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April 27, 2004

Ms. Rachel Browder
Fuel Cycle Decommissioning Branch
U.S. Nuclear Regulatory Commission
Region IV
611 Ryan Plaza Drive, Suite 400
Arlington, TX 76011

Re: Docket No. 040-08006: License No. SUB-986
Kerr-McGee Chemical L.L.C. (KMCLLC) Technical Center Final Status Survey Report
Changes

Dear Ms. Browder:

The purpose of this letter is to provide the following changes for the two (2) copies of the KMTC Indoor Final Status Survey Report we submitted to your office on April 15, 2004 for review and approval. After submitting the report, we discovered a minor error in converting the background reference data from betas per minute to disintegrations per minute. The correction of this error has no impact on the conclusions, findings, drawings, etc. contained in the Indoor FSSR or the Technical Memos sent to you on April 15, but we wanted to make sure that the report contained accurate and up to date information. The following table identifies the pages that need to be replaced in the Indoor FSSR:

Page 7	Corrected Background Table
Pages 21-52	Corrected Section 4
Pages 101-179	Corrected Appendix 3

Please feel free to contact me if there are any additional questions or concerns.

Sincerely,

A handwritten signature of Russell H. Jones in dark ink.

Russell H. Jones
Program Manager

Attachment

Kerr-McGee Shared Services Company LLC

123 Robert S. Kerr Avenue, Oklahoma City, OK 73102 • P.O. Box 25861, Oklahoma City, OK 73125

cc: (w/ attachment)
Mike Broderick, ODEQ

cc: (w/o attachment)
D. Blair Spitzberg, PhD, NRC Region IV

Table 2.2
Summary of Background Data for Indoor Survey Units

Matrix Code	Matrix Material	Number of Data Points	Average Background (dpm/100cm ²)	Sigma (dpm/100cm ²)
B	Brick	15	585	56
C	Concrete	15	143	47
CB	Concrete Block	15	387	43
CT	Ceramic Tile	25	254	39
CTP	Countertop	15	127	91
CTX	Celotex Tile	25	292	63
F	Foam Insulation	0	0	NA
FT	Formica Tops	15	64	34
G	Glass	0	0	NA
GB	Gypsum Board	15	25	50
M	Metal	0	0	NA
P	Plastic	0	0	NA
PL	Plaster	15	110	84
R	Rubber	0	0	NA
RF	Removable Flooring	15	-16	16
SS	Stainless Steel	0	0	NA
VT	Vinyl Tile	15	72	42
W	Wood	0	0	NA

2.4 RELEASE CRITERIA

2.4.1 Building Surfaces and Fixed Equipment

2.4.1.1 Table 2.3 displays the Derived Concentration Guideline (DCGL_w) for measurements on building surfaces and fixed equipment. This value is the primary release criterion from the D Plan and is applied net of background to building surfaces such as roofs. Fixed equipment, such as laboratory casework, piping and tanks that will remain in use and are unlikely to be removed are considered part of the building structure surface and are subject to final status survey at the classification of the survey unit in which they are installed. Some examples of building surfaces and fixed equipment are floors, walls, ceilings, doors, windows, sinks, hoods, lighting fixtures, built-in laboratory benches, built-in furniture, and ventilation ducts.

Table 2.3
Building Surfaces Release Criteria

Nuclide	DCGL _w (dpm/100cm ²)	DCGL _{EMC} (dpm/100cm ²)
Thorium-232 and progeny	12,500	31,000
Uranium series through U-234	177,300	443,000
Ra-226 and progeny	16,300	40,000

4 FSS RESULTS AND DISCUSSION

4.1 INDOOR SURVEY UNIT 100

4.1.1 Direct Beta Measurements on Building Surfaces

4.1.1.1 ISU-100 was surveyed from November 2000 through February 2004. 99 direct beta measurements were taken on the floor, ceiling, and wall surfaces. 34 of these were included in the systematic grid. Diagrams of the room layouts of the walls and floor with the beta measurements taken on them are presented in Appendix 2, Figures 4.1a and 4.1b.

4.1.1.2 A summary of the direct measurement results is presented in Table 4.100.1 and shows that the maximum activity measured, net of background, was 234 dpm/100cm². The average value for the survey unit was -17 dpm/100cm². All values were less than 2% of the DCGL_w.

Table 4.100.1
ISU-100 Direct Measurements Summary
(Building Surfaces)

Matrix		Points	Avg Net Activity (dpm/100cm ²)	Max Net Activity (dpm/100cm ²)
Concrete	C	2	43	106
Glass	G	1	-63	-63
Gypsum Board	GB	62	-5	182
Metal	M	5	-15	73
Vinyl Tile	VT	29	-45	234

4.1.2 Direct Beta Measurements on Fixed Equipment

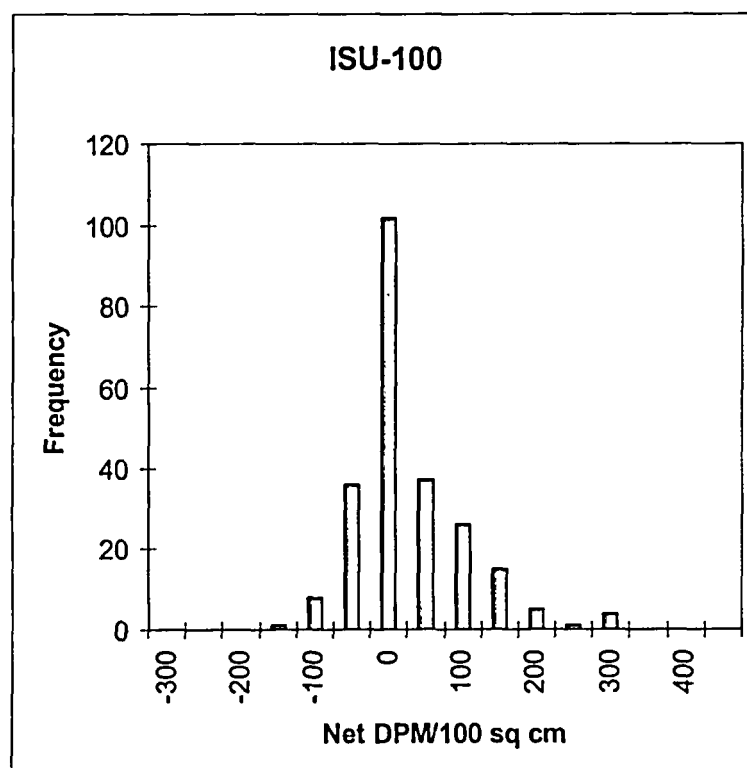
4.1.2.1 All items of fixed equipment assigned to ISU-100 (listed in Appendix 1) were surveyed by direct beta measurements. A summary of the measurements taken is provided in Table 4.100.2 sorted by matrix. The net values observed ranged from -190 to 296 dpm/100cm². All values were less than 3% of the DCGL_w.

Table 4.100.2
ISU-100 Direct Measurements Summary
(Fixed Equipment)

Matrix		Points	Avg Net Activity (dpm/100cm ²)	Max Net Activity (dpm/100cm ²)
Counter Top	CTP	18	0	131
Metal	M	111	28	296
Plastic	P	5	48	102
Wood	W	2	-3	10

4.1.3 Direct Beta Measurement Distribution and Threshold Tests

- 4.1.3.1 A histogram of all the beta direct net activity values found in ISU-100 is provided in Figure 4.100.1. The distribution appears to have a single mode with the majority of the data centered at 0 dpm/100cm². This is consistent with a normal distribution of background radioactivity possibly mixed with some residual radioactivity. All measurements were well below the DCGL_w.



Histogram of Net Direct Beta Measurements
Figure 4.100.1

- 4.1.3.2 All the direct measurements in the survey unit were analyzed using the Threshold Comparison Test Report (TCTR) and the results are presented in Appendix 3 for ISU-100. The TCTR report contains a complete listing of all the beta direct measurements taken in the Final Status Survey within ISU-100 sorted by room, surface, and activity. The summary pages indicate that all tests described in the D Plan passed except for the background test. All tests required for release of a Class 2 survey unit were passed. A comparison of test results and requirements for release of the survey unit is presented in Table 4.100.3.

Table 4.100.3
Requirements for ISU Release^a

Test	Class 2	ISU-100
Min/Max	Not Required	P
Background	Not Required	F
DCGL _w	PASS	P
DCGL _{avg}	PASS	P
EMC	PASS	P
Sign Test for Paired Data	PASS	P

^a Class 1 or 2 survey units which pass Min/Max may be released without further consideration.

4.1.4 Beta Scan Measurements

- 4.1.4.1 Beta scans were performed on 100% of all room surfaces and fixed equipment. The beta scan results are presented in Appendix 4. No beta scan measurements in ISU-100 exceeded the scan threshold in Table 2.5.

4.1.5 Exhaust System Measurements

- 4.1.5.1 Additional measurements were collected from the exhaust system outlets on the roof of the building. Direct beta measurements on the exhaust systems were included in the fixed equipment analysis.
- 4.1.5.2 Gamma scan measurements were collected on the vent stacks and surrounding roof areas, including nearby roof drains, for ISU-100. There was only one vent stack for the two hoods in Room C-13. No gamma scan measurements exceeded the scan threshold listed in Section 2.9.
- 4.1.5.3 Swipes were collected for measurements of removable contamination on the blowers, ducts and vent stacks of the exhaust systems in ISU-100. No swipe measurements exceeded 0.2 % of the DCGL_w. The data demonstrate that virtually no removable contamination is present within ISU-100.

4.2 INDOOR SURVEY UNIT 101

4.2.1 Direct Beta Measurements on Building Surfaces

4.2.1.1 ISU-101 was surveyed from October 2000 through February 2004. 80 direct beta measurements were taken on the floor, ceiling, and wall surfaces. 37 of these were included in the systematic grid. Diagrams of the room layouts of the walls and floor with the beta measurements taken on them are presented in Appendix 2, Figure 4.2.

4.2.1.2 A summary of the direct measurement results is presented in Table 4.101.1 and shows that the maximum activity measured, net of background, was 71 dpm /100cm². The average value for the survey unit was -67 dpm/100cm². All values were less than 1% of the DCGL_w.

