. RESULTS NO. RESULTS NO. RESULTS / - BKG				1
NO. RESULTS NO. RESULTS NO. RESULTS NO. RESULTS / - BKG		·	- W	
NO. RESULTS NO. RESULTS NO. RESULTS NO. RESULTS / - BKG				
NO. RESULTS NO. RESULTS NO. RESULTS NO. RESULTS / - BKG	SMEAR RESULTS ALBORITOR	-R - RETA in mD	D/1-/100 CM ²	
/ - BKG 9* - BKG 2 < BKG 10 - CBKG 3 - C BKG 11* - L BKG 4 - C BKG 12 - C BKG 5 - C BKG 13 - C BKG 6 - C BKG 14 < BKG				NO DEC. 11 TO
2 < BKG 10			NO. RESULTS	NO. RESULTS
2 LBKG 11 LBKG 4 LBKG 12 LBKG 5 LBKG 13 CBKG 6 LBKG 14 CBKG			<u> </u>	
4 C BKG 12 CBKG 5 C BKG 13 C BKG 6 C BKG 14 C BKG				
\$	3, LBKG 11 LBKC)		
2 < BKG 14 < BKG				
6 < BKG 14 < BKG	5 4 BKG 13 4 BKG			
7 LKKG 1 /3 KKG 1	7 - BK9 15 - BKG			
Q LRKG				

RA - RADIATION AREA

CA -- CONTAMINATION AREA

ALL DOSE RATES IN µrein/hr

RCA - RADIATION CONTROL AREA

AA – AIRBORNE AREA

ALSO USED DURATEC Z 899 TELETECTOR

Date4-805 Time 1400				5-0076
	DOSE RATE		CONTAMIN	
Surveyor SCOTT - BQWDEN	Inst. Type uD/un /	Beta_V	lpha	BetaAlpha
signer and Acad	Serial No. 42972	Inst.Sri		
Reviewed (Xolo 44/ennoch	& Factor	Eff.		
	3KG-2125	Bkg.	cpm	cpm
AREA SURVEY N	lotES			
,		87 AI	251	
COMPONENT LOWER C	ONTAIN MEN		X 17	
ZZIMRAN LEVEL- /	4 1.6 MR	Br		
-3 HANKS	400 - 600	LAB W.	ASTE TA	ins)
THE TOWN !	414 - 400.	- (A)	1.01	1/
AD WISIE	THNK-6	DO M	9/1-	14- 1-
60 MR/hT < Lan	- 1- 11.11.10	1 -5		
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Relief Voil		1	/	I ON
Relig Voil		1	/	I ON
Relief Voil		1	/	I ON
Relief Val. FORWARD REA PORT Aft GENERAL OKT SIX Gen. Are.	AHOR GO Area WALL ON PORT A-60-80 MA	1	/	I ON
HOOMRINISHER RECORDED REAL FORWARD REAL PORT Aft GENERAL OFT SIDE GEN. ARE MEAR RESULTS IN O. RESULTS	POINS UN RATOR 60 AreA (WALL ON PORT A-60-80 MR B-BETAINMR	(00 to 1 DEP 1 -80 -51 De) - 2/h/ AD/Hr/100 CM²	/	VESSE / Ly 130-15 M. Area - La A EL/hr
Religion STAR Religion Star FORWARD REA PORT Aft GENERA PENEMATION HESTO WEAR RESULTS INDPONITIONS	POING UN RATOR 60 AreA (WALL ON PORT A-60-80 MX	(00 to 1 DEP 1 -80 -51 De) - 2/h/ AD/Hr/100 CM²	AFT GO	VESSE / LY 130-15 M. Aren - La A EL/hr
PORWARD REAL PORT Aft GENERAL PORT SIDE GEN. ARE MEAR RESULTS INDEMINIOUS CM.	POING UN RATOR 60 AreA (WALL ON PORT A-60-80 MX	(00 to 1 DEP 1 -80 -51 De) - 2/h/ AD/Hr/100 CM²	AFT GO	VESSE / LY 130-15 M. Aren - La A EL/hr
Religion STAR Religion Star FORWARD REA PORT Aft GENERA PENEMATION SESTE MEAR RESULTS INDEMINIOUS CM?	POING UN RATOR 60 AreA (WALL ON PORT A-60-80 MX	(00 to 1 DEP 1 -80 -51 De) - 2/h/ AD/Hr/100 CM²	AFT GO	VESSE / LY 130-15 M. Aren - La A EL/hr

	RADIOLOGICAL SU	IKVEY	
NSS-01		SURVEY NO.	V55-0077
Date 4/1/05 Time 8:45	DOSE RATE		MINATION
Surveyor Ben Scott	Inst. Type Ludian 14	Beta Alpha	BetaAlpha
Signature By 2	Serial No. 95499	Inst.Sn 37416	
Reviewed Ralet Element	β-Factor	Eff. 10%	
•	•	Bkg. 30 cpm	cpm
AREA Primary Cont	. Hatch (Lower		hatch
to Princy containment		The STILL SERVE	to at this faint
COMPONENT			
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	but		
1 Markon Lin Pon		\ DM F	Reading
1 - Under Lip Ring			
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		/ /	1
	(3)		
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	Sterboard		
	J101 60000		
SMEAR RESULTS IN DPM/100 CM2	8 - BETA in mR/		NO 55011155
NO. RESULTS NO. RESU	JLTS NO. RESULTS	NO. RESULTS	NO. RESULTS
2 < BKG			
3 < BKG			
4 LBKG			

RA - RADIATION AREA

CA - CONTAMINATION AREA

ALL DOSE RATES IN µrem/hr

RCA - RADIATION CONTROL AREA

AA – AIRBORNE AREA

NSS-01	SURVEY NO.	1/55-0078

Date 4/11/05 Time	DOSE RATE	(CONTAMINATION					
Surveyor J. Bowen	Inst. Type	Beta Alp	oha	BetaAlpha				
Signature // W.	Serial No.	Inst.Sn						
Reviewed	β ⁻ Factor	Eff.						
		Bkg.	cpm	cpm				
AREA PRIMARY COM	TAIM MENDO	IST LIZUIL	(f.	P/199 0 0 0				

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				 ···				
COMPONENT								
	*			 				

Upon 1st Entry - General Location Smears - No map - Perform Rough Assessment - Detail Survey WILL FOLLOW. JUB

#11 250 dpm - < 1000 dpm / 100 0002

SMEA	R RESULTS •	IN DPM/10	10 CM²	→ 'B = BETA in πRAD/hr/100 CM²							
NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS		
1	< BKGD	9	LBKG								
7_	4 BKGD	10	< BKG								
3	4 BKGD	11	47 cts								
4	4 BKG	12	LBKG								
5	LBKG	/3	< BKG								
6	4 BKG	14	4 BKG								
7	-8KG	15	total 3 let								
B	< BKG										

RA - RADIATION AREA

CA - CONTAMINATION AREA

NSS-01						S	URVEY NO). <i>NS5</i>	-6079		
Date 4/-/	14-05 Time	9 AM		DOSE	RATE		CON	TAMINAT	ION		
Surveyor	RIBI PRAN	MOELL	Inst.	Туре	NIA	Beta_	Alpha	Ве	taAlp	oha	1
Signature	Polity	Zum	nh Seri	al No.		Inst.5	on (See	Bolow	<u>い)</u>		
Reviewed	148	Tils	Z β-F	actor		Eff.					
				·····		Bkg.	C	pm		cpm	
AREA	PRIMA	1211 (OMTAINSFAM.	ul .	15 Î LIE UN	1 /08	WIRD				
COMPON	ENT	RR 51	MANNETONE S	بهروزوں خ	CT ASKI	45 72	on Suri	1127 No	irpu:		
MEDI CON 55 L FLOO	VALUAS UM SIZI TAMIMA IMIZI A V	OFF View. THO	CR OF PRES. 45 TO RT. VALVING OF TO RTOF	or PA ON FO PAIRS	1785VR16 LUUR 55		13- PAR 28- 3B F-	icour i	HZ Bet PIPIE. RTOF (1600 F 20.8 PIPEU 2 RTOF COMTA	4. 4. 4. Us of Top
84 <i>P</i> Sample +	L Co	unter	gruss	1.	gross Cpm	BKG cpm	l Net cpm	<u>dpm</u>	_ _m		
	•	2	52		104	42	62	298	3	Sine	ir #5
•		ì	50	j	00	37	63	25	•	1	un Count
3	•	2	68			42	94	45.	ζ	2.8	twity = 3 dpm/wacaz
5		ı	171	. 3	142	37	94 305	121	0	Sne	mod mod
4 Smear	# 5(F	-10cm)	x = 77.8	° 330	67	Smear	- # 4 (ss	lines)	x = 19	B=6	701
SMEAR R		DPM/100	·····		BETA in m		_				
NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RES	ULTS	

C	min	ct
7 :	(ó i	

SMEA	R RESULTS	N DPM/10	O CM ²	B = BETA in mRAD/hr/100 CM ²						
NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	
1x	52 (2*)	VA	4 BKG	9A	LBKG	113	4 BKG			
Ì	4BKG	2 X	LBKG	IOA	ZBRGA	入B	X BKG			
2	- BKG	3A	LBKG		ZuB	3 B	< BKG			
3	50(1)	4A	XBKG			413	~ BKC	-		
4	68(2)	5A	1-8×6		· · · · · · · · · · · · · · · · · · ·	5B	< BKG			
5	171(1)	<i>bH</i>	- BRX **	70						
1 38 F	∠ BKG	7A 8A	2 BKG 2	M5						

RA-RADIATION AREA

CA - CONTAMINATION AREA ALL DOSE RATES IN µrem/hr

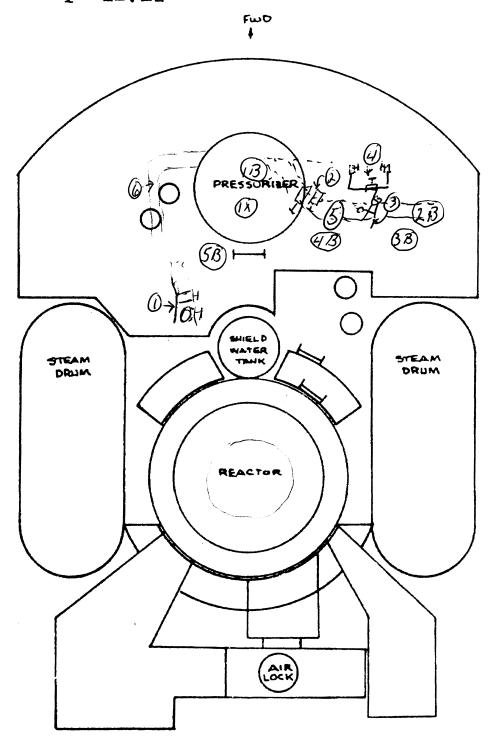
RCA - RADIATION CONTROL AREA AA - AIRBORNE AREA ** - See * Instrument (Counter) #1

Inst. Type:

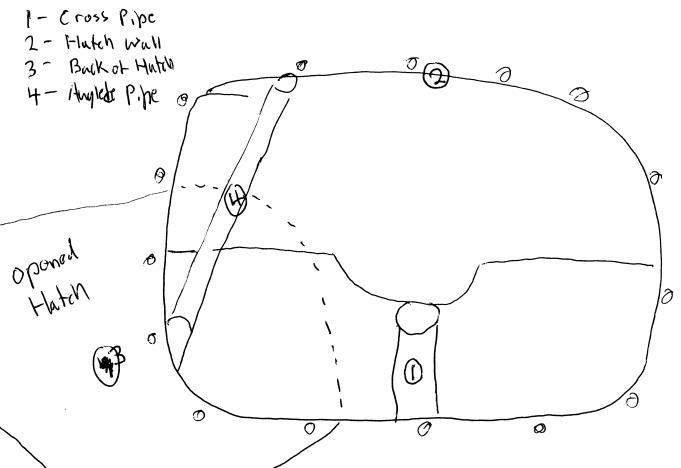
Probe:

Cal. Date:

CONTAINMENT VESSEL



NSS-01			SUR	VEY NO. 🕢	55-008	6_
Date 0 4/Wos Time 2:00	DOSE RA	ATE	CONTAMINATION			
Surveyor Ben Siott	Inst. Type	<u> </u>	Beta	Alpha	Beta	_Alpha
Signature Bug) ~	Serial No.	H	Inst.Sn	/\		
Reviewed	β ⁻ Factor	// \	Eff.	MIX		
			Bkg.	cpm		cpm
AREA Steam Cond.	Hatch (Ex	ngine R	com)			
						
COMPONENT						
		· · · · · · · · · · · · · · · · · · ·				
Cross Pipe						
Flatch wall						



SMEAR RESULTS IN DPM/100 CM			B = BETA in mRAD/hr/100 GM ²						
NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS
i	~BKG								
<u>, 3</u>	< BKG < BKG								
3									
4	< BKG								
									1

RA - RADIATION AREA

CA - CONTAMINATION AREA

NSS-01

SURVEY NO. NSS- 6081

		20.11.10.21	22 000
Date 4/11/05Time 1100 Am	DOSE RATE	CONTAM	IINATION
Surveyor JAMES LOVEDAHL	Inst. Type LUDLUM	Beta_v Alpha	BetaAlpha
Signature un Sacht	Serial No. 95469	Inst.Sn 97416	
Reviewed Ray Elemon	β ⁻ Factor	Eff. 10 07/2	
	HAMR BURK	Bkg. 30 cpm	cpm
AREA "D" DECK HOT	CHEM LAB	AT CONTROL	Room
COMPONENT Seal # 7603	3		
SWIPES		Forward	
1 Sink		¥2	
2 Inside Collection tomk (worte) ((369 day/10002)	X10 X2)	•
3 Top of countertop	· / [<u>%</u> 2	23 X3 X24	
4 Inside Hood	X .	26	XIC XIZ
5 Outside Hood Door	2 1 1 116	<u>1</u> 1	x11 x14 5to
	דוֹאַ אַ	x 13	125.75
6 Aft countertop	418		
7 1st Shelt inside Att Counterfor	x19		X14 X15
8 200 Shelf inside Aft compertup		_	143
9 Bottom Shelf"	· I	(28 X6 X7	
10 Top Shelt under Hood		(28 X 6 X 7)	
: 11 Bottom"	,	Aft	
12 Hood Vent	#19 Botton		#29 Light Switch
13 Overhead Vent	# 20 Top She	K Famurah	#30 Inside Due-1
14 Shelf Aft of Flood (top)	# A Wille	Shek Escuard	
15 11 (Butom)	# 22 Drain w	nder somplic sink shelt under sink — (3 shelf Forund	W. day (2)
16 Port Top Shelf 17 Port Top of Cabinet	# LS BOTTOM	shelf Francish — ()	mo oo I mig to ur
11 Port Top of Cabinet	# 125 Floor	in trant at Hocil	
:18 Middle shelf Portside	# 26 Floor in	Front of Sompk Sink	
DM Rendings K BKG	サイン UCik 1	infront of Door	
SMEAR RESULTS IN DPM/100 CM2 M 4			
NO. RESULTS NO. RESULT		NO. RESULTS	NO. RESULTS
1 -BKG 9 -BKG	17 < BKG	25 < Bkg	
2 65,ts 10 LBK9	18 < BKG	26 LBKG	
3 (BKG 11 6BKG 4 6BKG 12 6BKG	19 - BKG 20 - BKG	27 < BKG 28 < BKG	
	21 LBKG	29 < BKG 30 < BKG	
6 LBKG 14 LBKG 7 LBKG 15 LBKG	22 - BKG 23 57cts	30 < BKG	

CA - CONTAMINATION AREA ALL DOSE RATES IN µrem/hr RA - RADIATION AREA Net cts AA - AIRBORNE AREA RCA - RADIATION CONTROL AREA 130 37 43 369 13 57 72 114 241

N.	10	S-	Λ	1
- 1 \	o	J-	u	- 1

SURVEY NO. NSS-0082

Date 1205 Time 1000	DOSE RATE	CONTAMINATION			
Surveyor BOWEN SCOTT	Inst. Type/E/R	Beta	Alpha	BetaAlpha	
Signature A ACTIO	Serial No. Distretor	Inst.Sn			
Reviewed Kalet Il Junior	β-Factor 28991	Eff.			
		Bkg.	cpm	cpm	
AREA				0,,	
PRIMARY				- }	
COMPONENT ON FAIR	INENT VE	55R1	32	D / EUZ	
			41	/	
CER DRAWIN	i C.		,	•	

* SMEATS From Containment - 15 LVL.

AFT. DATA MOUTED TO APPROPRIATE SCHURY

SMEAR RESULTS IN DPM/100 CM ² -B = BETA in mRAD/hr/100 CM ²									
NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS
IA	LBKG	9A	-BKG *	É	4BKG				
JA	< BKG	ioA	1 BRUSES	_7_	LBKG				
JA 3A	< BKG			8	LBKG.				
4A	< BKG		~BKG	9	LBKG				
34	LBKG	2	LBKG	10	L BKG				
GA	GKG	3	LBKG				.,		
7A	< BR 27	4	LBKG		<u> </u>	 			
BA	< BKG	5	< BKG		<u> </u>				

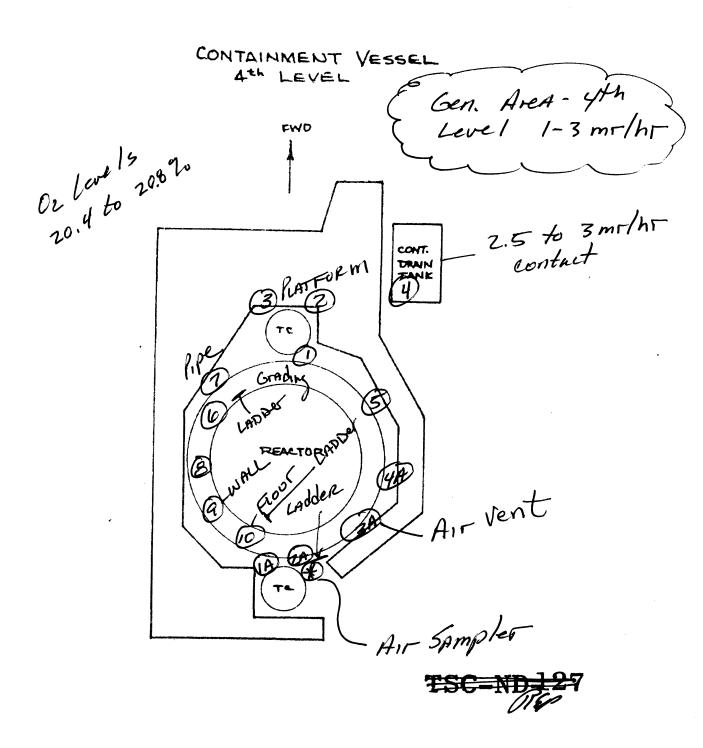
RA - RADIATION AREA

CA - CONTAMINATION AREA

ALL DOSE RATES IN µrem/hr

RCA - RADIATION CONTROL AREA

AA – AIRBORNE AREA



NSS-01

SURVEY NO. NSS-0083

Date 4-12-05 Time 1000	DOSE RATE	CONTAMINATION				
Surveyor Bowen Scott	Inst. Type TECE	BetaAlpha	BetaAlpha			
Signature Mw. 3.	Serial No. Detector	Inst.Sn ///				
Reviewed No W Nermon	β ⁻ Factor 28991	Eff.				
		Bkg. cpm	cpm			
AREA Confarment PRIMITE COMPONENT	Vessel 1st	leve l				
SEE ATTACHED DANWING SN 95469						

SMEAR RESULTS **N DPM/180 CM2 -				B = BETA in mRAD/hr/100 CM ²					
NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS
5A	< BKC								
GA	< BKC								
	4 B K G								
8A	< 13/6	 							
9A	LBKC								
10A	<bkg< td=""><td> </td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></bkg<>	 							
		l		1					

RA - RADIATION AREA

CA - CONTAMINATION AREA

ALL DOSE RATES IN µrem/hr

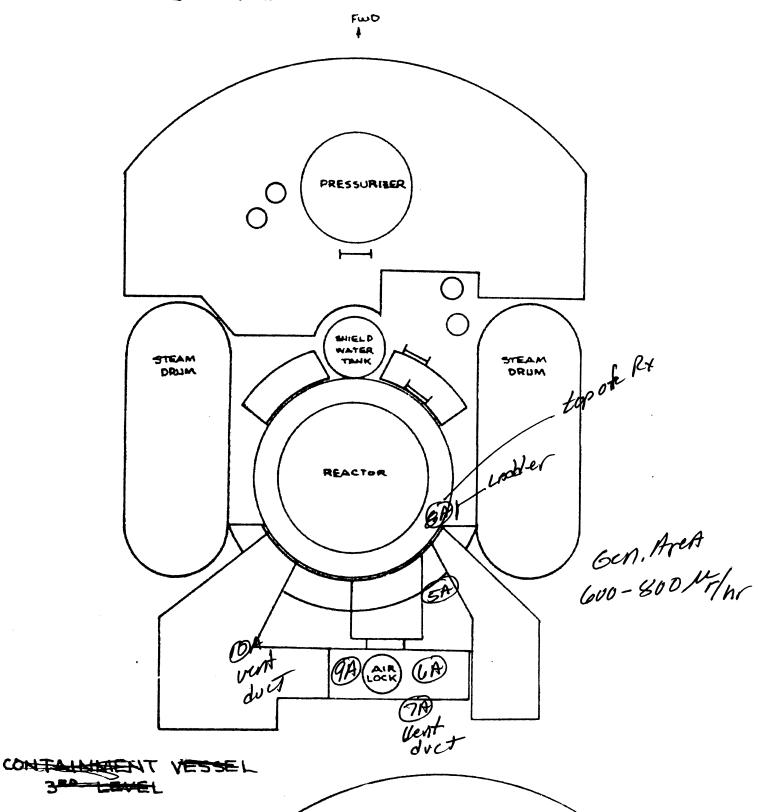
RCA - RADIATION CONTROL AREA

AA – AIRBORNE AREA

Probe:

