3RD FLOOR

FNR Decommissioning

SURVEY NO.: 2010 - 0113 LOCATION: POOL FLOOR

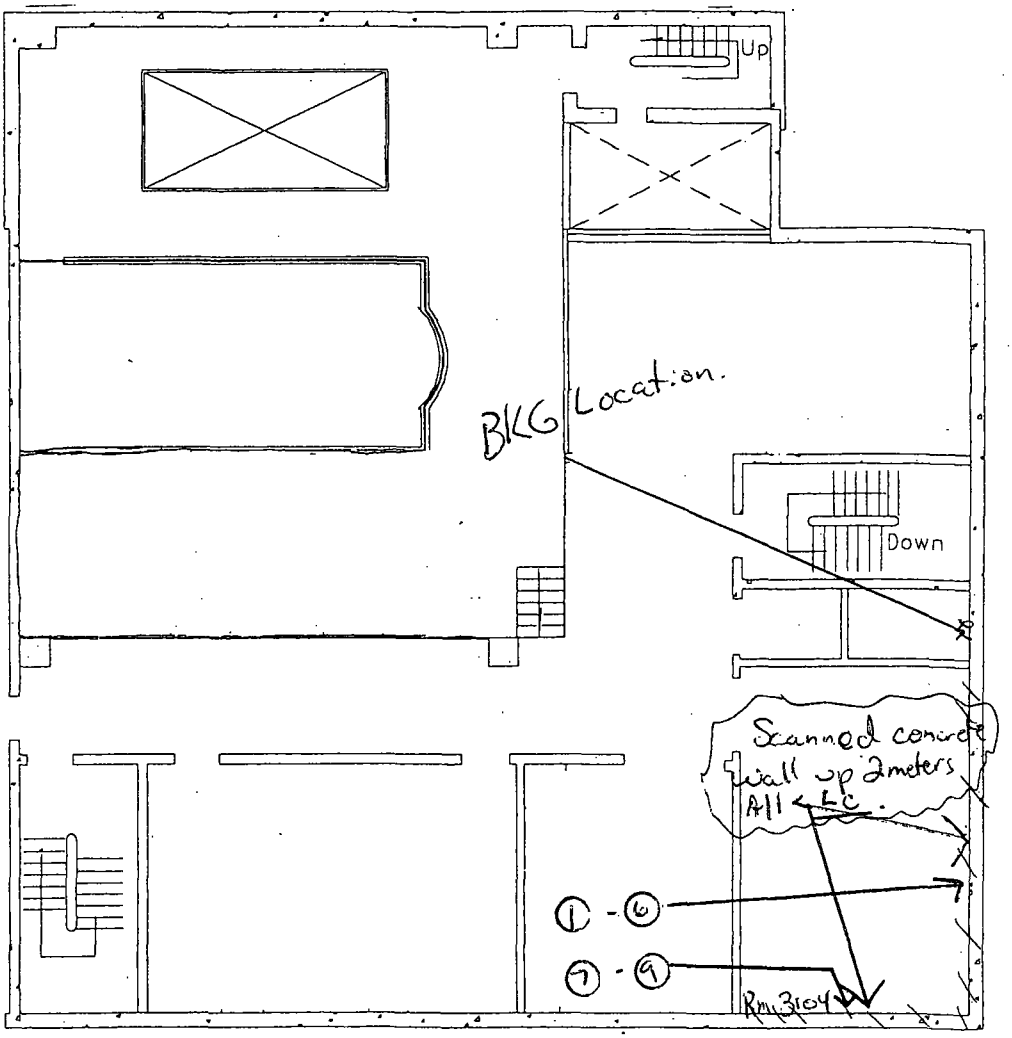
DATE: 10-05-10 TIME 1030 WEEK ENDING N/A

Instrument	Serial Number	Cal. Due Date	Efficiency	Background (CPM)	MDA (DPM)
2221/44-142	218574/172810214	31 Aug 2011	10%	324 (Ave)	Lc = 55/cpm gross
Tennelec Series 5	2161	30 July 2011	7.57a/24.51B	9a/1.01B	11.46a/19.69B
	N			N	
		A			A
Frisker Detector HV = 1150 Vdc		Threshold Voltage = 35 mVdc		Detector cable length = 6 ft.	

SMEAR RESULTS IN dpm/100cm²

No.	Beta/ Gamma	Alpha
1	<MDA	<MDA
2		
3		
4		
5		
6		
7		
8		
9	<MDA	<MDA
10		
11		
12		
13		
14	N	
15		A
16		
17		
18		
19		
20		

Legend: * Contact; #/# Contact / 12" Reading or General Area; #=General Area; ① = Smear location;



Third Floor

Print/Signature of Surveyor: Jerry Shmelz Date: 11/2/2010

Comments: Initial scan of Rm 3104. Scan of concrete wall up to 2meters was all < Lc. Smears counted on 11-2-10. Batch key # 1130.

Reviewed By: Mark A. Driscoll Date: 05/13/11

Retention LP+10

Sample Report

Batch ID:	Smears - 201011020802	**Count Date:**	11/2/2010 8:02:05AM
Group:	B	**Count Minutes:**	3.00
Device:		**Count Mode:**	Simultaneous
Batch Key:	1130	**Operating Volts:**	1410
Selected Geometry	Swipe/Smear		

Efficiency (%)

Alpha: 7.87 ± 0.07
Beta: 24.51 ± 0.15

Sample ID	Sample Type	Alpha (dpm)	Unc	Alpha MDA (dpm)	Beta (dpm)	Unc	Beta MDA (dpm)	
Jnloaded Swipe	LCS	4.24	4.24	11.46	-2.72	2.72	14.64	
Tc-99 Eberline Standard	LCS	21.18	9.47	11.46	10543.23	136.78	14.64	
Th-230 Eberline Standarc	Unknown	30092.42	448.30	11.46	2193.22	56.41	14.64	
Jnloaded Swipe	LCS	4.24	4.24	11.46	-1.36	3.04	14.64	
20101102081706-B1	Unknown	4.24	4.24	11.46	8.16	4.71	14.64	
20101102082026-B2	Unknown	8.47	5.99	11.46	1.36	3.60	14.64	
20101102082336-B3	Unknown	0.00	0.00	11.46	4.08	4.08	14.64	
20101102082656-B4	Unknown	4.24	4.24	11.46	1.36	3.60	14.64	
20101102083016-B5	Unknown	0.00	0.00	11.46	1.36	3.60	14.64	
20101102083326-B6	Unknown	0.00	0.00	11.46	0.00	3.33	14.64	
20101102083646-B7	Unknown	4.24	4.24	11.46	0.00	3.33	14.64	
20101102084006-B8	Unknown	0.00	0.00	11.46	5.44	4.30	14.64	
20101102084316-B9	Unknown	0.00	0.00	11.46	2.72	3.85	14.64	
20101102084636-B10	Unknown	0.00	0.00	11.46	0.00	3.33	14.64	
20101102084956-B11	Unknown	0.00	0.00	11.46	-2.72	2.72	14.64	
20101102085316-B12	Unknown	12.71	7.34	11.46	2.72	3.85	14.64	Recounted on Icen 1132. LMDA 11-2-10
20101102085626-B13	Unknown	0.00	0.00	11.46	0.00	3.33	14.64	
20101102085946-B104	Unknown	0.00	0.00	11.46	4.08	4.08	14.64	
Unloaded Swipe	Background	**Alpha (cpm):** 0.00			**Beta (cpm):** 1.00			
Unloaded Swipe	LCS	4.24	4.24	11.46	-2.72	2.72	14.64	

Reviewed by: _____

Print Date 11/2/2010
Print Time 10:44:54AM

Background Report

Batch ID:	Smears - 201011020802	**Count Date:**	11/2/2010 8:02:05AM
Group:	B	**Count Minutes:**	3.00
Device:		**Count Mode:**	Simultaneous
Batch Key:	1130	**Operating Volts:**	1410
Selected Geometry	Swipe/Smear		

Background (cpm)

Alpha Rate: 0.00 ± 0.00 **Beta Rate:** 1.00 ± 0.58

Sample ID	Alpha (cpm)	Unc	Beta (cpm)	Unc	Guard (cpm)
20101102080205-B147	0.33	0.33	0.33	0.33	198.00
20101102080716-B149	1.67	0.75	2,585.67	29.36	202.00
20101102081026-B150	2,368.33	28.10	538.67	13.40	206.33
20101102081346-B140	0.33	0.33	0.67	0.47	198.00
20101102081706-B1	0.33	0.33	3.00	1.00	209.33
20101102082026-B2	0.67	0.47	1.33	0.67	204.67
20101102082336-B3	0.00	0.00	2.00	0.82	192.67
20101102082656-B4	0.33	0.33	1.33	0.67	214.00
20101102083016-B5	0.00	0.00	1.33	0.67	204.67
20101102083326-B6	0.00	0.00	1.00	0.58	196.67
20101102083646-B7	0.33	0.33	1.00	0.58	206.00
20101102084006-B8	0.00	0.00	2.33	0.88	210.33
20101102084316-B9	0.00	0.00	1.67	0.75	204.33
20101102084636-B10	0.00	0.00	1.00	0.58	200.00
20101102084956-B11	0.00	0.00	0.33	0.33	203.67
20101102085316-B12	1.00	0.58	1.67	0.75	194.67
20101102085626-B13	0.00	0.00	1.00	0.58	196.33
20101102085946-B104	0.00	0.00	2.00	0.82	199.00
20101102090306-B15	0.00	0.00	1.00	0.58	210.33
20101102090616-B141	0.33	0.33	0.33	0.33	189.67
				Guard Avg Rate:	202.03

Reviewed by: _____

Print Date 11/2/2010
Print Time 10:44:35AM

Procedure:

Smears

Is Active

Count Mode

Alpha | Alpha then Beta | Simultaneous

Discriminator Selection
Alpha/Beta ROI:

Tc-99 3.5% 0.8%

Beta Lower:	Beta Upper:	Alpha Lower:
0.25	27.80	53.70

Presets:

Count Time:	3	minutes
Alpha:	0	counts
Beta:	0	counts

Preselected Report:

>>

Reporting Units: dpm

Preselected Group & Device:

None | None

Sample Count Delay

0.1 minutes (0 to 9,999 minutes)

Count Repetitions

Sample: 1 (1 - 99)

Batch: 1 (1 - 10)

Weak Sample Reject

Disable | Enable

Initial Test Time:

Min Count Rate:

Background Subtraction

Disable | Enable

Previous Stored | Method Blank

Spillover Correction

Disable | Enable

Sample Activity

Disable | Enable

Alpha Cal. Standard: Am-241 G2-188

Beta Cal. Standard: Tc-99 G2-189 47

Geometry Selection

Geometry: Swipe/Smear

New | Save As | Print

Key 1130

Rm 3104

11-2-10

FNR Decommissioning

SURVEY NO.: 2010 - 0114 LOCATION: POOL FLOOR

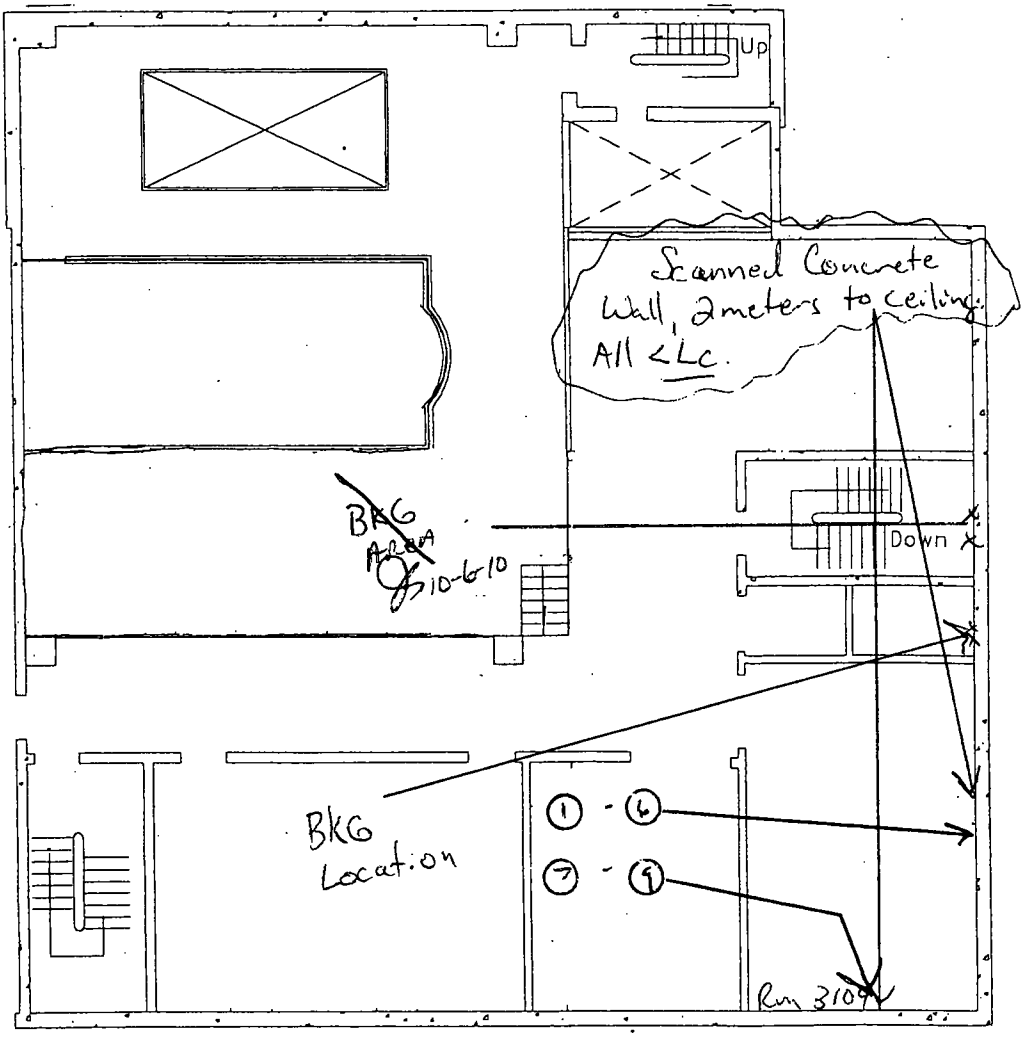
DATE: 10-6-10 TIME 0815 WEEK ENDING N/A

Instrument	Serial Number	Cal. Due Date	Efficiency	Background (CPM)	MDA (DPM)
2221/44-142	218574/PN240714	31 Aug 2011	10%	346 (Avg)	Lc = 403 cpm/gross
Tempdec Series 5	2161	30 July 2011	7.87a/24.51b	.8a/1.0b	11.46a/14.64b
	P			P	
	A			A	
Frisker Detector HV = 1250 Vdc		Threshold Voltage = 35 mVdc		Detector cable length = 20 ft.	