Table 4.101.1
ISU-101 Direct Measurements Summary
(Building Surfaces)

Matrix		Points	Avg Net Activity (dpm/100cm ²)	Max Net Activity (dpm/100cm ²)
Concrete	C	6	-111	-47
Counter Top	CT	2	-188	-81
Gypsum Board	GB	31	-39	71
Metal	M	9	-65	-30
Plaster	PL	4	-77	-31
Vinyl Tile	VT	28	-78	13

4.2.2 Direct Beta Measurements on Fixed Equipment

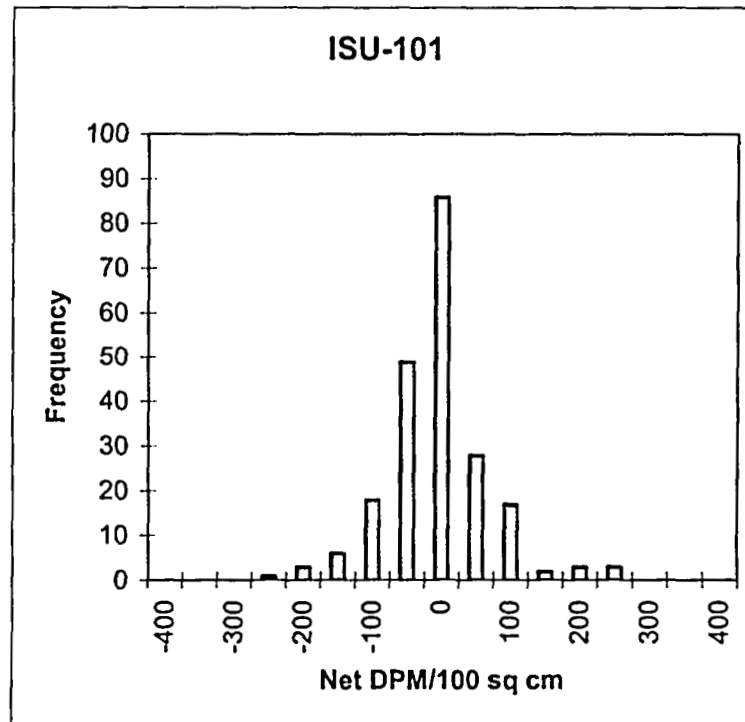
4.2.2.1 All items of fixed equipment assigned to ISU-101 (listed in Appendix 1) were surveyed by direct beta measurements. A summary of the measurements taken is provided in Table 4.101.2 sorted by matrix. The net values observed ranged from -225 to 236 dpm/100cm². All values were less than 2% of the DCGL_w.

Table 4.101.2
ISU-101 Direct Measurements Summary
(Fixed Equipment)

Matrix		Points	Avg Net Activity (dpm/100cm ²)	Max Net Activity (dpm/100cm ²)
Ceramic Tile	CT	4	-159	26
Counter Top	CTP	38	-9	82
Celotex	CTX	1	-174	-174
Metal	M	93	11	236

4.2.3 Direct Beta Measurement Distribution and Threshold Tests

- 4.2.3.1 A histogram of all the beta direct net activity values found in ISU-101 is provided in Figure 4.101.1 The distribution appears to have a single mode with the majority of the data centered at approximately 0 dpm/100cm². This is consistent with a normal distribution of background radioactivity possibly mixed with some residual radioactivity. All measurements were well below the DCGL_w.



Histogram of Net Direct Beta Measurements
Figure 4.101.1

- 4.2.3.2 All the direct measurements in the survey unit were analyzed using the Threshold Comparison Test Report (TCTR) and the results are presented

in Appendix 3 for ISU-101. The TCTR report contains a complete listing of all the beta direct measurements taken in the Final Status Survey within ISU-101 sorted by room, surface, and activity. The summary pages indicate that all tests described in the D Plan passed except for the background test. All tests required for release of a Class 2 survey unit were passed. A comparison of test results and requirements for release of the survey unit is presented in Table 4.101.3.

Table 4.101.3
Requirements for ISU Release^a

Test	Class 2	ISU-101
Min/Max	Not Required	P
Background	Not Required	F
DCGL _w	PASS	P
DCGL _{avg}	PASS	P
EMC	PASS	P
Sign Test for Paired Data	PASS	P

^a Class 1 or 2 survey units which pass Min/Max may be released without further consideration.

4.2.4 Beta Scan Measurements

- 4.2.4.1 Beta scans were performed on 100% of all room surfaces and fixed equipment. The beta scan results are presented in Appendix 4. No beta scan measurements in ISU-101 exceeded the scan threshold in Table 2.5.

4.2.5 Exhaust System Measurements

- 4.2.5.1 Additional measurements were collected from the exhaust system outlets on the roof of the building. Direct beta measurements on the exhaust systems were included in the fixed equipment analysis.
- 4.2.5.2 Gamma scan measurements were collected on the vent stacks and surrounding roof areas, including nearby roof drains, for ISU-101. All hoods in ISU-101, ISU-102 and ISU-104 are vented through one bag house filter and one vent stack. No gamma scan measurements exceeded the scan threshold listed in Section 2.9.
- 4.2.5.3 Swipes were collected for measurements of removable contamination on the blowers, ducts and vent stacks of the exhaust systems in ISU-101. No swipe measurements exceeded 0.2 % of the DCGL_w. The data demonstrate that virtually no removable contamination is present within ISU-101.

4.3 INDOOR SURVEY UNIT 102

4.3.1 Direct Beta Measurements on Building Surfaces

4.3.1.1 ISU-102 was surveyed from October 2000 through February 2004. 72 direct beta measurements were taken on the floor and wall surfaces. 32 of these were included in the systematic grid. Diagrams of the room layouts (walls and floor) with the beta measurements taken on them are presented in Appendix 2, Figure 4.3.

4.3.1.2 A summary of the direct measurement results is presented in Table 4.102.1 and shows that the maximum activity measured, net of background, was 52 dpm/100cm². The average value for the survey unit was -56 dpm/100cm². No direct beta measurements were observed on building surfaces in ISU-102 above 1% of the DCGL_w.

Table 4.102.1
ISU-102 Direct Measurements Summary
(Building Surfaces)

Matrix		Points	Avg Net Activity (dpm/100cm ²)	Max Net Activity (dpm/100cm ²)
Concrete	C	2	-64	-17
Counter Top	CTP	6	-106	18
Celotex	CTX	5	-88	7
Glass	G	2	-77	-70
Gypsum Board	GB	23	-25	52
Metal	M	9	-56	31
Plaster	PL	5	-79	-12
Vinyl Tile	VT	20	-61	42

4.3.2 Direct Beta Measurements on Fixed Equipment

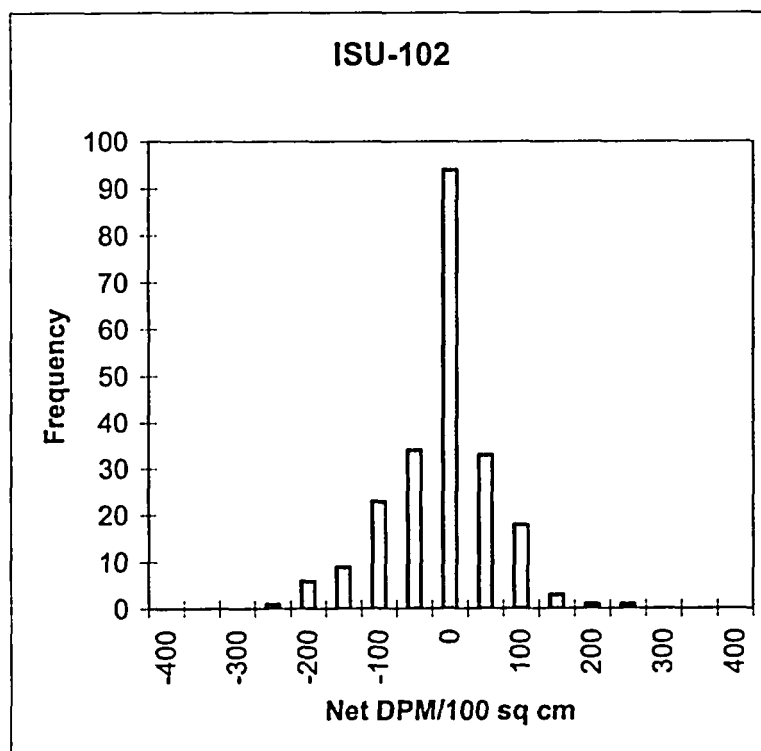
4.3.2.1 All items of fixed equipment assigned to ISU-102 (listed in Appendix 1) were surveyed by direct beta measurements. A summary of the measurements taken is provided in Table 4.102.2 sorted by matrix. All net values observed ranged from -248 to 236 dpm/100cm². All these values were less than 2% of the DCGL_w.

Table 4.102.2
ISU-102 Direct Measurements Summary
(Fixed Equipment)

Matrix		Points	Avg Net Activity (dpm/100cm ²)	Max Net Activity (dpm/100cm ²)
Counter Top	CTP	38	-55	153
Celotex	CTX	7	-106	-17
Metal	M	101	4	236
Plastic	P	5	-32	5

4.3.3 Direct Beta Measurement Distribution and Threshold Tests

- 4.3.3.1 A histogram of all the beta direct net activity values found in ISU-102 is provided in Figure 4.102.1. The distribution appears to have a single background distribution grouped about 0 dpm/100cm². This is consistent with a normal distribution of background radioactivity possibly mixed with some residual radioactivity. All measurements were well below the DCGL_w.



Histogram of Net Direct Beta Measurements
Figure 4.102.1

- 4.3.3.2 All the direct measurements in the survey unit were analyzed using the Threshold Comparison Test Report (TCTR) and the results are presented in Appendix 3 for ISU-102. The TCTR report contains a complete listing

of all the beta direct measurements taken in the Final Status Survey within ISU-102 sorted by room, surface, and activity. The summary pages indicate that all tests described in the D Plan passed except for the background test. All tests required for release of a Class 2 survey unit were passed. A comparison of test results and requirements for release of the survey unit is presented in Table 4.102.3.

Table 4.102.3
Requirements for ISU Release^a

Test	Class 2	ISU-101
Min/Max	Not Required ^a	P
Background	Not Required	F
DCGL _w	PASS	P
DCGL _{avg}	PASS	P
EMC	PASS	P
Sign Test for Paired Data	PASS	P

^a Class 1 or 2 survey units which pass Min/Max may be released without further consideration.

4.3.4 Beta Scan Measurements

4.3.4.1 Beta scans were performed on 100% of the room surfaces and fixed equipment. The beta scan results are presented in Appendix 4. No beta scan measurements in ISU-102 exceeded the scan threshold in Table 2.5.

4.3.5 Exhaust System Measurements

4.3.5.1 Additional measurements were collected from the exhaust system outlets on the roof of the building. Direct beta measurements on the exhaust systems were included in the fixed equipment analysis.

4.3.5.2 Gamma scan measurements were collected on the vent stacks and surrounding roof areas, including nearby roof drains, for ISU-102. All hoods in ISU-101, ISU-102 and ISU-104 are vented through one bag house filter and one vent stack. No gamma scan measurements exceeded the scan threshold listed in Section 2.9.

4.3.5.3 Swipes were collected for measurements of removable contamination on the blowers, ducts and vent stacks of the exhaust systems in ISU-102. No swipe measurements exceeded 0.2 % of the DCGL_w. The data demonstrate that virtually no removable contamination is present within ISU-102.

4.4 INDOOR SURVEY UNIT 103

4.4.1 Direct Beta Measurements on Building Surfaces

4.4.1.1 ISU-103 was surveyed from October 2000 through February 2004. 97 direct beta measurements were taken on the floor, ceiling, and wall surfaces. 29 of these were included in the systematic grid. Diagrams of the room layouts of the walls and floor with the beta measurements taken on them are presented in Appendix 2, Figures 4.4a and 4.4b.

4.4.1.2 A summary of the direct measurement results is presented in Table 4.103.1 and shows that the maximum activity measured, net of background, was 284 dpm/100cm². The average value for the survey unit was 16 dpm/100cm². All values were less than 3% of the DCGL_w.

