APPENDIX C
RADIOLOGICAL DATA SHEETS

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

N. S. SAVANNAH
SURVEY LOG

Survey No.	Date	Location	
NSS-0001	3/28/05	PORT SIDE "A" DECK STATEROOMS & OTHER ROOMS	
NSS-0002	3/28/05	PORT SIDE "A" DECK STATEROOMS & OTHER ROOMS	
NSS-0003	3/28/05	STARBOARD STATEROOMS "A" DECK	
NSS-0004	3/28/05	STARBOARD STATEROOMS "A" DECK	
NSS-0005	3/28/05	"A" DECK STARBOARD BARBER SHOP	
NSS-0006	3/28/05	STARBOARD SIDE "B" DECK CREW STATEROOMS	
NSS-0007	3/28/05	STARBOARD SIDE "B" DECK CREW & OFFICER STATEROOMS	
NSS-0008	3/28/05	"B" DECK PORT SIDE UNIVERSITY OF SOUTH CAROLINA OFFICERS	
NSS-0009	3/28/05	"B" DECK PORT SIDE CREW PANTRY	
NSS-0010	3/29/05	STATEROOM 34 PORT SIDE "A" DECK	
NSS-0011	3/29/05	"B" DECK PORT CREW. MESS ROOM & CREW. LOUNGE	
NSS-0012	3/29/05	"B" DECK PORT SIDE OFFICERS MESS	
NSS-0013	3/29/05	"B" DECK PORT SIDE STATEROOMS, OFFICE, CLEANING GEAR LOCKER	
NSS-0014	3/29/05	"B" DECK CENTER LINE ROOMS FAN ROOM CONFERENCE ROOM	
NSS-0015	3/29/05	"B" DECK CTR. LINE MAIN GALLEY	
NSS-0016	3/29/05	"B" DECK CTR LINE DINING ROOM	
NSS-0017	3/29/05	"B" DECK INBOARD PORT SIDE STEWARD LAUNDRY	
NSS-0018	3/29/05	"B" DECK CREW BARBER SHOP	
NSS-0019	3/29/05	PROMENADE DECK VERANDA & MAIN LOUNGE	
NSS-0020	3/29/05	BOAT DECK OFFICERS QTRS	
NSS-0021	3/29/05	BOAT DECK OFFICERS QTRS	
NSS-0022	3/29/05	NAVIGATION BRIDGE DECK & PILOT HOUSE	

N. S. SAVANNAH
SURVEY LOG

Survey No.	Date	Location	
NSS-0023	3/30/05	"C" Deck Crew Cabins	
NSS-0024	3/30/05	"C" Deck Machinery Loading Passage	
NSS-0025	3/30/05	"C" Deck CO^2 Room	
NSS-0026	3/30/05	"C" Deck ~~Starboard~~ Port Aft Side Rooms	
NSS-0027	3/30/05	"C" Deck ~~Port~~ Port Aft Starboard Rooms	
NSS-0028	3/30/05	Engine Room Upper Landing To Machinery Passageway	
NSS-0029	3/30/05	Engine Room Upper Level	
NSS-0030	3/30/05	"C" Deck Lockers For Breathing Gear	
NSS-0031	3/30/05	"A" Deck Bottom Drain of Exhaust Vent To Top of Mist In Front of #4 Hold Cover	
NSS-0032	3/31/05	"C" Deck Laundry & Linen Rms	
NSS-0033	3/31/05	"C" Port & Starboard Passageways	
NSS-0034	3/31/05	"C" Hallway and Laundry Entrance	
NSS-0035	3/31/05	Source Receipt	
NSS-0036	3/31/05	Navigation Deck - Emerg. Gen. Rm	
NSS-0037	3/31/05	"B" Deck Hydraulic Equipment Platform	
NSS-0038	3/31/05	"B" Deck Crew Laundry, Lighting Load Ctr. Cleaning Gear Lockers	
NSS-0039	3/31/05	Boat Deck → Promenade Deck → "A" Deck → "B" Deck → "C" Deck Machinery Casing Space	
NSS-0040	3/31/05	Navigation Deck - Boron Dump Control Rm	
NSS-0041	3/31/05	Engineering Work Station Hold #5	
NSS-0042	3/31/05	Main Engine Rm Lower Level Port Side of Shaft	
NSS-0043	3/31/05	Main Engine Rm Lower Level Starboard Side of Shaft	
NSS-0044	3/31/05	Main Shaft Alley	

N. S. SAVANNAH
SURVEY LOG

Survey No.	Date	Location	
NSS-0045	4/1/05	CONTROL ROOM FOR REACTOR	
NSS-0046	4/1/05	14' FLAT DECK STARBOARD SIDE	
NSS-0047	4/1/05	14' FLAT DECK PORT SIDE	
NSS-0048	4/1/05	"D" DECK FOOD STORES STARBOARD SIDE	
NSS-0049	4/1/05	"D" DECK SPECIAL STORES PORT SIDE	
NSS-0050	4/1/05	"A" DECK AFT HOUSE	
NSS-0051	4/1/05	"B" DECK STEAM COMPARTMENTS	
NSS-0052	4/1/05	"C" DECK EMERG. H.P. LAB	
NSS-0053	4/1/05	"C" DECK (AFT OF H.P. LAB) COMPARTMENTS	
NSS-0054	4/1/05	CARGO HOLD #4 B, C, D, HOLD DECKS	
NSS-0055	4/4/05	"A" DECK PORT SIDE FAN ROOM AND PLENUM	
NSS-0056	4/4/05	"B" DECK STATEROOM B-1, RAD WASTE STORAGE	
NSS-0057	4/4/05	14' FLAT FWD STABILIZER RM STARBOARD	
NSS-0058	4/4/05	FWD STABILIZER RM STARBOARD LOWER LEVEL AND CROSSOVER TO PORT	
NSS-0059	4/4/05	FWD STABILIZER RM PORT UPPER LEVEL	
NSS-0060	4/4/05	FWD STABILIZER RM PORT LOWER LEVEL	
NSS-0061	4/4/05	FWD WEATHER DECK HOUSES BETWEEN HATCHES 1&4	
NSS-0062	4/5/05	"B" DECK FAN ROOM	
NSS-0063	4/5/05	HOLD #4 "D" DECK STARBOARD	
NSS-0064	4/5/05	"C" DECK COLD WATER CHEM LABS UPPER LEVEL	
NSS-0065	4/5/05	HOLD DECK PORT & STARBOARD	
NSS-0066	4/5/05	HALLWAY (CROSSOVER) ON HOLD DECK	

N. S. SAVANNAH
SURVEY LOG

Survey No.	Date	Location	
NSS-0067	4/6/05	SECONDARY CONTAINMENT "B" DECK AFT OF REACTOR	
NSS-0068	4/6/05	"A" DECK HP LAB AT HOSPITAL	
NSS-0069	4/7/05	PRIMARY CONTAINMENT INSIDE HATCH CONTROLS AND PLUG	
NSS-0070	4/7/05	"D" DECK (COLD CHEM LAB)(FROM "C" DECK) RAD SAMPLING ROOM GAS ABSORBTION, EQUIP ROOM, WASTE STORAGE	
NSS-0071	4/8/05	"C" DECK SECONDARY CONTAINMENT FWD	
NSS-0072	4/8/05	"B" DECK SECONDARY CONTAINMENT	
NSS-0073	4/8/05	"A" DECK SECONDARY CONTAINMENT	
NSS-0074	4/8/05	PRIMARY CONTAINMENT AIR LOCK	
NSS-0075	4/8/05	SECONDARY CONTAINMENT "D" DECK AFT MEZANINE AND LOWER AREAS	
NSS-0076	4/8/05	SECONDARY CONTAINMENT LOWER LEVEL (HOLD DECK)	
NSS-0077	4/11/05	PRIMARY CONTAINMENT HATCH (LOWER)	
NSS-0078	4/11/05	PRIMARY CONTAINMENT ("C" DECK) 1ST LEVEL PRELIMINARY SMEARS	
NSS-0079	4/14/05	PRIMARY CONTAINMENT ("C" DECK) 1ST LEVEL FWD	
NSS-0080	4/11/05	STEAM CONDENSOR HATCH (ENGINE ROOM)	
NSS-0081	4/11/05	"D" DECK HOT CHEM. LAB AT CONTROL ROOM	
NSS-0082	4/12/05	PRIMARY CONTAINMENT 4TH LEVEL (HOLD DECK)	
NSS-0083	4/12/05	PRIMARY CONTAINMENT 1ST LEVEL ("C" DECK)	
NSS-0084	4/12/05	PRIMARY CONTAINMENT 2ND LEVEL ("D" DECK)	
NSS-0085	4/12/05	PRIMARY CONTAINMENT 3RD LEVEL (14' FLAT)	
NSS-0086	4/12/05	CHARGE PUMP ROOMS (PORT & STBD)	
NSS-0087	4/13/05	PRIMARY CONTAINMENT 1ST LEVEL ("C" DECK)	
NSS-0088	4/14/05	SECONDARY CONTAINMENT LOWER LEVEL CORE BORE LOCATIONS	

N. S. SAVANNAH
SURVEY LOG

Survey No.	Date	Location	
NSS-0089	4/14/05	"U" SHAPED STEAM GENERATORS IN PRIMARY CONT.	
NSS-0090	4/19/05	TOP OF CUPOLA STBD NITROGEN VALVE FLANGE	
NSS-0091	4/~~20~~ 19 RGH/05	PRIMARY WATER SHIELD TANK	
NSS-0092	4/~~20~~ 19 RGH/05	LEAD SAMPLE LOCATION - OUTER REACTOR WALL	
NSS-0093	4/21/05	PRIMARY CONTAINMENT - STBD STEAM GEN WORK AREA	
NSS-0094	4/21/05	PRIMARY CONTAINMENT FWD OF REACTOR 1ST & 2ND LEVEL	
NSS-0095	4/21/05	PRIMARY CONTAINMENT PORT U TUBE STEAM GEN ACCESS COVER	
NSS-0096	4/20/05	PRIMARY CONTAINMENT STBD U TUBE STEAM GEN. INSIDE PRIMARY SIDE	
NSS-0097	4/21/05	PRIMARY CONTAINMENT PORT U TUBE STEAM GEN. INSIDE PRIMARY SIDE	
NSS-0098	4/22/05	PRIMARY CONTAINMENT PORT U TUBE STEAM GEN. POST JOB SURVEY	
NSS-0099	4/25/05	SURVEY OF METERS USED ON JOB	
NSS-0100	4/25/05	PORT STEAM DRUM SECONDARY	
NSS-0101	4/26/05	PIPE FROM NITROGEN LINE IN PRIMARY CONT.	
NSS-0102			
NSS-0103			
NSS-0104			
NSS-0105			
NSS-0106			
NSS-0107			
NSS-0108			
NSS-0109			
NSS-0110			

N. S. SAVANNAH
SURVEY LOG

Survey No.	Date	AIR SAMPLES Location	
NSS-0111	4/5/05	COLD CHEM LAB "C" DECK	
NSS-0112	4/6/05	ACCESS TO SECONDARY CONTAINMENT	
NSS-0113	4/7/05	CHARGE PUMP RM STBD.	
NSS-0114	4/8/05	AIR LOCK FOR PRIMARY CONTAINMENT	
NSS-0115	4/8/05	PRIMARY CONTAINMENT 1ST LEVEL	
NSS-0116	4/8/05	CHARGE PUMP RM STBD RECHECK	
NSS-0117	4/11/05	"C" DECK COLD CHEM LAB RECHECK	
NSS-0118	4/11/05	PRIMARY CONTAINMENT 2nd LEVEL	
NSS-0119	4/11/05	SECONDARY CONTAINMENT LOWER LEVEL	
NSS-0120	4/12/05	PRIMARY CONTAINMENT 4TH LEVEL	
NSS-0121	4/22/05	PRIMARY CONTAINMENT U TUBE STEAM GEN. ACCESS COVER OPENING.	
NSS-0122			
NSS-0123			
NSS-0124			
NSS-0125			
NSS-0126			
NSS-0127			
NSS-0128			
NSS-0129			
NSS-0130			
NSS-0131			
NSS-0132			

N.S. SAVANNAH
RADIOLOGICAL SURVEY

NSS-01 SURVEY NO. NSS-0001

Date 3/28/05 Time 9:00 AM	DOSE RATE	CONTAMINATION	
Surveyor CRADDOCK	Inst. Type LUDLUM	Beta ✓ Alpha ____	Beta ____ Alpha ____
Signature [signature]	Serial No. 95499	Inst.Sn 97416	
Reviewed [signature]	β⁻ Factor —	Eff. 10%	
	BKG 4 μR/hr	Bkg. 30 cpm	cpm

AREA PORT SIDE A DECK

COMPONENT

ROOM THRESHOLD - 1
DOOR KNOB - 2
BATH FLOOR - 3
AIR VENT-OVHD - 4
BATH DOOR KNOB - 5

TOILET PORCELAIN & GLACE READS 7-8 μR/hr DUE TO URANIUM or THORIUM

LESS THAN BKGD

PASS. LAUNDRY <BKGD <100 CPM

STRM #2 TC ~~LADIES LOUNGE~~ <BKGD <100 CPM

LADIES LOUNGE #6 <BKG <100 CPM

STRM 12-15 MRM RESTRM >BKGD >100 CPM TOILET * STRM 12 (Chain locked)

>100 CPM IN TOILET 12-15 MRM RESTROOM * STRM 14 (CHAIN LOCKED)

SMEAR RESULTS ~~IN DPM/100 CM²~~ ~~B = BETA in mRAD/hr/100 CM²~~

NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS
1	< BKG	1	< BKG	1	< BKG	1	< BKG	1	< BKG
2	< BKG	2	< BKG	2	< BKG	2	< BKG	2	< BKG
3	< BKG	3	< BKG	3	< BKG	3	< BKG	3	< BKG
4	< BKG	4	< BKG	4	< BKG	4	< BKG	4	< BKG
5	< BKG	5	< BKG	5	< BKG	5	< BKG	5	< BKG

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

RCA – RADIATION CONTROL AREA AA – AIRBORNE AREA

N.S. SAVANNAH
RADIOLOGICAL SURVEY

NSS-01

SURVEY NO. NSS-0002

Date 3/28/05 Time 10:15 AM	DOSE RATE	CONTAMINATION	
Surveyor CRADDOCK	Inst. Type LUDLUM	Beta ✓ Alpha ____	Beta ____ Alpha ____
Signature [signature]	Serial No. 95499	Inst.Sn 97416	
Reviewed [signature]	β⁻ Factor	Eff. 10%	
	BKG 4 uR/h	Bkg. 30 cpm	cpm

AREA PORT SIDE A DECK

COMPONENT

ROOM THRESHOLD - 1
DOOR KNOB - 2
BATH FLOOR - 3
AIR VENT (OVHD) - 4
BATH DOOR KNOB - 5

TOILET GLAZE or PORCALIN
READS 7-8 μR/h
DUE TO URANIUM or THORIUM

RESTRM >BKGD
NEAR TOILET

REST ROOM AROUS >BKGD >100 CPM

RESTRM TOILET >100 CPM
7 TO 8 μR/HR
FLOOR < 100 CPM

<BKGD
STRM #20

< 100 CPM

<BKGD
STRM 26

<BKGD
STRM 32

SMEAR RESULTS ~~IN DPM/100 CM²~~ ~~B = BETA in mRAD/hr/100 CM²~~

NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS
1	<BKG	1	<BKG	1	<BKG				
2	<BKG	2	<BKG	2	<BKG				
3	<BKG	3	<BKG	3	<BKG				
4	<BKG	4	<BKG	4	<BKG				
5	<BKG	5	<BKG	5	<BKG				

RA – RADIATION AREA
CA – CONTAMINATION AREA
ALL DOSE RATES IN μrem/hr
RCA – RADIATION CONTROL AREA
AA – AIRBORNE AREA

N.S. SAVANNAH
RADIOLOGICAL SURVEY

NSS-01 SURVEY NO. NSS-0003

Date 3-28-05 Time 8100	DOSE RATE	CONTAMINATION	
Surveyor Loman Scott	Inst. Type LUD MDI 19	Beta ✓ Alpha____	Beta____Alpha____
Signature Loman Scott	Serial No. 42972	Inst.Sn 75809	
Reviewed [signature]	β⁻Factor /	Eff. 10 %	
	Background 4 μR/hr	Bkg. 40 cpm	cpm

AREA ~~Portside~~ State Rooms
Starboard + offices A Deck

COMPONENT

Room Thres[illegible] - 1
Door [illegible] - 2"
B[illegible] - 3
[illegible] - [illegible] AD - 4
Bath Door [illegible] - 5

STR 3
FRSK <100 cpm
DR < Background

STR 9
FRSK < 100 cpm
DR < BKG

STR 15
FRSK <100 cpm
DR < BKG

CHIEF STEWARD OFFICE
~~PURSER~~ Room
STR
FRSK <100 cpm
DR < BKG

STR 21
FRSK < 100 cpm
DR < BKG

SMEAR RESULTS ~~IN DPM/100 CM²~~ ~~B = BETA in mRAD/hr/100 CM²~~

NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS
1	< BKGD	1	< BKGD	1	< BKGD	1	< BKGD	1	< BKGD
2	< BKGD	2	< BKGD	2	< BKGD	2	< BKGD	2	< BKGD
3	< BKGD	3	< BKGD	3	< BKGD	3	< BKGD	3	< BKGD
4	< BKGD	4	< BKGD	4	< BKGD	4	< BKGD	4	< BKGD
5	< BKGD	5	< BKGD	5	< BKGD	5	< BKGD	5	< BKGD