SMEAR RESULTS IN dpm/100cm²

No.	Beta/ Gamma	Alpha
1	<MDA	<MDA
2		
3		
4		
5		
6		
7		
8		
9	<MDA	<MDA
10		
11		
12		
13		
14		
15	P	
16		A
17		
18		
19		
20		

Legend: * Contact; #/# Contact / 12" Reading or General Area; #=General Area; ① = Smear location;



Third Floor

Print/Signature of Surveyor: Jerry Shinek / Jerry Shinek Date: 11/2/2010

Comments: Initial scan concrete wall above 2meters. All was <Lc. BKG taken from a (3) location average on the concrete wall. For the smears, I had combined the upper & lower wall on one smear survey. Background ≈1130.

Reviewed By: Martha Burrell Date: 05/13/11

Retention LP+10

FNR Decommissioning

SURVEY NO.: 2010 - 0115 LOCATION: POOL FLOOR

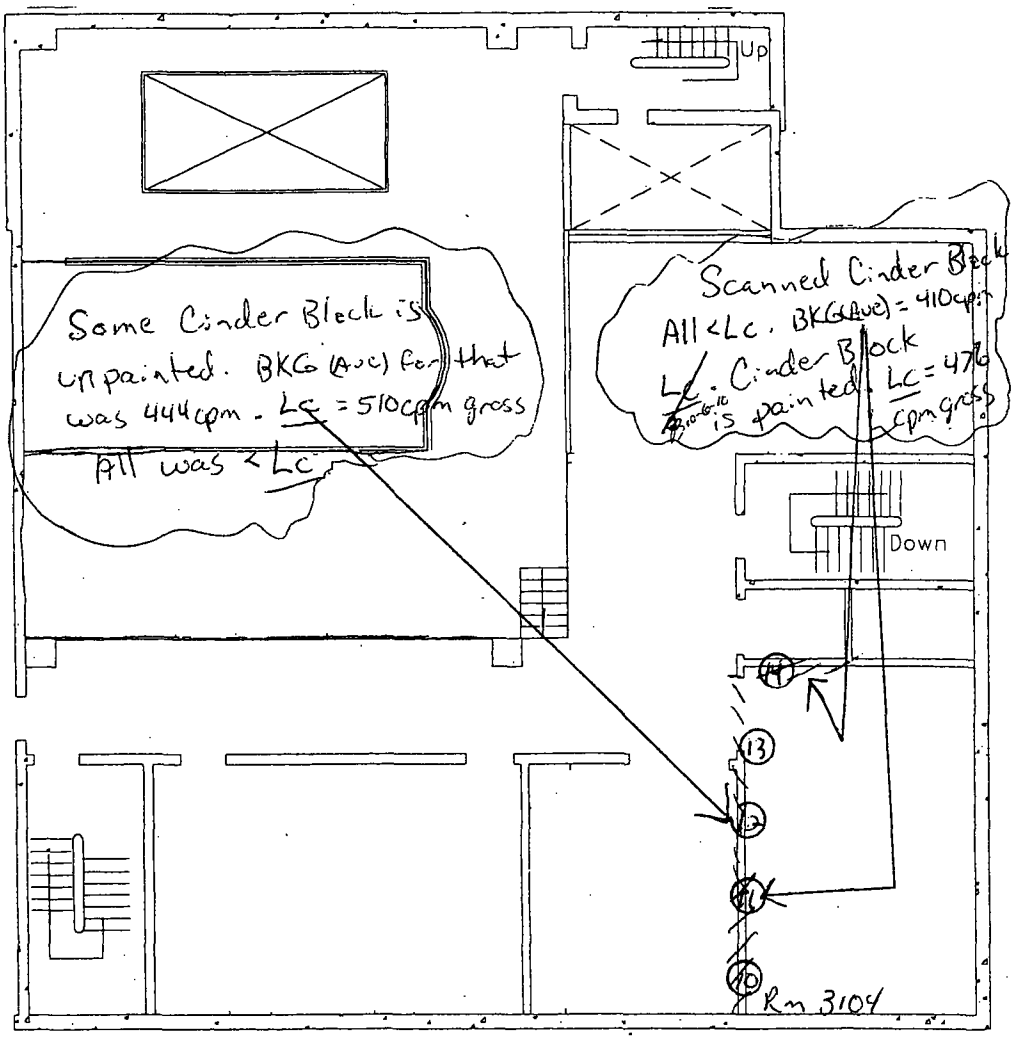
DATE: 10-6-10 TIME 1515 WEEK ENDING N/A

Instrument	Serial Number	Cal. Due Date	Efficiency	Background (CPM)	MDA (DPM)
2221/44-42	218579/pr240714	31 Aug 2011	10%	See Below	See Below
Tennelec Series 5	2161	30 July 2011	7.87a/2451B	Øa/1.0B	11.4a/14.6B
	N			N	
	A			A	
Frisker Detector HV = 1250 Vdc		Threshold Voltage = 35 mVdc		Detector cable length = 20 ft.	

SMEAR RESULTS IN dpm/100cm²

No.	Beta/ Gamma	Alpha
1		
2		
3		
4	N	
5		A
6		
7		
8		
9		
10	<MDA	<MDA
11		
12		
13		
14	<MDA	<MDA
15		
16		
17	N	
18		A
19		
20		

Legend: * Contact; #/# Contact / 12" Reading or General Area; #=General Area; ① = Smear location;



Third Floor

Print/Signature of Surveyor: Jerry Shinall/Jerry Shinall Date: 11/2/2010

Comments: Initial scan cinder blocks in Rm 3104. Some block is unpainted, thus I calculated (2) Lc values. Cinder block areas were < Lc in respective areas. Smears counted on 11-2-10, Batch key # 1130.

Reviewed By: Mark H. Braswell Date: 05/13/11

Retention LP+10

FNR Decommissioning

SURVEY NO.: 2011-0043 LOCATION: POOL FLOOR

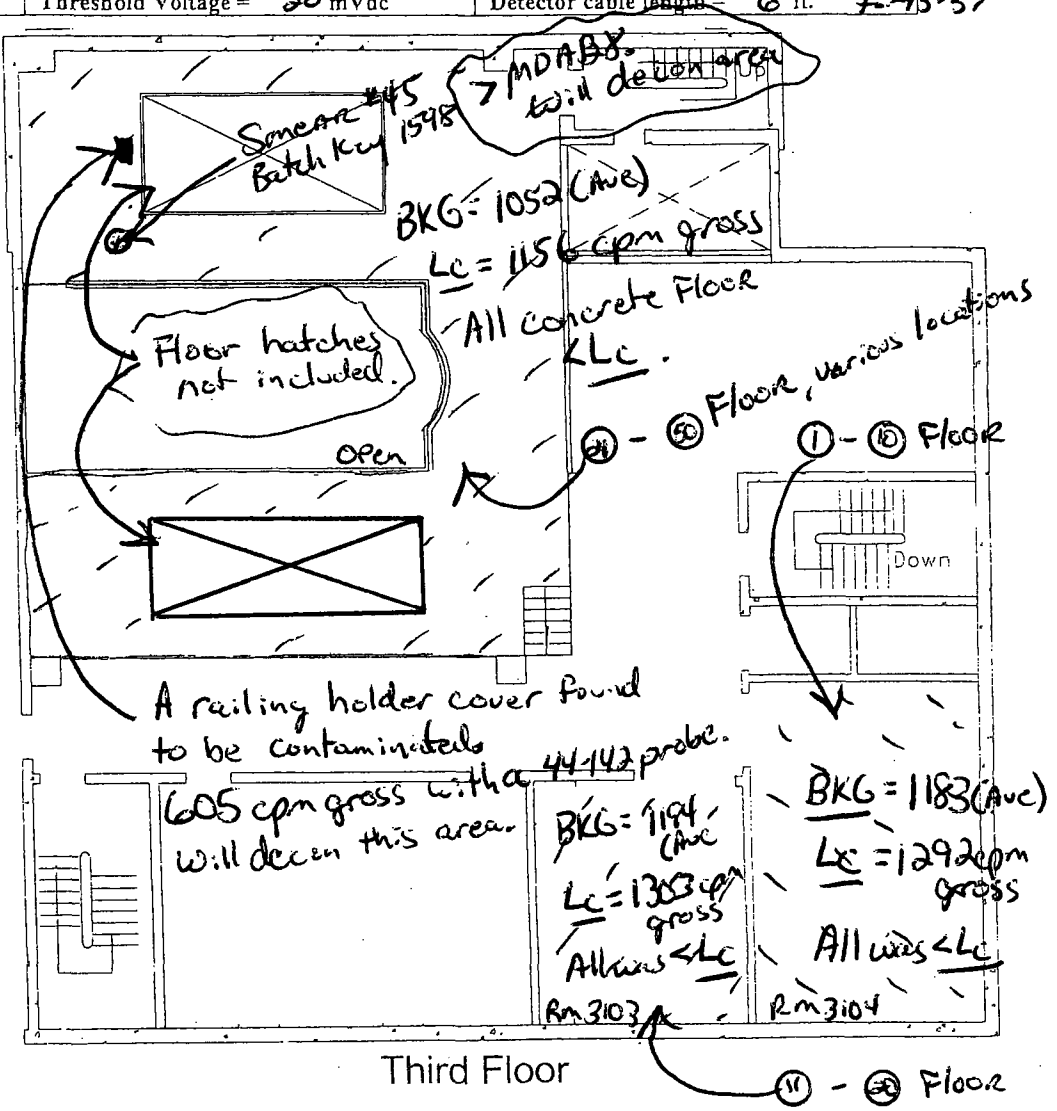
DATE: 5-17-2011 TIME 0815 WEEK ENDING N/A

Instrument	Serial Number	Cal. Due Date	Efficiency	Background (CPM)	MDA (DPM)
2221/43-37	218598/177474	9-22-11/12-23-11	10%	See Below	See Below
2221/44-142	234988/PR216033	10-01-2011	10%	448 (Ave)	Lc = 514 cpm gross
Tennelec Series 5	2161	30 July 2011	7.87a/24.51B	See Batch Report	See Batch Report
Frisker Detector HV = 1700 Vdc		Threshold Voltage = 20 mVdc		Detector cable length = 6 ft.	43-37

SMEAR RESULTS IN dpm/100cm²

No.	Beta/ Gamma	Alpha
1	<MDA	<MDA
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20	<MDA	<MDA

Legend: * Contact; #/# Contact / 12" Reading or General Area; #=General Area; ① = Smear location;



Third Floor

Print/Signature of Surveyor: Jerry Shinedl / Jerry Shinedl Date: 5/23/2011

Comments: Survey Floor of Rm 3103, 3104, and general walk way with floor scanned. I did a separate Lc for each area using (3) random spots for BKG's in each area. All Scanned floor was < Lc, except for a latch cover which will be deemed latter. Smears on Batch Key #'s. 1590, 1592, 1595, 1598, & 1605. Smear #45 was 21 dpm/100cm² Beta.

Reviewed By: Mark A. Wenell Date: 05/06/11

Sample Report

Batch ID:	Smears - 201105191423	**Count Date:**	5/19/2011 2:23:07PM
Group:	A	**Count Minutes:**	3.00
Device:		**Count Mode:**	Simultaneous
Batch Key:	1598	**Operating Volts:**	1410
Selected Geometry	*Swipe/Smear*		

Efficiency (%)