Table 4.103.1
ISU-103 Direct Measurements Summary
(Building Surfaces)

Matrix		Points	Avg Net Activity (dpm/100cm ²)	Max Net Activity (dpm/100cm ²)
Concrete	C	1	11	11
Counter Top	CTP	1	63	63
Glass	G	1	-5	-5
Gypsum Board	GB	53	48	284
Metal	M	3	-21	22
Plaster	PL	8	-40	127
Vinyl Tile	VT	29	-28	61
Wood	W	1	136	136

4.4.2 Direct Beta Measurements on Fixed Equipment

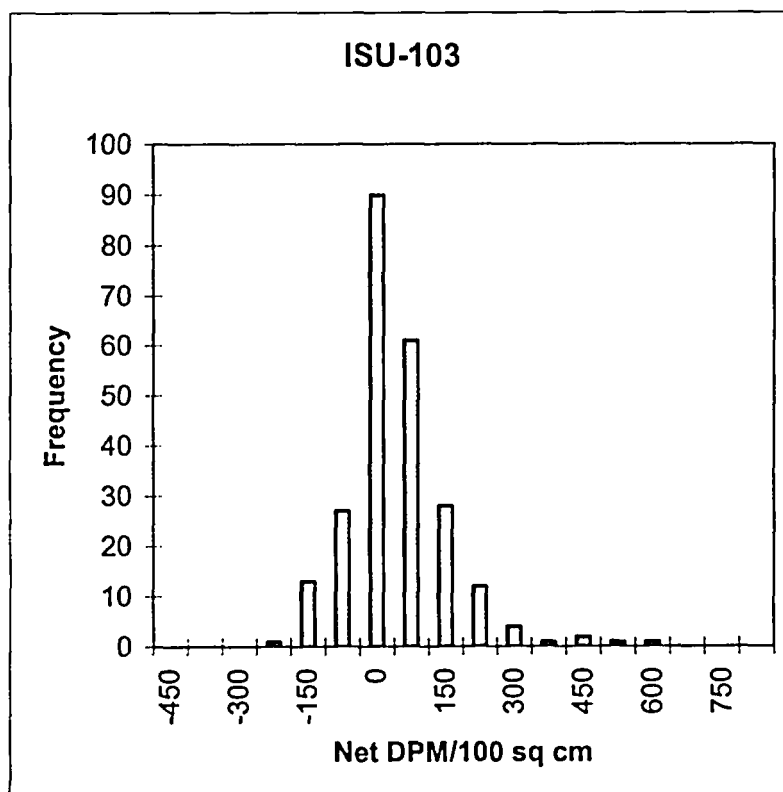
4.4.2.1 All items of fixed equipment assigned to ISU-103 (listed in Appendix 1) were surveyed by direct beta measurements. A summary of the measurements taken is provided in Table 4.103.2 sorted by matrix. The net values observed ranged from -240 to 596 dpm/100cm². All values were less than 5% of the DCGL_w.

Table 4.103.2
ISU-103 Direct Measurements Summary
(Fixed Equipment)

Matrix		Points	Avg Net Activity (dpm/100cm ²)	Max Net Activity (dpm/100cm ²)
Counter Top	CTP	53	-62	179
Glass	G	2	553	596
Metal	M	82	29	385
Plastic	P	6	63	91
Rubber	R	1	161	161

4.4.3 Direct Beta Measurement Distribution and Threshold Tests

- 4.4.3.1 A histogram of all the beta direct net activity values found in ISU-103 is provided in Figure 4.103.1. The distribution appears to have a single mode with the majority of the data centered around 0 dpm/100cm². This is consistent with a normal distribution of background radioactivity possibly mixed with some residual radioactivity. All measurements were well below the DCGL_w.



Histogram of Net Direct Beta Measurements

Figure 4.103.1

- 4.4.3.2 All the direct measurements in the survey unit were analyzed using the Threshold Comparison Test Report (TCTR) and the results are presented in Appendix 4 for ISU-103. The TCTR report contains a complete listing of all the beta direct measurements taken in the Final Status Survey within ISU-103 sorted by room, surface, and activity. The summary pages indicate that all tests described in the D Plan passed except for the background test. All tests required for release of a Class 2 survey unit were passed. A comparison of test results and requirements for release of the survey unit is presented in Table 4.103.3.

Table 4.103.3
Requirements for ISU Release^a

Test	Class 2	ISU-103
Min/Max	Not Required	P
Background	Not Required	F
DCGL _w	PASS	P
DCGL _{avg}	PASS	P
EMC	PASS	P
Sign Test for Paired Data	PASS	P

^a Class 1 or 2 survey units which pass Min/Max may be released without further consideration.

4.4.4 Beta Scan Measurements

- 4.4.4.1 Beta scans were performed on 100% of all room surfaces and fixed equipment. The beta scan results are presented in Appendix 4. No beta scan measurements in ISU-103 exceeded the scan threshold in Table 2.5.

4.4.5 Exhaust System Measurements

- 4.4.5.1 Additional measurements were collected from the exhaust system outlets on the roof of the building. Direct beta measurements on the exhaust systems were included in the fixed equipment analysis.
- 4.4.5.2 Gamma scan measurements were collected on the vent stacks and surrounding roof areas, including nearby roof drains, for ISU-103. No gamma scan measurements exceeded the scan threshold listed in Section 2.9.
- 4.4.5.3 Swipes were collected for measurements of removable contamination on the blowers, ducts and vent stacks of the exhaust systems in ISU-103. No swipe measurements exceeded 0.1 % of the DCGL_w. The data demonstrate that virtually no removable contamination is present within ISU-103.

4.5 INDOOR SURVEY UNIT 104

4.5.1 Direct Beta Measurements on Building Surfaces

4.5.1.1 ISU-104 was surveyed from December 2000 through February 2004. 87 direct beta measurements were taken on the floor, ceiling, and wall surfaces. 28 of these were included in the systematic grid. Diagrams of the room layouts of the walls and floor with the beta measurements taken on them are presented in Appendix 2, Figures 4.5a and 4.5b.

4.5.1.2 A summary of the direct measurement results is presented in Table 4.104.1 and shows that the maximum activity measured, net of background, was 157 dpm/100cm². The average value for the survey unit was -38 dpm/100cm². All values were less than 2% of the DCGLw.

Table 4.104.1
ISU-104 Direct Measurements Summary
(Building Surfaces)

Matrix		Points	Avg Net Activity (dpm/100cm ²)	Max Net Activity (dpm/100cm ²)
Ceramic Tile	CT	5	-244	-207
Counter Top	CTP	2	66	68
Celotex	CTX	1	-47	-47
Glass	G	3	-56	6
Gypsum Board	GB	46	-15	119
Metal	M	4	-96	-43
Plaster	PL	4	-58	1
Removable Flooring	RF	5	72	157
Vinyl Tile	VT	17	-62	-3

4.5.2 Direct Beta Measurements on Fixed Equipment

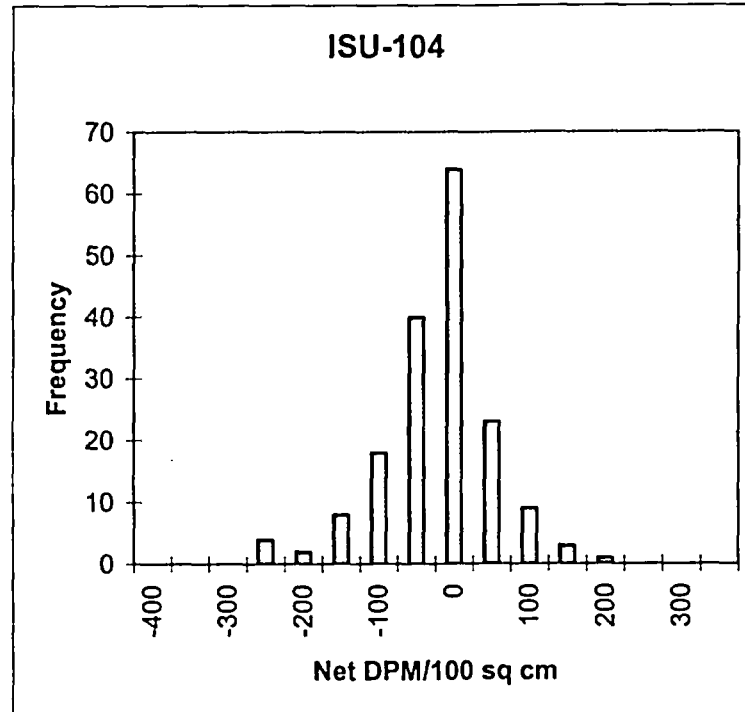
4.5.2.1 All items of fixed equipment assigned to ISU-104 (listed in Appendix 1) were surveyed by direct beta measurements. A summary of the measurements taken is provided in Table 4.104.2 sorted by matrix. The net values observed ranged from -227 to 122 dpm/100cm². All values were less than 1% of the DCGL_w.

Table 4.104.2
ISU-104 Direct Measurements Summary
(Fixed Equipment)

Matrix		Points	Avg Net Activity (dpm/100cm ²)	Max Net Activity (dpm/100cm ²)
Counter Top	CTP	24	-67	122
Metal	M	61	-39	82

4.5.3 Direct Beta Measurement Distribution and Threshold Tests

- 4.5.3.1 A histogram of all the beta direct net activity values found in ISU-104 is provided in Figure 4.104.1. The distribution appears to have a single mode centered around 0 dpm/100 cm², which is consistent with a normal distribution of background possibly mixed with some residual radioactivity. All measurements were well below the DCGL_w.



Histogram of Net Direct Beta Measurements
Figure 4.104.1

- 4.5.3.2 All the direct measurements in the survey unit were analyzed using the Threshold Comparison Test Report (TCTR) and the results are presented in Appendix 3 for ISU-104. The TCTR report contains a complete listing of all the beta direct measurements taken in the Final Status Survey within ISU-104 sorted by room, surface, and activity. The summary pages indicate that all tests described in the D Plan passed except for the background test. All tests required for release of a Class 2 survey unit were passed. A comparison of test results and requirements for release of the survey unit is presented in Table 4.104.3.

Table 4.104.3
Requirements for ISU Release^a

Test	Class 2	ISU-104
Min/Max	Not Required	P
Background	Not Required	F
DCGL _w	PASS	P
DCGL _{avg}	PASS	P
EMC	PASS	P
Sign Test for Paired Data	PASS	P

^a Class 1 or 2 survey units which pass Min/Max may be released without further consideration.

4.5.4 Beta Scan Measurements

- 4.5.4.1 Beta scans were performed on 100% of all room surfaces and fixed equipment. The beta scan results are presented in Appendix 4. No beta scan measurements in ISU-104 exceeded the scan threshold in Table 2.5.

4.5.5 Exhaust System Measurements

- 4.5.5.1 Additional measurements were collected from the exhaust system outlets on the roof of the building. Direct beta measurements on the exhaust systems were included in the fixed equipment analysis.
- 4.5.5.2 Gamma scan measurements were collected on the vent stacks and surrounding roof areas, including nearby roof drains, for ISU-104. All hoods in ISU-101, ISU-102 and ISU-104 are vented through one bag house filter and one vent stack. No gamma scan measurements exceeded the scan threshold listed in Section 2.9.
- 4.5.5.3 Swipes were collected for measurements of removable contamination on the blowers, ducts and vent stacks of the exhaust systems in ISU-104. No swipe measurements exceeded 0.2 % of the DCGL_w. The data demonstrate that virtually no removable contamination is present within ISU-104.