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

RCA – RADIATION CONTROL AREA AA – AIRBORNE AREA

N.S. SAVANNAH
RADIOLOGICAL SURVEY

NSS-01 SURVEY NO. NSS-0004

Date 3/28/05 Time	DOSE RATE	CONTAMINATION	
Surveyor LOMAN SCOTT	Inst. Type LUDLUM 19	Beta V Alpha	Beta Alpha
Signature Loman Scott	Serial No. 42972	Inst.Sn 75809	
Reviewed Robert Pinnal	β⁻ Factor 1	Eff. 10 %	
	Background 4 ~~MR/HR~~	Bkg. 40 cpm	cpm

AREA STAR BOARD STATE ROOMS + OFFICE A DECK

COMPONENT

STARBOARD
STAR - CLEANING ROOM
1. THRESHOLD
2. FLOOR
3. SINK
4 DOOR KNOB

1 ROOM THRESHOLD
2 DOOR KNOB
3. BATH FLOOR
4 AIR VENT OVERHEAD
5. BATH DOOR KNOB

STARBOARD
STAR LINEN LOCKER
1 DOOR KNOB
2 THRESHOLD
3. FLOOR
4 OPEN HATCH
5 VALVE HANDLES

STR 27
FRSK <100
DR < BKG

(CREW) NURSE
STR 33
FRSK <100
DR < BKG

CLEANING ROOM
FRSK 400
DR < BKG

SMEAR RESULTS ~~N DPM/100 CM²~~ ~~B = BETA/γ mRAD/HR/100 CM²~~

NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS
1	< BKGD	1	< BKGD	1	< BKGD	1	< BKGD		
2	< BKGD	2	< BKGD	2	< BKGD	2	< BKGD		
3	< BKGD	3	< BKGD	3	< BKGD	3	< BKGD		
4	< BKGD	4	< BKGD	4	< BKGD	4	< BKGD		
5	< BKGD	5	< BKGD	[redacted]		5	< BKGD		

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

RCA – RADIATION CONTROL AREA AA – AIRBORNE AREA

N.S. SAVANNAH
RADIOLOGICAL SURVEY

NSS-01 SURVEY NO. NSS-0005

Date 3/28/05 Time 1210	DOSE RATE	CONTAMINATION	
Surveyor Loman Scott	Inst. Type Ludlum 19	Beta ✓ Alpha____	Beta____Alpha____
Signature Loman Scott	Serial No. 42972	Inst.Sn 75809	
Reviewed [signature]	β⁻ Factor /	Eff. 10%	
	BKG 4.0 μR/hr	Bkg. 40 cpm	cpm

AREA B DECKS A. DECK BARBER Shop

COMPONENT

1 - Door Threshold
2 - Door Handle
3 - Inner Air vent
4 - outer Air vent
5 - Forward Sink
6 - Aft Sink
7 - Floor (Aft chair)

Barber Shop
FRSK < 100
DM < BKG

SMEAR RESULTS ~~IN DPM/100 CM²~~ ~~B = BETA in mRAD/hr/100 CM²~~

NO.	RESULTS	N O.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS
1	< BKGD								
2	< BKGD								
3	< BKGD								
4	< BKGD								
5	< BKGD								
6	< BKGD								
7	< BKGD								

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

RCA – RADIATION CONTROL AREA AA – AIRBORNE AREA

N.S. SAVANNAH PAGE

RADIOLOGICAL SURVEY

NSS-01 SURVEY NO. NSS-0006

Date 3/28/05 Time 1210	DOSE RATE	CONTAMINATION	
Surveyor LOMAN SCOTT	Inst. Type Ludlum 19	Beta ✓ Alpha ____	Beta ____ Alpha ____
Signature Loman Scott	Serial No. 42972	Inst.Sn 75809	
Reviewed Robert E. Gunnels	β⁻ Factor ✓	Eff. 10%	
	BKG 4.0 MR/hr	Bkg. 40 cpm	cpm

AREA B DECK CREW STATROOMS STARBOARD SIDE

COMPONENT

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

Crew

B-5
FRSK < 100
DM < BKG

Crew

B-11
FRSK < 100
DM < BKG

Crew

B-17
FRSK < 100
DM < BKG

Crew

B-23
FRSK < 100
DM < BKG

Crew

B-29
FRSK < 100
DM < BKG

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	1	< BKGD	1	< BKGD	1	< BKGD	1	< BKGD
2	< BKGD	2	< BKGD	2	< BKGD	2	< BKGD	2	< BKGD
3	< BKGD	3	< BKGD	3	< BKGD	3	< BKGD	3	< BKGD
4	< BKGD	4	< BKGD	4	< BKGD	4	< BKGD	4	< BKGD
5	< BKGD	5	< BKGD	5	< BKGD	5	< BKGD	5	< BKGD
6	< BKGD	6	< BKGD	6	< BKGD	6	< BKGD	6	< BKGD

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

RCA – RADIATION CONTROL AREA AA – AIRBORNE AREA

N.S. SAVANNAH
RADIOLOGICAL SURVEY

NSS-01

SURVEY NO. NSS-0007

Date 3/28/05 Time 1100	DOSE RATE	CONTAMINATION	
Surveyor LOGAN SCOTT	Inst. Type LUDM DICY	Beta ✓ Alpha	Beta Alpha
Signature Logan Scott	Serial No. 42972	Inst.Sn 75809	
Reviewed Kathy Lynch	β⁻ Factor	Eff. 10%	
	BKG 40 MR/hr	Bkg. 40 cpm	cpm

AREA B DECK CREW & OFFICER QUARTERS STARBOARD SIDE

COMPONENT

1 - THRESHOLD
2 - DOOR KNOBS
3 - BATH FLOOR
4 - BATH DOORKNOB
5 - AIR VENT
6 - FLOOR IN FRONT OF BATH

B-35	B-41	B-45	B-49	B-53
CREW	CREW	OFFICERS QUARTERS	OFFICERS QUARTERS	OFFICERS QUARTERS
FRSK < 100	FRSK < 100	FRSK < 100	FRSK < 100	FRSK < 100
DM < BKG	DM < BKG	DM < BKG	DM < BKG	DM < BKG

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	1	< BKGD	1	< BKGD	1	< BKGD	1	< BKGD
2	< BKGD	2	< BKGD	2	< BKGD	2	< BKGD	2	< BKGD
3	< BKGD	3	< BKGD	3	< BKGD	3	< BKGD	3	< BKGD
4	< BKGD	4	< BKGD	4	< BKGD	4	< BKGD	4	< BKGD
5	< BKGD	5	< BKGD	5	< BKGD	5	< BKGD	5	< BKGD
6	< BKGD	6	< BKGD	6	< BKGD	6	< BKGD	6	< BKGD

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

RCA – RADIATION CONTROL AREA AA – AIRBORNE AREA

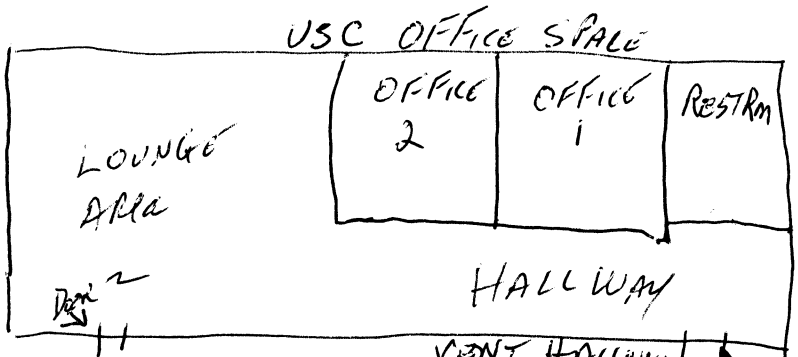
N.S. SAVANNAH
RADIOLOGICAL SURVEY

NSS-01 SURVEY NO. NSS-0008

Date 3/28/05 Time 1:00 PM	DOSE RATE	CONTAMINATION	
Surveyor Craddock	Inst. Type LUDLUM	Beta ✓ Alpha ____	Beta ____ Alpha ____
Signature [signature]	Serial No. 95499	Inst.Sn 97416	
Reviewed [signature]	β⁻ Factor 10%	Eff. 10%	
	BKG 4 uR/hr	Bkg. 30 cpm	cpm

AREA UNIVERSITY of SOUTH CAROLINA OFFICE SPACES
B DECK PORT

COMPONENT



1. ~~RESTRM~~ DOOR 1 THRESHOLD
2. DOOR KNOB #1
3. FLOOR of HALLWAY
4. DECK RESTRM
5. DOOR KNOB RM
6. VENT HALLWAY ~~DECK OFFICE~~ DOOR 1
7. DOOR KNOB OFFICE 1 N/A
8. DECK OFFICE 2 N/A
9. DOOR KNOB OFFICE 2 NA
10 THRESHOLD DOOR 2
11. DOOR KNOB # 2 Door
12. VENT IN LOUNGE
13. VENT OFFICE #2
14. VENT OFFICE #1
15. VENT RESTRM

USC OFFICE SPACES
DR < BKGD
FRISK < 100 CPM

SMEAR RESULTS ~~IN DPM/100 CM²~~ ~~B = BETA in mRAD/hr/100 CM²~~

NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS
1	<BKGD	6	<BKGD	11	<BKGD				
2	<BKGD	7	NA	12	<BKGD				
3	<BKGD	8	NA	13	<BKGD				
4	<BKGD	9	NA	14	<BKGD				
5	<BKGD	10	<BKGD	15	<BKGD				

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

RCA – RADIATION CONTROL AREA AA – AIRBORNE AREA

N.S. SAVANNAH
RADIOLOGICAL SURVEY

NSS-01 SURVEY NO. NSS-0009

Date 3/28/05 Time 1:30 PM	DOSE RATE	CONTAMINATION	
Surveyor CRADDOCK	Inst. Type LUDLUM	Beta ✓ Alpha	Beta ✓ Alpha
Signature [signature]	Serial No. 95499	Inst.Sn 97416	
Reviewed [signature]	β⁻ Factor 10%	Eff. 10%	
	BKG 4uR/hr	Bkg [redacted] cpm	30 cpm

AREA CREW PANTY B DECK PORT

COMPONENT

1- THRESHOLD
2- DOOR KNOB
3- DECK
4- VENTILATION
5 DK DRAIN

< BKGD
< 1000 CPM

SMEAR RESULTS ~~IN DPM/100 CM²~~ ~~B - BETA in mRAD/hr/100 CM²~~

NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS
1	< BKGD								
2	< BKGD								
3	< BKGD								
4	< BKGD								
5	< BKGD								

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

RCA – RADIATION CONTROL AREA AA – AIRBORNE AREA

N.S. SAVANNAH
RADIOLOGICAL SURVEY

NSS-01 SURVEY NO. NSS-RP0010

Date 3/29/05 Time 8:00 AM	DOSE RATE	CONTAMINATION	
Surveyor CRADDOCK	Inst. Type LUDLUM	Beta ✓ Alpha ____	Beta ____ Alpha ____
Signature [signature]	Serial No. 95499	Inst.Sn 97416	
Reviewed [signature]	β⁻ Factor ~~1.0~~ N/A	Eff. 10%	
	4 ~~M~~ R/HR BKGD	Bkg. 30 cpm	cpm

AREA STATE ROOM 34 PORT A DECK

COMPONENT

1 - THRESHOLD of DOORWAY
2 - DOORKNOB of SR DOOR
3 - VENTILATION DUCT
4. BATH ROOM DECK
5. BATH ROOM DOORKNOB

DOSE RATE - < BKGD
~~FIXED~~ COUNT RATE < 100 CPM (30-40 CPM)

SMEAR RESULTS ~~N DPM/100 CM²~~ ~~B = BETA in mRAD/hr/100 CM²~~

NO.	RESULTS	N O.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS
1	<BKG								
2	<BKG								
3	<BKG								
4	<BKG								
5	<BKG								

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

RCA – RADIATION CONTROL AREA AA – AIRBORNE AREA

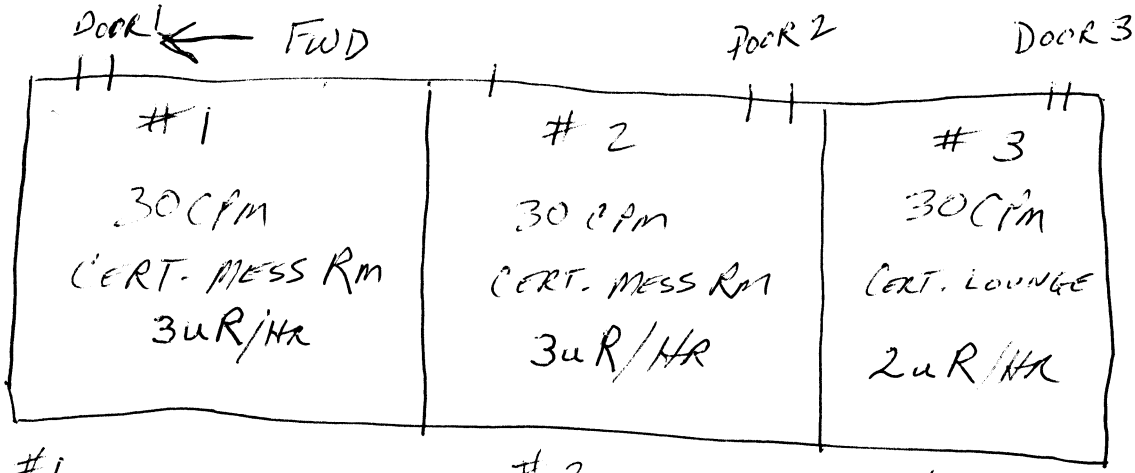
N.S. SAVANNAH
RADIOLOGICAL SURVEY

NSS-01 SURVEY NO. NSS-0011

Date 3/29/63 Time 5:30 AM	DOSE RATE	CONTAMINATION	
Surveyor CRADDOCK	Inst. Type LUDLUM	Beta ✓ Alpha ____	Beta ____ Alpha ____
Signature Craddock	Serial No. 93499	Inst.Sn [redacted]	
Reviewed [signature]	β⁻ Factor 80%	Eff. 10% 97416	
	Bkg 4 μR/hr	Bkg. 30 cpm	cpm

AREA "B" DECK CERT. MESS ROOM + CERT. LOUNGE

COMPONENT



#1
1. THRESHOLD
2. DOOR KNOB
3. VENTILATION
4. WATER FOUNTAIN

#2
1. THRESHOLD
2. DOOR KNOB
3. VENTILATION

#3
1. THRESHOLD
2. DOOR KNOB
3. VENTILATION
4 WATER FOUNTAIN

MESSRM BACKGOUND 3 uR/HR 30 CPM
MESSRM BACKGOUND 3 uR/HR 30 CPM
LOUNGE BACKGOUND 2uR/HR 30 CPM

#1 MESSRM.		#2 MESS RM		# 3 LOUNGE					
SMEAR RESULTS ~~IN DPM/100 CM²~~				~~B = BETA in mRAD/hr/100 CM²~~					
NO.	RESULTS	N O.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS
1	< BKGD	1	< BKGD	1	< BKGD				
2	< BKGD	2	< BKGD	2	< BKGD				
3	< BKGD	3	< BKGD	3	< BKGD				
4	< BKGD			4	< BKGD				

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

RCA – RADIATION CONTROL AREA AA – AIRBORNE AREA

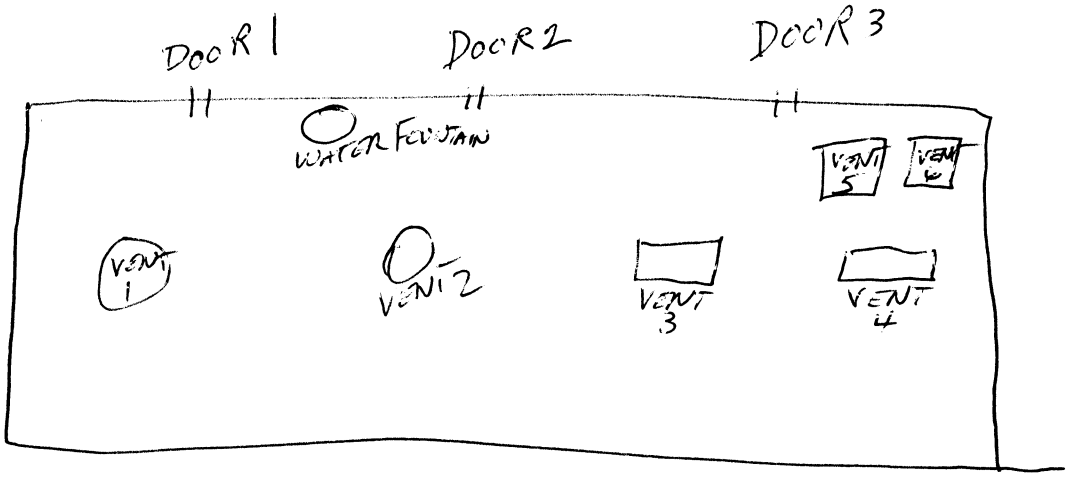
N.S. SAVANNAH
RADIOLOGICAL SURVEY

NSS-01 SURVEY NO. NSS-0012

Date 3/29/05 Time 9:00AM	DOSE RATE	CONTAMINATION	
Surveyor CRADDOCK	Inst. Type LUDLUM	Beta ✓ Alpha ____	Beta ____ Alpha ____
Signature Craddock	Serial No. 95499	Inst.Sn 97416	
Reviewed [signature]	β⁻ Factor 10%	Eff. 10%	
	BKG. 2uR/HR	Bkg. 30 cpm	cpm

AREA B DECK PORT OFFICERS MESS

COMPONENT



1 - THRESHOLD DOOR 1
2 - DOOR KNOB DOOR 1
3 - VENT 1
4 - WATER FOUNTAIN
5 - VENT 2
6. THRESHOLD DOOR 2
7 DOOR KNOB DOOR 2
8 - VENT 3
9 - VENT 4
10 - VENT-5
11. THRESHOLD DOOR 3
12. DOOR KNOB DOOR 3
13. VENT 6