Alpha: 7.87 ± 0.07
Beta: 24.51 ± 0.15

Sample ID	Sample Type	Alpha (dpm)	Unc	Alpha MDA (dpm)	Beta (dpm)	Unc	Beta MDA (dpm)	
Jnloaded Swipe	LCS	0.00	0.00	11.46	-4.08	3.60	17.83	
Tc-99 Ebelrne Standard	LCS	4.24	4.24	11.46	10487.48	136.36	17.83	
Th-230 Ebelrine Standarc	LCS	30422.78	451.65	11.46	2126.59	55.56	17.83	
Jnloaded Swipe	LCS	0.00	0.00	11.46	-2.72	3.85	17.83	
20110519143818-A1	Unknown	4.24	4.24	11.46	4.08	4.90	17.83	
20110519144138-A2	Unknown	4.24	4.24	11.46	-4.08	3.60	17.83	
20110519144448-A3	Unknown	4.24	4.24	11.46	-2.72	3.85	17.83	
20110519144808-A4	Unknown	16.94	8.47	11.46	-5.44	3.33	17.83	recount sat 5-23-11
20110519145128-A5	Unknown	8.47	5.99	11.46	5.44	5.09	17.83	
20110519145448-A6	Unknown	0.00	0.00	11.46	-1.36	4.08	17.83	
20110519145759-A7	Unknown	0.00	0.00	11.46	-4.08	3.60	17.83	
20110519150119-A8	Unknown	12.71	7.34	11.46	5.44	5.09	17.83	recount Sat 5-23-11
20110519150439-A9	Unknown	4.24	4.24	11.46	2.72	4.71	17.83	
20110519150749-A10	Unknown	12.71	7.34	11.46	0.00	4.30	17.83	recount Sat 5-23-11
20110519151109-A11	Unknown	4.24	4.24	11.46	1.36	4.51	17.83	
20110519151429-A12	Unknown	4.24	4.24	11.46	2.72	4.71	17.83	
20110519151749-A13	Unknown	0.00	0.00	11.46	-2.72	3.85	17.83	
20110519152059-A14	Unknown	8.47	5.99	11.46	0.00	4.30	17.83	
20110519152419-A15	Unknown	0.00	0.00	11.46	10.88	5.77	17.83	
20110519152739-A16	Unknown	4.24	4.24	11.46	9.52	5.61	17.83	
20110519153049-A17	Unknown	0.00	0.00	11.46	-1.36	4.08	17.83	
20110519153410-A18	Unknown	0.00	0.00	11.46	1.36	4.51	17.83	
20110519153729-A19	Unknown	4.24	4.24	11.46	5.44	5.09	17.83	
20110519154049-A20	Unknown	0.00	0.00	11.46	-1.36	4.08	17.83	
20110519154359-A61	Unknown	8.47	5.99	11.46	0.00	4.30	17.83	
20110519154719-A22	Unknown	4.24	4.24	11.46	9.52	5.61	17.83	
20110519155039-A23	Unknown	0.00	0.00	11.46	13.60	6.08	17.83	
20110519155349-A24	Unknown	4.24	4.24	11.46	6.80	5.27	17.83	
20110519155710-A25	Unknown	4.24	4.24	11.46	20.40	6.80	17.83	Bad 5-24-11 Key 1605 5-24-11
20110519160030-A26	Unknown	4.24	4.24	11.46	6.80	5.27	17.83	
20110519160350-A27	Unknown	4.24	4.24	11.46	1.36	4.51	17.83	
20110519160700-A28	Unknown	8.47	5.99	11.46	4.08	4.90	17.83	
20110519161020-A29	Unknown	0.00	0.00	11.46	6.80	5.27	17.83	
20110519161340-A30	Unknown	0.00	0.00	11.46	20.40	6.80	17.83	recount SAT Key 1605 5-24-11
20110519161650-A4	Unknown	0.00	0.00	11.46	12.24	5.93	17.83	recounts
20110519162010-A8	Unknown	4.24	4.24	11.46	5.44	5.09	17.83	
20110519162330-A10	Unknown	0.00	0.00	11.46	8.16	5.44	17.83	
Jnloaded Swipe	Background	**Alpha (cpm):** 0.00			**Beta (cpm):** 1.67			

location #45

recounts #'s 21-50 5-23-11

MTW 08/06/11

Print Date 5/23/2011
Print Time 8:26:08AM

Batch ID:	Smears - 201105191423	**Count Date:**	5/19/2011 2:23:07PM
Group:	A	**Count Minutes:**	3.00
Device:		**Count Mode:**	Simultaneous
Batch Key:	1598	**Operating Volts:**	1410
Selected Geometry	Swipe/Smear		

Efficiency (%)

Alpha: 7.87 ± 0.07
Beta: 24.51 ± 0.15

Sample ID	Sample Type	Alpha (dpm)	Unc	Alpha MDA (dpm)	Beta (dpm)	Unc	Beta MDA (dpm)

Reviewed by: Mark T. Driscoll

Print Date 5/23/2011
Print Time 8:26:07AM

Background Report

Batch ID:	Smears - 201105191423	**Count Date:**	5/19/2011 2:23:07PM
Group:	A	**Count Minutes:**	3.00
Device:		**Count Mode:**	Simultaneous
Batch Key:	1598	**Operating Volts:**	1410
Selected Geometry	Swipe/Smear		

Background (cpm)

Alpha Rate: 0.00 ± 0.00 **Beta Rate:** 1.67 ± 0.75

Sample ID	Alpha (cpm)	Unc	Beta (cpm)	Unc	Guard (cpm)
20110519142307-A146	0.00	0.00	0.67	0.47	200.33
20110519142828-A149	0.33	0.33	2,572.67	29.28	198.00
20110519143148-A150	2,394.33	28.25	523.00	13.20	206.67
20110519143458-A142	0.00	0.00	1.00	0.58	200.67
20110519143818-A1	0.33	0.33	2.67	0.94	198.67
20110519144138-A2	0.33	0.33	0.67	0.47	182.33
20110519144448-A3	0.33	0.33	1.00	0.58	203.00
20110519144808-A4	1.33	0.67	0.33	0.33	200.33
20110519145128-A5	0.67	0.47	3.00	1.00	207.00
20110519145448-A6	0.00	0.00	1.33	0.67	197.67
20110519145759-A7	0.00	0.00	0.67	0.47	201.33
20110519150119-A8	1.00	0.58	3.00	1.00	183.00
20110519150439-A9	0.33	0.33	2.33	0.88	197.33
20110519150749-A10	1.00	0.58	1.67	0.75	203.33
20110519151109-A11	0.33	0.33	2.00	0.82	190.00
20110519151429-A12	0.33	0.33	2.33	0.88	213.67
20110519151749-A13	0.00	0.00	1.00	0.58	202.67
20110519152059-A14	0.67	0.47	1.67	0.75	195.00
20110519152419-A15	0.00	0.00	4.33	1.20	208.00
20110519152739-A16	0.33	0.33	4.00	1.15	207.67
20110519153049-A17	0.00	0.00	1.33	0.67	178.00
20110519153410-A18	0.00	0.00	2.00	0.82	198.00
20110519153729-A19	0.33	0.33	3.00	1.00	209.67
20110519154049-A20	0.00	0.00	1.33	0.67	194.67
20110519154359-A61	0.67	0.47	1.67	0.75	184.33
20110519154719-A22	0.33	0.33	4.00	1.15	213.67
20110519155039-A23	0.00	0.00	5.00	1.29	202.00
20110519155349-A24	0.33	0.33	3.33	1.05	190.33
20110519155710-A25	0.33	0.33	6.67	1.49	204.00
20110519160030-A26	0.33	0.33	3.33	1.05	191.33
20110519160350-A27	0.33	0.33	2.00	0.82	200.00
20110519160700-A28	0.67	0.47	2.67	0.94	201.33
20110519161020-A29	0.00	0.00	3.33	1.05	194.33
20110519161340-A30	0.00	0.00	6.67	1.49	207.00
20110519161650-A4	0.00	0.00	4.67	1.25	210.00
20110519162010-A8	0.33	0.33	3.00	1.00	211.33
20110519162330-A10	0.00	0.00	3.67	1.11	198.67
20110519162650-A147	0.00	0.00	1.67	0.75	199.33

Guard Avg Rate: 199.60

Reviewed by: Mark A. Driscoll

Print Date 5/23/2011
Print Time 8:26:19AM

Sample Report

Batch ID:	Smears - 201105231254	**Count Date:**	5/23/2011 12:54:32PM
Group:	A	**Count Minutes:**	3.00
Device:		**Count Mode:**	Simultaneous
Batch Key:	1605	**Operating Volts:**	1410
Selected Geometry	Swipe/Smear		

Efficiency (%)

Alpha: 7.87 ± 0.07
Beta: 24.51 ± 0.15

Sample ID	Sample Type	Alpha (dpm)	Unc	Alpha MDA (dpm)	Beta (dpm)	Unc	Beta MDA (dpm)
Unloaded Swipe	Background	**Alpha (cpm):** 0.00			**Beta (cpm):** 1.00		
Tc-99 Eberline Standard	LCS	4.24	4.24	11.46	10328.39	135.05	14.64
Th-230 Eberline Standarc	LCS	31295.27	460.50	11.46	2098.04	55.10	14.64
Unloaded Swipe	LCS	0.00	0.00	11.46	-1.36	3.04	14.64
20110523130942-A4	Unknown	0.00	0.00	11.46	4.08	4.08	14.64
20110523131302-A12	Unknown	0.00	0.00	11.46	14.96	5.61	14.64
20110523131622-A61	Unknown	0.00	0.00	11.46	0.00	3.33	14.64
20110523131932-A25	Unknown	16.94	8.47	11.46	31.27	7.32	14.64
20110523132252-A30	Unknown	8.47	5.99	11.46	12.24	5.27	14.64
Unloaded Swipe	LCS	0.00	0.00	11.46	-1.36	3.04	14.64

A25 (3)

GOOD RECOUNT EFFORT ?

#A25 was <MDA on key 1598, and less than a contaminated area limit for alpha on key 1605, so I had to decon the area anyway with the Beta being >MDA. 6-8-11

Reviewed by: Mark A. Duncan

Print Date 5/24/2011
Print Time 7:47:26AM

Procedure: Smear

Is Active

Count Mode

Alpha | Alpha then Beta | Simultaneous

Discriminator Selection
Alpha/Beta ROI: Tc-99 3.5% 0.8%

Beta Lower:	Beta Upper:	Alpha Lower:
0.25	27.80	53.70

Presets:

Count Time:	3	minutes
Alpha:	0	counts
Beta:	0	counts

New

Preselected Report: >>

Reporting Units: dpm

Preselected Group & Device: None / None

Sample Count Delay: 0.1 minutes (0 to 9.999 minutes)

Count Repetitions

Sample: 1 (1 - 99)

Batch: 1 (1 - 10)

Weak Sample Reject: Disable | Enable

Initial Test Time:

Min Count Rate:

Save As

Background Subtraction: Disable | Enable | Previous Stored | Method Blank

Spillover Correction: Disable | Enable

Sample Activity: Disable | Enable

Alpha Cal. Standard: Am-241 G2-188

Beta Cal. Standard: Tc-99 G2-189 47

Geometry Selection

Geometry: Swipe/Smear

Print

Lu 159
3rd floor
GA
5-18-11

Sample Report

Batch ID:	Smears - 201105171328	**Count Date:**	5/17/2011 1:28:10PM
Group:	I	**Count Minutes:**	3.00
Device:		**Count Mode:**	Simultaneous
Batch Key:	1590	**Operating Volts:**	1410
Selected Geometry	Swipe/Smear		

Efficiency (%)

Alpha: 7.87 ± 0.07
Beta: 24.51 ± 0.15

Sample ID	Sample Type	Alpha (dpm)	Unc	Alpha MDA (dpm)	Beta (dpm)	Unc	Beta MDA (dpm)
Unloaded Swipe	LCS	0.00	0.00	11.46	1.36	4.08	16.33
Tc-99 Eberline Standard	LCS	29.65	11.21	11.46	10157.07	133.69	16.33
Th-230 Eberline Standarc	LCS	30499.02	452.43	11.46	2104.84	55.23	16.33
Unloaded Swipe	LCS	12.71	7.34	11.46	1.36	4.08	16.33
20110517134331-I101	Unknown	16.94	8.47	11.46	5.44	4.71	16.33
20110517134641-I102	Unknown	4.24	4.24	11.46	2.72	4.30	16.33
20110517135001-I103	Unknown	8.47	5.99	11.46	5.44	4.71	16.33
20110517135321-I104	Unknown	8.47	5.99	11.46	10.88	5.44	16.33
20110517135631-I105	Unknown	4.24	4.24	11.46	5.44	4.71	16.33
20110517135951-I106	Unknown	4.24	4.24	11.46	5.44	4.71	16.33
20110517140311-I107	Unknown	4.24	4.24	11.46	1.36	4.08	16.33
20110517140631-I108	Unknown	0.00	0.00	11.46	0.00	3.85	16.33
20110517140941-I109	Unknown	4.24	4.24	11.46	0.00	3.85	16.33
20110517141301-I10	Unknown	0.00	0.00	11.46	6.80	4.90	16.33
Unloaded Swipe	Background	**Alpha (cpm):** 0.00			**Beta (cpm):** 1.33		

rerun SAT Key 1582 5-18-11

#s 1-10 5-17-11

Rm 3104

Reviewed by: Mark T. Worrell

Print Date 5/17/2011
Print Time 3:12:06PM

Background Report

Batch ID:	Smears - 201105171328	**Count Date:**	5/17/2011 1:28:10PM
Group:	I	**Count Minutes:**	3.00
Device:		**Count Mode:**	Simultaneous
Batch Key:	1590	**Operating Volts:**	1410
Selected Geometry	Swipe/Smear		

Background (cpm)

Alpha Rate: 0.00 ± 0.00 **Beta Rate:** 1.33 ± 0.67

Sample ID	Alpha (cpm)	Unc	Beta (cpm)	Unc	Guard (cpm)
20110517132810-I142	0.00	0.00	1.67	0.75	201.67
20110517133331-I149	2.33	0.88	2,491.33	28.82	208.67
20110517133651-I150	2,400.33	28.29	517.33	13.13	199.00
20110517134011-I146	1.00	0.58	1.67	0.75	206.33
20110517134331-I101	1.33	0.67	2.67	0.94	197.00
20110517134641-I102	0.33	0.33	2.00	0.82	207.33
20110517135001-I103	0.67	0.47	2.67	0.94	192.67
20110517135321-I104	0.67	0.47	4.00	1.15	199.33
20110517135631-I105	0.33	0.33	2.67	0.94	196.00
20110517135951-I106	0.33	0.33	2.67	0.94	207.67
20110517140311-I107	0.33	0.33	1.67	0.75	205.00
20110517140631-I108	0.00	0.00	1.33	0.67	201.67
20110517140941-I109	0.33	0.33	1.33	0.67	199.67
20110517141301-I10	0.00	0.00	3.00	1.00	226.67
20110517141621-I143	0.00	0.00	1.33	0.67	190.00
				Guard Avg Rate:	202.58

Reviewed by: Mark M. Worrell

Print Date 5/17/2011
Print Time 3:11:57PM

Sample Report

Batch ID:	Smears - 201105171704	**Count Date:**	5/17/2011 5:04:02PM
Group:	C	**Count Minutes:**	3.00
Device:		**Count Mode:**	Simultaneous
Batch Key:	1592	**Operating Volts:**	1410
Selected Geometry	Swipe/Smear		

Efficiency (%)

Alpha: 7.87 ± 0.07
Beta: 24.51 ± 0.15

Sample ID	Sample Type	Alpha (dpm)	Unc	Alpha MDA (dpm)	Beta (dpm)	Unc	Beta MDA (dpm)
Unloaded Swipe	LCS	4.24	4.24	11.46	2.72	4.30	16.33
Unloaded Swipe	LCS	4.24	4.24	11.46	2.72	4.30	16.33
Tc-99 Eberline Standard	LCS	8.47	5.99	11.46	10231.85	134.29	16.33
Th-230 Eberline Standard	LCS	30837.85	455.87	11.46	2074.92	54.82	16.33
Unloaded Swipe	LCS	4.24	4.24	11.46	-1.36	3.60	16.33
20110517172243-C1	Unknown	0.00	0.00	11.46	2.72	4.30	16.33
20110517172603-C16	Unknown	4.24	4.24	11.46	8.16	5.09	16.33
20110517172913-C101	Unknown	8.47	5.99	11.46	4.08	4.51	16.33
Unloaded Swipe	Background	**Alpha (cpm):** 0.00			**Beta (cpm):** 1.33		

– rerun from 1 Lay 1590 5-18-11

Good Recount Effort !