Cal. Date:

CONTAINMENT VESSEL
18 LEVEL



NSS-01

SURVEY NO. NSS-0084

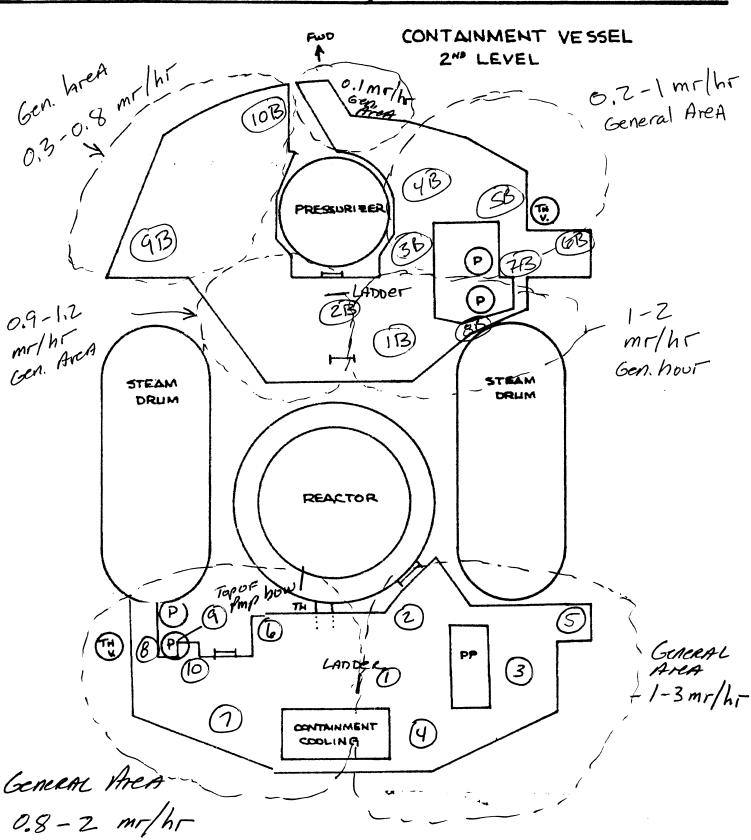
										
Date 4-1205 Time 1000 Acm	DOSE RATE									
Surveyor JULIAN SCOTT	Inst. Type tele deketor	Beta	Alpha	Beta	Alpha					
Signature Life Scale	Serial No. 28991	Inst.Sn								
Reviewed Residential	β ⁻ Factor	Eff.								
		Bkg.	cpm		cpm					
AREA Primary Containne	nt - 2nd Leve									
COMPONENT										
SER ATTECHED DARWING										

	R RESULTS				BETA in mR				05011170
NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS
1	LBKG	9	LBKG	HOT IB	< BKG	48	2 BKG		
2	4 BKG	10	4 BKG	2B	< BKG	10B	LBKG		
3	L BEG			3B	< BKG	<u> </u>			
4	4 BKG	<u> </u>		48	< BKG				
5	LBK6			50	< BKG				
li .	LBKG			6B	-BKG				
7	L BKG			78	< BKG				
3	4 RKG			88	< BKG				

RA - RADIATION AREA

CA - CONTAMINATION AREA

	CONTRATINGNE	1 CDDC T	DUIVCY
Scaler:		Bgr:	c/m
Eff.:	%	Eff. Do	ite:



SURVEY NO. 4/55 -00 95

Date 4-12 Time 10:00	DOSE RATE	CONTAMI	NATION						
Surveyor Rough , Co of	Inst. Type LESARCION	Beta Alpha	BetaAlpha						
Signature LA Araux	Serial No. A fula	Inst.Sn							
Reviewed Kalit & Kirmah	8 Factor 28991	Eff.							
		Bkg. cpm	cpm						
AREA PRIMARY CONTINIAMIENT									
2.1/	0 11 0	77 /	, ->						

SIEE ATTHCHEN MUSP

5milest 10A = 273 dpm/100 cm² 7 = 269 dpm/100 cm²

SMEAR RESULTS IN DPM/100 CM ² B = BETA in ThrRAD/hr/100 CM ²									
NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS
IA	LBKG	9A	~BKG)	< BKG	9	 		
2 À	4 BKG	IOA	5-3c+ (106,00)	灵	< BKG	10	LBKG		
3 A	< BKG	<u> </u>	, , ,	_3	- BKG				
HA	< BKG			Н	< BKG				
5A	< BKG	 		_5	< BKG				
GA	< BKG			6	< BKG				
7A_	< BKG	!			749 (48 cpm)				
BA	~ B K6			8	< ORG	<u> </u>			

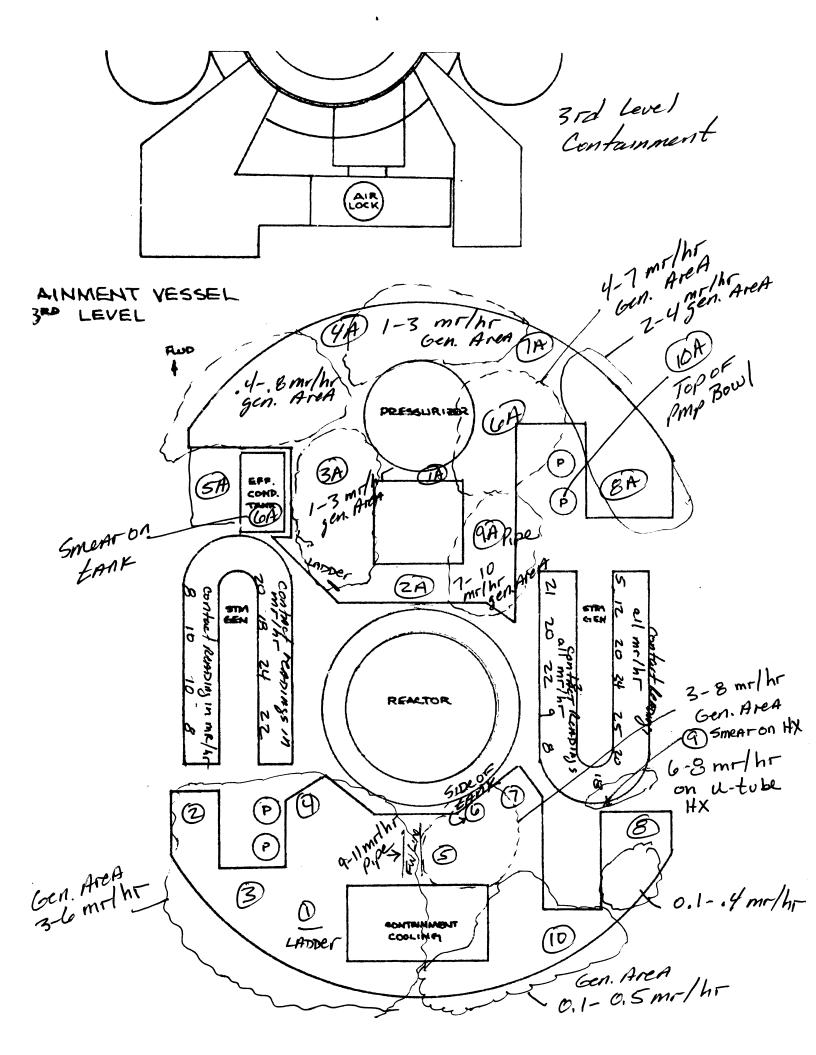
RA - RADIATION AREA

CA - CONTAMINATION AREA

ALL DOSE RATES IN µrem/hr

RCA - RADIATION CONTROL AREA

AA-AIRBORNE AREA * 5 mears 10A + 7 retained



NSS-01

SURVEY NO. NSS-008 6

Date 4/12/05 Time	DOSE RATE	CONTAMINATION			
Surveyor Bon Scott	Inst. Type 42972	Beta_V Alpha	BetaAlpha		
Signature Bmg)	Serial No. Ludlum 19	Inst.Sn 91037			
Reviewed Rull & Jumos	β-Factor	Eff. 1070			
U i o o o e i o	BKG 4NR/H	Bkg. 40 cpm	cpm		
ABEA Chimae Piamis	(1 - 3				

COMPONENT

Charge Pump#2

#1 Floor

#2 Top of Catch Tunk

#3 Floor

4 (ontrois for Sump Dump (Aft)

5 Large Valve (Pump SL-P1 Suct. SL-1V)

#6 Large Machine (Worthington)

#7 (ontrols for Sump fump (Forward)

#8 Large Metal Bell with Lage Bolts

#9 Controls for Waste Diluting Pany

#10 Floor

#11 Floor

STB ChyPring Rom

#12 Flow Gages

* wp against Morge Pump-D. Meter was 180 MR/H /FSKRWAS 280CPM

FSKR 4 100CPM (General)

STBD.

Charge Pump # 1+3 Bork

1 Floor

2 Primary Eate Value Control

3 main feed HZo Control

4 floor

5 floor

le walkway decle@motor

7- Floor both maturs

8-floor by engineers

9 typof Elec motor chilling # 3

10 Horsing Hweler motorachs Pump

11 Charge Pump#3

13 Horar Elec Motor chy Roop # 1 13 Horary blu muter + chy Roop #)

14 chy Pump# 1

15-Catch HANK

14-Main Seed Rup controls. #2

17 man feed pump artist #/

A Up against Charge Purps - D meter was wand 180 WR/H/FSKRwa. 280 CPM

LBKG/FSKRL100CPM (General)

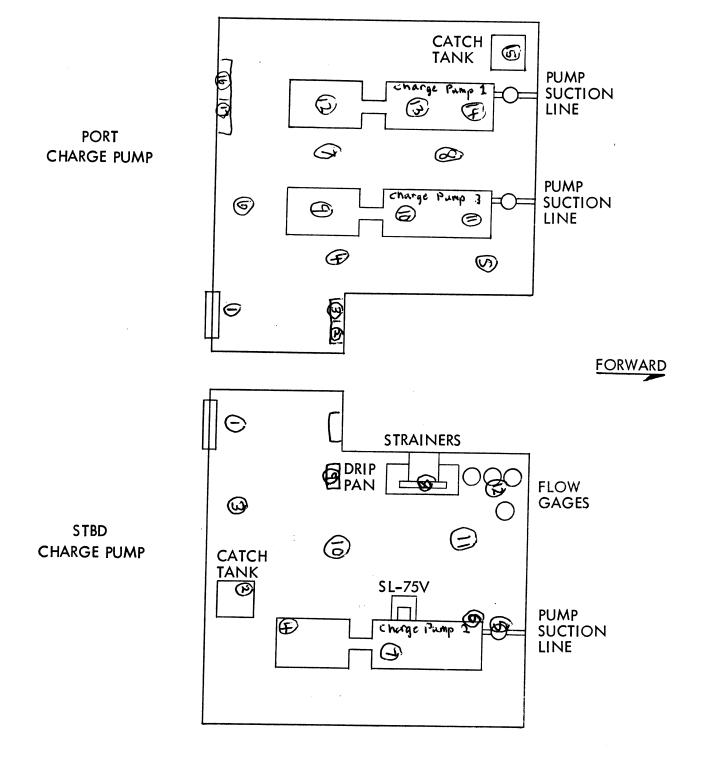
SMEA	R RESULTS A	N DPM/TO	00 CM ²	• 8 -	-BETA in mRA	AN/hr/100 CM²			
NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS
١	~BKG	9	< BKG			1	4BKG	9	LBKG
2	LBKG	10	L BKG			2	LBKG	10	2366
3	< BKG	11	LBKG			3	-BKG	11	< BKG
4	-BKG	12	< BKG		X	4	LBKG	12	LBKG
5	L BKG						< BKG	13	L BKG
6	< BKG					<u> </u>	< B KG	14	~BKG
1	< BKG	.		/			- BKG	75	-BKG
8	LBKG	<u> </u>	L	<u>l'</u>		Y	4BK6	16	ZBKG

RA - RADIATION AREA

CA - CONTAMINATION AREA

ALL DOSE RATES IN µrem/hr

17 | < BKG



NSS-01

SURVEY NO. <u>1/55 -008</u>7

Date 4-13-04 Time 4:15 pm	DOSE RATE	CONTAMINATION			
Surveyor Plant Parinel	Inst. Type U. Rinster	Beta Alpha	BetaAlpha		
Signature Rah & Rymon &	Serial No. 95469	Inst.Sn X/A (se	e Below)		
Reviewed Ko Stulink	βFactor	Eff.			
	BKh 2 rek/h	Bkg. cpm	cpm		

AREA Primary Containment - 1st Level

Contamination 100 horson 1929 #2 SN 160019 FIFF, 1208
NSt. 1316 42 opin 30 Sec Counts

SEE ATTACITAD DRAWING

6.785 Courts/30 Sec

TELFTIECTOR 2899/

4 = 173 dpm/100 cm² 6 = 615 dpm/100 cm² 6A = 490 dpm/100 cm² 8A = 327 dpm/100 cm² 9A = 884 dpm/100 cm² 10A = 106 dpm/100 cm² RECOUNT For Aupril
4-14-05
10 min count (ctr #2)

6 &= 2ct(0.2cpm) B=1638(164)
683

6A &= 2ct(0.2cpm) B=1153(115)
8A &= 1ct(0.1cpm) B=1140(114)

9A &= 1ct(0.1cpm) B=2061(206)

788

All Count Rates < MDA

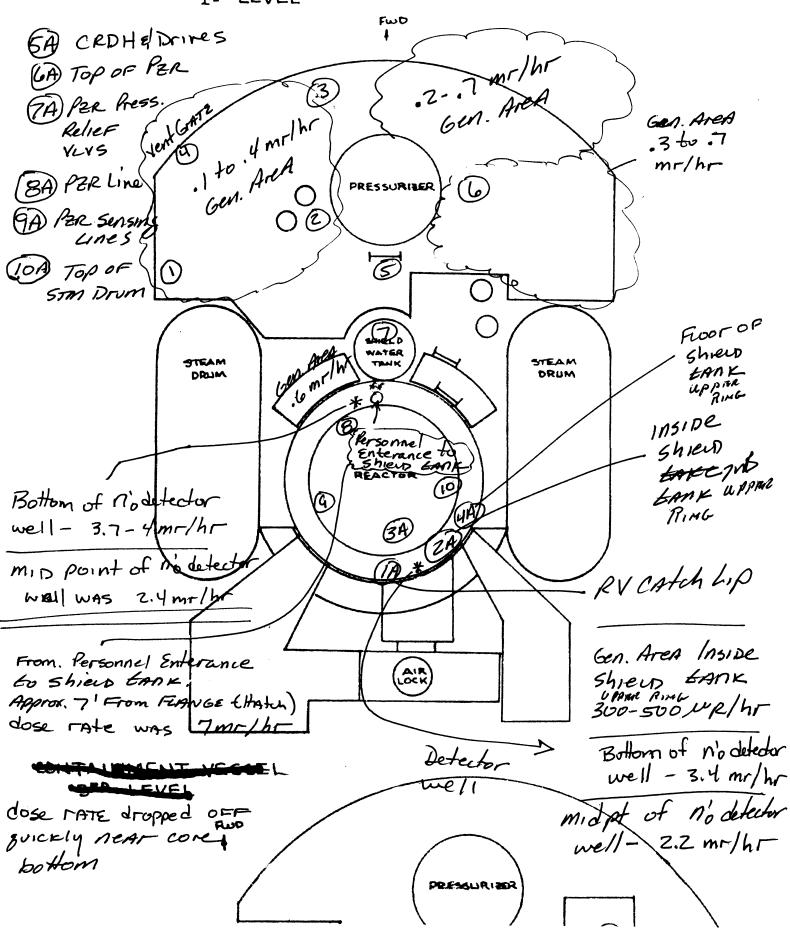
< 3.81 dpm

SMEAR RESULTS IN DPM/100 CM2 READ EAR B-BETA IN THRADITITION CM2									
NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS
1	ZBKG	9	4BKG	IA	<bk9< td=""><td>9A</td><td>113</td><td></td><td></td></bk9<>	9A	113		
2	< BKG	10	4 BKG	2A	4BKG	IDA	. 32		
3	< BKG			3A	L BKG				
4	39	<u> </u>		4A	LBKG				
5	L BKG			5A	-BKG				
6	85	1		6A	72				
′7	LBKG			7A	< BKG				
اغ	LBKG	1		AA	55				

RA - RADIATION AREA

CA - CONTAMINATION AREA

CONTAINMENT VESSEL



1	N	9	S_	0	1
- 1	V	·)	·J-	u	

SURVEY NO. NS5-0088

Date 4-14-65 Time 9:30 Am	DOSE RATE	CONTAMINATION			
Surveyor ROBT E PENMOCII	Inst. Type TELFTALTON	Beta Alpha	BetaAlpha		
Signature Kay Telannach	Serial No. 2 8 9 9 1	Inst.Sn			
Reviewed NW	β ⁺ Factor	Eff.			
	BK6 L . 1 mp/h	Bkg. cpm	cpm		

COMPONENT DOSR PATE THROUGHOOT LOWER LEVEL OF SECONDARY
VANIES FROM is malk To ~ 20 malk Crarence Arm.

HOT SPOTS OF ~ 250 malk on Contact with Piping (YELLOW) ON

STARBOARD SIDA WAS FOUND.

1B - Conr BOAR SAMPLA # SITE # | PORT SINA

2B - 1. #3 PORT SINA

3B - 11 11 11 #4 AFT

4B - 11 11 11 #2 PORT SINA

1 - 11 11 11 #5 STARBORAD SINA

2 - 11 11 11 11 #6 FOWARD

3 - 11 11 11 11 #6 FOWARD

Sample 3 (Counter #2) gross cts gross cpm BKGcpm Netcpm 100cm

SIVIEA	R RESULTS	IN UPIVIT	JU OIM	•	BETA in mR/	William Too	2 OIVI		
NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS
13	4 BKG	1	26KG						· · · · · · · · · · · · · · · · · · ·
23	LBKG	2	LRKG						
2 B 3 B 4 B	L BKG	3	32						
113	4 BKG	4	Not taken						
		5	Not taken						
		<u> </u>							

RA - RADIATION AREA

CA - CONTAMINATION AREA

NSS-01

SURVEY NO. N55-0089

Date 4-14-05 Time 10100	DOSE RATE	CONTAMINATION		
Surveyor John BOWEN/BONTEM	Inst. Type TELIFTECTUR	Beta	Alpha	BetaAlpha
Signature Rali Telumah	Serial No. 2 8991	Inst.Sn	See Belon)
Reviewed Bull	β ⁻ Factor	Eff.		
		Bkg.	cpm	cpm

AREA USHAPAN STEAM GIENFRATORS IN PRIMILEY CONTINIAR NO

COMPONENT Snears Constel W/Lud 2929 (#1) SN: 102001 (#2) SN: 160019

SIERATTACHEN DANWING

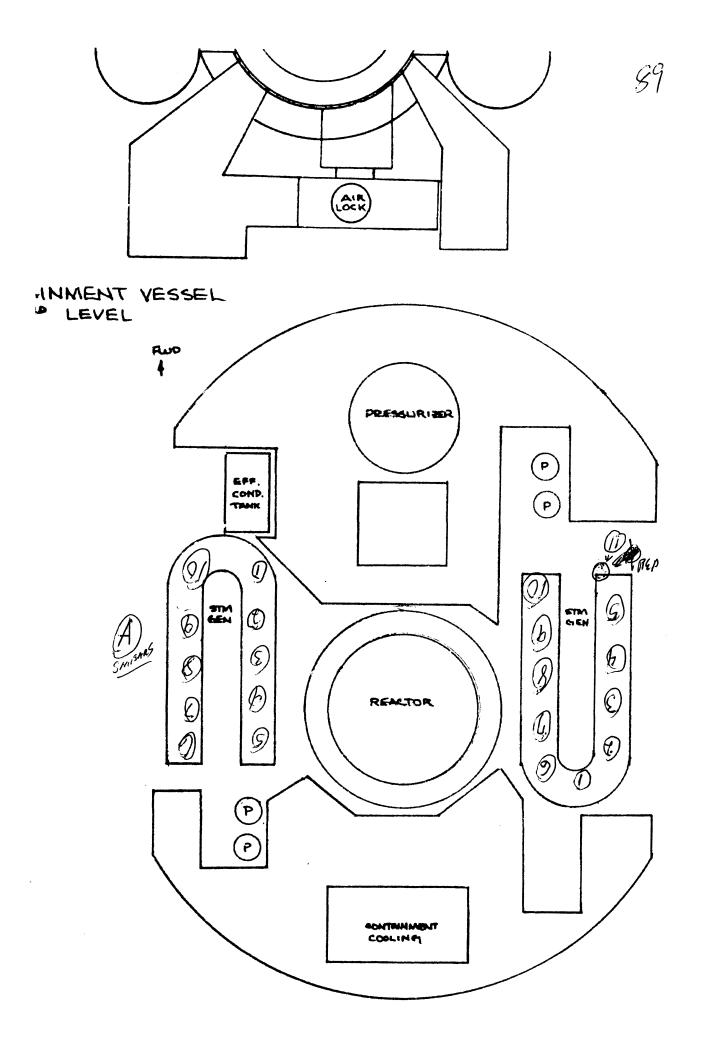
STAR BOARD STEAM GRA. DOST RATH BATWARN DOWN Comed 24 m R/le MINX
PORT " " " 35 m R/la MAX

Smear No.	Counter	gross counts	gross cpm	BKG cpm	Net cpm	100cm2
i	(2)	52	104	42	62	298
6	(1)	49	98	37	61	242
7	(2)	87	174	42	132	635
8	(1)	64	128	37	91	361
9	(2)	38	76	842	34	163
/0	(1)	60	120	37	83	329

