FORT McCLELLAN

APPENDIX N

FINAL RELEASE SURVEYS
HOT CELL

DECEMBER 1996

ALLIED TECHNOLOGY GROUP

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HOT CELL

TRENCH, LEDGE, WALLS, TUBE SHEET

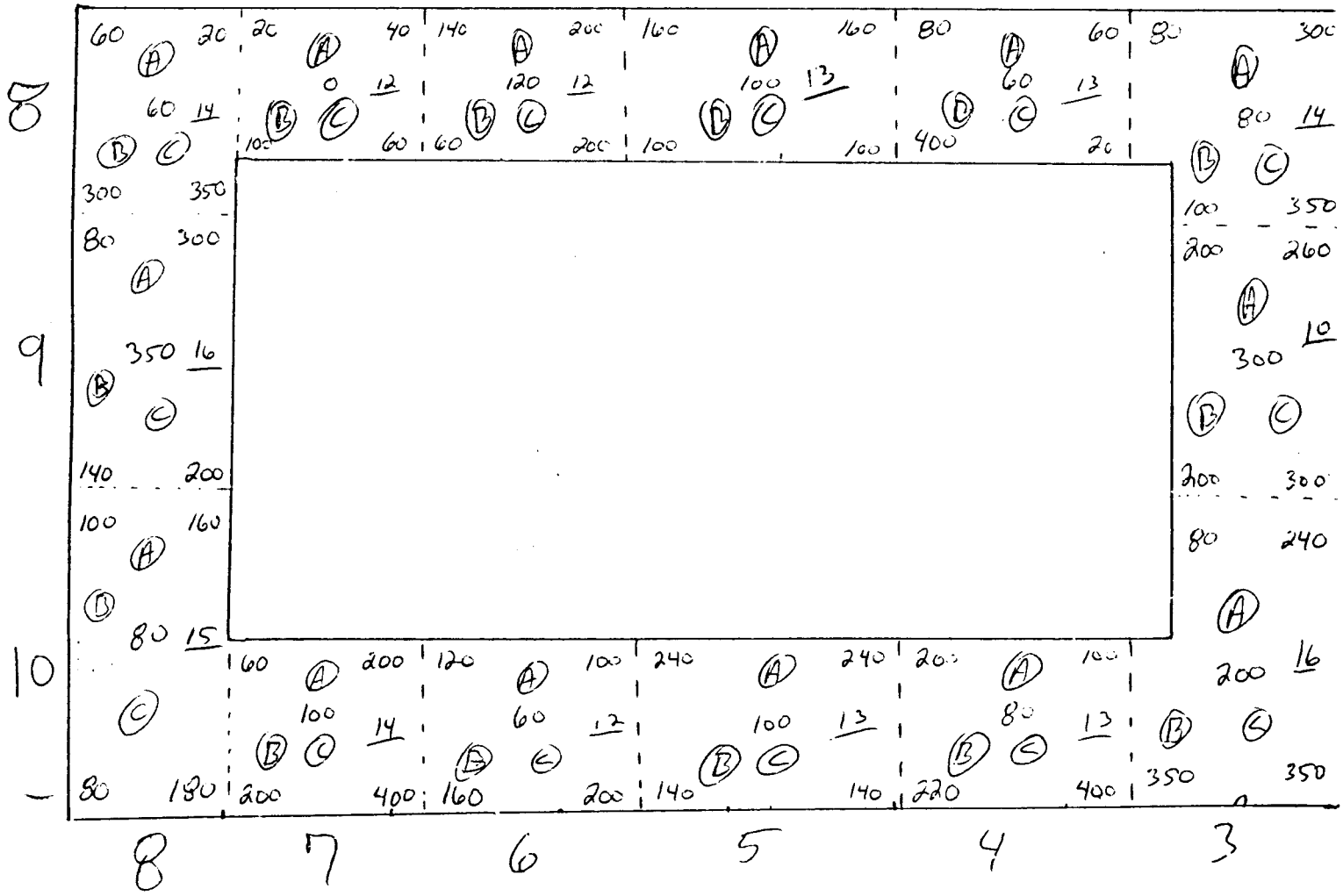
RADIOLOGICAL SURVEY REPORT

ATGS #: FMR-062

DATE: 7-30-96	INSTRUMENTATION USED				
TIME: 0600 TO 1500	MODEL	SERIAL #	EFF.%	BKGRD	CAL. DUE DATE
SURVEYOR: O. CORBETT	19	98102	—	12 UR/HR	9-25-96
LOCATION: BLDG 3192 FOYER HOT CELL D/S LEDGE	18	118295 / 127609	20	260-300 CPM	11-8-96
REVIEWED BY: NHW	19	98112	—	8 UR/HR	12-7-96
Smear Locations Circled. Dose Rates = microR/hr (μR/hr)					

PURPOSE OF SURVEY: SURVEY FOR UNCONDITIONAL RELEASE AS PER CRITERIA ESTABLISHED IN NRC REGULATORY GUIDE 1.86, SMEAR RESULTS ATTACHED, DOSE RATES ARE UNDERLINED NUMBERS, NUMBERS ARE COUNTS PER MINUTE ABOVE BACKGROUND

D/S HOT CELL UPPER LEDGE



SMEAR COUNTING ANALYSIS REPORT

DATE:	ATGS#:	ANALYSIS PERFORMED BY:
7-29-96	FMR062	K Corbett

COUNTING SYSTEM DATA

INSTRUMENT I.D. 126128	DETECTOR I.D. 133007
EFFICIENCIES: α .278 $\beta\gamma$ .244	MDA: α 5 $\beta\gamma$ 142
PERFORMED BY: D CORBETT	
SAMPLE COUNT TIME: 1 min	ACTIVITY REPORT IN: ☒ dpm ☐ µCi
α BACKGROUND: 0.1 cpm	$\beta\gamma$ BACKGROUND: 55 cpm

SAMPLE I.D. OR DESCRIPTION	GROSS COUNTS α	GROSS COUNTS $\beta\gamma$	NET COUNTS α	NET COUNTS $\beta\gamma$	ACTIVITY α	ACTIVITY $\beta\gamma$
BLDG3192 7-10-A	0	64	-.1	9	<MDA	<MDA
I/S Hot 7-10-B	0	55	↓	0		
CELL LEDGE 7-10-C	2	64	1.9	9		
6-10-A	0	54	-.1	-1		
6-10-B	0	60		5		
6-10 C	0	53		-2		
~~6~~ 5-10-A	0	42		-13		
5-10-B	0	52		-3		
5-10-C	0	47		-8		
BLANK	0	49		-6		
4-10-A	0	56		1		
4-10-B	0	58		3		
4-10-C	0	47		-8		
7-8-A	0	41		-14		
7-8-B	0	54		-1		
7-8-C	0	59		4		
68-A	0	46		-9		
68-B	0	40		-15		
68C	0	45		-10		
BLANK	0	42	↓	-13	↓	↓

Remarks:

Reviewed By: KW

Date: 7-29-96

SMEAR COUNTING ANALYSIS REPORT

DATE:	ATGS#:	ANALYSIS PERFORMED BY:
7-29-96	FMR062	K Corbett

COUNTING SYSTEM DATA

INSTRUMENT I.D. 126128	DETECTOR I.D. 133007
EFFICIENCIES: α .278 βγ .244	MDA: α 5 βγ 142
PERFORMED BY: D Corbett	
SAMPLE COUNT TIME: 1 min	ACTIVITY REPORT IN: ☒ dpm ☐ μCi
α BACKGROUND: 0.1 cpm	βγ BACKGROUND: 55 cpm

SAMPLE I.D. OR DESCRIPTION	GROSS COUNTS α	GROSS COUNTS βγ	NET COUNTS α	NET COUNTS βγ	ACTIVITY α	ACTIVITY βγ
I/S Hot 58 A	0	51	-.1	-4	≥MDA	< MDA
Cell ledge 58 B	0	50		-5		
58 C	0	45		-10		
48 A	0	53		-2		
48 B	0	70		15		
48C	0	62		7		
8 10 A	0	41		-14		
8 10 B	0	45		-10		
8·10·C	0	42		-13		
8-9-A	0	56		1		
8-9-B	0	61		5		
8 9 C	0	43		-12		
8-8-A	0	67		12		
8·8 B	0	56		1		
8·8·C	0	54				
BLANK	0	43				
3-10-A	0	47				
3·10·B	0	57				
3·10·C	0	51				
3-9-A	0	57				

Remarks:

Reviewed By: NSW

Date: 7-30-96

SMEAR COUNTING ANALYSIS REPORT

DATE:	ATGS#:	ANALYSIS PERFORMED BY:
7-29-96	FMR062	K Corbett

COUNTING SYSTEM DATA

INSTRUMENT I.D. 126128	DETECTOR I.D. 133007
EFFICIENCIES: α .278 βγ .244	MDA: α 5 βγ 142
PERFORMED BY: D. CORBETT	
SAMPLE COUNT TIME: 1 min	ACTIVITY REPORT IN: ☒ dpm ☐ μCi
α BACKGROUND: 0.1 cpm	βγ BACKGROUND: 55 cpm

SAMPLE I.D. OR DESCRIPTION	GROSS COUNTS α	GROSS COUNTS βγ	NET COUNTS α	NET COUNTS βγ	ACTIVITY α	ACTIVITY βγ
I/S 3-9-B	1	40	.9	-15	<MDA	<MDA
Hot Cell 3-9-C	0	52	-.1	-3	↓	↓
Ledge 3-8-A	0	48	-.1	-7		
3-8-B	0	52	-.1	-3		
3-8-C	0	53	-.1	-2		
BLANK	0	41	-.	-11		
		N A				

Remarks:

Reviewed By: NSW

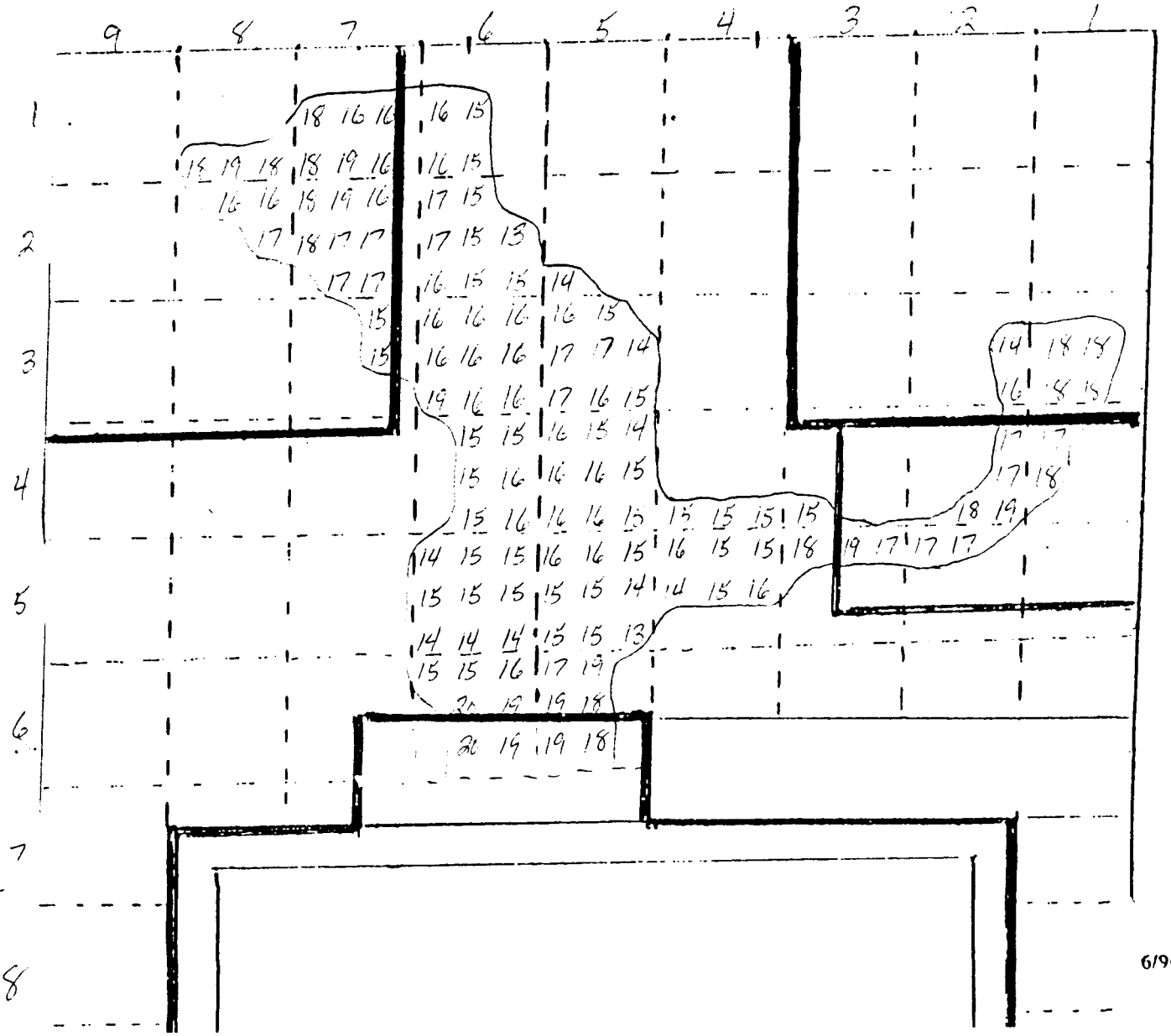
Date: 7-30-96

RADIOLOGICAL SURVEY REPORT

ATGS #: FARC065

DATE: 7/29/96	INSTRUMENTATION USED				
TIME: 0800	MODEL	SERIAL #	EFF.%	BKGRD	CAL. DUE DATE
SURVEYOR: A. JACKSON	19	131251		18 µR	12/27/96
LOCATION: Building 3192	19	131291	N/A	18 µR	12/19/96
REVIEWED BY: Neal Wentz	19	131294		18 µR	12/27/96
Smear Locations Circled. Dose Rates = microR/hr (µR/hr)					

PURPOSE OF SURVEY: Contact µR readings to dirt in trench area.



6/96

RADIOLOGICAL SURVEY REPORT

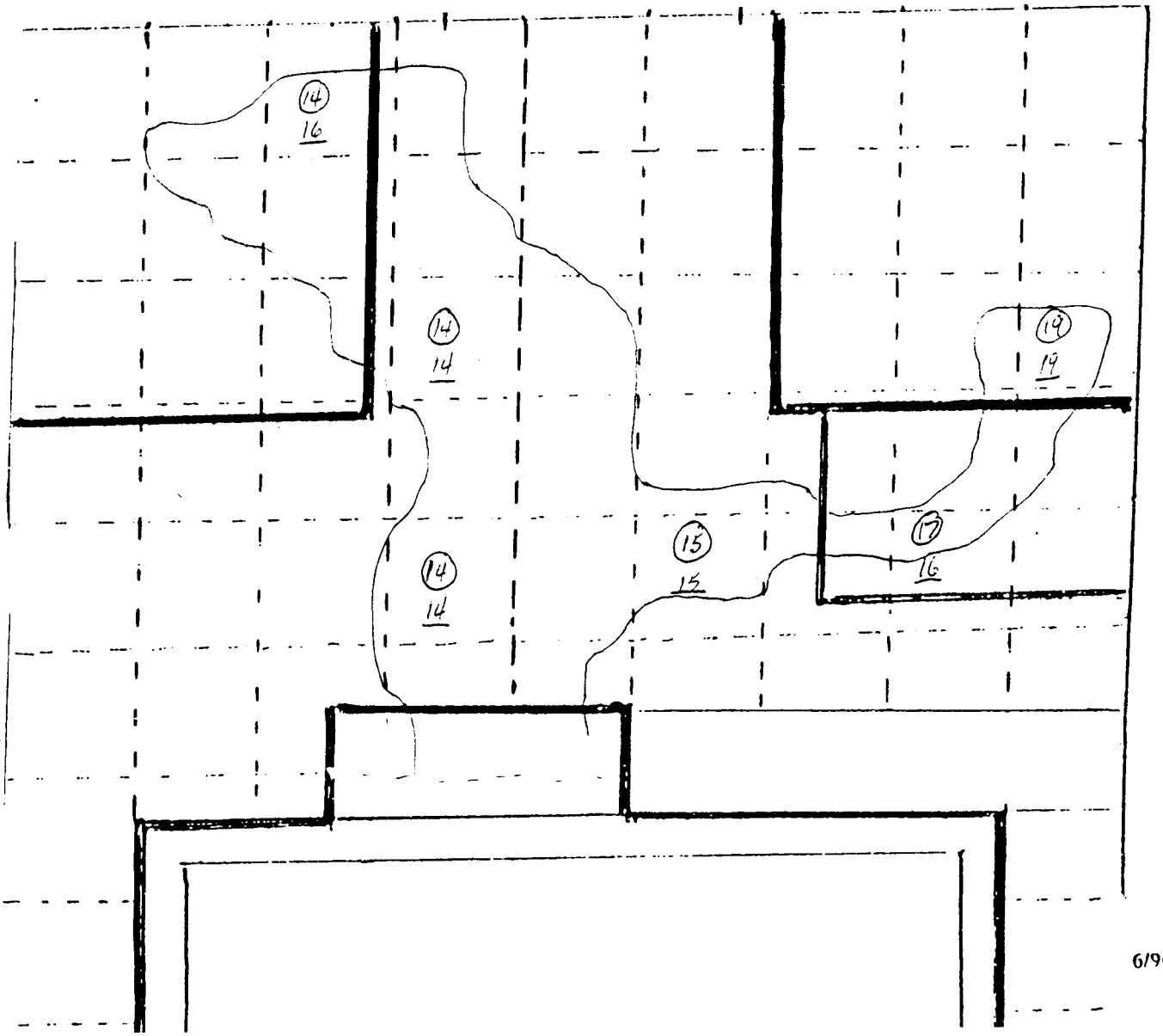
ATGS #: FMR066

DATE: 7/29/96	INSTRUMENTATION USED				
TIME: 0800	MODEL	SERIAL #	EFF.%	BKGRD	CAL. DUE DATE
SURVEYOR: A. JACKSON	19	131251	NA	18uR	12/27/96
LOCATION: Building 3192	19	131291		18uR	12/19/96
REVIEWED BY: Neil Wheatley	19	131294		18uR	12/27/96
Smear Locations Circled. Dose Rates = microR/hr (μR/hr)	—	—	—	—	—

PURPOSE OF SURVEY: QA readings for dirt in trench area.

Note: Contact readings are circled.

One meter readings are underlined.



RADIOLOGICAL SURVEY REPORT

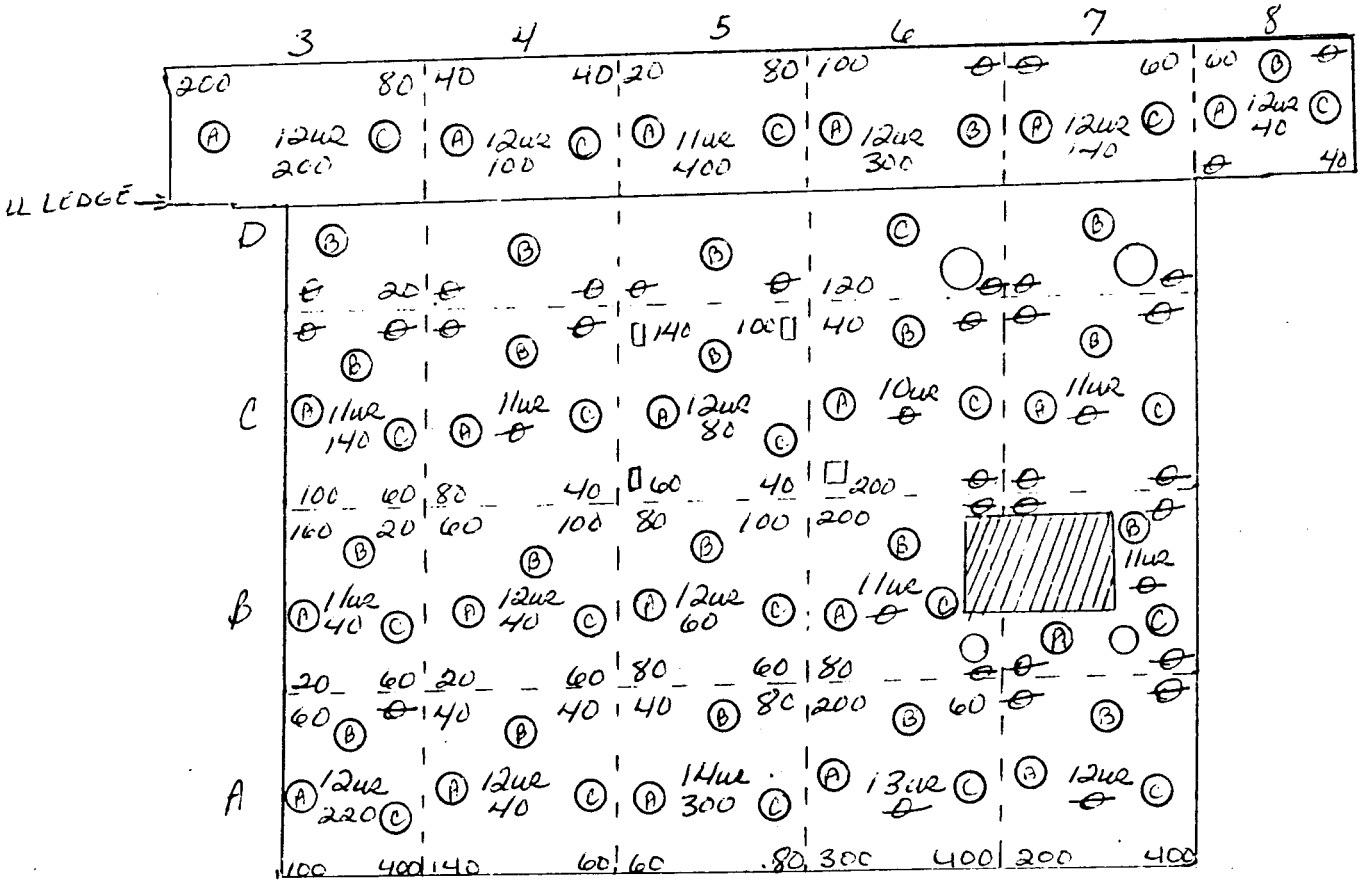
ATGS #: FMR 069

DATE: 7-31-96	INSTRUMENTATION USED				
TIME: 0715	MODEL	SERIAL #	EFF.%	BKGRD	CAL. DUE DATE
SURVEYOR: E.HUMPHRES, D. CORBED C. Humphres/B. Goldston	18	118294	20	180 240	11-8-96
LOCATION: BLDG 3192 I/S HOTCELL SOUTH WALL	19	131291	N/A	10-14	12-19-96
REVIEWED BY: NSW	19	98102	N/A	10-14	9-5-96
Smear Locations Circled Dose Rates = microR/hr (μR/hr)					

PURPOSE OF SURVEY: Unconditional Release of Inside Hotcell for the Release Criteria of NRC Regulatory Guide 1.86

NOTE: ALL SMEARS TAKEN = 100cm². ALL DIRECT READINGS = 100cm²/Probe Area

HOT CELL SOUTH WALL



SMEAR COUNTING ANALYSIS REPORT

DATE:	ATGS#:	ANALYSIS PERFORMED BY:
7-30-96	FMR 069	Randy West

COUNTING SYSTEM DATA

INSTRUMENT I.D. 99045	DETECTOR I.D. 098325
EFFICIENCIES: α .261% βγ .149%	MDA: α 8 dpm βγ 227 dpm
PERFORMED BY: E Humphries	
SAMPLE COUNT TIME: 1 min	ACTIVITY REPORT IN: ☒ dpm ☐ μCi
α BACKGROUND: 0.2 cpm	βγ BACKGROUND: 53 cpm

SAMPLE I.D. OR DESCRIPTION	GROSS COUNTS α	GROSS COUNTS βγ	NET COUNTS α	NET COUNTS βγ	ACTIVITY α	ACTIVITY βγ
A-3-A BIDG 3192	0	57	-.2	4	<MDA	<MDA
A-3-B I/S Hot Cell	0	62	-.2	9		
A-3-C South Wall	0	51	-.2	-2		
A-4-A	1	70	.8	17		
A-4-B	0	42	-.2	-11		
A-4-C	0	66	-.2	13		
A-5-A	0	49	-.2	-4		
A-5-B	1	52	.8	-1		
A-5-C	0	62	-.2	9		
A-6-A	0	52	-.2	-1		
A-6-B	1	59	.8	6		
A-6-C	1	51	.8	-2		
A-7-A	0	62	-.2	9		
A-7-B	0	66	-.2	13		
A-7-C	0	56	-.2	3		
B-3-A	0	59	-.2	6		
B-3-B	1	52	.8	-1		
B-3-C	0	51	-.2	-2		
B-4-A	0	53	-.2	0		
B-4-B	0	57	-.2	4	<MDA	<MDA

Remarks:

Reviewed By: ASW

Date: 7-30-96

SMEAR COUNTING ANALYSIS REPORT

DATE:	ATGS#:	ANALYSIS PERFORMED BY:
7-30-96	FMR 069	Randy West

COUNTING SYSTEM DATA

INSTRUMENT I.D. 99045	DETECTOR I.D. 098325
EFFICIENCIES: α .261% βγ .149%	MDA: α 8 dpm βγ 227 dpm
PERFORMED BY: E. Humphries	
SAMPLE COUNT TIME: 1 min	ACTIVITY REPORT IN: ☒ dpm ☐ μCi
α BACKGROUND: 0.2 cpm	βγ BACKGROUND: 53 cpm

SAMPLE I.D. OR DESCRIPTION	GROSS COUNTS α	GROSS COUNTS βγ	NET COUNTS α	NET COUNTS βγ	ACTIVITY α	ACTIVITY βγ
B-4-C BLDG 3192	0	57	-.2	4	<MDA	<MDA
B-5-A I/S Hot Cell	0	41	-.2	-12		
B-5-B South Wall	0	45	-.2	-8		
B-5-C	0	45	-.2	-8		
B-6-A	0	43	-.2	-10		
B-6-B	1	55	.8	2		
B-6-C	0	62	-.2	9		
B-7-A	0	61	-.2	8		
B-7-B	0	57	-.2	RW 54		
B-7-C	0	57	-.2	4		
C-3-A	0	48	-.2	-5		
C-3-B	1	57	.8	4		
C-3-C	1	62	.8	9		
C-4-A	0	57	-.2	4		
C-4-B	0	56	-.2	3		
C-4-C	0	52	-.2	-1		
C-5-A	0	39	-.2	-14		
C-5-B	0	53	-.2	0		
C-5-C	0	50	-.2	-3		
C-6-A	0	51	-.2	-2	<MDA	<MDA

Remarks:

Reviewed By: NSN

Date: 7-30-96

SMEAR COUNTING ANALYSIS REPORT

DATE:	ATGS#:	ANALYSIS PERFORMED BY:
7-30-96	FMR 069	Randy West

COUNTING SYSTEM DATA

INSTRUMENT I.D. 99045	DETECTOR I.D. 098325
EFFICIENCIES: α .261% βγ .149%	MDA: α 8 DPM βγ 227 DPM
PERFORMED BY: E. Humphries	
SAMPLE COUNT TIME: 1 min	ACTIVITY REPORT IN: ☒ dpm ☐ μCi
α BACKGROUND: 0.2 cpm	βγ BACKGROUND: 53 cpm

SAMPLE I.D. OR DESCRIPTION	GROSS COUNTS α	GROSS COUNTS βγ	NET COUNTS α	NET COUNTS βγ	ACTIVITY α	ACTIVITY βγ
C-6-B BLDG 3192	0	56	-.2	3	<MDA	<MDA
C-6-C I/S Hot Cell	0	50	-.2	-3		
C-7-A South wall	0	47	-.2	-6		
C-7-B	0	41	-.2	-12		
C-7-C	0	44	-.2	-9		
D-3-A	0	50	-.2	-3		
D-3-B	0	51	-.2	-2		
D-3-C	0	59	-.2	6		
D-4-A	0	50	-.2	-3		
D-4-B	0	56	-.2	3		
D-4-C	0	59	-.2	6		
D-5-A	0	47	-.2	-6		
D-5-B	0	54	-.2	1		
D-5-C	0	69	-.2	16		
D-6-A	0	52	-.2	-1		
D-6-B	2	66	1.8	13		
D-6-C	0	47	-.2	-6		
D-7-A	0	55	-.2	2		
D-7-B	1	55	.8	2		
D-7-C	0	64	-.2	11	<MDA	<MDA

Remarks:

Reviewed By: NSW

Date: NSW 7-30-96

SMEAR COUNTING ANALYSIS REPORT

DATE:	ATGS#:	ANALYSIS PERFORMED BY:
7-30-96	FMR 069	Randy West

COUNTING SYSTEM DATA

INSTRUMENT I.D. 99045	DETECTOR I.D. 098325
EFFICIENCIES: α .261% βγ .149%	MDA: α 8 dpm βγ 227 dpm
PERFORMED BY: E Humphries	
SAMPLE COUNT TIME: 1 min	ACTIVITY REPORT IN: ☒ dpm ☐ μCi
α BACKGROUND: 0.2 cpm	βγ BACKGROUND: 53 cpm

SAMPLE I.D. OR DESCRIPTION	GROSS COUNTS α	GROSS COUNTS βγ	NET COUNTS α	NET COUNTS βγ	ACTIVITY α	ACTIVITY βγ
D-8-A BLDG 3192	0	59	-.2	6	<MDA	<MDA
D-8-B I/S Hot Cell	0	59	-.2	6		
D-8-C South Wall	0	69	-.2	16		
BLANK	0	53	-.2	0		

Remarks:

Reviewed By: NSW

Date: 7-30-96

RADIOLOGICAL SURVEY REPORT

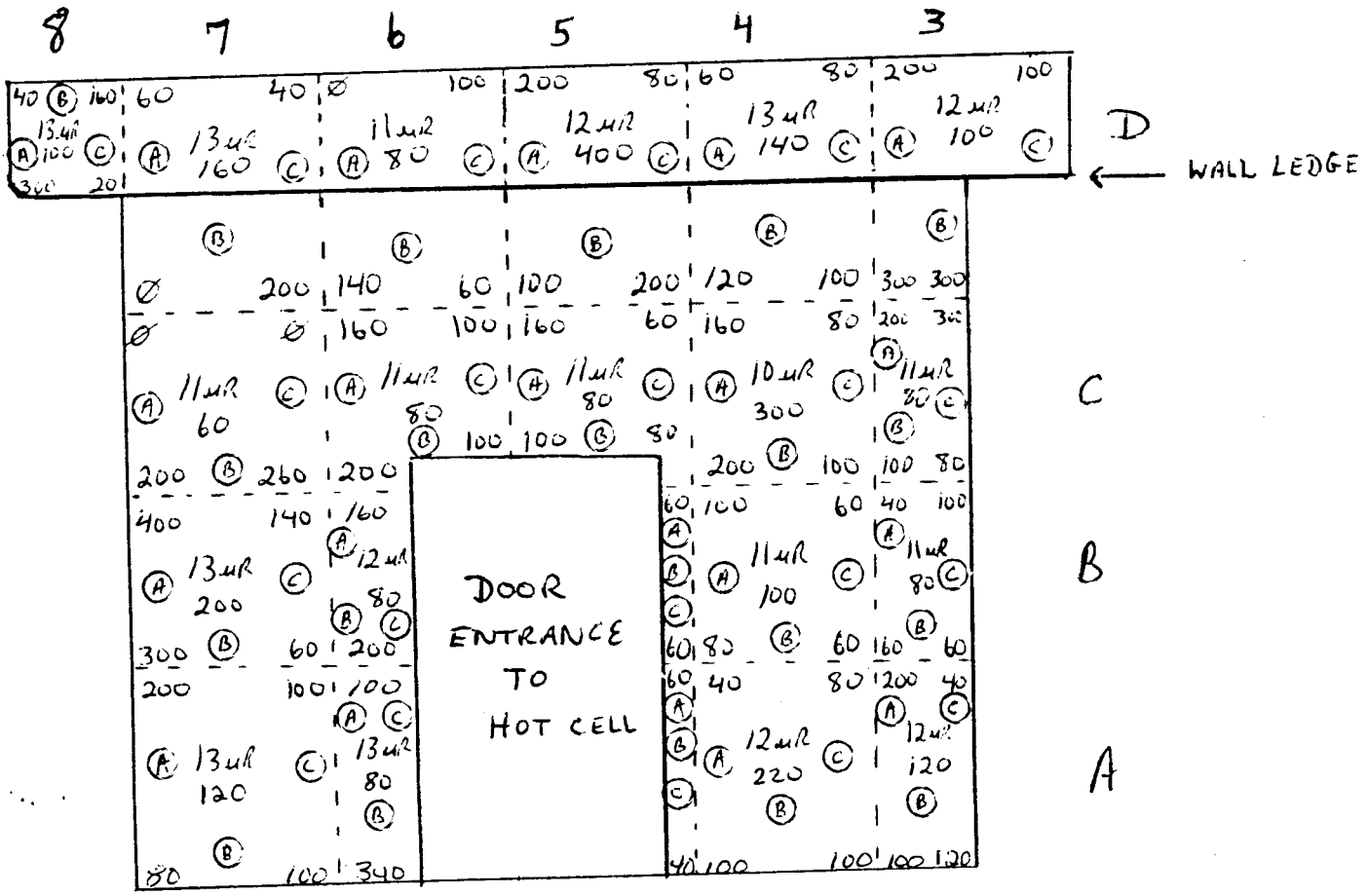
ATGS #: FMR- 070

	INSTRUMENTATION USED				
DATE: 7-31-96	MODEL	SERIAL #	EFF.%	BKGRD	CAL. DUE DATE
TIME: 0745					
SURVEYOR: D. Goldston, C. Humphres, D. Carpet (E Humphres)	18	118295	20	180-260	11-8-96
LOCATION: BLDG 3192 - Hot Cell North WALL (Interior)	18	118294	20	180-240	11-8-96
REVIEWED BY: NSW	19	98102	NA	10-14	9-5-96
Smear Locations Circled. Dose Rates = microR/hr (μR/hr)	19	131291	NA	10-14	12-19-96

PURPOSE OF SURVEY: Unconditional Release of BLDG 3192 in accordance with the Standards of NRC Regulatory Guide 1.86

ALL SMEARS TAKEN ≈ 100 cm²

Hot Cell North Wall



SMEAR COUNTING ANALYSIS REPORT

DATE:	ATGS#:	ANALYSIS PERFORMED BY:
7-30-96	FMR 070	Randy West

COUNTING SYSTEM DATA

INSTRUMENT I.D. 99045	DETECTOR I.D. 098325
EFFICIENCIES: α .261% βγ .149%	MDA: α 8 DPM βγ 227 DPM
PERFORMED BY: E. Humphres	
SAMPLE COUNT TIME: 1 min	ACTIVITY REPORT IN: ☒ dpm ☐ μCi
α BACKGROUND: 0.2 cpm	βγ BACKGROUND: 53 cpm

SAMPLE I.D. OR DESCRIPTION	GROSS COUNTS α	GROSS COUNTS βγ	NET COUNTS α	NET COUNTS βγ	ACTIVITY α	ACTIVITY βγ
3-A-A BLDG 3192	0	67	-.2	14	<MDA	<MDA
3-A-B I/S HOT Cell	0	56	-.2	3		
3-A-C north wall	0	59	-.2	6		
3-B-A	0	48	-.2	-5		
3-B-B	2	35	1.8	-18		
3-B-C	2	54	1.8	1		
3-C-A	1	60	.8	7		
3-C-B	0	46	-.2	-7		
3-C-C	0	51	-.2	-2		
3-D-A	0	61	-.2	8		
3-D-B	1	46	.8	-7		
3-D-C	0	57	-.2	4		
4-A-A	0	47	-.2	-6		
4-A-B	1	65	.8	12		
4-A-C	0	55	-.2	2		
4-B-A	0	52	-.2	-1		
4-B-B	1	47	.8	-6		
4-B-C	0	53	-.2	0		
4-C-A	1	57	.8	4		
4-C-B	0	61	-.2	8	<MDA	<MDA

Remarks:

Reviewed By: NSW

Date: 7-30-96

SMEAR COUNTING ANALYSIS REPORT

DATE:	ATGS#:	ANALYSIS PERFORMED BY:
7-30-96	FMR 070	Randy West

COUNTING SYSTEM DATA

INSTRUMENT I.D. 99045	DETECTOR I.D. 098325
EFFICIENCIES: α .261% βγ .149%	MDA: α 8 DPM βγ 2270PM
PERFORMED BY: E Humphres	
SAMPLE COUNT TIME: 1 min	ACTIVITY REPORT IN: ☒ dpm ☐ μCi
α BACKGROUND: 0.2 cpm	βγ BACKGROUND: 53 cpm

SAMPLE I.D. OR DESCRIPTION	GROSS COUNTS α	GROSS COUNTS βγ	NET COUNTS α	NET COUNTS βγ	ACTIVITY α	ACTIVITY βγ
4-C-C BLDG 3192	1	51	.8	-2	<MDA	<MDA
4-D-A I/S Hot Cell	0	51	-.2	-2		
4-D-B North Wall	0	65	-.2	12		
4-D-C	0	51	-.2	-2		
5-A-A	0	52	-.2	-1		
5-A-B	0	48	-.2	-5		
5-A-C	1	53	.8	0		
5-B-A	0	47	-.2	-6		
5-B-B	0	51	-.2	-2		
5-B-C	0	45	-.2	-5		
5-C-A	0	57	-.2	4		
5-C-B	0	50	-.2	-3		
5-C-C	0	63	-.2	10		
5-D-A	0	56	-.2	3		
5-D-B	0	49	-.2	-4		
5-D-C	0	62	-.2	9		
6-A-A	0	57	-.2	4		
6-A-B	0	64	-.2	11		
6-A-C	0	51	-.2	-2		
6-B-A	0	55	-.2	2	<MDA	<MDA

Remarks:

Reviewed By: NSW

Date: 7-30-96

SMEAR COUNTING ANALYSIS REPORT

DATE:	ATGS#:	ANALYSIS PERFORMED BY:
7-30-96	FME 070	Randy West

COUNTING SYSTEM DATA

INSTRUMENT I.D. 99045	DETECTOR I.D. 098325
EFFICIENCIES: α .261% βγ .149%	MDA: α 8 DPM βγ 227 DPM
PERFORMED BY: E. Humphres	
SAMPLE COUNT TIME: 1 min	ACTIVITY REPORT IN: ☒ dpm ☐ μCi
α BACKGROUND: 0.2 cpm	βγ BACKGROUND: 53 cpm

SAMPLE I.D. OR DESCRIPTION	GROSS COUNTS α	GROSS COUNTS βγ	NET COUNTS α	NET COUNTS βγ	ACTIVITY α	ACTIVITY βγ
6-B-B BLDG 3192	0	70	-.2	17	<MDA	<MDA
6-B-C I/S Hot Cell	0	62	-.2	9		
6-C-A North Wall	0	67	-.2	14		
6-C-B	0	56	-.2	3		
6-C-C	0	44	-.2	-9		
6-D-A	1	57	.8	4		
6-D-B	1	56	.8	3		
6-D-C	RW 0	52	-.2	-1		
7-A-A	0	40	-.2	-13		
7-A-B	0	57	-.2	4		
7-A-C	0	53	-.2	0		
7-B-A	0	53	-.2	0		
7-B-B	1	55	.8	2		
7-B-C	0	48	-.2	-5		
7-C-A	0	57	-.2	4		
7-C-B	0	60	-.2	7		
7-C-C	0	48	-.2	-5		
7-D-A	0	65	-.2	12		
7-D-B	1	61	.8	8		
7-D-C	0	56	-.2	3	<MDA	<MDA

Remarks:

Reviewed By: NSW

Date: 7-30-96

SMEAR COUNTING ANALYSIS REPORT

DATE:	ATGS#:	ANALYSIS PERFORMED BY:
7-31-96	FMR-070	K Corbett

COUNTING SYSTEM DATA

INSTRUMENT I.D. 126128	DETECTOR I.D. 133007
EFFICIENCIES: α .266 βγ .243	MDA: α 6 DPM βγ 140 DPM
PERFORMED BY: E. Humphries	
SAMPLE COUNT TIME: 1 min	ACTIVITY REPORT IN: ☒ dpm ☐ μCi
α BACKGROUND: 0.1 cpm	βγ BACKGROUND: 54 cpm

SAMPLE I.D. OR DESCRIPTION	GROSS COUNTS α	GROSS COUNTS βγ	NET COUNTS α	NET COUNTS βγ	ACTIVITY α	ACTIVITY βγ
NORTH 8DA	0	57	-.1	3	<MDA	<MDA
WALL 8DB	0	45	-.1	-9		
HOT CELL 8DC	0	60	-.1	6		
BLANK	0	51	~~-.3~~ -.1	-3		
			A			
		N				

Remarks: HOTCELL - NORTH WALL

Reviewed By:	Date:
NSW	7-30-96

RADIOLOGICAL SURVEY REPORT

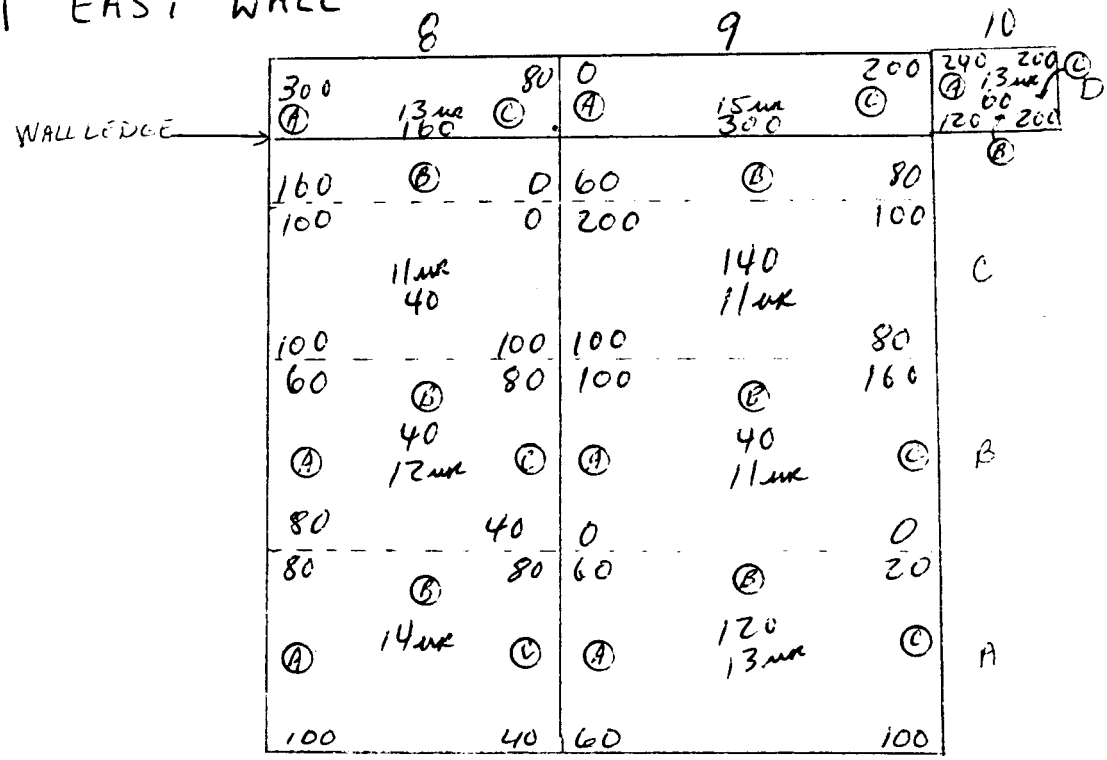
ATGS #: FMR-071

	INSTRUMENTATION USED				
DATE: 7-31-96	MODEL	SERIAL #	EFF.%	BKGRD	CAL. DUE DATE
TIME: 0705					
SURVEYOR: E HUMPHRES, C. Humphres, D. Goldston	18	118294	.20	200-400	11-8-96
LOCATION: BLDG # 3192 EAST HOTCELL WALL	18	118295	.20	200-400	11-8-96
REVIEWED BY: NSW	19	131291	N/A	10-14	12-19-96
Smear Locations Circled - Dose Rates = microR/hr (μR/hr)					

PURPOSE OF SURVEY: UNCONDITIONAL RELEASE OF INSIDE HOTCELL PER THE RELEASE CRITERIA OF NRC REGULATORY GUIDE 1.86

NOTE: ALL SMEARS TAKEN = 100cm², ALL DIRECT READINGS = 100cm²/PROBE ARE

Hot Cell EAST WALL



SMEAR COUNTING ANALYSIS REPORT

DATE:	ATGS#:	ANALYSIS PERFORMED BY:
7-30-96	FMR-071	R. TRANCAS

COUNTING SYSTEM DATA

INSTRUMENT I.D. 126128	DETECTOR I.D. 133007
EFFICIENCIES: α .263 % βγ .241 %	MDA: α 8 Dpm βγ 139 Dpm
PERFORMED BY: F Humphries	
SAMPLE COUNT TIME: 1 MIN	ACTIVITY REPORT IN: ☒ dpm ☐ μCi
α BACKGROUND: 0.2 cpm	βγ BACKGROUND: 52 cpm

SAMPLE I.D. OR DESCRIPTION	GROSS COUNTS α	GROSS COUNTS βγ	NET COUNTS α	NET COUNTS βγ	ACTIVITY α	ACTIVITY βγ
A-8-A Bldg 3192	~~0~~	51	-.2	-1	<MDA	<MDA
A-8-B I/S Hot	~~0~~	55	-.2	3		
A-8-C Cell	~~0~~	61	-.2	9		
B-8-A East Wall	~~0~~	53	-.2	1		
B-8-B	~~0~~	47	-.2	-5		
B-8-C	~~0~~	44	-.2	-8		
C-8-A	~~0~~	53	-.2	1		
C-8-B	~~0~~	51	-.2	-1		
C-8-C	~~0~~	42	-.2	-10		
D-8-A	~~0~~	46	-.2	-4		
D-8-B	~~0~~	50	-.2	-2		
D-8-C	~~0~~	43	-.2	-9		
A-9-A	1	47	.8	-5		
A-9-B	~~0~~	52	-.2	~~0~~		
A-9-C	~~0~~	53	-.2	1		
B-9-A	1	45	.8	-7		
B-9-B	~~0~~	61	-.2	9		
B-9-C	~~0~~	42	-.2	-10		
C-9-A	~~0~~	44	-.2	-8	↓	↓
C-9-B	~~0~~	50	-.2	-2	<MDA	<MDA

Remarks:

Reviewed By: MSW

Date: 7-30-96

SMEAR COUNTING ANALYSIS REPORT

DATE:	ATGS#:	ANALYSIS PERFORMED BY:
7-30-96	FMR-071	R. TRAVERAS

COUNTING SYSTEM DATA

INSTRUMENT I.D. 126128	DETECTOR I.D. 133007
EFFICIENCIES: α .263 % βγ .241 %	MDA: α 8 Dpm βγ 139 Dpm
PERFORMED BY: E Humphries	
SAMPLE COUNT TIME: 1 MIN	ACTIVITY REPORT IN: ☒ dpm ☐ μCi
α BACKGROUND: 0.2 cpm	βγ BACKGROUND: 52 cpm

SAMPLE I.D. OR DESCRIPTION	GROSS COUNTS α	GROSS COUNTS βγ	NET COUNTS α	NET COUNTS βγ	ACTIVITY α	ACTIVITY βγ
C-9-C BLDG 3192	~~0~~	46	-.2	-6	<MDA	<MDA
D-9-A I/S HOT	1	49	.8	-3		
D-9-B CELL	~~0~~	54	-.2	2		
D-9-C EAST	~~0~~	63	-.2	11	↓	↓
BLANK WALL	~~0~~	59	-.2	7	<MDA	<MDA

Remarks:

Reviewed By: MSW

Date: 7-30-96

SMEAR COUNTING ANALYSIS REPORT

DATE:	ATGS#:	ANALYSIS PERFORMED BY:
7-31-96	FMR 071	K Corbin

COUNTING SYSTEM DATA

INSTRUMENT I.D. 126128	DETECTOR I.D. 133007
EFFICIENCIES: α .266 βγ .243	MDA: α 6 DPM βγ 140 DPM
PERFORMED BY: E. Humphries	CAL DUE DATE: 12-14-96
SAMPLE COUNT TIME: 1 MIN	ACTIVITY REPORT IN: ☒ dpm ☐ μCi
α BACKGROUND: 0.1 cpm	βγ BACKGROUND: 54 cpm

SAMPLE I.D. OR DESCRIPTION	GROSS COUNTS α	GROSS COUNTS βγ	NET COUNTS α	NET COUNTS βγ	ACTIVITY α	ACTIVITY βγ
WEST 10-D-A	1	61	0.9	7	<MDA	<MDA
Hot CELL 10-D-B	0	62	-.1	8	↓	↓
WALL 10-D-C	1	40	0.9	-14		
I/S BLANK	0	58	-.1	4		
		N A				

Remarks: FM 107

Reviewed By: NSW

Date: 7-31-96

RADIOLOGICAL SURVEY REPORT

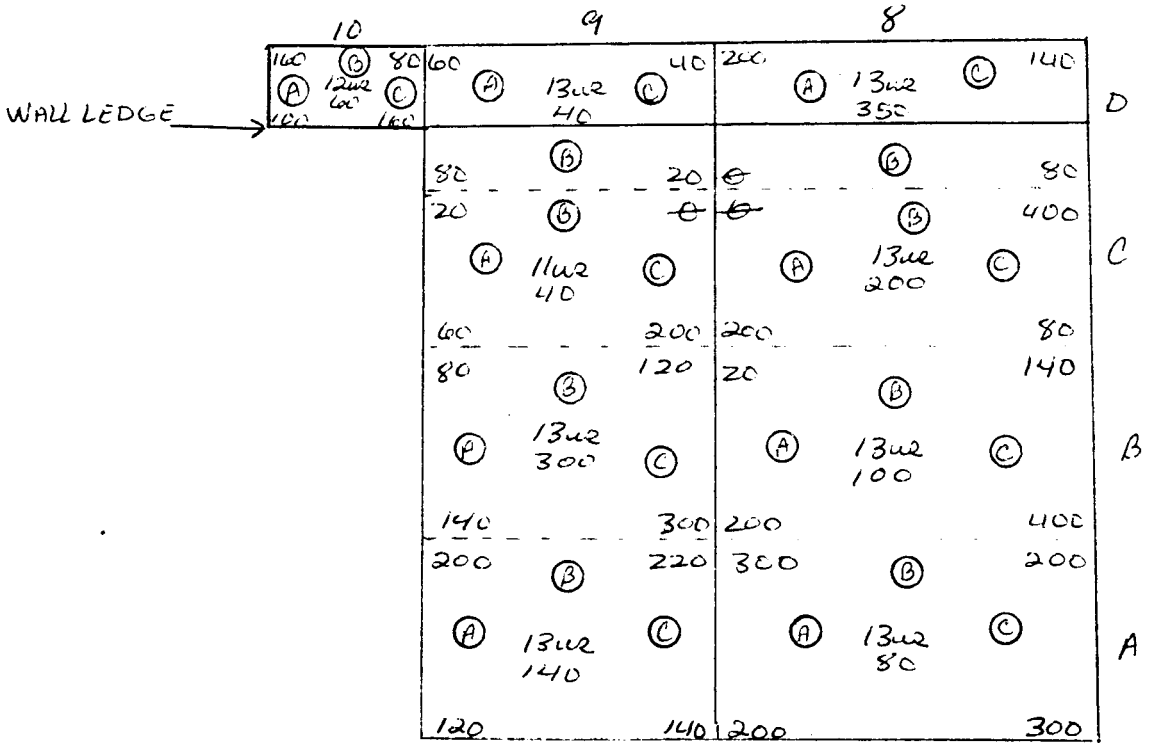
ATGS #: fmr072

DATE: 7-31-96	INSTRUMENTATION USED				
TIME: 0705	MODEL	SERIAL #	EFF.%	BKGRD	CAL. DUE DATE
SURVEYOR: E. Humphries / C. Humphries / D. Golston	18	118294	20	200-400	11-5-96
LOCATION: BLDG 3192 HOT CELL WEST WALL	18	118295	20	200-400	11-8-96
REVIEWED BY: NSW	19	131291	N/A	10-14	12-19-96
Smear Locations Circled. Dose Rates = microR/hr (μR/hr)					

PURPOSE OF SURVEY: Unconditional Release of Inside HOT CELL Per the Release CRITERIA of NRC REGULATORY GUIDE 1.86

NOTE: ALL SMEARS TAKEN = 100 cm^2 ALL DIRECT READINGS = 100 cm^2 / PROBE AREA

HOT CELL WEST WALL



SMEAR COUNTING ANALYSIS REPORT

DATE:	ATGS#:	ANALYSIS PERFORMED BY:
7-30-96	FMR 072	Randy West

COUNTING SYSTEM DATA

INSTRUMENT I.D. 99045	DETECTOR I.D. 098325
EFFICIENCIES: α .261% βγ .149%	MDA: α 8 DPM βγ 227 Dpm
PERFORMED BY: E Humphries	
SAMPLE COUNT TIME: 1 min	ACTIVITY REPORT IN: ☒ dpm ☐ μCi
α BACKGROUND: 0.2 cpm	βγ BACKGROUND: 53 cpm

SAMPLE I.D. OR DESCRIPTION	GROSS COUNTS α	GROSS COUNTS βγ	NET COUNTS α	NET COUNTS βγ	ACTIVITY α	ACTIVITY βγ
A-9-A BLDG 3192	1	40	.8	-13	<MDA	<MDA
A-9-B I/S Hot Cell	~~0~~	52	-.2	-1		
A-9-C West Wall	~~0~~	54	-.2	+1		
B-9-A	~~0~~	54	-.2	1		
B-9-B	~~0~~	55	-.2	2		
B-9-C	0	48	-.2	-5		
C-9-A	1	60	.8	7		
C-9-B	1	42	.8	-11		
C-9 C	0	62	-.2	9		
D-9-A	2	56	1.8	3		
D-9-B	1	49	.8	-4		
D-9-C	1	46	.8	-7		
A-8-A	~~0~~	66	-.2	13		
A-8-B	~~0~~	60	-.2	7		
A-8-C	1	59	.8	6		
B-8-A	0	55	-.2	2		
B-8-B	0	53	-.2	0		
B-8-C	0	61	-.2	8		
C-8-A	0	65	-.2	11		
C-8-B	0	44	-.2	-9		

Remarks:

Reviewed By: NSW

Date: 7-30-96

SMEAR COUNTING ANALYSIS REPORT

DATE:	ATGS#:	ANALYSIS PERFORMED BY:
7-30-96	FMR 072	Randy West

COUNTING SYSTEM DATA

INSTRUMENT I.D. 99045	DETECTOR I.D. 098325
EFFICIENCIES: α .261% βγ .149%	MDA: α 8 DPM βγ 227 DPM
PERFORMED BY: E Humphries	
SAMPLE COUNT TIME: 1 min	ACTIVITY REPORT IN: ☒ dpm ☐ μCi
α BACKGROUND: 0.2 cpm	βγ BACKGROUND: 53 cpm

SAMPLE I.D. OR DESCRIPTION	GROSS COUNTS α	GROSS COUNTS βγ	NET COUNTS α	NET COUNTS βγ	ACTIVITY α	ACTIVITY βγ
C-8-C BLDG 3192	1	61	.8	8	<MDA	<MDA
D-8-A I/S HOT Cell	0	48	-.2	-5		
D-8-B West wall	0	43	-.2	-10		
D-8-C	0	43	-.2	-10		
BLANK	1	68	.8	15	<MDA	<MDA

Remarks:

Reviewed By: NSW

Date: 7-30-96

SMEAR COUNTING ANALYSIS REPORT

DATE:	ATGS#:	ANALYSIS PERFORMED BY:
7-31-96	FMR 072	K Corbett

COUNTING SYSTEM DATA

INSTRUMENT I.D. 126128	DETECTOR I.D. 133067
EFFICIENCIES: α .266 βγ .243	MDA: α 6 DPM βγ 140 DPM
PERFORMED BY: E. Humphres	
SAMPLE COUNT TIME: 1 min	ACTIVITY REPORT IN: ☒ dpm ☐ μCi
α BACKGROUND: 0.1 cpm	βγ BACKGROUND: 54 cpm

SAMPLE I.D. OR DESCRIPTION		GROSS COUNTS α	GROSS COUNTS βγ	NET COUNTS α	NET COUNTS βγ	ACTIVITY α	ACTIVITY βγ
EAST	10-D-A	0	60	-.1	6	<MDA	<MDA
Hotcell	10-D-B	0	54	↓	0	↓	↓
Wall	10-D-C	0	53	↓	-1	↓	↓
I/S	BLANK	0	62	↓	8	↓	↓
			N A				

Remarks: FM 107

Reviewed By: NSW

Date: 7-31-96

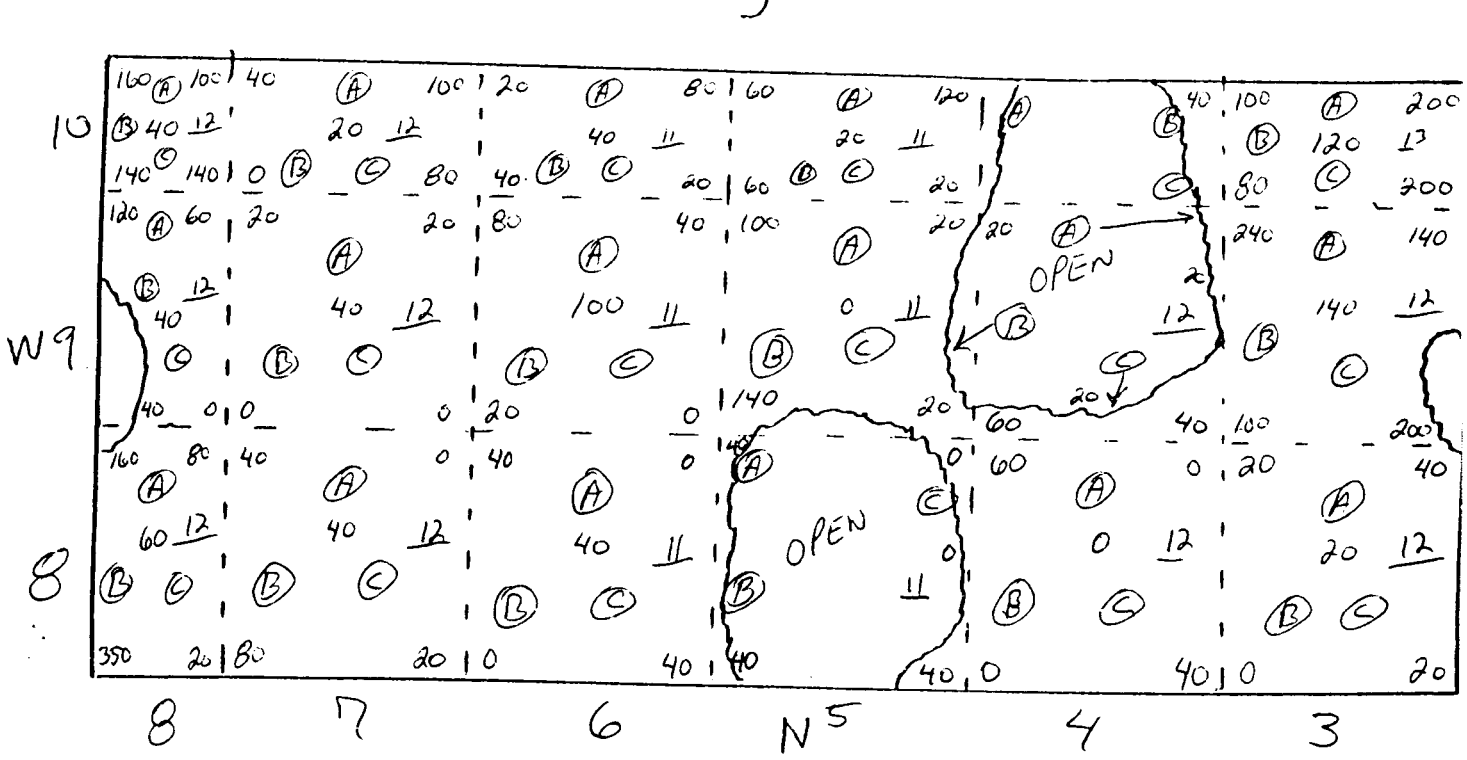
RADIOLOGICAL SURVEY REPORT

ATGS #: FMR-061

DATE: 7-30-96	INSTRUMENTATION USED				
TIME: 0600 TO 1500	MODEL	SERIAL #	EFF.%	BKGRD	CAL. DUE DATE
SURVEYOR: D. CORBETT	19	98102	—	12 uR/HR	9-25-96
LOCATION: BLDG 3192 FOYER, HOT CELL I/S CEILING	~~19~~	~~118245~~ / ~~127608~~		8 uR/HR	~~7-31-96~~
REVIEWED BY: MSW	19	118245 / 127608	20	260-300 CPM	11-8-96
Smear Locations Circled. Dose Rates = microR/hr (μR/hr)	19	98112	—	8 uR/HR	12-7-96