DR < 2UR/HR BKGD
FRISK < 30 CPM

SMEAR RESULTS ~~IN DPM/100 CM²~~ ~~B = BETA in mRAD/hr/100 CM²~~

NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS
1	< BKGD	9	< BKGD						
2	< BKGD	10	< BKGD						
3	< BKGD	11	< BKGD						
4	< BKGD	12	< BKGD						
5	< BKGD	13	< BKGD						
6	< BKGD								
7	< BKGD								
8	< BKGD								

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

RCA – RADIATION CONTROL AREA AA – AIRBORNE AREA

N.S. SAVANNAH
RADIOLOGICAL SURVEY

NSS-01 SURVEY NO. NSS-0013

Date 3/29/05 Time 9:20	DOSE RATE	CONTAMINATION	
Surveyor CRADDOCK	Inst. Type LUDLUM	Beta ✓ Alpha ____	Beta ____ Alpha ____
Signature [signature]	Serial No. 95499	Inst.Sn 97416	
Reviewed [signature]	β⁻ Factor	Eff. 10%	
	@ 2uR/Hr	Bkg. 30 cpm	cpm

AREA B DECK PORT B-8 STATE ROOM, B14 STATE RM, B18 STATE RM CLEANING GEAR LOCKER, OFFICE

COMPONENT

1 THRESHOLD
2 DOOR KNOB
3 VENTILATION
4 DECK BATH RM
5 BATH RM DOOR KNOB

CLEANING GEAR LOCKER
1. ~~DO~~ THRESHOLD
2. DOOR KNOB
3. DECK
4. VENT

OFFICE
1. THRESHOLD
2. DOOR KNOB
3 VENT

FRISK 30 CPM DR < 3 uR/HR BKGD — STATE RM B8

FRISK < 30 CPM DR < 2 uR/HR — STATE RM B14

FRISK 30 CPM DR < 2 uR/HR — STATE ROOM B18

DR < 2 uR/HR FRISK < 30 CPM — CLEANING GR LOCKER

FRISK < 30 CPM — OFFICE NEXT TO CLEANING LOCK

SMEAR RESULTS ~~IN DPM/100 CM²~~ ~~B = BETA in mRAD/hr/100 CM²~~

NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS
1	< BKGD	1	< BKGD	1	< BKGD	1	< BKGD	1	< BKGD
2	< BKGD	2	< BKGD	2	< BKGD	2	< BKGD	2	< BKGD
3	< BKGD	3	< BKGD	3	< BKGD	3	< BKGD	3	< BKGD
4	< BKGD	4	< BKGD	4	< BKGD	4	< BKGD		
5	< BKGD	5	< BKGD	5	< BKGD	5	< BKGD		

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

RCA – RADIATION CONTROL AREA AA – AIRBORNE AREA

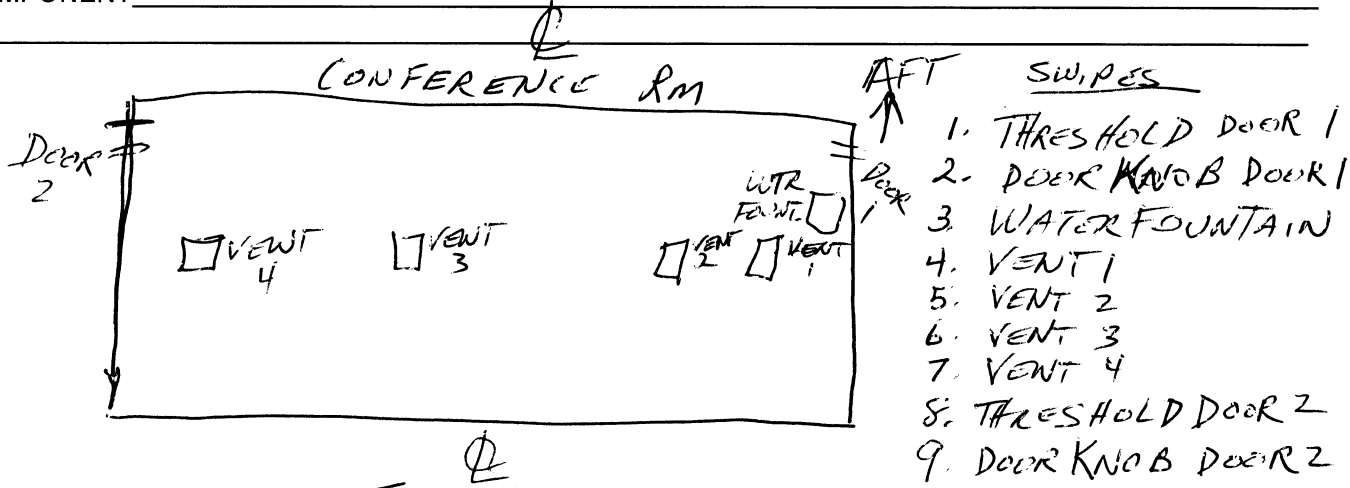
N.S. SAVANNAH
RADIOLOGICAL SURVEY

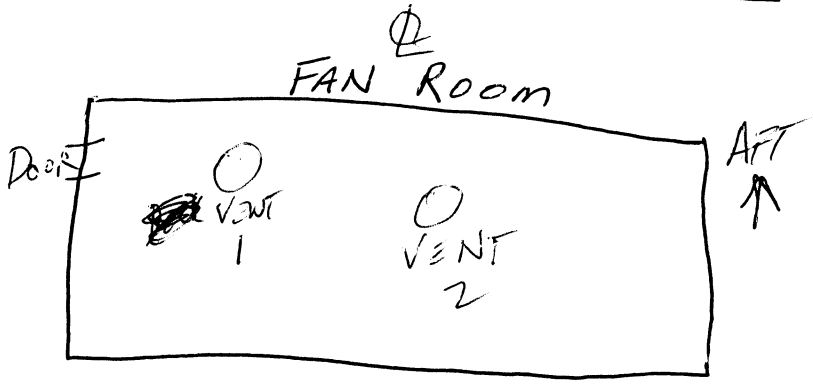
NSS-01 SURVEY NO. NSS-0014

Date 3-29-05 Time	DOSE RATE	CONTAMINATION	
Surveyor Caddock	Inst. Type LUDLUM	Beta ✓ Alpha ____	Beta ____ Alpha ____
Signature Caddock	Serial No. 95499	Inst.Sn 97416	
Reviewed Robert Zimmerman	β⁻ Factor 10%	Eff. 10%	
	2uR/Hr	Bkg. 30 cpm	cpm

AREA B DECK ~~[illegible]~~ CONFERENCE Rm FAN ROOM CENTER LINE RMS

COMPONENT





30 cpm
2 uR/HR

30 cpm
2 uR/HR

CONFERENCE RM. FAN RM

SMEAR RESULTS ~~• IN DPM/100 CM²~~ ~~• B = BETA in mRAD/hr/100 CM²~~

NO.	RESULTS	N O.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS
1	<BKGD	9	<BKGD	1	<BKGD				
2	<BKGD			2	<BKGD				
3	<BKGD			3	<BKGD				
4	<BKGD			4	<BKGD				
5	<BKGD			5	<BKGD				
6	<BKGD								
7	<BKGD								
8	<BKGD								

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

RCA – RADIATION CONTROL AREA AA – AIRBORNE AREA

N.S. SAVANNAH
RADIOLOGICAL SURVEY

NSS-01 SURVEY NO. NSS-0015

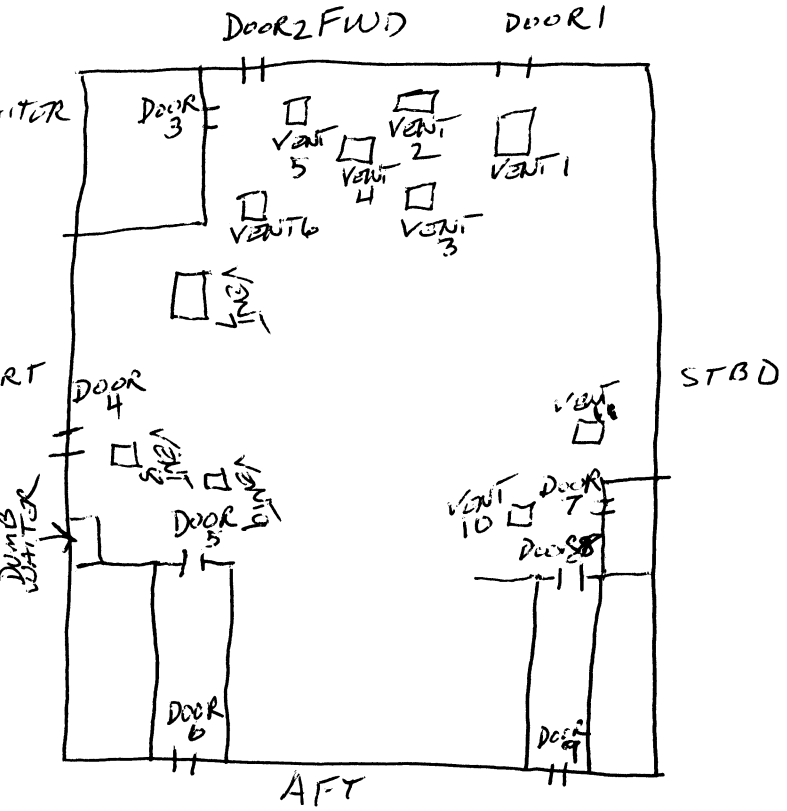
Date 3/29/05 Time [illegible]	DOSE RATE	CONTAMINATION	
Surveyor Craddock	Inst. Type LUDLUM	Beta ✓ Alpha ____	Beta ____ Alpha ____
Signature Craddock	Serial No. 95499	Inst.Sn 97416	
Reviewed [signature]	β⁻ Factor ~~4uR/HR~~ TC	Eff. 10%	
	4uR/H BKG	Bkg. 30 cpm	cpm

AREA B DECK CENTER LINE MAIN GALLEY

COMPONENT

SWIPES

1. DOOR 1 THESHOLD
2. " KNOB
3. DOOR 2 THRESHOLD
4. " KNOB
5. DOOR 3 THRESHOLD
6. " KNOB
7. DOOR 4 THRESHOLD
8. " KNOB
9. DOOR 5 THRESHOLD
10. " KNOB
11. DOOR 6 THRESHOLD
12. " KNOB
13. DOOR 7 THRESHOLD
14. " KNOB
15. DOOR 8 THRESHOLD
16. " KNOB
17. DOOR 9 THRESHOLD
18. " KNOB
19. DUMBWAITER
20. VENT 1
21. " 2
22. " 3
23. " 4
24. " 5
25. " 6 PORT
26. " 7
27. " 8
28. " 9
29. " 10
30. " 11



D.R. < BKGD
FRISK < 100 CPM FOR ENTIRE MN. GALLEY ~~[illegible]~~

SMEAR RESULTS ~~IN DPM/100 CM²~~ ~~B – BETA in mRAD/hr/100 CM²~~

NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS
1	< BKGD	9	< BKGD	17	< BKGD	25	< BKGD		
2	< BKGD	10	< BKGD	18	< BKGD	26	< BKGD		
3	< BKGD	11	< BKGD	19	< BKGD	27	< BKGD		
4	< BKGD	12	< BKGD	20	< BKGD	28	< BKGD		
5	< BKGD	13	< BKGD	21	< BKGD	29	< BKGD		
6	< BKGD	14	< BKGD	22	< BKGD	30	< BKGD		
7	< BKGD	15	< BKGD	23	< BKGD				
8	< BKGD	16	< BKGD	24	< BKGD				

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

RCA – RADIATION CONTROL AREA AA – AIRBORNE AREA

N.S. SAVANNAH
RADIOLOGICAL SURVEY

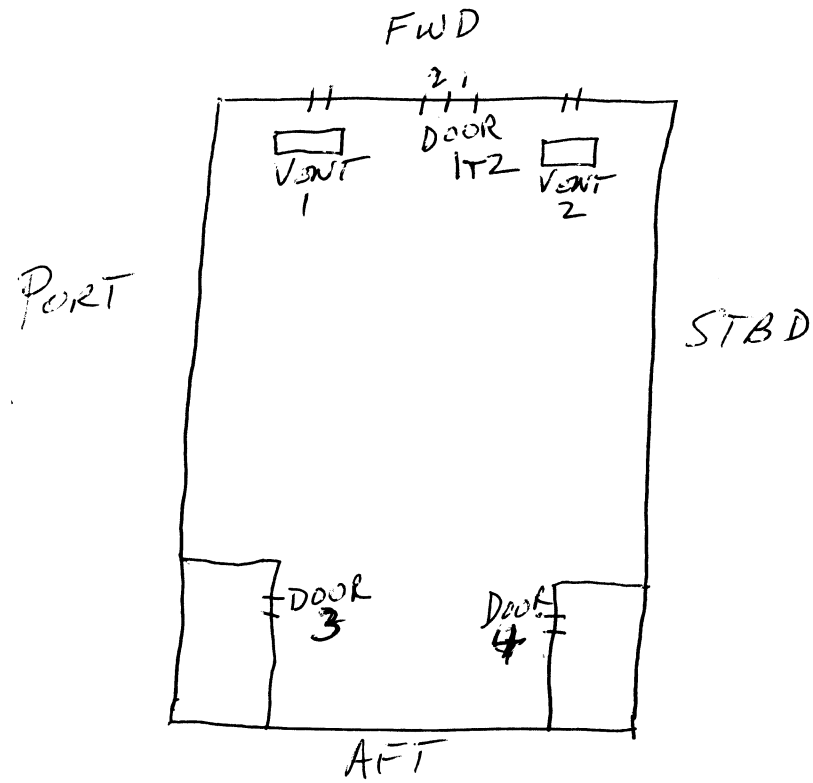
NSS-01 SURVEY NO. NSS-0016

Date 3/29/05 Time	DOSE RATE	CONTAMINATION	
Surveyor CRADDOCK	Inst. Type LUDLUM	Beta ✓ Alpha ____	Beta ____ Alpha ____
Signature [signature]	Serial No. 95499	Inst.Sn 97416	
Reviewed [signature]	β⁻ Factor ~~4mR/HR~~ TC	Eff. 10%	
	4uR/H BKG	Bkg. 30 cpm	cpm

AREA B DECK CENTER LINE DINING ROOM

COMPONENT

1. DOOR 1 THRESHOLD
2. DOOR 1 KNOB
3. DOOR 2 THRESHOLD
4. " KNOB
5. DOOR 3 THRESHOLD
6. " KNOB
7. DOOR 4 THRESHOLD
8. DOOR 4 KNOB
9. VENT 1
10. VENT 2



DR < BKGD ENTIRE DINING RM
FRISK < 100 CPM

SMEAR RESULTS ~~IN DPM/100 CM²~~ ~~B = BETA in mRAD/hr/100 CM²~~

NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS
1	<BKGD	9	<BKGD						
2	<BKGD	10	<BKGD						
3	<BKGD								
4	<BKGD								
5	<BKGD								
6	<BKGD								
7	<BKGD								
8	<BKGD								

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

RCA – RADIATION CONTROL AREA AA – AIRBORNE AREA

N.S. SAVANNAH
RADIOLOGICAL SURVEY

NSS-01 SURVEY NO. NSS-0017

Date 3-29-05 Time 1355	DOSE RATE	CONTAMINATION	
Surveyor Craddock	Inst. Type Ludlum	Beta ✓ Alpha ____	Beta ____ Alpha ____
Signature Craddock	Serial No. 95499	Inst.Sn 97416	
Reviewed [signature]	β⁻ Factor ~~4uR/H~~ TC	Eff. 10%	
	4uR/H	Bkg. 30 cpm	cpm

AREA B Deck Inboard Portside Steward Laundry

COMPONENT

DR < BKGD
FRISK < 100 CPM

SMEAR RESULTS ~~IN DPM/100 CM²~~ ~~B = BETA in mRAD/hr/100 CM²~~

NO.	RESULTS	N O.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS
1	< BKGD								
2	< BKGD								
3	< BKGD								
4	< BKGD								

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

RCA – RADIATION CONTROL AREA AA – AIRBORNE AREA

N.S. SAVANNAH
RADIOLOGICAL SURVEY

NSS-01 SURVEY NO. NSS-0018

Date 3-29-05 Time 1345	DOSE RATE	CONTAMINATION	
Surveyor CRADDOCK	Inst. Type Lullum	Beta ✓ Alpha ____	Beta ____ Alpha ____
Signature [signature]	Serial No. 95499	Inst.Sn 97416	
Reviewed [signature]	~~β Factor~~ BKG 4 uR/H	Eff. 10%	
		Bkg. 30 cpm	cpm

AREA B Deck CERT BARBER Shop (CREW)

COMPONENT

3 - FLOOR
4 - DOOR KNOB
5 - Threshold

D.R. METER
~~FRSK~~ <BKGD
FRSK <100 CPM

SMEAR RESULTS ~~IN DPM/100 CM²~~ ~~B = BETA in mRAD/hr/100 CM²~~

NO.	RESULTS	N O.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS
1	NA								
2	NA								
3	<BKGD								
4	<BKGD								
5	<BKGD								

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

RCA – RADIATION CONTROL AREA AA – AIRBORNE AREA

N.S. SAVANNAH
RADIOLOGICAL SURVEY

NSS-01 SURVEY NO. NSS-0019

Date 3-29-05 Time 0800-0900	DOSE RATE	CONTAMINATION	
Surveyor LOMAN Scott	Inst. Type Ludlum	Beta ✓ Alpha ____	Beta ____ Alpha ____
Signature Loman Scott	Serial No. 42972	Inst.Sn 91037	
Reviewed [signature]	β⁻ Factor /	Eff. 10%	
	BKG 4.0 μR/hr	Bkg. 40 cpm	cpm