4.6 INDOOR SURVEY UNIT 105

4.6.1 Direct Beta Measurements on Building Surfaces

- 4.6.1.1 ISU-105 was surveyed from November 2000 through January 2003. 66 direct beta measurements were taken on the floor, ceiling, and wall surfaces. 30 of these were included in the systematic grid. Diagrams of the room layouts of the walls and floor with the beta measurements taken on them are presented in Appendix 2, Figure 4.6.

- 4.6.1.2 A summary of the direct measurement results is presented in Table 4.105.1 and shows that the maximum activity measured, net of background, was 127 dpm/100cm². The average value for the survey unit was -36 dpm/100cm². All values were less than 2% of the DCGL_w.

Table 4.105.1
ISU-105 Direct Measurements Summary
(Building Surfaces)

Matrix		Points	Avg Net Activity (dpm/100cm ²)	Max Net Activity (dpm/100cm ²)
Concrete	C	13	-80	-10
Gypsum Board	GB	15	27	127
Metal	M	7	8	68
Plaster	PL	11	-91	-3
Vinyl Tile	VT	20	-39	85

4.6.2 Direct Beta Measurements on Fixed Equipment

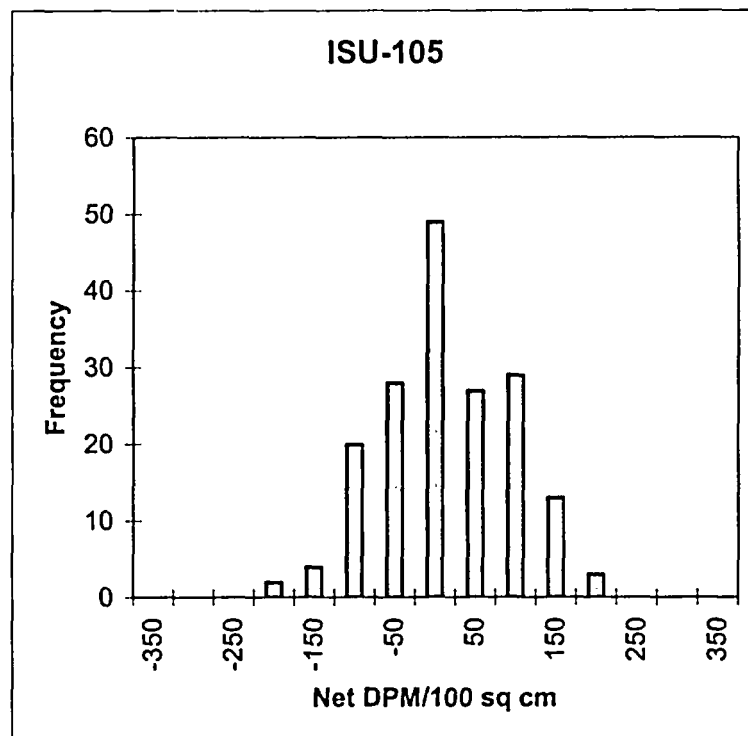
- 4.6.2.1 All items of fixed equipment assigned to ISU-105 (listed in Appendix 1) were surveyed by direct beta measurements. A summary of the measurements taken is provided in Table 4.105.2 sorted by matrix. The net values observed ranged from -226 to 160 dpm/100cm². All values were less than 2% of the DCGL_w.

Table 4.105.2
ISU-105 Direct Measurements Summary
(Fixed Equipment)

Matrix		Points	Avg Net Activity (dpm/100cm ²)	Max Net Activity (dpm/100cm ²)
Counter Top	CTP	42	-32	160
Metal	M	61	34	159
Plastic	P	6	62	128

4.6.3 Direct Beta Measurement Distribution and Threshold Tests

- 4.6.3.1 A histogram of all the beta direct net activity values found in ISU-105 is provided in Figure 4.105.1. The distribution appears to have a single mode with the majority of the data centered at approximately 0 dpm/100cm². This is consistent with a normal distribution of background radioactivity possibly mixed with some residual radioactivity. All measurements were well below the DCGL_w.



Histogram of Net Direct Beta Measurements
Figure 4.105.1

4.6.3.2 All the direct measurements in the survey unit were analyzed using the Threshold Comparison Test Report (TCTR) and the results are presented in Appendix 3 for ISU-105. The TCTR report contains a complete listing of all the beta direct measurements taken in the Final Status Survey within ISU-105 sorted by room, surface, and activity. The summary pages indicate that all tests described in the D Plan passed except for the background test. All tests required for release of a Class 2 survey unit were passed. A comparison of test results and requirements for release of the survey unit is presented in Table 4.105.3.

Table 4.105.3
Requirements for ISU Release^a

Test	Class 2	ISU-105
Min/Max	Not Required	P
Background	Not Required	F
DCGL _w	PASS	P
DCGL _{avg}	PASS	P
EMC	PASS	P
Sign Test for Paired Data	PASS	P

^a Class 1 or 2 survey units which pass Min/Max may be released without further consideration.

4.6.4 Beta Scan Measurements

4.6.4.1 Beta scans were performed on 100% of all room surfaces and fixed equipment. The beta scan results are presented in Appendix 4. No beta scan measurements in ISU-105 exceeded the scan threshold in Table 2.5.

4.6.5 Exhaust System Measurements

4.6.5.1 Additional measurements were collected from the exhaust system outlets on the roof of the building. Direct beta measurements on the exhaust systems were included in the fixed equipment analysis.

4.6.5.2 Gamma scan measurements were collected on the vent stacks and surrounding roof areas, including nearby roof drains, for ISU-105. No gamma scan measurements exceeded the scan threshold listed in Section 2.9.

4.6.5.3 Swipes were collected for measurements of removable contamination on the blowers, ducts and vent stacks of the exhaust systems in ISU-105. No swipe measurements exceeded 0.1 % of the DCGLw. The data demonstrate that virtually no removable contamination is present within ISU-105.

4.7 INDOOR SURVEY UNIT 106

4.7.1 Direct Beta Measurements on Building Surfaces

4.7.1.1 ISU-106 was surveyed from December 2000 through February 2004. 91 direct beta measurements were taken on the floor, ceiling, and wall surfaces. 43 of these were included in the systematic grid. Diagrams of the room layouts of the walls and floor with the beta measurements taken on them are presented in Appendix 2, Figure 4.7.

4.7.1.2 A summary of the direct measurement results is presented in Table 4.106.1 and shows that the maximum activity measured, net of background, was 315 dpm/100cm². The average value for the survey unit was -30 dpm/100cm². All values were less than 3% of the DCGLw.

Table 4.106.1
ISU-106 Direct Measurements Summary
(Building Surfaces)

Matrix		Points	Avg Net Activity (dpm/100cm ²)	Max Net Activity (dpm/100cm ²)
Concrete	C	42	-17	258
Concrete Block	CB	21	-72	62
Ceramic Tile	CT	12	22	195
Metal	M	10	-58	-3
Plaster	PL	5	-36	315
Wood	W	1	-53	-53

4.7.2 Direct Beta Measurements on Fixed Equipment

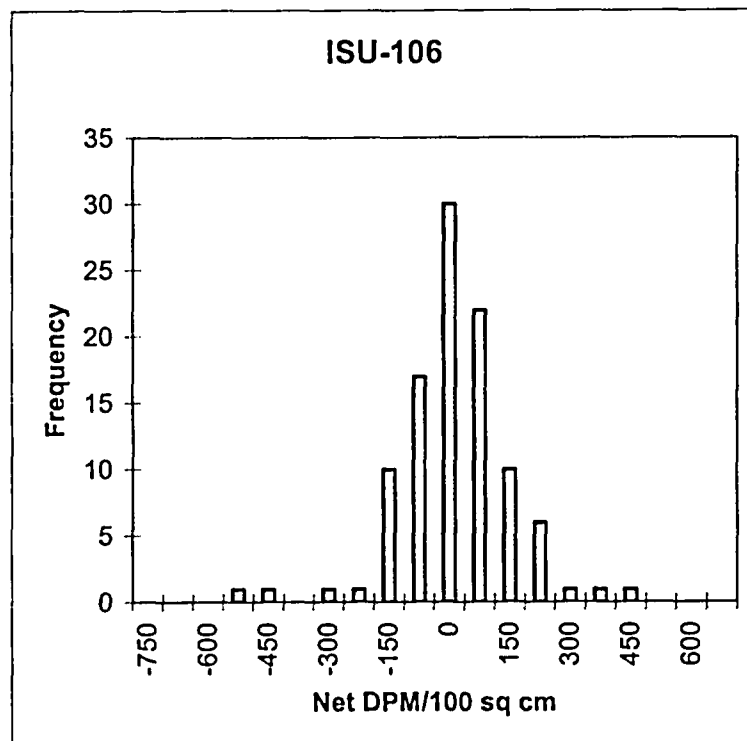
- 4.7.2.1 All items of fixed equipment assigned to ISU-106 (listed in Appendix 1) were surveyed by direct beta measurements. A summary of the measurements taken is provided in Table 4.106.2 sorted by matrix. The net values observed ranged from -187 to 425 dpm/100cm². All values were less than 4% of the DCGL_w.

Table 4.106.2
ISU-106 Direct Measurements Summary
(Fixed Equipment)

Matrix		Points	Avg Net Activity (dpm/100cm ²)	Max Net Activity (dpm/100cm ²)
Concrete	C	6	-158	-145
Metal	M	5	109	425

4.7.3 Direct Beta Measurement Distribution and Threshold Tests

- 4.7.3.1 A histogram of all the beta direct net activity values found in ISU-106 is provided in Figure 4.106.1. The distribution appears to have a single mode centered at approximately 0 dpm/100cm². This is consistent with a normal distribution of background radioactivity possible mixed with some residual radioactivity. All measurements were well below the DCGL_w.



Histogram of Net Direct Beta Measurements
Figure 4.106.1

- 4.7.3.2 All the direct measurements in the survey unit were analyzed using the Threshold Comparison Test Report (TCTR) and the results are presented in Appendix 3 for ISU-106. The TCTR report contains a complete listing of all the beta direct measurements taken in the Final Status Survey within ISU-106 sorted by room, surface, and activity. The summary pages indicate that all tests described in the D Plan passed except for the background test. All tests required for release of a Class 2 survey unit were passed. A comparison of test results and requirements for release of the survey unit is presented in Table 4.106.3.

Table 4.106.3
Requirements for ISU Release^a

Test	Class 2	ISU-106
Min/Max	Not Required	P
Background	Not Required	F
DCGL _w	PASS	P
DCGL _{avg}	PASS	P
EMC	PASS	P
Sign Test for Paired Data	PASS	P

4.7.4 Beta Scan Measurements

4.7.4.1 Beta scans were performed on 100% of all room surfaces and fixed equipment. The beta scan results are presented in Appendix 4. No beta scan measurements in ISU-106 exceeded the scan threshold in Table 2.5.

4.8 INDOOR SURVEY UNIT 107

4.8.1 Direct Beta Measurements on Building Surfaces

4.8.1.1 ISU-107, one of two Class 1 survey units, was surveyed from October 2000 and through October 2002. 64 direct beta measurements were taken on the floor, ceiling, and wall surfaces. 29 of these were included in the systematic grid. Diagrams of the room layouts of the walls and floor with the beta measurements taken on them are presented in Appendix 2, Figure 4.8.