MMJ
08/06/11

Reviewed by: Mark T. Driscoll

Print Date 5/18/2011
Print Time 7:42:57AM

Procedure:

Sm ars

Is Active

Count Mode

Alpha | Alpha then Beta | Simultaneous

Discriminator Selection
Alpha/Beta ROI:

Tc-99 3.5% 0.8%

Beta Lower:	Beta Upper:	Alpha Lower:
0.25	27.80	53.70

Presets:

Count Time:	3	minutes
Alpha:	0	counts
Beta:	0	counts

New

Preselected Report:

>>

Reporting Units: dpm

Preselected Group & Device:

None | None

Sample Count Delay

0.1 minutes (0 to 9,999 minutes)

Count Repetitions

Sample: 1 (1 - 99)

Batch: 1 (1 - 10)

Weak Sample Reject

Disable | Enable

Initial Test Time:

Min Count Rate:

Save As

Background Subtraction

Disable | Enable

Previous Stored | Method Blank

Spillover Correction

Disable | Enable

Sample Activity

Disable | Enable

Alpha Cal. Standard: Am-241 G2-188

Beta Cal. Standard: Tc-99 G2-189 47

Geometry Selection

Geometry: Swipe/Smear

Print

Lab 1590

RM 3104

5-17-11

Sample Report

Batch ID:	Smears - 201105181424	**Count Date:**	5/18/2011 2:24:23PM
Group:	C	**Count Minutes:**	3.00
Device:		**Count Mode:**	Simultaneous
Batch Key:	1595	**Operating Volts:**	1410
Selected Geometry	Swipe/Smear		

Efficiency (%)

Alpha: 7.87 ± 0.07
Beta: 24.51 ± 0.15

Sample ID	Sample Type	Alpha (dpm)	Unc	Alpha MDA (dpm)	Beta (dpm)	Unc	Beta MDA (dpm)
Jnloaded Swipe	LCS	0.00	0.00	11.46	-2.72	2.72	14.64
Tc-99 Eberline Standard	LCS	12.71	7.34	11.46	10356.95	135.28	14.64
Th-230 Eberline Standarc	LCS	31295.27	460.50	11.46	2145.63	55.76	14.64
Jnloaded Swipe	LCS	0.00	0.00	11.46	-1.36	3.04	14.64
20110518143944-C1	Unknown	8.47	5.99	11.46	1.36	3.60	14.64
20110518144304-C2	Unknown	8.47	5.99	11.46	1.36	3.60	14.64
20110518144624-C3	Unknown	4.24	4.24	11.46	2.72	3.85	14.64
20110518144934-C4	Unknown	0.00	0.00	11.46	4.08	4.08	14.64
20110518145254-C5	Unknown	0.00	0.00	11.46	6.80	4.51	14.64
20110518145614-C6	Unknown	0.00	0.00	11.46	5.44	4.30	14.64
20110518145934-C7	Unknown	0.00	0.00	11.46	0.00	3.33	14.64
20110518150244-C8	Unknown	8.47	5.99	11.46	-2.72	2.72	14.64
20110518150604-C9	Unknown	4.24	4.24	11.46	1.36	3.60	14.64
20110518150924-C10	Unknown	0.00	0.00	11.46	0.00	3.33	14.64
Jnloaded Swipe	Background	**Alpha (cpm):** 0.00			**Beta (cpm):** 1.00		

#5 11-20
5-18-11

Rm 3103

Reviewed by: Mark H. Donnell

Print Date 5/18/2011
Print Time 5:30:25PM

Background Report

Batch ID:	Smears - 201105181424	**Count Date:**	5/18/2011 2:24:23PM
Group:	C	**Count Minutes:**	3.00
Device:		**Count Mode:**	Simultaneous
Batch Key:	1595	**Operating Volts:**	1410
Selected Geometry	Swipe/Smear		

Background (cpm)

Alpha Rate: 0.00 ± 0.00 **Beta Rate:** 1.00 ± 0.58

Sample ID	Alpha (cpm)	Unc	Beta (cpm)	Unc	Guard (cpm)
20110518142423-C147	0.00	0.00	0.33	0.33	202.00
20110518142954-C149	1.00	0.58	2,540.00	29.10	198.33
20110518143314-C150	2,463.00	28.65	527.00	13.25	206.67
20110518143634-C142	0.00	0.00	0.67	0.47	202.33
20110518143944-C1	0.67	0.47	1.33	0.67	207.67
20110518144304-C2	0.67	0.47	1.33	0.67	214.67
20110518144624-C3	0.33	0.33	1.67	0.75	198.67
20110518144934-C4	0.00	0.00	2.00	0.82	195.33
20110518145254-C5	0.00	0.00	2.67	0.94	204.00
20110518145614-C6	0.00	0.00	2.33	0.88	219.67
20110518145934-C7	0.00	0.00	1.00	0.58	201.67
20110518150244-C8	0.67	0.47	0.33	0.33	190.33
20110518150604-C9	0.33	0.33	1.33	0.67	202.00
20110518150924-C10	0.00	0.00	1.00	0.58	191.67
20110518151234-C140	0.00	0.00	1.00	0.58	189.00
				Guard Avg Rate:	201.60

Reviewed by: Mark T. Driscoll

Print Date 5/18/2011
Print Time 5:30:16PM

Procedure: Smears

Is Active

Count Mode

Alpha | Alpha then Beta | Simultaneous

Discriminator Selection
Alpha/Beta ROI: Tc-99 3.5% 0.8%

Beta Lower:	Beta Upper:	Alpha Lower:
0.25	27.80	53.70

Presets:

Count Time:	3	minutes
Alpha:	0	counts
Beta:	0	counts

New

Preselected Report: >>

Reporting Units: dpm

Preselected Group & Device: None / None

Sample Count Delay: 0.1 minutes (0 to 9,999 minutes)

Count Repetitions

Sample: 1 (1 - 99)

Batch: 1 (1 - 10)

Weak Sample Reject: Disable | Enable

Initial Test Time:

Min Count Rate:

Save As

Background Subtraction: Disable | Enable | Previous Stored | Method Blank

Spillover Correction: Disable | Enable

Sample Activity: Disable | Enable

Alpha Cal. Standard: Am-241 G2-188

Beta Cal. Standard: Tc-99 G2-189 47

Geometry Selection

Geometry: Swipe/Smear

Print

Key 1595

Rm 3103
Floor 2
5-18-11

Radiological Survey Report

DATE: 12-12-07 LOCATION: 3rd floor Bridge Crane SURVEY NO.: 2007-2478 TIME: 1715

Smear Information DPM/100 cm²

No.	Beta/ Gamma	Alpha (20%)
1	78	<MDA
2	~~46~~ <MDA	
3	<MDA	
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		

Survey Map

This is the Rx building bridge crane radiological survey results. The crane was wiped down with bathroom cleaner ("Scrubbing Bubbles"), "Scotch-Brite" pads and towels. The wipe down was performed from the decking along the west trolley rail and from a man-lift moved along the east side of the east trolley rail. All surfaces that could be reached from those two access path were wipe down. The areas not cleaned are obvious. The surfaces cleaned are free of all loose contamination. However, a uniform level of approximately 125 NCPM is trapped everywhere dried grease is located. (The grease will not come off with scrubbing bubbles.) All measurements are less than 25% DCGL of 574 GCPM except for the main cable. It reads 580 GCPM.
Areas not wiped or surveyed:
1.) Bridge rail beds and trails.
2.) Windlass motor & cable drum.
3.) Under sides & between sides of trolley rail support beams.

Legend: * = Contact; # / # = Contact Reading / General Area; # = General Area. ① = Smear location; Δ = Air Sample.
Note: Readings in mrem/hr unless noted otherwise.

Instrument	Serial Number	Cal. Due Date	Efficiency	Background (CPM)	MDA (DPM)
L-2221-	234988	4/12/08	N/A	→	→
44-142	246233	6/08	.41 (2π@ ¼")	24 254	N/A
L-2929	216263	8/23/08	Bγ=.27, α=.4	Bγ=33, α=0	Bγ=34, α=3
N/A				→	→
Frisker Detector HV = 1050 Vdc		Threshold Voltage = 10 mVdc		Detector cable length = 6 ft.	

Print/Signature of Surveyor: Ned Congdell Date: 12-12-07

Comments: _____

Review By: J R Smith Date: 12/14/07

FNR Decommissioning Project
Reconnaissance Level Scan Survey Form

Survey No: 2007-1946 Survey Unit: 3-3 Pkg. SP-007 Sheet 1 of 2

Date: 9-26-07 Survey Location: Rm 3103

I. Instrument Information

Inst. Set No.	Meter Model	Scaler Serial No.	Detector Model	Detector Serial No.	HV Setting (Vdc)	THR Setting (mVdc)	2π Inst. Eff.	Calibration Due Date
1	2221	187743	43-37	243924	1750	20	.346	1-12-08
2	2221	187743	43-37	243922	1750	20	.356	1-12-08
3	2221	218598	44-142	240716	1100	35		6-22-08
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

NOTE: All cables 6-ft RG-58 (LMI 44-142, 44-9, HP-210, or 44-92 probes) or 15-ft RG-58 (LMI 43-37 gas-flow hand-held) unless otherwise noted in the comments below.

Comments: N/A

Initial Performance Test Performed & Satisfactory: [signature] 9-26-07
Initial / Date

II. Background Measurements

Inst. Set No.	Grid or Location	Count Time (min.)	Counts per Minute (cpm)
1	BKG 1	1	1280
1	BKG 2	1	1243
1	BKG 3	1	1453
2	# BKG 1	1	1142
2	# BKG 2	1	1187
2	# BKG 3	1	1183
1	AVG	N/A	1325
2	AVG		1170
3	AVG		342
3	BKG 1 BKG 2 BKG 3	1 1 1	365 314 347

III. Total Surface Activity Measurements

Inst. Set No.	Grid or Location	Count Time (min.)	Counts per Minute (cpm)
	N/A		
		N/A	

Each of the demarked grids (or locations) on the attached survey map has been scanned and do not exceed the action level of 1,750 dpm/100-cm^2, unless otherwise noted on the attached survey map.

Post-Survey Performance Test Performed & Satisfactory: [signature] KG 9-26-07
Initial / Date

Survey Tech: Robert Gillespie/[signature] Date: 9-26-07
(print / sign)

Reviewed By (Print/Sign): Rock Neveau/[signature] Date: 10-3-07
(print / sign)

Survey Log No. 2007-1946

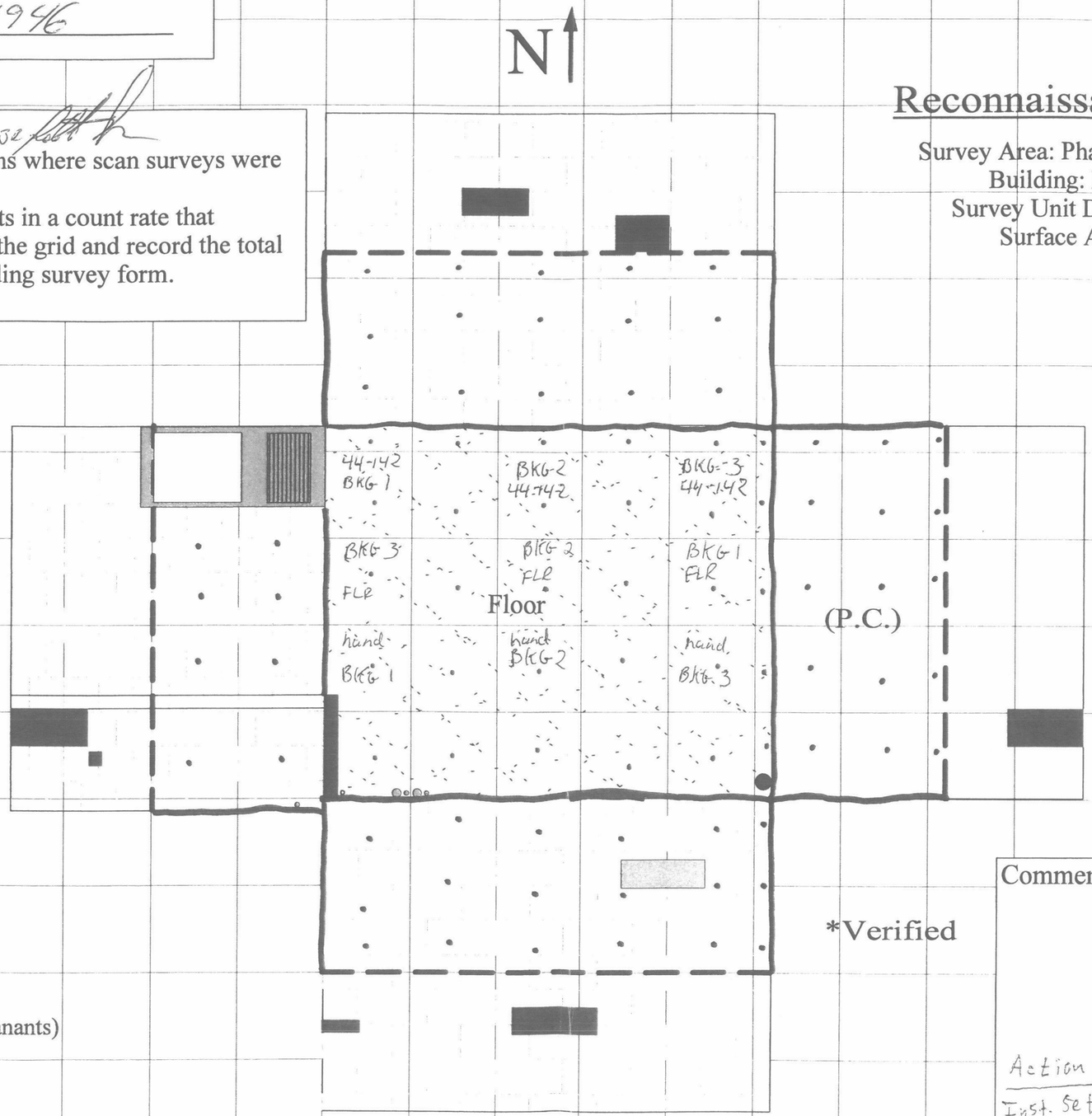
Sheet 2 of 2

Survey Technician: Robert Hayes

Mark all grids and survey locations where scan surveys were performed.
If scan survey measurement results in a count rate that exceeds the action level, number the grid and record the total surface activity on the corresponding survey form.