	100 Seconts									
SMEA	SMEAR RESULTS IN DPM/100 CM ² C. 055 CO: The BETA in mRAD/hr/100 CM ²									
NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	
7	5.2 (2)	9	38 (2)	AI	< BKG	199	-BKG			
7	< BKG	10	60 (1)	AZ	4 BKG	A 10	<-BKG			
3	~ BKG	#	CAR COR	A 3	LBKG.					
ij	< BKG	11	<bkg< td=""><td>14</td><td>< BKG</td><td></td><td></td><td></td><td></td></bkg<>	14	< BKG					
5	- BKG			ns.	LBKC					
4	49 W			AL	LBK,					
7	87(1)			A7	L BKC					
8	67 (I)			A8	-Bkg					

RA - RADIATION AREA

CA - CONTAMINATION AREA



NSS-01

SURVEY NO. NS5-0090

Date 4/19/05 Time 10:30 Am	CONTAM	INATION	
Surveyor JAMES LOVEDAHL	Inst. Type / N/A	Beta Alpha	BetaAlpha
Signature James Zinglik	Serial No.	Inst.Sn ///	
Reviewed of I Munich	β ⁻ Factor	Eff.	
		Bkg. cpm	cpm
AREA TOP OF CUPOLI	4 STBD NITE	OGEN VALVE	FLANGE
COMPONENT			
	STBD	X Dan	
			5WIPES
	H = 3		5 WIDES 1. OUTBUBETER 1. OUTBUBETER 2. INBUARD BUTW. FAANGE FAANGE
	NOTROGON	Value	WBEARD BETW.
	NOTROGON	VAPLUES	FAANGE
/	$\langle x_2 \rangle$	4	3. FLANGE GAS
FND			3. FLANGE GAS 4-INSIDE FLAN AREA.
7		AF1	AREA.
		\int_{γ}	
\	\	/	
	NITROGE	UVALVES /	
	M=0	H	
	PORT		

A" DECK

SMEA	AR RESULTS +	N DPM/10	9- CM²-	B = BETA in mRAD/hr/100 CM ²				ta di antico di considerazione di antico di an	
NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS
1	< BKG-D								
2	< BKGD								
3	< BKGD								
4	< BKG-D						· · · · · · · · · · · · · · · · · · ·		
	-								
ļ									
						L			

RA - RADIATION AREA

CA - CONTAMINATION AREA

	RADIOLOGICAL S	URVEY	
NSS-01		SURVEY NO. /	155-0091
Date 4/9/05 Time 14:00	DOSE RATE	CONTAM	
Surveyor J. Bousen	Inst. Type N/A	Beta Alpha	BetaAlpha
Signature M.W.	Serial No. N/A	Inst.Sn //A	
Reviewed Woht Rumah	β-Factor N/A	Eff.	
		Bkg. cpm	cpm
AREA SMEAS Sampl	es From 11	ISIDE SURFACE	es
AREA SMEAT SAMPE	R ShALD TA	NK	
COMPONENT PRIMBY WA			
<i>/</i> .		_	
ALL Samples u inside the	vere baker		10.14
inside the	PRIMARY INAT	ER SHIELD	EMIC
	\sim		
Outer Wall		frmary Shead	NATER
			LANK
Inner WALL		ShEUD "	
	(B)	MAN hole	e cover/
TOP OF LANK -	a (a)	Access	WAY
	3 1 -11(6)	ALL JO	
Both Sipeson (
MANhole Accessivay		CADDES	
	,	canper-	
Top surfaces of			
10P SUTFACES OF	- 7		
2 CADDER RUN	355	Survey	Personne 1 t enter
		did	t enter
Top or inner	WALL.		· · · · · · · · · · · · · · · · · · ·
10/201		The PR	MATTE LANK.
		Shices	EAN K

SMEAR RESULTS IN DPM/100 CM² B= BETA in mRAD/hr/100 CM²									
NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS
0	< BKG								
1	4 BKG								
8	L BKG								
G	< BKG								
10	< BKG			<u> </u>					

RA - RADIATION AREA

10

CA - CONTAMINATION AREA

NSS-01	SURVEY NO. <u>NS5 - 6692</u>							
Date 4/19/05 Time 14:00	DOSE RATE	CONTAI	MINATION					
Surveyor T. Bower) Inst. Type NA	Beta Alpha	BetaAlpha					
Signature Maw.	Serial No.	Inst.Sn /						
Reviewed Roll Essenion	βFactor	Eff.						
		Bkg. cpm	cpm					
AREA SMEAT OF	locations for		nples					
COMPONENT								
COMPONENT	PED 3 Shi out out out smear smear smear	Lead on seld of Forward of Forward of Forward of 17'3" 14.74	I de la shierd Sample Locations (smears 1 & Z)					
SMEAR RESULTS -IN DPM/100 GM²	Ø=BETA in mR							
	ULTS NO. RESULTS	NO. RESULTS	NO. RESULTS					
1 LBKG								
2 (Btc.								

cpm

NSS-01		SURVEY NO. //	<u> 55-0093</u>
Date 4-21-05 Time	DOSE RATE	CONTAMI	NATION
Surveyor ROBT E PENNOUN	Inst. Type	Beta Alpha	BetaAlpha
	Serial No.	Inst.Sn ///	
Reviewed Millone	β ⁻ Factor	Eff.	
		Bkg. cpm	
AREA PRIMARY COMT AIMNIA	m FWD-STBD	VTUBE STRAM	Gosmi,
HOT WEL WOXH ARM	A		
COMPONENT			
			
- SS PLUG & RIMI			
- HOT LEG PLENUM	<u>-</u>		
- " NEXT TO PLENUM		Va (a) (a)	
- HOT LEG NEXT TO VALUE			Ş
	66		
· BRACA By ACCRES PORT	33 G		
-FLOOR BIELOW WORK HAM	770	Q)
- YELLOW FLAGAT LIGHT		8	
BLHCK FLAGH LIGIT	LNDPAR 58		
END OF WOODEN ROLER		<i>@</i>	
	(Ii		
- BOTH SCHEW DRIVERS - OUT SIDE OF BAG CONT.			
- 1407 KEC SAMPLIE, TOP	<i>y-,,</i> ,,		
- Univer Human	,	ACTIVITY	
- YELLOW HHAMAR FOTTOM NUTS& BOLTS		1660pm	
BITTOM 2 RUNGS OF LHORA		154 djun	
Runks 686 08 LADDER		35 Jan	
	•	71 dpm	
		so dpm	
	•	. 5 dpm	
	y = 12	70/100	

SMEA	SMEAR RESULTS THE DEPARTMENT OF THE DETAIL T								
NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS
7	32 cts	9	BKG	13	4 BNG				
2	37 d	10	BKL	28	< B/6				
3	L BICC	11	BKC	3 B	413KG				
4	35 J			48	4BKG				
5	70 cts			5B	4 13KG			<u> </u>	
6	413166							ļ	
7	47 075							ļ	
8	34 CTS								

RA - RADIATION AREA

4/13 5B

CA - CONTAMINATION AREA

	\sim	\sim	\sim	1
1/1	S	· > -	ı	

SURVEY NO. 1/55-6094

N22-01		SURVEY NO. 7/	57-0099
Date 4 2105 Time 0900	DOSE RATE	CONTAMI	NATION
Surveyor V. Bowen	Inst. Type july	Beta_Moha	BetaAlpha
Signature VWW	Serial No.	Inst.Sn	
Reviewed Pralet & Brungh	β ⁻ Factor	Eff.	
		Bkg. cpm	cpm
AREA FORWARD 1	St & ZOC LVL	- Peimary	Confmani
COMPONENT			
-			
e-			
0 128			
PressuriteR	(0)	2nd LVL	
"	(PZT)	200	
	\ ' /		
		= 1	ADDER to
			3rd Lever
	(24)		5
			70 1st Cr
, , , , , , , , , , , , , , , , , , ,		LADDER	70 1-61
Shight TANK) (3A)=6		
WIT			
TANK			
·	15t LYL (4A)		
•	- LYL		

SMEA	R RESULTS	IN EPIVITU	O CIVI ²	-	O DETA III MRADIMI TOO CIVI ^S				
NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS
IA	2 BKG								
ZA	KBKC								
3A	<bkg< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></bkg<>								
4A	<bkg< td=""><td></td><td></td><td></td><td></td><td> </td><td></td><td></td><td></td></bkg<>					 			
		1							

RA - RADIATION AREA

CA - CONTAMINATION AREA

ALL DOSE RATES IN µrem/hr

RCA - RADIATION CONTROL AREA

NSS-01

SURVEY NO. NSS -0095

		001(VE1110. <u>7V</u>	<u>55 00</u> 7
Date 4-21 05 Time / . 100 P/VI	DOSE RATE	CONTAMI	NATION
Surveyor Rost 1 Private	Inst. Type TRUMTECTOR	Beta Alpha	BetaAlpha
Signature Kalf Wyungh	Serial No. 28991	Inst.Sn	
Reviewed My Mans Jan	βFactor	Eff.	
		Bkg. cpm	cpm
AREA PRIMING CONTRIBUTION	Am Pont UT	UBR STRAM GEN	Acciss
Count			
COMPONENT			
2- COURD GAP 3 PLENUM OUTSIN 4 RAIL, FLAT 5 TOP OF PIPE 2 8mB/h	R SURFACE	3 (020) 13mm	e/hr

1. 67 dpm/100cm² 3.356 dpm/100cm²

SMEAR RESULTS IN DPM/100 CM ² **S = BETA in mRAD/hir/100 CM ²									
NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS
/	28								
2	< BKG						A		
3	58								
4	< BKG			 					
5	< 8kg								
		 							
									

RA - RADIATION AREA

CA - CONTAMINATION AREA

ALL DOSE RATES IN µrem/hr

RCA - RADIATION CONTROL AREA

NSS-01

SURVEY NO. <u>NSS-0094</u>

Date 4-20-05 Time 1:30	DOSE RATE		CONTAMI	NATION	
Surveyor John Bowsen	Inst. Type TELETISCTOR	Beta	Alpha	BetaAlpha_	
Signature	Serial No.	Inst.Sn			
Reviewed Roll Human	β ⁻ Factor	Eff.			
	BKG . 3 mR/h	Bkg.	cpm	cı	om
AREA PHIMINAY CONTAIN	MARMY - STBD STEAN	a GRM.	PAINAMMY S	YSTBA PLAN	un
COMPONENT					
	ACCESS COURK				
,	evin Q				
HoT LEG		50	1		
,	3 (0		1	,	
		J	1 TUBE SHER	T	
	Ø	Ű	ישאטן וו		
Fhow			Τ		
	WATER		' !		
	LEUR	2			
		1			
		1			
32 mR/h outsina in	WER COURN SAME		HEA LIN-IM	SIDE	
J/mh/h de 31111		1 IMA	HER LUN-1.	· _	
45 mR/h at opramine	PINNE			100	
		2 /	451012 9	SUCTION	u Sri
75mR/h 2/ for 121511	or Opposing	7	n	·	
25mR/h AT TUBA	Comme		TUBR 51	+ 12 PS	
25m//h 1) 10812	>1+1EK1				
•		5	BOTTOM		
Dpm/100cm2					
13- 10,271					
213 - 14,798					
3B- 13,183					

SMEA	R RESULTS	i N DPM/10	0-CM²	B = BETA in mRAD/hr/100 CM ²					
NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS
18	1683								
2 B	1560								
3 B	1392								
4 B	17,361					į į			
513	5396								
				ļ					
		İ							

RA - RADIATION AREA

CA - CONTAMINATION AREA

NSS-01

SURVEY NO. NSS- 6097

Date 4-21-05 Time 1:45 pm	DOSE RATE	CONTAMINATION		
Surveyor JOHN BOWEN	Inst. Type Tiels TEGOR	Beta Alpha	BetaAlpha	
Signature Mw.	Serial No. 28991	Inst.Sn N//		
Reviewed Roht El mural	β ⁻ Factor	Eff.		
	1-2 MA/M BKG	Bkg. cpm	cpm	
ARFA				

COMPONENT <u>PORT</u> 5/2e	- SIDE MUD DI	UM CHEAT EXC	hanger) h	TOT LEG KRIM
1- INSIDE TOP				
2-INSIDE AFT. 3- "FWD			34	and/h AT 55 Co
4- PLANUM TUI 5- IMSING SURF	BIE SHRET ACR OF SS COVER FOR N	Access opening	0000	TURE SHIGHT
				344 mg
				344 mp/
lpm/00 2				NIN SON
22000		((4/27	FO COVER	21nc
6096		Appr	ER COVER	e Tube
4144		Shee	£.	

SMEA	R RESULTS	IN DEIVITO	∪ CIM²	O DETAIN MRADITIOO GIVIS					
NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS
1	2309								
2	655				·			<u> </u>	
3	452		· · · · · · · · · · · · · · · · · · ·						
4	39A03								
_5	817			!					
		l		!					
						<u> </u>		L	

RA - RADIATION AREA

5. 7654

CA - CONTAMINATION AREA

ALL DOSE RATES IN µrem/hr

RCA - RADIATION CONTROL AREA

NSS-01

SURVEY NO. 1155-1098

Date 4-22-05 Time 9:00 AM	DOS	SE RATE		CONTAMI	NATION	
Surveyor ROBERT E PENMOUK	Inst. Type	N/A	Beta	Alpha	Beta	Alpha
Signature Poly Pumah	Serial No.	/	Inst.Sn	N/p		
Reviewed	β ⁻ Factor		Eff.	/		
			Bkg.	cpm		cpm
AREA PRIMARY CONT NIMI PORT, POST JOBS	m jenes	PORT U	TUBR	STIERM 1	PEM	ACCESS
1B YELLOW HAMMIER B SLUG WARMON 24"			<u>Q</u>	007 3	ī sīpā o	TO
B SOCKET & WRATCHET B PINE WRENCH				U		Suc .

dpm/100 cm2

5. 135

* SMERR COUNTER CONTERNATION/ CURRINED

	RESULTS				DETA III TIR				050111.70
NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS
1	< BKG	13	\$ 8 < BK						
2	45	213	7/5 < BKG						
3	4 BKG	313	3/5 < BHG						
4	4 BXG	4B	B 2 < BIG						
5	35	50	13 2 < BNG		•				
			* (14						

RA - RADIATION AREA

CA - CONTAMINATION AREA

ALL DOSE RATES IN µrem/hr

RCA - RADIATION CONTROL AREA

NSS-01

SURVEY NO. <u>NSS-0099</u>

Date 4-25-65 ime 11:15 PM	DOSE RATE		CONTAMINATION		
Surveyor ROBT E PANNOCH	Inst. Type N/A	Beta	Alpha	BetaAlpha	
Signature Role & Romand	Serial No.	Inst.Sn	NA		
Reviewed MAW	β ⁻ Factor	Eff.	7		
7		Bkg.	cpm	cpm	
AREA MICRO R MIETRAS	4 FRISIAN	3.R.S			
COMPONENT					
1-95499 4-	75809 91037 97416	ALPHA 1 6 - 197 7 - 1273	METIER 766 385 PABBR		
	94954		FRUBUT EXTANSION	2899/	
13-102001 with PROBES		10 F	CNY		

CN#2

SMEA	R RESULTS	IN DEIVITIO	JU CIM ²	D - BETALIH-III PABAHIF 100 CIVI ^S					
NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS
1	< BKG	9	4.BKG						
2	< BK6	10	<- BKG						
3	< BKG	11	< BKG						
4	& BKG	12_	L BKG						
2	< BKG	13	< BKG						
6	< BKG	14	~ B166						
7	L BKG								
8	< BKG								

RA - RADIATION AREA

CA - CONTAMINATION AREA

NSS-01,		SUR	VEY NO. //	55-0100
Date \$/25/05me	DOSE RATE		CONTAMI	NATION
Surveyor J. Bowe N	Inst. Type MR MATER	Beta	Alpha	BetaAlpha
Signature Aw .	Serial No. 95469	Inst.Sn	WA	
Reviewed Kold Thumph	β ⁻ Factor	Eff.		
	BX6 3 MR/h	Bkg.	cpm	cpm
AREA PORT STEAM	Drum			
				\
COMPONENT PORT STE	AM (LAERA)	OR (STEAM	Drum)
Secondary	- //	ORT		
,	TOPOF S	TEAM	Drum	PORT
(1) Top OF STM Drum		_		STEAM
Near opening	(8)			
(2) To Siction have	low 1 come (2)		\	Drum Access
2) Top-Further back	(ou n		1	Cover
3) LEFT 51DE /	X X			
	3 (10 (2) (6)	(5)		
(9) Bottom (3 (100			ALL SMEARS
(5) Right Side)	are from insing
~ 1/	ably (4)			PORT STEAM Drum
6 Inside - Hinge Asser	nply 9			
(7) LEFT Down Con	1			
			$\widetilde{\mathcal{D}}$	RIMSIDE
8) Top- Furthest Pt.	bACK		_	60-80 juR/m
9 Inside surface c	of Plus			00 00 /0 /
1) INSIDE SUITAGE C	" " " " " " " " " " " " " " " " " " " "	\sim	•	- 0 1 T/1.28
10 10000	no tina suc	FACE	D	R GUTSILITE
10 Inside-on Plug) What the son		<u> </u>	400-500 MR/h

SMEA	R RESULTS	וו שרועו זע	O CIVI ²	D DETACH HIRADAHA 100 CIVI					
NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS
1	<bkg< td=""><td>9</td><td>LBKG</td><td></td><td></td><td></td><td></td><td></td><td></td></bkg<>	9	LBKG						
ړن		10	< BKG						
3	< BKG < BKG								
4	< BKG								
5	< BKG	<u> </u>							
6_	< BKG		1						
11	< BKG								
8	< BKG	1		<u> </u>		I			

RA – RADIATION AREA CA – CONTAMINATION AREA ALL DOSE RATES IN µrem/hr

NSS-01

SURVEY NO. //SS-//101

1100-01		00KVL1140. <u>//</u>	25 1/101
Date 4-26-65 Time 8 1/M	DOSE RATE	CONTAMI	NATION
Surveyor RoBIERT REALING	oct Inst. Type	BetaAlpha	BetaAlpha
Signature & Malumil	Serial No.	Inst.Sn N/n	
Reviewed All Marsha	βFactor	Eff.	
,,,		Bkg. cpm	cpm
AREA PIPIE FROM	NITROGEN LIME		
	,		
COMPONENT			
-			

SMEA	SMEAR RESULTS IN SPM/100 CM ² B = BETA in mRAD/hr/100 CM ²									
NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	
1	< BKG									
2	LBKG									
										
		<u> </u>						 		
				 						
										

RA - RADIATION AREA

CA - CONTAMINATION AREA

ALL DOSE RATES IN µrem/hr

RCA - RADIATION CONTROL AREA

NSS-01	AIR English	SURVEY N	0. <i>N55-0[</i>]]
Date 4-5-05 Time	DOSE RATE		ITAMINATION
Surveyor Rost R PENNOCH	Inst. Type Rusecu	Beta Alpha_	BetaAlpha
Signature Kalifarin	2	Inst.Sn X//4	
Reviewed Richard Rasello		Eff.	
Me Manellan		Bkg.	cpm cpm
AREA COLD CHEM LA	B		
	10 Cc	FT Sample	
COMPONENT COUNTAIN	2 014 2929 SMIANA	COUNTAIL #2 3014	MIM COUNT
-6-05 SN 1	60019	Counts	
10 MINCOUNT B 1357 COUNT.	5 0.9 0.3 0	pr ARKO	- 73W
30 MIN Court	V 6 (0,2 epm) 3 1320 (44 epm)		
6.05 30 MM Count 0 MM 4/6/05	int		7 mm (mt) (3
-12-05 10min cor	int 050	m ZLLD (1	7 gross (conts) (c
-12-05 10min rol	int (5 0.5 cp	m ZLLD (1	7 gross (conts) (c
-12-05 10min col B M DA For 10 St3 Sample L 1.19 net cpn 3.81 dpm 0.312 3.21 EG	15 0.5 cp 398 40 cpn	B- 8,45 retipm=	$40.625 d^{3} = 1.836$
-12-05 10min col B M DA For 10 St3 Sample L 1.19 net cpn 3.81 dpm 0.312 3.21 EG	15 0.5 cp 398 40 cpn	B- 8,45 retipm=	$40.625 d^{3} = 1.836$
-12-05 10min col B M DA For 10 St3 Sample L 1.19 net cpn 3.81 dpm 0.312 3.21 EG	15 0.5 cp 398 40 cpn	B- 8,45 retipm=	$40.625 d^{3} = 1.836$
-12-05 10min col B M DA For 10 St3 Sample L 1.19 net cpn 3.81 dpm 0.312 3.21 EG	15 0.5 cp 398 40 cpn	B- 8,45 retipm=	$40.625 d^{3} = 1.836$
-12-05 10min col B M DA For 10 St3 Sample L 1.19 net cpn 3.81 dpm 0.312 3.21 EG	15 0.5 cp 398 40 cpn	B- 8,45 retipm=	$40.625 d^{3} = 1.836$
-12-05 10min col B M DA For 10 St3 Sample L 1.19 net cpn 3.81 dpm 0.312 3.21 EG	15 0.5 cp 398 40 cpn	B- 8,45 retipm=	$40.625 d^{3} = 1.836$
1.19 net cpm 3.81 dpm 1.19 net cpm 3.81 dpm 0.312 2.21 EG	15 0.5 cp 398 40 cpn	B- 8,45 retipm=	$40.625 d^{3} = 1.836$
-12-05 10min col B MDA for 10ft3 sample 1.19 net cpn 3,81 dpm	15 0.5 cp 398 40 cpn	B- 8,45 retipm=	$40.625 d^{3} = 1.836$
-12-05 10min col B M DA for 10 St3 Sample L 1.19 Net cpn 3.81 dpm 0.312 3.21 EG	15 0.5 cp 398 40 cpn	B- 8,45 retipm=	$40.625 d^{3} = 1.836$
-12-05 10min col B M DA For 10 St3 Sample L 1.19 net cpn 3.81 dpm 0.312 3.21 EG	15 0.5 cp 398 40 cpn	B- 8,45 retipm=	$40.625 d^{3} = 1.836$