4.8.1.2 A summary of the direct measurement results is presented in Table 4.107.1 and shows that the maximum activity measured, net of background, was 848 dpm/100cm². The average value for the survey unit was -1 dpm/100cm². All values were less than 7% of the DCGL_w.

Table 4.107.1
ISU-107 Direct Measurements Summary
(Building Surfaces)

Matrix		Points	Avg Net Activity (dpm/100cm ²)	Max Net Activity (dpm/100cm ²)
Concrete	C	35	77	848
Concrete Block	CB	18	-119	35
Counter Top	CTP	2	-51	-31
Glass	G	3	-126	-118
Metal	M	5	-27	97
Wood	W	1	3	3

4.8.2 Direct Beta Measurements on Fixed Equipment

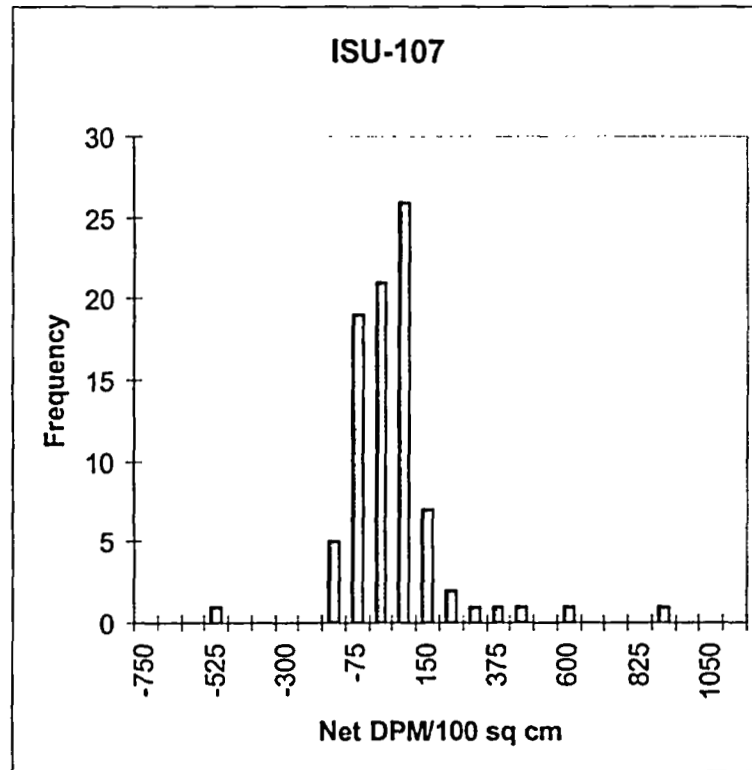
4.8.2.1 All items of fixed equipment assigned to ISU-107 (listed in Appendix 1) were surveyed by direct beta measurements. A summary of the measurements taken is provided in Table 4.107.2 sorted by matrix. The net values observed ranged from -105 to 318 dpm/100cm². All values were less than 3% of the DCGL_w.

Table 4.107.2
ISU-107 Direct Measurements Summary
(Fixed Equipment)

Matrix		Points	Avg Net Activity (dpm/100cm ²)	Max Net Activity (dpm/100cm ²)
Counter Top	CTP	3	-98	-93
Metal	M	19	36	318

4.8.3 Direct Beta Measurement Distribution and Threshold Tests

4.8.3.1 A histogram of all the beta direct net activity values found in ISU-107 is provided in Figure 4.107.1. The distribution appears to have a single mode centered at approximately 0 dpm/100cm². This is consistent with a normal distribution of background radioactivity possible mixed with some residual radioactivity. All measurements were well below the DCGL_w.



Histogram of Net Direct Beta Measurements
Figure 4.107.1

4.8.3.2 All the direct measurements in the survey unit were analyzed using the Threshold Comparison Test Report (TCTR) and the results are presented in Appendix 3 for ISU-107. The TCTR report contains a complete listing of all the beta direct measurements taken in the Final Status Survey within ISU-107 sorted by room, surface, and activity. The summary pages

indicate that all tests described in the D Plan passed except for the background test. All tests required for release of a Class 1 survey unit were passed. A comparison of test results and requirements for release of the survey unit is presented in Table 4.107.3.

Table 4.107.3
Requirements for ISU Release^a

Test	Class 1	ISU-107
Min/Max	Not Required	P
Background	Not Required	F
DCGL _w	Not Required	P
DCGL _{avg}	PASS	P
EMC	PASS	P
Sign Test for Paired Data	PASS	P

^a Class 1 or 2 survey units which pass Min/Max may be released without further consideration.

4.8.4 Beta Scan Measurements

4.8.4.1 Beta scans were performed on 100% of all room surfaces and fixed equipment. The beta scan results are presented in Appendix 4. No beta scan measurements in ISU-107 exceeded the scan threshold in Table 2.5.

4.9 INDOOR SURVEY UNIT 108

4.9.1 Direct Beta Measurements on Building Surfaces

4.9.1.1 ISU-108 was surveyed in October 2000 and June 2001. 43 direct beta measurements were taken on the floor, ceiling, and wall surfaces. 30 of these were included in the systematic grid. Diagrams of the room layouts of the walls and floor with the beta measurements taken on them are presented in Appendix 2, Figure 4.9.

4.9.1.2 A summary of the direct measurement results is presented in Table 4.108.1 and shows that the maximum activity measured, net of background, was 228 dpm/100cm². The average value for the survey unit was 24 dpm/100cm². All values were less than 2% of the DCGL_w.

Table 4.108.1
ISU-108 Direct Measurements Summary
(Building Surfaces)

Matrix		Points	Avg Net Activity (dpm/100cm ²)	Max Net Activity (dpm/100cm ²)
Concrete	C	9	42	142
Concrete Block	CB	28	18	228
Foam Insulation Board	F	6	27	58

4.9.2 Direct Beta Measurements on Fixed Equipment

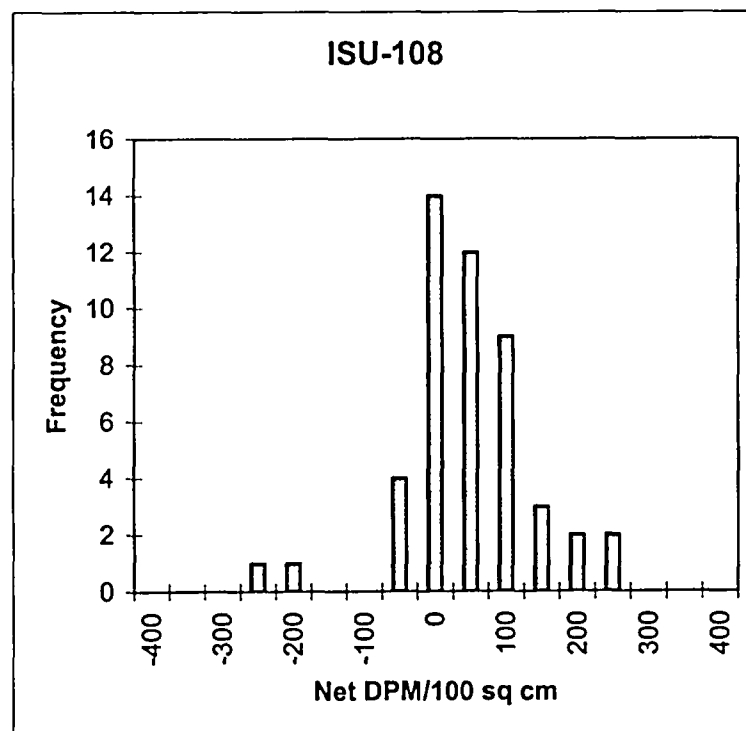
- 4.9.2.1 All items of fixed equipment assigned to ISU-108 (listed in Appendix 1) were surveyed by direct beta measurements. A summary of the measurements taken is provided in Table 4.108.2 sorted by matrix. The net values observed ranged from -73 to 91 dpm/100cm². All values were less than 1% of the DCGL_w.

Table 4.108.2
ISU-108 Direct Measurements Summary
(Fixed Equipment)

Matrix		Points	Avg Net Activity (dpm/100cm ²)	Max Net Activity (dpm/100cm ²)
Metal	M	5	-1	91

4.9.3 Direct Beta Measurement Distribution and Threshold Tests

- 4.9.3.1 A histogram of all the beta direct net activity values found in ISU-108 is provided in Figure 4.108.1. The distribution appears to have a single mode centered at approximately 50 dpm/100cm². This is consistent with a normal distribution of background radioactivity possible mixed with some residual radioactivity. All measurements were well below the DCGL_w.



Histogram of Net Direct Beta Measurements
Figure 4.108.1

- 4.9.3.2 All the direct measurements in the survey unit were analyzed using the Threshold Comparison Test Report (TCTR) and the results are presented in Appendix 3 for ISU-108. The TCTR report contains a complete listing of all the beta direct measurements taken in the Final Status Survey within ISU-108 sorted by room, surface, and activity. The summary pages indicate that all tests described in the D Plan passed except for the background test. All tests required for release of a Class 2 survey unit were passed. A comparison of test results and requirements for release of the survey unit is presented in Table 4.108.3.

Table 4.108.3
Requirements for ISU Release^a

Test	Class 2	ISU-108
Min/Max	Not Required	P
Background	Not Required	F
DCGL _w	PASS	P
DCGL _{avg}	PASS	P
EMC	PASS	P
Sign Test for Paired Data	PASS	P

^a Class 1 or 2 survey units which pass Min/Max may be released without further consideration.

4.9.4 Beta Scan Measurements

- 4.9.4.1 Beta scans were performed on 100% of all room surfaces and fixed equipment. The beta scan results are presented in Appendix 4. No beta scan measurements in ISU-108 exceeded the scan threshold in Table 2.5.

4.9.5 Gamma Scan Measurements

- 4.9.5.1 Because the ceiling surface of Room S-1 had been covered with foam insulation since 1987, the ceiling was also scanned with a 3"x1/2" NaI gamma detector. The scan results are presented in Appendix 4. No gamma scan readings were observed above the gamma scan threshold in Section 2.9.

4.10 INDOOR SURVEY UNIT 109

4.10.1 Direct Beta Measurements on Building Surfaces

- 4.10.1.1 ISU-109, the former vegetation sample prep lab in the TSSL building, was surveyed in October 2000 and June 2001. 65 direct beta measurements were taken on the floor, ceiling, and wall surfaces. 26 of these were included in the systematic grid. Diagrams of the room layouts of the walls and floor with the beta measurements taken on them are presented in Appendix 2, Figure 4.10.

4.10.1.2 A summary of the direct measurement results is presented in Table 4.109.1 and shows that the maximum activity measured, net of background, was 182 dpm/100cm². The average value for the survey unit was -45 dpm/100cm². All values were less than 2% of the DCGL_w.

