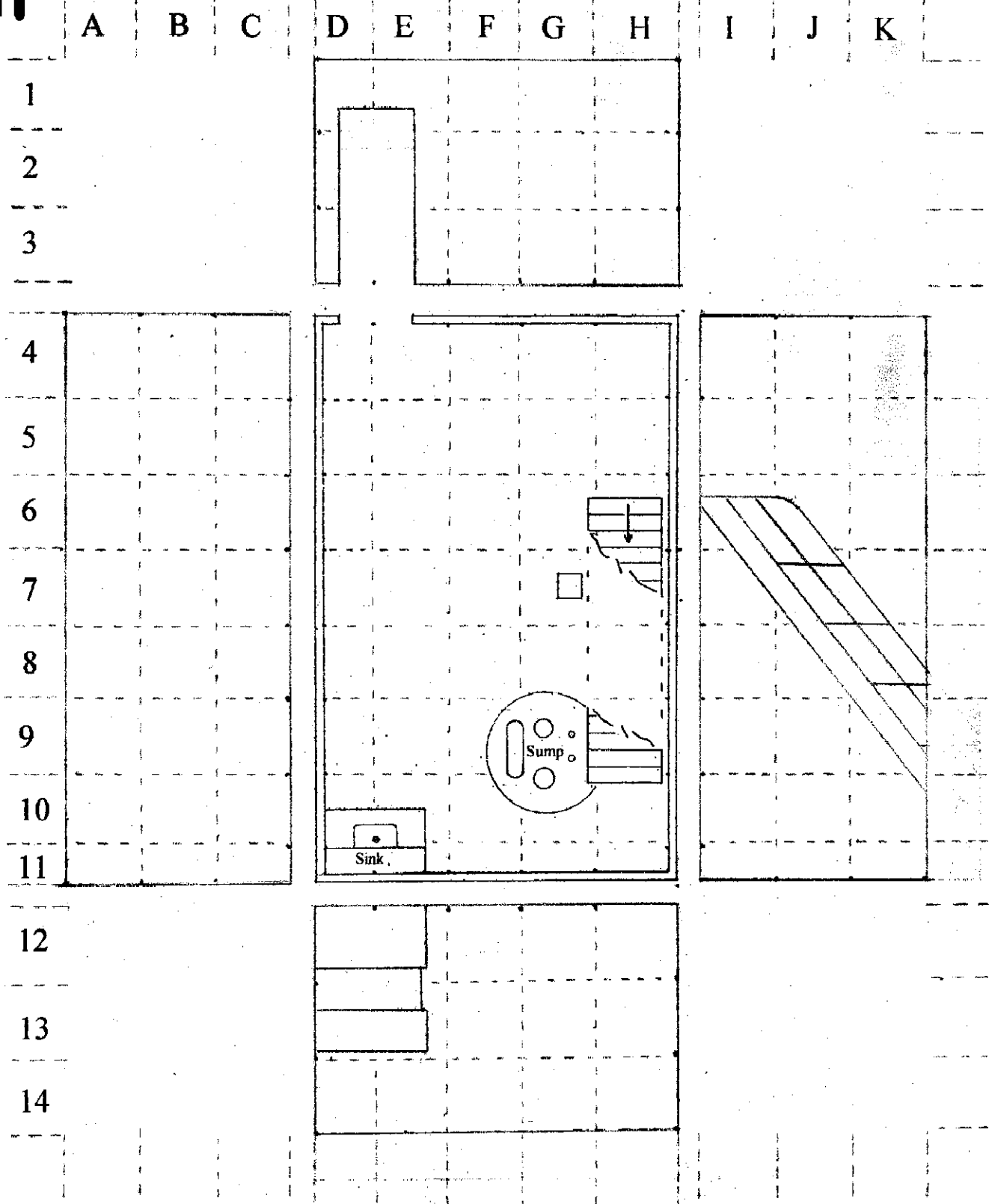


Appendix K

Room 01 Final Status Survey Data

Room 01 Grid Map



Grids are 1 Meter by 1 Meter

RADIOLOGICAL SURVEY
SIGN TEST FORM

Survey Location: Walter Reed AIR		Instrument: Model 2224		DCGL _m dpm/100cm ² : 1,500		
Survey Unit: Room 01		SN: 143040				
Survey Unit Classification: Class 3		Detector: Model 43-37				
Survey Unit Size in Meters ² : 118		SN: 128623				
Date: 08/16/2000		Det Size in cm ² : 425				
Time: 0800		Cal Due Date: 06/03/2001				
Surveyor: Gary Nason, Nancy Morey		Bkg Time: 1		Minutes		
Reviewed by: Dan Spicuzza		Sample Count Time: 1		Minutes		
Type of Survey: Beta-Gamma Scan and Direct Measurement Survey of Floor		Surface Efficiency: 0.8				
		Surveyor Efficiency Factor: 0.5				
		Daily Bkg α: 4		CPM		
		Daily Bkg βγ: 1000		CPM		
		Efficiency α: 0.8				
		Efficiency βγ: 0.1				
		L _α : 4.7		CPM		
		L _{βγ} : 12.3		CPM		
		Direct Measurement MDC α: 4.5		dpm/100cm ²		
		S _α : 1.69				
		B _α : 0.27				
		Scan MDCR α: 25.4		CPM		
		Scan MDC α: 13.2		dpm/100cm ²		
		L _{αβγ} : 73.7		CPM		
		L _{βγ} : 150.0		CPM		
		Direct Measurement MDC βγ: 441.3		dpm/100cm ²		
		S _{βγ} : 26.78				
		B _{βγ} : 66.67				
		Scan MDCR βγ: 402		CPM		
		Scan MDC βγ: 1670.9		dpm/100cm ²		
Survey Data Location	Scan Survey Results CPM	Scan Survey Results DPM/100cm ²	Direct Measurement Reading CPM	Direct Measurement Reading DPM/100cm ²	DCGL _m - Data DPM/100cm ²	Sign
D-4	1000	0.00	1032	80.00	1,420	1
E-4	1000	0.00	1002	5.00	1,495	1
F-4	1000	0.00	1043	107.50	1,393	1
G-4	1000	0.00	1030	75.00	1,425	1
H-4	1000	0.00	1021	52.50	1,448	1
D-5	1100	250.00	1007	17.50	1,483	1
E-5	1000	0.00	1014	35.00	1,465	1
F-5	1000	0.00	1029	72.50	1,428	1
G-5	1000	0.00	1040	100.00	1,400	1
H-5	1000	0.00	1019	47.50	1,453	1
D-6	1000	0.00	1020	50.00	1,450	1
E-6	1000	0.00	1022	55.00	1,445	1
F-6	1000	0.00	1032	80.00	1,420	1
G-6	1100	250.00	1007	17.50	1,483	1
H-6	1000	0.00	1002	5.00	1,495	1
D-7	1000	0.00	1001	2.50	1,498	1
E-7	1000	0.00	998	-5.00	1,505	1
F-7	1100	250.00	1121	302.50	1,198	1
G-7	1100	250.00	1004	10.00	1,490	1
H-7	1000	0.00	1089	222.50	1,278	1
D-8	1000	0.00	1005	12.50	1,488	1
E-8	1000	0.00	1008	20.00	1,480	1
F-8	1100	250.00	1029	72.50	1,428	1
G-8	1000	0.00	1001	2.50	1,498	1
H-8	1000	0.00	1008	20.00	1,480	1
D-9	1000	0.00	1027	67.50	1,433	1
E-9	1000	0.00	1006	15.00	1,485	1
F-9	1000	0.00	1023	57.50	1,443	1
G-9	1000	0.00	1031	77.50	1,423	1
H-9	1000	0.00	1012	30.00	1,470	1
D-10	1100	250.00	1097	242.50	1,258	1
E-10	1000	0.00	1084	210.00	1,290	1
F-10	1000	0.00	1031	77.50	1,423	1
G-10	1000	0.00	1071	177.50	1,323	1
H-10	1000	0.00	1020	50.00	1,450	1
D-11	1000	0.00	1002	5.00	1,495	1
E-11	1000	0.00	1019	47.50	1,453	1
F-11	1000	0.00	1005	12.50	1,488	1
G-11	1100	250.00	1083	207.50	1,293	1
H-11	1000	0.00	1057	142.50	1,358	1
Remarks: Micro/hr readings at 1 meter from surfaces of all grids is 4 μR/hr		Critical Value: 10		Number of positive differences S* = 40		
Model 19 S/N: 133178		Standard Deviation = 75.34		Number of Required Date Points: 14		
Grids are 1 m by 1 m		Mean Value = 72.00		Sign P: 1.0		
		Median = 51.25		LBGR: 750		
				Δα: 9.95		