AREA Promenade Deck VERANDA & MAIN LOUNGE

COMPONENT

1 SWIMMING POOL DOOR HANDLE PORTSIDE
2 MIDDLE of DANCE FLOOR
3 CLENING ROOM LOCKER PORTSIDE threshold
4 PANTRY Kitchen HAND CLEANING SINK PORTSIDE
5 MENS Bahroom PORTSIDE HAND SINK
6 PROMENADE threshold STARBOARD
7 LADIES POWDER ROOM HAND SINK
8 Projection Room Port Exit DOOR HANDLE
9 FAN ROOM STARBOARD FLOOR
10 FAN ROOM PORT FLOOR

FSKR - < 100
DM - < BKG

SMEAR RESULTS ~~IN DPM/100 CM²~~ ~~B – BETA in mRAD/hr/100 CM²~~

NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS
1	< BKGD	9	< BKGD						
2	< BKGD	10	< BKGD						
3	< BKGD								
4	< BKGD								
5	< BKGD								
6	< BKGD								
7	< BKGD								
8	< BKGD								

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

RCA – RADIATION CONTROL AREA AA – AIRBORNE AREA

N.S. SAVANNAH
RADIOLOGICAL SURVEY

NSS-01 SURVEY NO. NSS-0020

Date 3-29-05 Time 0900	DOSE RATE	CONTAMINATION	
Surveyor LOMAN SCOTT	Inst. Type LudLum 19	Beta ✓ Alpha ____	Beta ____ Alpha ____
Signature Loman Scott	Serial No. 42972	Inst.Sn 91037	
Reviewed Robert Truman	β⁻ Factor 1	Eff. 10%	
	BKG 40 µR/hr	Bkg. 40 cpm	cpm

AREA BOAT DECK

COMPONENT

1. OFFICERS LOUNGE THRESHOLD
2 OFFICERS LOUNGE HAND SINK
3. OFFICERS LOUNGE DOOR KNOB
4. OFFICERS LOUNGE VENT
5 OFFICERS LOUNGE FLOOR

1. OFFICERS LAUNDRY FLOOR
2 OFFICERS LAUNDRY SINK

STATEROOMS (OFFICERS)
1 threshold
2 DOOR KNOB
3 BATH FLOOR
4 BATH DOOR KNOB
5 AIR VENT
6 FLOOR

OFFICERS LOUNGE
FRSK < 100cpm
DM < BKG

PORT SIDE OFFICERS LAUNDRY
FRS < 100cpm
DM < BKG

LAT ROOM BT 12
FRS < 100cpm
DM < BKG

#3 120CPM GROSS 80 NET CPM
STATE ROOM BT 8
FRSK < 100cpm
DM < BKG

CHIEF RM 1ST ENGR STATE ROOM
FRSK < 100cpm
DM < BKG

SMEAR RESULTS ~~IN DPM/100 CM²~~ ~~B = BETA in mRAD/hr/100 CM²~~

NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS
1	< BKGD	1	< BKGD	1	< BKGD	1	< BKGD	1	< BKGD
2	< BKGD	2	< BKGD	2	< BKGD	2	< BKGD	2	< BKGD
3	< BKGD			3	< BKGD	3	< BKGD	3	< BKGD
4	< BKGD			4	< BKGD	4	< BKGD	4	< BKGD
5	< BKGD			5	< BKGD	5	< BKGD	5	< BKGD
				6	< BKGD	6	< BKGD	6	< BKGD

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

RCA – RADIATION CONTROL AREA AA – AIRBORNE AREA

N.S. SAVANNAH
RADIOLOGICAL SURVEY

NSS-01 SURVEY NO. NSS - 0021

Date 3-29 Time 1010	DOSE RATE	CONTAMINATION	
Surveyor LOMAN Scott	Inst. Type Ludlum 19	Beta ✓ Alpha ____	Beta ____ Alpha ____
Signature Loman Scott	Serial No. 42972	Inst.Sn 91037	
Reviewed [signature]	β⁻ Factor ✓	Eff. 10%	
	BKG 4.0 μR/hr	Bkg. 40 cpm	cpm

AREA OFFICERS DECK (BOAT DECK)

COMPONENT

OFFICERS STATE ROOMS
1 threshold
2 Door Knob
3 Bath Floor
4 Bath Door Knob
5 AIR VENT
6 Floor
7 Sink

1ST ASST. ENG (2ND ENGR) BT-6 FRSK < 100 cpm DM < BKG

CAPTAINS QUATERS FRSK < 100 cpm DM < BKG

BT-11 (ELEVEN) FRSK < 100 cpm DM < BKG

BT-13 FRSK < 100 cpm DM < BKG

CLEANING GEAR locker

SMEAR RESULTS ~~IN DPM/100 CM²~~ ~~B = BETA in mRAD/hr/100 CM²~~

NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS
1	< BKGD	1	< BKGD	1	< BKGD	1	< BKGD	2	< BKGD
2	< BKGD	2	< BKGD	2	< BKGD	2	< BKGD	6	SKIP
3	< BKGD	3	< BKGD	3	< BKGD	3	< BKGD	6	< BKGD
4	< BKGD	4	< BKGD	4	< BKGD	4	< BKGD	7	< BKGD
5	< BKGD	5	< BKGD	5	< BKGD	5	< BKGD		
6	< BKGD	6	< BKGD	6	< BKGD	6	< BKGD		

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

RCA – RADIATION CONTROL AREA AA – AIRBORNE AREA

N.S. SAVANNAH
RADIOLOGICAL SURVEY

NSS-01 SURVEY NO. NSS-0022

Date 3-29-05 Time 1300	DOSE RATE	CONTAMINATION	
Surveyor Logan Scott	Inst. Type LUDLUM 19	Beta ✓ Alpha ____	Beta ____ Alpha ____
Signature Logan Scott	Serial No. 42972	Inst.Sn 91037	
Reviewed Robert Pinnock	β⁻ Factor 1	Eff. 10%	
	BKG 4.0 µR/h	Bkg. 40 cpm	cpm

AREA NAVIGATION BRIDGE DECK

COMPONENT

1. threshold
2. DOOR KNOB
3. Bathroom floor
4. Bathroom Door KNOB
5. AIR Vent
6. Floor
7. SINK
8. ELEVATOR EQUIPTMENT platform RIGHT
9. ELEVATOR EQUIPTMENT platform Left

NOT ALL LOCATIONS TAKEN IN EACH ROOM

FRSK < 100 cpm DM < BKG BRIDGE TOILET

FRSK < 100 cpm DM < BKG CLEANING GEAR LOCKER

FRSK < 100 cpm DM < BKG NR 2

FRSK < 100 cpm DM < BKG NR 4

FRSK < 100 cpm DM < BKG ELEVATOR ROOM

SMEAR RESULTS ~~IN DPM/100 CM²~~ ~~B = BETA in mRAD/hr/100 CM²~~

NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS
1	< BKGD	7	< BKGD	1	< BKGD	1	< BKGD	2	< BKGD
2	< BKGD	1	< BKGD	2	< BKGD	2	< BKGD	6	< BKGD
7	< BKGD	3	< BKGD	3	< BKGD	3	< BKGD	8	< BKGD
				4	< BKGD	4	< BKGD	9	< BKGD
				5	< BKGD	5	< BKGD		
				6	< BKGD	6	< BKGD		

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

RCA – RADIATION CONTROL AREA AA – AIRBORNE AREA

N.S. SAVANNAH
RADIOLOGICAL SURVEY

NSS-01

SURVEY NO. NSS-0022

Date 3-29-05 Time 1300	DOSE RATE	CONTAMINATION	
Surveyor Loman Scott	Inst. Type Ludlum	Beta ✓ Alpha ____	Beta ____ Alpha ____
Signature Loman Scott	Serial No. 42972	Inst. Sn 91037	
Reviewed Robert Runnels	β⁻ Factor 1	Eff. 10%	
	BKG 40 µR/hr	Bkg. 40 cpm	cpm

AREA NAVIGATION BRIDGE DECK (Pilot House)

COMPONENT

BRIDGE

1. STARBOARD threshold
2. STARBOARD DOOR KNOB
3. PORT threshold
4. PORT DOOR KNOB
5. BRIDGE CENTER FLOOR
6. BRIDGE GRAB RAIL STARBOARD SIDE FRONT GLASS.

FRSK < 100 cpm
DM < BKG

SMEAR RESULTS ~~IN DPM/100 CM²~~ ~~B = BETA in mRAD/hr/100 CM²~~

NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS
1	< BKGD								
2	< BKGD								
3	< BKGD								
4	< BKGD								
5	< BKGD								
6	< BKGD								

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

RCA – RADIATION CONTROL AREA AA – AIRBORNE AREA

PAGE 1 OF 2

N.S. SAVANNAH
RADIOLOGICAL SURVEY

NSS-01

SURVEY NO. NSS-0023

Date 3-30-05 Time 0830	DOSE RATE HV 650V	CONTAMINATION	
Surveyor LOMAN SCOTT	Inst. Type DURATEC	Beta ✓ Alpha ____	Beta ____ Alpha ____
Signature Loman Scott	Serial No. 95499	Inst.Sn 97499	
Reviewed Rob T G Pennock	~~β Factor~~ NA	Eff. 10%	
	4 μR/Hr	Bkg. 30 cpm	cpm

AREA C-DECK CREW CABINS

COMPONENT

1. Threshold
2. DOORKNOB
3. BATH FLOOR
4. BATH DOORKNOB
5. Vent
6. ROOM FLOOR
7. SINK

C-11 STARBOARD: FRSK <100, DM < BKG

C-5 STARBOARD: FRSK <100, DM < BKG

CLEANING GEAR LOCKER OPPSITE C-2: FRSK <100, DM < BKG

C-2 PORT: FRSK <100, DM < BKG

C-4 PORT (BLUE PRINT ROOM?)

SMEAR RESULTS ~~IN DPM/100 CM²~~ ~~B = BETA in mRAD/hr/100 CM²~~

NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS
1	< BKGD	1	< BKGD	1	< BKGD	1	< BKGD	1	< BKGD
2	< BKGD	2	< BKGD	6	< BKGD	2	< BKGD	2	< BKGD
3	< BKGD	3	< BKGD	7	< BKGD	3	< BKGD	3	< BKGD
4	< BKGD	4	< BKGD			4	< BKGD	4	< BKGD
5	< BKGD	5	< BKGD			5	< BKGD	5	< BKGD
6	< BKGD	6	< BKGD			6	< BKGD	6	< BKGD

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

RCA – RADIATION CONTROL AREA AA – AIRBORNE AREA

N.S. SAVANNAH
RADIOLOGICAL SURVEY

NSS-01 SURVEY NO. NSS-0023

Date 3-30-05 Time 1100	DOSE RATE	CONTAMINATION	
Surveyor LOMAN SCOTT	Inst. Type HVG50V DURATEK	Beta ✓ Alpha ____	Beta ____ Alpha ____
Signature Loman Scott	Serial No. 95499	Inst.Sn 97499	
Reviewed Ralph Summah	~~β Factor~~ NA	Eff. 10%	
	4 MR/Hr	Bkg. 30 cpm	cpm

AREA C-DECK CREW CABINS

COMPONENT

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

FRSK < 100
DM-BKG < 10

SMEAR RESULTS ~~- IN DPM/100 CM²~~ ~~B = BETA in mRAD/hr/100 CM²~~

NO.	RESULTS	N O.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS
1	< BKGD								
2	< BKGD								
3	< BKGD								
4	< BKGD								
5	< BKGD								
6	< BKGD								

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

RCA – RADIATION CONTROL AREA AA – AIRBORNE AREA

N.S. SAVANNAH
RADIOLOGICAL SURVEY

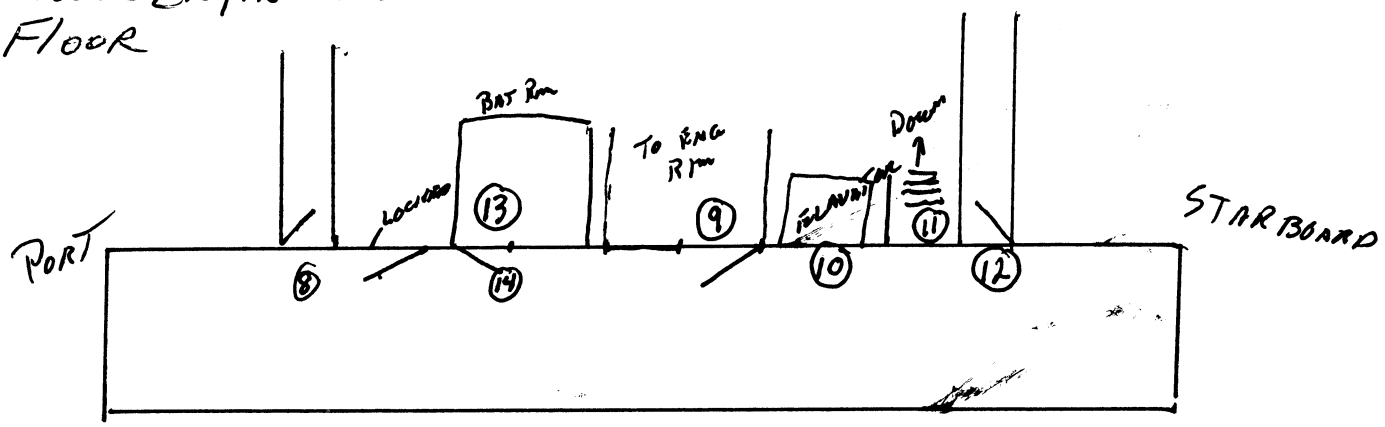
NSS-01 SURVEY NO. NSS-0024

Date 3-30-05 Time	DOSE RATE AV650V	CONTAMINATION	
Surveyor LOMAN SCOTT	Inst. Type DURATEC	Beta ✓ Alpha____	Beta____Alpha____
Signature Loman Scott	Serial No. 95499	Inst.Sn 97416	
Reviewed [illegible]	~~β Factor~~ NA	Eff. 10%	
	4 μR/Hr	Bkg. 30 cpm	cpm

AREA C DECK - MACHINE LOADING PASSAGE

COMPONENT

#8 PORT - MACHINE LOADING AREA (CREW) BOW
#9 FLOOR ENGINE ROOM ACCESS (PORT)
#10 ELEVATOR FLOOR
#11 FLOOR ENGINE ROOM ACCESS
#12 FLOOR



13 - FLOOR
14 - DOOR HANDLE BAT Rm

FRSK < 100
DM < BKG

SMEAR RESULTS ~~IN DPM/100 CM²~~ ~~B = BETA in mRAD/hr/100 CM²~~

NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS
8	< BKGD								
9	< BKGD								
10	< BKGD								
11	< BKGD								
12	< BKGD								
13	< BKGD								
14	< BKGD								

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

RCA – RADIATION CONTROL AREA AA – AIRBORNE AREA

N.S. SAVANNAH
RADIOLOGICAL SURVEY

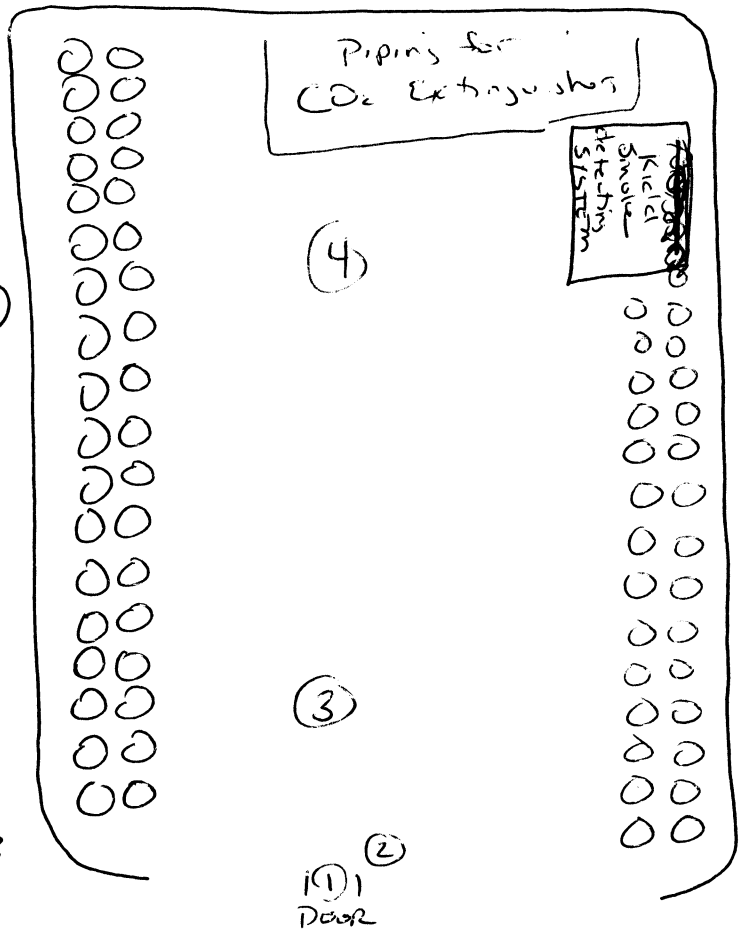
NSS-01 SURVEY NO. NSS-0025

Date 3·30·05 Time 10·45	DOSE RATE	CONTAMINATION	
Surveyor Craddock	Inst. Type Ludlum	Beta ✓ Alpha ____	Beta ____ Alpha ____
Signature [signature]	Serial No. 95499	Inst.Sn 97416	
Reviewed [signature]	~~β Factor~~ 4 uR/H BKG	Eff. 10%	
		Bkg. 30 cpm	cpm

AREA C DECK STARBORD SIDE CO2 ROOM (FIRE EXTINGUISHER)

COMPONENT

#1 Threshold
#2 doorknob
#3 deck (front)
#4 deck (REAR)



<BKGD DR
<100 CPM FRISK

SMEAR RESULTS ~~IN DPM/100 CM²~~ ~~B = BETA in mRAD/hr/100 CM²~~

NO.	RESULTS	N O.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS
1	<BKGD								
2	<BKGD								
3	<BKGD								
4	<BKGD								

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

RCA – RADIATION CONTROL AREA AA – AIRBORNE AREA

N.S. SAVANNAH
RADIOLOGICAL SURVEY

NSS-01 SURVEY NO. NSS-0026

Date 3 30-05 Time 10.30	DOSE RATE	CONTAMINATION	
Surveyor Craddock	Inst. Type Ludlum	Beta ✓ Alpha____	Beta____Alpha____
Signature Craddock	Serial No. 95499	Inst.Sn 97416	
Reviewed [signature]	β⁻ Factor ~~4 μR/H~~ BS N/A	Eff. 10%	
	BKG 4 μR/hr	Bkg. 30 cpm	cpm

AREA C DECK PORT SIDE
AFT OF MACHINE LOADING PASSAGE

COMPONENT

1. Threshold
2. Door Handle
3. Bath Floor
4. Bath Door Handle
5. Air Vent
6. Main Floor
7. sink

C 24
DR < BKGD
FRISK < 100 CPM

C 18
< BKGD
< 100 CPM

TC
~~Cleaning~~
~~Gear~~
~~Locker~~
Cleaning
Gear Locker
< BKGD
< 100 CPM

SMEAR RESULTS ~~IN DPM/100 CM²~~ ~~B = BETA in mRAD/hr/100 CM²~~

NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS
1	< BKGD	1	< BKGD	1	< BKGD				
2	< BKGD	2	< BKGD	6	< BKGD				
3	< BKGD	3	< BKGD	7	< BKGD				
4	< BKGD	4	< BKGD						
5	< BKGD	5	< BKGD						
6	< BKGD	6	< BKGD						

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

RCA – RADIATION CONTROL AREA AA – AIRBORNE AREA

N.S. SAVANNAH
RADIOLOGICAL SURVEY

NSS-01 SURVEY NO. NSS-0027

Date 3/20/05 Time 11:00	DOSE RATE	CONTAMINATION	
Surveyor Craddock	Inst. Type Ludlum	Beta ✓ Alpha____	Beta____Alpha____
Signature [signature]	Serial No. 95499	Inst.Sn 97416	
Reviewed [signature]	β⁻Factor ✓	Eff. 10%	
	BKG 4 μR	Bkg. 30 cpm	cpm

AREA C-DECK STARBOARD SIDE
AFT OF MACH LOADING PASSAGE.