Table 4.109.1
ISU-109 Direct Measurements Summary
(Building Surfaces)

Matrix		Points	Avg Net Activity (dpm/100cm ²)	Max Net Activity (dpm/100cm ²)
Foam Insulation	F	6	12	39
Gypsum Board	GB	33	-50	8
Metal	M	7	-48	-15
Vinyl Tile	VT	18	-48	182
Wood	W	1	-135	-135

4.10.2 Direct Beta Measurements on Fixed Equipment

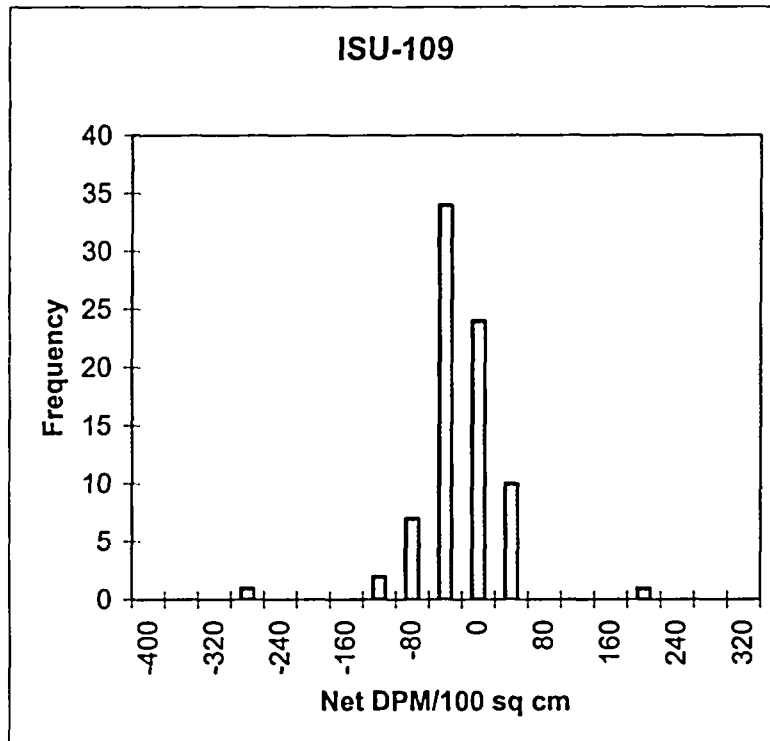
4.10.2.1 All items of fixed equipment assigned to ISU-109 (listed in Appendix 1) were surveyed by direct beta measurements. A summary of the measurements taken is provided in Table 4.109.2 sorted by matrix. The net values observed ranged from -281 to 19 dpm/100cm². All values were less than 1% of the DCGL_w.

Table 4.109.2
ISU-109 Direct Measurements Summary
(Fixed Equipment)

Matrix		Points	Avg Net Activity (dpm/100cm ²)	Max Net Activity (dpm/100cm ²)
Ceramic Tile	CT	1	-281	-281
Counter Top	CTP	1	-159	-159
Metal	M	12	-13	19

4.10.3 Direct Beta Measurement Distribution and Threshold Tests

4.10.3.1 A histogram of all the beta direct net activity values found in ISU-109 is provided in Figure 4.109.1. The distribution appears to have a single mode with the majority of the data centered at approximately -40 dpm/100cm² and is consistent with a normal distribution of background radioactivity mixed with some residual radioactivity above background. All measurements were well below the DCGL_w.



Histogram of Net Direct Beta Measurements
Figure 4.109.1

4.10.3.2 All the direct measurements in the survey unit were analyzed using the Threshold Comparison Test Report (TCTR) and the results are presented in Appendix 3 for ISU-109. The TCTR report contains a complete listing of all the beta direct measurements taken in the Final Status Survey within ISU-109 sorted by room, surface, and activity. The summary pages indicate that all tests described in the D Plan passed except for the background test. All tests required for release of a Class 2 survey unit were passed. A comparison of test results and requirements for release of the survey unit is presented in Table 4.109.3.

Table 4.109.3
Requirements for ISU Release^a

Test	Class 2	ISU-109
Min/Max	Not Required	P
Background	Not Required	F
DCGL _w	PASS	P
DCGL _{avg}	PASS	P
EMC	PASS	P
Sign Test for Paired Data	PASS	P

^a Class 1 or 2 survey units which pass Min/Max may be released without further consideration.

4.10.4 Beta Scan Measurements

4.10.4.1 Beta scans were performed on 100% of all room surfaces and fixed equipment. The beta scan results are presented in Appendix 4. No beta scan measurements in ISU-109 exceeded the scan threshold in Table 2.5.

4.10.5 Gamma Scan Measurements

4.10.5.1 Because the ceiling of the TSSL Prep Lab had been covered with foam insulation since 1987, the ceiling was also scanned with a 3"x1/2" NaI gamma detector. The scan results are presented in Appendix 4. No gamma scan readings were observed above the gamma scan threshold in Section 2.9.

4.11 INDOOR SURVEY UNIT 110

4.11.1 Direct Beta Measurements on Building Surfaces

4.11.1.1 ISU-110, one of two Class 1 survey units, was surveyed in December 2000 and June 2001. 42 direct beta measurements were taken on the floor, ceiling, and wall surfaces. 28 of these were included in the systematic grid. Diagrams of the room layouts of the walls and floor with the beta measurements taken on them are presented in Appendix 2, Figure 4.11.

4.11.1.2 A summary of the direct measurement results is presented in Table 4.110.1 and shows that the maximum activity measured, net of background, was 64 dpm/100cm². The average value for the survey unit was -43 dpm/100cm². All values were less than 1% of the DCGL_w.

Table 4.110.1
ISU-110 Direct Measurements Summary
(Building Surfaces)

Matrix		Points	Avg Net Activity (dpm/100cm ²)	Max Net Activity (dpm/100cm ²)
Glass	G	1	-60	-60
Gypsum Board	GB	16	-29	64
Metal	M	11	-47	-7
Vinyl Tile	VT	14	-56	10

4.11.2 Direct Beta Measurements on Fixed Equipment

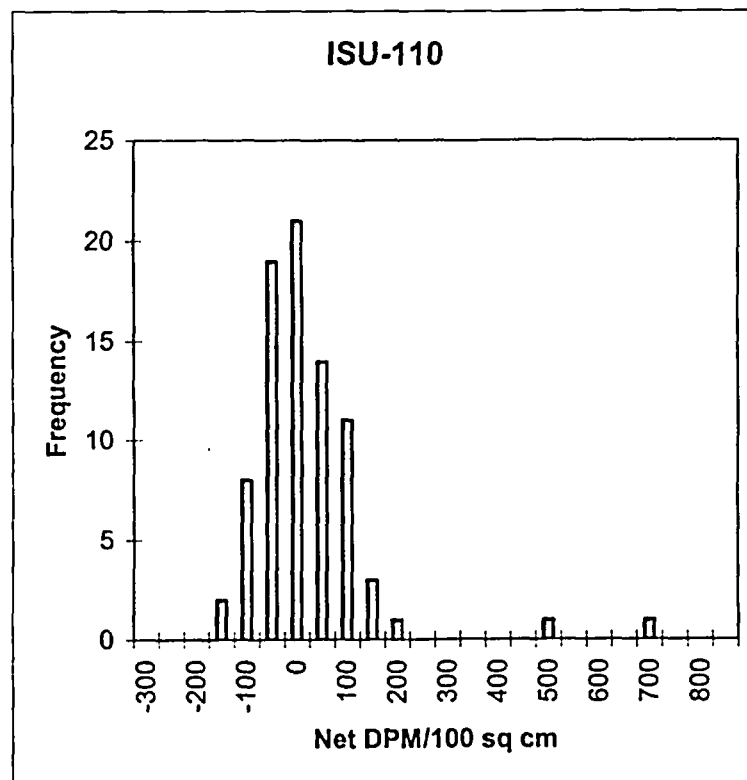
4.11.2.1 All items of fixed equipment assigned to ISU-110 (listed in Appendix 1) were surveyed by direct beta measurements. A summary of the measurements taken is provided in Table 4.110.2 sorted by matrix. The net values observed ranged from -159 to 669 dpm/100cm². All values were less than 6% of the DCGL_w.

Table 4.110.2
ISU-110 Direct Measurements Summary
(Fixed Equipment)

Matrix		Points	Avg Net Activity (dpm/100cm ²)	Max Net Activity (dpm/100cm ²)
Counter Top	CTP	7	-84	79
Celotex	CTX	12	-18	79
Metal	M	15	131	669
Plastic	P	5	58	104

4.11.3 Direct Beta Measurement Distribution and Threshold Tests

4.11.3.1 A histogram of all the beta direct net activity values found in ISU-110 is provided in Figure 4.110.1. The distribution appears to have a single mode with the majority of the data centered at approximately 0 dpm/100cm². This is consistent with a normal distribution of background radioactivity mixed with some residual radioactivity above background. All measurements were well below the DCGL_w.



Histogram of Net Direct Beta Measurements
Figure 4.110.1

4.11.3.2 All the direct measurements in the survey unit were analyzed using the Threshold Comparison Test Report (TCTR) and the results are presented

in Appendix 3 for ISU-110. The TCTR report contains a complete listing of all the beta direct measurements taken in the Final Status Survey within ISU-110 sorted by room, surface, and activity. The summary pages indicate that all tests described in the D Plan passed except for the background test. All tests required for release of a Class 2 survey unit were passed. A comparison of test results and requirements for release of the survey unit is presented in Table 4.110.3.

Table 4.110.3
Requirements for ISU Release^a

Test	Class 1	ISU-110
Min/Max	Not Required	P
Background	Not Required	F
DCGL _w	Not Required	P
DCGL _{avg}	PASS	P
EMC	PASS	P
Sign Test for Paired Data	PASS	P

^a Class 1 or 2 survey units which pass Min/Max may be released without further consideration.

4.11.4 Beta Scan Measurements

4.11.4.1 Beta scans were performed on 100% of all room surfaces and fixed equipment. The beta scan results are presented in Appendix 4. No beta scan measurements in ISU-110 exceeded the scan threshold in Table 2.5.

4.12 CHEMICAL DRAIN SYSTEMS

4.12.1 Two chemical drain systems at KMTC extend from in the main building to the east and west. They include both outdoor and indoor components and are designated SU EP-1 and SU EP-2. the results and discussion of the Final Status Surveys of these drain systems are covered in NEXTEP Tech Memo 0401²². Which is included as Appendix 5.

5 CONCLUSIONS

- 5.1 No direct beta survey values measured in any of the survey units exceeded 7% of the DCGL_w.
- 5.2 All tests required by the D Plan passed in all survey units except the background test. All tests required for Class 2 survey units passed for both Class 1 and Class 2 survey units.
- 5.3 All beta scan data values were less than the net scan threshold of 5,510 dpm/100cm².

²² NEXTEP Tech Memo 0401, Ibid.

- 5.4 Gamma scan surveys on foam insulation in SU-108 and 109 were less than twice background.
- 5.5 Gamma scan surveys on the exhaust systems in ISU-100, 101, 102, 103, 104, and 105 were less than twice background.
- 5.6 No swipe measurements which were collected on the laboratory exhaust systems exceeded 0.2% of the DCGLw.
- 5.7 No FSS measurements for the affected chemical drain systems, designated SU EP-1 and SU EP-2, exceeded the release limits for the survey unit.
- 5.8 SU EP-1 and SU EP-2 meet all criteria for nonrestricted release of a Class 2 survey unit.

6 RECOMMENDATIONS

- 6.1 All eleven indoor survey units should be released from the license.
- 6.2 The chemical drain systems, SU EP-1 and SU EP-2, should be released from the license.