RADIOLOGICAL SURVEY
SIGN TEST FORM

Survey Location: Walter Reed AIR		Instrument: Model 2224		DCGL _m dpm/100cm ² : 100		
Survey Unit: Room 01		SN: 143040				
Survey Unit Classification: Class 3		Detector: Model 43-37				
Survey Unit Size in Meters ² : 118		SN: 128623				
Date: 08/16/2000		Det Size in cm ² : 425				
Time: 1130		Cal Due Date: 06/03/2001				
Surveyor: Gary Nason, Nancy Morey		Bkg Time: 1		Minutes		
Reviewed by: Dan Spicuzza		Sample Count Time: 1		Minutes		
Type of Survey: Alpha Scan and Direct Measurement Survey of Floor		Surface Efficiency: 0.6				
		Surveyor Efficiency Factor: 0.5				
		Daily Bkg α: 4		CPM		
		Daily Bkg βγ: 1000		CPM		
		Efficiency α: 0.8				
		Efficiency βγ: 0.1				
		L _α : 4.7		CPM		
		L _{βγ} : 12.3		CPM		
		Direct Measurement MDC α: 6.0		dpm/100cm ²		
		S _α : 1.69				
		B _α : 0.27				
		Scan MDCR α: 25.4		CPM		
		Scan MDC α: 17.6		dpm/100cm ²		
		L _{αβγ} : 73.7		CPM		
		L _{βγ} : 150.0		CPM		
		Direct Measurement MDC βγ: 588.4		dpm/100cm ²		
		S _{βγ} : 26.78				
		B _{βγ} : 66.67				
		Scan MDCR βγ: 402		CPM		
		Scan MDC βγ: 2227.9		dpm/100cm ²		
Survey Data Location	Scan Survey Results CPM	Scan Survey Results DPM/100cm ²	Direct Measurement Reading CPM	Direct Measurement Reading DPM/100cm ²	DCGL _m - Data DPM/100cm ²	Sign
D-4	5	0.00	8	9.38	91	1
E-4	10	15.63	11	18.75	81	1
F-4	5	0.00	7	6.25	94	1
G-4	10	15.63	11	18.75	81	1
H-4	5	0.00	6	3.13	97	1
D-5	10	15.63	12	21.88	78	1
E-5	5	0.00	7	6.25	94	1
F-5	10	15.63	9	12.50	88	1
G-5	10	15.63	11	18.75	81	1
H-5	5	0.00	7	6.25	94	1
D-6	5	0.00	8	9.38	91	1
E-6	5	0.00	6	3.13	97	1
F-6	5	0.00	6	3.13	97	1
G-6	5	0.00	4	-3.13	103	1
H-6	10	15.63	13	25.00	75	1
D-7	5	0.00	6	3.13	97	1
E-7	5	0.00	5	0.00	100	1
F-7	10	15.63	14	28.13	72	1
G-7	10	15.63	13	25.00	75	1
H-7	10	15.63	11	18.75	81	1
D-8	10	15.63	13	25.00	75	1
E-8	10	15.63	12	21.88	78	1
F-8	5	0.00	8	9.38	91	1
G-8	10	15.63	9	12.50	88	1
H-8	10	15.63	13	25.00	75	1
D-9	10	15.63	8	9.38	91	1
E-9	10	15.63	12	21.88	78	1
F-9	10	15.63	14	28.13	72	1
G-9	5	0.00	7	6.25	94	1
H-9	5	0.00	8	9.38	91	1
D-10	10	15.63	6	3.13	97	1
E-10	10	15.63	11	18.75	81	1
F-10	5	0.00	8	9.38	91	1
G-10	10	15.63	12	21.88	78	1
H-10	5	0.00	6	3.13	97	1
D-11	5	0.00	8	9.38	91	1
E-11	5	0.00	6	3.13	97	1
F-11	10	15.63	14	28.13	72	1
G-11	5	0.00	7	6.25	94	1
H-11	10	15.63	9	12.50	88	1
Remarks: Micro/hr readings at 1 meter from surfaces of all grids is 4 μR/hr		Critical Value =	10	Number of positive differences S* =	40	
Model 19 S/N: 133178		Standard Deviation =	9.02	Number of Required Data Points:	14	
Grids are 1 m by 1 m		Mean Value =	12.97	Sign P:	1.0	
		Median =	9.375	LBGR:	100	
				Δα:	5.54	