Reconnaissance Level Scan Survey Map

Survey Area: Phase 1 Survey Unit: 3-3 Classification: 1
Building: Ford Nuclear Reactor Room: 3103
Survey Unit Description: A- Structure Interior Surface
Surface Area: 121.9 sq. m 1 Grid= 1 meter
FNRDP-DWG-03_flr



Map Legend

- Pipe Penetration
- Cinder Block Wall
- Concrete (formally tiled w/ mastic remanants)
- (P.C.) - Poured Concrete
- Opening
- Inaccessible Area
- 2 meter mark (from floor)

Comments:

- denotes where Inst. set # 3 was used
- denotes where Inst. set #2 was used
- denotes where Inst. set #~~3~~ 1 was used 4-9-2007

100 % of denoted areas scanned.

Action Levels (AL)

Inst. Set #1: 3107 g·cpm
Inst. set #2: 2957 g·cpm
Inst. set #3: 664 g·cpm

No scan surveys exceeded the stated Action levels.

FNR Decommissioning Project
Reconnaissance Level Scan Survey Form

Survey No: 2007-1948 Survey Unit: 3-2 Pkg. SP-007 Sheet 1 of 2

Date: 9-27-07 Survey Location: Room 3102

I. Instrument Information

Inst. Set No.	Meter Model	Scaler Serial No.	Detector Model	Detector Serial No.	HV Setting (Vdc)	THR Setting (mVdc)	2π Inst. Eff.	Calibration Due Date
1	2221	187743	43-37	243924	1750	20	.306	1-12-08
2	2221	187743	43-37	243922	1750	20	.357	1-12-08
3	2221	228810	44-142	243830	1200	35	.394	4-27-08
			N					
				A				

NOTE: All cables 6-ft RG-58 (LMI 44-142, 44-9, HP-210, or 44-92 probes) or 15-ft RG-58 (LMI 43-37 gas-flow hand-held) unless otherwise noted in the comments below.

* Comments: Inst. set 3 used in corners of FLR & wall where 43-37 wouldn't fit.

Initial Performance Test Performed & Satisfactory: JP 9-27-07
Initial / Date

II. Background Measurements

Inst. Set No.	Grid or Location	Count Time (min.)	Counts per Minute (cpm)
1	BKG FLR 1	1	1348
1	BKG FLR 2	1	1226
1	BKG FLR 3	1	1448
1	AVG		1341
2	BKG wall 1	1	1318
2	BKG wall 2	1	1238
2	BKG wall 3	1	1310
2	AVG		1289
3	Corner BKG 1	1	285
3	corner BKG 2	1	350
3	corner BKG 3	1	329
3	AVG		321

III. Total Surface Activity Measurements

Inst. Set No.	Grid or Location	Count Time (min.)	Counts per Minute (cpm)

Comments:
Action Level Inst(1) 3132 Action Level Inst(2) 3082 Action Level(3) 654

Each of the demarked grids (or locations) on the attached survey map has been scanned and do not exceed the action level of 1,750 dpm/100-cm^2, unless otherwise noted on the attached survey map.

Post-Survey Performance Test Performed & Satisfactory: JP 9-27-07
Initial / Date

Survey Tech: Robert C Gregor / Robert C Gregor Date: 9-27-07
(print / sign)

Reviewed By (Print/Sign): Rick Nevenn / Rick Nevenn Date: 10-04-07

Filename: FSS Characterization SCAN Survey Forms_Rev01 Retention: LP+10

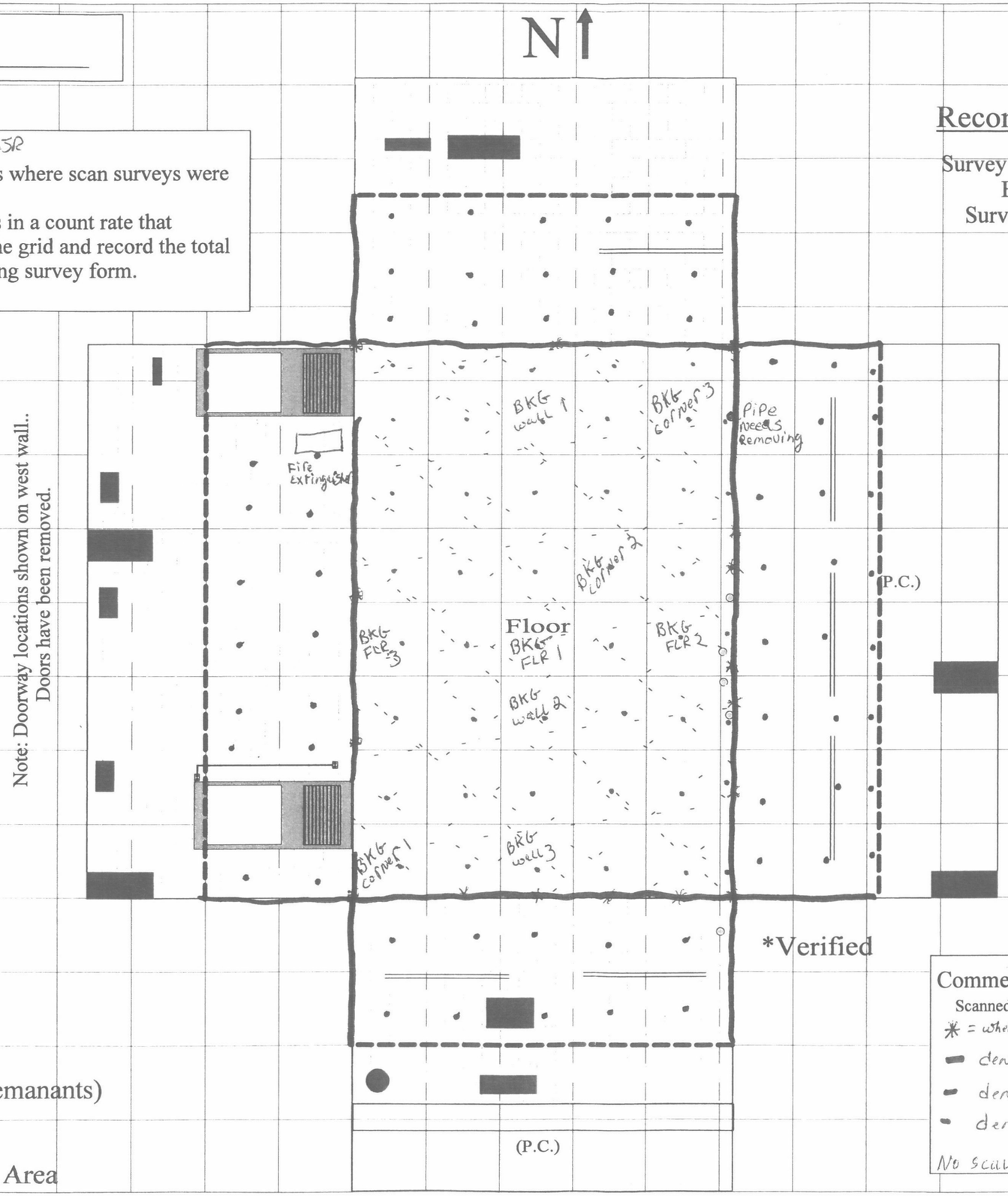
Survey Log No. 2007-1948

Sheet 2 of 2

Survey Technician: Robert C Gregg SR
Mark all grids and survey locations where scan surveys were performed.
If scan survey measurement results in a count rate that exceeds the action level, number the grid and record the total surface activity on the corresponding survey form.

Reconnaissance Level Scan Survey Map

Survey Area: Phase 1 Survey Unit: 3-2 Classification: 2
Building: Ford Nuclear Reactor Room: 3102
Survey Unit Description: A- Structure Interior Surface
Total Room Surface Area: 178 sq. m
Grid Spacing for Survey Units: 1 m
FNRDP-DWG-04_flr



Note: Doorway locations shown on west wall..
Doors have been removed.

*Verified

Map Legend

- Electrical Strip
- Pipe Penetration
- Cinder Block Wall
- Concrete (formally tiled w/ mastic remanants)
- (P.C.) - Poured Concrete
- Opening or Inaccessible Area

Comments:

Scanned Surface Area: ~ 85.5 sq. m (floor and walls < 2 m)

* = where 44-142 used due to 43-37 geometry was to large.
- denotes where INST SET #3 was used
- denotes where INST SET # 2 was used
- denotes where INST SET # 1 was used.

No scan survey results exceed Action Levels.

FNR Decommissioning Project
Reconnaissance Level Scan Survey Form

Survey No: 2007-1961 Survey Unit: 3-1 Pkg. SP-007 Sheet 1 of 2

Date: 9-24-07 Survey Location: Room 3/01

I. Instrument Information

Inst. Set No.	Meter Model	Scaler Serial No.	Detector Model	Detector Serial No.	HV Setting (Vdc)	THR Setting (mVdc)	2π Inst. Eff.	Calibration Due Date (Scaler)	Calibration Due Date (Detector)
1	2221	187743	43-37	243924	1750	2	.346	1-12-08	6-25-08
2	2221	187743	43-37	243922	1750	2	.356	1-12-08	7-17-08
3	2221	234988	44-142	246233	1050	10	.407	4-12-08	6-08
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

NOTE: All cables 6-ft RG-58 (LMI 44-142, 44-9, HP-210, or 44-92 probes) or 15-ft RG-58 (LMI 43-37 gas-flow hand-held) unless otherwise noted in the comments below.

Comments: BKG from FCR monitor used for hand monitor, as per R. Nevieu. N/A

Initial Performance Test Performed & Satisfactory: KG 9-24-07
Initial / Date

II. Background Measurements

Inst. Set No.	Grid or Location	Count Time (min.)	Counts per Minute (cpm)
1	BKG #1	1	1271
1	BKG #2	1	1295
1	BKG #3	1	1251
1 Avg	AVG	N/A	1272
2	BKG #1	1	1271
2	BKG #2	1	1295
2	BKG #3	1	1251
2 Avg	AVG	N/A	1272
3	#1 BKG corner	1	319
3	#2 BKG corner	1	348
3	#3 BKG corner	1	297
3 Avg	AVG	N/A	321

III. Total Surface Activity Measurements

Inst. Set No.	Grid or Location	Count Time (min.)	Counts per Minute (cpm)
		N/A	

Comments: Inst set #1, 2 action set Level 3057, INST set #3 action level 644.

Each of the demarked grids (or locations) on the attached survey map has been scanned and do not exceed the action level of 1,750 dpm/100-cm^2, unless otherwise noted on the attached survey map.

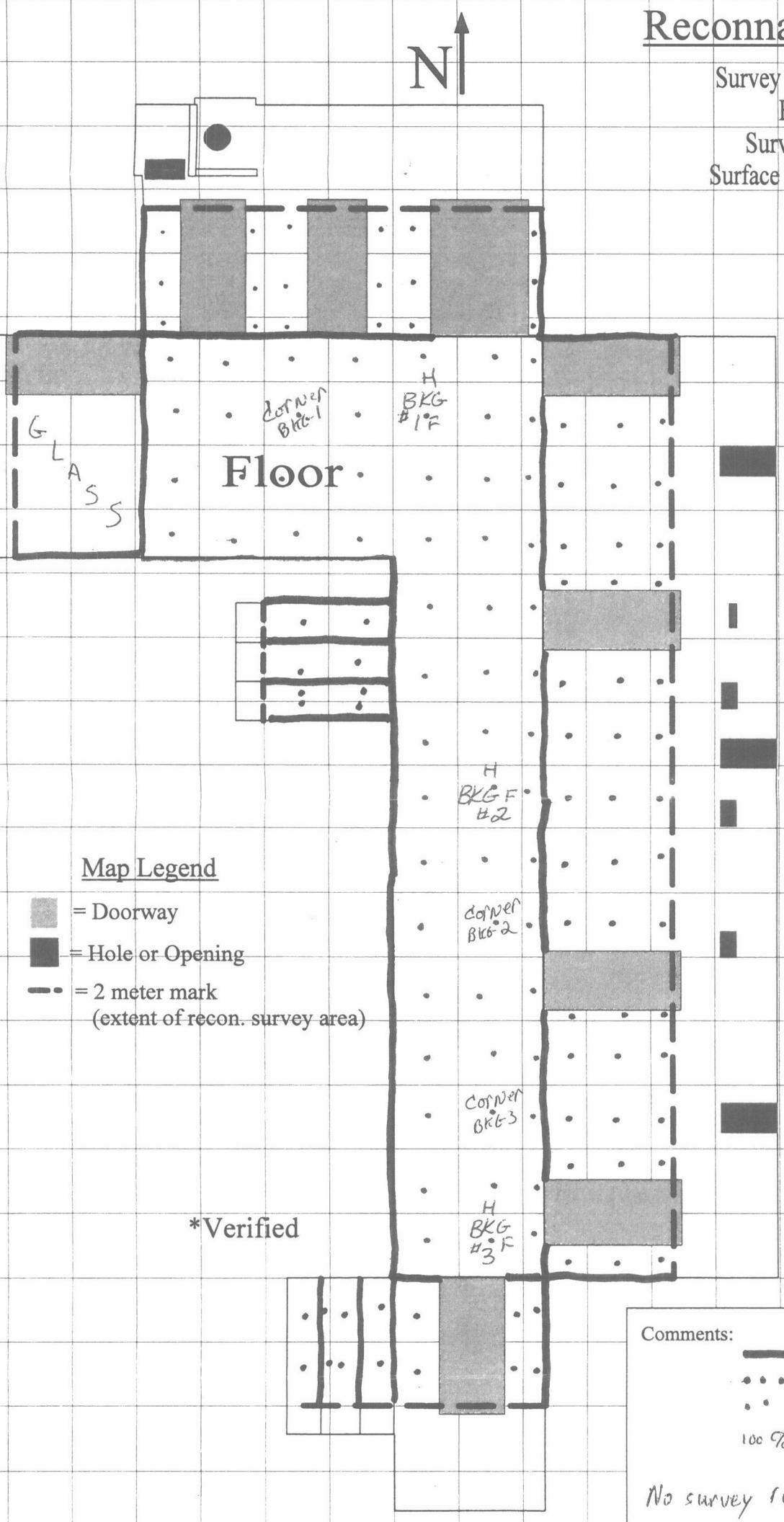
Post-Survey Performance Test Performed & Satisfactory: 9/24/07
Initial / Date