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APPENDIX 3

Threshold Comparison Test Reports (TCTR)

KERR-MCGEE TECHNICAL CENTER DECOMMISSIONING PROJECT

Threshold Comparison Test Report - Buildings

Run Date: Saturday, April 24, 2004
Survey Unit Number: 100 Class: 2 Data Points: Beta Grid Type: R

SURVEY UNIT TABLE

Bldg	Rm	Surface	Fixed Equipment	Surface Area Included (sq. ft)	Remarks
Main	C-13	FCNSEW	Q1Q2Q3Q4Q5Q7	1447	Non-rectangle
Main	C-13a	FCNSEW		247	Closet in rm C-13
Main	C-17	FCNSEW	Q1Q2Q3Q4Q7	1479	
Main	C-19	FCNSEW	Q1Q2Q3Q7	2367	Includes 1/2 of the entry vestibule w E-12
Main	E-12	FCNSEW	Q1Q2Q3Q4Q7	1505	Includes 1/2 of entry vestibule w C-19
Main	E-14	FCNSEW	Q1Q2Q7	985	
Total Area				8030	

INITIALIZATION DATA

Measurement Types Selected: RG, PR, PG, BI, CH
Date Range: All
Number of Points: 235
Thresholds:

EMC: 31,000 DCGLw: 12,500

SURVEY UNIT TEST STATUS

Test Performed	Status	Matrix	Dpm/100cm2
Min/Max	Pass	Maximum Survey Value	VT 306
Background	Fail	Minimum Background	GB -37
DCGLw	Pass	Difference	343
DCGLavg	Pass	Average Activity	34
EMC	Pass	Average Below DCGL	34
Wilcoxon Rank Sum Test	N/A	Average Background	92
Sign Test for Paired Data	Pass		

KERR-MCGEE TECHNICAL CENTER DECOMMISSIONING PROJECT

Threshold Comparison Test Report - Buildings

THE FOLLOWING DATA POINTS FAILED THE EMC TEST:

NONE

THE FOLLOWING DATA POINTS FAILED THE DCGLw TEST:

NONE

THE FOLLOWING DATA POINTS FAILED THE BACKGROUND TEST:

Survey Unit # 100

Building: Main

Room	SFC	X (ft)	Y (ft)	Mtx	Meas. Type	Min	SID	Gross Activity (Dpm/100cm2)	Remarks	Exc	Res.
C-13	Q1	1.0	0.0	M	CH	0.5	395	284.0	hood	C	
C-13	Q2	3.0	0.0	M	BI	1	2160	59.0	Top of Blower	C	
C-13	Q2	1.0	0.0	P	BI	1	2158	48.0	Top of Duct Work	C	
C-13	Q2	2.0	0.0	P	BI	1	2159	13.0	Bottom of Duct Work	C	
C-13	Q4	7.0	0.0	M	BI	1	1709	80.0	Center Drawer, Top,	C	
C-13	Q4	6.0	0.0	M	BI	1	1708	58.0	1st Shelf	C	
C-13	Q4	4.0	0.0	M	BI	1	1707	15.0	Drawer, 2nd, N	C	
C-13	Q4	8.0	0.0	M	BI	1	1710	5.0	Front of Cabinet, S	C	
C-13	Q7	1.0	0.0	M	BI	1	1837	41.0	West Light	C	
C-13	Q7	2.0	0.0	M	BI	1	1838	34.0	Center, South Light	C	
C-17	N	10.6	8.1	GB	RG	1	1715	207.0		C	
C-17	Q1	3.0	0.0	M	BI	1	2163	113.0	Top of Blower	C	
C-17	Q1	1.0	0.0	P	BI	1	2161	102.0	Top of Duct Work	C	
C-17	Q1	2.0	0.0	P	BI	1	2162	67.0	Bottom of Duct Work	C	
C-17	Q2	4.0	0.0	M	BI	1	1723	3.0	N.W. Top Drawer	C	
C-17	Q3	4.0	0.0	M	BI	1	1733	55.0	S. End, Lower Shelf	C	
C-17	Q3	2.0	0.0	M	BI	1	1731	17.0	Bottom Shelf, North	C	
C-17	Q3	1.0	0.0	M	BI	1	1730	14.0	Top	C	
C-17	Q4	2.0	0.0	M	BI	1	1725	15.0	Top, Center	C	
C-17	Q7	3.0	0.0	M	BI	1	1842	44.0	Center, North Light	C	
C-17	Q7	2.0	0.0	M	BI	1	1841	15.0	West, South Light	C	
C-19	C	5.5	24.8	GB	RG	1	2268	179.0		C	
C-19	C	5.5	9.1	GB	RG	1	2267	135.0		C	
C-19	E	14.2	5.7	M	RG	1	1745	73.0	On Door	C	
C-19	F	6.0	9.1	C	RG	1	1747	249.0		C	
C-19	Q1	6.0	0.0	M	BI	1	1764	294.0	Casework, S. Bottom	C	
C-19	Q1	5.0	0.0	M	BI	1	1763	156.0	North, Bottom Shelf	C	
C-19	Q1	4.0	0.0	M	BI	1	1762	128.0	North End, Center,	C	
C-19	Q1	7.0	0.0	M	BI	1	1765	108.0	N., 2nd Shelf,	C	
C-19	Q1	3.0	0.0	M	BI	1	1761	97.0	Top, Center, W	C	
C-19	Q1	2.0	0.0	M	BI	1	1760	92.0	Bottom Shelf, S.W.	C	
C-19	Q1	1.0	0.0	M	BI	1	1759	80.0	Top, S.E. Corner	C	
C-19	Q2	5.0	0.0	M	BI	1	1756	296.0	Top, N.W. Corner	C	
C-19	Q2	2.0	0.0	M	BI	1	1753	171.0	Center, Top	C	
C-19	Q2	4.0	0.0	M	BI	1	1755	135.0	Top, N.E. Corner	C	

KERR-MCGEE TECHNICAL CENTER DECOMMISSIONING PROJECT

Threshold Comparison Test Report - Buildings

Room	SFC	X (ft)	Y (ft)	Mtx	Meas. Type	Min	SID	Gross Activity (Dpm/100cm ²)	Remarks	Exc	Res.
C-19	Q2	3.0	0.0	M	BI	1	1754	108.0	Bottom Shelf, E. Side	C	
C-19	Q2	6.0	0.0	M	BI	1	1758	101.0	Bottom Shelf, S.W.	C	
C-19	Q2	4.0	0.0	M	CH	0.5	440	85.0	sink	C	
C-19	Q2	1.0	0.0	M	BI	1	1752	44.0	S.E. Corner, Top	C	
C-19	Q3	2.0	0.0	M	BI	1	1739	46.0	3rd Drawer, North	C	
C-19	Q3	4.0	0.0	M	BI	1	1749	44.0	2nd Large Drawer,	C	
C-19	Q3	5.0	0.0	M	BI	1	1750	34.0	Top, Front Edge	C	
C-19	Q3	1.0	0.0	M	BI	1	1738	32.0	Top, Center	C	
C-19	Q7	2.0	0.0	M	BI	1	1844	268.0	Top of S.W. Light,	C	
C-19	Q7	1.0	0.0	M	BI	1	1843	185.0	Top of Light, N.W.	C	
C-19	Q7	4.0	0.0	P	BI	1	1846	9.0	PVC Duct Work	C	
E-12	E	8.1	6.6	M	RG	1	1816	41.0		C	
E-12	Q1	1.0	0.0	M	BI	1	1821	65.0		C	
E-12	Q1	3.0	0.0	M	BI	1	1822	53.0	Bottom Shelf, 2nd Bin	C	
E-12	Q1	4.0	0.0	M	BI	1	1823	9.0	2nd Shelf, 3rd Bin	C	
E-12	Q2	1.0	0.0	M	BI	1	1826	15.0	Top	C	
E-12	Q2	4.0	0.0	W	BI	1	1835	10.0	Front of Cabinet	C	
E-12	Q3	4.0	0.0	M	BI	1	1830	48.0	Top	C	
E-12	Q3	3.0	0.0	M	BI	1	1829	34.0	2nd Wide Drawer	C	
E-12	Q4	1.0	0.0	M	BI	1	2164	122.0	Top of Blower	C	
E-12	Q4	2.0	0.0	M	BI	1	2165	70.0	Bottom of Blower	C	
E-12	Q4	3.0	0.0	M	BI	1	2166	46.0	Blower Fan	C	
E-12	Q7	2.0	0.0	M	BI	1	1832	99.0	Ceiling A/C Vent	C	
E-12	Q7	3.0	0.0	M	BI	1	1833	89.0	N.E. Light, South End	C	
E-12	Q7	1.0	0.0	M	BI	1	1831	79.0	S.W. Light	C	
E-12	S	9.0	1.7	GB	RG	1	1819	142.0		C	
E-14	F	2.3	2.4	VT	CH	0.5	374	306.0		C	
E-14	F	2.7	2.4	VT	CH	0.5	375	199.0		C	

THE FOLLOWING DATA POINTS PASSED BACKGROUND, DCGLw, AND EMC SCREENING TESTS:

Survey Unit # 100

Building: Main

Room	SFC	X (ft)	Y (ft)	Mtx	Meas. Type	Min	SID	Gross Activity (Dpm/100cm ²)	Remarks	Exc	Res.
C-13	E	6.8	4.5	GB	CH	0.5	388	0.0			
C-13	E	17.9	4.9	GB	CH	0.5	387	0.0			
C-13	E	13.0	2.8	M	RG	1	1690	-29.0	Cabinet Front, Q5		
C-13	F	3.8	9.9	VT	RG	1	1691	58.0			
C-13	F	7.4	0.5	VT	CH	0.5	406	0.0	in doorway		
C-13	F	7.5	1.6	VT	CH	0.5	402	0.0			
C-13	F	11.1	3.3	VT	CH	0.5	405	0.0			
C-13	F	14.8	1.5	VT	CH	0.5	403	0.0			
C-13	F	8.2	18.4	VT	CH	0.5	404	0.0			
C-13	N	5.8	3.9	GB	CH	0.5	399	79.0			
C-13	N	9.1	3.9	GB	CH	0.5	400	76.0			
C-13	N	3.8	2.6	GB	RG	1	1692	58.0			
C-13	Q1	4.0	0.0	M	CH	0.5	398	0.0	hood		
C-13	Q1	3.0	0.0	M	CH	0.5	397	0.0	hood		
C-13	Q1	2.0	0.0	M	CH	0.5	396	0.0	hood		
C-13	Q2	2.0	0.0	M	CH	0.5	380	0.0	hood		
C-13	Q2	3.0	0.0	M	CH	0.5	381	0.0	hood		
C-13	Q2	4.0	0.0	M	CH	0.5	382	0.0	hood		
C-13	Q2	1.0	0.0	M	CH	0.5	379	0.0	hood		