RADIOLOGICAL SURVEY
SIGN TEST FORM

Survey Location:	Walter Reed AIR		Instrument:	Model 2224		
Survey Unit:	Room 01		SN:	143048	DCGL _w dpm/100cm ² :	1,500
Survey Unit Classification:	Class 3		Detector:	Model 43-68		
Survey Unit Size in Meters ² :	118		SN:	147960		
Date:	08/16/2000		Det Size in cm ² :	125		
Time:	1400		Cal Due Date:	06/03/2001		
Surveyor:	Gary Nason, Nancy Morey		Bkg Time:	1	Minutes	
Reviewed by:	Dan Spicuzza		Sample Count Time:	1	Minutes	
Type of Survey:	Beta-Gamma Scan and Direct Measurement Survey of Walls		Surface Efficiency:	0.8		
			Surveyor Efficiency Factor:	0.5		
			Daily Bkg α:	4	CPM	
			Daily Bkg βγ:	150	CPM	
			Efficiency α:	0.8		
			Efficiency βγ:	0.12		
			L _C α:	4.7	CPM	
			L _D α:	12.3	CPM	
			Direct Measurement MDC α:	15.4	dpm/100cm ²	
			S _α :	1.69		
			B _α :	0.27		
			Scan MDCR α:	25.4	CPM	
			Scan MDC α:	44.9	dpm/100cm ²	
			L _C βγ:	28.5	CPM	
			L _D βγ:	60.0	CPM	
			Direct Measurement MDC βγ:	499.6	dpm/100cm ²	
			S _{βγ} :	10.37		
			B _{βγ} :	10.00		
			Scan MDCR βγ:	156	CPM	
			Scan MDC βγ:	1833.6	dpm/100cm ²	
Survey Data Location	Scan Survey Results CPM	Scan Survey Results DPM/100cm ²	Direct Measurement Reading CPM	Direct Measurement Reading DPM/100cm ²	DCGL _w - Data DPM/100cm ²	Sign
D-14	190	266.67	198	320.00	1,180	1
E-14	200	333.33	204	360.00	1,140	1
F-14	190	266.67	195	300.00	1,200	1
G-14	180	200.00	189	260.00	1,240	1
H-14	190	266.67	193	286.67	1,213	1
D-13	190	266.67	200	333.33	1,167	1
E-13	200	333.33	206	373.33	1,127	1
F-13	190	266.67	194	293.33	1,207	1
G-13	200	333.33	201	340.00	1,160	1
H-13	190	266.67	195	300.00	1,200	1
D-12	200	333.33	198	320.00	1,180	1
E-12	180	200.00	188	253.33	1,247	1
F-12	200	333.33	208	386.67	1,113	1
G-12	190	266.67	196	306.67	1,193	1
H-12	190	266.67	198	320.00	1,180	1
A-11	200	333.33	206	373.33	1,127	1
B-11	190	266.67	196	306.67	1,193	1
C-11	200	333.33	202	346.67	1,153	1
I-11	190	266.67	194	293.33	1,207	1
J-11	200	333.33	209	393.33	1,107	1
K-11	190	266.67	197	313.33	1,187	1
A-10	220	466.67	225	500.00	1,000	1
B-10	200	333.33	207	380.00	1,120	1
C-10	210	400.00	215	433.33	1,067	1
I-10	210	400.00	219	460.00	1,040	1
J-10	190	266.67	193	286.67	1,213	1
K-10	210	400.00	208	386.67	1,113	1
A-9	190	266.67	199	326.67	1,173	1
B-9	200	333.33	204	360.00	1,140	1
C-9	200	333.33	209	393.33	1,107	1
I-9	190	266.67	193	286.67	1,213	1
J-9	200	333.33	208	386.67	1,113	1
K-9	200	333.33	211	406.67	1,093	1
A-8	190	266.67	192	280.00	1,220	1
B-8	210	400.00	217	446.67	1,053	1
C-8	220	466.67	225	500.00	1,000	1
I-8	200	333.33	207	380.00	1,120	1
J-8	200	333.33	204	360.00	1,140	1
K-8	210	400.00	212	413.33	1,087	1
A-7	210	400.00	218	453.33	1,047	1
B-7	220	466.67	214	426.67	1,073	1
C-7	200	333.33	209	393.33	1,107	1
I-7	210	400.00	216	440.00	1,060	1
J-7	210	400.00	209	393.33	1,107	1

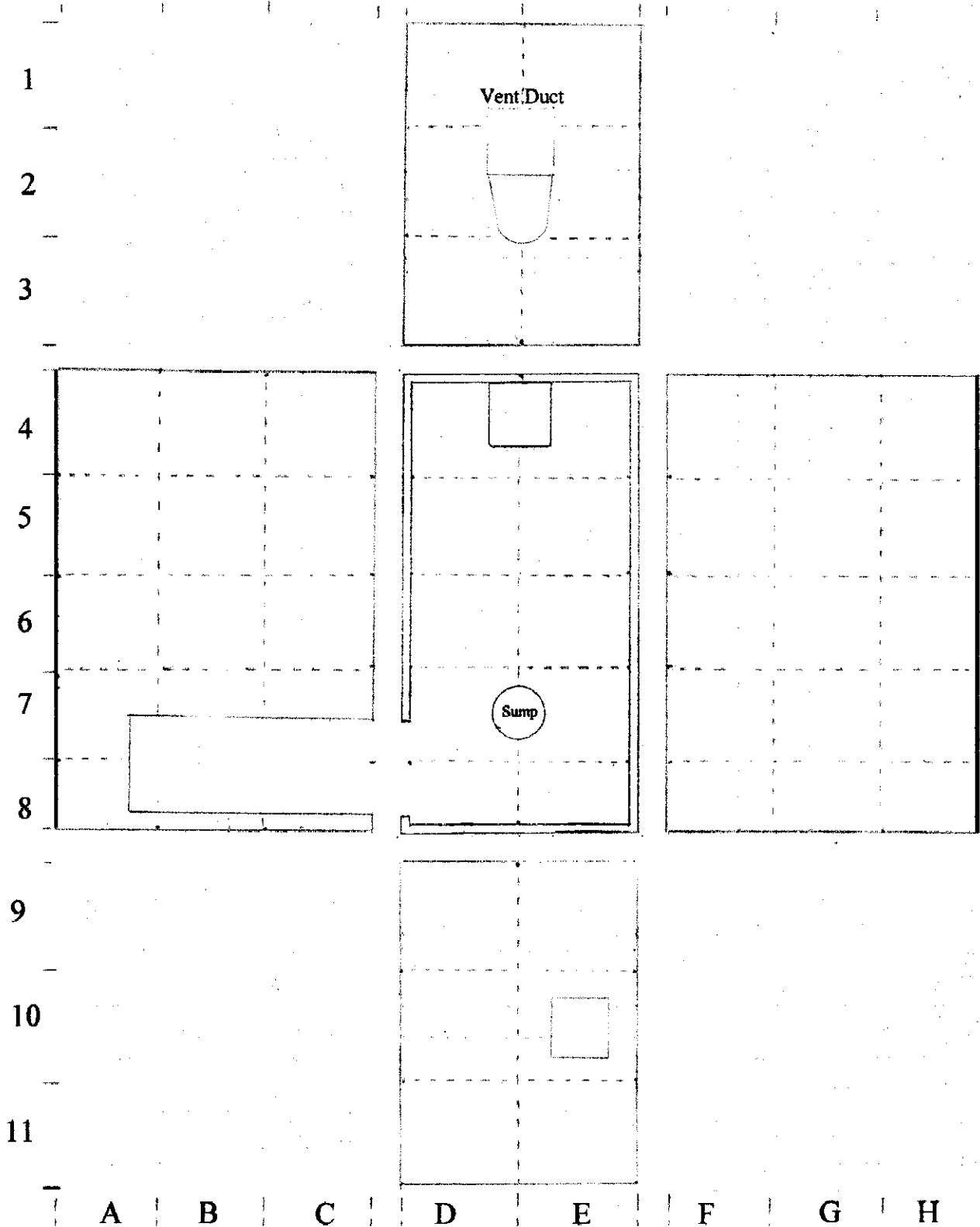
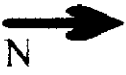
RADIOLOGICAL SURVEY
SIGN TEST FORM