COMPONENT

1. THRESHOLD
2. DOOR HANDLE
3. BATH FLOOR
4. BATH DOOR HANDLE
5. AIRVENT
6. MAIN CABIN FLOOR
7. SINK

DR < BKG
FRISK < 100 cpm

C-13 ACCROSS FROM FIRE ROOM
< BKG
< 100 CPM

C-19 1 ROOM AFT of STEPS
< BKG
< 100 CPM

C-23 END OF HALL TOWARD BOOD STEAM
< BKG
< 100 CPM

ENTERTAINMENT MUSIC ROOM

SMEAR RESULTS ~~IN DPM/100 CM²~~ ~~B = BETA in mRAD/hr/100 CM²~~.

NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS
1	< BKGD	1	< BKGD	1	< BKGD	1	< BKGD		
2	< BKGD	2	< BKGD	2	< BKGD	2	< BKGD		
3	< BKGD	3	< BKGD	3	< BKGD	6	< BKGD		
4	< BKGD	4	< BKGD	4	< BKGD				
5	< BKGD	5	< BKGD	5	< BKGD				
6	< BKGD	6	< BKGD	6	< BKGD				

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

RCA – RADIATION CONTROL AREA AA – AIRBORNE AREA

N.S. SAVANNAH

RADIOLOGICAL SURVEY

NSS-01 SURVEY NO. NSS-0028

Date 3-30-05 Time	DOSE RATE	CONTAMINATION	
Surveyor R Brennan / J Stoudy	Inst. Type µR meter	Beta ✓ Alpha ____	Beta ____ Alpha ____
Signature R Brennan	Serial No. 95469	Inst.Sn 91039	
Reviewed	β⁻ Factor —	Eff. 10%	
	D.R. BKG < 4 µR/hr	Bkg. < 30 cpm	cpm

AREA Engine Room Upper Landing to Machinery Passage

COMPONENT

SEE ATTACHED DRAWING

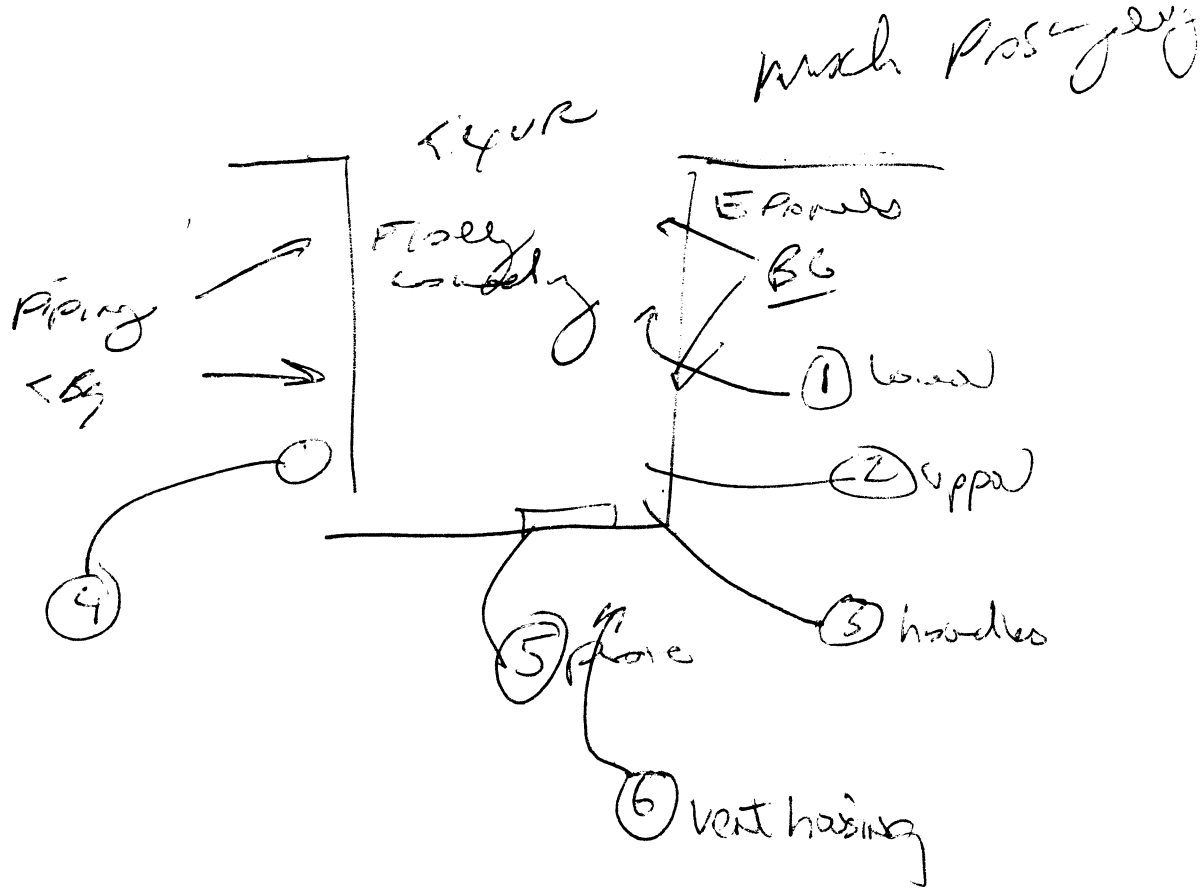
DR < BKG
Trish < BKG

SMEAR RESULTS ~~N DPM/100 CM²~~ ~~B = BETA in mRAD/hr/100 CM².~~

NO.	RESULTS	N O.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS
1	< BKG								
2	< BKG								
3	< BKG								
4	< BKG								
5	< BKG								
6	< BKG								

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

RCA – RADIATION CONTROL AREA AA – AIRBORNE AREA


Piping
Flolly
E Panels
BG
1 lower
2 upper
3 handles
4
5 plate
6 vent housing

N.S. SAVANNAH
RADIOLOGICAL SURVEY

NSS-01 SURVEY NO. NSS-0029

Date 3-30-05 Time	DOSE RATE	CONTAMINATION	
Surveyor R Pennock / J Stoury	Inst. Type μR Meter	Beta ✓ Alpha ____	Beta ____ Alpha ____
Signature [signature]	Serial No. 95469	Inst.Sn Frisker 91039	
Reviewed [signature]	β⁻Factor —	Eff. ~10%	
	D.R Bkg < 4 μR/hr	Bkg. < 30 cpm	cpm

AREA Engine Room Upper Level

COMPONENT

See Attached Drawing

DR < BKG
FRISK < BKG

SMEAR RESULTS ~~IN DPM/100 CM²~~ ~~B = BETA in mRAD/hr/100 CM²~~

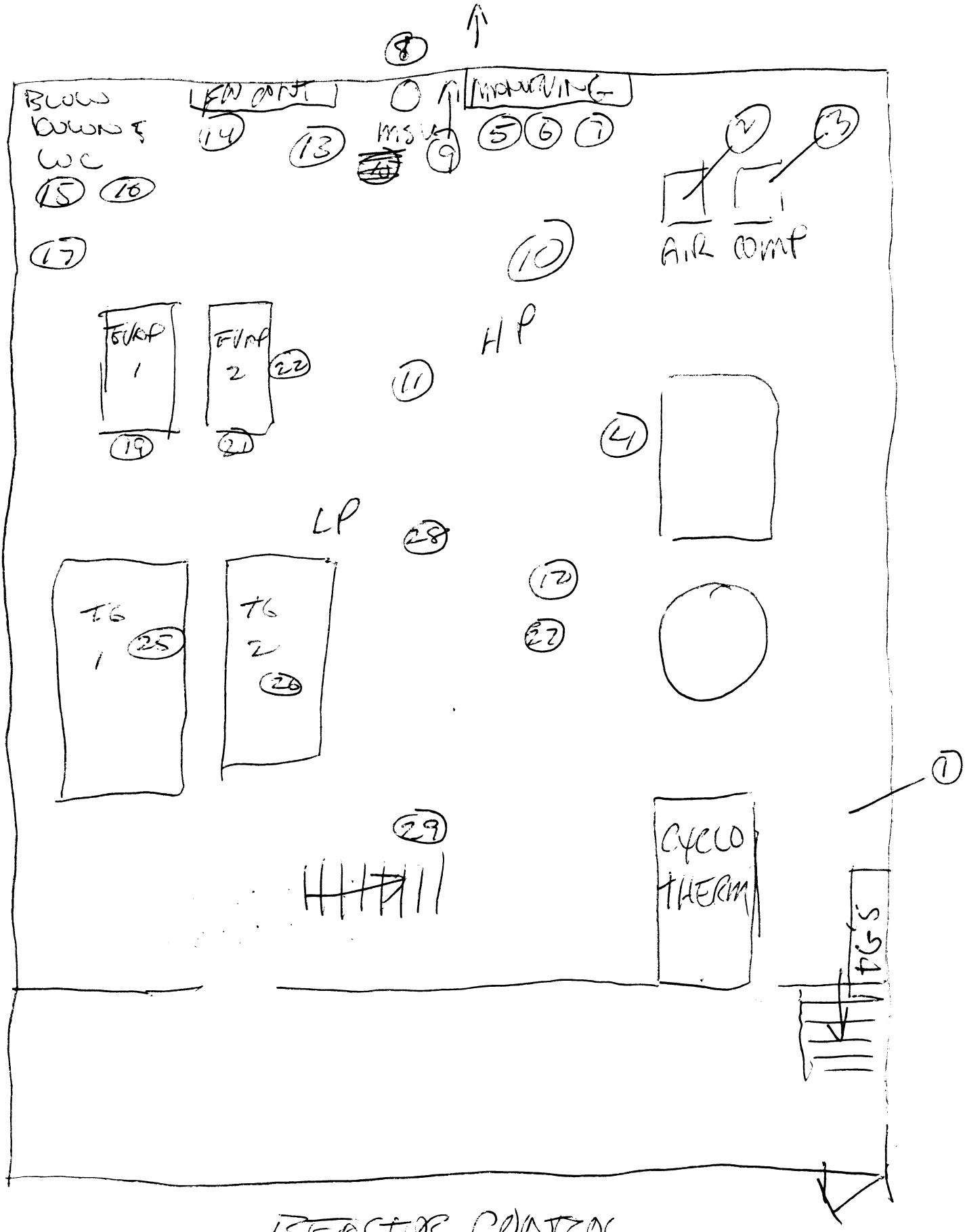
NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS
1	< BKG	9	< BKG	17	< BKG	25	< BKG		
2	< BKG	10	< BKG	18	< BKG	26	< BKG		
3	< BKG	11	< BKG	19	< BKG	27	< BKG		
4	< BKG	12	< BKG	20	< BKG	28	< BKG		
5	< BKG	13	< BKG	21	< BKG	29	< BKG		
6	< BKG	14	< BKG	22	< BKG				
7	< BKG	15	< BKG	23	NA				
8	< BKG	16	< BKG	24	< BKG				

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

RCA – RADIATION CONTROL AREA AA – AIRBORNE AREA

3/3/05

ENGINE ROOM - UPPER FLAT



N.S. SAVANNAH
RADIOLOGICAL SURVEY

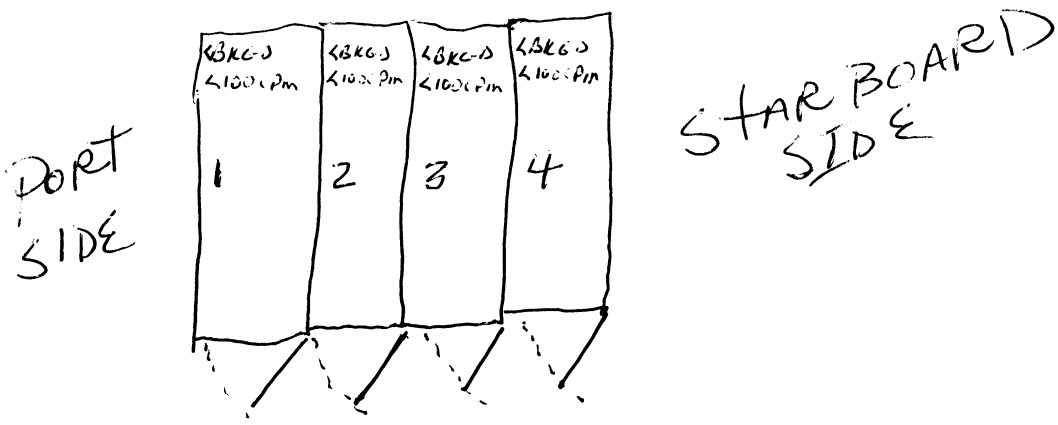
NSS-01 SURVEY NO. NSS-0030

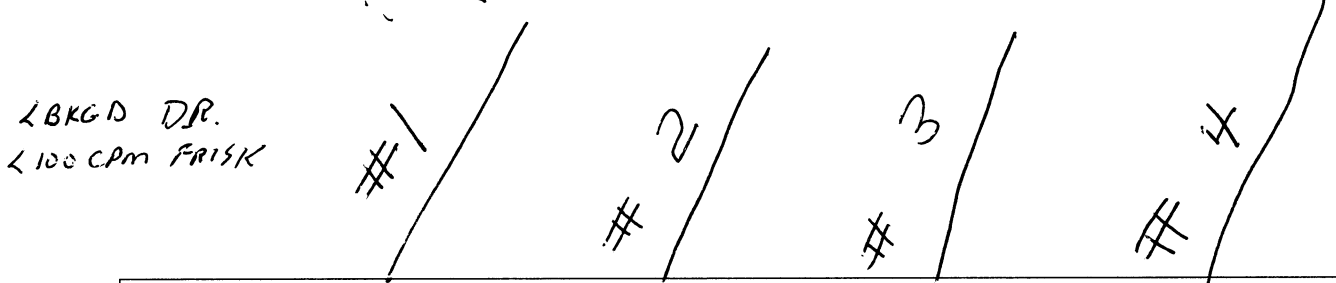
Date 3-30-05 Time 1130	DOSE RATE	CONTAMINATION	
Surveyor LOMAN SCOTT	Inst. Type Ludlum	Beta ✓ Alpha ____	Beta ____ Alpha ____
Signature Loman Scott	Serial No. 42972	Inst.Sn 97416	
Reviewed [signature]	β⁻ Factor N/A	Eff. 10%	
	BKG 4uR/H	Bkg. 30 cpm	cpm

AREA C DECK HALLWAY LOCKERS FOR BREATHING APPARATUS

COMPONENT

1. DOOR HANDLE
2. INSIDE LOCKER





SMEAR RESULTS ~~IN DPM/100 CM²~~ ~~B = BETA in mRAD/hr/100 CM²~~

NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS
1	<BKGD	1	<BKGD	1	<BKGD	1	<BKG		
2	<BKGD	2	<BKGD	2	<BKGD	2	<BKG		

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

RCA – RADIATION CONTROL AREA AA – AIRBORNE AREA

N.S. SAVANNAH
RADIOLOGICAL SURVEY

NSS-01 SURVEY NO. NSS-0031

Date 3-30-05 Time 9:20 AM	DOSE RATE	CONTAMINATION	
Surveyor ROBERT E PENNOCK	Inst. Type N/A	Beta ✓ Alpha ____	Beta ____ Alpha ____
Signature Robert E Pennock	Serial No.	Inst.Sn 75869	
Reviewed [illegible]	β⁻ Factor	Eff. 16%	
		Bkg. 30 cpm	cpm