Survey Tech (print/sign): Ken Gaynor / Ken Gaynor Date: 9/24/2007

Reviewed By (print/sign): Rock Nevieu / Date: 10-03-07

Reconnaissance Level Scan Survey Map

Survey Area: Phase 1 Survey Unit: 3-1 Classification: 2
Building: Ford Nuclear Reactor Room: 3101
Survey Unit Description: A- Structure Interior Surface
Surface Area: 160 sq. m Grid Spacing for Survey Units: 1m
FNRDP-DWG-02_flr
Survey Package: SP-007



Survey Log No. 2007 - 1961

Survey Technician:
Mark all grids and survey locations where scan surveys were performed.
If scan survey measurement results in a count rate that exceeds the action level, number the grid and record the total surface activity on the corresponding survey form.

Comments:

denotes where INST set # 3 was used.
denotes where INST set # 2 was used.
denotes where INST set # 1 was used.

100 % of these location were servey ed.

No survey results exceeded Action Levels.

FNR Decommissioning Project
Reconnaissance Level Scan Survey Form

Survey No: 2007-2016 Survey Unit: 3-5 Pkg. 6p-007 Sheet 1 of 2

Date: 10/8/2007 Survey Location: Room 3104 3rd Floor

I. Instrument Information

Inst. Set No.	Meter Model	Scaler Serial No.	Detector Model	Detector Serial No.	HV Setting (Vdc)	THR Setting (mVdc)	2π Inst. Eff.	Calibration Due Date (Scaler)	Calibration Due Date (Detector)
1	2221	187743	43-37	243922	1750	20		1-12-08	6/25/08
2	2221	187743	43-37	243924	1750	20		1-12-08	6/25/08
3	2221	218598	44-142	240716	1100	35		6/22/2008	6/22/2008
				N/A					

NOTE: All cables 6-ft RG-58 (LMI 44-142, 44-9, HP-210, or 44-92 probes) or 15-ft RG-58 (LMI 43-37 gas-flow hand-held) unless otherwise noted in the comments below.

Comments: Inst #1 used on Floor, Inst #2 used on Wall, Inst #3 used on Coners

Initial Performance Test Performed & Satisfactory: (K) 10/8/2007
Initial / Date

II. Background Measurements

Inst. Set No.	Grid or Location	Count Time (min.)	Counts per Minute (cpm)
1	#17	1	1298
1	#20	1	1269
1	# 23	1	1409
1	AVG	N/A	1322
2	#2	1	1044
2	#4	1	1106
2	#7	1	1107
2	AVG	N/A	1085
3	#34	1	309
3	#36	1	307
3	# 31	1	322
3	AVG	N/A	312

III. Total Surface Activity Measurements

Inst. Set No.	Grid or Location	Count Time (min.)	Counts per Minute (cpm)
	N/A		

Comments:
Action Level for Set #1= 3107, Action Level Set #2=2882, Action Level #3 = 62

Each of the demarked grids (or locations) on the attached survey map has been scanned and do not exceed the action level of 1,750 dpm/100-cm^2, unless otherwise noted on the attached survey map.

Post-Survey Performance Test Performed & Satisfactory: (K) 10/8/2007
Initial / Date

Survey Tech (print/sign): Ken Gaynor / Ken Gaynor Date: 10/8/2007

Reviewed By (print/sign): Rock Neveau / Date: 10-08-07

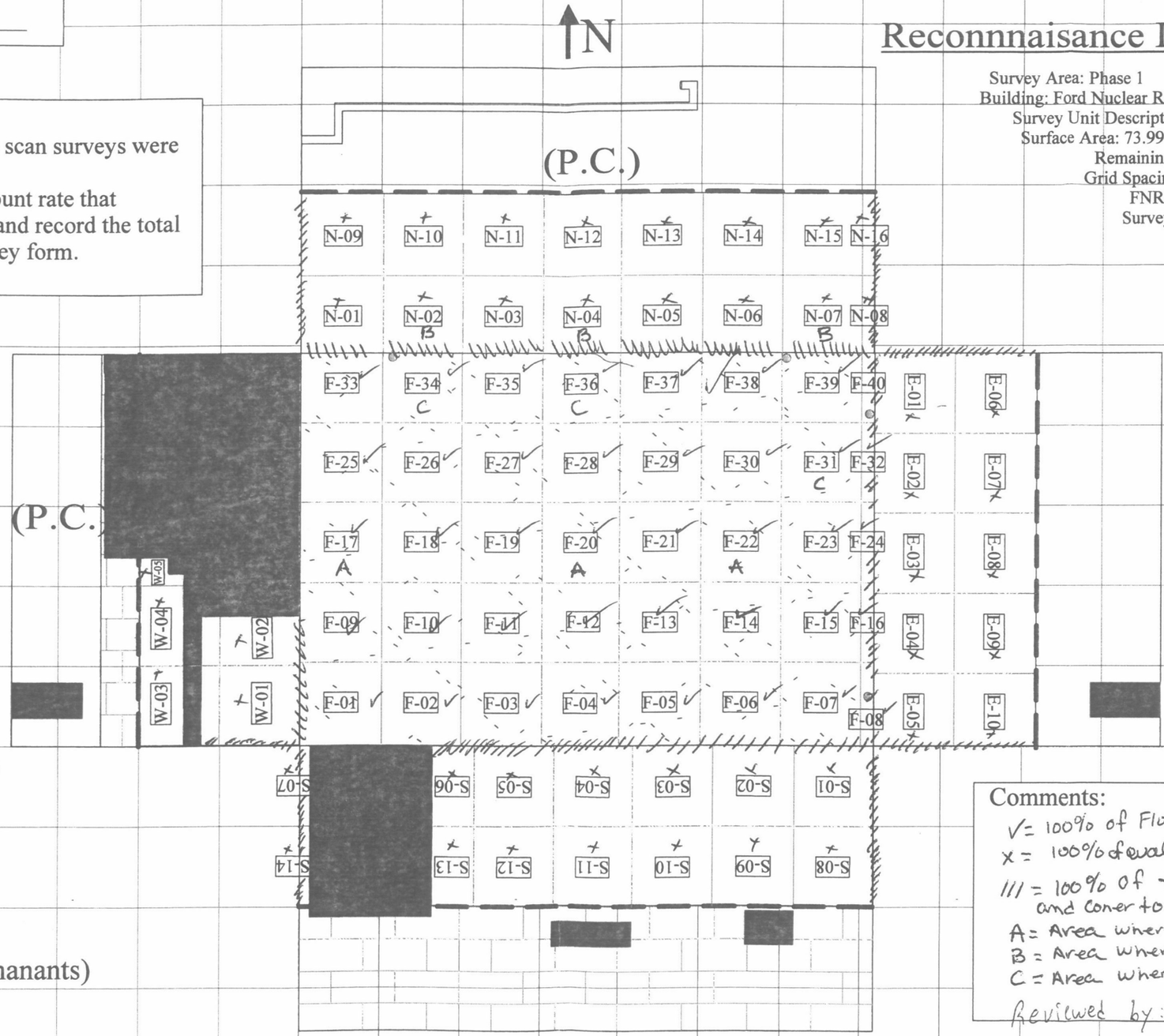
Sheet 1 of 2

Survey Log No. 2007-2016

Reconnnaisance Level Scan Survey Map

Survey Area: Phase 1 Survey Unit: 3-5 Classification: 1
Building: Ford Nuclear Reactor Room: 3104 - Floor/L Walls
Survey Unit Description: A- Structure Interior Surface
Surface Area: 73.99 sq. m(Floor & Walls up to 2m)
Remaining Walls: 38.15 sq. m.
Grid Spacing for Survey Units: 1m
FNRDP-DWG-01_flr
Survey Package SP-007

Survey Technician: Ken Gaynor
Mark all grids and survey locations where scan surveys were performed.
If scan survey measurement results in a count rate that exceeds the action level, number the grid and record the total surface activity on the corresponding survey form.



Map Legend

- ● - Pipe Penetration
- - Cinder Block Wall
- - Concrete (formally tiled w/ mortic remanants)
- (P.C.) - Poured Concrete
- - Opening or Inaccessible Area

NOTE: South wall doors have been removed.

*Verified

Comments:
√ = 100% of Floor Area done
x = 100% of walls Area done
/// = 100% of the coners wall to floor Area and coner to coner
A = Area where BKG was taken for Floor
B = Area where BKG was taken for wall
C = Area where BKG was taken for coners

Reviewed by: Rock Nevem 10.08.07

FNR Decommissioning Project
Reconnaissance Level Scan Survey Form

Survey No: 2007-2034 Survey Unit: SP-010-03 Pkg. SP-010 Sheet 1 of 2

Date: 10-9-07 Survey Location: Pool Floor Westside hatches area

I. Instrument Information

Inst. Set No.	Meter Model	Scaler Serial No.	Detector Model	Detector Serial No.	HV Setting (Vdc)	THR Setting (mVdc)	2π Inst. Eff.	Calibration Due Date (Scaler)	Calibration Due Date (Detector)
1	2221	187743	43-37	243924	1750	2	0.346	1-12-08	6-25-08
2	2221	228810	44-142	243830	1200	35	0.391	4-27-08	4-27-08
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

NOTE: All cables 6-ft RG-58 (LMI 44-142, 44-9, HP-210, or 44-92 probes) or 15-ft RG-58 (LMI 43-37 gas-flow hand-held) unless otherwise noted in the comments below.

Comments: N/A

Initial Performance Test Performed & Satisfactory: NC/K 10-9-07
Initial / Date

II. Background Measurements

Inst. Set No.	Grid or Location	Count Time (min.)	Counts per Minute (cpm)
1	hatch #1	1	1284
1	Between hatch 2,3	1	1177
1	hatch #4	1	1152
1	AVG	N/A	1204
1	Action Limit	N/A	2982
2	hatch #1	1	351
2	Between hatch 2,3	1	407
2	hatch #4	1	359
2	AVg.	N/A	372
2	action Limit	N/A	694
N/A	N/A	N/A	N/A

III. Total Surface Activity Measurements

Inst. Set No.	Grid or Location	Count Time (min.)	Counts per Minute (cpm)
	-SEE MAP-		

Comments:
Attached map has BKG location's, static 1 min measurement locations for Ins. set 1 and 2,

Each of the demarked grids (or locations) on the attached survey map has been scanned and do not exceed the action level of 1,750 dpm/100-cm^2, unless otherwise noted on the attached survey map.

Post-Survey Performance Test Performed & Satisfactory: Na K 10-9-07
Initial / Date

Survey Tech (print/sign): Robert C Gregg / Ken Gaynor Date: 10-9-07

Reviewed By (print/sign): R Nevem / Ken Gaynor Date: 10-15-07

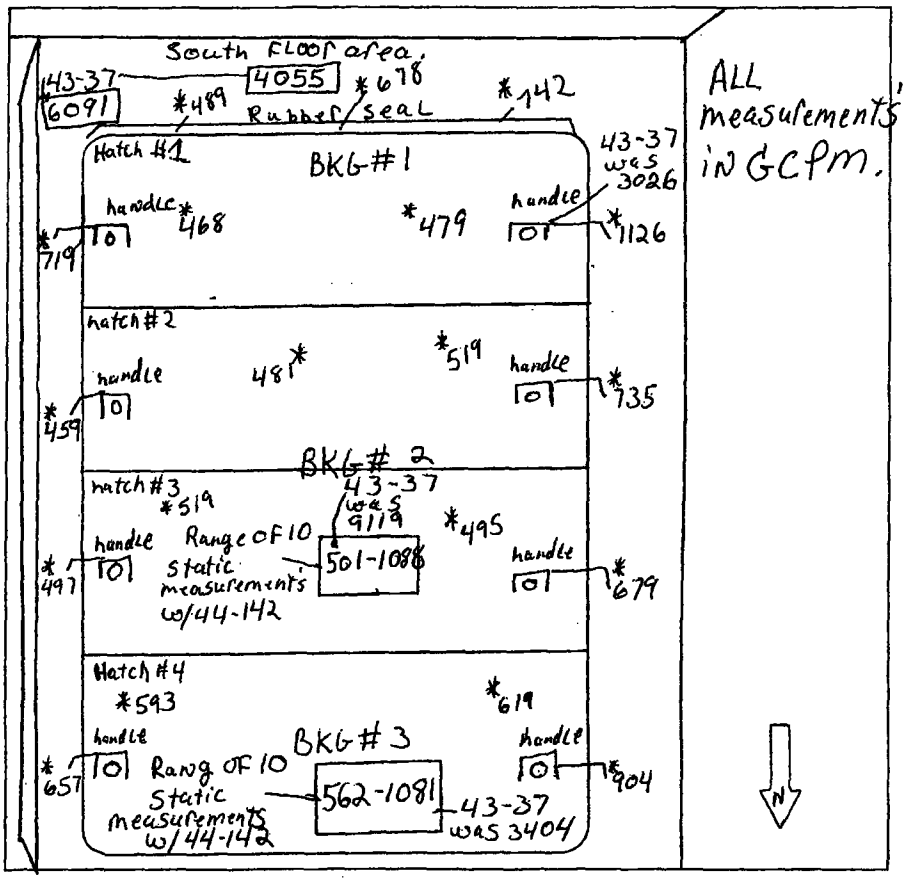
Radiological Survey Report

DATE: 10-9-07 LOCATION: Pool Floor west side hatches area. SURVEY NO.: 2007-2034 TIME: 1500

Smear Information N/A

No.	Beta/ Gamma	~~Alpha (20%)~~ N/A
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11	N/A	
12		
13		
14		
15		
16		
17		
18		
19		
20		

Survey Map



Legend: * = Contact; # / # = Contact Reading / General Area; # = General Area. ① = Smear location; Δ = Air Sample.
Note: Readings in mrem/hr unless noted otherwise.