Survey Location:	Walter Reed AIR		Instrument:	Model 2224		
Survey Unit:	Room 01		SN:	143048	DCGL _w dpm/100cm ² :	1,500
Survey Unit Classification:	Class 3		Detector:	Model 43-68		
Survey Unit Size in Meters ² :	118		SN:	147960		
Date:	08/16/2000		Det Size in cm ² :	125		
Time:	1400		Cal Due Date:	06/03/2001		
Surveyor:	Gary Nason, Nancy Morey		Bkg Time:	1	Minutes	
Reviewed by:	Dan Spicuzza		Sample Count Time:	1	Minutes	
Type of Survey:	Beta-Gamma Scan and Direct Measurement Survey of Walls		Surface Efficiency:	0.8		
			Surveyor Efficiency Factor:	0.5		
			Daily Bkg α:	4	CPM	
			Daily Bkg βγ:	150	CPM	
			Efficiency α:	0.8		
			Efficiency βγ:	0.12		
			L _C α:	4.7	CPM	
			L _D α:	12.3	CPM	
			Direct Measurement MDC α:	15.4	dpm/100cm ²	
			S _{iq} :	1.69		
			B _{iq} :	0.27		
			Scan MDCR α:	25.4	CPM	
			Scan MDC α:	44.9	dpm/100cm ²	
			L _C βγ:	28.5	CPM	
			L _D βγ:	60.0	CPM	
			Direct Measurement MDC βγ:	499.6	dpm/100cm ²	
			S _{βγ} :	10.37		
			B _{βγ} :	10.00		
			Scan MDCR βγ:	156	CPM	
			Scan MDC βγ:	1833.6	dpm/100cm ²	
K-7	220	466.67	226	506.67	993	1
A-6	190	266.67	196	306.67	1,193	1
B-6	210	400.00	218	453.33	1,047	1
C-6	200	333.33	209	393.33	1,107	1
I-6	200	333.33	208	386.67	1,113	1
J-6	190	266.67	201	340.00	1,160	1
K-6	200	333.33	206	373.33	1,127	1
A-5	200	333.33	208	386.67	1,113	1
B-5	220	466.67	229	526.67	973	1
C-5	220	466.67	224	493.33	1,007	1
I-5	190	266.67	196	306.67	1,193	1
J-5	230	533.33	232	546.67	953	1
K-5	220	466.67	226	506.67	993	1
A-4	210	400.00	218	453.33	1,047	1
B-4	210	400.00	208	386.67	1,113	1
C-4	230	533.33	239	593.33	907	1
I-4	220	466.67	218	453.33	1,047	1
J-4	230	533.33	233	553.33	947	1
K-4	220	466.67	221	473.33	1,027	1
D-3	210	400.00	218	453.33	1,047	1
E-3	200	333.33	205	366.67	1,133	1
F-3	210	400.00	217	446.67	1,053	1
G-3	220	466.67	226	506.67	993	1
H-3	220	466.67	228	520.00	980	1
D-2	210	400.00	219	460.00	1,040	1
E-2	200	333.33	204	360.00	1,140	1
F-2	220	466.67	228	520.00	980	1
G-2	200	333.33	208	386.67	1,113	1
H-2	210	400.00	219	460.00	1,040	1
D-1	240	600.00	242	613.33	887	1
E-1	220	466.67	224	493.33	1,007	1
F-1	210	400.00	215	433.33	1,067	1
G-1	210	400.00	211	406.67	1,093	1
H-1	220	466.67	224	493.33	1,007	1
Remarks: Micro/hr readings at 1 meter from surfaces of all grids is 4 μR/hr.			Critical Value:	10	Number of positive differences S+ =	78
Model 19 S/N:133178			Standard Deviation =	82.39	Number of Required Date Points:	14
Grids are 1 m by 1 m			Mean Value =	400.43	Sign P:	1.0
			Median =	386.67	LBGR:	750
					Δ/σ:	9.1

Appendix L

Room 04 Final Status Survey Data

Room 04 Grid Map



Grids are 1 Meter by 1 Meter

RADIOLOGICAL SURVEY
SIGN TEST FORM

Survey Location: Walter Reed AIR		Instrument: Model 2224				
Survey Unit: Room 04		SN: 143040		DCGL _w dpm/100cm ² : 1,500		
Survey Unit Classification: Class 3		Detector: Model 43-37				
Survey Unit Size in Meters ² : 62		SN: 128623				
Date: 08/14/2000		Det Size in cm ² : 425				
Time: 1130		Cal Due Date: 06/03/2001				
Surveyor: Gary Nason, Nancy Morey		Bkg Time: 1		Minutes		
Reviewed by: Dan Spicuzza		Sample Count Time: 1		Minutes		
Type of Survey: Beta-Gamma Scan and Direct Measurement Survey of Floor		Surface Efficiency: 0.8				
		Surveyor Efficiency Factor: 0.5				
		Daily Bkg α: 3		CPM		
		Daily Bkg β: 1000		CPM		
		Efficiency α: 0.8				
		Efficiency β: 0.1				
		L _C α: 4.0		CPM		
		L _D α: 11.1		CPM		
		Direct Measurement MDC α: 4.1		dpm/100cm ²		
		S _α : 1.47				
		B _α : 0.20				
		Scan MDCR α: 22.0		CPM		
		Scan MDC β: 11.4		dpm/100cm ²		
		L _C β: 73.7		CPM		
		L _D β: 150.0		CPM		
		Direct Measurement MDC β: 441.3		dpm/100cm ²		
		S _β : 26.78				
		B _β : 66.67				
		Scan MDCR β: 402		CPM		
		Scan MDC β: 1670.9		dpm/100cm ²		
Survey Data Location	Scan Survey Results CPM	Scan Survey Results DPM/100cm ²	Direct Measurement Reading CPM	Direct Measurement Reading DPM/100cm ²	DCGL _w - Data DPM/100cm ²	Sign
D-4	1000	0.00	1072	180.00	1,320	1
E-4	1000	0.00	1060	150.00	1,350	1
D-5	1000	0.00	1030	75.00	1,425	1
E-5	1000	0.00	1025	62.50	1,438	1
D-6	1000	0.00	1023	57.50	1,443	1
E-6	1000	0.00	1042	105.00	1,395	1
D-7	1000	0.00	1032	80.00	1,420	1
E-7	1000	0.00	1005	12.50	1,488	1
D-8	1000	0.00	1075	187.50	1,313	1
E-8	1000	0.00	1068	170.00	1,330	1
Remarks: Micro/hr readings at 1 meter from surfaces of all grids is 4 μR/hr. Model 19 S/N:133178 Grids are 1 m by 1 m		Critical Value: 10 Standard Deviation = 60.31 Mean Value = 108.00 Median = 92.5		Number of positive differences S+ = 42 Number of Required Data Points: 14 Sign P: 1.0 LBGR: 750 Δσ: 12.43		