AREA BOTTOM DRAIN OF EXHAUST VENT TO TOP OF MAST
"A" DECK IN FRONT OF #4 HOLD COVER

COMPONENT

FRISKER < BKG

1 VALVE RETRACTOR (INSIDE)
2 VALVE PLATES
3 VALVE BODY (INSIDE)

SMEAR RESULTS ~~IN DPM/100 CM²~~ ~~B = BETA in mRAD/hr/100 CM²~~

NO.	RESULTS	N O.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS
1	< BKGD								
2	< BKGD								
3	< BKGD								

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

RCA – RADIATION CONTROL AREA AA – AIRBORNE AREA

N.S. SAVANNAH
RADIOLOGICAL SURVEY

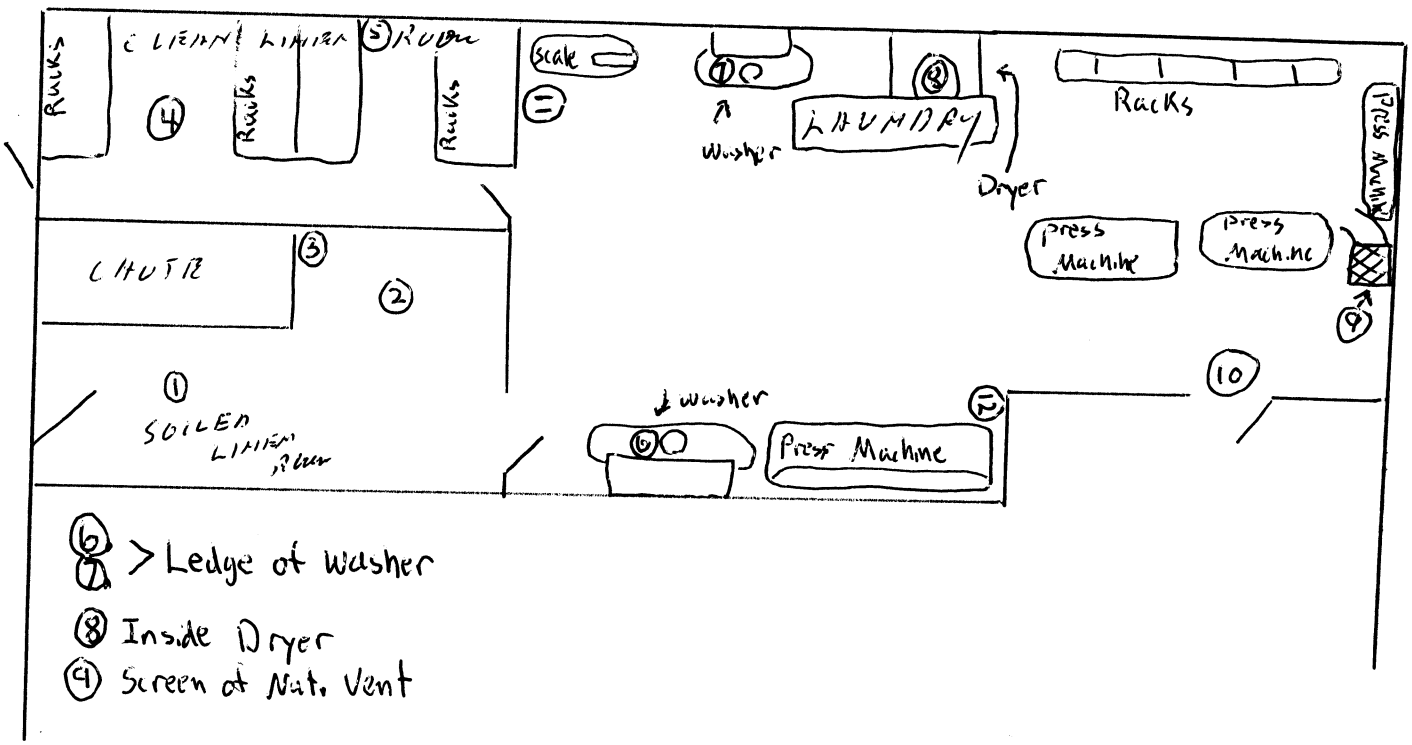
NSS-01 SURVEY NO. NSS-0032

Date 3-31-05 Time 1045	DOSE RATE	CONTAMINATION	
Surveyor Loman Scott	Inst. Type Ludlum 19	Beta ✓ Alpha ____	Beta ____ Alpha ____
Signature Loman Scott	Serial No. 42972	Inst.Sn 91037	
Reviewed Robert Pinnock	~~β Factor~~	Eff. 10%	
	BKG 4/4 RH	Bkg. 40 cpm	cpm

AREA Laundry & Linen Rooms - C Deck

COMPONENT

Port



⑥ ⑦ > Ledge of Washer
⑧ Inside Dryer
⑨ Screen of Nat. Vent

FRISK < 100 cpm
DR < 4 μR/hr

SMEAR RESULTS ~~IN DPM/100 CM²~~ ~~B = BETA in mRAD/hr/100 CM²~~

NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS
1	< BKGD	9	< BKGD						
2	< BKGD	10	< BKGD						
3	< BKGD	11	< BKGD						
4	< BKGD	12	< BKGD						
5	< BKGD								
6	< BKGD								
7	< BKGD								
8	< BKGD								

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

RCA – RADIATION CONTROL AREA AA – AIRBORNE AREA

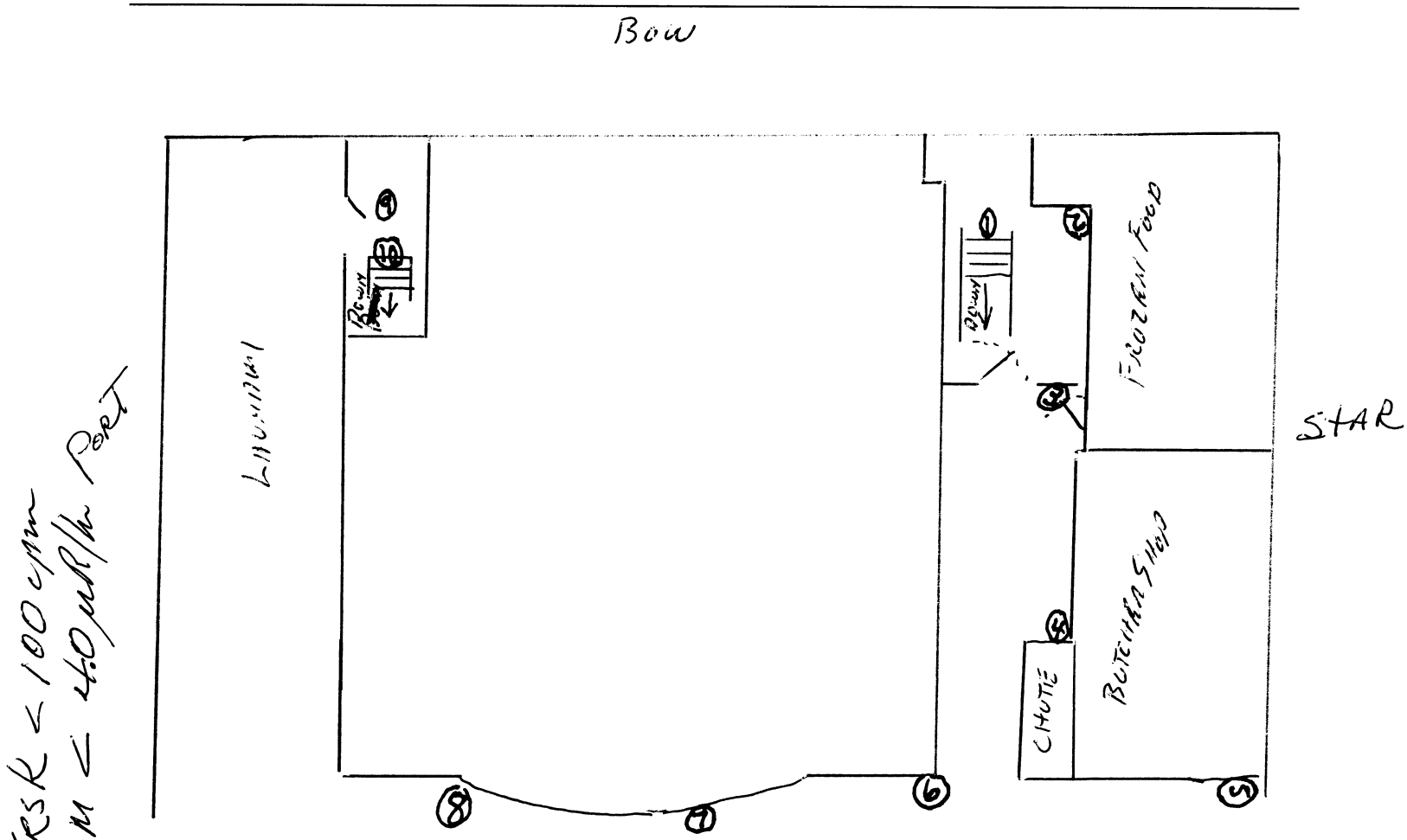
N.S. SAVANNAH
RADIOLOGICAL SURVEY

NSS-01 SURVEY NO. NSS-0033

Date 3-31 Time 0800	DOSE RATE	CONTAMINATION	
Surveyor Loman Scott	Inst. Type Ludlum 19	Beta ✓ Alpha ____	Beta ____ Alpha ____
Signature Loman Scott	Serial No. 42972	Inst.Sn 91037	
Reviewed [illegible]	β⁻ Factor —	Eff. 10%	
	BKG 4 hr/h	Bkg. 40 cpm	cpm

AREA C-DECK PORT & STARBOARD PASSAGEWAYS

COMPONENT



SMEAR RESULTS ~~IN DPM/100 CM²~~ ~~B = BETA in mRAD/hr/100 CM²~~

NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS
1	< BKGD	9	< BKGD						
2	< BKGD	10	< BKGD						
3	< BKGD								
4	< BKGD								
5	< BKGD								
6	< BKGD								
7	< BKGD								
8	< BKGD								

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

RCA – RADIATION CONTROL AREA AA – AIRBORNE AREA

N.S. SAVANNAH
RADIOLOGICAL SURVEY

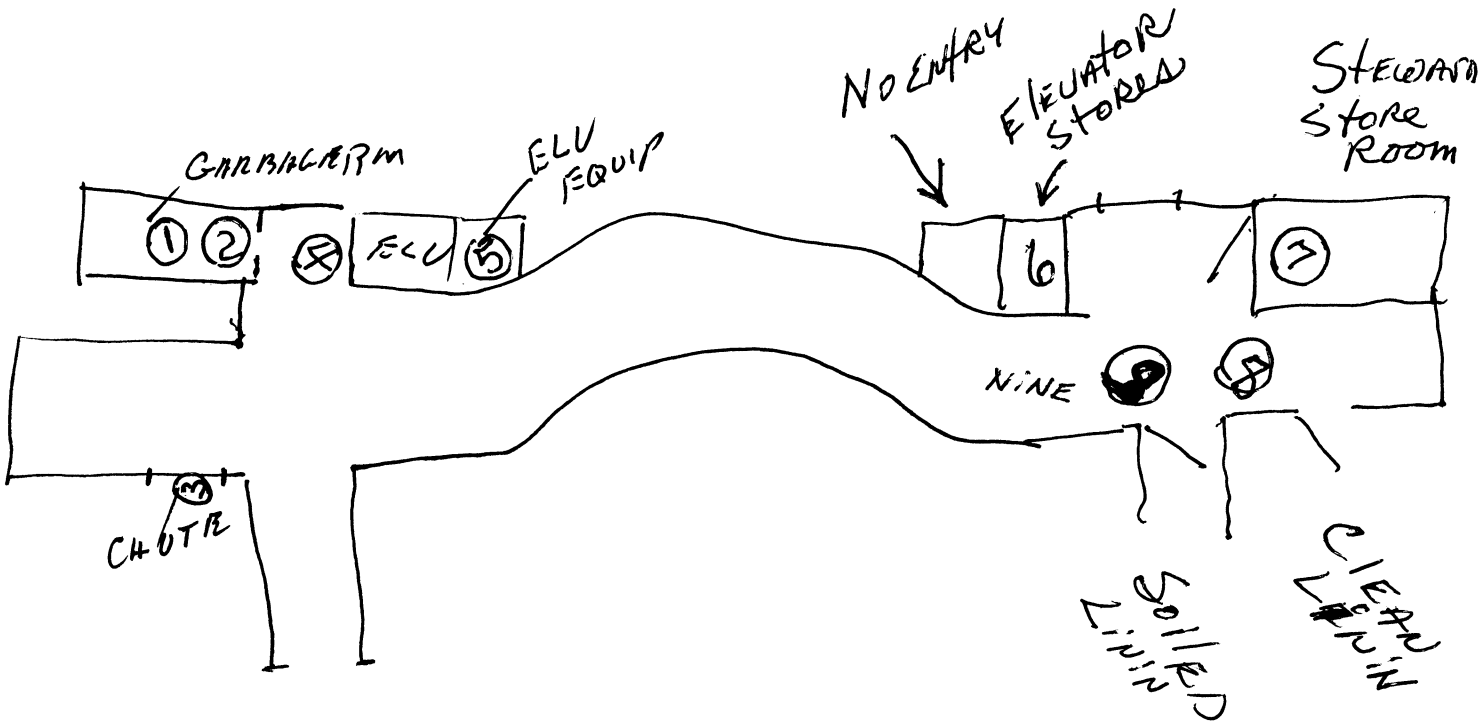
NSS-01 SURVEY NO. NSS-0034

Date 3-31-05 Time 0800	DOSE RATE	CONTAMINATION	
Surveyor Lamar Scott	Inst. Type LUDMIN DURATEC	Beta ✓ Alpha ____	Beta ____ Alpha ____
Signature Lamar Scott	Serial No. 95499	Inst.Sn 97416	
Reviewed [signature]	~~β Factor~~	Eff. 10%	
	BKG - 4 μR/hr	Bkg. 40 cpm	cpm

LAS AREA ~~D~~ DECK C — HALLWAY & LAUNDRY ENTRANCE

COMPONENT STORES LOADING PASSAGE

O = FLOOR



SMEAR RESULTS ~~IN DPM/100 CM²~~ ~~B = BETA in mRAD/hr/100 CM²~~

NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS
1	<BKGD	9	<BKGD						
2	<BKGD								
3	<BKGD								
4	<BKGD								
5	<BKGD								
6	<BKGD								
7	<BKGD								
8	<BKGD								

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

RCA – RADIATION CONTROL AREA AA – AIRBORNE AREA

N.S. SAVANNAH

RADIOLOGICAL SURVEY

NSS-01 SURVEY NO. NSS-0035

Date 3-31-05 Time 11:00	DOSE RATE	CONTAMINATION	
Surveyor Bob Pennock	Inst. Type μR Meter	Beta 1 Alpha ____	Beta ____ Alpha ____
Signature Robert Pennock	Serial No. 95469	Inst.Sn 91037	
Reviewed [illegible]	β Factor —	Eff. ~10%	
	BKG 2 μR/hr	Bkg. 30 cpm	cpm

AREA _____

COMPONENT Source Receipt

DR ≤ BKG

FIXED ≤ BKG

SMEARS

1 Source Cam

2 Tc 99 case

3 Th 230 case

4 Tc 99 source

5 Th 230 source

SMEAR RESULTS ~~IN DPM/100 CM²~~ ~~B = BETA in mRAD/hr/100 CM²~~									
NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS
1	< BKG								
2	< MDA								
3	< BKG								
4	< BKG								
5	< BKG								

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

RCA – RADIATION CONTROL AREA AA – AIRBORNE AREA

N.S. SAVANNAH
RADIOLOGICAL SURVEY

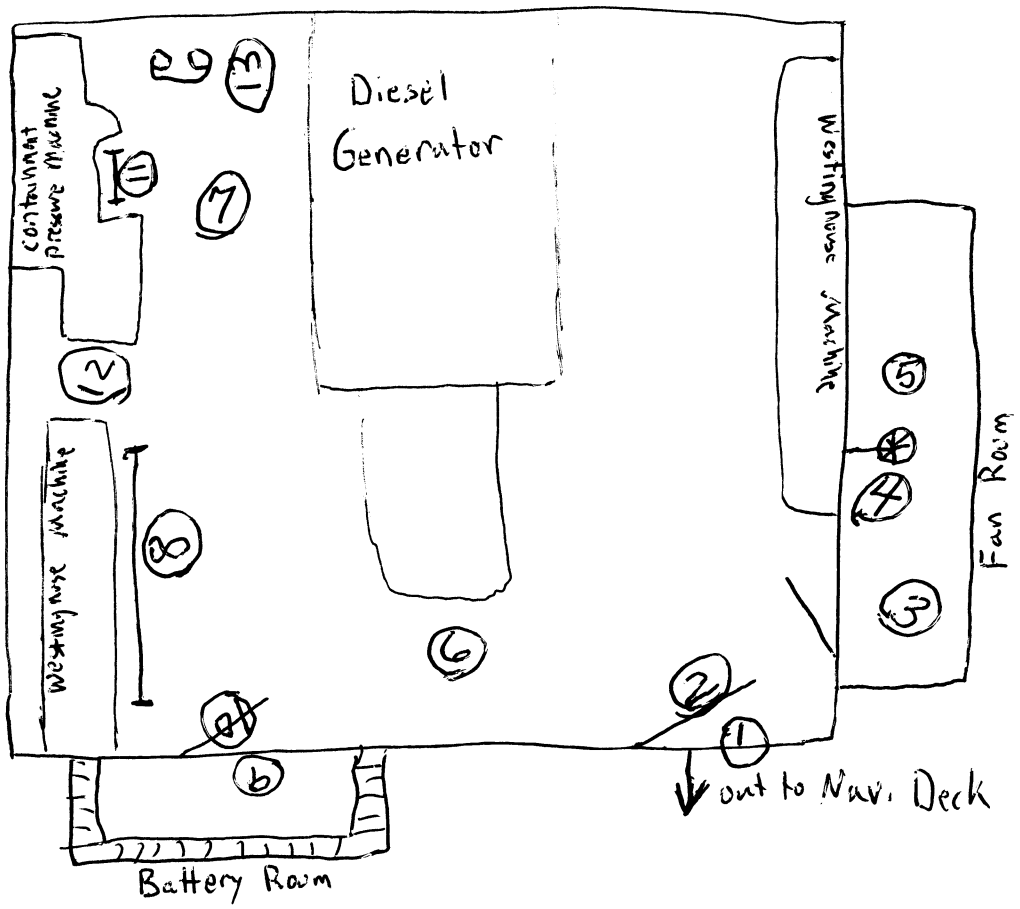
NSS-01 SURVEY NO. NSS-0036

Date 33105 Time 0810	DOSE RATE	CONTAMINATION	
Surveyor Lomaw Scott	Inst. Type Ludlum 19	Beta ✓ Alpha ____	Beta ____ Alpha ____
Signature Lomaw Scott	Serial No. 42972	Inst.Sn 91037	
Reviewed Ralph E Lunnock	~~β Factor~~	Eff. 10%	
	BKG/hR/hr	Bkg. 40 cpm	cpm