PURPOSE OF SURVEY: SURVEY FOR UNCONDITIONAL RELEASE AS PER CRITERIA ESTABLISHED IN NRC REGULATORY GUIDE 1.86, SMEAR RESULTS ATTACHED, DOSE RATES ARE UNDERLINED NUMBERS, NUMBERS ARE COUNTS PER MINUTE ABOVE BACKGROUND

I/S HOT CELL CEILING LOOKING UP



SMEAR COUNTING ANALYSIS REPORT

DATE:	ATGS#:	ANALYSIS PERFORMED BY:
7-30-96	FMR-061	Randy West

COUNTING SYSTEM DATA

INSTRUMENT I.D. 99045	DETECTOR I.D. 098325
EFFICIENCIES: α .261% βγ .149%	MDA: α 8 dpm βγ 227 dpm
PERFORMED BY: D. CorbeTT	
SAMPLE COUNT TIME: 1 min	ACTIVITY REPORT IN: ☒ dpm ☐ μCi
α BACKGROUND: 0.2 cpm	βγ BACKGROUND: 53 cpm

SAMPLE I.D. OR DESCRIPTION	GROSS COUNTS α	GROSS COUNTS βγ	NET COUNTS α	NET COUNTS βγ	ACTIVITY α	ACTIVITY βγ
3-10-A BLDG 3192	0	50	-.2	-3	<MDA	<MDA
3-10-B I/S HotCell	0	55	-.2	2		
3-10-C Ceiling	0	48	-.2	-5		
3-9-A	0	60	-.2	7		
3-9-B	0	44	-.2	-9		
3-9-C	0	61	-.2	8		
3-8-A	0	60	-.2	7		
3-8-B	1	60	.8	7		
3-8-C	0	52	-.2	-1		
4-10-A	2	61	1.8	8		
4-10-B	0	59	-.2	6		
4-10-C	0	65	-.2	12		
4-9-A	1	63	.8	10		
4-9-B	0	56	-.2	3		
4-9-C	0	48	-.2	-5		
4-8-A	1	62	.8	9		
4-8-B	0	66	-.2	13		
4-8-C	0	76	-.2	23		
5-10-A	0	44	-.2	-9		
5-10-B	0	53	-.2	0	<MDA	<MDA

Remarks:

Reviewed By: MW

Date: 7-30-96

SMEAR COUNTING ANALYSIS REPORT

DATE:	ATGS#:	ANALYSIS PERFORMED BY:
7-30-96	FMR-061	Randy West

COUNTING SYSTEM DATA

INSTRUMENT I.D. 99045	DETECTOR I.D. 098325
EFFICIENCIES: α .261% βγ .149%	MDA: α 8 DPM βγ 2270
PERFORMED BY:	
SAMPLE COUNT TIME: 1 min	ACTIVITY REPORT IN: ☒ dpm ☐ μCi
α BACKGROUND: 0.2 cpm	βγ BACKGROUND: 53 cpm

SAMPLE I.D. OR DESCRIPTION	GROSS COUNTS α	GROSS COUNTS βγ	NET COUNTS α	NET COUNTS βγ	ACTIVITY α	ACTIVITY βγ
5-10-C BLDG 3192	0	63	-.2	10	<MDA	<MDA
5-9-A I/S Hot Cell	0	58	-.2	5		
5-9-B Ceiling	1	49	.8	-4		
5-9-C	0	43	-.2	-10		
5-8-A	0	54	-.2	1		
5-8-B	0	56	-.2	3		
5-8-C	0	54	-.2	1		
6-10-A	2	51	1.8	-2		
6-10-B	0	60	-.2	7		
6-10-C	2	62	1.8	9		
6-9-A	0	53	-.2	0		
6-9-B	0	64	-.2	11		
6-9-C	0	81	-.2	28		
6-8-A	1	62	.8	9		
6-8-B	0	60	-.2	7		
6-8-C	1	65	.8	12		

Remarks:

Reviewed By: RSW

Date: 7-30-96

SMEAR COUNTING ANALYSIS REPORT

DATE:	ATGS#:	ANALYSIS PERFORMED BY:
7-30-96	FMR-061	R. Trangas

COUNTING SYSTEM DATA

INSTRUMENT I.D. 126128	DETECTOR I.D. 133007
EFFICIENCIES: α .263% βγ .241%	MDA: α 8 Dpm βγ 139 Dpm
PERFORMED BY: D Corbett	
SAMPLE COUNT TIME: 1 MIN	ACTIVITY REPORT IN: ☑ dpm ☐ μCi
α BACKGROUND: 0.2 cpm	βγ BACKGROUND: 52 cpm

SAMPLE I.D. OR DESCRIPTION	GROSS COUNTS α	GROSS COUNTS βγ	NET COUNTS α	NET COUNTS βγ	ACTIVITY α	ACTIVITY βγ
7-8-A Bldg 3192	0	58	-.2	6	<MDA	<MDA
7-8-B 1/S Hot Cell	0	57	-.2	5		
7-8-C Ceiling	0	50	-.2	-2		
7-9-A	0	41	-.2	-11		
7-9-B	0	52	-.2	0		
7-9-C	0	46	-.2	-6		
7-10-A	0	52	-.2	0		
7-10-B	1	49	.8	-3		
7-10-C	0	66	-.2	16		
8-8-A	0	45	-.2	-7		
8-8-B	0	43	-.2	-9		
8-8-C	0	61	-.2	9		
9-8-A	0	50	-.2	-2		
9-8-B	0	53	-.2	1		
9-8-9	0	47	-.2	-5		
10-8-A	0	52	-.2	0		
10-8-B	0	45	-.2	-7		
10-8-C	0	54	-.2	2		
BLANK	0	47	-.2	-5	<MDA	<MDA

Remarks:

Reviewed By:	Date:
NSW	7-30-96

RADIOLOGICAL SURVEY REPORT

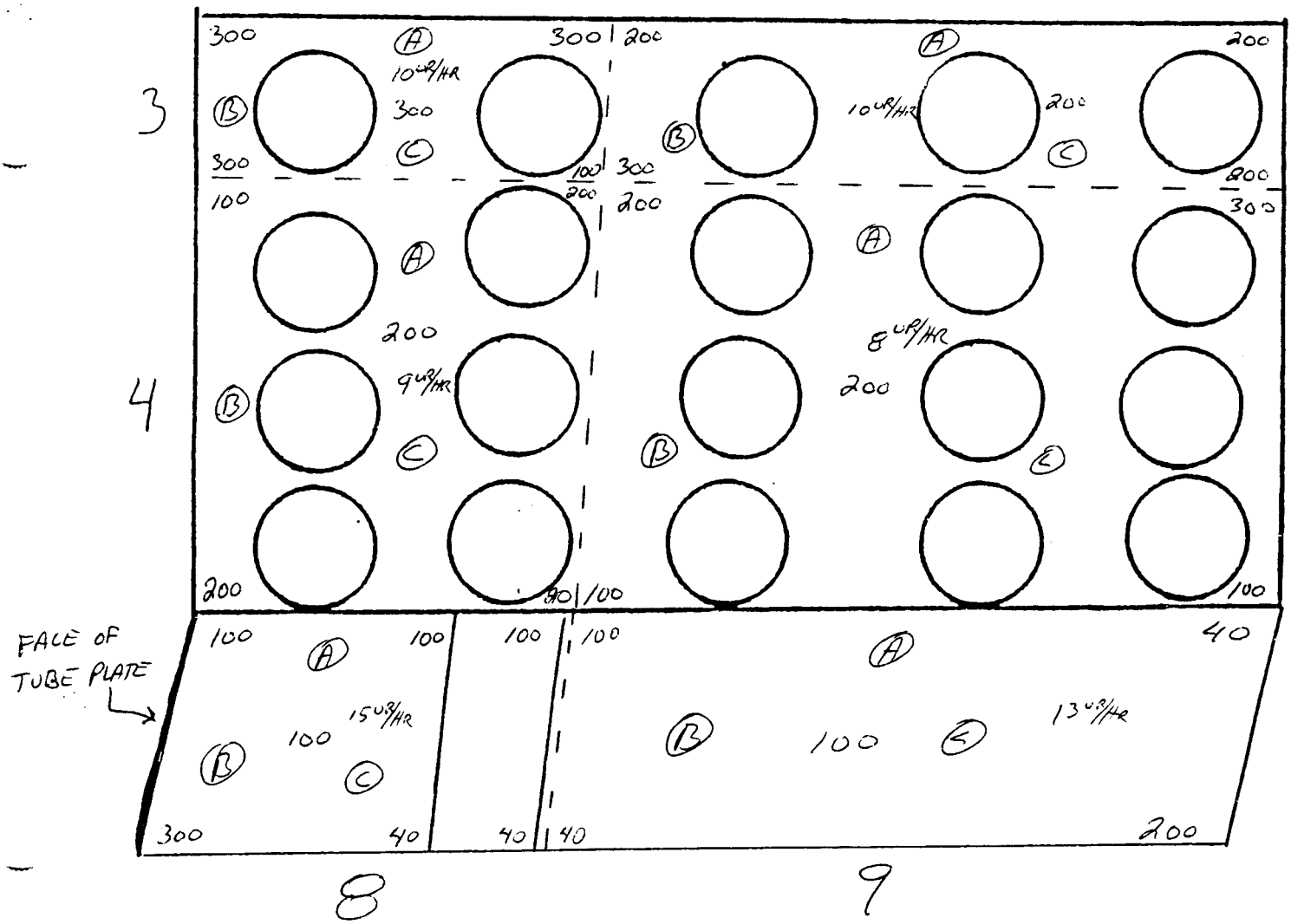
ATGS #: FMR-084

DATE: 7-31-96	INSTRUMENTATION USED				
TIME: 1415	MODEL	SERIAL #	EFF.%	BKGRD	CAL. DUE DATE
SURVEYOR: E. HUMPHRD O. CORBETT / E. GOLDSTON	19	98112	—	7 uR/HR	12-7-96
LOCATION: BLDG 3192 FOYER HOT CELL I/S	18	118294 / 127608	20	400 cpm	11-8-96
REVIEWED BY: NSW				A	
Smear Locations Circled. Dose Rates = microR/hr (μR/hr)			N		

PURPOSE OF SURVEY: SURVEY FOR UNCONDITIONAL RELEASE ~~OF~~ AS PER CRITERIA ESTABLISHED IN NRC GUIDE 1.86, SMEAR RESULTS ATTACHED

NUMBERS ARE COUNTS PER MINUTE ABOVE BACKGROUND

HOT CELL I/S TUBE SHEET



SMEAR COUNTING ANALYSIS REPORT

DATE:	ATGS#:	ANALYSIS PERFORMED BY:
7-31-96	FMR084	K CorbeA

COUNTING SYSTEM DATA

INSTRUMENT I.D. 126128	DETECTOR I.D. 133007
EFFICIENCIES: α .266 βγ .243	MDA: α 6 βγ 140
PERFORMED BY: D. GoldstoN	CAL DUE DATE 12-14-96
SAMPLE COUNT TIME: 1 min	ACTIVITY REPORT IN: ☒ dpm ☐ μCi
α BACKGROUND: .1 cpm	βγ BACKGROUND: 54 cpm

SAMPLE I.D. OR DESCRIPTION	GROSS COUNTS α	GROSS COUNTS βγ	NET COUNTS α	NET COUNTS βγ	ACTIVITY α	ACTIVITY βγ
TOP 39A	0	53	-.1	-1	<MDA	<MDA
39B	0	59	-.1	5		
39C	1	47	0.9	-7		
38A	0	50	-.1	-4		
38B	0	47	-.1	-7		
38C	0	53	-.1	-1		
49A	0	56	-.1	2		
49B	0	57	-.1	3		
49C	0	55	-.1	1		
48A	0	61	-.1	7		
48B	0	42	-.1	-12		
48C	0	55	-.1	1		
SIDE 9A	0	54	-.1	0		
9B	0	48	-.1	-6		
9C	0	55	-.1	1		
8A	0	61	-.1	7		
8B	0	43	-.1	-11		
8C	0	45	-.1	-9		
BLANK	0	44	-.1	-10	↓	↓
		N A				

Remarks: HOT CELL TUBE(~~TOP~~) SHEET

Reviewed By:	Date:
NSW	7-31-96

HOT CELL

MANIPULATOR ARMS

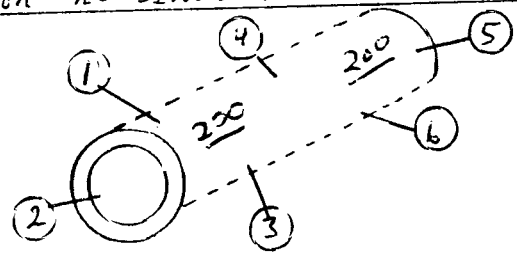
RADIOLOGICAL SURVEY REPORT

AIGS #: FMR-075

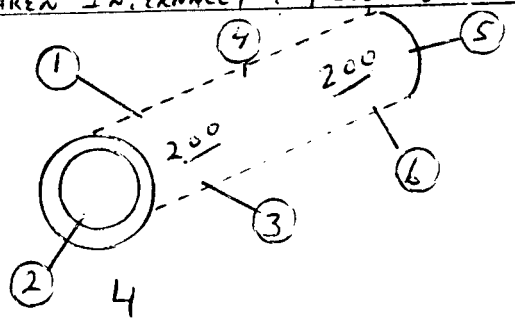
DATE: 7-31-96	INSTRUMENTATION USED				
TIME: 0945	MODEL	SERIAL #	EFF.%	BKGRD	CAL. DUE DATE
SURVEYOR: D. Goldston/C. Humphries	18	118295	20	200	11-8-96
LOCATION: BLDG 3192 MANIPULATOR ARM Hot Cell - HOLES - South Wall					
REVIEWED BY: NSW					
Smear Locations Circled Dose Rates = microR/hr (uR/hr)					

PURPOSE OF SURVEY: Unconditional Release of BLDG 3192 in accordance with the standards of NRC Regulatory Guide 1.86 - ALL SMEARS TAKEN = 10

RADIATION READINGS ARE UNDERLINED & TAKEN INTERNALLY & recorded in CPM

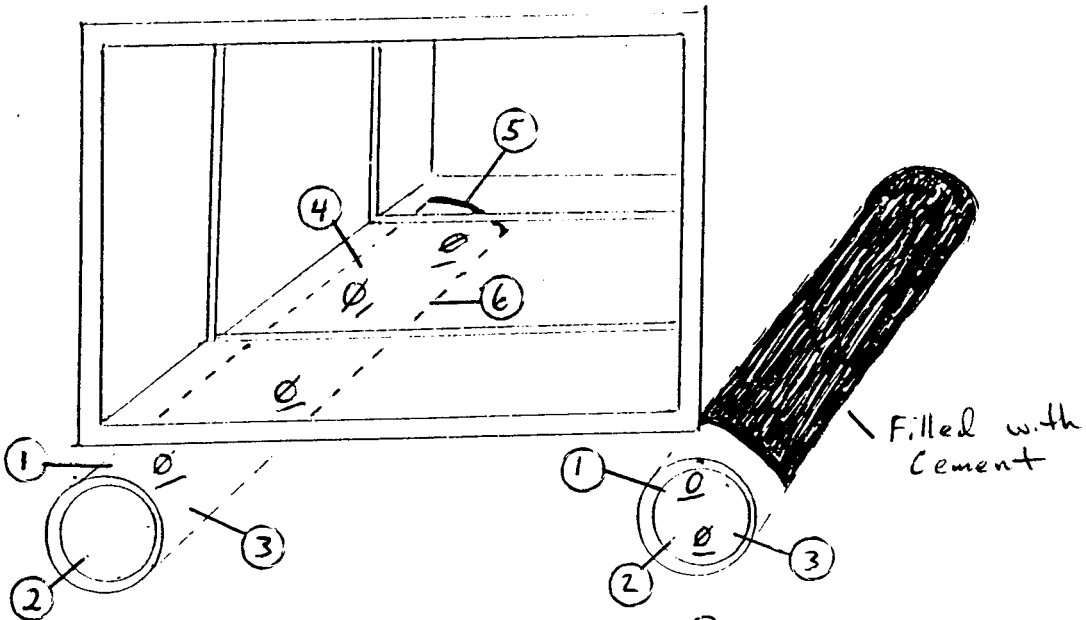


3



4

Hot Cell Manipulator Arm Holes - South Wall



1

2

RADIOLOGICAL SURVEY REPORT

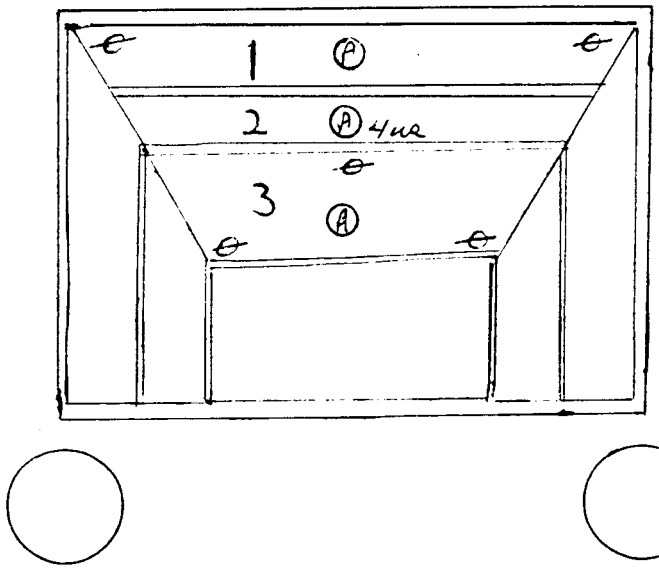
ATGS #: 075

DATE: 7-31-96	INSTRUMENTATION USED				
TIME: 0945	MODEL	SERIAL #	EFF.%	BKGRD	CAL. DUE DATE
SURVEYOR: C. Numphres	18	118295	20	200	11-8-96
LOCATION: BLDG 3192 T/S top of shield window	19	98112	W/A	3-4	12-7-96
REVIEWED BY: NSW					
Smear Locations Circled Dose Rates = microR/hr (μR/hr)					

PURPOSE OF SURVEY: Unconditional Release of BLDG 3192 in accordance with the standards of NRC Regulatory Guide 1.86. All smears taken = 100 cm^2

WEST →

INSIDE TOP OF SHIELD WINDOW



RADIOLOGICAL SURVEY REPORT

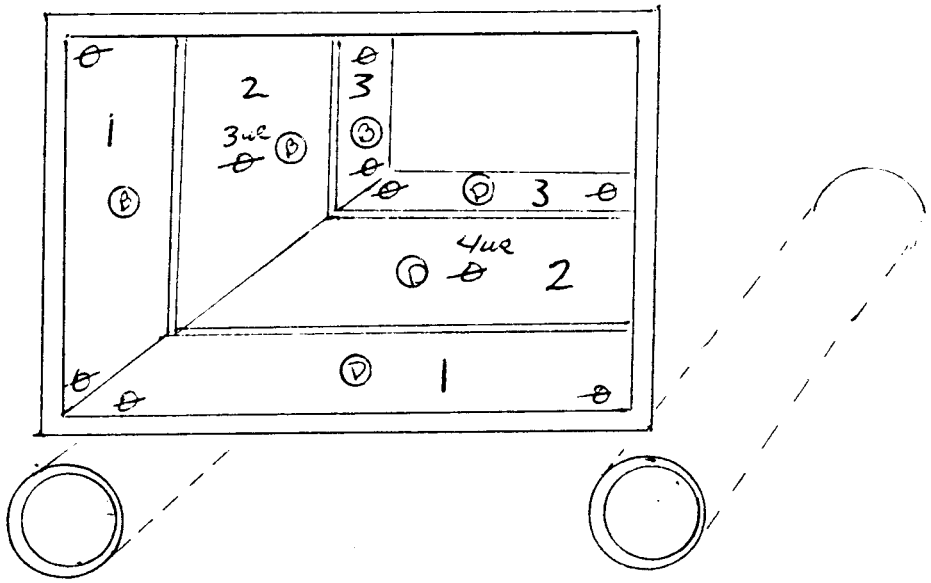
ATGS #: 075

DATE: 7-31-96	INSTRUMENTATION USED				
TIME: 0945	MODEL	SERIAL #	EFF.%	BKGRD	CAL. DUE DATE
SURVEYOR: C. Humphries	18	118295	20	200	11-8-96
LOCATION: BLDG 3192 I/S Left and Bottom Surface shield window	19	98112	N/A	3-4	12-7-96
REVIEWED BY: NSW					
Smear Locations Circled. Dose Rates = microR/hr (μR/hr)					

PURPOSE OF SURVEY: Unconditional Release of BLDG 3192 in accordance with the standards of NRC Regulatory Guide 1.86

ALL Smears TAKEN = 100 cm^2

VIEW OF LEFT INSIDE AND BOTTOM INNER SURFACE OF SHIELD WINDOW



RADIOLOGICAL SURVEY REPORT

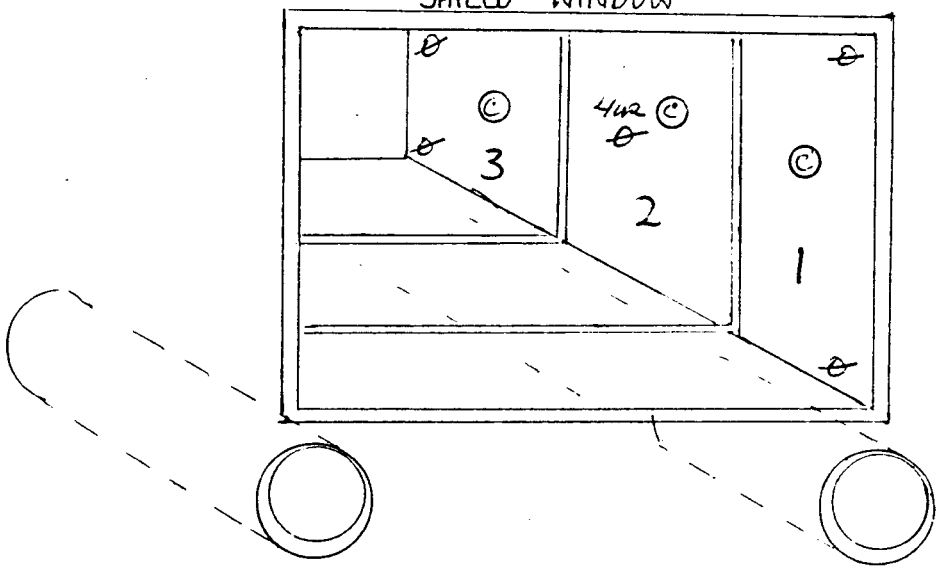
ATGS #: 075

DATE: 7-31-96	INSTRUMENTATION USED				
TIME: 0945	MODEL	SERIAL #	EFF.%	BKGRD	CAL. DUE DATE
SURVEYOR: C. Humphries	18	118295	20	200	11-8-96
LOCATION: ~~I/S~~ BLDG 3192 Right and Bottom surface of Shield Window	19	98112	N/A	3-4	12-7-96
REVIEWED BY: NSW					
Smear Locations Circled. Dose Rates = microR/hr (μR/hr)					

PURPOSE OF SURVEY: Unconditional Release of BLDG 3192 in accordance with the standards of NRC Regulatory Guide 1.86

All Smears TAKEN = 100 cm^2

VIEW OF RIGHT INSIDE AND BOTTON SURFACE OF SHIELD WINDOW



SMEAR COUNTING ANALYSIS REPORT

DATE:	ATGS#:	ANALYSIS PERFORMED BY:
7-30-96	FMR-075	R. West

COUNTING SYSTEM DATA

INSTRUMENT I.D. 126128	DETECTOR I.D. 133007
EFFICIENCIES: α 26.3% βγ 24.1%	MDA: α 8 DPM βγ 139 DPM
PERFORMED BY: D. Goldston	
SAMPLE COUNT TIME: 1 min	ACTIVITY REPORT IN: ☒ dpm ☐ μCi
α BACKGROUND: 0.2 cpm	βγ BACKGROUND: 52 cpm

SAMPLE I.D. OR DESCRIPTION	GROSS COUNTS α	GROSS COUNTS βγ	NET COUNTS α	NET COUNTS βγ	ACTIVITY α	ACTIVITY βγ
1-A Hot Cell	1	53	.8	1	<MDA	<MDA
1-B Window	0	58	-.2	6		
1-C	0	54	-.2	2		
1-D	0	59	-.2	7		
2-A	0	49	-.2	-3		
2-B	0	56	-.2	4		
2-C	0	48	-.2	-4		
2-D	0	53	-.2	1		
3-A	1	43	.8	-9		
3-B	0	53	-.2	1		
3-C	0	63	-.2	11		
3-D	0	42	-.2	-11		
1 Hole #1 Hot Cell	0	51	-.2	-1		
2	1	47	.8	-5		
3	0	65	-.2	12		
4	0	58	-.2	6		
5	0	46	-.2	RW=86		
6	0	42	-.2	10		
1 Hole# 2 Hot Cell	0	46	-.2	-6		
2	0	48	-.2	-4	<MDA	<MDA

Remarks:

Reviewed By: NSW

Date: 7-30-96

SMEAR COUNTING ANALYSIS REPORT

DATE:	ATGS#:	ANALYSIS PERFORMED BY:
7-30-96	FMR-075	R. West

COUNTING SYSTEM DATA

INSTRUMENT I.D. 126128	DETECTOR I.D. 133007
EFFICIENCIES: α 26.3% βγ 24.1%	MDA: α 8 DPM βγ 139 DPM
PERFORMED BY: D. Goldston	
SAMPLE COUNT TIME: 1 min	ACTIVITY REPORT IN: ☒ dpm ☐ μCi
α BACKGROUND: 0.2 cpm	βγ BACKGROUND: 52 cpm

SAMPLE I.D. OR DESCRIPTION	GROSS COUNTS α	GROSS COUNTS βγ	NET COUNTS α	NET COUNTS βγ	ACTIVITY α	ACTIVITY βγ
3 Hole #2 HoT cell	0	45	-.2	-7	<MDA	<MDA
1 Hole #3 HoT cell	0	50	-.2	-2		
2	0	66	-.2	14		
3	0	46	-.2	-6		
4	0	49	-.2	-3		
5	0	43	-.2	-9		
6	0	67	-.2	15		
1 Hole #4 HoT Cell	0	57	-.2	5		
2	0	57	-.2	5		
3	0	54	-.2	2		
4	0	82	-.2	30		
5	0	55	-.2	3		
6	0	62	-.2	10		
BIANK	0	42	-.2	-10		

Remarks:

Reviewed By: NSW

Date: 7-30-96

HOT CELL

FLOOR, CEILING

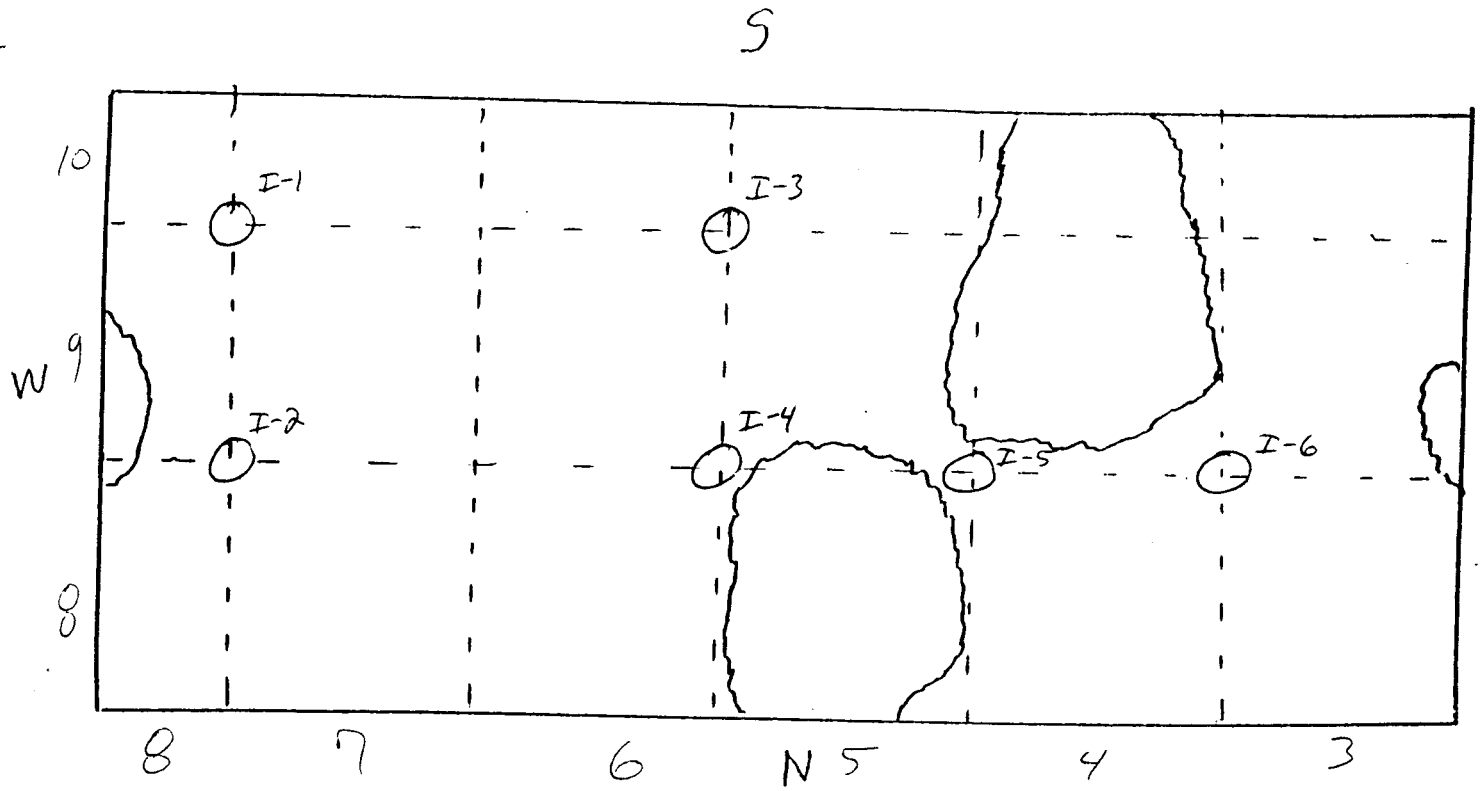
RADIOLOGICAL SURVEY REPORT

ATGS #: FMR-063

DATE: 7-30-96 TO 7-31-96	INSTRUMENTATION USED				
TIME: 0600 TO 1500	MODEL	SERIAL #	EFF.%	BKGRD	CAL. DUE DATE
SURVEYOR: O. CORBETT					
LOCATION: BLDG 3192 I/S HOTCELL FOYER				~ A	
REVIEWED BY: NSW					
Smear Locations Circled Dose Rates = microR/hr (μR/hr)					