RADIOLOGICAL SURVEY
SIGN TEST FORM

Survey Location: Walter Reed AIR		Instrument: Model 2224				
Survey Unit: Room 04		SN: 143040		DCGL _w dpm/100cm ² : 100		
Survey Unit Classification: Class 3		Detector: Model 43-37				
Survey Unit Size in Meters ² : 62		SN: 128623				
Date: 08/14/2000		Det Size in cm ² : 425				
Time: 1500		Cal Due Date: 06/03/2001				
Surveyor: Gary Nason, Nancy Morey		Bkg Time: 1		Minutes		
Reviewed by: Dan Spicuzza		Sample Count Time: 1		Minutes		
Type of Survey: Alpha Scan and Direct Measurement Survey of Floor		Surface Efficiency: 0.6				
		Surveyor Efficiency Factor: 0.5				
		Daily Bkg α: 5		CPM		
		Daily Bkg β _r : 1000		CPM		
		Efficiency α: 0.8				
		Efficiency β _r : 0.1				
		L _C α: 5.2		CPM		
		L _D α: 13.4		CPM		
		Direct Measurement MDC α: 6.6		dpm/100cm ²		
		S _{sc} : 1.89				
		B _{sc} : 0.33				
		Scan MDCR α: 28.4		CPM		
		Scan MDC α: 19.7		dpm/100cm ²		
		L _C β _r : 73.7		CPM		
		L _D β _r : 150.0		CPM		
		Direct Measurement MDC β _r : 588.4		dpm/100cm ²		
		S _{β_r} : 26.78				
		B _{β_r} : 66.67				
		Scan MDCR β _r : 402		CPM		
		Scan MDC β _r : 2227.9		dpm/100cm ²		
Survey Data Location	Scan Survey Results CPM	Scan Survey Results DPM/100cm ²	Direct Measurement Reading CPM	Direct Measurement Reading DPM/100cm ²	DCGL _w - Data DPM/100cm ²	Sign
D-4	5	6.25	6	9.38	91	1
E-4	9	18.75	10	21.88	78	1
D-5	9	18.75	11	25.00	75	1
E-5	9	18.75	10	21.88	78	1
D-6	5	6.25	8	15.63	84	1
E-6	8	15.63	10	21.88	78	1
D-7	5	6.25	6	9.38	91	1
E-7	7	12.50	8	15.63	84	1
D-8	3	0.00	6	9.38	91	1
E-8	10	21.88	10	21.88	78	1
Remarks:		Critical Value: 10		Number of positive differences S+ = 10		
		Standard Deviation = 6.12		Number of Required Data Points: 14		
		Mean Value = 17.19		Sign P: 1.0		
		Median = 18.75		LBGR: 50		
				Δσ: 8.17		