AREA NAVIGATION DECK

COMPONENT EMERGENCY GENERATOR ROOM

#13 TELEPHONE



Starboard

FRSK < 100 ~~cpm/100 BGD~~
DM < 40 μR/hr

Port
#2 DOOR HANDLE
#4 VALVE HANDLE FOR CIRULATED WATER FROM COOLING COIL
GRAB 8 BAR
#10 DOOR HANDLE BATT
#11 GRAB HANDLE CONTAINM PRESSURE MACHINE

SMEAR RESULTS ~~IN DPM/100 CM²~~ ~~B = BETA in mRAD/hr/100 CM²~~

NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS
1	< BKG	9	< BKGD						
2	< BKG	10	< BKGD						
3	< BKG	11	< BKGD						
4	< BKG	12	< BKGD						
5	< BKG	13	< BKGD						
6	< BKG								
7	< BKG								
8	< BKG								

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

RCA – RADIATION CONTROL AREA AA – AIRBORNE AREA

N.S. SAVANNAH
RADIOLOGICAL SURVEY

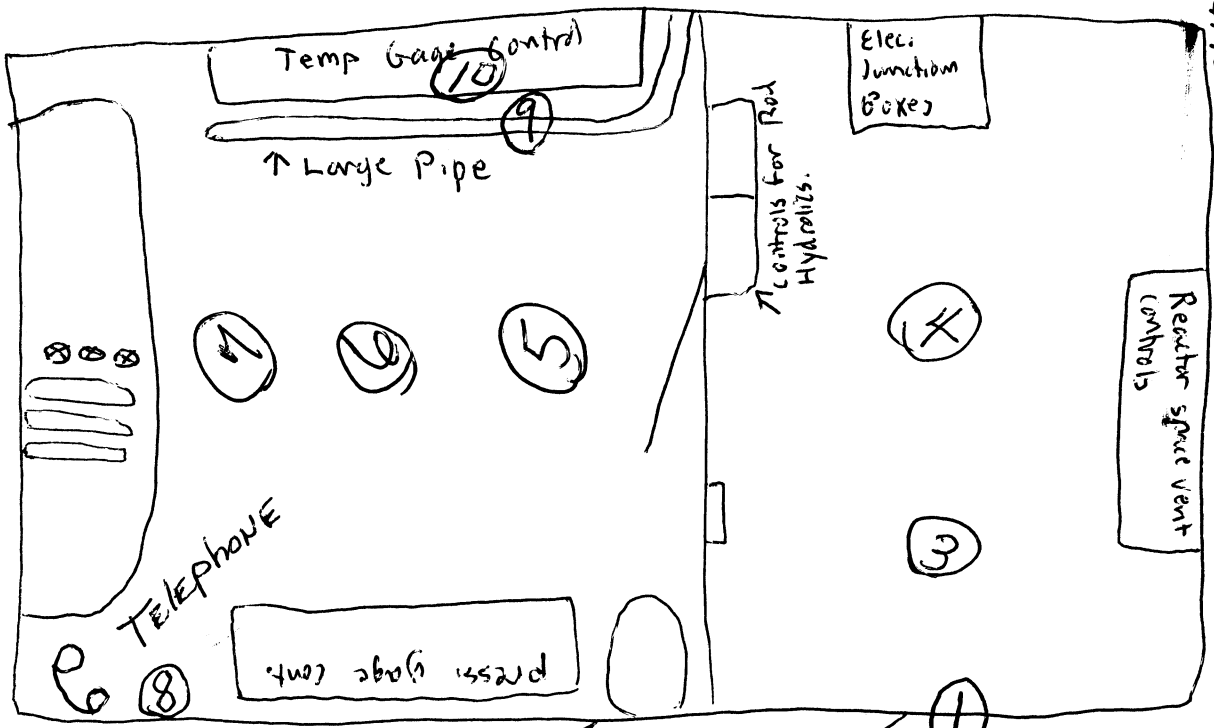
NSS-01 SURVEY NO. NSS-0037

Date 3/31/66 Time	DOSE RATE	CONTAMINATION	
Surveyor Lomax Scott	Inst. Type Ludlum 19	Beta ✓ Alpha	Beta Alpha
Signature Lomax Scott	Serial No. 42972	Inst.Sn 91037	
Reviewed Ruth Lunch	~~β Factor~~	Eff. 10%	
	BKG 4 MR/h	Bkg. 40 cpm	cpm

AREA ~~Forecas~~ ~~Lobby~~ LHS (HYDRAULIC EQUIPMENT PLATFORM)

COMPONENT B-DECK

Port



#1 THERMOID
#2 DOOR HANDLE
#8 PHONE
#9 LARGE PIPE TOP
#10 VALVE HANDLES ON TEMP GAGE

<RSK < 100 cpm
DM < 40 mR/h

SMEAR RESULTS ~~IN DPM/100 CM²~~ ~~β = BETA IN mRAD/hr/100 CM²~~

NO.	RESULTS	N O.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS
1	<BKGD	9	<BKGD						
2	<BKGD	10	<BKGD						
3	<BKGD								
4	<BKGD								
5	<BKGD								
6	<BKGD								
7	<BKGD								
8	<BKGD								

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

RCA – RADIATION CONTROL AREA AA – AIRBORNE AREA

N.S. SAVANNAH
RADIOLOGICAL SURVEY

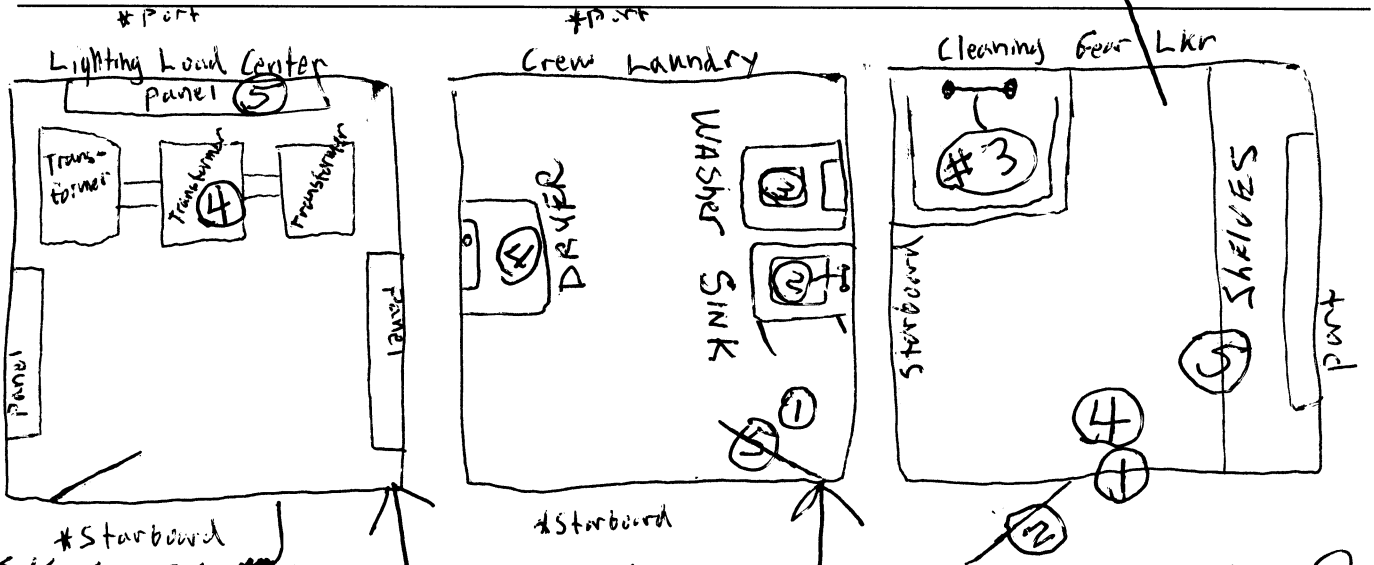
NSS-01 SURVEY NO. NSS-0038

Date 3-31-05 Time 0945	DOSE RATE	CONTAMINATION	
Surveyor LOMAN SCOTT	Inst. Type Ludlum 19	Beta ✓ Alpha	Beta Alpha
Signature Loman Scott	Serial No. 42972	Inst.Sn 91037	
Reviewed Robert Cannah	~~β Factor~~	Eff. 10%	
	BKG 4 µR/hr	Bkg. 40 cpm	cpm

AREA B DECK

COMPONENT CREW LAUNDRY

FRSK < 100 cpm
DM < 40 µR/hr



#Starboard
FRSK < 100 cpm
DM < 40 µR/hr

#1 threshold
#2 FLOOR
#3 DOOR HANDLE
#4 TOP MIDDLE
#5 PANNEL (MAIN)

#Starboard

#1 FLOOR
#2 SINK BASIN
#3 INSIDE WASHER
#4 INSIDE DRYER
#5 DOOR KNOB
FRSK < 100 cpm
DM < 40 µR/h

#1 threshold
#2 DOOR KNOB
#3 SINK
#4 FLOOR
#5 SHELF

SMEAR RESULTS ~~IN DPM/100 CM~~ ~~B = BETA in mRAD/hr/100 CM²~~

NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS
1	<BKGD			1	<BKGD	1	<BKGD		
2	<BKGD			2	<BKGD	2	<BKGD		
3	<BKGD			3	<BKGD	3	<BKGD		
4	<BKGD			4	<BKGD	4	<BKGD		
5	<BKGD			5	<BKGD	5	<BKGD		

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

RCA – RADIATION CONTROL AREA AA – AIRBORNE AREA

N.S. SAVANNAH
RADIOLOGICAL SURVEY

NSS-01 SURVEY NO. NSS-0039

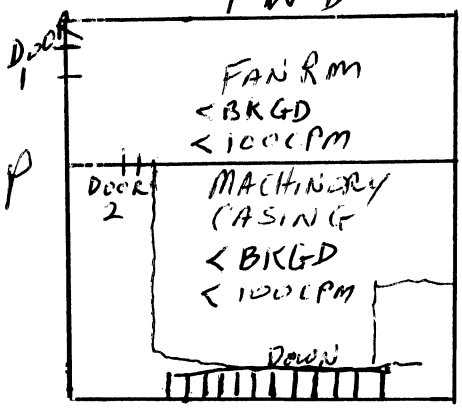
Date 3/31/05 Time	DOSE RATE	CONTAMINATION	
Surveyor Craddock	Inst. Type LUDLUM	Beta ✓ Alpha ____	Beta ____ Alpha ____
Signature Craddock	Serial No. 95499	Inst.Sn 97416	
Reviewed	β^- Factor	Eff. 10%	
	2.5 ~~2.5~~ mR/HR	Bkg. 30 cpm	cpm

AREA FAN ROOM BOAT DECK

COMPONENT

< BKG
< 100 CPM

FWD



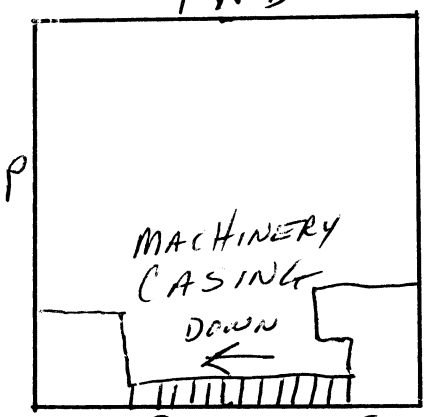
FAN RM BOAT DECK

FAN RM SWIPES

1. DOOR 1
2. DOOR 2
3. THRESHOLD 1
4. THRESHOLD 2

< BKG
< 100 CPM

FWD



PROMENADE DECK

MACHINERY CASING STAGE

1. VALVE DCV10
2. VALVE LG TOP 3RD STAGE HTR
3. 3RD STAGE VENT VALVE
4. DOOR TO BULGE DCV120
5. DCV300 VALVE
6. GRATING TOP STEPS
7. HANDRAIL

MACHINERY CASING BOAT DK.

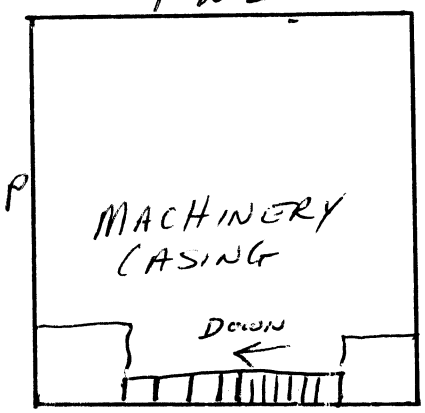
PROMENADE DECK SWIPES

8. VALVE MOV60
9. MCV11 VALVE
10. MCV12 VALVE
11. HAND HOLD OFF STAIR WAY
12. HAND HOLD ON WALL MACHINERY CASING

PROM DK

< BKG
< 100 CPM

FWD



"A" DECK

SWIPES

13. HANDRAIL BESIDE LO TK
14. " OPPOSITE LO TK
15. " BELOW LO TK
16. " OPPOSITE #13 SWIPE
17. SMALL HAND GRAB ON LO TANK

MACHINERY CASING A DECK

SMEAR RESULTS ~~IN DPM/100 CM²~~ ~~B = BETA in mRAD/hr/100 CM²~~

NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS
1	< BKGD	1	< BKGD	8	< BKGD	13	< BKGD		
2	< BKGD	2	< BKGD	9	< BKGD	14	< BKGD		
3	< BKGD	3	< BKGD	10	< BKGD	15	< BKGD		
4	< BKGD	4	< BKGD	11	< BKGD	16	< BKGD		
		5	< BKGD	12	< BKGD	17	< BKGD		
		6	< BKGD						
		7	< BKGD						

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

RCA – RADIATION CONTROL AREA AA – AIRBORNE AREA

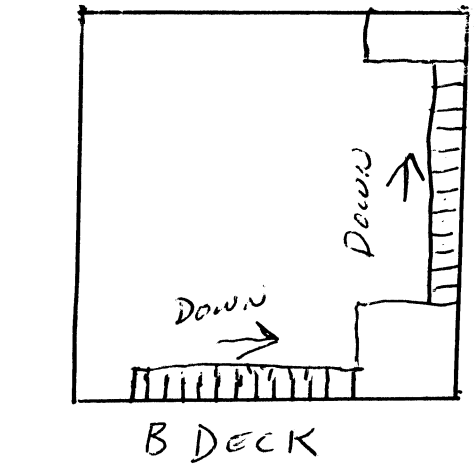
N.S. SAVANNAH
RADIOLOGICAL SURVEY

NSS-01 SURVEY NO. NSS-0039

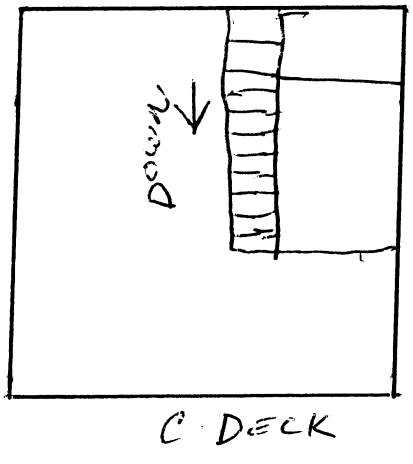
Date 3/31/05 Time	DOSE RATE	CONTAMINATION	
Surveyor Craddock	Inst. Type LUDLUM	Beta ✓ Alpha ____	Beta ____ Alpha ____
Signature Craddock	Serial No. 95499	Inst.Sn 97416	
Reviewed	β⁻ Factor	Eff. 10%	
	2.5 ~~2.3~~ mR/~~HR~~	Bkg. 30 cpm	cpm

AREA B DECK TO C DECK ACCESS STAIRWELL TO BOAT DECK THRU MACHINERY CASING SPACE FROM MAIN MACHINERY RM

COMPONENT



B DECK



C DECK

SWIPES
18. TOP STEP ~~TO~~ OGRV. TK
19. 3RD STEP FROM BOTTOM OF BDK.
20. LANDING B DECK
21. ~~LO~~ LO V/V VALVE

SWIPES
22. HAND RAIL STRB
23. HAND RAIL PORT
24. BOTTOM STEP C'D''

STAIRWAY
B DECK

STAIRWAY
C DECK

SMEAR RESULTS ~~IN DPM/100 CM²~~ ~~B = BETA in mRAD/hr/100 CM²~~

NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS
18	<BKGD			22	<BKGD				
19	<BKGD			23	<BKGD				
20	<BKGD			24	<BKGD				
21	<BKGD								