RA - RADIATION AREA

CA - CONTAMINATION AREA

		KADIOLOGICAL 301	(V = 1					
	NSS-01	AIR SAMPLIE	SURVEY	URVEY NO. <u>MSS-0112</u>				
	Date 4-6-05 Time 10:50	DOSE RATE ALP	CC	OTAMINATIO	ON			
	Surveyor ROBIE PENNOCIL,	Inst. Type RAPIECO	Beta Alpha	a Beta	aAlpha			
ļ	Signature Role 79/11	Serial No. 0864	Inst.Sn	9				
1	Reviewed Richard Ranellone	β ⁻ Factor —	Eff.					
	MManlon		Bkg.	cpm	cpm			
į	AREA ACCESS TO SECONI	DAPAI CAMTHIMM	Exi7					
	71127	2004/10/2012			an ann an an Airm an Airm ann an Mhairleann, an parainn, ann an an Airm an Airm an Airm an Airm an Airm an Airm			
	COMPONENT Promi	-100 M1012 (1 T. Z. Z.	Torre				
	COMPONENT / NAPON 1=xprc)			IN X PAY				
	VOLUME 100 FT3 ha	MINUTES (16) Manus						
	TIME OF SAMPLE 1:04:27		nonMone 15	BETWEEN !	COUMIS			
15	COUNT-1MIM - 3362.	a 141 30MII	, on Mork	,,010-101-				
, 	1 3 245	. R 80						
2	COUNT - 1 MIM - B 245.	- 2						
_11	Count - 1 mm - 13 105	a 30						
5	Cours							
10 14	count - 1 min - B 62	X''						
7	count Imin			r	-13 chold			
<i></i> (4	count - 30 min - \$1429	(100) 22/21	. \ / m	DA (3.97	E Majer			
1/1/05 9 1	count -30 min - B1424	(18cpm) (X 5) (VI	(pm) -		X			
	count - 60min - Bd	740 (46,0m) d (3/4/500	(,525 net)	ZMUH			
(th	accust 60min - Bd	(10ch) (10ch) (10ch)	S (** / (pm)	. (
4/8/65	h count-60min - Bo	2495 (42cpm) X8	2 (1.4cpm)) (Count	ter changes:			
"7/1	h count	Do not do In	Dn /2 /2	2 ()	,			
	2 (")	B. Activity < M	DA (S,4 = -12	Mciles)				
4-11-05	ROCOUNT (#2)	1) (00	120/-	13			
•	160count (#2) 30 min B 1311	(44cp.v) × 3 (0.1)	ipm) 2 m	My (3.6	E MC/pe)			
					·			
	10 min B 454	(45.4cpm) X 6 (0,6	cpn)					

SMEA	R RESULTS I	N DPM/10	0 CM²	B =	B = BETA in mRAD/hr/100 CM ²					
NO.	RESULTS	N 0.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	
			/				<u> </u>			
								/		
		/		<u>/</u>				V		

RA - RADIATION AREA

CA - CONTAMINATION AREA

Recounts of Arr Simple for X activity Initial entry to Secondary Companiment SAMPLE Taken 4-6-05/1050 100 ft3 = 2.832 Eb ce INItral One-Monute Court (a) 141 cpm 4-7-05 60 mm 63 counts > 0.525 ret gpn

Counter #2 < MDA (3.36E-13 MC/ml) CH Court Counter # 2 7th 4-8-05 60 min 82 courts -> 1.04 ret cpm Cont Courter #1 1.04 = 3.1 dpn x 2.22E6 = 1.397 E .u.C. 1.397 E = 4.93 E - 13 Mifec (<25/6 DAC)

B- Activity

7th 4-8.05 60 min 2495/60 = 41.58 cpm Gross Court BKg = 42.15 cpm

> SAMPLe $\leq MDA$ (3.4 \in -12 Mei/ec) LLD for 60 min count = 2673 gras counts = 3.4 \in -12 Ms/ee (for 100 ft³ SAMPLE)

N.S. SAVANNAH

	RADIOLOGI	ICAL SURVEY					
NSS-01	A 112 S14 AG-	nuz SU	SURVEY NO. <i>NSS - 0113</i>				
Date 47-05 Time /2.'49	DOSER	ATE PALIT	CONTAMI	NATION			
Surveyor ROBTE PENNOU		HIN SAMPA Beta_	Alpha	BetaAlpha			
Signature Roll Firm		Inst.Sn					
Reviewed 1 & Milin	β ⁻ Factor	Eff.					
		Bkg.	cpm	cpm			
AREA CHARGE PUR	up Ruoma STA	R BOARD					
COMPONENT6	O ev FT	COUNTRA P	2 s/v 1600	519			
	GROSS C	ovm TS					
1,30 10 MIN Coum	a 905	(905 cpm)	The state of the s	41 11			
1,70 10 Min Coom	B 2837	(284 c/m)	Sample icep	recated with las			
			A)R V	olemi - Sel			
		, a	Simul	# NSS-0116			
	L 81 (2 B 1496 (4	() cpm)	300	TWO OR AND ADDRESS OF THE OWNER OWNER			
8:50 30 MINA (60M)	X 81	7					
g. 90	B 1496 (4	19.9cpm)					
/							
(-12-05 (ctr +1)			/	0,20			
8:36 10 min count	X 2ct	0.2 cpm	2 225 (13 gross Counts) < 25			
6,36 /0 WW	-	17.	- 1 1 × / 10	74 gross conts) 6 25			
	B 400	HUCPM	2 LLD (4)	14 1/1032 00			
1DA for 60 ft3 sample							
247 - + Cam 2 467 dem	1774 E.	B- 8.2 nety	2h 3254 down	- 1416 E . 50%			
	.SEE .qu	.252	2.22E6	= 1,466E Sali			
/ /	,		,	· · · · · · · · · · · · · · · · · · ·			
1.336E-6 MC = 7.87E 13/6/60	(26%.DAC)	1,466E Ml.	= 8,63E	3 x11/0c (2 2540 DAG			
0 (28.32) 1000	-	60(28,32)1000		•			
		TA : DAD# //20	C142				
SMEAR RESULTS IN DPM/100 C	M' B = BE	TA in mRAD/hr/100	RESULTS /	NO RESULTS /			

SMEAR	R RESULTS	N DPM/10	0 CM ²	B = BETA in mRAD/hr/100 CM ²					
NO.	RESULTS /	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS /	NO.	RESULTS
			,						
							/		
		/							
				L ′					

RA - RADIATION AREA

CA - CONTAMINATION AREA

NSS-01

SURVEY NO. NS5-6114

Date 4-8-05 Time 8:30 AM	DOSE RATE	CONTAMIN	NATION
Surveyor ROBART & PANHOUN	Inst. Type AIR SAMPLER	Beta Alpha	BetaAlpha
Signature Rahtle Rumonh	Serial No. 865	Inst.Sn	
Reviewed isolur	β ⁻ Factor	Eff.	
		Bkg. cpm	cpm

AREA AIR LOCK FOR PAIM AND CONTAINMAND

COMPONENT 100 Ft3 SAMPUR

GROSS COUNTS

10:31 15T COUNT - 30 MIN. & 4667 (156 cpm)

B 13,405 (447 cpm)

11:05 2 ACCOUNT - 30 MIN OR 2683 (89) B 7868 (262)

12:14 3rd count -30min & 793 (26)
B 3250 (108)

14:06 4th count - 10min A 78 (7.8) B 670 (67)

 $\frac{4-11.05}{12.23} \frac{\text{Conter # 1}}{30 \text{ min Count}} \times 20 \quad (0.34 \text{ net Cpm}) \quad (< 2.99 \text{E}^{-13} \text{Molec}) \\ \beta 1257 \quad (7.7 \text{ net cpm}) \quad \angle \text{MDA} \\ (< 3.8 \text{E}^{-12} \text{MG/ce}) < 0.104 \text{C}$

SMEA	R RESULTS I	N DPM/10	0 CM²	B =	B = BETA in mRAD/hr/100 CM ²					
NO.	RESULTS	∕N O.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULT\$	
							/		/	
			/		/		/			
			/							
						/		/		

RA - RADIATION AREA

CA - CONTAMINATION AREA

Initial Textry air SANGle Airlock for Primary Containment X-Decay Analysis Souple taken 4-8.05@ 0832

Initial Court (#1)

10:31 30 min court X 4667 - 155,24 cpm net 14:06 10 min court X 78 - 7.48 cpm net

Recount

12:23 4-11-05 (comto#1) x 20 - 0,34 cpm net

30 minute court

MDA (2.99 E -13 ulifee)

Calculation:

20 cout/30 min = 0.667

Bkg = 0.325 cpm 667 - . 325 = 0,342 netcpm

 $\frac{0.342}{\text{eff. } 0.336} = 1.017 \, dpm \times 2.72 = 4,58 = 7 \, \text{nci}$

 $100 \text{ coff Sangle} = 28.32 \frac{1}{f_1^3} \times 100 \text{ ft}^3 \times \frac{1000 \text{ ml}}{l} = 2.832 \text{ E}^6 \text{ ec}$

 $\frac{4.58E^{-7}Mei}{2.837E^{6}cc} = 1.62E^{-13}nti/cc} (< MDA)$

B - Calculation

1257/30 = 41.9-39.Z = 2.7 ret cpm

MDA for 30 min Court = 1357 Gross Courts (3,8 E-12 nC/ne)

COURT 15 < MDA

NSS-01

SURVEY NO. N 55 - 80115

Signature P. 1966 A. Ser	t. Type RADIECO Beta rial No. 1865 Vis Insi		BetaAlpha
Signature Rul Tallemore Ser	ial No. as 15 VIS Insi	Cn	
. ,	119000	1.311	
Reviewed 14 State 15	actor Eff.		
,	Bkg	g. cpm	cpm
COMPONENT 100 CUFT		CONTRA #2	

4/12/05 counter#2

8:54 AM 10 min count

0 cpm < MDA (6.07 E-13 MC/ec)
44 cpm < MDA (6.53 E-2 MC/ec)

225/0 DAC

SMEAR RESULTS IN DPM/100 CM ² B = BETA in mRAD/hr/100 CM ²										
NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	
		<u> </u>								
							. /			
									/	
$\overline{}$										
/								/		

RA - RADIATION AREA

CA - CONTAMINATION AREA

ALL DOSE RATES IN µrem/hr

RCA - RADIATION CONTROL AREA

 _	\sim	_	4
2	·>-		1

Data 6/-//- ACTima

Date 7 8 7% Time	BOSE NATE #5 CONTAMINATION				
Surveyor REPENNOUN	Inst. Type Rapieco	Beta Alpha	BetaAlpha		
Signature Politikumsh	Serial No. 804	Inst.Sn			
Reviewed 1986del	β Factor	Eff.			
		Bkg. cpm	cpm		

AREA CHARGE PUND ROOM STARBURAD COMPONENT 277 Cuft 24.59 min

4-8-05 8:46AM 30 MIM COURT CTR #1 (SN102601) X 308 (10.3cpm) 3 1870 (62.3cpm)

10:13 AM 2 h Com & 1102 (9.2 cpm) B 7201 (60 cpm)

4-11-05 10 min ct & 1ct . B 436 ct

4-12-05 10min et & 3 et (3 gm) B 411 (41 cpm) / < LLD B 506 coss

MDA for 277 Cuft Sangle

SMEA	SMEAR RESULTS IN DPM/100 CM ² B = BETA in mRAD/hr/100 CM ²									
NO.	RESULTS NO. RESULTS NO. RESULTS NO. RESULTS					NO.	RESULTS			
									/	
/		/		/				/		

RA - RADIATION AREA

CA - CONTAMINATION AREA

ALL DOSE RATES IN µrem/hr

RCA - RADIATION CONTROL AREA

N.S. SAVANNAH

	RADIOLOGICAL SUR'	VEY
NSS-01	AIR SAMPLE	SURVEY NO. NSS-0117

C" DECK - COLD WATER CHEM LAB

, ,	110 = 11.11					
Date 4/11/05 Time	DOSE RATE RADICO	c CONTAMINATION				
Surveyor JAMES LOVEDAHL	Inst. Type AIR SAMPLOX	BetaAlpha	BetaAlpha			
Signature fine Jorell	Serial No. 864	Inst.Sn				
Reviewed 142011	βFactor	Eff.				
	100 FT3 - 1 HR	Bkg. cpm	cpm			

COMPONENT_ 4-12-05 10 min count #1 Q = 21 cts 2,1cpm B = 404 40cpm

9:35 10 min count #1 Q = 12 cts 1.2 cpm B = 412 41 cpm

11:19 min count

B = 444 44.pm < LLD (13 combs) < MDA 4.7 E Milec B = 444 44.pm < LLD (474 counts) < MDA 5.2 E -12 Milec

2250/0 DAC

1:10 PM

SMEA	SMEAR RESULTS IN DPM/100 CM ² B = BETA in mRAD/hr/100 CM ²									
NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	
									/	
									<u> </u>	
				/		/				

RA - RADIATION AREA

CA - CONTAMINATION AREA

ALL DOSE RATES IN µrem/hr

RCA - RADIATION CONTROL AREA

		
NSS-01	BID SUNDLI	SURVEY NO. <u>NSS-0118</u>

Date 4-11-05 Time 12:00 Pm	DOSE RATE	CONTAMINATION			
Surveyor Ross PENNOUL	Inst. Type RIVIACO	Beta Alpha	BetaAlpha		
Signature Rolet Burnel	Serial No. 865	Inst.Sn			
Reviewed 1482 Lenk	βFactor	Eff.			
		Bkg. cpm	cpm		

AREA	PRIMARY	CONTAINI	11/4 MM 21	d horair		
COMPONE	NT //	O COFT				

2:11-10 Mim Count & 1120cts (112cpm) B 2345 (255cpm)
4-12-05
8:51 10 min count

& 13 (1.3cpm) B 393 (39cpm)

10:03 30 min count A 36 (1.2 cpm) B 1192 (40 cpm)

30 min LLD B = 1452 gross courts Act, < 4.79 = 12 major

(2500 DI) -

SMEA	SMEAR RESULTS IN DPM/100 CM ² B = BETA in mRAD/hr/100 CM ²									
NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	
									/	
								/		
					<u> </u>			<u> </u>	<u></u>	

RA - RADIATION AREA

CA - CONTAMINATION AREA

ALL DOSE RATES IN µrem/hr

RCA - RADIATION CONTROL AREA

NSS-01

SURVEY NO. <u>1/55-0119</u> Date 4-11-05 Time CONTAMINATION Inst. Type RAPACO Surveyor Beta_ Beta_ _Alpha_ Alpha__ Signature Serial No. Inst.Sn

Reviewed β Factor	Eff.
	Bkg. cpm cpm
AREA SECONDARY CONTAINMENT	Though house
COMPONENT 160 CUFT	
4-11-05 COUNTAIN #2	
12:16 10 MINCT & 309 cTs (31	(pm) B 1153 cTs (115 cpm)
8/41 10 MINCT & 9 crs (.90)	Jam) B 419 cTs (41,9 ym)
X 10 MIN COUNT LLD = 13 com	As gross = 6.07 E 13 Miles (2 25/5 DAC
B- 10 min Count LLD = 506 gre	

SMEA	SMEAR RESULTS IN DPM/100 CM ² B = BETA in mRAD/hr/100 CM ²								
NO.	RESULTS	N O.	RESULTS	NO.	RESULTS	NO.	RESULTS /	NO.	RESULTS/
					/		/		/
	/								
/		-/-				/		/	
<u>/</u>	L			/		L		L	

RA - RADIATION AREA

CA - CONTAMINATION AREA

ALL DOSE RATES IN µrem/hr

RCA - RADIATION CONTROL AREA

SURVEY NO.<u>N/55-0120</u> **NSS-01** AIR Expense Date 4-12-05 Time 9:10 11 CONTAMINATION Inst. Type RADECO Beta Alpha Beta Alpha Serial No. 864 Signature // / Inst.Sn Eff. β⁻Factor Reviewed Bkg. cpm cpm PRIMARY CONTAININESS 4 TH LIEVEL Lowist Linuise) COMPONENT COUNTER #1 5N 102001 4-12-05 11:03/50 Count 10 min cT & 1393 (139cpm) B 3186 (319cpm)
2 ml count 30 min cT & 70 (2.3cpm) B 256 (8.5cpm) 41-13-05 9:13 30 MIN COURT & 56 (1.9 cpm) B 1308 (44 cpm) 12:08 60 MIN COUNT X 83 (1.4 cpm) B 2540 (42 cpm) 4-14-05 9:21 30 min count & 27 (0.9) B 1212 (40 cpm) < MOA (299 E-13 Mile) < MOA (38 E-12 Mile)

(Sil DAC

SMEA	SMEAR RESULTS IN DPM/100 CM ² B = BETA in mRAD/hr/100 CM ²								
NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS
					/				
		/		/				<u> </u>	

RA - RADIATION AREA

CA - CONTAMINATION AREA

ALL DOSE RATES IN µrem/hr

RCA - RADIATION CONTROL AREA

NSS-01	AIR SAMOURA	SURVEY NO. <u>// 55 かん</u>
	74 77 201 71 - 1 -	

	14 116 2411111111				
Date 4-21-05 Time	DOSE RÁTE	CONTAMIN	MINATION		
Surveyor ROBERT E PIENMOCK	Inst. Type PARKED	Beta Alpha	BetaAlpha		
	Serial No. 864	Inst.Sn 1//			
Reviewed / / / /	β ⁻ Factor	Eff.			
/**		Bkg. cpm	cpm		

AREA PRIMITY CONTRIMMANT AT PORT V TUBE STRAM GEN. ACCRES COURS.

DURING RAMOURL ASSOCIOURN AND SAMPLING OF SYSTEM. COMPONENT 100 Cuft

$$4-21-05$$
 10 min ct Ctr # 1
(2:21)
 $\chi = 3961$ B-8 = 9643
(396 cpm) (964 cpm)

$$4-22-05$$
 10 min ct Ctr # 1
 $(8:42)$
 $\chi = 39 (2.9 cpm) \beta - 8 = 495 (49 cpm)$
 $9:23$ 30 min ct Ctr # 1

SMEAR RESULTS THE PRIVIOUS CINE TO DETAIL THE RABITITIOUS CINE									
NO.	RESULTS /	NO.	NO.	RESULTS					
									/
									/
		/_		/				/	
		/		<u>/</u>		<u></u>		Κ	

RA - RADIATION AREA

CA - CONTAMINATION AREA

ALL DOSE RATES IN µrem/hr

RCA - RADIATION CONTROL AREA

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report for

WPIA001 WPI

Client SDG: 135938 GEL Work Order: 135938

The Qualifiers in this report are defined as follows:

- ** Indicates the analyte is a surrogate compound.
- < Result is less than amount reported.
- > Result is greater than amount reported.
- B Target analyte was detected in the sample as well as the associated blank.
- BD Results below the MDC or low tracer recovery.
- E Concentration of the target analyte exceeds the instrument calibration range.
- H Analytical holding time exceeded.
- J Indicates an estimated value.
- P The response between the confirmation and the primary columns is >40% Different.
- R Sample results are rejected.
- U Target analyte was analyzed for but not detected above the MDL or LOD.
- UI Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
- Y QC Samples were not spiked with this compound.
- Z Paint Filter qualifier: Particulates passed through the filter. No free liquids were observed.

A Falle & Chinou

h Sample preparation or preservation holding time exceeded.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

** Indicates the analyte is a surrogate compound.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories, LLC standard operating procedures. Please direct any questions to your Project Manager, Jake Crook.