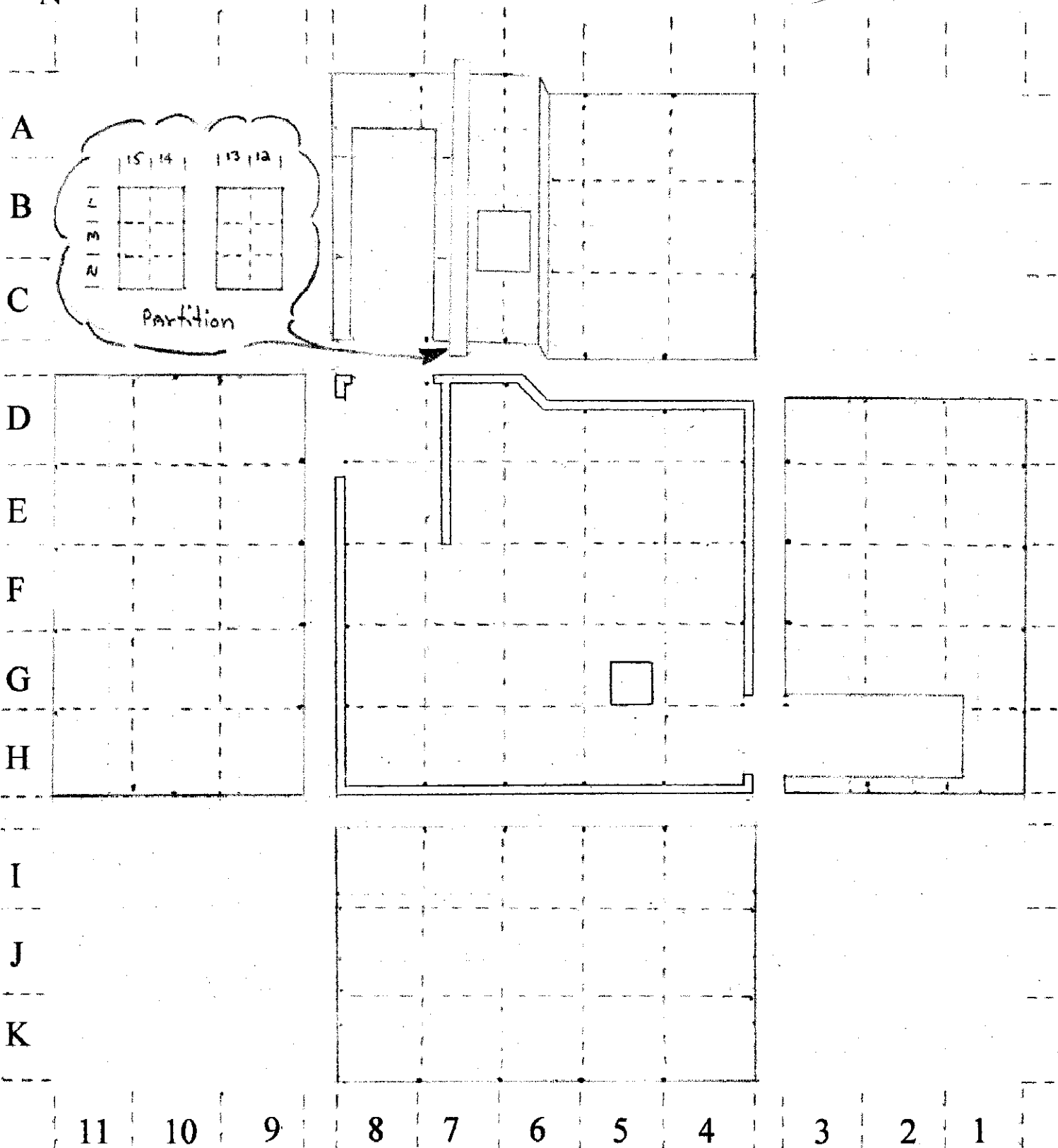
RADIOLOGICAL SURVEY
SIGN TEST FORM

Survey Location:		Walter Reed AIR		Instrument:		Model 2224						
Survey Unit:		Room 04		SN:		143048		DCGL _w dpm/100cm ² :		1,500		
Survey Unit Classification:		Class 3		Detector:		Model 43-68						
Survey Unit Size in Meters ² :		62		SN:		147960						
Date:		08/14/2000		Det Size in cm ² :		125						
Time:		0800		Cal Due Date:		06/03/2001						
Surveyor:		Gary Nason, Nancy Morey		Bkg Time:		1		Minutes				
Reviewed by:		Dan Spicuzza		Sample Count Time:		1		Minutes				
Type of Survey:		Beta-Gamma Scan and Direct Measurement Survey of Walls		Surface Efficiency:		0.8						
				Surveyor Efficiency Factor:		0.5						
				Daily Bkg α:		5		CPM				
				Daily Bkg βγ:		150		CPM				
				Efficiency α:		0.09						
				Efficiency βγ:		0.12						
				L _C α:		5.2		CPM				
				L _D α:		13.4		CPM				
				Direct Measurement MDC α:		148.9		dpm/100cm ²				
				S _{int} :		1.89						
				B _{int} :		0.33						
				Scan MDCR α:		28.4		CPM				
				Scan MDC α:		446.4		dpm/100cm ²				
				L _C βγ:		28.5		CPM				
				L _D βγ:		60.0		CPM				
				Direct Measurement MDC βγ:		499.6		dpm/100cm ²				
				S _{βγ} :		10.37						
				B _{βγ} :		10.00						
				Scan MDCR βγ:		156		CPM				
				Scan MDC βγ:		1833.6		dpm/100cm ²				
Survey Data Location		Scan Survey Results CPM		Scan Survey Results DPM/100cm ²		Direct Measurement Reading CPM		Direct Measurement Reading DPM/100cm ²		DCGL _w - Data DPM/100cm ²		Sign
A-8	205	366.67	201	340.00	1,160	1						
B-8	200	333.33	189	260.00	1,240	1						
C-8	210	400.00	198	320.00	1,180	1						
A-7	190	266.67	199	326.67	1,173	1						
B-7	180	200.00	187	246.67	1,253	1						
C-7	190	266.67	188	253.33	1,247	1						
A-6	210	400.00	200	333.33	1,167	1						
B-6	230	533.33	232	546.67	953	1						
C-6	210	400.00	195	300.00	1,200	1						
A-5	220	466.67	210	400.00	1,100	1						
B-5	220	466.67	218	453.33	1,047	1						
C-5	220	466.67	210	400.00	1,100	1						
A-4	210	400.00	212	413.33	1,087	1						
B-4	220	466.67	211	406.67	1,093	1						
C-4	220	466.67	220	466.67	1,033	1						
D-3	190	266.67	195	300.00	1,200	1						
E-3	190	266.67	186	240.00	1,260	1						
D-2	210	400.00	206	373.33	1,127	1						
E-2	210	400.00	208	386.67	1,113	1						
D-1	220	466.67	222	480.00	1,020	1						
E-1	190	266.67	198	320.00	1,180	1						
F-8	190	266.67	204	360.00	1,140	1						
G-8	180	200.00	201	340.00	1,160	1						
H-8	200	333.33	202	346.67	1,153	1						
F-7	190	266.67	208	386.67	1,113	1						
G-7	190	266.67	198	320.00	1,180	1						
H-7	200	333.33	209	393.33	1,107	1						
F-6	190	266.67	196	306.67	1,193	1						
G-6	180	200.00	190	266.67	1,233	1						
H-6	200	333.33	203	353.33	1,147	1						
F-5	190	266.67	191	273.33	1,227	1						
G-5	190	266.67	194	293.33	1,207	1						
H-5	200	333.33	203	353.33	1,147	1						
F-4	190	266.67	194	293.33	1,207	1						
G-4	200	333.33	192	280.00	1,220	1						
H-4	210	400.00	216	440.00	1,060	1						
D-9	210	400.00	212	413.33	1,087	1						
E-9	200	333.33	207	380.00	1,120	1						
D-10	190	266.67	194	293.33	1,207	1						
E-10	190	266.67	198	320.00	1,180	1						
D-11	200	333.33	205	366.67	1,133	1						
E-11	200	333.33	207	380.00	1,120	1						
Remarks: Micro/hr readings at 1 meter from surfaces of all grids is 4 μR/hr. Model 19 S/N:133178		Critical Value: 10		Number of positive differences S+ = 42								
		Standard Deviation = 68.18		Number of Required Date Points: 14								
		Mean Value = 350.63		Sign P: 1.0								
		Median = 343.33		LBGR: 750								
				Δ/g: 11								