Instrument	Serial Number	Cal. Due Date	Efficiency	Background (CPM)	MDA (DPM)
N/A	N/A	N/A	N/A	N/A	N/A

Frisker Detector HV = ~~N/A~~ Vdc | Threshold Voltage = N/A mVdc | Detector cable length = N/A ft. N/A

Print/Signature of Surveyor: Robert Chavez / Ken Gaynor / Ken Gaynor Date: 10-9-07

Comments: *44-142 used on handles, Random 2 SPOTS/hatch and Along 10-mm South & N most hatch (#2) Rubber seal. 43-37 used 100% scan survey of hatches & South FLOOR area.

Review By: Rick Nevreau / Date: 10-15-07

FNR Decommissioning Project
Reconnaissance Level Scan Survey Form

Survey No: 2007-2058 Survey Unit: SP-010-03 Pkg. SP-007 Sheet 1 of 2

Date: 10-15-07 Survey Location: Rx Pool Floor Reconnaissance

I. Instrument Information

Inst. Set No.	Meter Model	Scaler Serial No.	Detector Model	Detector Serial No.	HV Setting (Vdc)	THR Setting (mVdc)	2π Inst. Eff.	Calibration Due Date (Scaler)	Calibration Due Date (Detector)
1	2221	187743	43-37	243924	1750	20	0.346	12-12-08	6-25-08
2	2221	187743	43-37	243922	1750	20	0.356	12-12-08	7-17-08
				N					
					A				

NOTE: All cables 6-ft RG-58 (LMI 44-142, 44-9, HP-210, or 44-92 probes) or 15-ft RG-58 (LMI 43-37 gas-flow hand-held) unless otherwise noted in the comments below.

Comments: N/A

Initial Performance Test Performed & Satisfactory: RG 10-15-07 Initial / Date

II. Background Measurements

Inst. Set No.	Grid or Location	Count Time (min.)	Counts per Minute (cpm)
1	BKG#1	1	1217
1	BKG#2	1	1273
1	BKG#3	1	1221
	AVG	N/A	1237
	ActionLevel	N/A	2832
2	BKG#1	1	952
2	BKG#2	1	906
2	BKG#3	1	887
	AVG	915	2745 10-15-07
	ActionLevel		2782
	N		
	A		

III. Total Surface Activity Measurements

Inst. Set No.	Grid or Location	Count Time (min.)	Counts per Minute (cpm)
1	F-08	1	3149
1	F-24	1	3198
1	F-61	1	4349
	N		
	A		

Comments: See Pg 2 for Map.

Each of the demarked grids (or locations) on the attached survey map has been scanned and do not exceed the action level of 1,750 dpm/100-cm^2, unless otherwise noted on the attached survey map.

Post-Survey Performance Test Performed & Satisfactory: RG 101507 Initial / Date

Survey Tech (print/sign): Robert C Hegg Date: 10-15-07

Reviewed By (print/sign): R. Nevcan Date: 10-15-07

Radiological Survey Report

Reconnaissance

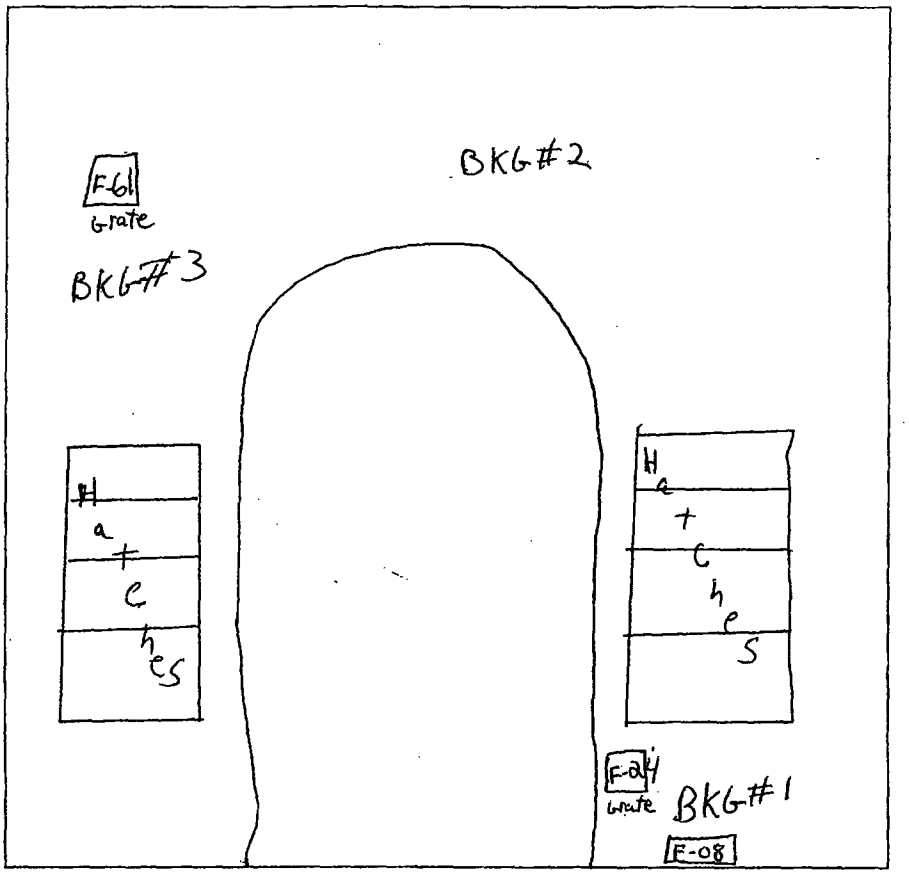
DATE: 10/5/07 LOCATION: Rx Pool Floor SURVEY NO.: 2007-2058 TIME: 1300

Including East Notches

Smear Information N/A

No.	Beta/ Gamma	Alpha (20%)
1	N/A	N/A
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		

Survey Map



Legend: * = Contact; # / # = Contact Reading / General Area; # = General Area. ① = Smear location; Δ = Air Sample.

Note: Readings in mrem/hr unless noted otherwise.

Instrument	Serial Number	Cal. Due Date	Efficiency	Background (CPM)	MDA (DPM)
		N			
			A		

Frisker Detector HV = Vdc | Threshold Voltage = mVdc | Detector cable length = ft.

Print/Signature of Surveyor: Robert Cobley SR [signature] Date: 10-15-07

Comments: Floors scanned, walls below 2 meters scanned except south Rx cavity wall. 44-142 needed on wall joints and wall/floor joints

Review By: Rock Neveau / [signature] Date: 10-15-07

FNR Decommissioning Project
Reconnaissance Level Scan Survey Form

Survey No: 2007-2116 Survey Unit: 3-10 Pkg. SP-010-04 Sheet 1 of 2

Date: 10-24-07 Survey Location: Pool Floor South Wall Reconnaissance Survey

I. Instrument Information

Inst. Set No.	Meter Model	Scaler Serial No.	Detector Model	Detector Serial No.	HV Setting (Vdc)	THR Setting (mVdc)	2π Inst. Eff.	Calibration Due Date (Scaler)	Calibration Due Date (Detector)
1	2221	187743	43-37	243922	1750	20	0.356	1-12-08	7-17-08
				N					
					A				

NOTE: All cables 6-ft RG-58 (LMI 44-142, 44-9, HP-210, or 44-92 probes) or 15-ft RG-58 (LMI 43-37 gas-flow hand-held) unless otherwise noted in the comments below.

Comments: All area's between S-01 & S-104 (S-47 not scanned) scanned 100 %

Initial Performance Test Performed & Satisfactory: h 10-24-07
Initial / Date

II. Background Measurements

Inst. Set No.	Grid or Location	Count Time (min.)	Counts per Minute (cpm)
1	S-15	1	936
1	S-55	1	997
1	S-95	1	931
1	AVG	N/A	954
1	Action Limit	N/A	2736
1	S-46	1	888
1	S-72	1	903
1	S-98	1	1017
1	AVG	N/A	936
1	Action Limit	N/A	2718
	N		
	A		

III. Total Surface Activity Measurements

Inst. Set No.	Grid or Location	Count Time (min.)	Counts per Minute (cpm)
	N		
		A	

Comments: N/A

Each of the demarked grids (or locations) on the attached survey map has been scanned and do not exceed the action level of 1,750 dpm/100-cm^2, unless otherwise noted on the attached survey map.

Post-Survey Performance Test Performed & Satisfactory: h 10-24-07
Initial / Date

Survey Tech (print/sign): Robert C Hegstrom Date: 10-24-07

Reviewed By (print/sign): Rock Nevenn Date: 10-24-07

Filename: FSS Characterization SCAN Survey Forms_Rev02 Retention: LP+10

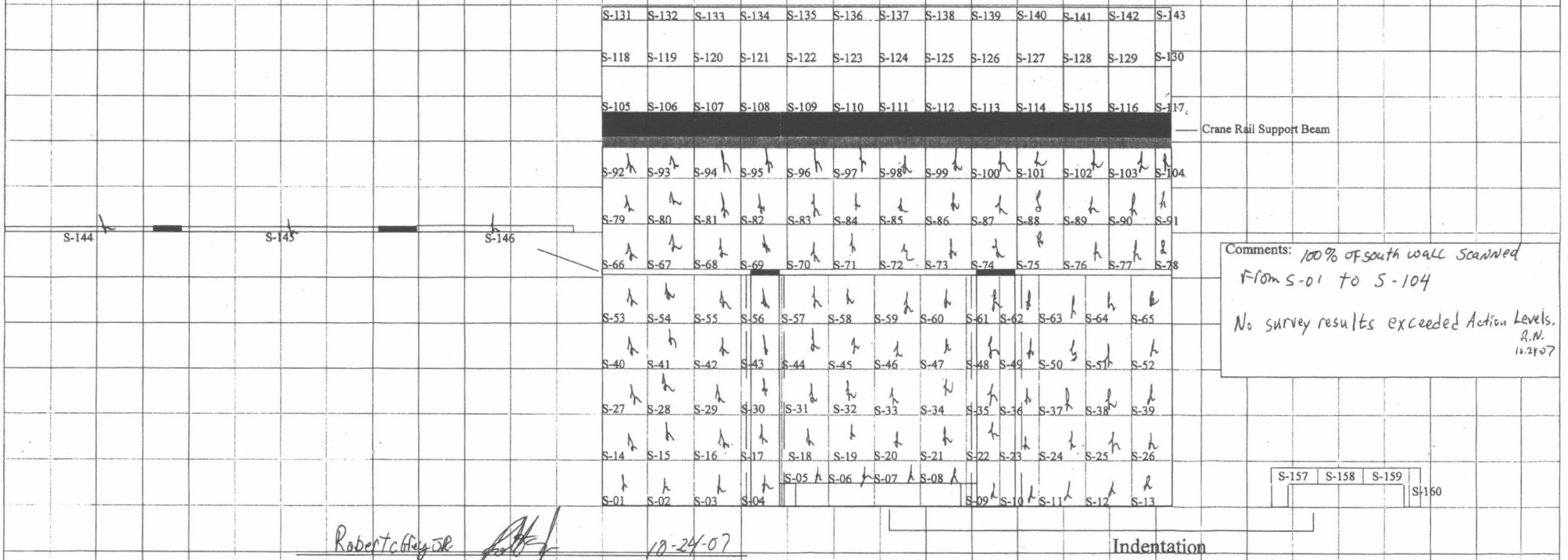
Sheet 2 of 2

Survey Log No. 2007-2116

Reconnnaisance Level Scan Survey Map

Survey Area: Phase 1 Survey Unit: 3-10 Classification: 1
Building: Ford Nuclear Reactor Room: 3101A - South Wall
Survey Unit Description: A- Structure Interior Surface
Surface Area: 158.5 sq. m(Floor & Walls up to 2m)
Grid Spacing for Survey Units: 1m
FNRDP-DWG-72_SW
Survey Package SP-010-4

Survey Technician: Robert C Hegy JR
Mark all grids and survey locations where scan surveys were performed.
If scan survey measurement results in a count rate that exceeds the action level, number the grid and record the total surface activity on the corresponding survey form.



Comments: 100% of south wall scanned from S-01 to S-104

No survey results exceeded Action Levels.
R.N.
10.24.07

Robert C Hegy JR — 10-24-07

RPT Print Name Signature Date

FNR Decommissioning Project
Reconnaissance Level Scan Survey Form

Survey No: 2007-2155 Survey Unit: SP-007 Pkg. N/A Sheet 1 of 2

Date: 10-29-07 Survey Location: 3101 Recon.

I. Instrument Information

Inst. Set No.	Meter Model	Scaler Serial No.	Detector Model	Detector Serial No.	HV Setting (Vdc)	THR Setting (mVdc)	2π Inst. Eff.	Calibration Due Date (Scaler)	Calibration Due Date (Detector)
1	2221	187143	43-37	243922	1750	20		12-12-08	7-17-08
2	2221	228810	44-142	243830	1200	35		4-27-08	4-27-08
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

NOTE: All cables 6-ft RG-58 (LMI 44-142, 44-9, HP-210, or 44-92 probes) or 15-ft RG-58 (LMI 43-37 gas-flow hand-held) unless otherwise noted in the comments below.