Reviewed by

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Report Date: May 25, 2005

WPIA00105

WPIA001

Project:

Client ID:

Certificate of Analysis

Company: WPI

11 S. 12th Street Address:

Suite 210

Richmond, Virginia 23219

Contact: Mr. John Bowen

Project: Radiochemistry Analytical

Client Sample ID: Sample ID: Matrix: Collect Date:

Metal Sample #6

135938001 Misc Solid

21-APR-05 09:10

Receive Date: Collector

05-MAY-05

	Collector:		Client								
Parameter	Qualifier		Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Rad Gamma Spec Ana	lysis										
Gammaspec, Gamma,	Solid (Long List)										
Actinium-228	U	-0.11	+/-2.32	3.83	0.800	pCi/g		AKB 05/18/05	1814	123794	1
Americium-241	U	-2.31	+/-2.86	3.80	0.200	pCi/g					
Antimony-124	U	0.424	+/-0.838	1.35	0.100	pCi/g					
Antimony-125	U	1.12	+/-1.60	2.59	0.200	pCi/g					
Barium-133	U	-0.333	+/-0.886	1.16	0.100	pCi/g					
Barium–140	U	2.94	+/-8.46	13.5	0.500	pCi/g					
Beryllium-7	U	1.15	+/-6.97	11.0	0.700	pCi/g					
Bismuth-212	U	0.351	+/-4.91	7.80	0.500	pCi/g					
Bismuth-214	U	1.06	+/-1.35	2.20	0.200	pCi/g					
Cerium-139	U	0.0914	+/-0.541	0.776	0.050	pCi/g					
Cerium-141	U	0.366	+/-1.30	1.87	0.100	pCi/g					
Cerium-144	U	-1.18	+/-3.31	4.63	0.500	pCi/g					
Cesium-134	U	0.524	+/-0.709	1.22	0.100	pCi/g					
Cesium-136	U	1.76	+/-3.15	5.35	0.300	pCi/g					
Cesium-137	U	0.199	+/-0.628	1.01	0.100	pCi/g					
Chromium-51	U	-3.09	+/-8.76	13.3	0.600	pCi/g					
Cobalt–56	U	-0.238	+/-0.744	1.21	0.100	pCi/g					
Cobalt–57	U	-0.0225	+/-0.429	0.605	0.050	pCi/g					
Cobalt–58	U	0.158	+/-0.745	1.25	0.100	pCi/g					
Cobalt-60	U	0.659	+/-1.18	1.41	0.100	pCi/g					
Europium-152	U	1.02	+/-1.61	2.56	0.200	pCi/g					
Europium-154	U	-1.41	+/-1.96	3.05	0.500	pCi/g					
Europium-155	U	-0.24	+/-1.70	2.38	0.500	pCi/g					
Iridium–192	U	0.050	+/-0.681	1.05	0.100	pCi/g					
Iron-59	U	1.54	+/-1.77	3.15	0.300	pCi/g					
Lead-210	U	101	+/-81.0	113	4.00	pCi/g					
Lead-212	UUI	0.00	+/-2.03	1.41	0.100	pCi/g					
Lead-214	U	1.71	+/-1.63	2.05	0.100	pCi/g					
Manganese-54	U	0.308	+/-0.631	1.08	0.100	pCi/g					
Mercury-203	U	0.549	+/-0.858	1.34	0.100	pCi/g					
Neodymium-147	U	5.35	+/-20.7	33.0	1000	pCi/g					
Neptunium-239	U	-2.36	+/-3.16	4.32	2.00	pCi/g					
Niobium-94	U	0.0352	+/-0.600	0.947	1.00	pCi/g					
Niobium-95	U	0.132	+/-0.921	1.54	0.050	pCi/g					
Potassium-40	U	6.62	+/-7.14	13.0	1.00	pCi/g					
Promethium-144	U	-0.236	+/-0.759	0.996	0.080	pCi/g					
Promethium-146	U	-0.0625	+/-0.773	1.20	1.00	pCi/g					
Radium-228	U	-0.11	+/-2.32	3.83	0.500	pCi/g					

GENERAL ENGINEERING LABORATORIES, LLC 2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company: WPI

2

11 S. 12th Street Address:

Suite 210

Richmond, Virginia 23219

Contact: Mr. John Bowen

Project: Radiochemistry Analytical

EPA 900.0 Modified

Report Date: May 25, 2005

	Client Sample Sample ID:	e ID:	Metal Sample 135938001	#6		Project Client 1		WPIA00105 WPIA001			
Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Rad Gamma Spec Analy	sis										
Gammaspec, Gamma, Se	olid (Long List)										
Ruthenium-106	U	4.16	+/-9.19	9.00	0.800	pCi/g					
Silver-110m	U	-0.0321	+/-0.616	0.968	0.080	pCi/g					
Sodium-22	U	-0.502	+/-0.704	1.10	0.080	pCi/g					
Thallium–208	U	0.453	+/-1.02	1.16	0.080	pCi/g					
Thorium-230	U	1.06	+/-1.35	2.20	1.00	pCi/g					
Thorium-234	U	20.6	+/-36.0	33.3	5.00	pCi/g					
Tin-113	U	-0.452	+/-0.835	1.26	0.100	pCi/g					
Uranium–235	U	1.26	+/-3.34	4.80	0.500	pCi/g					
Uranium-238	U	20.6	+/-36.0	28.3	1.00	pCi/g					
Yttrium–88	U	0.743	+/-0.764	1.50	0.100	pCi/g					
Zinc-65	U	-1.14	+/-1.45	2.25	0.300	pCi/g					
Zirconium-95	U	0.223	+/-1.33	2.23	0.200	pCi/g					
Rad Gas Flow Proportion	nal Counting										
GFPC, Gross A/B, solid											
Alpha	U	-0.0666	+/-0.961	1.82	4.00	pCi/g		SXE1 05/24/05	2034 4	23840	2
Beta	U	0.197	+/-1.52	2.63	10.0	pCi/g		5/1E1 03/24/03	2034 4	23049	۷
The following Analytical	Methods were	performed									
Method	Description				Aı	nalyst Comments					
1	EML HASL 30	0, 4.5.2.3									

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Certificate of Analysis

Replacement Pages 1 MB 6/10/2005

Company: WPI

Radium-228

11 S. 12th Street Address:

Suite 210

Richmond, Virginia 23219

Contact: Mr. John Bowen

Project: Radiochemistry Analytical Report Date: June 6, 2005

of 3 Page - 1

Client Sample ID: Sample ID:

Metal Sample #11 135938002

Project: Client ID:

WPIA00105 WPIA001

Matrix: Collect Date: Receive Date: Misc Solid 22-APR-05 08:32 05-MAY-05

Collector:

Client

Parameter Qualifier Result Uncertainty DL RLUnits DF AnalystDate Time Batch Method Rad Gamma Spec Analysis Gammaspec, Gamma, Solid (Long List) AKB 05/18/05 1814 423794 Actinium-228 ND +/-2.77 4.92 0.800 pCi/g pCi/g Americium-241 U ND +/-2.95 4.02 0.200 U Antimony-124 ND +/-1.00 1.59 0.100 pCi/g Antimony-125 U ND +/-2.06 3.38 0.200 pCi/g Barium-133 U ND +/-1.07 1.38 0.100 pCi/g U +/-10.6 0.500 Barium-140 ND 16.4 pCi/g Beryllium-7 U +/-8.21 0.700 ND 12.6 pCi/g Bismuth-212 U ND +/-6.40 10.1 0.500 pCi/g U Bismuth-214 ND +/-3.06 2.41 0.200 pCi/g Cerium-139 U ND +/-0.784 0.972 0.050 pCi/g U pCi/g Cerium-141 ND +/-1.78 2.50 0.100 Cerium-144 U ND +/-4.55 6.33 0.500 pCi/g Cesium-134 U ND +/-0.818 1.41 0.100 pCi/g pCi/g Cesium-136 U ND +/-3.70 6.16 0.300 Cesium-137 U ND +/-0.754 1.19 0.100 pCi/g U ND Chromium-51 +/-12.1 0.600 pCi/g 16.5 Cobalt-56 U ND +/-0.946 1.63 0.100 pCi/g Cobalt-57 U ND +/-0.555 0.782 0.050 pCi/g U 0.100 Cobalt-58 ND +/-0.863 1.38 pCi/g U +/-0.788 pCi/g Cobalt-60 ND 1.36 0.100 U Europium-152 ND +/-2.11 3.41 0.200 pCi/g 0.500 Europium-154 U ND +/-2.19 3.72 pCi/g U pCi/g Europium-155 ND +/-2.22 3.13 0.500 Iridium-192 U ND +/-0.825 1.26 0.100 pCi/g U +/-1.90 Iron-59 ND 3.37 0.300 pCi/g Lead-210 99.3 U ND +/-136 4.00 pCi/g Lead-212 UUI ND +/-2.94 2.29 0.100 pCi/g UUI +/-3.39 Lead-214 ND 2.78 0.100 pCi/g Manganese-54 U ND +/-0.743 1.24 0.100 pCi/g Mercury-203 U ND +/-1.06 1.63 0.100 pCi/g +/-23.3 Neodymium-147 U ND 38.3 1000 pCi/g Neptunium-239 U ND +/-3.89 5.50 2.00 pCi/g Niobium-94 U ND +/-0.723 1.15 1.00 pCi/g Niobium-95 U ND +/-1.24 2.02 0.050 pCi/g Potassium-40 U ND +/-16.8 13.4 1.00 pCi/g Promethium-144 U ND +/-0.766 1.22 0.080 pCi/g Promethium-146 U ND +/-0.975 1.59 1.00 pCi/g U ND +/-2.77 4.92 0.500

pCi/g

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Certificate of Analysis

Company: WPI

Address: 11 S. 12th Street

Suite 210

Richmond, Virginia 23219

Contact: Mr. John Bowen

Project: Radiochemistry Analytical

Replacement
Pages
Jus 6/10/2005

Report Date: June 6, 2005

Page 2 of 3

	Client Sample I Sample ID:	D:	Metal Sample 135938002	#11		Proje Clien		WPIA00105 WPIA001			
Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Rad Gamma Spec Analys	sis										
Gammaspec, Gamma, Sa	olid (Long List)										
Ruthenium-106	U	ND	+/-7.36	11.8	0.800	pCi/g					
Silver-110m	U	ND	+/-0.765	1.19	0.080	pCi/g					
Sodium-22	U	ND	+/-0.787	1.34	0.080	pCi/g					
Thallium-208	U	ND	+/-1.47	1.47	0.080	pCi/g					
Thorium-230	U	ND	+/-3.06	2.41	1.00	pCi/g					
Thorium-234	U	ND	+/-47.4	41.5	5.00	pCi/g					
Tin-113	U	ND	+/-1.06	1.62	0.100	pCi/g					
Uranium-235	U	ND	+/-4.63	6.65	0.500	pCi/g					
Uranium-238	U	ND	+/-47.4	34.4	1.00	pCi/g					
Yttrium-88	U	ND	+/-0.779	1.44	0.100	pCi/g					
Zinc-65	U	ND	+/-1.75	2.87	0.300	pCi/g					
Zirconium-95	UUI	ND	+/-2.58	2.70	0.200	pCi/g					
Rad Gas Flow Proportion	nal Counting										
GFPC, Gross A/B, solid											
Alpha	U	ND	+/-1.18	1.90	4.00	pCi/g		SXE1 05/24/0:	5 2034	423849	2
Beta		3.40	+/-1.82	2.90	10.0	pCi/g					

The following Analytical Methods were performed

Method Description Analyst Comments

EML HASL 300, 4.5.2.3 EPA 900.0 Modified

Notes:

The Qualifiers in this report are defined as follows:

- ** Indicates the analyte is a surrogate compound.
- B Target analyte was detected in the sample as well as the associated blank.
- BD Results below the MDC or low tracer recovery.
- E Concentration of the target analyte exceeds the instrument calibration range.
- H Analytical holding time exceeded.
- J Indicates an estimated value.
- U Target analyte was analyzed for but not detected above the MDL or LOD.
- UI Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
- h Sample preparation or preservation holding time exceeded.

The above sample is reported on a dry weight basis except where prohibited by the analytical procedure.

192 continued on 192A

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Certificate of Analysis

Company: WPI

Address:

11 S. 12th Street

Suite 210

Richmond, Virginia 23219

Contact:

Mr. John Bowen

Project:

Radiochemistry Analytical

Report Date: June 6, 2005

Replacement Pages just 6/10/2005

Page 3 of 3

Client Sample ID: Sample ID:

Metal Sample #11

Project:

WPIA00105

Client ID:

WPIA001

Parameter

Qualifier

135938002 Result Uncertainty

DL

RL

Units

DF

AnalystDate Time Batch Method

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories, LLC standard operating procedures. Please direct any questions to your Project Manager, Jake Crook.

Reviewed by

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

WPI Company:

11 S. 12th Street Address:

Suite 210

Richmond, Virginia 23219

Contact: Mr. John Bowen

Project: Radiochemistry Analytical Report Date: May 25, 2005

WPIA00105

WPIA001

Project:

Client ID:

Client Sample ID:

Metal Sample #13 Sample ID: 135938003 Matrix:

Collect Date: Receive Date: Misc Solid 25-APR-05 11:18 05-MAY-05

Collector: Client

Parameter Qualifier Result Uncertainty DLRL Units DF AnalystDate Time Batch Method Rad Gamma Spec Analysis Gammaspec, Gamma, Solid (Long List) Actinium-228 UUI 0.00 +/-0.766 0.800 AKB 05/18/05 1815 423794 0.688 pCi/g 1 Americium-241 U -0.0281+/-0.294 0.425 0.200 pCi/g pCi/g Antimony-124 U 0.137 +/-0.125 0.207 0.100 Antimony-125 +/-0.256 U -0.1180.384 0.200 pCi/g Barium-133 U -0.0266+/-0.131 0.174 0.100 pCi/g Barium-140 U 1.40 +/-1.10 1.71 0.500 pCi/g Beryllium-7 U 0.223 +/-0.942 1.46 0.700 pCi/g Bismuth-212 U 0.0178 +/-0.711 1.14 0.500 pCi/g Bismuth-214 U 0.230 +/-0.204 0.338 0.200 pCi/g Cerium-139 UUI +/-0.168 0.050 pCi/g 0.00 0.123 Cerium-141 U 0.0681 +/-0.212 0.308 0.100 pCi/g +/-0.579 Cerium-144 U 0.04620.839 0.500 pCi/g Cesium-134 U 0.023 +/-0.107 0.172 0.100 pCi/g Cesium-136 U +/-0.930 0.712 0.300 0.327 pCi/g Cesium-137 U 0.111 +/-0.124 0.133 0.100 pCi/g Chromium-51 U +/-1.27 1.91 0.600 pCi/g -0.864Cobalt-56 U 0.00107 +/-0.117 0.186 0.100 pCi/g Cobalt-57 U 0.00287 +/-0.0698 0.101 0.050 pCi/g Cobalt-58 U -0.0358+/-0.116 0.181 0.100 pCi/g Cobalt-60 UUI +/-0.175 0.000.326 0.100 pCi/g Europium-152 U 0.0685 +/-0.257 0.398 0.200 pCi/g Europium-154 U 0.0749 +/-0.259 0.439 0.500 pCi/g Europium-155 H 0.336 +/-0.275 0.412 0.500 pCi/g Iridium-192 +/-0.103 U 0.0706 0.162 0.100 pCi/g 0.0663 +/-0.257 0.300 pCi/g Iron-59 U 0.431 Lead-210 U 6.12 +/-11.9 8.19 4.00 pCi/g +/-0.334 Lead-212 U 0.0252 0.229 0.100 pCi/g Lead-214 U 0.122 +/-0.3050.322 0.100 pCi/g Manganese-54 U 0.0141 +/-0.0958 0.154 0.100 pCi/g Mercury-203 U 0.143 +/-0.243 0.189 0.100 pCi/g +/-2.35 U 3.91 1000 Neodymium-147 2.14 pCi/g Neptunium-239 U -0.136+/-0.502 0.721 2.00 pCi/g Niobium-94 U -0.0547+/-0.109 0.145 1.00 pCi/g Niobium-95 +/-0.143 U 0.0943 0.235 0.050 pCi/g Potassium-40 2.97 +/-1.22 2.11 1.00 pCi/g U 0.0712 +/-0.109 0.080 Promethium-144 0.157 pCi/g Promethium-146 U 0.013 +/-0.117 0.180 1.00 pCi/g UUI 0.00 +/-0.766 0.500 Radium-228 0.688 pCi/g

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company: WPI

Address: 11 S. 12th Street

Suite 210

Richmond, Virginia 23219

Contact: Mr. John Bowen

Project: Radiochemistry Analytical

Report Date: May 25, 2005

	Client Sample Sample ID:	e ID:	Metal Sample 135938003	#13		Project Client I		WPIA00105 WPIA001			
Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Rad Gamma Spec Analy	ysis										
Gammaspec, Gamma, S	Solid (Long List)										
Ruthenium-106	U	-0.773	+/-0.890	1.36	0.800	pCi/g					
Silver-110m	U	-0.0862	+/-0.0887	0.135	0.080	pCi/g					
Sodium-22	U	0.031	+/-0.0929	0.158	0.080	pCi/g					
Thallium-208	U	0.0396	+/-0.198	0.180	0.080	pCi/g					
Thorium-230	U	0.230	+/-0.204	0.338	1.00	pCi/g					
Thorium-234	U	1.23	+/-4.96	3.62	5.00	pCi/g					
Tin-113	U	0.0411	+/-0.123	0.191	0.100	pCi/g					
Uranium-235	U	0.656	+/-0.605	0.887	0.500	pCi/g					
Uranium-238	U	1.23	+/-4.96	3.62	1.00	pCi/g					
Yttrium–88	U	0.0335	+/-0.0965	0.172	0.100	pCi/g					
Zinc-65	U	0.00536	+/-0.213	0.353	0.300	pCi/g					
Zirconium-95	U	-0.0248	+/-0.196	0.311	0.200	pCi/g					
Rad Gas Flow Proportion	onal Counting										
GFPC, Gross A/B, solid	1										
Alpha	U	-1.02	+/-1.05	2.76	4.00	pCi/g		SXE1 05/24/05	5 1940 4	23849	2
Beta	U	-0.385	+/-1.27	2.68	10.0	pCi/g					

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EML HASL 300, 4.5.2.3	

2

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Report Date: May 25, 2005

WPIA00105

WPIA001

Project:

Client ID:

Certificate of Analysis

Company: WPI

11 S. 12th Street Address:

Suite 210

Richmond, Virginia 23219

Contact:

Mr. John Bowen

Project:

Promethium-146

Radium-228

Radiochemistry Analytical

Client Sample ID:

Metal Sample #12A

Sample ID:

135938004 Misc Solid

Matrix: Collect Date:

25-APR-05 11:12 05-MAY-05

Receive Date:

Collector: Client Qualifier Result Uncertainty DL RL Units DF AnalystDate Time Batch Method Parameter Rad Gamma Spec Analysis Gammaspec, Gamma, Solid (Long List) 0.184 +/-0.0996 0.188 0.800 pCi/g AKB 05/18/05 1815 423794 1 Actinium-228 0.0141 +/-0.170 0.277 0.200 pCi/g Americium-241 U 0.100 pCi/g U +/-0.0325 0.0548 0.00315 Antimony-124 U 0.00982 +/-0.0661 0.113 0.200 pCi/g Antimony-125 pCi/g 0.100 U 0.0246 +/-0.0350.052 Barium-133 U 0.178 +/-0.295 0.515 0.500 pCi/g Barium-140 +/-0.261 0.700 Beryllium-7 U 0.0244 0.444 pCi/g +/-0.197 0.341 0.500 pCi/g U 0.0865 Bismuth-212 U 0.0445 +/-0.119 0.112 0.200 pCi/g Bismuth-214 0.050 Cerium-139 U -0.0074+/-0.02170.0342 pCi/g 0.100 pCi/g 0.0807 U -0.0247+/-0.0513 Cerium-141 0.500 U 0.0415 +/-0.143 0.233 pCi/g Cerium-144 U 0.00758 +/-0.0289 0.0494 0.100 pCi/g Cesium-134 0.183 0.300 pCi/g Cesium-136 U 0.00842+/-0.108 0.100 pCi/g Cesium-137 UUI 0.00 +/-0.0304 0.0582 0.600 pCi/g 0.0269 +/-0.366 0.581 U Chromium-51 -0.00736+/-0.039 0.0557 0.100 pCi/g U Cobalt-56 +/-0.0178 0.0285 0.050 pCi/g Cobalt-57 U -0.00324U +/-0.0291 0.0493 0.100 pCi/g 0.00275 Cobalt-58 pCi/g U 0.0198 +/-0.046 0.0582 0.100 Cobalt-60 U -0.00816+/-0.07250.114 0.200 pCi/g Europium-152 0.500 pCi/g 0.122 Europium-154 U -0.00194+/-0.069 0.500 U +/-0.0742 0.120 pCi/g 0.00157 Europium-155 U +/-0.0299 0.0465 0.100 pCi/g -0.0101Iridium-192 0.300 Iron-59 U 0.0446 +/-0.0613 0.115 pCi/g 4.00 pCi/g 12.3 Lead-210 U 5.94 +/-8.67 pCi/g U 0.0258 +/-0.0828 0.0645 0.100 Lead-212 Lead-214 U 0.0494 +/-0.100 0.101 0.100 pCi/g +/-0.0269 0.0465 0.100 pCi/g U 0.0124 Manganese-54 +/-0.0347 0.0564 0.100 pCi/g U 0.0192 Mercury-203 1000 pCi/g U -0.0276+/-0.668 1.13 Neodymium-147 Neptunium-239 U -0.00098+/-0.136 0.219 2.00 pCi/g U +/-0.0244 0.0413 1.00 pCi/g Niobium-94 0.00408 0.060 0.050 pCi/g U -0.0127 +/-0.0367 Niobium-95 0.513 1.00 pCi/g U 0.364 +/-0.523 Potassium-40 U 0.0158 +/-0.0268 0.0464 0.080 pCi/g Promethium-144 0.0546 1.00 pCi/g U +/-0.0321

0.188

0.500

pCi/g

0.00377 0.184

+/-0.0996

GENERAL ENGINEERING LABORATORIES, LLC 2040 Savage Road Charleston SC 29407 – (843) 556–8171 – www.gel.com

Certificate of Analysis

Company: WPI

Address: 11 S. 12th Street

Suite 210

Richmond, Virginia 23219

Mr. John Bowen Contact:

Project: Radiochemistry Analytical Report Date: May 25, 2005

	Client Samp Sample ID:	le ID:	Metal Sample 135938004	e#12A		Proje Clier	ect: nt ID:	WPIA00105 WPIA001			
Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Rad Gamma Spec Analys	is								-		
Gammaspec, Gamma, So	lid (Long List)	ı									
Ruthenium-106	U	0.0796	+/-0.241	0.413	0.800	pCi/g					
Silver-110m	U	-0.0279	+/-0.0261	0.0406	0.080	pCi/g					
Sodium-22	U	-0.000697	+/-0.0248	0.044	0.080	pCi/g					
Thallium-208	U	0.0194	+/-0.0286	0.0498	0.080	pCi/g					
Thorium-230	U	0.0444	+/-0.119	0.0854	1.00	pCi/g					
Thorium-234	U	1.70	+/-1.31	2.22	5.00	pCi/g					
Tin-113	U	0.000478	+/-0.0371	0.0585	0.100	pCi/g					
Uranium-235	U	0.130	+/-0.146	0.242	0.500	pCi/g					
Uranium-238	U	1.70	+/-1.31	2.22	1.00	pCi/g					
Yttrium-88	U	0.0149	+/-0.0336	0.062	0.100	pCi/g					
Zinc-65	U	-0.0385	+/-0.0541	0.0897	0.300	pCi/g					
Zirconium-95	U	-0.00402	+/-0.0528	0.0883	0.200	pCi/g					
Rad Gas Flow Proportion	al Counting										
GFPC, Gross A/B, solid											
Alpha	U	-0.424	+/-1.02	2.42	4.00	pCi/g		SXE1 05/24/05	1940 4	123849	2
Beta	U	-0.815	+/-1.02	2.27	10.0	pCi/g					
The following Analytical	Mothoda wan	a narfarmad									