PURPOSE OF SURVEY: QA SURVEY POINT REFERENCE MAP

I/S HOT CELL CEILING LOOKING UP



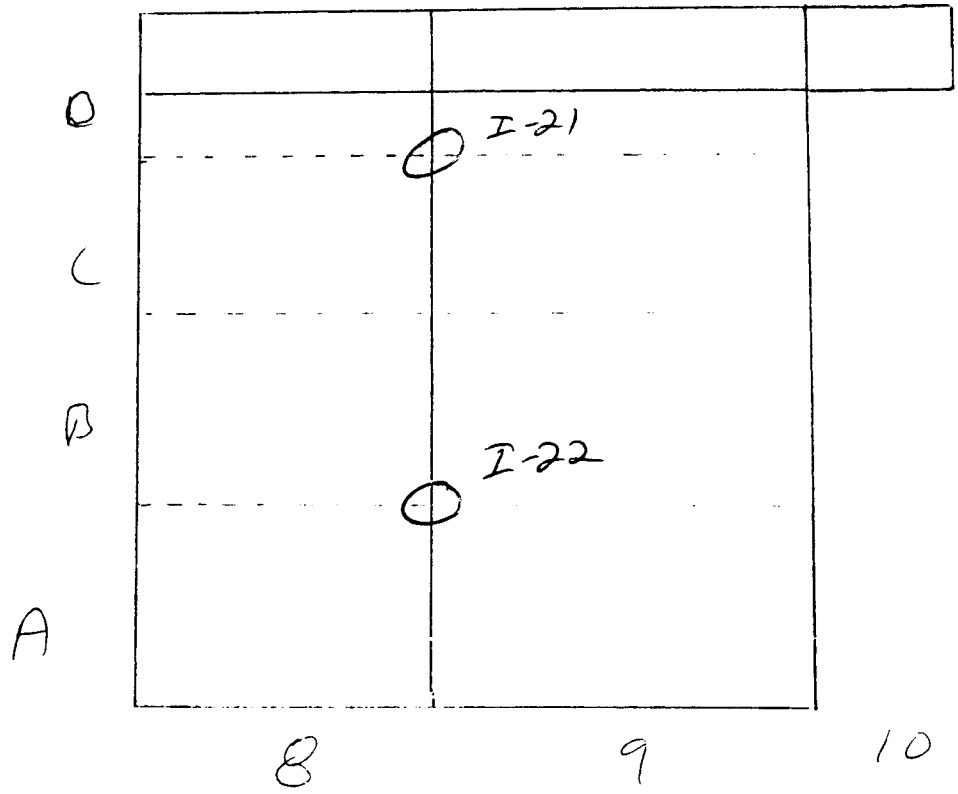
RADIOLOGICAL SURVEY REPORT

ATGS #: FMR-063

DATE: 7-30-96 TO 7-31-96	INSTRUMENTATION USED				
TIME: 0600 TO 1500	MODEL	SERIAL #	EFF.%	BKGRD	CAL. DUE DATE
SURVEYOR: D. CORBETT				A	
LOCATION: BLDG 3192 FOYER I/S HOT CELL			W		
REVIEWED BY: NSW					
Smear Locations Circled. Dose Rates = microR/hr (µR/hr)					

PURPOSE OF SURVEY: QA SURVEY POINT REFERENCE MAP

I/S HOT CELL EAST WALL



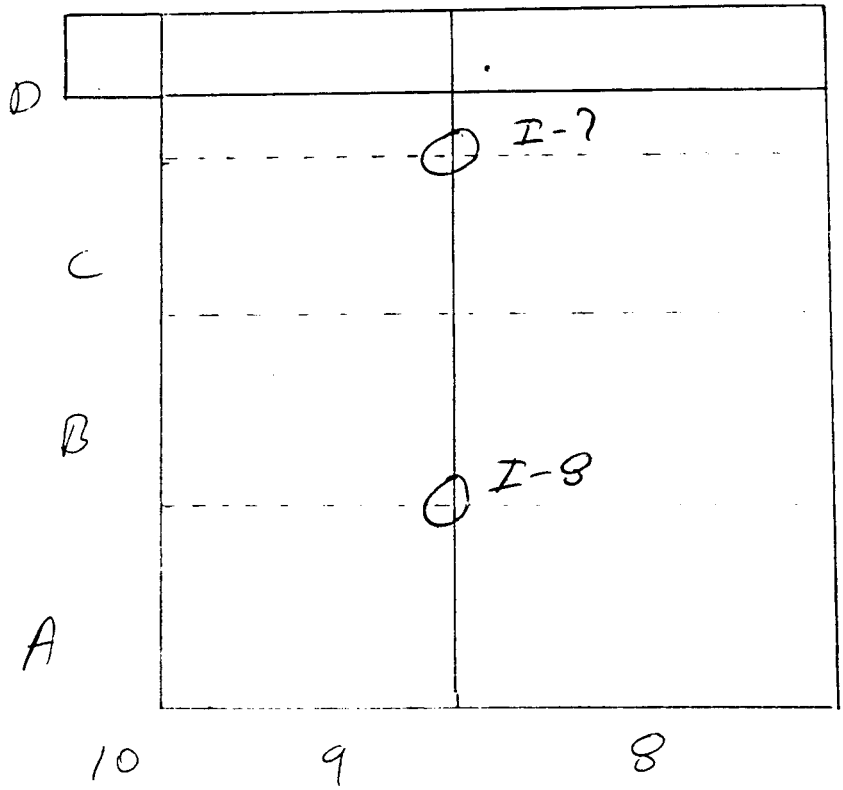
RADIOLOGICAL SURVEY REPORT

ATGS #: FMR-063

DATE: 7-30-96 TO 7-31-96	INSTRUMENTATION USED				
TIME: 0600 TO 1500	MODEL	SERIAL #	EFF.%	BKGRD	CAL. DUE DATE
SURVEYOR: D. CORBETT				A	
LOCATION: BLDG 3192 FOYER I/S HOT CELL			N		
REVIEWED BY: NSW					
Smear Locations Circled Dose Rates = microR/hr (μR/hr)					

PURPOSE OF SURVEY: QA SURVEY POINT REFERENCE MAP

I/S HOT CELL WEST WALL



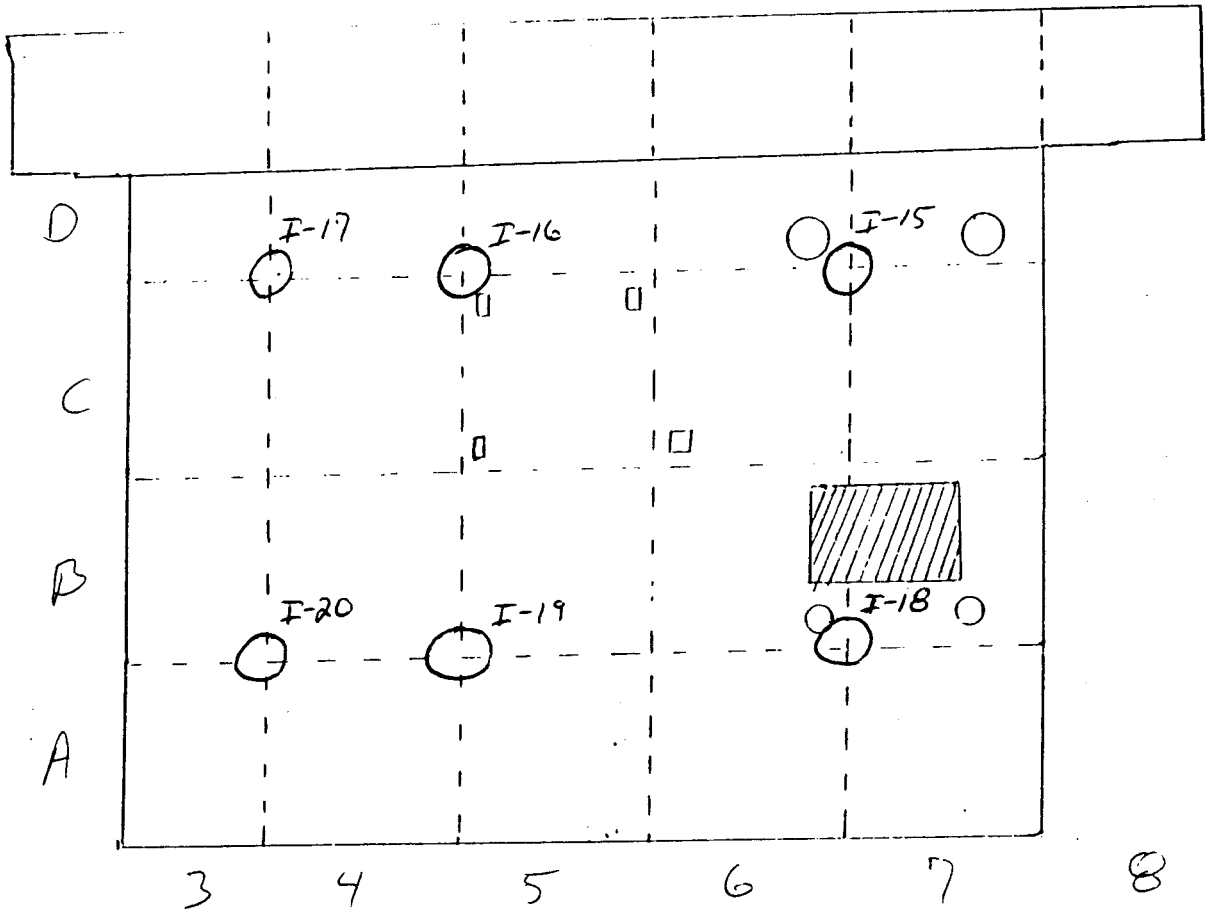
RADIOLOGICAL SURVEY REPORT

ATGS #: FMR-063

	INSTRUMENTATION USED				
DATE: 7-30-96 TO 7-31-96	MODEL	SERIAL #	EFF.%	BKGRD	CAL. DUE DATE
TIME: 0600 TO 1500					
SURVEYOR: Q. CORBETT					
LOCATION: BLDG 3192 FOYER I/S HOT CELL					
REVIEWED BY: NSW					
Smear Locations Circled · Dose Rates = microR/hr (μR/hr)					

PURPOSE OF SURVEY: QA SURVEY POINT REFERENCE MAP

I/S HOT CELL SOUTH WALL



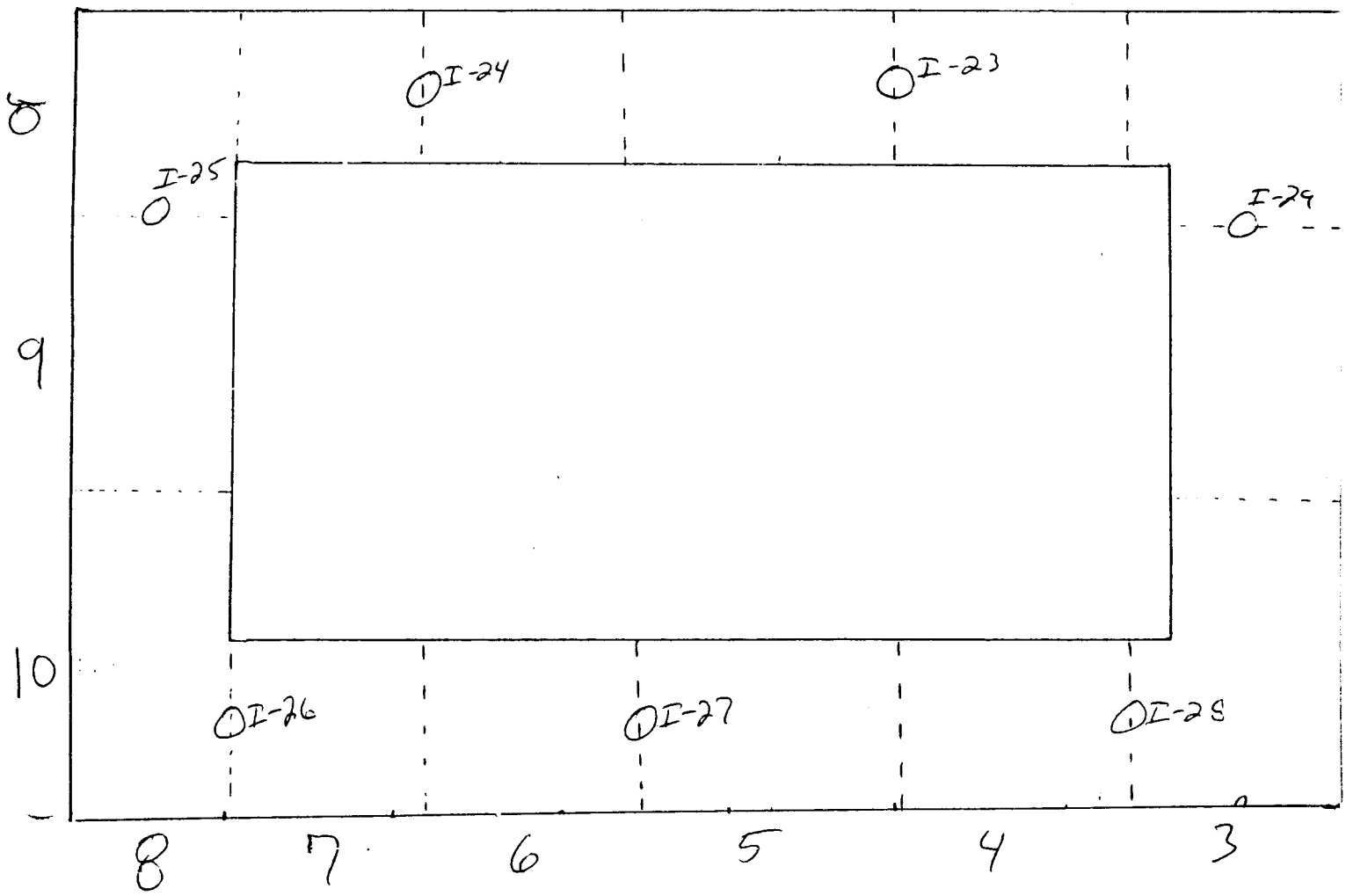
RADIOLOGICAL SURVEY REPORT

ATGS #: FMR-063

DATE: 7-30-96 TO 7-31-96	INSTRUMENTATION USED				
TIME: 0600 TO 1500	MODEL	SERIAL #	EFF.%	BKGRD	CAL. DUE DATE
SURVEYOR: D. CORBETT				A	
LOCATION: BLDG 319A FOYER I/S HOT CELL UPPER LEDGE				N	
REVIEWED BY: NSW					
Smear Locations Circled. Dose Rates = microR/hr (μR/hr)					

PURPOSE OF SURVEY: QA SURVEY POINT REFERENCE MAP

I/S HOT CELL UPPER LEDGE



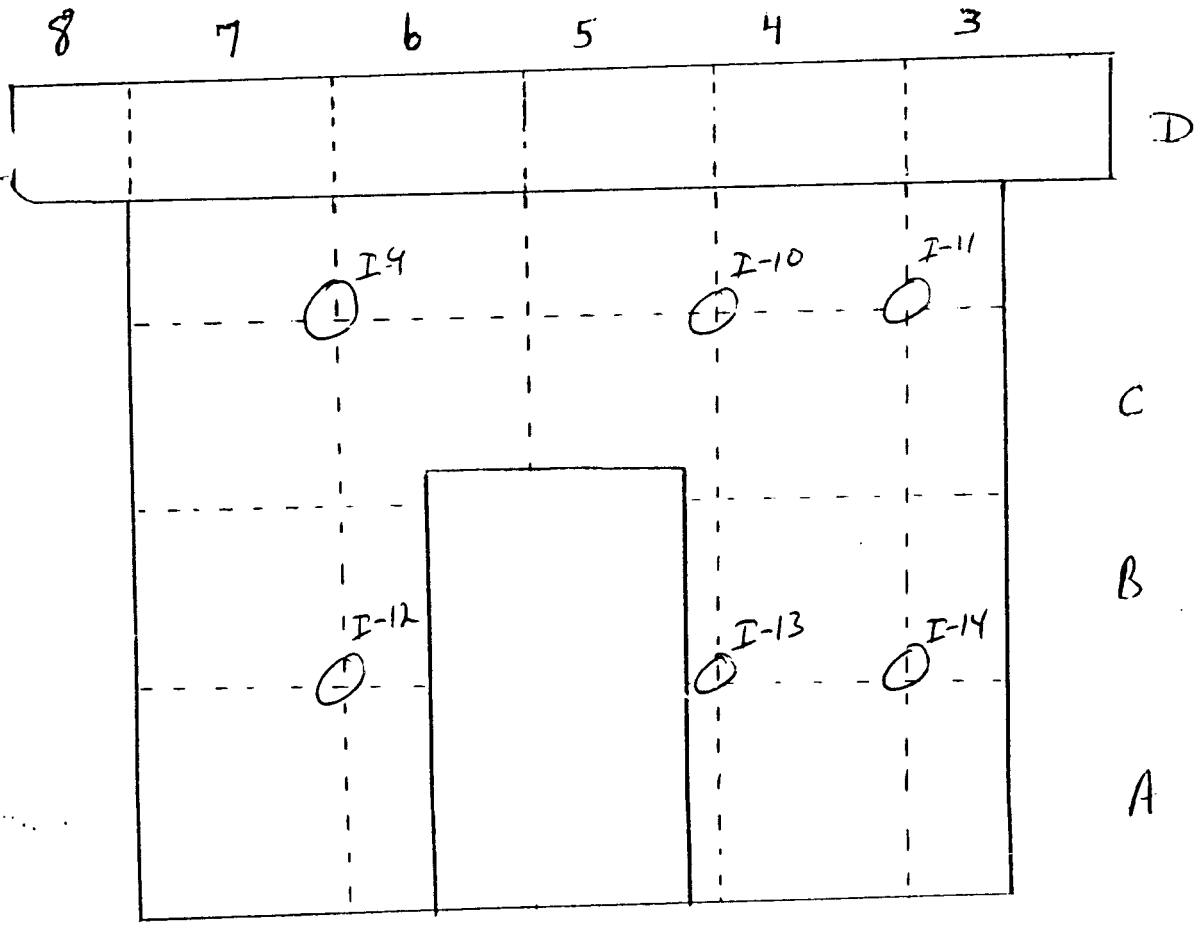
RADIOLOGICAL SURVEY REPORT

ATOS #: FMR-063

DATE: 7-30-96 TO 7-31-96	INSTRUMENTATION USED				
TIME: 0600 TO 1500	MODEL	SERIAL #	EFF.%	BKGRD	CAL. DUE DATE
SURVEYOR: D. CORBETT					
LOCATION: BLDG 3192 FOYER I/S HOT CELL					
REVIEWED BY: NSW					
Smear Locations Circled. Dose Rates – microR/hr (μR/hr)					

PURPOSE OF SURVEY: QA SURVEY POINT REFERENCE MAP

I/S HOT CELL NORTH WALL



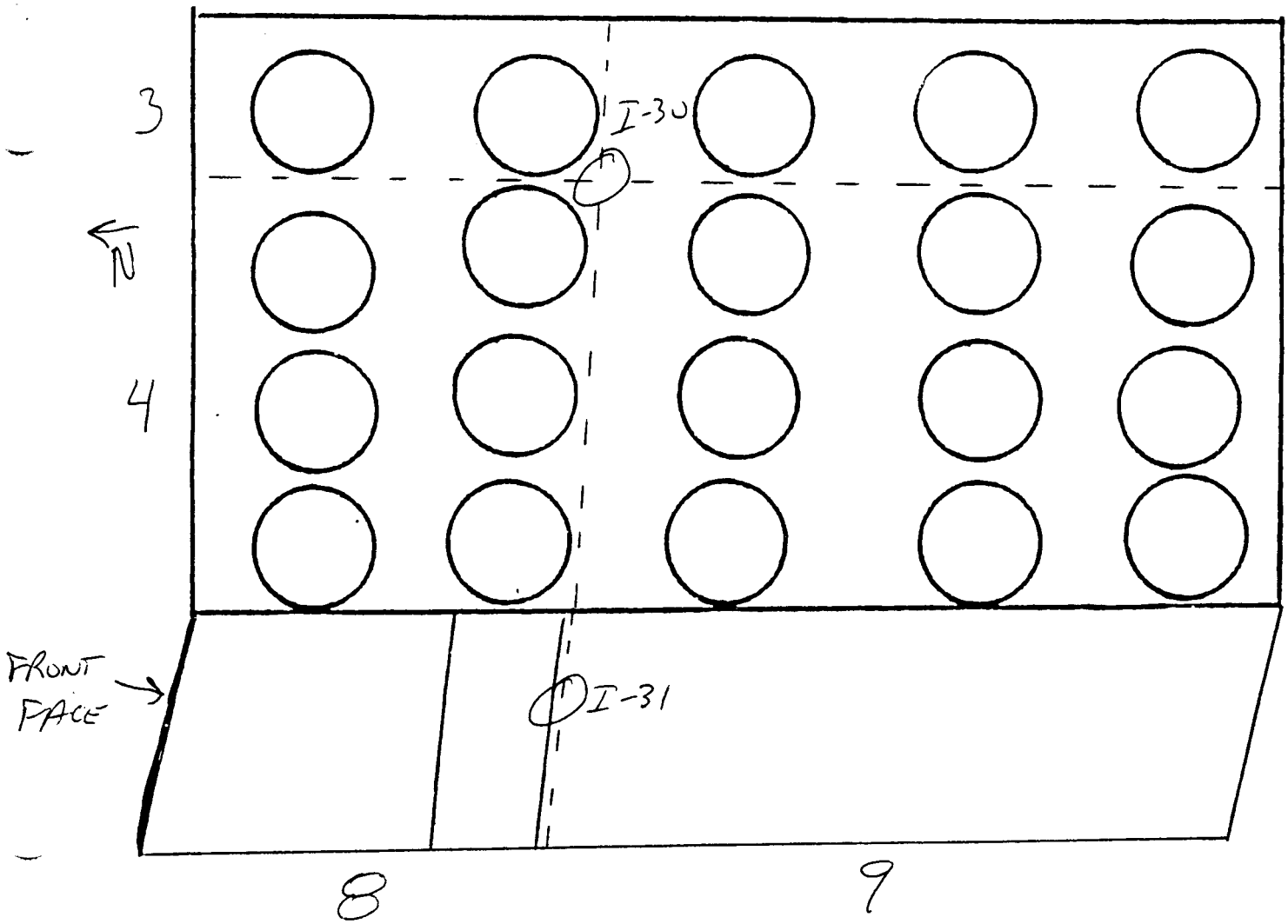
RADIOLOGICAL SURVEY REPORT

ATGS #: FMR-063

DATE: 7-30-96 TO 7-31-96	INSTRUMENTATION USED				
TIME: 0600 - 1500	MODEL	SERIAL #	EFF.%	BKGRD	CAL. DUE DATE
SURVEYOR: D. CORBETT					
LOCATION: BLDG 3192 FOYER I/S HOT CELL TUBE SHEET			NA		
REVIEWED BY: NSW					
Smear Locations Circled. Dose Rates = microR/hr (μR/hr)					

PURPOSE OF SURVEY: QA SURVEY POINT REFERENCE MAP

I/S HOT CELL TUBE SHEET/FLOOR



RADIOLOGICAL SURVEY REPORT

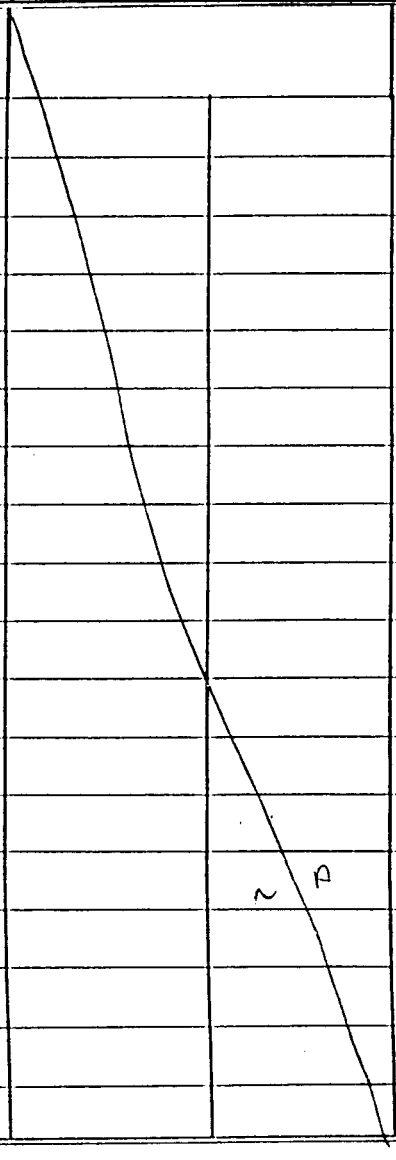
ATGS #: FMR-063

DATE: 7-30-96 TO 7-31-96	INSTRUMENTATION USED				
TIME: 0600 TO 1500	MODEL	SERIAL #	EFF.%	BKGRD	CAL. DUE DATE
SURVEYOR: O. CORBETT	18	118395 / 127608	20	220-300cpm	11-8-96
LOCATION: BLDG 3192 FOYER I/S HOT CELL QA	19	98112	—	5-7 uR/HR	12-7-96
REVIEWED BY: NSW	19	114316	—	5-7 uR/HR	11-9-96
Smear Locations Circled. Dose Rates = microR/hr (μR/hr)	18	118394 / 127608	20	300-400cpm	11-8-96

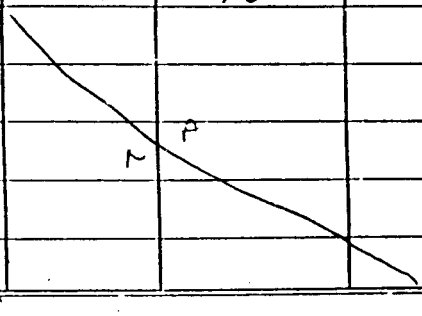
PURPOSE OF SURVEY: SURVEY FOR UNCONDITIONAL RELEASE AS PER CRITERIA ESTABLISHED IN NRC REGULATORY GUIDE 1.86

SMEAR RESULTS ATTACHED

SURVEY POINT #	uR/HR	CCPM
I-1	6	20
I-2	6	60
I-3	5	60
I-4	5	40
I-5	4	0
I-6	6	0
I-7	6	0
I-8	6	40
I-9	6	140
I-10	5	80
I-11	5	180
I-12	5	0
I-13	5	20
I-14	5	20
I-15	5	0
I-16	5	0
I-17	6	0
I-18	5	0



SURVEY POINT #	uR/HR	CCPM
I-19	5	0
I-20	5	0
I-21	7	100
I-22	8	40
I-23	8	80
I-24	9	400
I-25	8	100
I-26	8	140
I-27	6	120
I-28	7	100
I-29	9	200
I-30	10	300
I-31	10	0



SMEAR COUNTING ANALYSIS REPORT

DATE:	ATGS#:	ANALYSIS PERFORMED BY:
7-29-96	FMR-063	K Corbett

COUNTING SYSTEM DATA

INSTRUMENT I.D. 126128	DETECTOR I.D. 133007
EFFICIENCIES: α .278 βγ .244	MDA: α 5 βγ 142
PERFORMED BY: D. CORBETT	
SAMPLE COUNT TIME: 1 min	ACTIVITY REPORT IN: ☒ dpm ☐ μCi
α BACKGROUND: 0.1 cpm	βγ BACKGROUND: 55 cpm

SAMPLE I.D. OR DESCRIPTION		GROSS COUNTS α	GROSS COUNTS βγ	NET COUNTS α	NET COUNTS βγ	ACTIVITY α	ACTIVITY βγ
BLDG. 3192	I-1	0	64	-.1	9	<MDA	<MDA
I/S	I-2	0	61		6		
Hot Cell	I-3	0	63		8		
QA	I-4	0	44		-11		
	I-5	0	59		4		
	I-6	0	47		-8		
	I-7	0	41		-14		
	I-8	0	58		3		
	I-9	1	60	0.9	5		
	I-10	0	52	-.1	-3		
	I-11	1	53	0.9	-2		
	I-12	0	72	-.1	17		
	I-13	0	46		-9		
	I-14	0	56		1		
	BLANK	0	45		-10		
	I-15	0	50		-5		
	I-16	1	47	0.9	-8		
	I-17	0	44	-.1	-11		
	I-18	1	57	0.9	2		
	I-19	0	48	-.1	-7		

Remarks: QA Survey

Reviewed By: NSW

Date: 7-29-96

SMEAR COUNTING ANALYSIS REPORT

DATE:	ATGS#:	ANALYSIS PERFORMED BY:
7-29-96	FMR063	K Corbett

COUNTING SYSTEM DATA

INSTRUMENT I.D. 126128	DETECTOR I.D. 133007
EFFICIENCIES: α .278 βγ .244	MDA: α 5 βγ 142
PERFORMED BY: D. CORBETT	
SAMPLE COUNT TIME: 1 min	ACTIVITY REPORT IN: ☒ dpm ☐ μCi
α BACKGROUND: 0.1 cpm	βγ BACKGROUND: 55 cpm