Appendix M

Room 02-03 Final Status Survey Data

Room 02-03 Grid Map



Grids are 1 Meter by 1 Meter

RADIOLOGICAL SURVEY
SIGN TEST FORM

Survey Location:	Walter Reed AIR		Instrument:	Model 2224		
Survey Unit:	Room 02-03		SN:	143040	DCGL _w dpm/100cm ² :	1,500
Survey Unit Classification:	Class 2		Detector:	Model 43-37		
Survey Unit Size in Meters ² :	97		SN:	128623		
Date:	08/15/2000		Det Size in cm ² :	425		
Time:	0800		Cal Due Date:	06/03/2001		
Surveyor:	Gary Nason, Nancy Morey		Bkg Time:	1	Minutes	
Reviewed by:	Dan Spicuzza		Sample Count Time:	1	Minutes	
Type of Survey:	Beta-Gamma Scan and Direct Measurement Survey of Floor		Surface Efficiency:	0.8		
			Surveyor Efficiency Factor:	0.5		
			Daily Bkg α:	4	CPM	
			Daily Bkg βγ:	1000	CPM	
			Efficiency α:	0.8		
			Efficiency βγ:	0.1		
			L _C α:	4.7	CPM	
			L _D α:	12.3	CPM	
			Direct Measurement MDC α:	4.5	dpm/100cm ²	
			S _{int} :	1.69		
			B _{int} :	0.27		
			Scan MDCR α:	25.4	CPM	
			Scan MDC βγ:	13.2	dpm/100cm ²	
			L _C βγ:	73.7	CPM	
			L _D βγ:	150.0	CPM	
			Direct Measurement MDC βγ:	441.3	dpm/100cm ²	
			S _{βγ} :	26.78		
			B _{βγ} :	66.67		
			Scan MDCR βγ:	402	CPM	
			Scan MDC βγ:	1670.9	dpm/100cm ²	
Survey Data Location	Scan Survey Results CPM	Scan Survey Results DPM/100cm ²	Direct Measurement Reading CPM	Direct Measurement Reading DPM/100cm ²	DCGL _w - Data DPM/100cm ²	Sign
D-8	1600	1500.00	1684	1710.00	-210	-1
E-8	1100	250.00	1120	300.00	1,200	1
F-8	1100	250.00	1170	425.00	1,075	1
G-8	1100	250.00	1190	475.00	1,025	1
H-8	1100	250.00	1220	550.00	950	1
D-7	1100	250.00	1212	530.00	970	1
E-7	1000	0.00	1130	325.00	1,175	1
F-7	1000	0.00	1165	412.50	1,088	1
G-7	1000	0.00	1142	355.00	1,145	1
H-7	1000	0.00	1155	387.50	1,113	1
D-6	1100	250.00	1118	295.00	1,205	1
E-6	1100	250.00	1109	272.50	1,228	1
F-6	1000	0.00	1070	175.00	1,325	1
G-6	1000	0.00	1020	50.00	1,450	1
H-6	1100	250.00	1106	265.00	1,235	1
D-5	1000	0.00	1020	50.00	1,450	1
E-5	1000	0.00	1085	212.50	1,288	1
F-5	1000	0.00	1070	175.00	1,325	1
G-5	1000	0.00	1020	50.00	1,450	1
H-5	1100	250.00	1101	252.50	1,248	1
D-4	1000	0.00	1065	162.50	1,338	1
E-4	1000	0.00	1032	80.00	1,420	1
F-4	1000	0.00	1042	105.00	1,395	1
G-4	1100	250.00	1098	245.00	1,255	1
H-4	1100	250.00	1110	275.00	1,225	1
Remarks: Micro/hr readings at 1 meter from surfaces of all grids is 4 μR/hr.		Critical Value =	11	Number of positive differences S+ =	24	
Model 19 S/N:133178		Standard Deviation =	322.57	Number of Required Date Points:	15	
Grids are 1 m by 1 m		Mean Value =	325.40	Sign P:	0.993970	
		Median =	272.5	LBGR:	750	
				Δσ:	2.32	

RADIOLOGICAL SURVEY
SIGN TEST FORM

Survey Location:	Walter Reed AIR		Instrument:	Model 2224		
Survey Unit:	Room 02-03		SN:	143040	DCGL _w dpm/100cm ² :	100
Survey Unit Classification:	Class 2		Detector:	Model 43-37		
Survey Unit Size in Meters ² :	97		SN:	128623		
Date:	08/15/2000		Det Size in cm ² :	425		
Time:	1130		Cal Due Date:	06/03/2001		
Surveyor:	Gary Nason, Nancy Morey		Bkg Time:	1	Minutes	
Reviewed by:	Dan Spicuzza		Sample Count Time:	1	Minutes	
Type of Survey:	Alpha Scan and Direct Measurement Survey of Floor		Surface Efficiency:	0.6		
			Surveyor Efficiency Factor:	0.5		
			Daily Bkg α:	4	CPM	
			Daily Bkg βγ:	1000	CPM	
			Efficiency α:	0.8		
			Efficiency βγ:	0.1		
			L _C α:	4.7	CPM	
			L _D α:	12.3	CPM	
			Direct Measurement MDC α:	6.0	dpm/100cm ²	
			S _w :	1.69		
			B _w :	0.27		
			Scan MDCR α:	25.4	CPM	
			Scan MDC α:	17.6	dpm/100cm ²	
			L _C βγ:	73.7	CPM	
			L _D βγ:	150.0	CPM	
			Direct Measurement MDC βγ:	588.4	dpm/100cm ²	
			S _{βγ} :	26.78		
			B _{βγ} :	66.67		
			Scan MDCR βγ:	402	CPM	
			Scan MDC βγ:	2227.9	dpm/100cm ²	
Survey Data Location	Scan Survey Results CPM	Scan Survey Results DPM/100cm ²	Direct Measurement Reading CPM	Direct Measurement Reading DPM/100cm ²	DCGL _w - Data DPM/100cm ²	Sign
D-8	10	18.75	9	15.63	84	1
E-8	10	18.75	10	18.75	81	1
F-8	5	3.13	6	6.25	94	1
G-8	5	3.13	5	3.13	97	1
H-8	10	18.75	8	12.50	88	1
D-7	10	18.75	9	15.63	84	1
E-7	5	3.13	8	12.50	88	1
F-7	10	18.75	9	15.63	84	1
G-7	5	3.13	7	9.38	91	1
H-7	5	3.13	8	12.50	88	1
D-6	5	3.13	8	12.50	88	1
E-6	5	3.13	8	12.50	88	1
F-6	10	18.75	12	25.00	75	1
G-6	10	18.75	10	18.75	81	1
H-6	10	18.75	8	12.50	88	1
D-5	10	18.75	10	18.75	81	1
E-5	10	18.75	8	12.50	88	1
F-5	5	3.13	8	12.50	88	1
G-5	10	18.75	8	12.50	88	1
H-5	10	18.75	9	15.63	84	1
D-4	10	18.75	12	25.00	75	1
E-4	10	18.75	9	15.63	84	1
F-4	10	18.75	8	12.50	88	1
G-4	10	18.75	8	12.50	88	1
H-4	10	18.75	8	12.50	88	1
Remarks:			Critical Value:	10	Number of positive differences S+ =	25
			Standard Deviation =	4.78	Number of Required Data Points:	14
			Mean Value =	14.13	Sign P:	1.0
			Median =	12.5	LBGR:	750
					Δσ:	10.46