Method	Description	Analyst Comments
1	EML HASL 300, 4.5.2.3	

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Certificate of Analysis

Company: WPI

Bismuth-214

Cerium-139

Niobium-94

Niobium-95

Potassium-40

Radium-228

Promethium-144

Promethium-146

11 S. 12th Street Address:

Suite 210

Richmond, Virginia 23219

Mr. John Bowen Contact:

Project: Radiochemistry Analytical

Client Sample ID:

U

U

U

U

U

U

UUI

UUI

Sample ID: Matrix:

Collect Date: Receive Date: Paint Sample #8 135938005

Misc Solid 22-APR-05 09:16 05-MAY-05

+/-1.84

+/-0.425

Collector: Client Report Date: May 25, 2005

Project: Client ID: WPIA00105 WPIA001

	Concetor.		CHEIL								
Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Rad Gamma Spec Ans	alysis										
Gammaspec, Gamma	, Solid (Long List)										
Actinium-228	UUI	0.00	+/-1.59	2.86	0.800	pCi/g		AKB 05/18/05	5 1900 4	123794	1
Americium-241	U	-0.993	+/-2.25	2.66	0.200	pCi/g					
Antimony-124	U	0.473	+/-0.824	0.901	0.100	pCi/g					
Antimony–125	U	-1.27	+/-1.74	2.49	0.200	pCi/g					
Barium-133	U	-0.0767	+/-0.744	1.09	0.100	pCi/g					
Barium-140	U	-3.03	+/-6.86	10.6	0.500	pCi/g					
Beryllium-7	U	1.77	+/-6.68	10.7	0.700	pCi/g					
Bismuth-212	U	3.68	+/-3.06	5.27	0.500	pCi/g					

1.41

0.615

0.200

0.050

pCi/g

pCi/g

pCi/g

pCi/g

pCi/g

pCi/g

pCi/g

pCi/g

0.143

0.00

0.0638

0.324

0.00

-0.0514

0.706

-0.285

1.00

0.050

1.00

0.080

1.00

0.500

0.544

0.953

9.70

0.596

1.34

2.86

197

+/-0.327

+/-0.593

+/-4.98

+/-0.415

+/-0.951

+/-1.59

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Certificate of Analysis

Company: WPI

11 S. 12th Street Address:

Suite 210

Richmond, Virginia 23219

Mr. John Bowen Contact:

Project: Radiochemistry Analytical Report Date: May 25, 2005

	Client Sample Sample ID:	e ID:	Paint Sample 135938005	#8		Projec Client		WPIA00105 WPIA001			
Parameter	Qualifier	Result	Uncertainty	\mathbf{DL}	RL	Units	DF	AnalystDate	Time	Batch	Method
Rad Gamma Spec Analy	sis										
Gammaspec, Gamma, Se	olid (Long List)										
Ruthenium-106	U	1.24	+/-4.08	6.63	0.800	pCi/g					
Silver-110m	U	0.267	+/-0.561	0.810	0.080	pCi/g					
Sodium-22	U	0.0757	+/-0.401	0.621	0.080	pCi/g					
Thallium-208	U	0.459	+/-0.507	0.837	0.080	pCi/g					
Thorium-230	U	0.706	+/-1.84	1.69	1.00	pCi/g					
Thorium-234	UUI	0.00	+/-19.2	23.5	5.00	pCi/g					
Tin-113	U	-0.384	+/-0.825	1.20	0.100	pCi/g					
Uranium-235	U	1.58	+/-3.02	4.00	0.500	pCi/g					
Uranium-238	UUI	0.00	+/-19.2	23.5	1.00	pCi/g					
Yttrium–88	U	0.276	+/-0.435	0.821	0.100	pCi/g					
Zinc-65	U	-0.319	+/-0.793	1.32	0.300	pCi/g					
Zirconium-95	U	0.860	+/-0.778	1.35	0.200	pCi/g					
Rad Gas Flow Proportion	nal Counting					, ,					
GFPC, Gross A/B, solid											
Alpha		4.23	+/-2.43	3.84	4.00	pCi/g		SXE1 05/24/05	5 1940 42	3849	2
Beta		160	+/-5.45	1.87	10.0	pCi/g					
The following Analytical	l Methods were	performed									
3.4.4. 1	D					1 4 0					

Method	Description	Analyst Comments	
1	EML HASL 300, 4.5.2.3		
2	EPA 900.0 Modified		

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Report Date: May 25, 2005

WPIA00105

WPIA001

Project:

Client ID:

Certificate of Analysis

Company: WPI

Promethium-146

Radium-228

11 S. 12th Street Address:

Suite 210

Richmond, Virginia 23219

Contact: Mr. John Bowen

Project: Radiochemistry Analytical

Client Sample ID:

Sample ID:

Receive Date:

Matrix: Collect Date:

U

U

-0.0595

0.197

+/-0.177

+/-0.922

Paint Sample #14 135938006

Misc Solid 22-APR-05 09:48 05-MAY-05

Collector: Client **Parameter** Qualifier Result Uncertainty DL RL Units DF Time Batch Method AnalystDate Rad Gamma Spec Analysis Gammaspec, Gamma, Solid (Long List) Actinium-228 0.197 +/-0.922 1.43 0.800 pCi/g AKB 05/18/05 1902 423794 1 Americium-241 U 0.130 +/-0.685 0.918 0.200 pCi/g pCi/g Antimony-124 U -0.0715+/-0.196 0.306 0.100 Antimony-125 U +/-0.370 0.580 -0.1730.200 pCi/g Barium-133 U -0.0401+/-0.160 0.252 0.100 pCi/g Barium-140 U 1.92 +/--2.19 3.35 0.500 pCi/g Beryllium-7 U -0.727+/-1.55 2.43 0.700 pCi/g Bismuth-212 U 0.154 +/-1.582.29 0.500 pCi/g Bismuth-214 U 0.269 +/-0.305 0.485 0.200 pCi/g Cerium-139 U 0.0405 +/-0.0979 0.147 0.050 pCi/g Cerium-141 U +/-0.240 0.270 0.362 0.100 pCi/g +/-0.750 Cerium-144 U 0.349 0.939 0.500 pCi/g Cesium-134 U -0.0179+/-0.2320.359 0.100 pCi/g Cesium-136 U 0.0843 +/-1.232.01 0.300 pCi/g +/-0.370 Cesium-137 2.58 0.286 0.100 pCi/g Chromium-51 U 0.389 +/-1.96 2.90 0.600 pCi/g Cobalt-56 U 0.0497 +/-0.269 0.418 0.100 pCi/g Cobalt-57 U -0.0208+/-0.0899 0.119 0.050 pCi/g Cobalt-58 U -0.0932+/-0.260 0.400 0.100 pCi/g Cobalt-60 109 +/-6.61 0.195 0.100 pCi/g Europium-152 U 0.404 +/-0.546 0.570 0.200 pCi/g Europium-154 U 0.011 +/-0.340 0.559 0.500 pCi/g Europium-155 -0.144U +/-0.354 0.469 0.500 pCi/g Iridium-192 U -0.0602+/-0.153 0.225 0.100 pCi/g Iron-59 U 0.0374 +/-0.692 1.12 0.300 pCi/g Lead-210 +/-25.9 U 28.5 34.8 4.00 pCi/g Lead-212 U 0.0179 +/-0.284 0.312 0.100 pCi/g pCi/g Lead-214 U 0.188 +/-0.2600.415 0.100 Manganese-54 U 0.0674 +/-0.225 0.351 0.100 pCi/g +/-0.180 U 0.100 Mercury-203 0.177 0.270 pCi/g U +/-4.98 7.89 1000 Neodymium-147 2.11 pCi/g U -0.299+/-0.649 0.858 2.00 Neptunium-239 pCi/g Niobium-94 U -0.107+/-0.164 0.252 1.00 pCi/g Niobium-95 U 0.297 +/-0.3110.491 0.050 pCi/g Potassium-40 2.76 +/-1.51 1.44 1.00 pCi/g Promethium-144 U -0.0367+/-0.171 0.265 0.080 pCi/g

0.278

1.43

1.00

0.500

pCi/g

pCi/g

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company: WPI

Address: 11 S. 12th Street

Suite 210

Richmond, Virginia 23219

Contact: Mr. John Bowen

Project: Radiochemistry Analytical

Report Date: May 25, 2005

	Client Sample Sample ID:	e ID:	Paint Sample 135938006	#14		Proje Clier	ect: nt ID:	WPIA00105 WPIA001			
Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time 1	Batch	Method
Rad Gamma Spec Analys	sis								* ****		
Gammaspec, Gamma, Sc	olid (Long List)										
Ruthenium-106	U	1.03	+/-1.52	2.40	0.800	pCi/g					
Silver-110m	U	0.0449	+/-0.197	0.271	0.080	pCi/g					
Sodium-22	U	0.00206	+/-0.122	0.201	0.080	pCi/g					
Thallium–208	U	0.0994	+/-0.161	0.256	0.080	pCi/g					
Thorium-230	U	0.269	+/-0.305	0.485	1.00	pCi/g					
Thorium-234	U	2.12	+/-5.19	6.97	5.00	pCi/g					
Tin-113	U	0.136	+/-0.183	0.293	0.100	pCi/g					
Uranium-235	U	0.270	+/-0.634	0.948	0.500	pCi/g					
Uranium–238	U	2.12	+/-5.19	6.97	1.00	pCi/g					
Yttrium–88	U	0.0483	+/-0.0995	0.179	0.100	pCi/g					
Zinc-65	U	0.400	+/-0.545	0.893	0.300	pCi/g					
Zirconium-95	U	-0.0509	+/-0.428	0.665	0.200	pCi/g					
Rad Gas Flow Proportion	nal Counting										
GFPC, Gross A/B, solid											
Alpha		11.9	+/-3.17	2.54	4.00	pCi/g		SXE1 05/24/05	1940 42	3849	2
Beta		135	+/-5.18	2.25	10.0	pCi/g					-
The following Analytical	Methods were	performed									

Method	Description	Analyst Comments	
1	EML HASL 300, 4.5.2.3		
2	EPA 900.0 Modified		

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company: WPI

11 S. 12th Street Address:

Suite 210

Richmond, Virginia 23219

Contact: Mr. John Bowen

Project: Radiochemistry Analytical

Client Sample ID:

Sample ID:

Matrix:

135938007 Misc Solid 22-APR-05 10:07

Collect Date: Receive Date:

U

U

U

U

U

U

U

U

U

U

U

U

U

Lead-210

Lead-212

Lead-214

Manganese-54

Neodymium-147

Neptunium-239 Niobium-94

Mercury-203

Niobium-95

Potassium-40

Radium-228

Promethium-144 Promethium-146 05-MAY-05

+/-11.0

+/-1.02

+/-1.46

+/-0.506

+/-0.537

+/-15.8

+/-1.83

+/-0.429

+/-0.750

+/-0.453

+/-0.690

+/-2.01

+/-8.76

2.46

0.140

0.870

0.618

13.4

0.716

-0.137

0.323 3.47

0.192

0.608

1.49

-0.0286

Paint Sample #19

Report Date: May 25, 2005

Project: Client ID: WPIA00105 WPIA001

	Collector:		Client								
Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Rad Gamma Spec An	alysis										
Gammaspec, Gamma	ı, Solid (Long List)										
Actinium-228	U	1.49	+/-2.01	3.08	0.800	pCi/g		AKB 05/18/0	5 1903	423794	1
Americium-241	U	-0.203	+/-0.538	0.718	0.200	pCi/g					
Antimony-124	U	-0.421	+/-0.602	0.876	0.100	pCi/g					
Antimony-125	U	0.116	+/-1.30	1.99	0.200	pCi/g					
Barium-133	U	0.854	+/-0.742	0.897	0.100	pCi/g					
Barium-140	U	1.25	+/-6.66	10.3	0.500	pCi/g					
Beryllium-7	U	-1.07	+/-5.69	8.58	0.700	pCi/g					
Bismuth-212	U	-1.14	+/-3.76	6.05	0.500	pCi/g					
Bismuth-214	U	0.584	+/-1.47	1.64	0.200	pCi/g					
Cerium-139	U	0.0314	+/-0.294	0.449	0.050	pCi/g					
Cerium-141	U	0.696	+/-0.844	1.19	0.100	pCi/g					
Cerium-144	U	1.17	+/-2.06	2.89	0.500	pCi/g					
Cesium-134	U	0.0305	+/-0.554	0.910	0.100	pCi/g					
Cesium-136	U	0.0629	+/-2.57	4.22	0.300	pCi/g					
Cesium-137		51.0	+/-1.98	0.807	0.100	pCi/g					
Chromium-51	U	1.85	+/-6.03	9.32	0.600	pCi/g					
Cobalt-56	U	-0.338	+/-0.585	0.923	0.100	pCi/g					
Cobalt-57	U	0.0908	+/-0.252	0.350	0.050	pCi/g					
Cobalt-58	U	0.296	+/-0.558	0.950	0.100	pCi/g					
Cobalt-60		11.6	+/-1.28	0.850	0.100	pCi/g					
Europium-152	U	0.0469	+/-1.34	1.83	0.200	pCi/g					
Europium-154	U	0.180	+/-1.34	2.24	0.500	pCi/g					
Europium-155	U	-0.565	+/-0.964	1.29	0.500	pCi/g					
Iridium–192	U	0.0807	+/-0.474	0.728	0.100	pCi/g					
Iron-59	U	0.497	+/-1.39	2.34	0.300	pCi/g					

5.79

0.881

0.825

0.856

25.3

2.55

0.691

1.26

6.87

0.760

1.09

3.08

1.41

4.00

0.100

0.100

0.100

0.100

1000

2.00

1.00

0.050

1.00

0.080

1.00

0.500

pCi/g

pCi/g

pCi/g

pCi/g

pCi/g

pCi/g

pCi/g

pCi/g

pCi/g

pCi/g

pCi/g

pCi/g

pCi/g

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company: WPI

Address: 11 S. 12th Street

Suite 210

Richmond, Virginia 23219

Contact: Mr. John Bowen

Project: Radiochemistry Analytical

Report Date: May 25, 2005

	Client Sample Sample ID:	e ID:	Paint Sample : 135938007	#19		Proj Clie	ect: nt ID:	WPIA00105 WPIA001			
Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Rad Gamma Spec Anal	ysis										
Gammaspec, Gamma,	Solid (Long List)										
Ruthenium-106	U	-1.25	+/-4.06	6.57	0.800	pCi/g					
Silver-110m	U	-3.98	+/-0.654	0.763	0.080	pCi/g					
Sodium-22	U	0.0694	+/-0.482	0.807	0.080	pCi/g					
Thallium-208	UUI	0.00	+/-1.04	0.932	0.080	pCi/g					
Thorium-230	U	0.584	+/-1.47	1.41	1.00	pCi/g					
Thorium-234	U	3.80	+/-12.1	11.7	5.00	pCi/g					
Tin-113	U	-0.0137	+/-0.621	0.947	0.100	pCi/g					
Uranium-235	UUI	0.00	+/-2.20	3.18	0.500	pCi/g					
Uranium-238	U	3.80	+/-12.1	7.00	1.00	pCi/g					
Yttrium-88	U	0.0243	+/-0.457	0.831	0.100	pCi/g					
Zinc-65	U	0.681	+/-1.13	1.93	0.300	pCi/g					
Zirconium-95	U	-0.529	+/-1.07	1.70	0.200	pCi/g					
Rad Gas Flow Proportion	onal Counting										
GFPC, Gross A/B, solid	1										
Alpha		3.25	+/-2.10	2.71	4.00	pCi/g		SXE1 05/24/05	1940 4	23849	2
Beta		69.1	+/-3.76	2.37	10.0	pCi/g					

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EML HASL 300, 4.5.2.3	
2	EPA 900.0 Modified	

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company: WPI

Parameter

11 S. 12th Street Address:

Suite 210

Richmond, Virginia 23219

Contact: Mr. John Bowen

Project: Radiochemistry Analytical

Client Sample ID:

Paint Sample #27 Sample ID: 135938008

Matrix: Collect Date: Misc Solid 22-APR-05 10:28

Result Uncertainty

Receive Date:

Qualifier

05-MAY-05

Collector: Client Report Date: May 25, 2005

Project: Client ID:

Units

DF

WPIA00105 WPIA001

AnalystDate

Time Batch Method

Rad Gamma Spec Analys	is				1,,				
Gammaspec, Gamma, So.	lid (Long List)								
Actinium-228	U	2.16	+/-3.29	5.56	0.800	pCi/g	AKB	05/18/05 1906 423794	1
Americium-241	U	3.21	+/-3.52	4.69	0.200	pCi/g			
Antimony-124	U	0.302	+/-1.19	1.64	0.100	pCi/g			
Antimony-125	U	-2.6	+/-3.04	4.53	0.200	pCi/g			

DL

RL

U -0.952+/-1.261.88 0.100 pCi/g Barium-133 +/-14.5 20.3 0.500 pCi/g Barium-140 U 9.99 +/-12.8 19.7 0.700 pCi/g 2.94 Beryllium-7 U +/-6.27 10.0 0.500 pCi/g U 2.78 Bismuth-212 Bismuth-214 U 2.36 +/-3.52 2.83 0.200 pCi/g pCi/g 0.050 U +/-0.787 1.07 Cerium-139 -0.7082.59 0.100 pCi/g U +/-1.87 0.0367 Cerium-141 +/-4.90 6.60 0.500 pCi/g U -4.6Cerium-144 pCi/g U 0.0825 +/-0.928 1.45 0.100 Cesium-134 +/-4.41 7.37 0.300 pCi/g Cesium-136 U 0.864 +/-5.67 0.100 pCi/g 1.38 Cesium-137 342 U +/-13.9 21.2 0.600pCi/g Chromium-51 1.73 pCi/g U 0.399 +/-1.06 1.68 0.100 Cobalt-56 0.050 pCi/g +/-0.996 0.846 U 0.824 Cobalt-57 0.429 0.100 pCi/g U +/-1.031.65 Cobalt-58 Cobalt-60 84.6 +/-3.74 1.00 0.100 pCi/g 0.200 pCi/g U +/-2.814.26 Europium-152 -0.226+/-1.78 2.81 0.500 pCi/g U 0.768 Europium-154 +/-2.36 3.28 0.500 pCi/g U 1.12 Europium-155 U 0.0901 +/-1.08 1.64 0.100 pCi/g Iridium-192 +/-2.37 3.97 0.300 pCi/g Iron-59 U 0.585 +/-105 122 4.00 pCi/g U -49.9Lead-210 +/-1.49 2.29 0.100 pCi/g U 1.54 Lead-212 0.100 pCi/g Lead-214 U 1.17 +/-2.05 3.16 0.100 pCi/g 0.285 +/-0.848 1.35 Manganese-54 U U +/-1.261.94 0.100 pCi/g 1.11 Mercury-203 +/-31.7 47.6 1000 pCi/g Neodymium-147 U -21.66.22 2.00 pCi/g U 0.740 +/-4.51 Neptunium-239 1.00 pCi/g U 0.0713 +/-0.710 1.11 Niobium-94 +/-1.19 1.97 0.050 pCi/g U 1 15 Niobium-95 UUI 0.00 +/-6.91 13.5 1.00 pCi/g Potassium-40 0.080 pCi/g U -0.0423+/-0.735 1.14 Promethium-144 +/-1.56 2.36 1.00 pCi/g U -0.61Promethium-146 U 2.16 +/-3.29 Radium-228

5.56 0.500 pCi/g

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company: WPI

Address: 11 S. 12th Street

Suite 210

Richmond, Virginia 23219

Contact: Mr. John Bowen

Project: Radiochemistry Analytical

Report Date: May 25, 2005

	Client Sample Sample ID:	ID:	Paint Sample # 135938008	‡27		Proje Clien		WPIA00105 WPIA001			
Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Rad Gamma Spec Analy	sis										
Gammaspec, Gamma, So	olid (Long List)										
Ruthenium-106	U	-3.49	+/-8.16	12.4	0.800	pCi/g					
Silver-110m	UUI	0.00	+/-1.55	2.91	0.080	pCi/g					
Sodium-22	U	0.277	+/-0.641	1.01	0.080	pCi/g					
Thallium-208	U	1.35	+/-1.29	1.40	0.080	pCi/g					
Thorium-230	U	2.36	+/-3.52	2.83	1.00	pCi/g					
Thorium-234	U	22.2	+/-29.8	36.7	5.00	pCi/g					
Tin-113	U	-0.311	+/-1.45	2.20	0.100	pCi/g					
Uranium-235	U	3.27	+/-5.48	6.88	0.500	pCi/g					
Uranium-238	U	22.2	+/-29.8	36.7	1.00	pCi/g					
Yttrium-88	U	0.211	+/-0.658	1.20	0.100	pCi/g					
Zinc-65	U	-0.929	+/-1.93	3.10	0.300	pCi/g					
Zirconium-95	U	0.425	+/-1.74	2.76	0.200	pCi/g					
Rad Gas Flow Proportion	nal Counting										
GFPC, Gross A/B, solid											
Alpha		3.71	+/-2.87	2.38	4.00	pCi/g		SXE1 05/24/05	5 1940 42	23849	2
Beta		480	+/-9.44	2.02	10.0	pCi/g					

The following Analytical Methods were performed

Method	Description	Analyst Comments	
1	EML HASL 300, 4.5.2.3		

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Report Date: May 25, 2005

WPIA00105

WPIA001

Project: Client ID:

Certificate of Analysis

Company: WPI

Address: 11 S. 12th Street

Suite 210

Richmond, Virginia 23219

Mr. John Bowen Contact:

Project: Radiochemistry Analytical

Client Sample ID: Sample ID: Matrix: Collect Date:

Paint Sample #2

135938009 Misc Solid

20-APR-05 08:27

Receive Date: Collector:

05-MAY-05

	Collector:		Client				
Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF AnalystDate Time Batch Meth
Rad Gamma Spec Analysi	S						
Gammaspec, Gamma, Sol	id (Long List)						
Actinium-228	U	5.02	+/-5.42	7.72	0.800	pCi/g	AKB 05/19/05 1224 423794 1
Americium-241	U	-5.89	+/-8.21	9.74	0.200	pCi/g	11110 00/13/00 1221 120/31
Antimony-124	U	0.789	+/-1.31	2.29	0.100	pCi/g	
Antimony–125	U	-0.685	+/-2.58	3.94	0.200	pCi/g	
Barium-133	U	-0.776	+/-1.72	2.20	0.100	pCi/g	
Barium-140	U	6.18	+/-16.4	26.6	0.500	pCi/g	
Beryllium-7	U	-6.13	+/-11.4	17.0	0.700	pCi/g	
Bismuth-212	U	3.43	+/-6.88	12.4	0.500	pCi/g	
Bismuth-214	U	0.556	+/-3.00	3.92	0.200	pCi/g	
Cerium-139	U	0.193	+/-0.936	1.41	0.050	pCi/g	
Cerium-141	U	-0.062	+/-2.50	3.69	0.100	pCi/g	
Cerium-144	U	2.23	+/-6.73	8.93	0.500	pCi/g	
Cesium-134	U	0.0677	+/-1.03	1.78	0.100	pCi/g	
Cesium-136	U	0.0964	+/-5.53	9.68	0.300	pCi/g	
Cesium-137	U	1.16	+/-1.59	1.80	0.100	pCi/g	
Chromium-51	U	-5.59	+/-15.7	23.4	0.600	pCi/g	
Cobalt-56	U	-0.185	+/-1.22	2.05	0.100	pCi/g	
Cobalt-57	U	0.300	+/-0.773	1.16	0.050	pCi/g	
Cobalt-58	U	1.38	+/-1.00	1.93	0.100	pCi/g	
Cobalt-60		8.62	+/-2.13	1.71	0.100	pCi/g	
Europium-152	U	0.754	+/-3.40	4.68	0.200	pCi/g	
Europium-154	U	0.167	+/-2.50	4.55	0.500	pCi/g	
Europium-155	U	-1.66	+/-3.22	4.56	0.500	pCi/g	
Iridium–192	U	-0.0439	+/-1.16	1.78	0.100	pCi/g	
Iron-59	U	0.820	+/-2.69	4.90	0.300	pCi/g	
Lead-210	U	234	+/-308	400	4.00	pCi/g	
Lead-212	U	1.06	+/-1.89	2.92	0.100	pCi/g	
Lead-214	U	2.74	+/-2.44	3.99	0.100	pCi/g	
Manganese-54	U	0.161	+/-0.939	1.65	0.100	pCi/g	
Mercury-203	U	-0.52	+/-1.55	2.30	0.100	pCi/g	
Neodymium-147	U	-5.18	+/-44.4	68.9	1000	pCi/g	
Neptunium-239	U	-0.324	+/5.89	8.59	2.00	pCi/g	
Niobium-94	U	-0.248	+/-0.960	1.57	1.00	pCi/g	
Niobium-95	U	0.322	+/-1.59	2.76	0.050	pCi/g	
Potassium-40	U	0.764	+/-16.8	17.5	1.00	pCi/g	
Promethium-144	U	-0.0639	+/-1.15	1.66	0.080	pCi/g	
Promethium-146	U	0.956	+/-1.25	2.10	1.00	pCi/g	
Radium-228	U	5.02	+/-5.42	7.72	0.500	pCi/g	

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Report Date: May 25, 2005

Certificate of Analysis

Company: WPI

Address: 11 S. 12th Street

Suite 210

Richmond, Virginia 23219

Contact:

Mr. John Bowen

Project:

Radiochemistry Analytical

	Client Sample Sample ID:	e ID:	Paint Sample # 135938009	‡ 2		Proi Clie	ect: nt ID:	WPIA00105 WPIA001			
Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Rad Gamma Spec Analy	ysis			-							
Gammaspec, Gamma, S	Solid (Long List)										
Ruthenium-106	U	-0.617	+/-8.55	14.3	0.800	pCi/g					
Silver-110m	U	-0.0199	+/-1.09	1.60	0.080	pCi/g					
Sodium-22	U	0.0567	+/-0.901	1.64	0.080	pCi/g					
Thallium-208	U	1.49	+/-1.18	2.13	0.080	pCi/g					
Thorium-230	U	0.556	+/-3.00	3.92	1.00	pCi/g					
Thorium-234	U	56.5	+/60.3	78.9	5.00	pCi/g					
Tin-113	U	-0.88	+/-1.43	2.10	0.100	pCi/g					
Uranium-235	U	4.13	+/-6.28	9.49	0.500	pCi/g					
Uranium-238	U	56.5	+/-60.3	78.9	1.00	pCi/g					
Yttrium–88	U	0.377	+/-0.979	2.08	0.100	pCi/g					
Zinc-65	U	0.0904	+/-2.17	3.80	0.300	pCi/g					
Zirconium-95	U	0.575	+/-2.14	3.75	0.200	pCi/g					
Rad Gas Flow Proportio	nal Counting										
GFPC, Gross A/B, solia	!										
Alpha	U	0.293	+/-1.31	2.66	4.00	pCi/g		SXE1 05/24/05	1940 4	23849	2
Beta		11.0	+/-1.81	2.32	10.0	pCi/g					

The following A	nalytical Methods were performed		
Method	Description	Analyst Comments	
1	FMI HASI 300 4523		

2

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company: WPI

Parameter

Radium-228

11 S. 12th Street Address:

Suite 210

Richmond, Virginia 23219

Contact: Mr. John Bowen

Project: Radiochemistry Analytical

Client Sample ID:

Sample ID:

Matrix:

Collect Date: Receive Date:

Qualifier

UUI

Collector:

Paint Sample #1 135938010

Misc Solid 20-APR-05 10:00 05-MAY-05

Client Result Uncertainty Project:

DF

WPIA00105 Client ID: WPIA001

AnalystDate

Time Batch Method

Report Date: May 25, 2005

Rad Gamma Spec Analysis Gammaspec, Gamma, Solid (Long List) 0.800 AKB 05/19/05 1226 423794 Actinium-228 0.00 +/-2.312.47 pCi/g 1 -0.1840.200 +/-1.15 1.11 pCi/g Americium-241 U

DL

RL

Units

pCi/g Antimony-124 U 0.177 +/-0.5010.835 0.100 pCi/g U +/-0.961 0.200 Antimony-125 -0.4511.48 Barium-133 U 0.108 +/-0.5540.782 0.100 pCi/g Barium-140 U -0.90+/-6.55 10.4 0.500 pCi/g Beryllium-7 U -0.856+/-3.78 5.99 0.700 pCi/g Bismuth-212 U 3.32 +/-4.02 4.60 0.500 pCi/g Bismuth-214 U 1.36 +/-0.895 1.58 0.200 pCi/g U 0.444 0.050 pCi/g +/-0.358 Cerium-139 -0.12Cerium-141 U 0.818 +/-0.861 1.29 0.100 pCi/g Cerium-144 U +/-2.15 2.96 0.500 pCi/g -1.13U +/-0.442 0.780 0.100 pCi/g Cesium-134 0.113 pCi/g Cesium-136 U -2.03+/-2.143.26 0.300 U 0.0559 +/-0.783 0.664 0.100 pCi/g Cesium-137 Chromium-51 U 1.18 +/-5.70 9.10 0.600 pCi/g U +/-0.474 0.100 Cobalt-56 -0.03730.813 pCi/g U -0.184+/-0.267 0.365 0.050 pCi/g Cobalt-57 U +/-0.429 0.792 0.100 pCi/g Cobalt-58 0.225 Cobalt-60 U 0.108 +/-0.384 0.717 0.100 pCi/g U +/-1.03 0.200 pCi/g Europium-152 0.461 1.67 Europium-154 pCi/g U 0.495 +/-1.10 2.08 0.500 Europium-155 U 0.199 +/-0.978 1.40 0.500 pCi/g Iridium-192 U -0.168+/-0.437 0.670 0.100 pCi/g -0.152 1.79 0.300 Iron-59 U +/-1.04pCi/g 4.00 Lead-210 U 13.7 +/-10.6 14.1 pCi/g UUI 0.00 +/-1.38 0.874 0.100 pCi/g Lead-212 +/-1.32 1.37 0.100 pCi/g Lead-214 U 0.251 +/-0.361 0.602 0.100 pCi/g Manganese-54 U -0.138Mercury-203 U 0.530 +/-1.210.762 0.100 pCi/g Neodymium-147 U -1.4+/-15.224.3 1000 pCi/g U -0.951 +/-1.82 2.52 2.00 pCi/g Neptunium-239 Niobium-94 U +/-0.394 0.658 1.00 pCi/g 0.143 Niobium-95 U 0.655 +/-1.34 1.13 0.050 pCi/g Potassium-40 U 8.18 +/-4.14 9.21 1.00 pCi/g +/-0.418 0.080 U 0.747 pCi/g Promethium-144 0.496 +/-0.456 pCi/g Promethium-146 U -0.03150.728 1.00

0.00

+/-2.31

207

2.47

0.500

pCi/g

GENERAL ENGINEERING LABORATORIES, LLC 2040 Savage Road Charleston SC 29407 – (843) 556–8171 – www.gel.com

Certificate of Analysis

Company: WPI

11 S. 12th Street Address:

Suite 210

Richmond, Virginia 23219

Mr. John Bowen Contact:

Project: Radiochemistry Analytical Report Date: May 25, 2005

	Client Sample Sample ID:	e ID:	Paint Sample 135938010	#1		Proje Clier	ect: nt ID:	WPIA00105 WPIA001			
Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Rad Gamma Spec Analys	sis										
Gammaspec, Gamma, Se	olid (Long List)										
Ruthenium-106	U	0.0973	+/-3.61	5.87	0.800	pCi/g					
Silver-110m	U	0.235	+/-0.436	0.668	0.080	pCi/g					
Sodium-22	U	0.177	+/-0.395	0.748	0.080	pCi/g					
Thallium-208	U	0.069	+/-0.593	0.697	0.080	pCi/g					
Thorium-230	U	1.36	+/-0.895	1.58	1.00	pCi/g					
Thorium-234	U	1.84	+/-13.9	9.25	5.00	pCi/g					
Tin-113	U	0.063	+/-0.491	0.791	0.100	pCi/g					
Uranium-235	U	0.323	+/-2.19	3.14	0.500	pCi/g					
Uranium-238	U	1.84	+/-13.9	9.25	1.00	pCi/g					
Yttrium-88	U	0.159	+/-0.469	0.954	0.100	pCi/g					
Zinc-65	U	-0.093	+/-0.913	1.37	0.300	pCi/g					
Zirconium-95	U	-0.166	+/-0.785	1.33	0.200	pCi/g					
Rad Gas Flow Proportion	nal Counting										
GFPC, Gross A/B, solid											
Alpha	U	0.588	+/-1.37	2.56	4.00	pCi/g		SXE1 05/24/05	5 1941 42	23849	2
Beta	U	2.86	+/-1.58	2.90	10.0	pCi/g					
The following Analytical	l Methods were	performed									

Method	Description	Analyst Comments
1	EML HASL 300, 4.5.2.3	

2

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Report Date: May 25, 2005

WPIA00105

WPIA001

Project: Client ID:

Certificate of Analysis

Company: WPI

11 S. 12th Street Address:

Suite 210

Richmond, Virginia 23219

Mr. John Bowen Contact:

Project: Radiochemistry Analytical

Client Sample ID: Sample ID:

135938011 Matrix: Misc Solid

Collect Date: Receive Date: 21-APR-05 11:00 05-MAY-05

Core bore Sample #5

Collector: Client

Qualifier Result Uncertainty Parameter DL RLUnits DF AnalystDate Time Batch Method

Rad Liquid Scintillation Analysis

LSC, Tritium Dist, Solid

U +/-2.84 5.12 6.00 ATH1 05/18/05 0700 425676 -2.06 pCi/g Tritium

The following Analytical Methods were performed

Analyst Comments Method Description

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Report Date: May 25, 2005

WPIA00105

WPIA001

Project:

Client ID:

Certificate of Analysis

Company: WPI

Address: 11 S. 12th Street

Suite 210

Richmond, Virginia 23219

Contact: Mr. John Bowen

Project: Radiochemistry Analytical

Client Sample ID:

Core bore Sample #6

Sample ID: Matrix: 135938012 Misc Solid

Collect Date: Receive Date:

21-APR-05 11:48 05-MAY-05

Collector: Client

Parameter Qualifier Result Uncertainty DL RL Units DF AnalystDate Time Batch Method

Rad Liquid Scintillation Analysis

LSC, Tritium Dist, Solid

Tritium U 0.683 +/-2.90 4.99 6.00 pCi/g ATH1 05/18/05 0732 425676 1

The following Analytical Methods were performed

Method Description Analyst Comments

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Report Date: May 25, 2005

WPIA00105

WPIA001

Project:

Client ID:

Certificate of Analysis

Company: WPI

11 S. 12th Street Address:

Suite 210

Richmond, Virginia 23219

Mr. John Bowen Contact:

Project: Radiochemistry Analytical

Client Sample ID: Sample ID:

Core bore Sample #5 Outside 135938013

Matrix: Collect Date:

21-APR-05 11:00

Receive Date:

05-MAY-05 Client

Misc Solid

Collector:

Parameter Qualifier Result Uncertainty RLUnits DF AnalystDate Time Batch Method DL

Rad Liquid Scintillation Analysis

LSC, Tritium Dist, Solid

U 5.05 ATH1 05/18/05 0803 425676 0.628 +/-2.92 6.00 pCi/g Tritium

The following Analytical Methods were performed

Analyst Comments Method Description

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company: WPI

Address: 11 S. 12th Street

Suite 210

Richmond, Virginia 23219

Mr. John Bowen Contact:

Project: Radiochemistry Analytical

Client Sample ID: Sample ID: Matrix:

Core bore Sample #6 Outside

135938014 Misc Solid

Collect Date: Receive Date:

Qualifier

21-APR-05 11:48 05-MAY-05

Collector:

Client Result Uncertainty RLUnits \mathbf{DL} DF AnalystDate Time Batch Method

Project: Client ID:

Report Date: May 25, 2005

WPIA00105

WPIA001

Rad Liquid Scintillation Analysis

LSC, Tritium Dist, Solid

Parameter

Tritium U -0.738+/-2.97 5.23 6.00 ATH1 05/18/05 0835 425676 pCi/g

The following Analytical Methods were performed

Method Description **Analyst Comments**

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company: WPI

Address: 11 S. 12th Street

Suite 210

Richmond, Virginia 23219

Mr. John Bowen Contact:

Project: Radiochemistry Analytical

Core bore Sample #5 Middle

Project: Client ID:

WPIA00105 WPIA001

Report Date: May 25, 2005

135938015 Misc Solid

Client Sample ID: Sample ID: Matrix: Collect Date: Receive Date:

21-APR-05 11:00 05-MAY-05

Collector: Client

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF AnalystDate Time	Batch Method
Rad Gamma Spec Analys	sis							
Gammaspec, Gamma, Se	olid (Long List))						
Actinium-228		0.497	+/-0.143	0.131	0.800	pCi/g	AKB 05/11/05 1730 4	424563 1
Americium-241	U	0.0697	+/-0.0894	0.151	0.200	pCi/g		
Antimony-124	U	-0.0252	+/-0.024	0.0391	0.100	pCi/g		
Antimony-125	U	0.00409	+/-0.0464	0.084	0.200	pCi/g		
Barium-133	U	0.00492	+/-0.0235	0.0377	0.100	pCi/g		
Barium–140	U	-0.0876	+/-0.182	0.309	0.500	pCi/g		
Beryllium-7	U	0.222	+/-0.199	0.375	0.700	pCi/g		
Bismuth-212	U	0.143	+/-0.271	0.292	0.500	pCi/g		
Bismuth-214		0.266	+/-0.0816	0.062	0.200	pCi/g		
Cerium-139	U	0.0013	+/-0.015	0.0266	0.050	pCi/g		
Cerium-141	U	0.0244	+/-0.0449	0.0604	0.100	pCi/g		
Cerium-144	U	-0.0594	+/-0.105	0.181	0.500	pCi/g		
Cesium-134	U	0.0322	+/-0.0305	0.0414	0.100	pCi/g		
Cesium-136	U	0.0459	+/-0.0828	0.155	0.300	pCi/g		
Cesium-137	U	-0.0109	+/-0.0198	0.0333	0.100	pCi/g		
Chromium-51	U	0.0668	+/-0.210	0.388	0.600	pCi/g		
Cobalt-56	U	-0.000919	+/-0.0257	0.0402	0.100	pCi/g		
Cobalt-57	U	-0.012	+/-0.0126	0.0217	0.050	pCi/g		
Cobalt-58	U	-0.0235	+/-0.0208	0.0343	0.100	pCi/g		
Cobalt-60	U	-0.00629	+/-0.0212	0.0369	0.100	pCi/g		
Europium-152	U	-0.0343	+/-0.0504	0.0878	0.200	pCi/g		
Europium-154	U	-0.0529	+/-0.0703	0.116	0.500	pCi/g		
Europium-155	U	0.0254	+/-0.0542	0.0993	0.500	pCi/g		
Iridium-192	U	-0.00335	+/-0.0178	0.0321	0.100	pCi/g		
Iron-59	U	-0.0577	+/-0.0574	0.0933	0.300	pCi/g		
Lead-210	U	1.33	+/-2.59	4.09	4.00	pCi/g		
Lead-212		0.429	+/-0.069	0.0496	0.100	pCi/g		
Lead-214		0.331	+/-0.0729	0.0671	0.100	pCi/g		
Manganese-54	U	-0.00191	+/-0.0387	0.0375	0.100	pCi/g		
Mercury-203	U	-0.00951	+/-0.0252	0.0389	0.100	pCi/g		
Neodymium-147	U	0.271	+/-0.441	0.812	1000	pCi/g		
Neptunium-239	U	0.0326	+/-0.0917	0.167	2.00	pCi/g		
Niobium-94	U	0.0141	+/-0.0181	0.0336	1.00	pCi/g		
Niobium-95	U	0.0244	+/-0.0284	0.0546	0.050	pCi/g		
Potassium-40		13.8	+/-1.33	0.225	1.00	pCi/g		
Promethium-144	U	-0.00153	+/-0.0186	0.0324	0.080	pCi/g		
Promethium-146	U	0.00226	+/-0.0236	0.0425	1.00	pCi/g		
Radium-228		0.497	+/-0.143	0.131	0.500	pCi/g		

GENERAL ENGINEERING LABORATORIES, LLC 2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company: WPI

11 S. 12th Street Address:

Suite 210

Richmond, Virginia 23219

EML HASL 300, 4.5.2.3

Mr. John Bowen Contact:

Project: Radiochemistry Analytical Report Date: May 25, 2005

	Client Sample Sample ID:	e ID:	Core bore Sai 135938015	mple #5	Middle	Proj Clie	ect: nt ID:	WPIA00105 WPIA001			
Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Rad Gamma Spec An	alysis										
Gammaspec, Gamma	, Solid (Long List)										
Ruthenium-106	U	0.0363	+/-0.180	0.321	0.800	pCi/g					
Silver-110m	U	0.00555	+/-0.0178	0.0323	0.080	pCi/g					
Sodium-22	U	-0.0187	+/-0.0252	0.0416	0.080	pCi/g					
Thallium-208		0.0996	+/-0.0463	0.0349	0.080	pCi/g					
Thorium-230		0.266	+/-0.0816	0.062	1.00	pCi/g					
Thorium-234	U	0.247	+/-0.860	1.16	5.00	pCi/g					
Tin-113	U	-0.014	+/-0.025	0.0436	0.100	pCi/g					
Uranium-235	U	0.0729	+/-0.134	0.174	0.500	pCi/g					
Uranium-238	U	0.247	+/-0.860	1.16	1.00	pCi/g					
Yttrium-88	U	0.0217	+/-0.0189	0.0418	0.100	pCi/g					
Zinc-65	U	-0.0121	+/-0.0599	0.0893	0.300	pCi/g					
Zirconium-95	U	0.029	+/-0.0395	0.0759	0.200	pCi/g					
The following Prep N	1ethods were perfo	rmed									
Method	Description				Analyst	Date	Time	Prep Batch			
Dry Soil Prep	Dry Soil Prep	GL-RAD-A	A-021		TCI	05/10/05	1412	423806			
The following Analyt	ical Methods were	performed									
Method	Description				1	Analyst Comments					

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company: WPI

Address: 11 S. 12th Street

Suite 210

Richmond, Virginia 23219

Mr. John Bowen Contact:

Project: Radiochemistry Analytical

Core bore Sample #6 Middle

135938016

Client Sample ID: Sample ID: Matrix: Collect Date:

Misc Solid 21-APR-05 11:48 05-MAY-05

Receive Date: Collector:

WPIA00105 Project: Client ID: WPIA001

Report Date: May 25, 2005

Client

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Rad Gamma Spec Analy	sis										
Gammaspec, Gamma, S	olid (Long List)										
Actinium-228		0.451	+/-0.0835	0.056	0.800	pCi/g		AKB 05/11/0	5 1928	424563	1
Americium-241	U	0.0262	+/-0.036	0.0648	0.200	pCi/g					
Antimony-124	U	-0.00521	+/-0.0104	0.0185	0.100	pCi/g					
Antimony-125	U	0.00475	+/-0.0228	0.041	0.200	pCi/g					
Barium-133	U	-0.00066	+/-0.0117	0.0186	0.100	pCi/g					
Barium-140	U	-0.00973	+/-0.0887	0.154	0.500	pCi/g					
Beryllium-7	U	-0.0833	+/-0.0849	0.143	0.700	pCi/g					
Bismuth-212		0.261	+/-0.116	0.122	0.500	pCi/g					
Bismuth-214		0.139	+/-0.0419	0.0313	0.200	pCi/g					
Cerium-139	U	0.000945	+/-0.00737	0.0133	0.050	pCi/g					
Cerium-141	U	-0.00436	+/-0.0162	0.0293	0.100	pCi/g					
Cerium-144	U	0.00552	+/-0.0526	0.0867	0.500	pCi/g					
Cesium-134	U	0.0158	+/-0.0158	0.0215	0.100	pCi/g					
Cesium-136	U	0.0245	+/-0.0398	0.0712	0.300	pCi/g					
Cesium-137	U	-0.00994	+/-0.00979	0.0168	0.100	pCi/g					
Chromium-51	U	0.0752	+/-0.103	0.193	0.600	pCi/g					
Cobalt-56	U	-0.0106	+/-0.0109	0.0182	0.100	pCi/g					
Cobalt-57	U	-0.00274	+/-0.00575	0.0105	0.050	pCi/g					
Cobalt-58	U	-0.00904	+/-0.0108	0.0182	0.100	pCi/g					
Cobalt-60	U	-0.0107	+/-0.0108	0.0177	0.100	pCi/g					
Europium-152	U	-0.0163	+/-0.0237	0.042	0.200	pCi/g					
Europium-154	U	0.00324	+/-0.0349	0.0619	0.500	pCi/g					
Europium-155	U	0.0269	+/-0.0238	0.0458	0.500	pCi/g					
Iridium-192	U	-0.00895	+/-0.00872	0.0154	0.100	pCi/g					
Iron-59	U	-0.00726	+/-0.0281	0.0496	0.300	pCi/g					
Lead-210	U	0.667	+/-1.04	1.75	4.00	pCi/g					
Lead-212		0.447	+/-0.0459	0.024	0.100	pCi/g					
Lead-214		0.172	+/-0.0409	0.0303	0.100	pCi/g					
Manganese-54	U	0.0101	+/-0.0167	0.0174	0.100	pCi/g					
Mercury-203	U	0.0194	+/-0.0119	0.0206	0.100	pCi/g					
Neodymium-147	U	-0.154	+/-0.206	0.345	1000	pCi/g					
Neptunium–239	U	0.0381	+/-0.0437	0.0828	2.00	pCi/g					
Niobium–94	U	0.00053	+/-0.00883	0.0159	1.00	pCi/g					
Niobium–95	U	-0.00657	+/-0.0156	0.0233	0.050	pCi/g					
Potassium-40		12.1	+/-0.902	0.148	1.00	pCi/g					
Promethium-144	U	-0.00143	+/-0.00938	0.0167	0.080	pCi/g					
Promethium-146	U	-0.00955	+/-0.011	0.0186	1.00	pCi/g					
Radium-228		0.451	+/-0.0835	0.056	0.500	pCi/g					

GENERAL ENGINEERING LABORATORIES, LLC 2040 Savage Road Charleston SC 29407 – (843) 556–8171 – www.gel.com

Certificate of Analysis

Company: WPI

11 S. 12th Street Address:

Suite 210

Richmond, Virginia 23219

Contact: Mr. John Bowen

Project: Radiochemistry Analytical Report Date: May 25, 2005

	Client Sampl Sample ID:	e ID:	Core bore Sar 135938016	nple #6	Middle	Proj Clie	ect: nt ID:	WPIA00105 WPIA001		
Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch Method
Rad Gamma Spec Anal	lysis									
Gammaspec, Gamma,	Solid (Long List)									
Ruthenium-106	U	0.0727	+/-0.0826	0.155	0.800	pCi/g				
Silver-110m	U	0.00342	+/-0.0103	0.0166	0.080	pCi/g				
Sodium-22	U	0.00122	+/-0.0125	0.0222	0.080	pCi/g				
Thallium-208		0.157	+/-0.0251	0.0152	0.080	pCi/g				
Thorium-230		0.139	+/-0.0419	0.0313	1.00	pCi/g				
Thorium-234	U	0.163	+/-0.513	0.529	5.00	pCi/g				
Tin-113	U	-0.00775	+/-0.0112	0.0197	0.100	pCi/g				
Uranium-235	U	-0.0072	+/-0.0486	0.0882	0.500	pCi/g				
Uranium-238	U	0.163	+/-0.513	0.529	1.00	pCi/g				
Yttrium-88	U	0.0011	+/-0.00967	0.0179	0.100	pCi/g				
Zinc-65	U	-0.0128	+/-0.0278	0.0414	0.300	pCi/g				
Zirconium-95	U	0.00678	+/-0.0206	0.0372	0.200	pCi/g				
The following Prep Mo	ethods were perfo	ormed								
Method	Description				Analyst	Date	Time	Prep Batch		
Dry Soil Prep	Dry Soil Prep	GL-RAD-	A-021		TCI	05/10/05	1412	423806		
The following Analytic	cal Methods were	performed								

Analyst Comments Method Description

EML HASL 300, 4.5.2.3

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company: WPI

Promethium-146

Radium-228

11 S. 12th Street Address:

Suite 210

Richmond, Virginia 23219

Contact: Mr. John Bowen

Project: Radiochemistry Analytical

Client Sample ID:

Sample ID: Matrix:

Collect Date:

135938017 Misc Solid 21-APR-05 11:00

Steel Disk #5

Report Date: May 25, 2005

WPIA00105 Project: Client ID: WPIA001

	Receive Date		05-MAY-03								
	Collector:		Client								
Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Rad Gamma Spec An	alysis										
Gammaspec, Gamma	a, Solid (Long List))									
Actinium-228	U	0.033	+/-0.0502	0.0438	0.800	pCi/g		AKB 05/19/	05 1544	423794	1
Americium-241	U	-0.00563	+/-0.0156	0.0257	0.200	pCi/g					
Antimony-124	U	0.00355	+/-0.00761	0.0129	0.100	pCi/g					
Antimony-125	U	-0.00388	+/-0.0139	0.0223	0.200	pCi/g					
Barium-133	U	0.000399	+/-0.00704	0.0101	0.100	pCi/g					
Barium-140	U	0.0502	+/-0.0765	0.129	0.500	pCi/g					
Beryllium-7	U	-0.0209	+/-0.0577	0.0913	0.700	pCi/g					
Bismuth-212	U	0.0255	+/-0.0443	0.075	0.500	pCi/g					
Bismuth-214	UUI	0.00	+/-0.0129	0.022	0.200	pCi/g					
Cerium-139	U	-0.00291	+/-0.00457	0.00708	0.050	pCi/g					
Cerium-141	U	0.00369	+/-0.012	0.0193	0.100	pCi/g					
Cerium-144	U	0.0132	+/-0.0284	0.0459	0.500	pCi/g					
Cesium-134	U	0.00112	+/-0.00615	0.0102	0.100	pCi/g					
Cesium-136	U	0.0164	+/-0.0359	0.062	0.300	pCi/g					
Cesium-137	U	0.00294	+/-0.00551	0.00937	0.100	pCi/g					
Chromium-51	U	-0.00265	+/-0.0746	0.122	0.600	pCi/g					
Cobalt-56	U	-0.000924	+/-0.00772	0.0126	0.100	pCi/g					
Cobalt-57	U	0.000374	+/-0.0037	0.00595	0.050	pCi/g					
Cobalt-58	U	-0.00456	+/-0.00721	0.0114	0.100	pCi/g					
Cobalt-60	U	0.0054	+/-0.00677	0.0119	0.100	pCi/g					
Europium-152	U	-0.00592	+/-0.0138	0.0222	0.200	pCi/g					
Europium-154	U	0.0179	+/-0.0251	0.0293	0.500	pCi/g					
Europium-155	U	-0.000213	+/-0.014	0.0227	0.500	pCi/g					
Iridium–192	U	0.00165	+/-0.0057	0.00945	0.100	pCi/g					
Iron-59	U	-0.00282	+/-0.0165	0.0277	0.300	pCi/g					
Lead-210	U	0.247	+/0.634	0.590	4.00	pCi/g					
Lead-212	UUI	0.00	+/-0.00939	0.0162	0.100	pCi/g					
Lead-214	U	0.00159	+/-0.0181	0.0184	0.100	pCi/g					
Manganese-54	U	-0.000482	+/-0.00608	0.00993	0.100	pCi/g					
Mercury-203	Ü	0.00168	+/-0.00686	0.0114	0.100	pCi/g					
Neodymium-147	Ū	-0.0813	+/-0.180	0.298	1000	pCi/g					
Neptunium-239	Ü	0.00148	+/-0.0263	0.0425	2.00	pCi/g					
Niobium-94	Ü	0.00133	+/-0.00552	0.00921	1.00	pCi/g					
Niobium-95	Ü	-0.00214	+/-0.00946	0.0154	0.050	pCi/g					
Potassium-40	Ŭ	0.0834	+/-0.159	0.111	1.00	pCi/g					
Promethium-144	Ü	-0.000817	+/-0.00593	0.00975	0.080	pCi/g					
1 Tomeunum 177			4.0.00620	0.0105	1.00	-C:1~					

0.0105

0.0438

1.00

0.500

pCi/g

pCi/g

+/-0.00638

+/-0.0502

0.00395

0.033

U

U

GENERAL ENGINEERING LABORATORIES, LLC 2040 Savage Road Charleston SC 29407 – (843) 556–8171 – www.gel.com

Report Date: May 25, 2005

Certificate of Analysis

Company: WPI

11 S. 12th Street Address:

Suite 210

Richmond, Virginia 23219

Contact:

Mr. John Bowen

Project:

Radiochemistry Analytical

	Client Sampl Sample ID:	e ID:	Steel Disk #5 135938017	5		Proje Clie	ect: nt ID:	WPIA00105 WPIA001			-
Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Rad Gamma Spec Ar	nalysis										
Gammaspec, Gamma	a, Solid (Long List)										
Ruthenium-106	U	0.00139	+/-0.0518	0.0866	0.800	pCi/g					
Silver-110m	U	-0.00136	+/-0.00508	0.00838	0.080	pCi/g					
Sodium-22	U	0.00644	+/-0.00902	0.0103	0.080	pCi/g					
Thallium-208	UUI	0.00	+/-0.016	0.0117	0.080	pCi/g					
Thorium-230	UUI	0.00	+/-0.0129	0.022	1.00	pCi/g					
Thorium-234	UUI	0.00	+/-0.244	0.297	5.00	pCi/g					
Tin-113	U	-0.0026	+/-0.00705	0.0113	0.100	pCi/g					
Uranium-235	UUI	0.00	+/-0.032	0.0511	0.500	pCi/g					
Uranium-238	UUI	0.00	+/-0.244	0.297	1.00	pCi/g					
Yttrium-88	U	-0.00398	+/-0.00735	0.0121	0.100	pCi/g					
Zinc-65	U	-0.00397	+/-0.0141	0.0234	0.300	pCi/g					
Zirconium-95	U	-0.00297	+/-0.0122	0.0199	0.200	pCi/g					
The following Analy	tical Methods were	performed									
Method	Description				A	nalyst Comme	ents				

The following Analytic	cai Menious were per	i toi meu
Method	Description	Analyst Comments

EML HASL 300, 4.5.2.3

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Report Date: May 25, 2005

WPIA00105

WPIA001

Project:

Client ID:

Certificate of Analysis

WPI Company:

Niobium-95

Potassium-40

Radium-228

Promethium-144

Promethium-146

11 S. 12th Street Address:

Suite 210

Richmond, Virginia 23219

Mr. John Bowen Contact:

Project: Radiochemistry Analytical

Client Sample ID:

U

U

U

U

U

0.00463

0.00399

0.0303

-2.010E-06

0.0105

+/-0.00687

+/-0.00448

+/-0.00505

+/-0.0176

+/-0.105

Steel Disk #6

Sample ID: Matrix:

135938018 Misc Solid

Collect Date: Receive Date: 21-APR-05 11:48 05-MAY-05

Collector: Client RL Units DF AnalystDate Time Batch Method Qualifier Result Uncertainty DL **Parameter** Rad Gamma Spec Analysis Gammaspec, Gamma, Solid (Long List) 0.0325 0.800 pCi/g AKB 05/19/05 1703 423794 0.0303 +/-0.0176 Actinium-228 0.0136 +/-0.0195 0.0353 0.200 pCi/g U Americium-241 Antimony-124 U -0.00315+/-0.00565 0.00937 0.100 pCi/g 0.0186 0.200 pCi/g Antimony-125 U 0.00716 +/-0.0103 0.00745 +/-0.00486 0.100 pCi/g U -0.00118Barium-133 0.500 pCi/g U 0.0314 +/-0.0574 0.102 Barium-140 U 0.0042 +/-0.0396 0.0696 0.700 pCi/g Beryllium-7 0.500 pCi/g Bismuth-212 U 0.0211 +/-0.0351 0.062 0.200 UUI +/-0.020 0.0151 pCi/g 0.00 Bismuth-214 +/-0.0029 0.00481 0.050 pCi/g -0.00157Cerium-139 U 0.100 pCi/g Cerium-141 U 0.00194 +/-0.0125 0.0122 +/-0.0182 0.031 0.500 pCi/g -0.00227Cerium-144 U pCi/g 0.000293 +/-0.00475 0.00814 0.100 U Cesium-134 +/-0.0248 0.0419 0.300 pCi/g Cesium-136 U -0.01590.100 pCi/g U 0.00315 +/-0.00463 0.00711 Cesium-137 0.600 pCi/g U -0.00631 +/-0.0549 0.0899 Chromium-51 pCi/g U 0.00501 +/-0.00529 0.00959 0.100 Cobalt-56 U 0.00165 +/-0.0023 0.00407 0.050 pCi/g Cobalt-57 pCi/g Cobalt-58 U -0.0026+/-0.0053 0.00867 0.100 pCi/g 0.0105 0.100 +/-0.00547 U 0.00638 Cobalt-60 U 0.00178 +/-0.0101 0.0179 0.200 pCi/g Europium-152 0.500 U 0.00978 +/-0.0107 0.0213 pCi/g Europium-154 0.500 pCi/g +/-0.00919 0.0156 Europium-155 U -0.005280.100 U 0.0022 +/-0.00413 0.00699 pCi/g Iridium-192 +/-0.0128 0.018 0.300 pCi/g Iron-59 U -0.009364.00 pCi/g U 0.112 +/-1.371.27 Lead-210 +/-0.0108 0.00939 0.100 pCi/g Lead-212 U 0.00717 0.100 pCi/g U 0.00742 +/-0.0185 0.0122 Lead-214 0.00231 +/-0.00439 0.00775 0.100 pCi/g U Manganese-54 0.008260.100 pCi/g Mercury-203 U -0.000779+/-0.00502 1000 pCi/g 0.231 U -0.0415+/-0.135 Neodymium-147 0.030 2.00 pCi/g U 0.00758 +/-0.0171 Neptunium-239 Niobium-94 U -0.00136+/-0.00416 0.00694 1.00 pCi/g

0.0123

0.0647

0.00764

0.00842

0.0325

0.050

1.00

0.080

1.00

0.500

pCi/g

pCi/g

pCi/g

pCi/g

pCi/g

GENERAL ENGINEERING LABORATORIES, LLC 2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company: WPI

11 S. 12th Street Address:

Suite 210

Richmond, Virginia 23219

Mr. John Bowen Contact:

Project: Radiochemistry Analytical Report Date: May 25, 2005

	Client Samp Sample ID:	ole ID:	Steel Disk #6 135938018	5		Projec Clien		WPIA00105 WPIA001			
Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Rad Gamma Spec Anal	ysis										
Gammaspec, Gamma,	Solid (Long List))									
Ruthenium-106	U	0.0257	+/-0.0565	0.0638	0.800	pCi/g					
Silver-110m	U	0.00138	+/-0.0039	0.00687	0.080	pCi/g					
Sodium-22	U	0.00349	+/-0.00386	0.00766	0.080	pCi/g					
Thallium-208	U	0.00215	+/-0.00967	0.00869	0.080	pCi/g					
Thorium-230	UUI	0.00	+/-0.020	0.0151	1.00	pCi/g					
Thorium-234	U	0.159	+/-0.286	0.260	5.00	pCi/g					
Tin-113	U	0.000649	+/-0.00499	0.00882	0.100	pCi/g					
Uranium-235	U	0.00547	+/-0.0332	0.0341	0.500	pCi/g					
Uranium-238	U	0.159	+/-0.286	0.260	1.00	pCi/g					
Yttrium-88	U	0.00183	+/-0.00619	0.0104	0.100	pCi/g					
Zinc-65	U	-0.000652	+/-0.00973	0.0172	0.300	pCi/g					
Zirconium-95	U	-0.000399	+/-0.00966	0.0164	0.200	pCi/g					
The following Analytic	al Methods wer	e performed		•		***************************************					
Method	Description				A	nalyst Commer	ıts				

EML HASL 300, 4.5.2.3

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Certificate of Analysis

Company: WPI

11 S. 12th Street Address:

Suite 210

Richmond, Virginia 23219

Contact: Mr. John Bowen

Project: Radiochemistry Analytical

Client Sample ID:

Sample ID:

Matrix: Collect Date: Water Sample #1 135938019 Waste Water

20-APR-05 14:06 Receive Date: 05-MAY-05

Collector:

WPIA00105 Project:

Report Date: May 25, 2005

Client ID: WPIA001

	Collector:		Client				
Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF AnalystDate Time Batch Me
Rad Gamma Spec Ana	llysis						
Gammaspec, Gamma,	Liquid (Long List)						
Actinium-228	U	103	+/-182	238	20.0	pCi/L	AKB 05/20/05 0734 424558 1
Americium-241	U	56.4	+/-101	185	25.0	pCi/L	
Antimony-124	U	-51	+/-90.1	153	5.00	pCi/L	
Antimony-125	U	41.8	+/-92.9	163	10.0	pCi/L	
Barium-133	U	25.3	+/-44.6	71.0	5.00	pCi/L	
Barium-140	U	272	+/-533	969	30.0	pCi/L	
Beryllium-7	U	-128	+/-374	619	50.0	pCi/L	
Bismuth-212	U	173	+/-273	499	50.0	pCi/L	
Bismuth-214	U	60.6	+/-306	115	10.0	pCi/L	
Cerium-139	U	5.88	+/-31.8	53.9	5.00	pCi/L	
Cerium-141	U	1.17	+/-137	140	10.0	pCi/L	
Cerium-144	U	-72.1	+/-203	339	50.0	pCi/L	
Cesium-134	U	5.90	+/-35.4	62.8	5.00	pCi/L	
Cesium-136	U	97.5	+/-196	367	15.0	pCi/L	
Cesium-137	UUI	0.00	+/-53.2	54.5	5.00	pCi/L	
Chromium-51	U	735	+/-869	920	50.0	pCi/L	
Cobalt-56	U	8.08	+/-43.8	76.8	5.00	pCi/L	
Cobalt-57	U	-22	+/-25.7	42.0	5.00	pCi/L	
Cobalt-58	U	21.2	+/-41.0	74.6	10.0	pCi/L	
Cobalt-60	U	50.1	+/-37.2	74.5	5.00	pCi/L	
Europium-152	U	-81.4	+/-88.8	145	20.0	pCi/L	
Europium-154	U	17.5	+/-74.6	141	20.0	pCi/L	
Europium-155	U	31.8	+/-97.0	170	20.0	pCi/L	
Iridium-192	U	-5.69	+/-45.0	67.9	10.0	pCi/L	
Iron-59	U	64.7	+/-92.6	177	10.0	pCi/L	
Lead-210	U	3030	+/-4150	3510	750	pCi/L	
Lead-212	U	44.5	+/-101	118	15.0	pCi/L	
Lead-214	U	33.9	+/-91.9	127	10.0	pCi/L	
Manganese-54	U	-0.555	+/-33.5	58.0	5.00	pCi/L	
Mercury-203	U	9.27	+/-49.2	86.8	5.00	pCi/L	
Neodymium-147	U	-5.38	+/-1270	2270	100	pCi/L	
Neptunium-239	U	-138	+/-182	300	25.0	pCi/L	
Niobium-94	U	30.7	+/-30.4	57.0	5.00	pCi/L	
Niobium-95	U	55.9	+/-116	89.8	5.00	pCi/L	
Potassium-40	UUI	0.00	+/-779	547	100	pCi/L	
Promethium-144	U	-6.78	+/-34.2	58.8	5.00	pCi/L	
Promethium-146	Ū	-38.4	+/-41.1	64.9	5.00	pCi/L	
	U	JU.T					

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Report Date: May 25, 2005

Certificate of Analysis

Company: WPI

Address: 11 S. 12th Street

Suite 210

Richmond, Virginia 23219

2.98

74.4

-21.2

U

U

U

+/-39.3

+/-80.3

+/-63.2

Contact: Mr. John Bowen

Project: Radiochemistry Analytical

WPIA00105 Water Sample #1 Project: Client Sample ID: Client ID: WPIA001 135938019 Sample ID: Result Uncertainty **Parameter** Qualifier DL RLUnits DF AnalystDate Time Batch Method Rad Gamma Spec Analysis Gammaspec, Gamma, Liquid (Long List) +/-294 521 50.0 pCi/L Ruthenium-106 6.09 Silver-110m U -20.7+/-35.4 50.5 5.00 pCi/L U 0.0791 +/-27.8 50.7 5.00 pCi/L Sodium-22 Thallium-208 U 13.5 +/-58.8 70.0 10.0 pCi/L Thorium-230 +/-306 20.0 pCi/L U 60.6 115 Thorium-234 UUI +/-1250 2120 250 pCi/L 0.00 Tin-113 +/-45.4 73.9 10.0 pCi/L U -34.4Uranium-235 U 2.86 +/-335 349 50.0 pCi/L UUI 0.00 +/-1250 2120 250 pCi/L Uranium-238

The following Analytical Methods were performed

Method Description Analyst Comments

70.3

119

134

10.0

10.0

10.0

pCi/L

pCi/L

pCi/L

1 EPA 901.1

Yttrium-88

Zirconium-95

Zinc-65