SAMPLE I.D. OR DESCRIPTION		GROSS COUNTS α	GROSS COUNTS βγ	NET COUNTS α	NET COUNTS βγ	ACTIVITY α	ACTIVITY βγ
QA I/S	I-20	0	44	-.1	11	<MDA	<MDA
Hot Cell	I-21	0	51		-4		
	I-22	0	42		-13		
	I-23	0	47		-8		
	I-24	1	42	.9	-13		
	I-25	0	56	-.1	1		
	I-26	0	52		-3		
	I-27	0	44		-11		
	I-28	0	53		-2		
	I-29	0	45		-10		
	BLANK	0	44		-11		
			N	A			

Remarks:

Reviewed By: [signature]

Date: 7-29-96

SMEAR COUNTING ANALYSIS REPORT

DATE:	ATGS#:	ANALYSIS PERFORMED BY:
7-31-96	FMR063	K CorbeA

COUNTING SYSTEM DATA

INSTRUMENT I.D. 126128	DETECTOR I.D. 133007
EFFICIENCIES: α .266 βγ .243	MDA: α 6 βγ 140
PERFORMED BY: DAVE CORBETT	
SAMPLE COUNT TIME: 1 MIN	ACTIVITY REPORT IN: ☒ dpm ☐ μCi
α BACKGROUND: .1 cpm	βγ BACKGROUND: 54 cpm

SAMPLE I.D. OR DESCRIPTION	GROSS COUNTS α	GROSS COUNTS βγ	NET COUNTS α	NET COUNTS βγ	ACTIVITY α	ACTIVITY βγ
I 30	1	56	0.9	2	<MDA	<MDA
I 31	0	50	-.1	-4	<MDA	<MDA
BLANK	0	44	-.1	-10	<MDA	<MDA
		N	A			

Remarks: I/S HOT CELL FLOOR

Reviewed By: Neal Wentz Date: 7-31-96

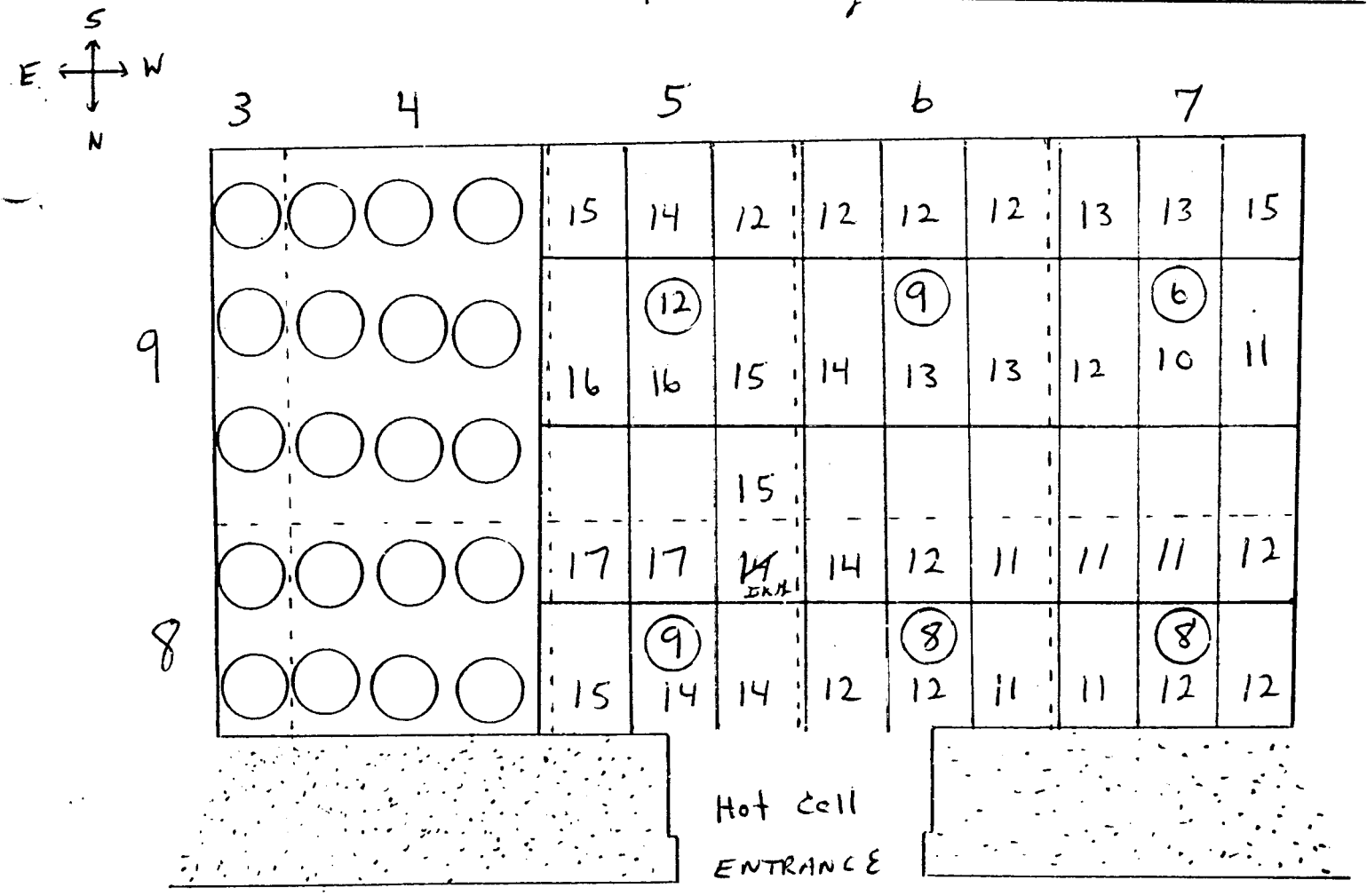
RADIOLOGICAL SURVEY REPORT

ATGS #: FMR-086

DATE: 7-31-96	INSTRUMENTATION USED				
TIME: 1600	MODEL	SERIAL #	EFF.%	BKGRD	CAL. DUE DATE
SURVEYOR: D. Goldston / C. Humphres	19	98112	NA	6	12-7-96
LOCATION: BLDG 3192 Hot Cell Dirt Floor Survey					
REVIEWED BY: NSW					
Smear Locations Circled. Dose Rates = microR/hr (μR/hr)					

PURPOSE OF SURVEY: Unconditional Release of BLDG 3192 in accordance with the standards of NRC Regulatory Guide 1.86

* Circled numbers are Micro R/Hr readings at waist level *



RADIOLOGICAL SURVEY REPORT

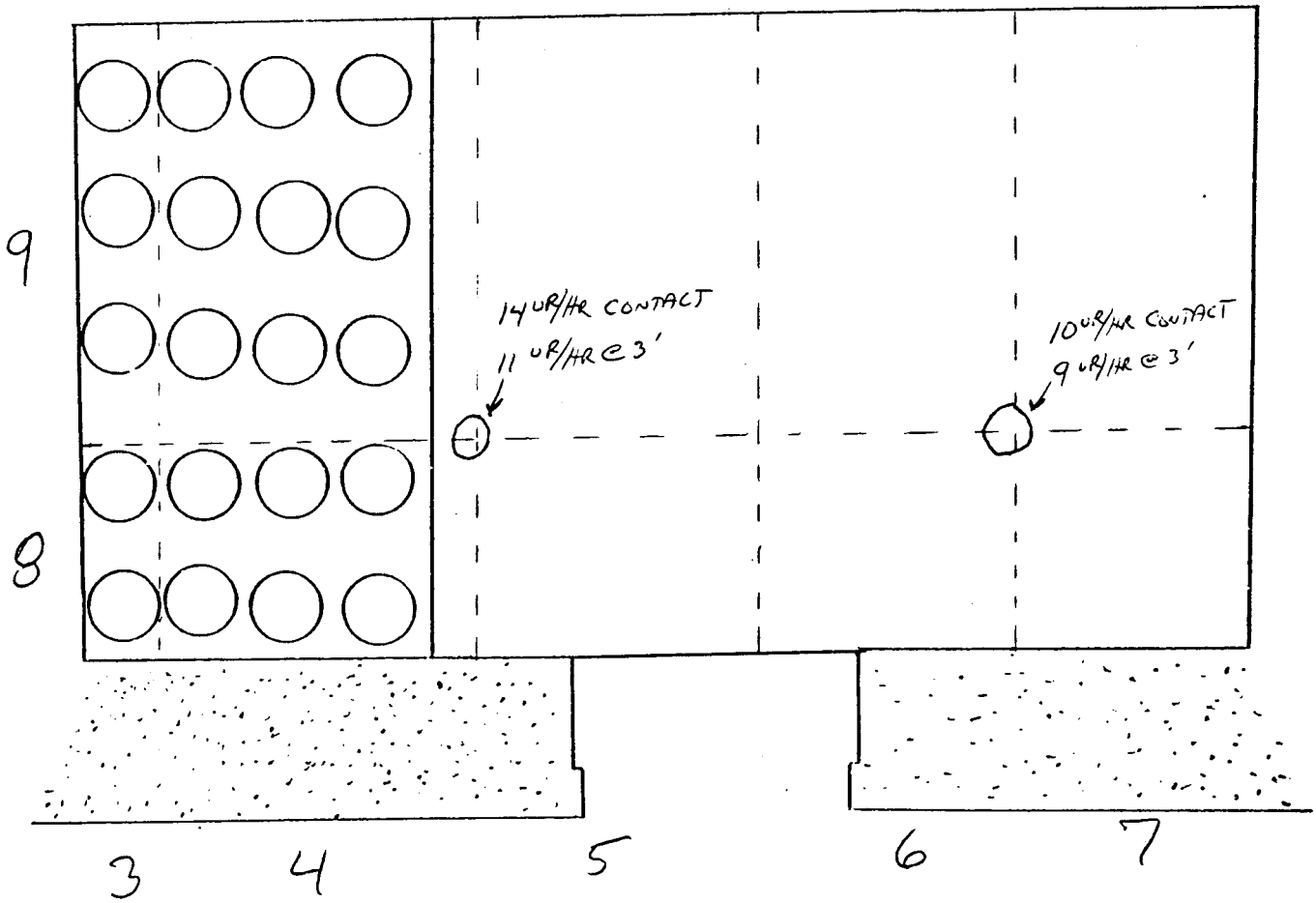
ATGS #: FMR-087

DATE: 7-31-96	INSTRUMENTATION USED				
TIME: 1530	MODEL	SERIAL #	EFF.%	BKGRD	CAL. DUE DATE
SURVEYOR: D. CORBETT	19	98112	–	11 UR/HR	12-7-
LOCATION: BLDG 3192 FOYER QA DIRT SURVEY I/S HOT CELL					
REVIEWED BY: NSW					
Smear Locations Circled. Dose Rates = microR/hr (μR/hr)					

PURPOSE OF SURVEY: QA DIRT SURVEY FOR I/S OF HOT CELL

TUBE SHEET NOT INCLUDED

I/S HOT CELL FLOOR



HOT CELL

ENTRY WAY

RADIOLOGICAL SURVEY REPORT

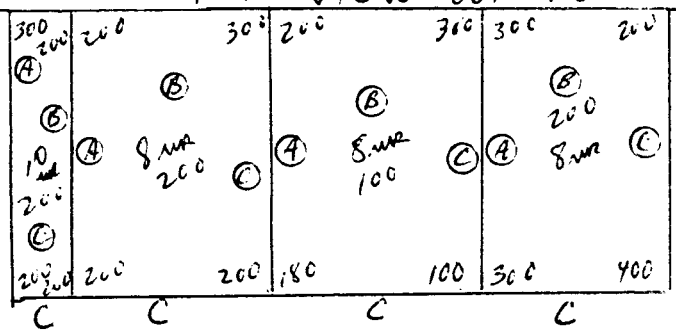
ATGS #: FMR- 067

DATE: 7-29-96	INSTRUMENTATION USED				
	MODEL	SERIAL #	EFF.%	BKGRD	CAL. DUE DATE
TIME: 0860					
SURVEYOR: E HUMPHRES	19	131291	N/A	5-8	9-25-96
LOCATION: BLDG #3192 HOT CELL ENTRANCE	18	120052	-20	300500	1-7-~~96~~ 97
REVIEWED BY: Neal White		N/A			
Smear Locations Circled. Dose Rates = microR/hr (μR/hr)					

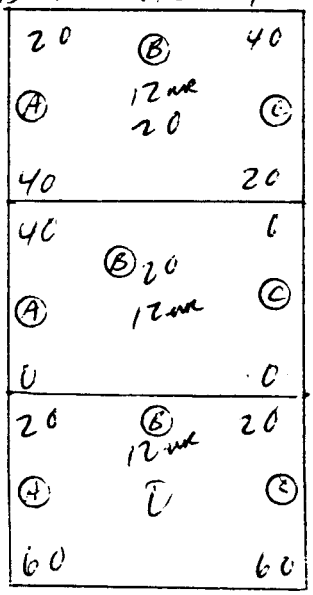
PURPOSE OF SURVEY: UNCONDITIONAL RELEASE OF HOT CELL ENTRANCE PER THE RELEASE CRITERIA ESTABLISHED IN NRC REGULATORY GUIDE 1.86

NOTE: ALL SMEARS TAKEN = 100 cm^2, ALL DIRECT READINGS = 100 cm^2/PROBE AREA

TOP VIEW OUTSIDE



(WEST) SIDE VIEW O/S



SMEAR COUNTING ANALYSIS REPORT

DATE:	ATGS#:	ANALYSIS PERFORMED BY:
7-30-96	FMR-067	R. TRAVEAS

COUNTING SYSTEM DATA

INSTRUMENT I.D. 126128	DETECTOR I.D. 133007
EFFICIENCIES: α .263 % βγ .241 %	MDA: α 8 Dpm βγ 139 Dpm
PERFORMED BY: E Humphries	
SAMPLE COUNT TIME: 1 MIN	ACTIVITY REPORT IN: ☒ dpm ☐ μCi
α BACKGROUND: 0.2 cpm	βγ BACKGROUND: 52 cpm

SAMPLE I.D. OR DESCRIPTION	GROSS COUNTS α	GROSS COUNTS βγ	NET COUNTS α	NET COUNTS βγ	ACTIVITY α	ACTIVITY βγ
A-A HOT CELL	~~0~~	45	-.2	-7	<MDA	<MDA
A-B ENTRANCE SIDE	~~0~~	54	-.2	2		
A-C	~~0~~	48	-.2	-4		
B-A	~~0~~	46	-.2	-6		
B-B	~~0~~	41	-.2	-11		
B-C	~~0~~	41	-.2	-11		
C-A	~~0~~	53	-.2	1		
C-B	~~0~~	49	-.2	-3		
C-C	1	56	.8	4		
BLANK	~~0~~	49	-.2	-3	<MDA	<MDA

Remarks:

Reviewed By: NSW

Date: 7-30-96

SMEAR COUNTING ANALYSIS REPORT

DATE:	ATGS#:	ANALYSIS PERFORMED BY:
7-30-96	FMR-067	R. TRUJILLO

COUNTING SYSTEM DATA

INSTRUMENT I.D. 126 128	DETECTOR I.D. 133007
EFFICIENCIES: α 26.3% βγ 24.1%	MDA: α 8 Dpm βγ 139 Dpm
PERFORMED BY: E ~~Hapk~~ Humphries	
SAMPLE COUNT TIME: 1 MIN	ACTIVITY REPORT IN: ☒ dpm ☐ μCi
α BACKGROUND: 0.2 cpm	βγ BACKGROUND: 52 cpm

SAMPLE I.D. OR DESCRIPTION	GROSS COUNTS α	GROSS COUNTS βγ	NET COUNTS α	NET COUNTS βγ	ACTIVITY α	ACTIVITY βγ
7-A HOT CELL	~~0~~	40	-.2	-12	<MDA	<MDA
7-B ENTRANCE TOP	~~0~~	45	-.2	-7		
7-C	~~0~~	55	-.2	3		
6-A	~~0~~	63	-.2	11		
6-B	~~0~~	47	-.2	55		
6-C	~~0~~	46	.2	-6		
5-A	~~0~~	49	-.2	-3		
5-B	~~0~~	59	-.2	7		
5-C	~~0~~	45	-.2	-7		
4-A	~~0~~	57	-.2	5		
4-B	~~0~~	49	-.2	-3		
4-C	~~0~~	46	-.2	-6		
BLANK	~~0~~	51	-.2	-1	<MDA	<MDA

Remarks:

Reviewed By: NSW

Date: 7-30-96

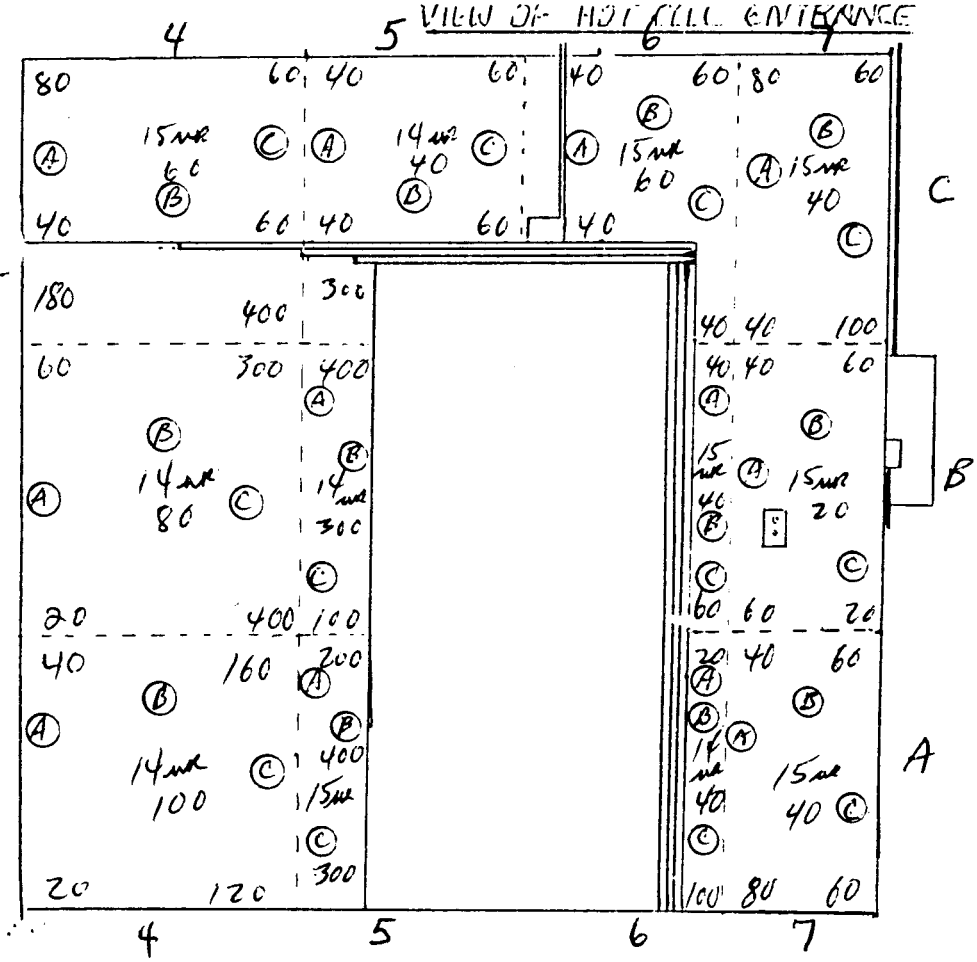
RADIOLOGICAL SURVEY REPORT

ATGS #: FMR-067

DATE: 7-29-96	INSTRUMENTATION USED				
TIME: 1425	MODEL	SERIAL #	EFF.%	BKGRD	CAL. DUE DATE
SURVEYOR: E HUMPHRES/C. HUMPHRES	19	98102	N/A	10-15	9-25-96
LOCATION: BLDG #3142 HOTCELL ENTRANCE	18	118295	.20	300-500	1-8-96
REVIEWED BY: NSW			N/A		
Smear Locations Circled. Dose Rates = microR/hr (μR/hr)					

PURPOSE OF SURVEY: UNCONDITIONAL RELEASE OF HOTCELL ENTRANCE FOR THE RELEASE CRITERIA ESTABLISHED IN NRC REGULATORY GUIDE 1.86

NOTE - ALL SMEARS TAKEN = 100cm², ALL DIRECT READINGS = 100cm²/PROBE AREA.



SMEAR COUNTING ANALYSIS REPORT

DATE:	ATGS#:	ANALYSIS PERFORMED BY:
7-30-96	FMR-067	R. Travis

COUNTING SYSTEM DATA

INSTRUMENT I.D. 126128	DETECTOR I.D. 133007
EFFICIENCIES: α .263% βγ .241%	MDA: α 8 Dpm βγ 139 Dpm
PERFORMED BY: E Humphries	
SAMPLE COUNT TIME: 1 MIN	ACTIVITY REPORT IN: ☒ dpm ☐ μCi
α BACKGROUND: 0.2 cpm	βγ BACKGROUND: 52 cpm

SAMPLE I.D. OR DESCRIPTION	GROSS COUNTS α	GROSS COUNTS βγ	NET COUNTS α	NET COUNTS βγ	ACTIVITY α	ACTIVITY βγ
A-4-A HOT CELL	0	58	-.2	6	<MDA	<MDA
A-4-B ENTRANCE	0	50	-.2	-2		
A-4-C	0	46	-.2	-6		
B-4-A	0	68	-.2 ~~16~~ (arc)	16		
B-4-B	0	51	-.2	-1		
B-4-C	0	52	-.2	0		
C-4-A	0	51	-.2	-1		
C-4-B	0	52	-.2	0		
C-4-C	0	61	-.2	9		
A-5-A	0	64	-.2	12		
A-5-B	0	57	-.2	5		
A-5-C	0	56	-.2	4		
B-5-A	0	47	-.2	-5		
B-5-B	0	51	-.2	-1		
B-5-C	0	57	-.2	5		
B-5-A	0	55	-.2	3		
A-6-A	0	56	-.2	4		
A-6-B	0	52	-.2	0		
A-6-C	0	41	-.2	-11		
B-6-A	1	53	.8	1	<MDA	<MDA

Remarks:

Reviewed By: NSW

Date: 7-30-96

SMEAR COUNTING ANALYSIS REPORT

DATE:	ATGS#:	ANALYSIS PERFORMED BY:
7-30-96	FMR-067	12. Teangas

COUNTING SYSTEM DATA

INSTRUMENT I.D. 126128	DETECTOR I.D. 133007
EFFICIENCIES: α .263% βγ .241 %	MDA: α 8 Dpm βγ 139 Dpm
PERFORMED BY: E Humphries	
SAMPLE COUNT TIME: 1 MIN	ACTIVITY REPORT IN: ~~☒~~ dpm ☐ μCi
α BACKGROUND: 0.2 cpm	βγ BACKGROUND: 52 cpm

SAMPLE I.D. OR DESCRIPTION	GROSS COUNTS α	GROSS COUNTS βγ	NET COUNTS α	NET COUNTS βγ	ACTIVITY α	ACTIVITY βγ
B-6-B HOT CELL	1	57	.8	5	<MDA	<MDA
B-6-C ENTRANCE	~~0~~	49	-.2	-3		
C-6-A	~~0~~	54	-.2	2		
C-6-B	~~0~~	54	-.2	2		
C-6-C	~~0~~	51	-.2	-1		
A-7-A	~~0~~	65	-.2	13		
A-7-B	~~0~~	47	-.2	-.5		
A-7-6	~~0~~	57	-.2	5		
B-7-A	~~0~~	42	-.2	-10		
B-7-B	~~0~~	58	-.2	6		
B-7-C	~~0~~	45	-.2	-7		
C-7-A	~~0~~	51	-.2	-1		
C-7-B	~~0~~	55	-.2	3		
C-7-C	~~0~~	49	-.2	3		
BLANK	~~0~~	51	-.2	-1	<MDA	<MDA

Remarks:

Reviewed By: NSW

Date: 7-30-96

RADIOLOGICAL SURVEY REPORT

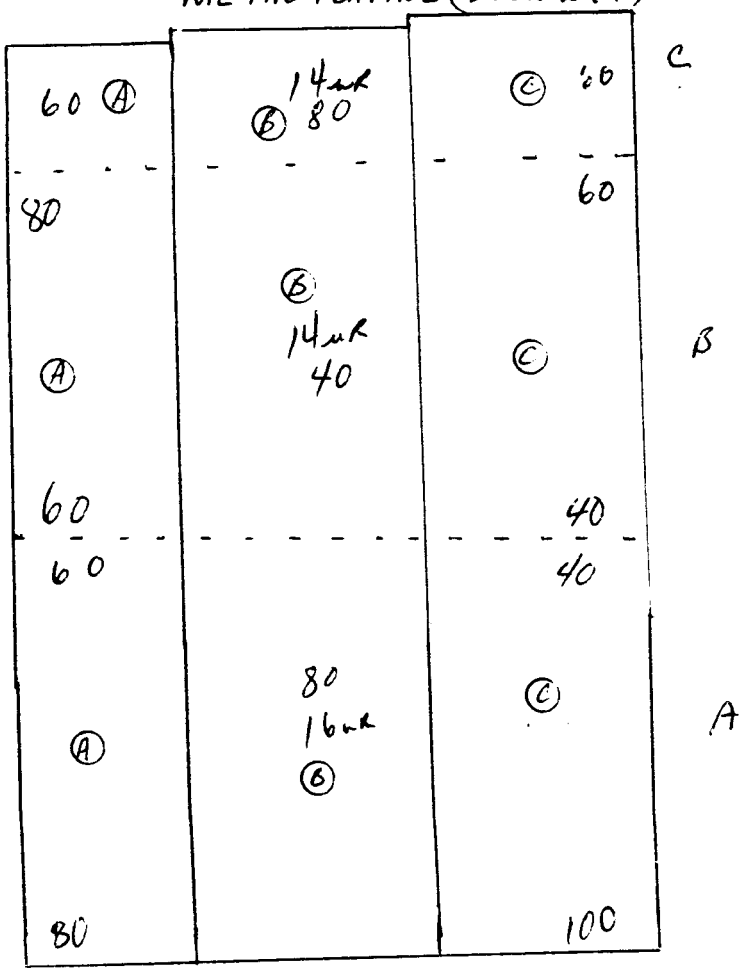
ATGS #: FMR-067

DATE: 7-22-96	INSTRUMENTATION USED:				
TIME: 1425	MODEL	SERIAL #	EFF.%	BKGRD	CAL. DUE DATE
SURVEYOR: E HUMPHRES	19	98102	N/A	10-15	9-25-96
LOCATION: BLDG #3152 HOTCELL ENTRANCE	18	118295	.20	300-500	11-8-96
REVIEWED BY: NSV		N			
Smear Locations Circled. Dose Rates = microR/hr (μR/hr)			A		

PURPOSE OF SURVEY: UNCONDITIONAL RELEASE OF HOTCELL ENTRANCE PER THE RELEASE CRITERIA ESTABLISHED IN NRC REGULATORY GUIDE 1.86.

NOTE: ALL SMEARS TAKEN = 100 cm^2 ALL DIRECT READINGS = 100 cm^2/PROBE AREA.