RADIOLOGICAL SURVEY
SIGN TEST FORM

Survey Location:	Walter Reed AIR		Instrument:	Model 2224		
Survey Unit:	Room 02-03		SN:	143048	DCGL _w dpm/100cm ² :	1,500
Survey Unit Classification:	Class 2		Detector:	Model 43-37		
Survey Unit Size in Meters ² :	97		SN:	147960		
Date:	08/15/2000		Det Size in cm ² :	125		
Time:	1430		Cal Due Date:	06/03/2001		
Surveyor:	Gary Nason, Nancy Morey		Bkg Time:	1	Minutes	
Reviewed by:	Dan Spicuzza		Sample Count Time:	1	Minutes	
Type of Survey:	Beta-Gamma Scan and Direct Measurement Survey of Walls		Surface Efficiency:	0.8		
			Surveyor Efficiency Factor:	0.5		
			Daily Bkg α:	4	CPM	
			Daily Bkg βγ:	150	CPM	
			Efficiency α:	0.8		
			Efficiency βγ:	0.12		
			L _C α:	4.7	CPM	
			L _D α:	12.3	CPM	
			Direct Measurement MDC α:	15.4	dpm/100cm ²	
			S _α :	1.69		
			B _α :	0.27		
			Scan MDCR α:	25.4	CPM	
			Scan MDC α:	44.9	dpm/100cm ²	
			L _C βγ:	28.5	CPM	
			L _D βγ:	60.0	CPM	
			Direct Measurement MDC βγ:	499.6	dpm/100cm ²	
			S _{βγ} :	10.37		
			B _{βγ} :	10.00		
			Scan MDCR βγ:	156	CPM	
			Scan MDC βγ:	1833.6	dpm/100cm ²	
Survey Data Location	Scan Survey Results CPM	Scan Survey Results DPM/100cm ²	Direct Measurement Reading CPM	Direct Measurement Reading DPM/100cm ²	DCGL _w - Data DPM/100cm ²	Sign
D-1	180	75.00	185	87.50	1,413	1
E-1	170	50.00	174	60.00	1,440	1
F-1	180	75.00	183	82.50	1,418	1
G-1	170	50.00	162	30.00	1,470	1
H-1	170	50.00	172	55.00	1,445	1
D-2	200	125.00	215	162.50	1,338	1
E-2	210	150.00	212	155.00	1,345	1
F-2	200	125.00	201	127.50	1,373	1
G-2	190	100.00	192	105.00	1,395	1
H-2	180	75.00	183	82.50	1,418	1
D-3	200	125.00	202	130.00	1,370	1
E-3	190	100.00	193	107.50	1,393	1
F-3	200	125.00	205	137.50	1,363	1
G-3	190	100.00	179	72.50	1,428	1
H-3	180	75.00	184	85.00	1,415	1
A-4	200	125.00	209	147.50	1,353	1
B-4	180	75.00	187	92.50	1,408	1
C-4	190	100.00	189	97.50	1,403	1
I-4	190	100.00	191	102.50	1,398	1
J-4	210	150.00	219	172.50	1,328	1
K-4	200	125.00	206	140.00	1,360	1
A-5	200	125.00	202	130.00	1,370	1
B-5	190	100.00	293	357.50	1,143	1
C-5	200	125.00	204	135.00	1,365	1
I-5	190	100.00	191	102.50	1,398	1
J-5	180	75.00	187	92.50	1,408	1
K-5	200	125.00	207	142.50	1,358	1
A-6	200	125.00	206	140.00	1,360	1
B-6	180	75.00	189	97.50	1,403	1
C-6	200	125.00	219	172.50	1,328	1
I-6	180	75.00	188	95.00	1,405	1
J-6	190	100.00	198	120.00	1,380	1
K-6	180	75.00	199	122.50	1,378	1
A-7	200	125.00	209	147.50	1,353	1
B-7	190	100.00	199	122.50	1,378	1
C-7	180	75.00	183	82.50	1,418	1
I-7	190	100.00	201	127.50	1,373	1
J-7	190	100.00	211	152.50	1,348	1
K-7	200	125.00	206	140.00	1,360	1
A-8	200	125.00	208	145.00	1,355	1
B-8	200	125.00	218	170.00	1,330	1
C-8	190	100.00	193	107.50	1,393	1
I-8	200	125.00	208	145.00	1,355	1
J-8	200	125.00	201	127.50	1,373	1

RADIOLOGICAL SURVEY
SIGN TEST FORM

Survey Location:	Walter Reed AIR		Instrument:	Model 2224		
Survey Unit:	Room 02-03		SN:	143048	DCGL _w dpm/100cm ² :	
Survey Unit Classification:	Class 2		Detector:	Model 43-37	1,500	
Survey Unit Size in Meters ² :	97		SN:	147960		
Date:	08/15/2000		Det Size in cm ² :	125		
Time:	1430		Cal Due Date:	06/03/2001		
Surveyor:	Gary Nason, Nancy Morey		Bkg Time:	1	Minutes	
Reviewed by:	Dan Spicuzza		Sample Count Time:	1	Minutes	
Type of Survey:	Beta-Gamma Scan and Direct Measurement Survey of Walls		Surface Efficiency:	0.8		
			Surveyor Efficiency Factor:	0.5		
			Daily Bkg α:	4	CPM	
			Daily Bkg βγ:	150	CPM	
			Efficiency α:	0.8		
			Efficiency βγ:	0.12		
			L _C α:	4.7	CPM	
			L _D α:	12.3	CPM	
			Direct Measurement MDC α:	15.4	dpm/100cm ²	
			S _{it} :	1.69		
			B _{it} :	0.27		
			Scan MDCR α:	25.4	CPM	
			Scan MDC α:	44.9	dpm/100cm ²	
			L _C βγ:	28.5	CPM	
			L _D βγ:	60.0	CPM	
			Direct Measurement MDC βγ:	499.6	dpm/100cm ²	
			S _{βγ} :	10.37		
			B _{βγ} :	10.00		
			Scan MDCR βγ:	156	CPM	
			Scan MDC βγ:	1833.6	dpm/100cm ²	
K-8	200	125.00	208	145.00	1,355	1
D-9	200	125.00	203	132.50	1,368	1
E-9	210	150.00	208	145.00	1,355	1
F-9	210	150.00	202	130.00	1,370	1
G-9	210	150.00	212	155.00	1,345	1
H-9	200	125.00	207	142.50	1,358	1
D-10	220	175.00	227	192.50	1,308	1
E-10	200	125.00	204	135.00	1,365	1
F-10	210	150.00	208	145.00	1,355	1
G-10	240	225.00	248	245.00	1,255	1
H-10	200	125.00	198	120.00	1,380	1
D-11	240	225.00	257	267.50	1,233	1
E-11	210	150.00	209	147.50	1,353	1
F-11	220	175.00	232	205.00	1,295	1
G-11	220	175.00	234	210.00	1,290	1
H-11	210	150.00	212	155.00	1,345	1
L-12	250	250.00	255	262.50	1,238	1
M-12	240	225.00	246	240.00	1,260	1
N-12	230	200.00	234	210.00	1,290	1
L-13	230	200.00	231	202.50	1,298	1
M-13	200	125.00	203	132.50	1,368	1
N-13	200	125.00	208	145.00	1,355	1
L-14	230	200.00	235	212.50	1,288	1
M-14	210	150.00	214	160.00	1,340	1
N-14	210	150.00	211	152.50	1,348	1
L-15	230	200.00	242	230.00	1,270	1
M-15	240	225.00	248	245.00	1,255	1
N-15	230	200.00	226	190.00	1,310	1
Remarks: Micro/hr readings at 1 meter from surfaces of all grids is 4 μR/hr.			Critical Value:	10	Number of positive differences S+ =	72
Model 19 S/N:133178			Standard Deviation =	55.03	Number of Required Date Points:	14
Grids are 1 m by 1 m			Mean Value =	145.31	Sign P:	1.0
			Median =	140	LBGR:	750
					Δσ:	13.62