Comments: 44-142 used in corners, door Frames, & where walls meet Floor. 100%

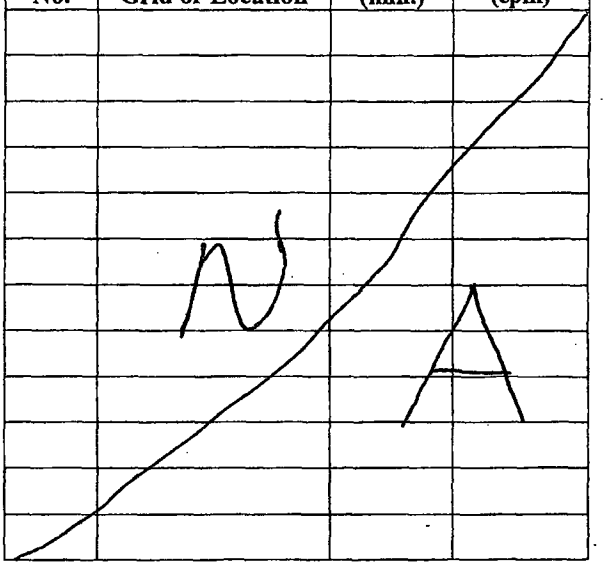
Initial Performance Test Performed & Satisfactory: [signature] 10-29-07
Initial / Date

II. Background Measurements

Inst. Set No.	Grid or Location	Count Time (min.)	Counts per Minute (cpm)
1	BKG #1	1	1036
1	#2	1	1029
1	#3	1	1016
1	AVG	N/A	1027
1	Action Level	N/A	3007
2	BKG #1	1	302
2	#2	1	315
2	#3	1	318
2	AVG	N/A	312
2	Action Level	N/A	644
N/A	N/A	N/A	N/A

III. Total Surface Activity Measurements

Inst. Set No.	Grid or Location	Count Time (min.)	Counts per Minute (cpm)



Comments: N/A

Each of the demarked grids (or locations) on the attached survey map has been scanned and do not exceed the action level of 1,750 dpm/100-cm^2, unless otherwise noted on the attached survey map.

Post-Survey Performance Test Performed & Satisfactory: [signature] 10-29-07
Initial / Date

Survey Tech (print/sign): Robert C Heyse [signature] Date: 10-29-07

Reviewed By (print/sign): J R Smith [signature] Date: 11/2/07

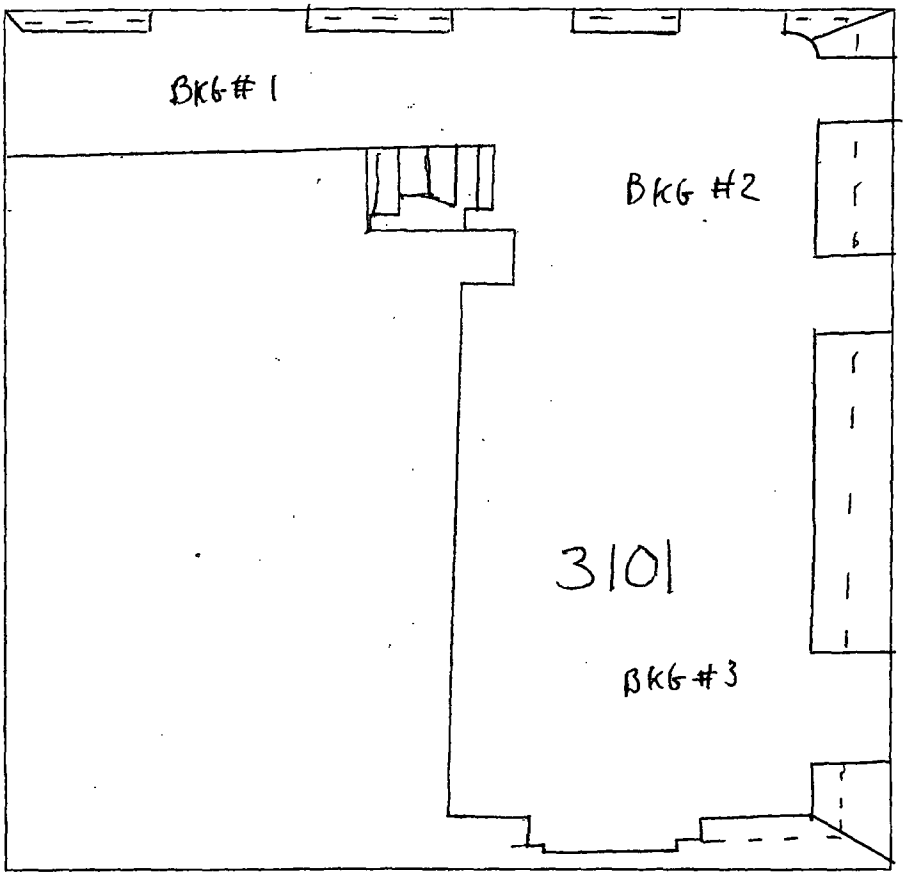
Radiological Survey Report

DATE: 10-29-07 LOCATION: 3101 Recon. SURVEY NO.: 2007-2155 TIME: 1100

Smear Information N/A

No.	Beta/ Gamma	Alpha (20%)
1		
2		
3		
4		
5		
6		
7		
8		
9	N/A	
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		

Survey Map



Legend: * = Contact; # / # = Contact Reading / General Area; # = General Area. ① = Smear location; Δ = Air Sample.
Note: Readings in mrem/hr unless noted otherwise.

Instrument	Serial Number	Cal. Due Date	Efficiency	Background (CPM)	MDA (DPM)
See Page One				N/A	N/A

Frisker Detector HV = N/A Vdc | Threshold Voltage = N/A mVdc | Detector cable length = N/A ft.

Print/Signature of Surveyor: Robert C Heyse / Robert C Heyse Date: 10-29-07

Comments: 43-37 used to scan 2M and Below, 44-142 used in corners and where Floor meets wall, and door jams.

Review By: J R Smith Date: 11/2/07

FNR Decommissioning Project
Reconnaissance Level Scan Survey Form

Survey No: 2007-2188 Survey Unit: SP-007 Pkg. N/A Sheet 1 of 2

Date: 10/29/07 Survey Location: Fuel Vault (3rd floor)

I. Instrument Information

Inst. Set No.	Meter Model	Scaler Serial No.	Detector Model	Detector Serial No.	HV Setting (Vdc)	THR Setting (mVdc)	2π Inst. Eff.	Calibration Due Date (Scaler)	Calibration Due Date (Detector)
1	2221	218598	44-142	240716	1100	35		6-22-08	6-08
2	2221	187713	43-37	243922	1750	20		12-12-08	7-17-08
3	2221	187713	43-37	243924	1750	20		12-12-08	6-25-08
	N/A		N/A		N/A	N/A		N/A	N/A

NOTE: All cables 6-ft RG-58 (LMI 44-142, 44-9, HP-210, or 44-92 probes) or 15-ft RG-58 (LMI 43-37 gas-flow hand-held) unless otherwise noted in the comments below.

Comments: Action Level for set #1: 754 gcpm, Set #2: 3282 gcpm, Set #3: 3557

Initial Performance Test Performed & Satisfactory: PLE 10/29/07
Initial / Date

II. Background Measurements

Inst. Set No.	Grid or Location	Count Time (min.)	Counts per Minute (cpm)
1	BKG-1	1	418
1	BKG-2	1	428
1	BKG-3	1	444
2	BKG-1	1	1482
2	BKG-2	1	1498
2	BKG-3	1	1505
3	BKG-1	1	1712
3	BKG-2	1	1829
3	BKG-3	1	1730
1	Avg	1	430
2	Avg	1	1495
3	Avg	1	1757

III. Total Surface Activity Measurements

Inst. Set No.	Grid or Location	Count Time (min.)	Counts per Minute (cpm)
	N/A		

Comments: all surfaces 100% scanned.

Each of the demarked grids (or locations) on the attached survey map has been scanned and do not exceed the action level of 1,750 dpm/100-cm^2, unless otherwise noted on the attached survey map.

Post-Survey Performance Test Performed & Satisfactory: PLE 10-29-07
Initial / Date

Survey Tech (print/sign): Paul R Emert Paul Emert Date: 10/29/07

Reviewed By (print/sign): J M Smith Date: 11/2/07

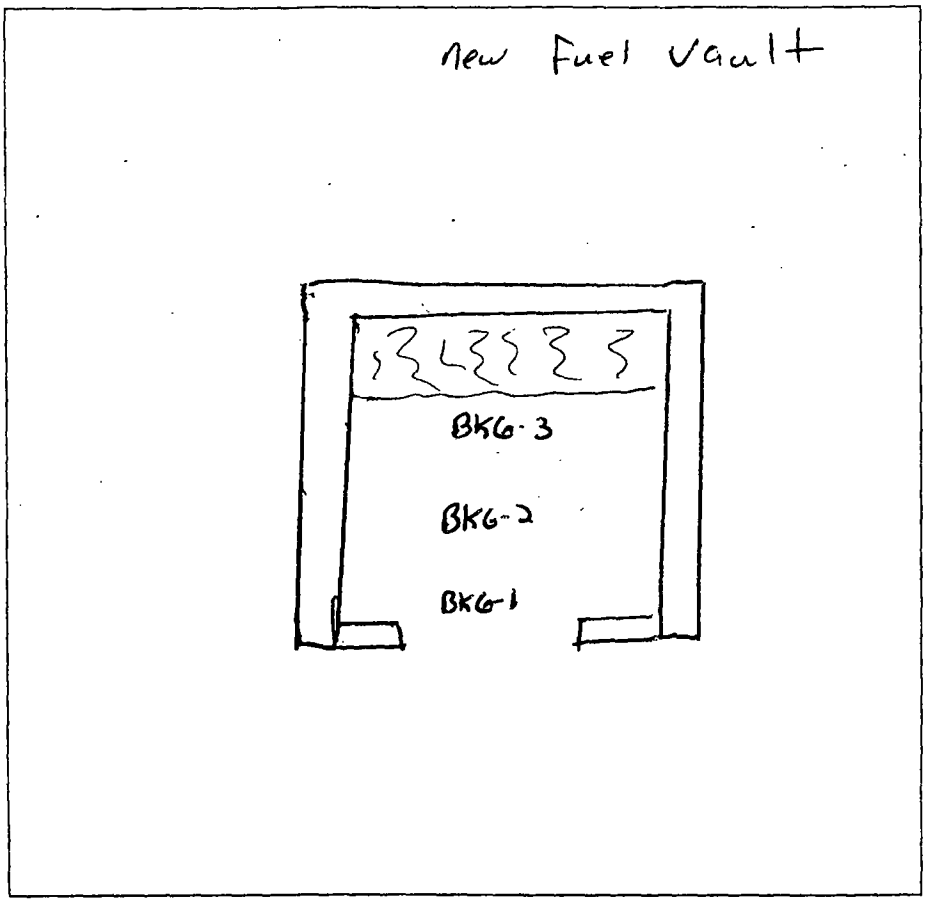
Radiological Survey Report

DATE: 10.29.07 LOCATION: Fuel Vault (3rd floor) SURVEY NO.: 2007-2188 TIME: 1700

Smear Information N/A

No.	Beta/ Gamma	Alpha (20%)
1		
2		
3		
4		
5		
6		
7		
8		
9	N	A
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		

Survey Map



Legend: * = Contact; # / # = Contact Reading / General Area; # = General Area. ① = Smear location; Δ = Air Sample.
Note: Readings in mrem/hr unless noted otherwise.

Instrument	Serial Number	Cal. Due Date	Efficiency	Background (CPM)	MDA (DPM)
N	A	N	A	N	A
Frisker Detector HV = Vdc		Threshold Voltage = mVdc		Detector cable length = ft.	

Print/Signature of Surveyor: Paul R Ernst / Paul R Ernst Date: 10-30-07

Comments: N/A

Review By: JR Smith Date: 11/2/07

Radiological Survey Report

DATE: 12-12-07 LOCATION: 3rd floor Bridge Crane SURVEY NO.: 2007-2478 TIME: 1715

Smear Information DRM/100 cm²

No.	Beta/ Gamma	Alpha (20%)
1	78	<MDA
2	~~46~~ <MDA	
3	<MDA	
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		

Survey Map

This is the Rx building bridge crane radiological survey results. The crane was wiped down with bathroom cleaner ("Scrubbing Bubbles"), "Scotch-Brite" pads and towels. The wipe down was performed from the decking along the west trolley rail and from a man-lift moved along the east side of the east trolley rail. All surfaces that could be reached from those two access path were wipe down. The areas not cleaned are obvious. The surfaces cleaned are free of all loose contamination. However, a uniform level of approximately 125 NCPM is trapped everywhere dried grease is located. (The grease will not come off with scrubbing bubbles.) All measurements are less than 25% DCGL of 574 GCPM except for the main cable. It reads 580 GCPM.
Areas not wiped or surveyed:
1.) Bridge rail beds and trails.
2.) Windlass motor & cable drum.
3.) Under sides & between sides of trolley rail support beams.

Legend: * = Contact; # / # = Contact Reading / General Area; # = General Area. ① = Smear location; Δ = Air Sample.
Note: Readings in mrem/hr unless noted otherwise.

Instrument	Serial Number	Cal. Due Date	Efficiency	Background (CPM)	MDA (DPM)
L-2221-	234988	4/12/08	N/A		
44-142	246233	6/08	.41 (2π @ 1¼")	~~24~~ 254	N/A
L-2929	216263	8/23/08	$\beta\bar{\gamma}$=.27, α=.4	$\beta\bar{\gamma}$=33, α=0	$\beta\bar{\gamma}$=34, α=3
N/A					
Frisker Detector HV = 1050 Vdc		Threshold Voltage = 10 mVdc		Detector cable length = 6 ft.	

Print/Signature of Surveyor: Ned Campbell

Date: 12-12-07

Comments: _____

Review By: J R Smith

Date: 12/14/07