SIDE VIEW HOTCELL ENTRANCE
METAL PLATING (DOOR WAY)



RADIOLOGICAL SURVEY REPORT

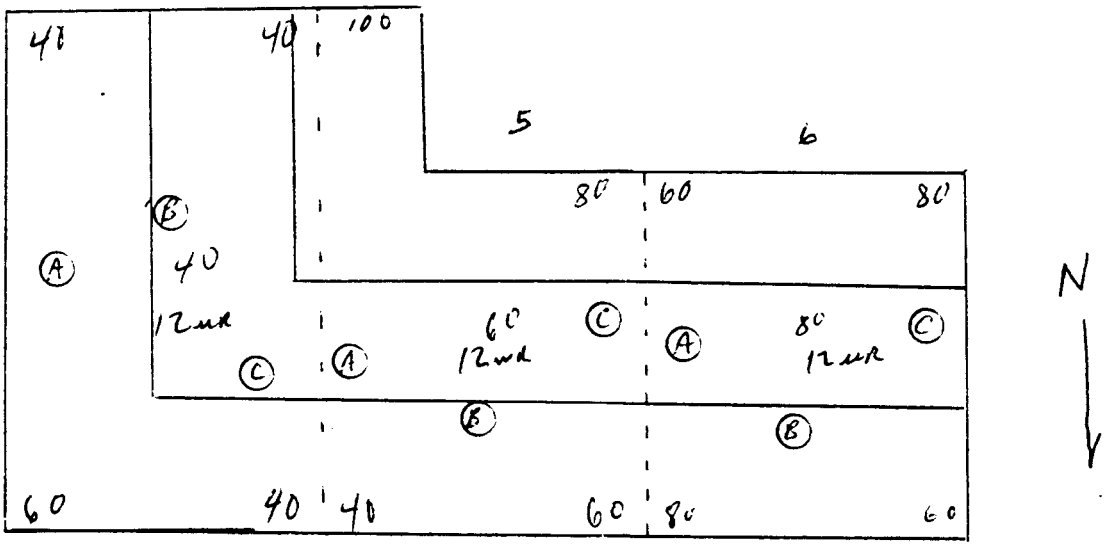
ATGS #: FMR-067

DATE: 7-29-96	INSTRUMENTATION USED				
	MODEL	SERIAL #	EFF.%	BKGRD	CAL. DUE DATE
TIME: 1430	19	98102	N/A	10-15	9-25-96
SURVEYOR: E HUMPHRIES	18	118295	.20	300-500	11-8-96
LOCATION: BLDG # 3152 HOTCELL ENTRANCE					
REVIEWED BY: NGW			A		
Smear Locations Circled. Dose Rates = microR/hr (μR/hr)					

PURPOSE OF SURVEY: UNCONDITIONAL RELEASE OF HOTCELL ENTRANCE PER THE RELEASE CRITERIA ESTABLISHED IN NRC REGULATORY GUIDE 1.86

NOTE: ALL SMEARS TAKEN = 100 cm², ALL DIRECT READINGS = 100 cm²/PROBE AREA

TOP METAL PLATING (DOOR WAY)



SMEAR COUNTING ANALYSIS REPORT

FMR-067 GSC 11/13/96

DATE:	ATGS#:	ANALYSIS PERFORMED BY:
7-30-96	~~FM-107~~	R. TRAVEAS

COUNTING SYSTEM DATA

INSTRUMENT I.D. 126128	DETECTOR I.D. 133007
EFFICIENCIES: α .263 % βγ .241 %	MDA: α 8 Dpm βγ 139 Dpm
PERFORMED BY: E Humphreys	
SAMPLE COUNT TIME: 1 MIN	ACTIVITY REPORT IN: ☒ dpm ☐ μCi
α BACKGROUND: 0.2 cpm	βγ BACKGROUND: 52 cpm

SAMPLE I.D. OR DESCRIPTION	GROSS COUNTS α	GROSS COUNTS βγ	NET COUNTS α	NET COUNTS βγ	ACTIVITY α	ACTIVITY βγ
4-C-A Bldg 392	~~0~~	51	-.2	-1	<MDA	<MDA
4-C-B HOT Cell	~~0~~	48	-.2	-4		
4-C-C I/S METAL	~~0~~	50	-.2	-2		
5-C-A	~~0~~	48	-.2	-4		
5-C-B	~~0~~	53	-.2	1		
5-C-C	~~0~~	43	-.2	-9		
6-A-A	~~0~~	48	-.2	-4		
6-A-B	~~0~~	46	-.2	-6		
6-A-C	~~0~~	56	-.2	4		
6-B-A	~~0~~	46	-.2	-6		
6-B-B	~~0~~	56	-.2	4		
6-B-C	~~0~~	48	-.2	-4		
6-C-A	~~0~~	51	-.2	-1		
6-C-B	~~0~~	47	-.2	-5		
6-C-C	~~0~~	44	-.2	-8		
BLANK	~~0~~	56	-.2	4	<MDA	<MDA

Remarks:

Reviewed By: NGW

Date: 7-30-96

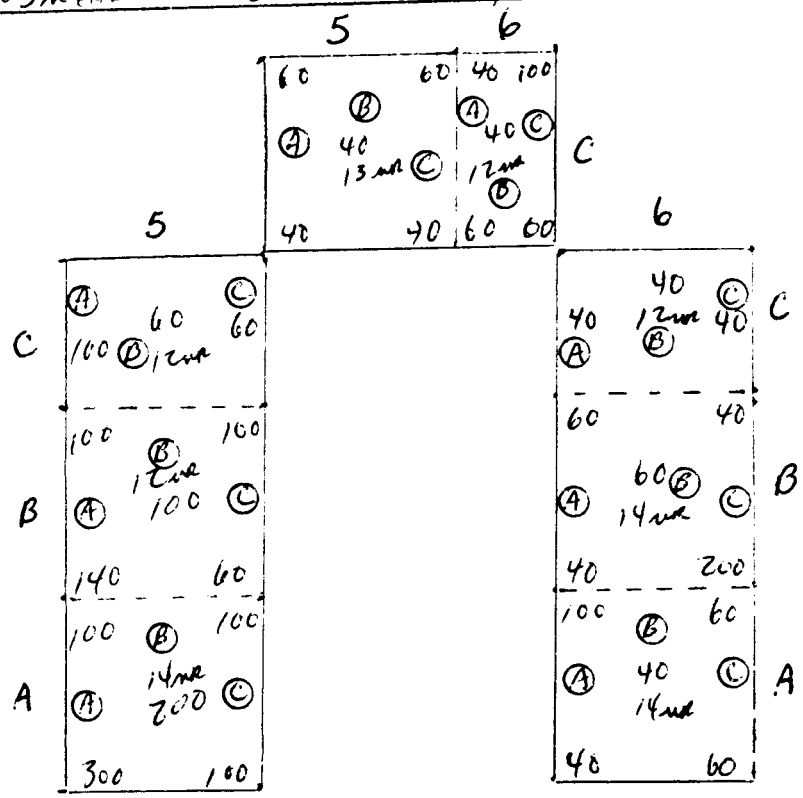
RADIOLOGICAL SURVEY REPORT

ATOS #: FMR-067

DATE: 7-25-96	INSTRUMENTATION USED				
TIME: 1425	MODEL	SERIAL #	EFF.%	BKGRD	CAL. DUE DATE
SURVEYOR: E. Humphries	19	98102	N/A	10-15	7-25-96
LOCATION: 3LD63192 HOTCELL ENTRANCE	18	118295	.20	300-500	11-8-96
REVIEWED BY: NSW			N/A		
Smear Locations Circled. Dose Rates = microR/hr (μR/hr)					

PURPOSE OF SURVEY: UNCONDITIONAL RELEASE OF HOTCELL ENTRANCE FOR THE RELEASE CRITERIA ESTABLISHED IN NRC REGULATORY GUIDE 1.86

NOTE: ALL SMEARS TAKEN = 100 cm², ALL DIRECT READINGS = 100 cm²/PROBE AREA



VIEW OF INSIDE SURFACES OF ENTRANCE TO HOT CELL

SMEAR COUNTING ANALYSIS REPORT

DATE:	ATGS#:	ANALYSIS PERFORMED BY:
7-30-96	FMP-067	R. TRAVERAS

COUNTING SYSTEM DATA

INSTRUMENT I.D. 126128	DETECTOR I.D. 133007
EFFICIENCIES: α .263 % βγ .241 %	MDA: α 8 Dpm βγ 139 Dpm
PERFORMED BY: E Humphries	
SAMPLE COUNT TIME: 1 MIN	ACTIVITY REPORT IN: ☒ dpm ☐ µCi
α BACKGROUND: 0.2 cpm	βγ BACKGROUND: 52 cpm

SAMPLE I.D. OR DESCRIPTION	GROSS COUNTS α	GROSS COUNTS βγ	NET COUNTS α	NET COUNTS βγ	ACTIVITY α	ACTIVITY βγ
6-A-A Bldg 3192	~~0~~	46	-.2	-6	<MDA	<MDA
6-A-B Hot Cell ENT	~~0~~	49	-.2	-3		
6-A C 1/5 Concrete	~~0~~	52	-.2	~~0~~		
6-B-A	~~0~~	46	-.2	-6		
6-B-B	~~0~~	52	-.2	0		
6-B-C	1	48	.8	-4		
6-C-A	~~0~~	44	-.2	-12		
6-C-B	~~0~~	53	-.2	1		
6-C-C	~~0~~	55	-.2	3		
5-C-A	~~0~~	44	-.2	-8		
5-C-B	~~0~~	49	-.2	-3		
5-C-C	~~0~~	38	-.2	-14		
5-B-A	1	47	.8	-5		
5-B-B	~~0~~	43	-.2	-9		
5-B C	~~0~~	64	-.2	12		
5-A-A	~~0~~	59	-.2	7		
5-A-B	~~0~~	47	-2	-5		
5-A-C	~~0~~	56	-.2	4		
BLANK	~~0~~	53	-.2	1	<MDA	<MDA

Remarks:

Reviewed By: NSW

Date: 7-30-96

RADIOLOGICAL SURVEY REPORT

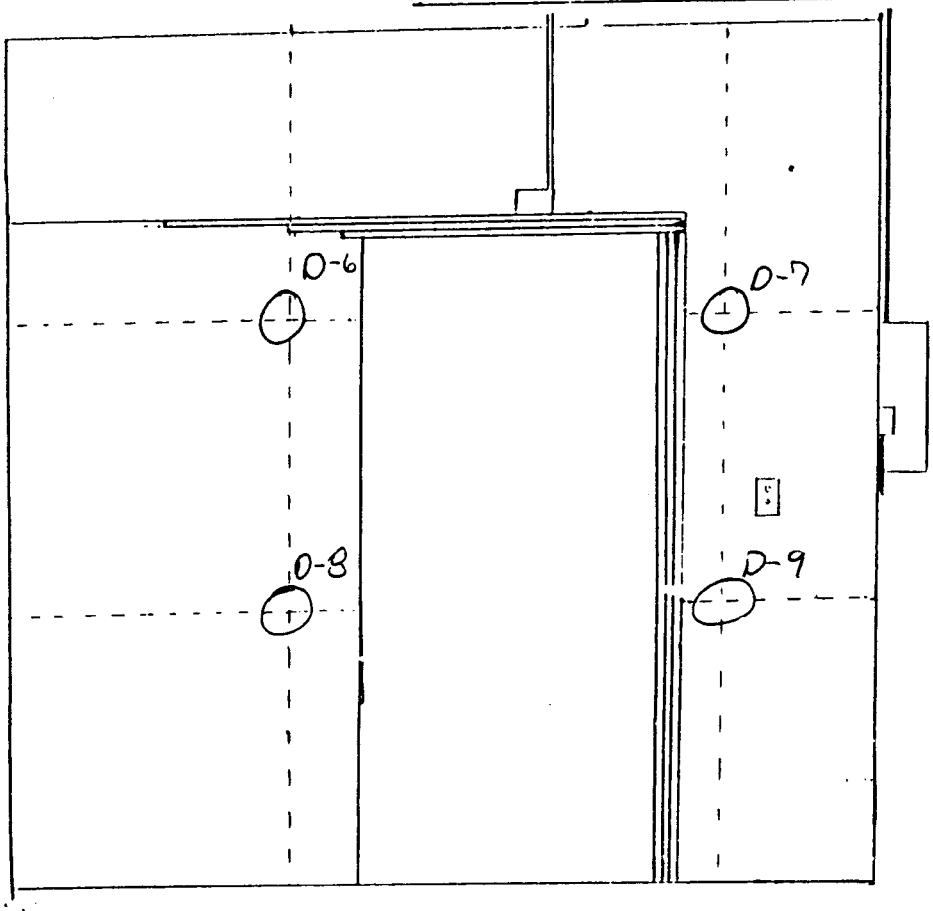
ATGS #: FMR-074

	INSTRUMENTATION USED				
DATE: 7-30-96	MODEL	SERIAL #	EFF.%	BKGRD	CAL. DUE DATE
TIME: 0600 TO 1500					
SURVEYOR: O. CORBETT					
LOCATION: BLDG 3192 FOYER QA HOT CELL ENTRANCE				IA N	
REVIEWED BY: NGW					
Smear Locations Circled. Dose Rates = microR/hr (μR/hr)					

PURPOSE OF SURVEY: QA SURVEY POINT REFERENCE MAP

VIEW OF HOT CELL ENTRANCE

WEST →



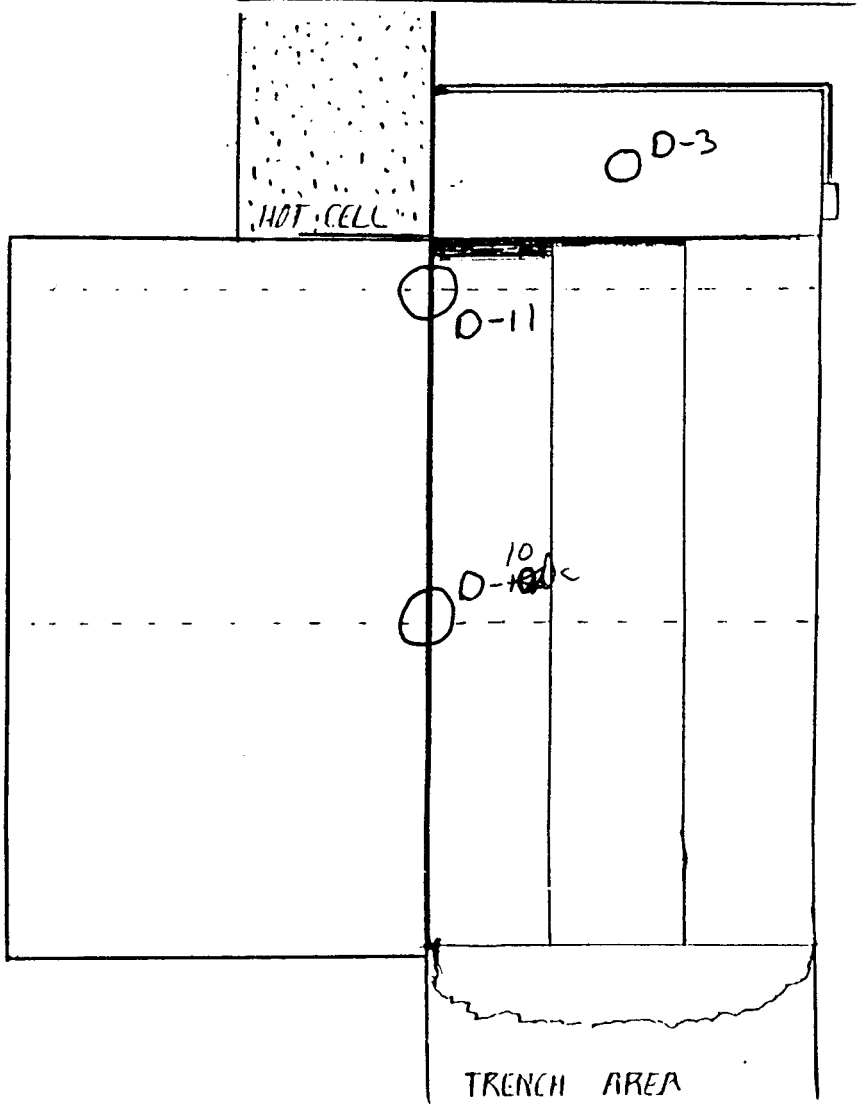
RADIOLOGICAL SURVEY REPORT

ATGS #: FMR-074

DATE: 7-30-96	INSTRUMENTATION USED				
TIME: 0600 TO 1500	MODEL	SERIAL #	EFF.%	BKGRD	CAL. DUE DATE
SURVEYOR: D. CORBETT					
LOCATION: BLDG 3192 FOYER QA HOT CELL ENTRANCE					
REVIEWED BY: NSW					
Smear Locations Circled. Dose Rates = microR/hr (μR/hr)					

PURPOSE OF SURVEY: QA SURVEY POINT REFERENCE MAP

WEST VIEW OF HOT CELL ENTRANCE



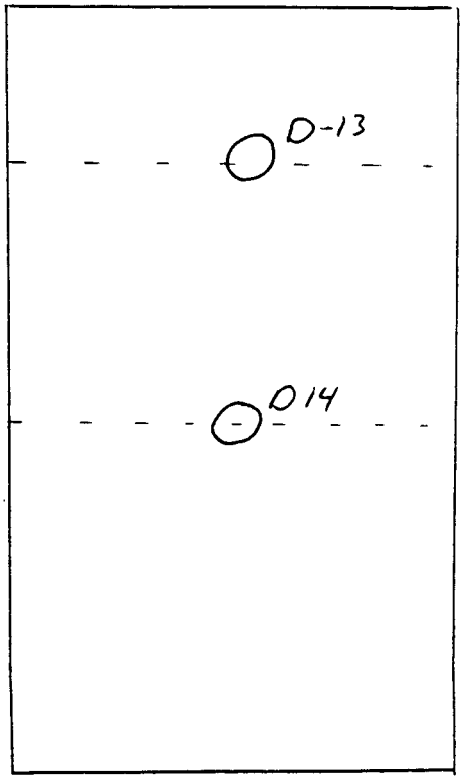
RADIOLOGICAL SURVEY REPORT

ATGS #: FMR-074

DATE: 7-30-96	INSTRUMENTATION USED				
TIME: 0600 TO 1500	MODEL	SERIAL #	EFF.%	BKGRD	CAL. DUE DATE
SURVEYOR: D. CORBETT					
LOCATION: BLDG 3192 FOYER QA HOT CELL ENTRANCE				A	
REVIEWED BY: NSW				N	
Smear Locations Circled. Dose Rates = microR/hr (μR/hr)					

PURPOSE OF SURVEY: QA SURVEY POINT REFERENCE MAP

EAST VIEW OF HOT CELL ENTRANCE



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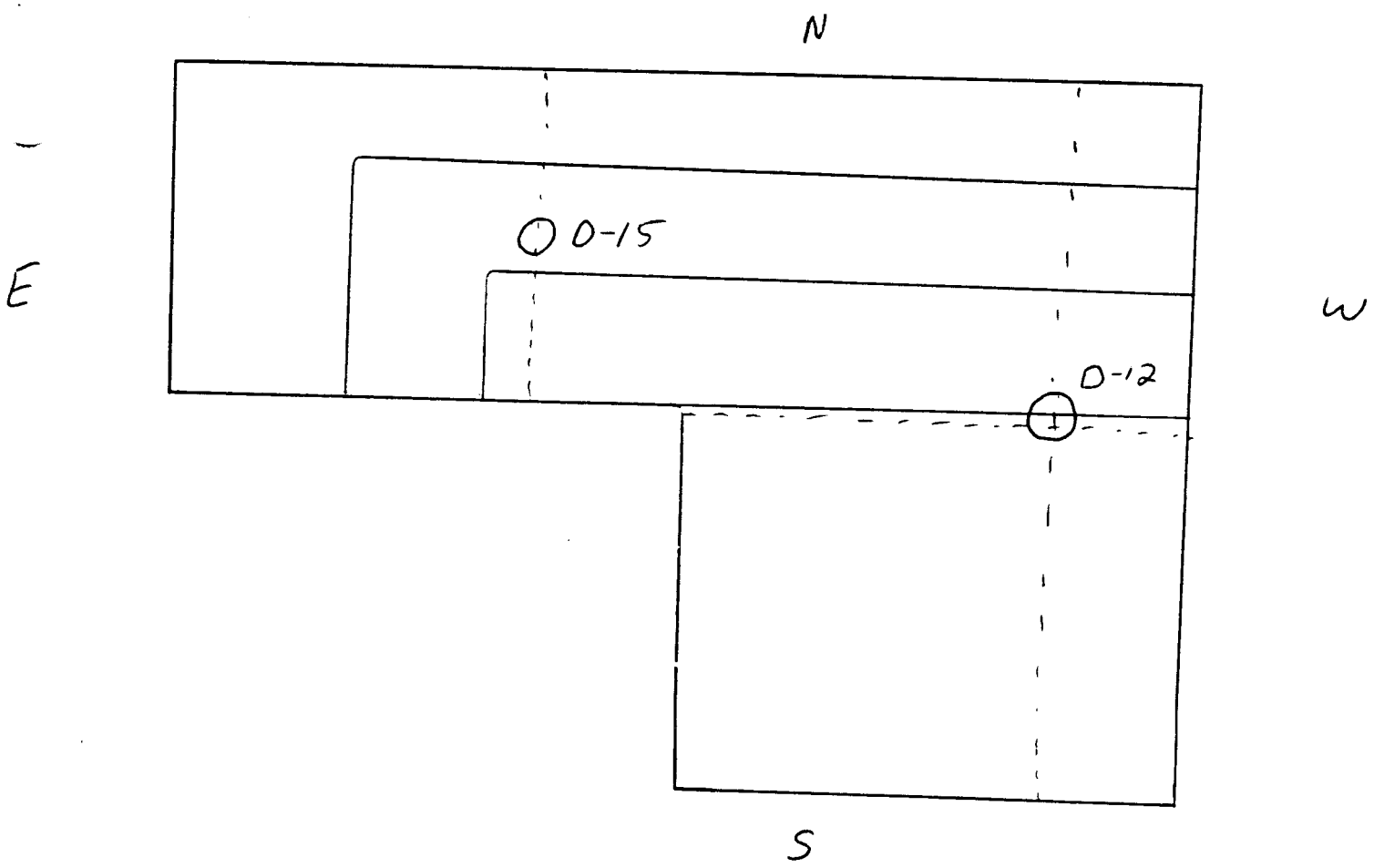
RADIOLOGICAL SURVEY REPORT

ATGS #: FMR-074

DATE: 7-30-96	INSTRUMENTATION USED				
TIME: 0600 TO 1500	MODEL	SERIAL #	EFF.%	BKGRD	CAL. DUE DATE
SURVEYOR: D. CORBETT					
LOCATION: BLDG 3192 FOYER QA HOT CELL ENTRANCE				12 ~	
REVIEWED BY: NGW					
Smear Locations Circled. Dose Rates = microR/hr (μR/hr)					

PURPOSE OF SURVEY: QA SURVEY POINT REFERENCE MAP

HOT CELL ENTRANCE CEILING LOOKING UP

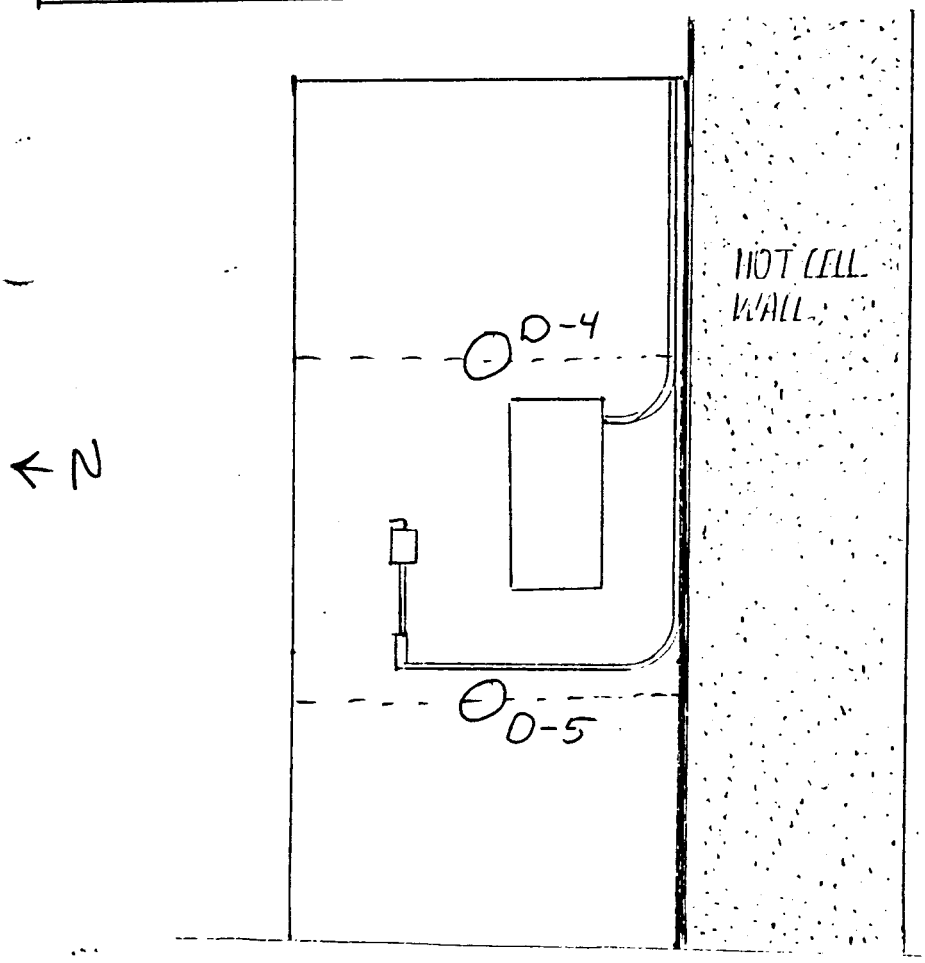


RADIOLOGICAL SURVEY REPORT

ATGS #: EMR-074

DATE: 7-30-96	INSTRUMENTATION USED				
TIME: 0600 TO 1500	MODEL	SERIAL #	EFF.%	BKGRD	CAL. DUE DATE
SURVEYOR: D. CORBETT					
LOCATION: BLDG 3192 FOYER QA HOT CELL ENTRY				NA	
REVIEWED BY: NGW					
Smear Locations Circled. Dose Rates = microR/hr (μR/hr)					

PURPOSE OF SURVEY: QA SURVEY POINT REFERENCE MAP



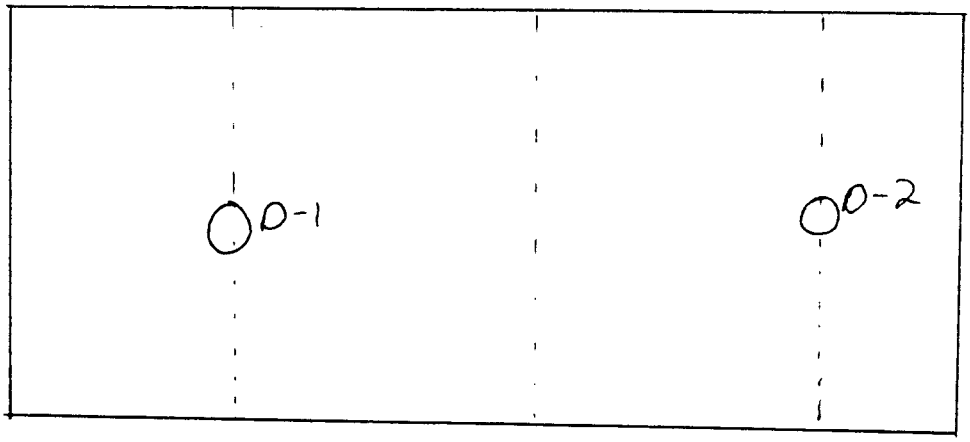
RADIOLOGICAL SURVEY REPORT

ATGS #: FMR-074

DATE: 7-30-96	INSTRUMENTATION USED				
TIME: 0600 TO 1500	MODEL	SERIAL #	EFF.%	BKGRD	CAL. DUE DATE
SURVEYOR: O. CORBETT					
LOCATION: BLDG 3192 FOYER QA HOT CELL ENTRANCE			N/A		
REVIEWED BY: NSN					
Smear Locations Circled. Dose Rates = microR/hr (μR/hr)					

PURPOSE OF SURVEY: QA SURVEY POINT REFERENCE MAP

HOT CELL ENTRY ROOF



N

RADIOLOGICAL SURVEY REPORT

ATGS #: FMR-074

DATE: 7-30-96	INSTRUMENTATION USED				
TIME: 0600 TO 1500	MODEL	SERIAL #	EFF.%	BKGRD	CAL. DUE DATE
SURVEYOR: O. CORBETT	18	118295 / 127608	20	300-360 cpm	11-8-96
LOCATION: BLDG 3192 FOYER QA HOT CELL ENTRANCE	19	131294	—	12 uR/HR	12-27-96
REVIEWED BY:					
Smear Locations Circled. Dose Rates = microR/hr (μR/hr)					

PURPOSE OF SURVEY: SURVEY FOR UNCONDITIONAL RELEASE AS PER CRITERIA ESTABLISHED IN NRC REGULATORY GUIDE 1.86

SMEAR RESULTS ATTACHED

SURVEY POINT #	uR/HR	CCPM	SURVEY POINT #	uR/HR	CCPM
O-1	9	300			
O-2	9	400			
O-3	10	300			
O-4	9	0			
O-5	8	0			
O-6	7	140			
O-7	9	20			
O-8	8	100			
O-9	10	20			
O-10	9	200			
O-11	7	40			
O-12	7	20			
O-13	7	0			
O-14	6	20			
O-15	8	40			

SMEAR COUNTING ANALYSIS REPORT

DATE:	ATGS#:	ANALYSIS PERFORMED BY:
7-30-96	FNR-074	R. TRAVIS

COUNTING SYSTEM DATA

INSTRUMENT I.D. 126 128	DETECTOR I.D. 133007
EFFICIENCIES: α .263% βγ .241%	MDA: α 8 Dpm βγ 139 Dpm
PERFORMED BY: D CORBETT	
SAMPLE COUNT TIME: 1 MIN	ACTIVITY REPORT IN: ☒ dpm ☐ μCi
α BACKGROUND: 0.2 cpm	βγ BACKGROUND: 52 cpm

SAMPLE I.D. OR DESCRIPTION	GROSS COUNTS α	GROSS COUNTS βγ	NET COUNTS α	NET COUNTS βγ	ACTIVITY α	ACTIVITY βγ
1 HOT CELL	~~0~~	57	-.2	5	<MDA	<MDA
2 ENTRANCE QA	~~0~~	46	-.2	-6		
3 BLDG 3192	~~0~~	50	-.2	-2		
4	~~0~~	66	-.2	14		
5	~~0~~	38	-.2	-14		
6	~~0~~	52	-.2	~~0~~		
7	~~0~~	63	-.2	11		
8	~~0~~	47	-.2	-5		
9	~~0~~	45	-.2	-7		
10	~~0~~	54	-.2	2		
11	~~0~~	44	-.2	-8		
12	~~0~~	48	-.2	-4		
13	1	44	.8	-8		
14	1	54	.8	2		
15	~~0~~	49	-.2	-3		
BLANK	~~0~~	56	-.2	4	<MDA	<MDA

Remarks:

Reviewed By: NSW

Date: 7-30-96

HOT CELL

EXTERIOR

RADIOLOGICAL SURVEY REPORT

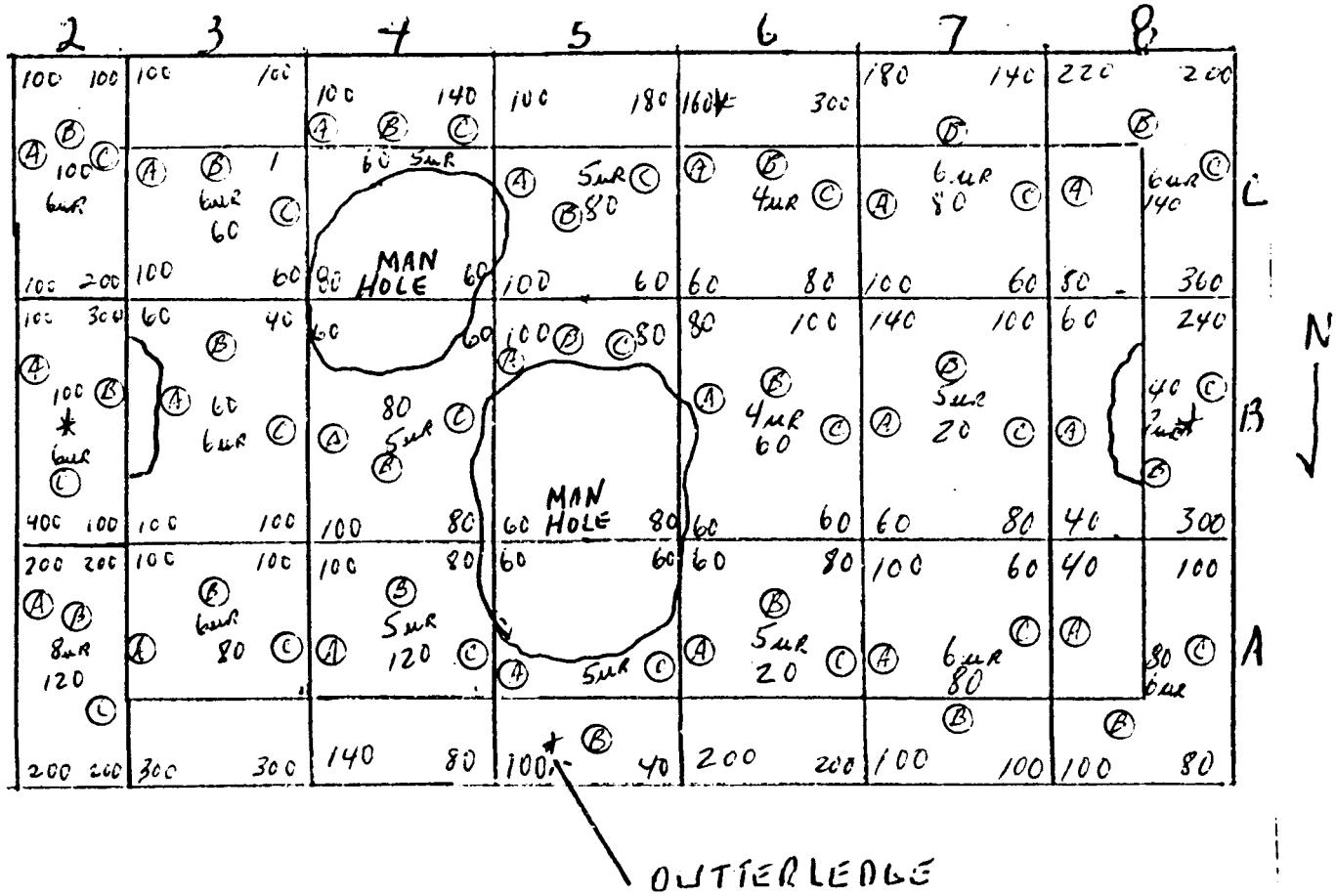
ATGS #: FMR-047

DATE: 7-24-96	INSTRUMENTATION USED				
TIME: 1430	MODEL	SERIAL #	EFF.%	BKGRD	CAL. DUE DATE
SURVEYOR: E HUMPHRES / C. Humphres / D. Goldston	12S	114316	N/A	5-6	11-9-96
LOCATION: BLDG #3192 HOTCELL O/S ROOF	18	118294	20	200-500	11-8-96
REVIEWED BY: NSW	18	118295	20	200-500	11-8-96
Smear Locations Circled. Dose Rates = microR/hr (μR/hr)					

PURPOSE OF SURVEY: UNCONDITIONAL RELEASE OF HOTCELL IN ACCORDANCE WITH THE STANDARDS OF NRC REGULATORY GUIDE 1.86.