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

RCA – RADIATION CONTROL AREA AA – AIRBORNE AREA

N.S. SAVANNAH
RADIOLOGICAL SURVEY

NSS-01 SURVEY NO. NSS-0040

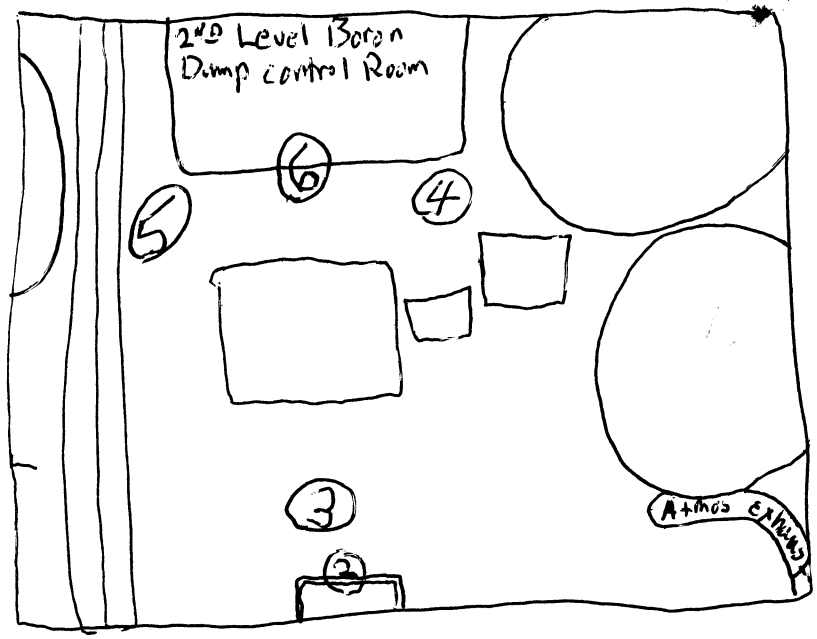
Date 3-31-05 Time 0930	DOSE RATE	CONTAMINATION	
Surveyor Loman Scott	Inst. Type Ludlum 19	Beta ✓ Alpha____	Beta____ Alpha____
Signature Loman Scott	Serial No. 42972	Inst.Sn 91037	
Reviewed [signature]	~~β Factor~~	Eff. 10%	
	BKG 4 μR/hr	Bkg. 40 cpm	cpm

AREA Behind Bridge

COMPONENT Boron Dump Controll Room

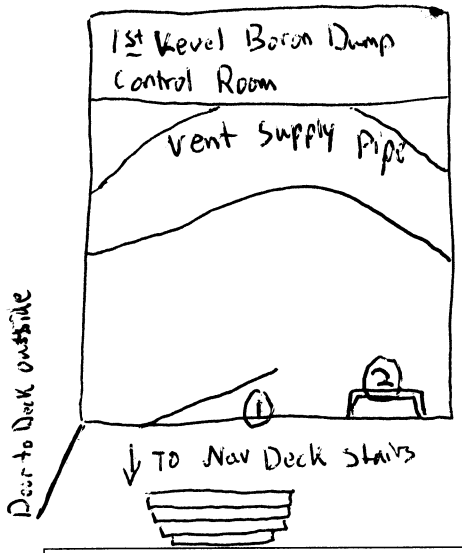
~~#1 threshold~~ ~~FHS~~
~~#2 LADDER~~ ~~FHS~~
P

FRSK < 100
DM < 40



1. Threshold of door
2. Rung of stairs down to Second Level of control Room

#6 Honeywell machinery controlls



SMEAR RESULTS ~~IN DPM/100 CM²~~ ~~B = BETA in mRAD/hr/100 CM²~~

NO.	RESULTS	N O.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS
1	< BKGD								
2	< BKGD								
3	< BKGD								
4	< BKGD								
5	< BKGD								
6	< BKGD								

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

RCA – RADIATION CONTROL AREA AA – AIRBORNE AREA

N.S. SAVANNAH
RADIOLOGICAL SURVEY

#1

NSS-01

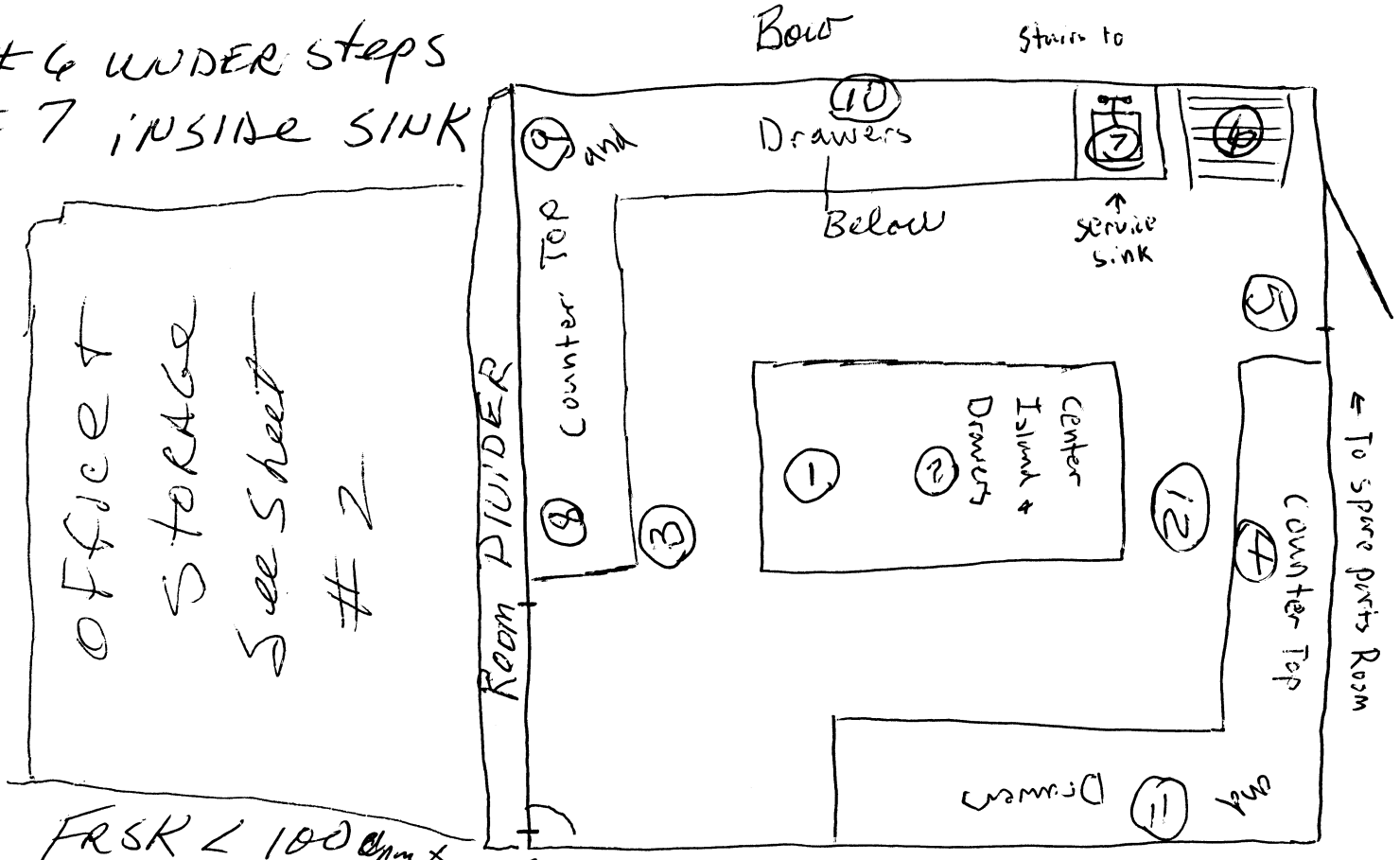
SURVEY NO. NSS-0041

Date 3/3/05 Time 1300	DOSE RATE	CONTAMINATION	
Surveyor Lemar Scott	Inst. Type Ludlum 19	Beta ✓ Alpha ____	Beta ____ Alpha ____
Signature Lemar Scott	Serial No. 42972	Inst.Sn 91037	
Reviewed Robert Smith	~~β Factor~~	Eff. 10 %	
	BRG 1 MR/Hr	Bkg. 10 cpm	cpm

AREA HOLD #5 ENGINEERING (Workstation)

COMPONENT Workshop

#6 UNDER steps
#7 INSIDE SINK



FRSK < 100 cpm Fixed Rad
DM ≤ 1 μR/hr

SMEAR RESULTS ~~IN DPM/100 CM²~~ ~~B = BETA in mRAD/hr/100 CM²~~

NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS
1	< BKGD	9	< BKGD						
2	< BKGD	10	< BKGD						
3	< BKGD	11	< BKGD						
4	< BKGD	12	< BKGD						
5	< BKGD								
6	< BKGD								
7	< BKGD								
8	< BKGD								

RA – RADIATION AREA
CA – CONTAMINATION AREA
ALL DOSE RATES IN μrem/hr
RCA – RADIATION CONTROL AREA
AA – AIRBORNE AREA

#2

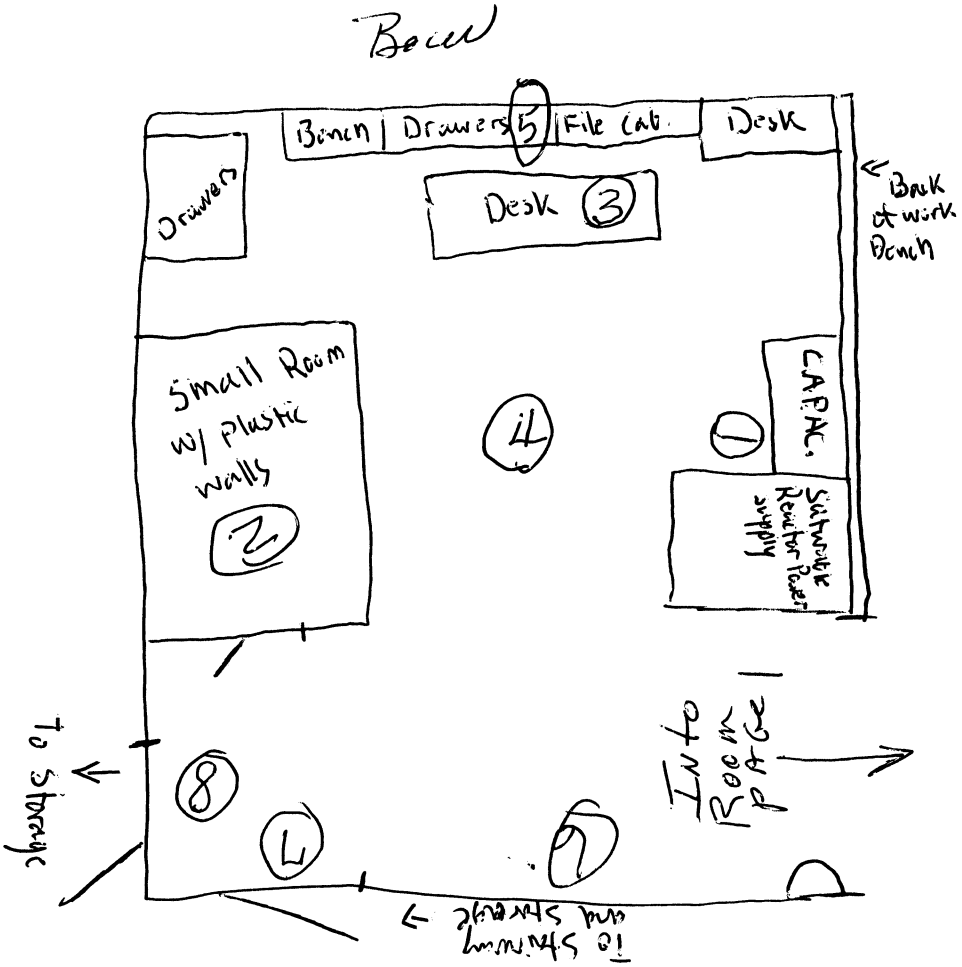
N.S. SAVANNAH
RADIOLOGICAL SURVEY

NSS-01 SURVEY NO. NSS-0041

Date 3-31-05 Time 1300	DOSE RATE	CONTAMINATION	
Surveyor Lyman Scott	Inst. Type LUD/Lum 19	Beta ✓ Alpha ____	Beta ____ Alpha ____
Signature Lyman Scott	Serial No. 42972	Inst. Sn 91037	
Reviewed Robert Kennedy	~~β Factor~~	Eff. 10 %	
	BKG in MR/Hr	Bkg. 10 cpm	cpm

AREA Hold #5 Engineering (office and storage)

COMPONENT M-S ED/A EQUIPT Room



FRSK < 100 cpm
DM < 1 µR/h

SMEAR RESULTS ~~dN DPM/100 CM²~~ ~~B = BETA in mRAD/hr/100 CM²~~

NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS
1	< BKGD								
2	< BKGD								
3	< BKGD								
4	< BKGD								
5	< BKGD								
6	< BKGD								
7	< BKGD								
8	< BKGD								

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

RCA – RADIATION CONTROL AREA AA – AIRBORNE AREA

N.S. SAVANNAH

RADIOLOGICAL SURVEY

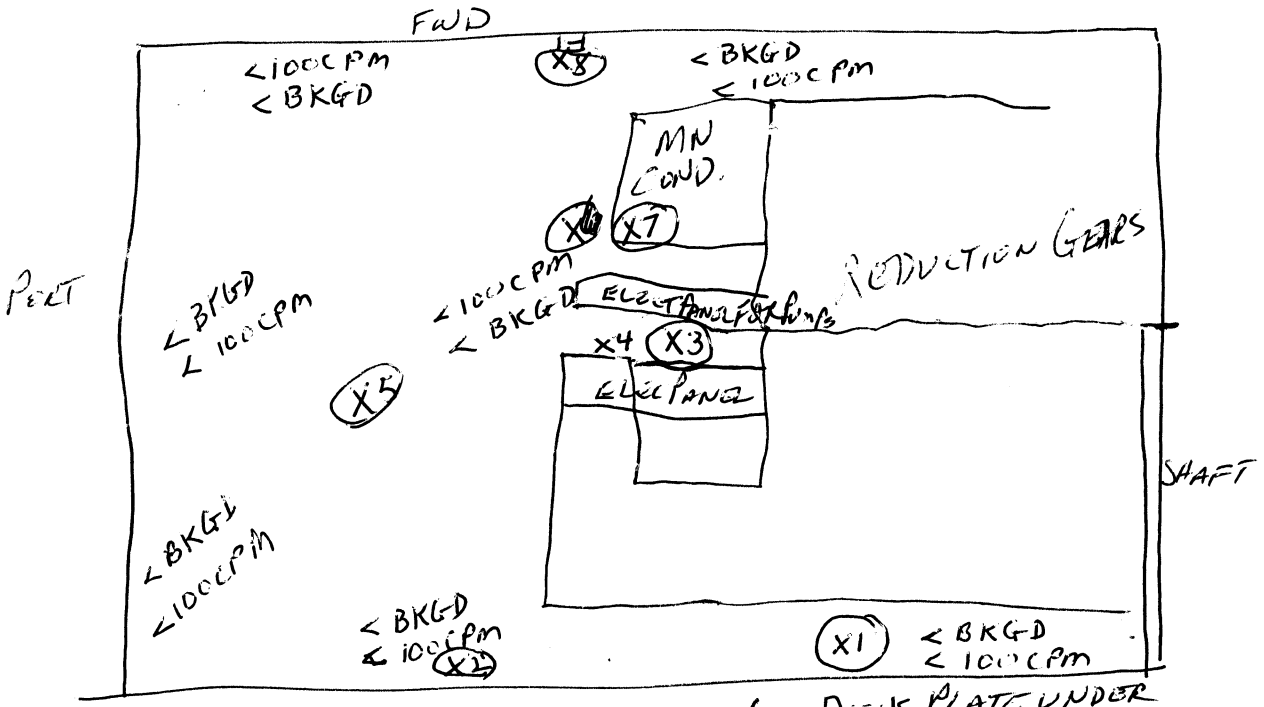
NSS-01

SURVEY NO. NSS-0042

Date 3/31/05 Time 13:00	DOSE RATE	CONTAMINATION	
Surveyor Caddock	Inst. Type LUDLUM	Beta ✓ Alpha ____	Beta ____ Alpha ____
Signature J. Caddock	Serial No. 95499	Inst.Sn 97416	
Reviewed Rob Tillman	β Factor	Eff. 10%	
	4mR/HR	Bkg. 30 cpm	cpm

AREA LOWER LEVEL MAIN ENGINE RM. PORT SIDE OF SHAFT

COMPONENT



SWIPE

1 DECK PLATE AFT PORT OF SHAFT
2 DECK PLATE AFT FIRE & BILGE PUMP PORTSIDE
3 DECK PLATE AFT ELECT PANELS FOR CHG PUMPS
4 HAND HOLD ON PORT FEED PUMP
5 DECK PLATE UNDER RED TAG #4
6. DECK PLATE UNDER MN CONDENSOR OPENING
7. MAN WAY OPENING MN COND.
8. DECK PLATE TOP OF STEPS TO PORT CHARGE RM

X-DENOTES SWIPE

SMEAR RESULTS ~~IN DPM/100 CM²~~ ~~B = BETA in mRAD/hr/100 CM²~~

NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS	NO.	RESULTS
1	<BKG								
2	<BKG								
3	<BKG								
4	<BKG								
5	<BKG								
6	<BKG								
7	<BKG								
8	<BKG								

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

RCA – RADIATION CONTROL AREA AA – AIRBORNE AREA