NOTE: ALL SMEARS TAKEN = 100cm² ALL DIRECT READINGS = 100cm²/PROBE AREA.

BLDG # 3192 HOTCELL EXTERIOR ROOF (TOP VIEW)



SMEAR COUNTING ANALYSIS REPORT

DATE:	ATGS#:	ANALYSIS PERFORMED BY:
7-24-96	FMR-047	R. TREANEAS

COUNTING SYSTEM DATA

INSTRUMENT I.D. 126128	DETECTOR I.D. 133007
EFFICIENCIES: α .248% βγ .243%	MDA: α 10 dpm βγ 137 dpm
PERFORMED BY: C Humphries	
SAMPLE COUNT TIME: 1 MIN	ACTIVITY REPORT IN: ☒ dpm ☐ μCi
α BACKGROUND: 0.1 cpm	βγ BACKGROUND: 51 cpm

SAMPLE I.D. OR DESCRIPTION	GROSS COUNTS α	GROSS COUNTS βγ	NET COUNTS α	NET COUNTS βγ	ACTIVITY α	ACTIVITY βγ
A-2-A Bldg 3192	1	48	.9	-3	<MDA	<MDA
A-2-B Hot Cell	0	40	-.1	-11		
A-2-C Roof o/s	0	45	-.1	-6		
A-3-A	0	50	-.1	-1		
A-3-B	0	47	-.1	-4		
A-3-C	0	54	-.1	3		
A-4-A	0	59	-.1	8		
A-4-B	0	61	-.1	10		
A-4-C	0	69	-.1	18		
A-5-A	0	53	-.1	2		
A-5-B	0	60	-.1	9		
A-5-C	0	61	-.1	10		
A-6-A	0	50	-.1	-1		
A-6-B	0	67	-.1	16		
A-6-C	1	59	.9	8		
A-7-A	0	50	-.1	-1		
A-7-B	0	51	-.1	0		
A-7-C	0	38	-.1	-13		
A-8-A	0	40	-.1	-11		
A-8-B	0	45	-.1	-6	<MDA	<MDA

Remarks:

Reviewed By: MSW

Date: 7-25-96

SMEAR COUNTING ANALYSIS REPORT

DATE:	ATGS#:	ANALYSIS PERFORMED BY:
7-24-96	FMR-047	R. TREMEAS

COUNTING SYSTEM DATA

INSTRUMENT I.D. 126128	DETECTOR I.D. 133007
EFFICIENCIES: α. 24.3% βγ. 24.3%	MDA: α 10 dpm βγ 137 dpm
PERFORMED BY: C Humphries	
SAMPLE COUNT TIME: 1 MIN	ACTIVITY REPORT IN: ☒ dpm ☐ μCi
α BACKGROUND: 0.1 cpm	βγ BACKGROUND: 51 cpm

SAMPLE I.D. OR DESCRIPTION	GROSS COUNTS α	GROSS COUNTS βγ	NET COUNTS α	NET COUNTS βγ	ACTIVITY α	ACTIVITY βγ
A-8-C Bldg 3192	~~0~~	52	-.1	1	<MDA	<MDA
B-2-A Hot Cell	~~0~~	49	-.1	-2		
B-2-B Roof O/S	~~0~~	62	-.1	11		
B-2-C	~~0~~	52	-.1	1		
B-3-A	~~0~~	45	-.1	-6		
B-3-B	~~0~~	42	-.1	-9		
B-3-C	~~0~~	52	-.1	1		
B-4-A	~~0~~	55	-.1	4		
B-4-B	~~0~~	45	-.1	-6		
~~B-4-A~~ B-4C	~~0~~	36	-.1	-15		
B-6-A	~~0~~	57	-.1	6		
B-6-B	~~0~~	59	-.1	8		
B-6-C	~~0~~	67	-.1	16		
B-7-A	1	53	.9	2		
B-7-B	~~0~~	46	-.1	-5		
B-7-C	~~0~~	51	-.1	~~0~~		
B-8-A	1	~~44~~	.9	-7		
B-8 B	~~0~~	57	-.1	6		
B-8-C	~~0~~	49	-.1	-2		
C-2-A	~~0~~	54	-.1	3	<MDA	<MDA

Remarks:

Reviewed By: NSW

Date: 7-25-96

SMEAR COUNTING ANALYSIS REPORT

DATE:	ATGS#:	ANALYSIS PERFORMED BY:
7-24-96	FMR-047	R. TREMEAS

COUNTING SYSTEM DATA

INSTRUMENT I.D. 126128	DETECTOR I.D. 133007
EFFICIENCIES: α .243% βγ .243%	MDA: α 10 dpm βγ 137 dpm
PERFORMED BY: C Humphreys	
SAMPLE COUNT TIME: 1 min	ACTIVITY REPORT IN: ☒ dpm ☐ μCi
α BACKGROUND: 0.1 cpm	βγ BACKGROUND: 51 cpm

SAMPLE I.D. OR DESCRIPTION	GROSS COUNTS α	GROSS COUNTS βγ	NET COUNTS α	NET COUNTS βγ	ACTIVITY α	ACTIVITY βγ
~~C-B~~ C-B Bldg 3192	~~0~~	38	-.1	-13	<MDA	<MDA
C-2-C HOT CELL	~~0~~	66	-.1	15		
C-3-A ROOF O/S	~~0~~	47	-.1	-4		
C-3-B	~~0~~	56	-.1	5		
C-3-C	~~0~~	52	-.1	1		
C-4-A	~~0~~	54	-.1	3		
C-4-B	~~0~~	~~44~~	-.1	-7		
C-4-C	~~0~~	43	-.1	~~-8~~		
C-5-A	~~0~~	55	-.1	4		
C-5-B	~~0~~	61	-.1	10		
C-5-C	~~0~~	41	-.1	-10		
C-6-A	~~0~~	51	-.1	~~0~~		
C-6-B	~~0~~	41	-.1	-10		
C-6-C	~~0~~	60	-.1	9		
C-7-A	~~0~~	43	-.1	-8		
C-7-B	~~0~~	46	-.1	-5		
C-7-C	~~0~~	50	-.1	-1		
C-8-A	~~0~~	48	-.1	-3		
C-8-B	~~0~~	62	-.1	11		
C-8-C	~~0~~	50	-.1	-1		
Remarks: BLANK	~~0~~	52	-.1	1	<MDA	<MDA

Reviewed By:	Date:
NSW	7-25-96

RADIOLOGICAL SURVEY REPORT

ATGS #: FMR-049

DATE: 7-25-96	INSTRUMENTATION USED				
TIME: 0650	MODEL	SERIAL #	EFF.%	BKGRD	CAL. DUE DATE
SURVEYOR: Conway Humphries/Debora Holstein	18	118294	20	300-600	11-8-96
LOCATION: BLDG 3192 Hot Cell West Exterior wall	18	118295	20	300-600	11-8-96
REVIEWED BY: NSW	19	111280	NA	10-19	9-25-96
Smear Locations Circled. Dose Rates = microR/hr (μR/hr)					

PURPOSE OF SURVEY: Unconditional Release of BLDG 3192 in accordance with the Standards of NRC Regulatory Guide 1.86

ALL Smears taken = 100 cm^2. ALC DIRECT READINGS = 100 cm^2/PROBE AREA

	7	8	9	10
D	80 (B) 20 (F) 17ue 40 (E) 60 80	80 (B) 20 (A) 12ue 20 (D) 60 40	40 (B) 20 (A) 12ue 20 (C) 20 60	40 (B) 40 (A) 12ue 60 (C) 20 40
C	60 (B) 40 (A) 17ue 20 (C) 20 20	20 (B) 20 (A) 17ue 20 (D) 60 20	20 (B) 40 (A) 18ue 40 (C) 60 40	20 (B) ~~40~~ (A) 14ue 40 (C) 20 20
B	40 (B) 40 (A) 17ue 40 (C) 20 20	60 (B) 40 (A) 18ue 60 (C) 40 40	40 (B) 40 (A) 16ue 40 (C) 20 20	40 (A) 60 (B) 16ue 40 (C) 20 20
A	40 (B) 40 (A) 17ue 40 (C) 40 20	40 (B) 20 (A) 17ue 20 (C) 20 20	60 (B) 20 (A) 16ue 20 (C) 20 60	40 (B) 60 (A) 16ue 40 (C) 20 80

SMEAR COUNTING ANALYSIS REPORT

DATE:	ATGS#:	ANALYSIS PERFORMED BY:
7-26-96	FMR-049	J. WHATLEY

COUNTING SYSTEM DATA

INSTRUMENT I.D. 99045	DETECTOR I.D. 098325
EFFICIENCIES: α .248 % βγ .153 %	MDA: α 10 DPM βγ 239 DPM
PERFORMED BY: D. GOLDSTON	
SAMPLE COUNT TIME: 1 MIN.	ACTIVITY REPORT IN: ☒ dpm ☐ μCi
α BACKGROUND: 0.3 cpm	βγ BACKGROUND: 62. cpm

SAMPLE I.D. OR DESCRIPTION	GROSS COUNTS α	GROSS COUNTS βγ	NET COUNTS α	NET COUNTS βγ	ACTIVITY α	ACTIVITY βγ
A-7-A @ HOTCELL-WESTWALL	1	47	0.7		<MDA	<MDA
A-7-B	0	50	-0.3	-12		
A-7-C	0	52	-0.3	-10		
A-8-A	0	51	-0.3	-11		
A-8-B	0	56	-0.3	~~-8~~ -6		
A-8-C	0	59	-0.3	-3		
A-9-A	1	54	0.7	-8		
A-9-B	0	46	-0.3	-16		
A-9-C	0	66	-0.3	4		
A-10-A	0	54	-0.3	-8		
A-10-B	0	59	-0.3	-3		
A-10-C	0	~~59~~ 52	-0.3	-10		
B-7-A	1	54	0.7	-8		
B-7-B	1	55	0.7	-7		
B-7-C	0	63	0.3	1		
B-8-A	0	59	-0.3	-3		
B-8-B	0	53	-0.3	-9		
B-8-C	0	47	-0.3	-15		
B-9-A	0	54	-0.3	-8	↓	↓
B-9-B	0	46	-0.3	-16	<MDA	<MDA

Remarks:

Reviewed By: NSW

Date: 7-26-96

SMEAR COUNTING ANALYSIS REPORT

DATE: 7-26-96	ATGS#: FMR-049	ANALYSIS PERFORMED BY: J. WHATLEY

COUNTING SYSTEM DATA

INSTRUMENT I.D. 99045	DETECTOR I.D. 098325
EFFICIENCIES: α .248 % βγ .153 %	MDA: α 10 DPM βγ 239 DPM
PERFORMED BY: D. GOLDSTON	
SAMPLE COUNT TIME: 1 MIN.	ACTIVITY REPORT IN: ☒ dpm ☐ μCi
α BACKGROUND: 0.3 cpm	βγ BACKGROUND: 62 cpm

SAMPLE I.D. OR DESCRIPTION	GROSS COUNTS α	GROSS COUNTS βγ	NET COUNTS α	NET COUNTS βγ	ACTIVITY α	ACTIVITY βγ
B-9-C @ HOT CELL - WEST WALL	0	53	-0.3	-9	<MDA	<MDA
B-10-A	0	44		-18		
B-10-B	0	51		-11		
B-10-C	0	55		-7		
C-7-A	0	56		-6		
C-7-B	0	54		-8		
C-7-C	0	59		-3		
C-8-A	0	57		-5		
C-8-B	0	54		-8		
C-8-C	0	73		~~-11~~ 11		
C-9-A	1	~~47~~ 65	0.7	3		
C-9-B	0	56	-0.3	-6		
C-9-C	0	54	-0.3	-8		
C-10-A	0	49	-0.3	-13		
C-10-B	0	43	-0.3	-19		
C-10-C	1	61	0.7	-1		
~~D-7~~-A	0	61	-0.3	-1		
D-7-B	0	60	-0.3	-2		
D-7-C	0	52	-0.3	-10		
D-8-A (@ GATE)	0	47	-0.3	-15	<MDA	<MDA

Remarks:

Reviewed By: N Gh

Date: 7-26-96

SMEAR COUNTING ANALYSIS REPORT

DATE:	ATGS#:	ANALYSIS PERFORMED BY:
7-26-96	FMR-049	S. WHATLEY

COUNTING SYSTEM DATA

INSTRUMENT I.D. 99045	DETECTOR I.D. 098325
EFFICIENCIES: α .248 % βγ .153 %	MDA: α 10 DPM βγ 239 DPM
PERFORMED BY: D. GOLDSTON	
SAMPLE COUNT TIME: 1MIN.	ACTIVITY REPORT IN: ☒ dpm ☐ μCi
α BACKGROUND: 0.5 cpm	βγ BACKGROUND: 62 cpm

SAMPLE I.D. OR DESCRIPTION	GROSS COUNTS α	GROSS COUNTS βγ	NET COUNTS α	NET COUNTS βγ	ACTIVITY α	ACTIVITY βγ
D-8-B @ HOTCELL WEST WALL	0	60	-0.3	-2	<MDA	<MDA
D-8-C	0	52		-10		
D-9-A	0	51		-11		
D-9-B	0	49		-13		
D-9-C	0	61		-1		
D-10-A	0	52		-10		
D-10-B	0	63		1		
D-10-C	0	65		3	<MDA	<MDA
BLANK	0	49	-0.3	-13	<MDA	<MDA

Remarks:

Reviewed By: NSW

Date: 7-26-96

RADIOLOGICAL SURVEY REPORT

ATGS #: FMR-050

DATE: 7-25-96	INSTRUMENTATION USED				
TIME: 0820	MODEL	SERIAL #	EFF.%	BKGRD	CAL. DUE DATE
SURVEYOR: Conway Humphries/E Humphres	125	114316	N/A	10 ~~AP~~CH	11-6-96
LOCATION: BLDG 3192 HOT CELL Exterior EAST WALL	18	118294	20	400	11-8-96
REVIEWED BY: NSW	18	118295	20	400	11-8-96
Smear Locations Circled. Dose Rates = microR/hr (μR/hr)					

PURPOSE OF SURVEY: Unconditional Release of BLDG 3192 in accordance with the Standards of NRC Regulatory Guide 1.86

ALL Smears = 100 cm²

	10	9	8	7
D	80 (B) 60 (A) 10u2 40 (C) 60 60	60 (B) 100 (A) 12u2 80 (C) 60 60	80 (B) 60 (A) 12u2 40 (C) 50 60	60 (B) 80 (A) 12u2 60 (C) 40 60
C	50 (B) 40 (A) 12u2 60 (C) 60 40	40 (B) 20 (A) 12u2 40 (C) ~~0~~ 40	40 (B) 40 (A) 12u2 40 (C) 50 60	40 (B) 60 (A) 13u2 20 (C) 50 50
B	40 (B) 20 (A) 12u2 20 (C) 20 20	50 (B) 40 (A) 12u2 40 (C) ~~0~~ 40	50 (B) 50 (A) 10u2 ~~0~~ (C) 50 50	100 (B) 100 (A) 11u2 50 (C) 50 50
A	40 (B) 60 (A) 11u2 60 (C) 60 80	~~0~~ (B) 60 (A) 11u2 40 (C) 60 60	40 (B) 40 (A) 10u2 60 (C) 40 60	40 (B) 20 (A) 10u2 20 (C) 40 40

SMEAR COUNTING ANALYSIS REPORT

DATE:	ATGS#:	ANALYSIS PERFORMED BY:
07-24-96	FMR-650	S. Gray

COUNTING SYSTEM DATA

INSTRUMENT I.D. 99045	DETECTOR I.D. 098325
EFFICIENCIES: α .246 % βγ .155 %	MDA: α 6 DPM βγ 230 DPM
PERFORMED BY: E. Humphees	
SAMPLE COUNT TIME: 1 min	ACTIVITY REPORT IN: ⊟ dpm □ μCi
α BACKGROUND: 01 cpm	βγ BACKGROUND: 60 cpm

SAMPLE I.D. OR DESCRIPTION	GROSS COUNTS α	GROSS COUNTS βγ	NET COUNTS α	NET COUNTS βγ	ACTIVITY α	ACTIVITY βγ
A-7-A BLDG - 3192 East Exterior	0	52	-.1	8	< MDA	< MDA
A-7-B Hot Cell wall	0	41	-.1	19		
A-7-C	0	58	-.1	2		
A-8-A	0	56	-.1	4		
A-8-B	0	50	-.1	10		
A-8-C	1	54	-.9	6		
A-9-A	0	53	-.1	7		
A-9-B	0	62	-.1	-2		
A-9-C	0	69	-.1	-9		
A-10-A	0	64	-.1	-4		
A-10-B	0	57	-.1	3		
A-10-C	0	62	-.1	-2		
B-7-A	0	67	-.1	-7		
B-7-B	0	55	-.1	5		
B-7-C	0	55	-.1	5		
B-8-A	0	52	-.1	8		
B-8-B	0	62	-.1	-2		
B-8-C	0	59	-.1	1		
B-9-A	1	62	-.9	-2		
B-9-B	1	60	-.9	-2	< MDA	< MDA

Remarks: BLDG 3192 - Smear of East Exterior wall of Hot Cell.

Reviewed By:	Date:
NBW	7-25-96

SMEAR COUNTING ANALYSIS REPORT

DATE:	ATGS#:	ANALYSIS PERFORMED BY:
07-24-96	FMR-056	

COUNTING SYSTEM DATA

INSTRUMENT I.D. 99045	DETECTOR I.D. 098325
EFFICIENCIES: α .246 % βγ .155 %	MDA: α 6 DPM βγ 230 DPM
PERFORMED BY: E. Humphers	
SAMPLE COUNT TIME: 1 Min	ACTIVITY REPORT IN: ☒ dpm ☐ μCi
α BACKGROUND: 0.1 cpm	βγ BACKGROUND: 60 cpm

SAMPLE I.D. OR DESCRIPTION	GROSS COUNTS α	GROSS COUNTS βγ	NET COUNTS α	NET COUNTS βγ	ACTIVITY α	ACTIVITY βγ
B-9-C BLDG-3192 East Entrance Way	0	53	-.1	7	<MDA	<MDA
~~B-10-A~~ RG B-10-A	1	49	-0.9	11		
B-10-B	2	48	-1.9	12		
B-10-C	0	59	-.1	1		
C-7-A	0	49	-.1	11		
C-7-B	0	59	-.1	1		
C-7-C	0	56	-.1	4		
C-8-A	0	60	-.1	0		
C-8-B	1	55	-0.9	5		
C-8-C	0	50	-.1	10		
C-9-A	0	55	-.1	5		
C-9-B	0	41	-.1	19		
C-9-C	1	50	-0.9	10		
C-10-A	1	63	-0.9	~~BD~~-3		
~~C-10-B~~ RG C-10-B	0	48	-.1	12		
C-10-C	0	60	-.1	0		
D-7-A	0	54	-.1	6		
D-7-B	0	49	-.1	11		
D-7-C	0	55	-.1	5		
~~D-8-A~~ RG D-8-A	0	59	-.1	1	<MDA	<MDA

Remarks: Page 2 of 1

Reviewed By: NSW Date: 7-25-96

SMEAR COUNTING ANALYSIS REPORT

DATE: 07-24-96	ATGS#: FMR-050	ANALYSIS PERFORMED BY: [signature]

COUNTING SYSTEM DATA

INSTRUMENT I.D. 99045	DETECTOR I.D. 098325
EFFICIENCIES: α .246% βγ .155%	MDA: α 6 DPM βγ 230 DPM
PERFORMED BY: E. Humphrees	
SAMPLE COUNT TIME: 1 min	ACTIVITY REPORT IN: ☒ dpm ☐ μCi
α BACKGROUND: 0.1 cpm	βγ BACKGROUND: 60 cpm

SAMPLE I.D. OR DESCRIPTION		GROSS COUNTS α	GROSS COUNTS βγ	NET COUNTS α	NET COUNTS βγ	ACTIVITY α	ACTIVITY βγ
D-8-B		1	58	-0.9	0	<MDA	<MDA
D-8-C		1	40	-0.9	20		
D-9-A		0	55	-1	5		
D-9-B		1	54	-0.9	6		
D-9-C		0	54	-1	6		
D-10-A		0	61	-1	-1		
D-10-B		1	60	0.9	0		
D-10-C	BLDG-3192 East Exterior wall	0	47	-.1	13	<MDA	<MDA
NA		NA	NA	NA	NA	NA	NA

Remarks: ~~Page 3 2 of~~ RG Page 3 of Page 1

Reviewed By: NSW

Date: 7-25-96

ALLIED TECHNOLOGY GROUP, INC. FORM ATGF-006

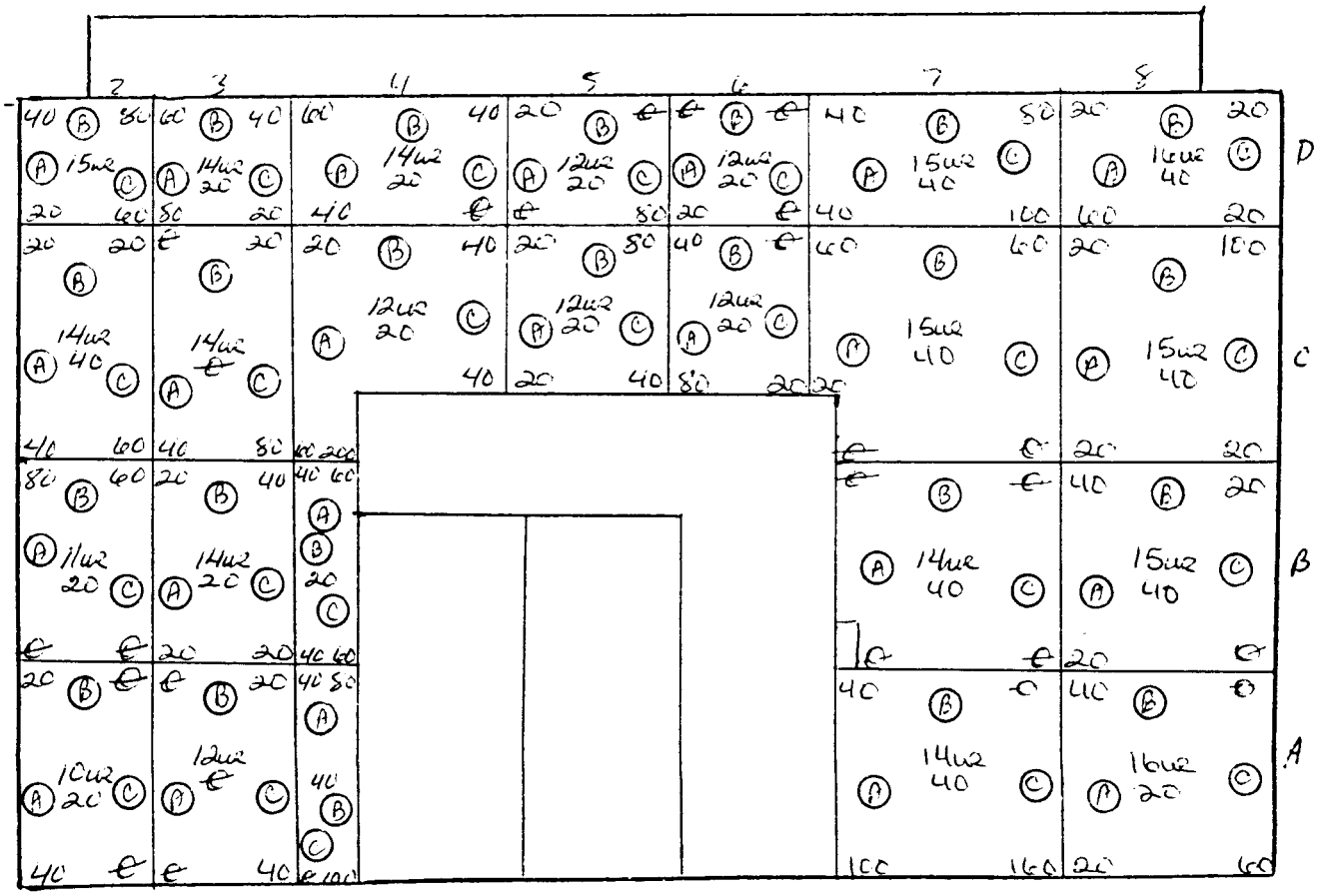
RADIOLOGICAL SURVEY REPORT

ATGS #: FMR-048

DATE: 7-25-96	INSTRUMENTATION USED				
TIME: 0800	MODEL	SERIAL #	EFF.%	BKGRD	CAL. DUE DATE
SURVEYOR: Connie Humphres/E Humphres	i8	118294	20	200-300	11-8-96
LOCATION: BLDG 3192 HOTCELL Exterior Northwall	18	118295	20	200-300	11-8-96
REVIEWED BY: NSW	19	111280	N/A	10	9-25-96
Smear Locations Circled. Dose Rates = microR/hr (μR/hr)					

PURPOSE OF SURVEY: Unconditional Release of BLDG 3192 in accordance with the standards of NRC Regulatory Guide 1.86

ALL smears = 100 cm²



SMEAR COUNTING ANALYSIS REPORT

DATE:	ATGS#:	ANALYSIS PERFORMED BY:
7 25 96	FMR048	Richard Rupnicht

COUNTING SYSTEM DATA

INSTRUMENT I.D. 99045	DETECTOR I.D. 098325
EFFICIENCIES: α .263 βγ .154	MDA: α 10. Dpm βγ 232 Dpm
PERFORMED BY: Humphries / Goldstein	
SAMPLE COUNT TIME: 1 MIN.	ACTIVITY REPORT IN: ☒ dpm ☐ μCi
α BACKGROUND: 0.3 cpm	βγ BACKGROUND: 58 cpm

SAMPLE I.D. OR DESCRIPTION	GROSS COUNTS α	GROSS COUNTS βγ	NET COUNTS α	NET COUNTS βγ	ACTIVITY α	ACTIVITY βγ
A-2-A Hot cell 0/s North Wall	0	43	-.3	-15	<MDA	<MDA
A-2-B	0	51	-.3	-7		
A-2-C	1	61	.7	3		
A-3-A Hot cell 0/s North Wall	0	63	-.3	5		
A-3-B	0	52	-.3	-6		
A-3-C	1	76	0.7	-18		
A-4-A Hot cell 0/s North Wall	1	60	0.7	2		
A-4-B	1	65	0.7	7		
A-4-C	0	64	-.3	6		
A-7-A Hot cell 0/s North Wall	1	63	0.7	5		
A-7-B	0	60	-.3	2		
A-7-C	0	60	-.3	2		
A 8 A Hot cell wall 0/s	0	52	-.3	-6		
A 8 B	0	55	-.3	-3		
A-B-C	0	59	-.3	1		
B-2-A Hot cell 0/s North Wall	0	51	-.3	-7		
B-2-B	0	60	-.3	2		
B-2-C	2	60	1.7	2		
B-3-A Hot cell 0/s North Wall	2	47	1.7	-11		
B-3-B Hot cell	0	58	RAF 0 -.3	0	<MDA	<MDA

Remarks:

Reviewed By: NSW

Date: 7-25-96

SMEAR COUNTING ANALYSIS REPORT

DATE:	ATGS#:	ANALYSIS PERFORMED BY:
7-25-96	FMR 048	Richard Ruyscher

COUNTING SYSTEM DATA

INSTRUMENT I.D. 99045	DETECTOR I.D. 098325
EFFICIENCIES: α .263 βγ .154	MDA: α 10 Dpm βγ 230 Dpm
PERFORMED BY: Humphries / Goldstein	
SAMPLE COUNT TIME: 1 min.	ACTIVITY REPORT IN: ☒ dpm ☐ μCi
α BACKGROUND: 03 cpm	βγ BACKGROUND: 58 cpm

SAMPLE I.D. OR DESCRIPTION	GROSS COUNTS α	GROSS COUNTS βγ	NET COUNTS α	NET COUNTS βγ	ACTIVITY α	ACTIVITY βγ
B-3-C	0	60	-.3	2.	<MDA	<MDA
B-4-A Hot cell o/s North wall	0	75	-.3	17.		
B-4-B	0	61	-.3	3.		
B-4-C	0	63	-.3	5.		
B-7-A Hot cell o/s North wall	0	53	-.3	-5		
B-7-B	1	44	.7	-14		
B-7-C	0	46	-.3	-12		
B-8-A Hot cell o/s North wall	0	66	-.3	8		
B-8-B	1	56	.7	-2		
B-8-C	0	58	-.3	0.		
C-2-A Hot cell o/s North Wall	0	46	-.3	-12		
C-2-B	0	48	-.3	-10		
C-2-C	0	66	-.3	8.		
C-3-A Hot cell o/s North Wall	0	57	-.3	-1.		
C-3-B	0	42	-.3	-16		
C-3-C	0	71	-.3	13		
C-4-A Hot cell o/s North wall	0	62	-.3	4		
C-4-B	0	54	-.3	-4		
C-4-C	1	66	.7	8		
C-5-A Hot cell o/s North wall	0	62	-.3	4	<MDA	<MDA

Remarks:

Reviewed By: NJN

Date: 7-25-96

SMEAR COUNTING ANALYSIS REPORT

DATE:	ATGS#:	ANALYSIS PERFORMED BY:
7 25 96	FMR048	Richard A. Ruprecht

COUNTING SYSTEM DATA

INSTRUMENT I.D. 99045	DETECTOR I.D. 098325
EFFICIENCIES: α .263 βγ .154	MDA: α 10 Dpm βγ 230 Dpm
PERFORMED BY: Humphries/Goldstein	
SAMPLE COUNT TIME: 1 min	ACTIVITY REPORT IN: ☒ dpm ☐ μCi
α BACKGROUND: 0.3 cpm	βγ BACKGROUND: 58 cpm

SAMPLE I.D. OR DESCRIPTION	GROSS COUNTS α	GROSS COUNTS βγ	NET COUNTS α	NET COUNTS βγ	ACTIVITY α	ACTIVITY βγ
C-5-B	0	46	-.3	-12	<MDA	<MDA
C-5-C	0	62	-.3	4		
C-6-A	0	69	-.3	~~-11~~ 11		
C-6-B	0	45	-.3	-13		
C-6-C	0	61	-.3	3		
C-7-A	0	56	-.3	-2		
C-7-B	0	54	-.3	-4		
C-7-C	0	59	-.3	1		
C-8-A	1	46	.7	-12		
C-8-B	0	62	-.3	4		
C-8-C	0	53	-.3	-5		
D-2-A	0	47	-.3	-11		
D-2-B	0	59	-.3	1		
D-2-C	1	66	.7	8		
D-3-A	1	56	.7	-2		
D-3-B	0	54	-.3	-4		
D-3-C	0	51	-.3	-7		
D-4-A	0	58	-.3	0		
D-4-B	0	55	-.3	-3	↓	↓
D-4-C	0	54	-.3	-4	<MDA	<MDA

Remarks:

Reviewed By: NSW

Date: 7-25-96

SMEAR COUNTING ANALYSIS REPORT

DATE: 7-25-96	ATGS#: FMR 048	ANALYSIS PERFORMED BY: Richard A Ruprecht

COUNTING SYSTEM DATA

INSTRUMENT I.D. 99045	DETECTOR I.D. 098325
EFFICIENCIES: α .263 βγ .154	MDA: α 10 Dpm βγ 237 Dpm
PERFORMED BY: Humphries / Goldstein	
SAMPLE COUNT TIME: 1 MIN.	ACTIVITY REPORT IN: ☒ dpm ☐ μCi
α BACKGROUND: 0.3 cpm	βγ BACKGROUND: 58 cpm

SAMPLE I.D. OR DESCRIPTION	GROSS COUNTS α	GROSS COUNTS βγ	NET COUNTS α	NET COUNTS βγ	ACTIVITY α	ACTIVITY βγ
D 5 A	0	51	-.3	-7	< MDA	< MDA
D 5 B	0	59	-.3	1		
D 5 C	0	57	-.3	-1		
D 6 A	0	61	-.3	3		
D 6 B	0	60	-.3	2		
D 6 C	0	56	-.3	-2		
D-7-A	1	57	RLR ~~-.3~~ .7	-1		
D-7-B	0	58	-.3	0		
D 7 C	0	64	-.3	6		
D 8 A	0	56	-.3	-2		
D 8 B	0	63	-.3	5		
D 8 C	1	64	.7	6		
Blank	0	65	-.3	7	< MDA	< MDA
		NA				

Remarks:

Reviewed By: NSW

Date: 7-25-96

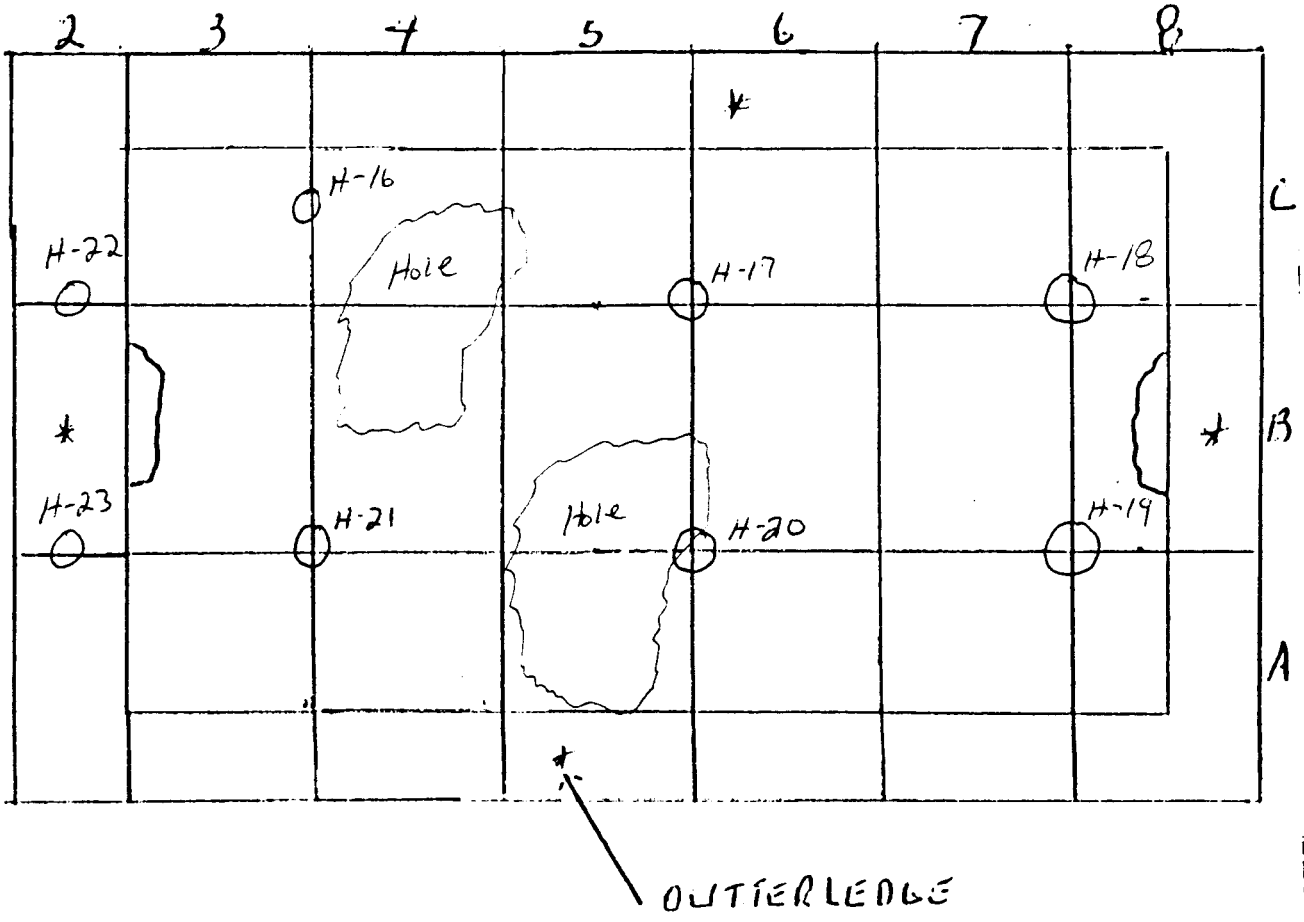
RADIOLOGICAL SURVEY REPORT

ATGS #: FMR-052

DATE: 7-29-96 TO 7-31-96	INSTRUMENTATION USED				
TIME: 0600 TO 1500	MODEL	SERIAL #	EFF.%	BKGRD	CAL. DUE DATE
SURVEYOR: D. CORBETT					
LOCATION: BLDG 3192 FOYER QA HOT CELL				A	
REVIEWED BY: MJW			N		
Smear Locations Circled. Dose Rates = microR/hr (μR/hr)					

PURPOSE OF SURVEY: QA SURVEY POINT REFERENCE MAP FOR HOT CELL ROOF

EXTERIOR ROOF HOT CELL



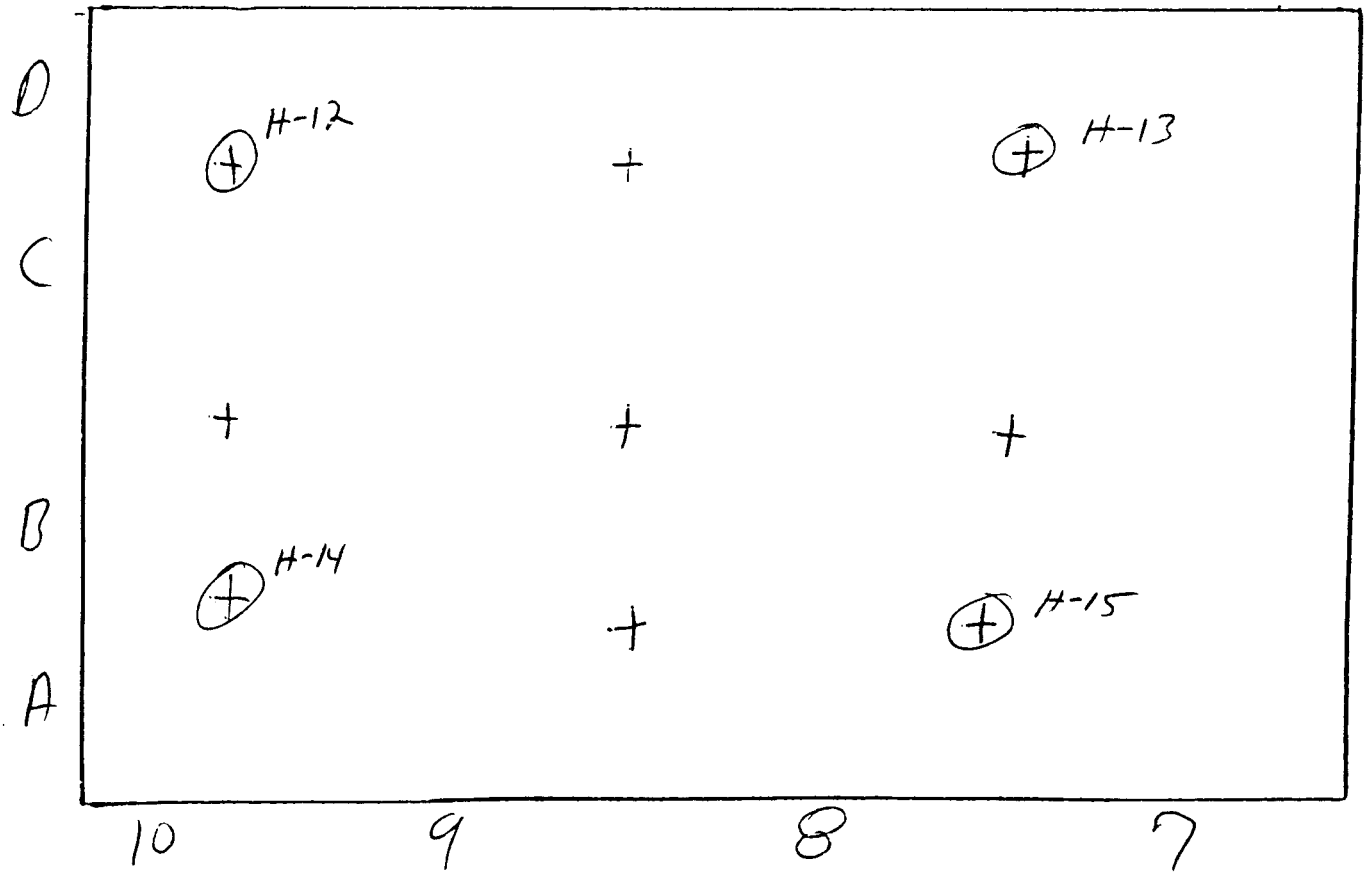
RADIOLOGICAL SURVEY REPORT

ATGS #: FMR-052

DATE: 7-29-96	INSTRUMENTATION USED				
TIME: 0600 TO 1500	MODEL	SERIAL #	EFF.%	BKGRD	CAL. DUE DATE
SURVEYOR: D. CORBETT					
LOCATION: BLDG 3142 FOYER QA HOT CELL			N	A	
REVIEWED BY: N/A					
Smear Locations Circled Dose Rates = microR/hr (μR/hr)					

PURPOSE OF SURVEY: QA SURVEY POINT REFERENCE MAP FOR HOT CELL EAST WALL

EXTERIOR EAST WALL HOT CELL FACING WEST



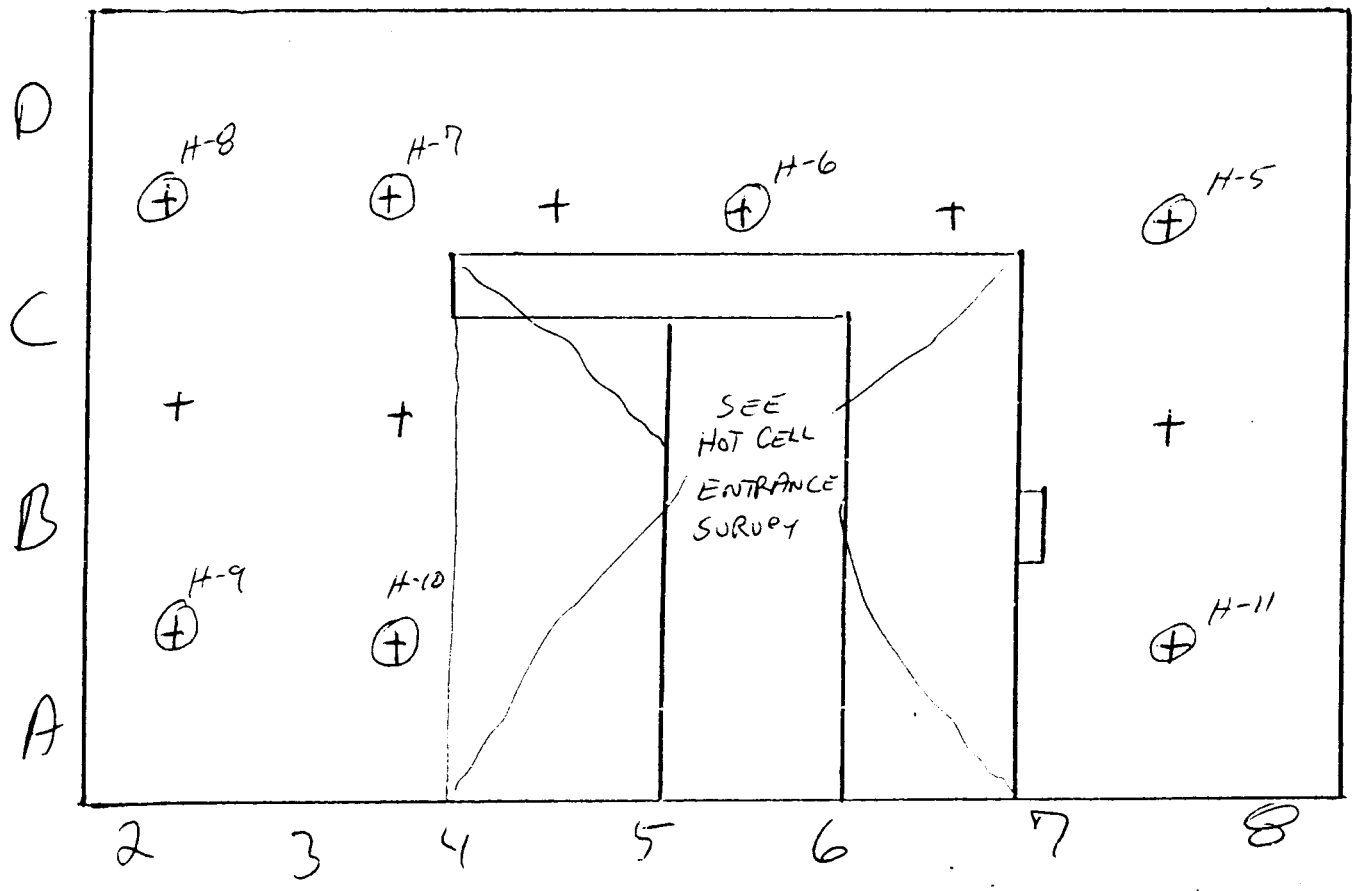
RADIOLOGICAL SURVEY REPORT

TGS #: FMR-052

DATE: 7-29-96	INSTRUMENTATION USED				
TIME: 0600 TO 1500	MODEL	SERIAL #	EFF.%	BKGRD	CAL. DUE DATE
SURVEYOR: D. CORBED					
LOCATION: BLDG 3192 FOYER QA HOT CELL					
REVIEWED BY: ASW					
Smear Locations Circled. Dose Rates = microR/hr (μR/hr)					

PURPOSE OF SURVEY: QA SURVEY POINT REFERENCE MAP FOR HOT CELL NORTH WALL

EXTERIOR NORTH WALL HOT CELL FACING SOUTH



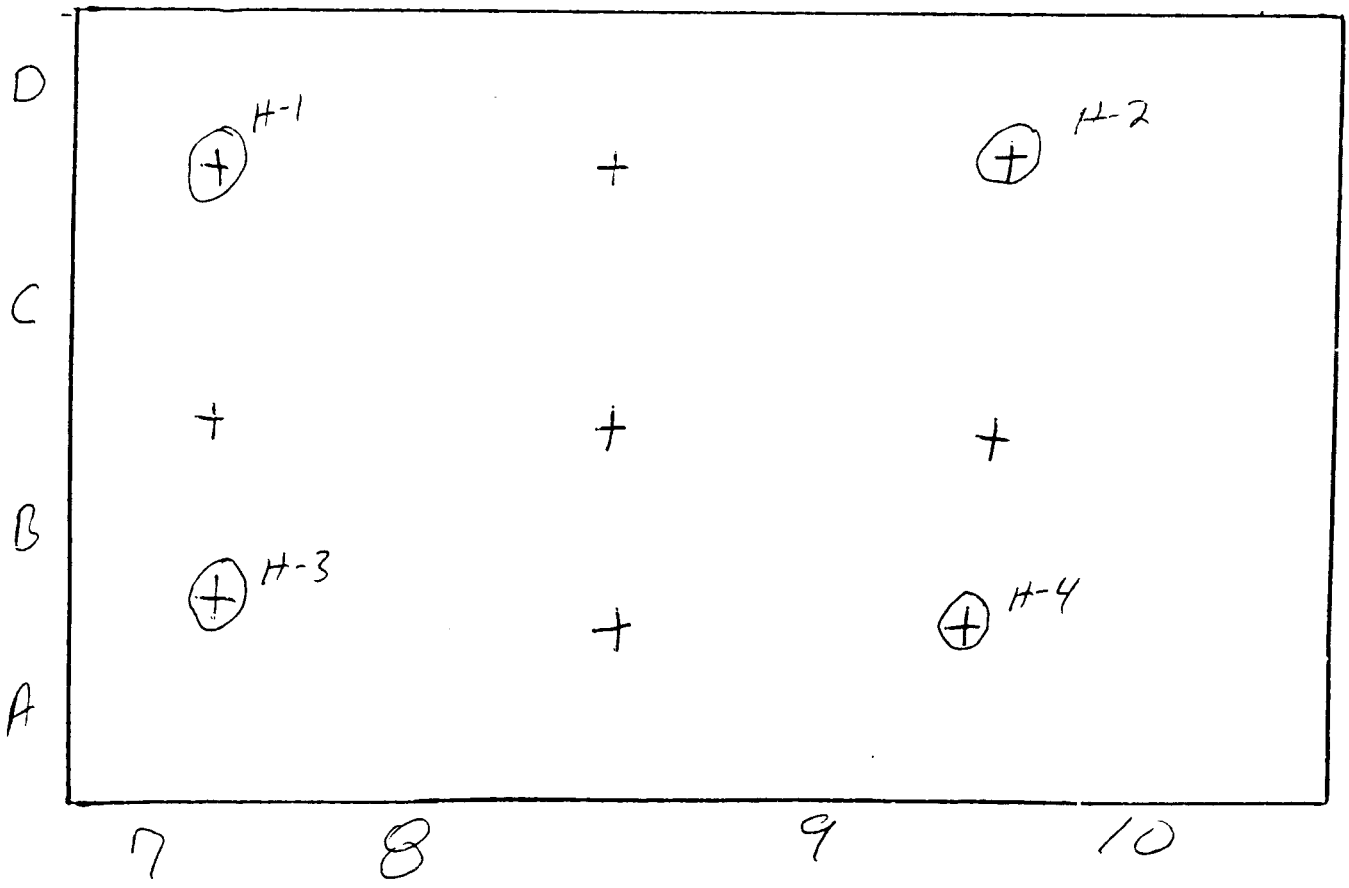
RADIOLOGICAL SURVEY REPORT

ATGS #: FMR-052

DATE: 7-29-96	INSTRUMENTATION USED				
TIME: 0600 TO 1500	MODEL	SERIAL #	EFF.%	BKGRD	CAL. DUE DATE
SURVEYOR: O. CORBETT	M-18	120052 / 27608	20	240-400cpm	11-8-96
LOCATION: BLDG 3142 FOYER QA HOT CELL	12S	114316	—	9-11 uR/Hr	11-9-96
REVIEWED BY: JSW	19	98102	—	8-15 uR/Hr	9-25-96
Smear Locations Circled. Dose Rates = microR/hr (μR/hr)				~ A	

PURPOSE OF SURVEY: QA SURVEY POINT REFERENCE MAP FOR HOT CELL WEST WALL

EXTERIOR WEST HOT CELL WALL FACING EAST



RADIOLOGICAL SURVEY REPORT

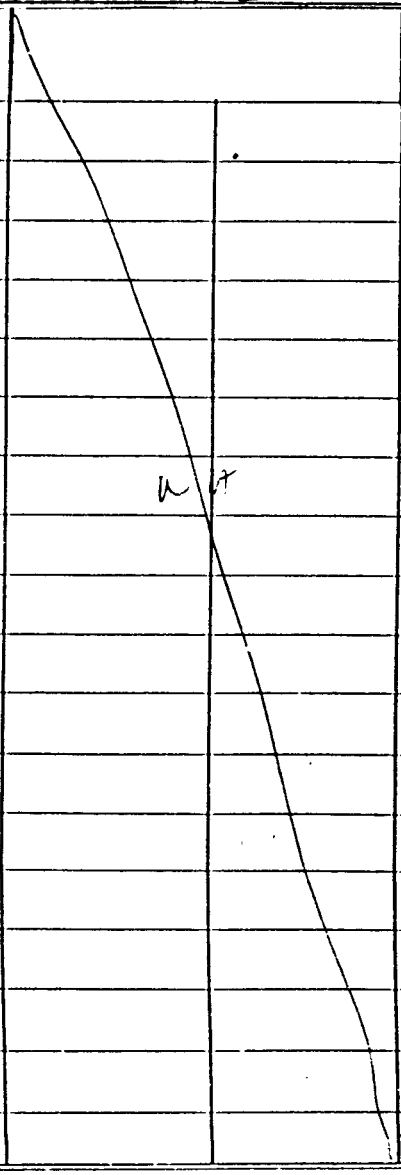
ATGS #: FMR-052

DATE: 7-29-96 TO 7-31-96	INSTRUMENTATION USED				
TIME: 0600 TO 1500	MODEL	SERIAL #	EFF.%	BKGRD	CAL. DUE DATE
SURVEYOR: D. CORBETT	19	98102	—	8-15 UR/HR	9-25-96
LOCATION: BLDG 3142 FOYER QA HOT CELL	14	98112	—	6 UR/HR.	12-7-96
REVIEWED BY: NSW	18	118295 / 127609	20	300 CPM	11-8-96
Smear Locations Circled Dose Rates = microR/hr (μR/hr)	18	120052 / 127608	20	240-400 CPM	11-8-96
	12S	114316	—	8-11 UR/HR	11-9-96

PURPOSE OF SURVEY: SURVEY FOR UNCONDITIONAL RELEASE AS PER CRITERIA ESTABLISHED IN NRC REGULATORY GUIDE 1.86

SMEAR RESULTS ATTACHED

SURVEY POINT #	UR/HR	CCPM	SURVEY POINT #	UR/HR	CCPM
H-1	15	0	H-19	9	0
H-2	15	20	H-20	8	0
H-3	13	0	H-21	8	80
H-4	13	0	H-22	7	200
H-5	12	0	H-23	6	350
H-6	11	0			
H-7	12	0			
H-8	13	20			
H-9	12	20			
H-10	12	0			
H-11	10	0			
H-12	15	40			
H-13	14	20			
H-14	12	0			
H-15	13	20			
H-16	9	40			
H-17	9	40			
H-18	10	20			



SMEAR COUNTING ANALYSIS REPORT

DATE:	ATGS#:	ANALYSIS PERFORMED BY:
7-25-96	FMR-052	R. Travnas

COUNTING SYSTEM DATA

INSTRUMENT I.D. 126128	DETECTOR I.D. 133007
EFFICIENCIES: α .278 % βγ .241 %	MDA: α 5 DPM βγ 142 DPM
PERFORMED BY: D Corbett	
SAMPLE COUNT TIME: 1 MIN	ACTIVITY REPORT IN: ☒ dpm ☐ μCi
α BACKGROUND: 0.1 cpm	βγ BACKGROUND: 54 cpm

SAMPLE I.D. OR DESCRIPTION	GROSS COUNTS α	GROSS COUNTS βγ	NET COUNTS α	NET COUNTS βγ	ACTIVITY α	ACTIVITY βγ
H-1 Bldg 3192	~~0~~	39	-.1	-15	<MDA	<MDA
H-2 QA O/S	~~0~~	49	-.1	-5		
H-3 Hot Cell	~~0~~	51	-.1	-3		
H-4	~~0~~	42	-.1	-12		
H-5	~~0~~	49	-.1	-5		
H-6	~~0~~	57	-.1	3		
H-7	1	64	.9	10		
H-8	~~0~~	72	-.1	18		
H-9	~~0~~	59	-.1	5		
H-10	1	57	.9	3		
H-11	~~0~~	53	-.1	-1		
H-12	~~0~~	59	-.1	5		
H-13	1	75	.9	21		
H-14	~~0~~	50	-.1	-4		
H-15	~~0~~	54	-.1	0		
H-16	~~0~~	46	-.1	-8		
H-17	~~0~~	64	-.1	10		
H-18	~~0~~	43	-.1	-11		
H-19	~~0~~	55	-.1	1		
H-20	~~0~~	62	-.1	8	<MDA	<MDA

Remarks:

Reviewed By: [signature]

Date: 7-25-96

SMEAR COUNTING ANALYSIS REPORT

DATE:	ATGS#:	ANALYSIS PERFORMED BY:
7-25-96	FMR-052	R. Traynas

COUNTING SYSTEM DATA

INSTRUMENT I.D. 126128	DETECTOR I.D. 133007
EFFICIENCIES: α .278 % βγ .241 %	MDA: α 5DPM βγ 192 DPM
PERFORMED BY: D Corbett	
SAMPLE COUNT TIME: 1 MIN	ACTIVITY REPORT IN: ☒ dpm ☐ μCi
α BACKGROUND: 0.1 cpm	βγ BACKGROUND: 54 cpm

SAMPLE I.D. OR DESCRIPTION	GROSS COUNTS α	GROSS COUNTS βγ	NET COUNTS α	NET COUNTS βγ	ACTIVITY α	ACTIVITY βγ
H-21 Bldg 3192	~~0~~	59	-.1	5	<MDA	<MDA
BLANK QA O/S	~~0~~	51	-.1	-3	<MDA	<MDA
HOT Cell						

Remarks:

Reviewed By: NSW

Date: 7-25-96

SMEAR COUNTING ANALYSIS REPORT

DATE:	ATGS#:	ANALYSIS PERFORMED BY:
7-31-96	FMR052	K Corbett

COUNTING SYSTEM DATA

INSTRUMENT I.D. 126128	DETECTOR I.D.
EFFICIENCIES: α .266 βγ .243	MDA: α 6 DPM βγ 140 DPM
PERFORMED BY: D Corbett	
SAMPLE COUNT TIME: 1 min	ACTIVITY REPORT IN: ☒ dpm ☐ μCi
α BACKGROUND: 0.1 cpm	βγ BACKGROUND: 54 cpm

SAMPLE I.D. OR DESCRIPTION	GROSS COUNTS α	GROSS COUNTS βγ	NET COUNTS α	NET COUNTS βγ	ACTIVITY α	ACTIVITY βγ
QA H-22	0	52	-.1	-2	<MDA	<MDA
Hot Cell Roof H-23	2	66	1.9	12	<MDA	<MDA
BLDG. 3192 BLANK	1	65	0.9	11	<MDA	<MDA
		NA				

Remarks:

Reviewed By: NSG

Date: 8-25-96