KERR-MCGEE TECHNICAL CENTER DECOMMISSIONING PROJECT

Threshold Comparison Test Report - Buildings

Room	SFC	X (ft)	Y (ft)	Mtx	Meas. Type	Min	SID	Gross Activity (Dpm/100cm2)	Remarks	Exc	Res.
C-13	Q3	4.0	0.0	CT	BI	1	1702	258.0			
C-13	Q3	1.0	0.0	CT	BI	1	1699	181.0			
C-13	Q3	3.0	0.0	CT	BI	1	1701	149.0			
C-13	Q3	2.0	0.0	CT	BI	1	1700	-63.0			
C-13	Q4	2.0	0.0	CT	BI	1	1704	236.0	Top		
C-13	Q4	3.0	0.0	CT	BI	1	1705	183.0	Top		
C-13	Q4	1.0	0.0	CT	BI	1	1703	167.0	Top		
C-13	Q5	1.0	0.0	CT	BI	1	1694	243.0	Top of Counter Top		
C-13	Q5	4.0	0.0	CT	BI	1	1697	202.0	Top of Counter Top		
C-13	Q5	3.0	0.0	CT	BI	1	1696	200.0	Top of Counter Top		
C-13	Q5	2.0	0.0	CT	BI	1	1695	193.0	Top of Counter Top		
C-13	Q5	5.0	0.0	CT	BI	1	1698	53.0	Desk Top		
C-13	Q5	1.0	0.0	M	CH	0.5	383	0.0	sink		
C-13	Q5	2.0	0.0	M	CH	0.5	384	0.0	sink		
C-13	Q5	3.0	0.0	M	CH	0.5	385	0.0	sink		
C-13	Q5	4.0	0.0	M	CH	0.5	386	0.0	sink		
C-13	Q7	3.0	0.0	M	BI	1	1839	-9.0	A/C Supply Vent, S.W.		
C-13	S	10.3	3.8	GB	CH	0.5	390	0.0			
C-13	S	1.8	3.7	GB	CH	0.5	389	0.0			
C-13	S	13.8	6.6	GB	RG	1	1693	-29.0	Bulletin Board		
C-13	W	13.7	4.1	GB	CH	0.5	392	0.0			
C-13	W	5.7	3.8	GB	CH	0.5	391	0.0			
C-13a	F	0.1	5.2	VT	RG	1	1711	79.0			
C-13a	S	2.6	9.4	GB	RG	1	1712	41.0			
C-17	E	21.1	9.9	GB	RG	1	1714	22.0			
C-17	E	6.4	9.9	GB	RG	1	1713	3.0			
C-17	E	2.5	4.0	GB	CH	0.5	423	0.0			
C-17	E	16.9	3.8	GB	CH	0.5	424	0.0			
C-17	F	10.6	16.5	VT	RG	1	1718	39.0			
C-17	F	10.6	1.9	VT	RG	1	1717	17.0			
C-17	F	7.4	0.5	VT	CH	0.5	436	0.0	In Doorway		
C-17	F	10.0	3.0	VT	CH	0.5	435	0.0			
C-17	F	2.3	4.8	VT	CH	0.5	432	0.0			
C-17	F	4.0	16.8	VT	CH	0.5	433	0.0			
C-17	F	10.8	17.7	VT	CH	0.5	434	0.0			
C-17	N	3.3	3.6	GB	CH	0.5	429	13.0			
C-17	N	11.8	4.0	GB	CH	0.5	430	0.0			
C-17	Q1	1.0	0.0	M	CH	0.5	407	0.0	hood		
C-17	Q1	2.0	0.0	M	CH	0.5	408	0.0	hood		
C-17	Q1	3.0	0.0	M	CH	0.5	409	0.0	hood		
C-17	Q1	4.0	0.0	M	CH	0.5	410	0.0	hood		
C-17	Q2	3.0	0.0	M	CH	0.5	421	0.0	sink		
C-17	Q2	2.0	0.0	M	CH	0.5	420	0.0	sink		
C-17	Q2	4.0	0.0	M	CH	0.5	422	0.0	sink		
C-17	Q2	1.0	0.0	M	CH	0.5	419	0.0	sink		
C-17	Q2	5.0	0.0	CT	BI	1	1737	-21.0	Top		
C-17	Q2	1.0	0.0	M	BI	1	1720	-26.0	Top, South End		
C-17	Q2	6.0	0.0	M	BI	1	1735	-26.0	Bottom Shelf,		
C-17	Q2	3.0	0.0	M	BI	1	1722	-27.0	Top of Counter		
C-17	Q2	2.0	0.0	M	BI	1	1721	-34.0	Front, S. End		
C-17	Q3	5.0	0.0	CT	BI	1	1736	17.0	Top		
C-17	Q3	4.0	0.0	M	CH	0.5	418	0.0	sink		
C-17	Q3	3.0	0.0	M	CH	0.5	417	0.0	sink		
C-17	Q3	2.0	0.0	M	CH	0.5	416	0.0	sink		
C-17	Q3	1.0	0.0	M	CH	0.5	415	0.0	sink		
C-17	Q3	6.0	0.0	M	BI	1	1734	-14.0	Bottom Shelf,		
C-17	Q3	3.0	0.0	M	BI	1	1732	-17.0	Top		

KERR-MCGEE TECHNICAL CENTER DECOMMISSIONING PROJECT

Threshold Comparison Test Report - Buildings

Room	SFC	X (ft)	Y (ft)	Mtx	Meas. Type	Min	SID	Gross Activity (Dpm/100cm2)	Remarks	Exc	Res.
C-17	Q4	4.0	0.0	M	CH	0.5	414	0.0	sink		
C-17	Q4	5.0	0.0	M	BI	1	1728	0.0	Top		
C-17	Q4	1.0	0.0	M	CH	0.5	411	0.0	sink		
C-17	Q4	2.0	0.0	M	CH	0.5	412	0.0	sink		
C-17	Q4	3.0	0.0	M	CH	0.5	413	0.0	sink		
C-17	Q4	4.0	0.0	M	BI	1	1727	-3.0	Bottom Shelf, N. End		
C-17	Q4	1.0	0.0	M	BI	1	1724	-19.0	Top, S.E. Counter		
C-17	Q4	3.0	0.0	M	BI	1	1726	-53.0	Middle, Bottom Shelf		
C-17	Q4	6.0	0.0	M	BI	1	1729	-55.0	South End		
C-17	Q7	1.0	0.0	M	BI	1	1840	-48.0	East, South Light		
C-17	S	3.9	3.8	GB	CH	0.5	425	0.0			
C-17	S	9.3	2.9	GB	CH	0.5	426	0.0			
C-17	W	16.5	5.0	GB	RG	1	1716	51.0			
C-17	W	4.9	4.0	GB	CH	0.5	427	0.0			
C-17	W	14.2	3.8	GB	CH	0.5	428	0.0			
C-17	W	1.9	5.0	G	RG	1	1719	-63.0	Fell on CaseWork, Q1		
C-19	E	5.3	4.6	GB	CH	0.5	441	28.0			
C-19	E	28.8	4.1	GB	CH	0.5	442	0.0			
C-19	E	29.8	5.7	GB	RG	1	1741	-29.0			
C-19	F	6.0	24.8	C	RG	1	1748	123.0			
C-19	F	9.6	30.8	VT	CH	0.5	451	44.0			
C-19	F	2.4	6.2	VT	CH	0.5	454	16.0			
C-19	F	5.0	13.5	VT	CH	0.5	455	13.0			
C-19	F	3.0	0.5	VT	CH	0.5	453	0.0	In Doorway		
C-19	F	11.5	4.3	VT	CH	0.5	452	0.0			
C-19	N	12.0	4.1	GB	CH	0.5	448	0.0			
C-19	N	5.0	4.0	GB	CH	0.5	447	0.0			
C-19	N	6.0	0.4	GB	RG	1	1742	-27.0			
C-19	Q2	2.0	0.0	M	CH	0.5	438	0.0	sink		
C-19	Q2	3.0	0.0	M	CH	0.5	439	0.0	sink		
C-19	Q2	1.0	0.0	M	CH	0.5	437	0.0	sink		
C-19	Q3	6.0	0.0	CT	BI	1	1757	24.0	Desk		
C-19	Q3	3.0	0.0	M	BI	1	1740	-43.0	Top, East		
C-19	Q3	7.0	0.0	M	BI	1	1751	-50.0	Casework, Mid-Back,		
C-19	Q7	3.0	0.0	M	BI	1	1845	-34.0	Electrical Chaseway,		
C-19	S	12.2	4.3	GB	CH	0.5	444	0.0			
C-19	S	2.8	4.8	GB	CH	0.5	443	0.0			
C-19	S	10.9	5.5	M	RG	1	1746	-27.0	On Door		
C-19	W	9.1	9.6	GB	RG	1	1743	113.0			
C-19	W	24.8	9.6	GB	RG	1	1744	46.0			
C-19	W	4.4	4.2	GB	CH	0.5	445	32.0			
C-19	W	21.1	4.2	GB	CH	0.5	446	6.0			
E-12	C	4.3	14.9	GB	RG	1	2276	60.0			
E-12	E	4.5	3.5	GB	CH	0.5	464	0.0			
E-12	E	14.2	3.9	GB	CH	0.5	465	0.0			
E-12	F	7.7	14.9	GB	RG	1	1817	27.0	Fell on Q2		
E-12	F	4.5	17.7	VT	CH	0.5	475	0.0			
E-12	F	1.8	6.0	VT	CH	0.5	474	0.0			
E-12	F	7.4	22.0	VT	CH	0.5	476	0.0	In Doorway		
E-12	F	10.9	17.7	VT	CH	0.5	472	0.0			
E-12	F	7.9	4.0	VT	CH	0.5	473	0.0			
E-12	N	7.8	7.5	GB	RG	1	1818	55.0			
E-12	N	3.9	3.2	GB	CH	0.5	470	0.0			
E-12	N	11.7	3.0	GB	CH	0.5	471	0.0			
E-12	Q1	5.0	0.0	M	BI	1	1824	-10.0	Front of Shelves, South		
E-12	Q1	2.0	0.0	CT	BI	1	1825	-19.0			
E-12	Q2	3.0	0.0	W	BI	1	1834	-15.0	West Coverings		

KERR-MCGEE TECHNICAL CENTER DECOMMISSIONING PROJECT

Threshold Comparison Test Report - Buildings

Room	SFC	X (ft)	Y (ft)	Mtx	Meas. Type	Min	SID	Gross Activity (Dpm/100cm2)	Remarks	Exc	Res.
E-12	Q2	2.0	0.0	M	BI	1	1827	-29.0	Top		
E-12	Q3	1.0	0.0	CT	BI	1	1836	63.0	Top of Desk Area		
E-12	Q3	3.0	0.0	M	CH	0.5	462	0.0	sink		
E-12	Q3	2.0	0.0	M	CH	0.5	461	0.0	sink		
E-12	Q3	4.0	0.0	M	CH	0.5	463	0.0	sink		
E-12	Q3	1.0	0.0	M	CH	0.5	460	0.0	sink		
E-12	Q3	2.0	0.0	M	BI	1	1828	-39.0	Top		
E-12	Q4	4.0	0.0	M	CH	0.5	459	0.0	hood		
E-12	Q4	3.0	0.0	M	CH	0.5	458	0.0	hood		
E-12	Q4	2.0	0.0	M	CH	0.5	457	0.0	hood		
E-12	Q4	1.0	0.0	M	CH	0.5	456	0.0	hood		
E-12	S	2.5	4.0	GB	CH	0.5	466	0.0			
E-12	S	8.6	4.2	GB	CH	0.5	467	0.0			
E-12	W	14.9	8.9	GB	RG	1	1820	3.0			
E-12	W	4.7	4.0	GB	CH	0.5	468	0.0			
E-12	W	14.8	4.0	GB	CH	0.5	469	0.0			
E-14	C	8.3	9.4	GB	RG	1	1848	-55.0			
E-14	E	9.2	4.0	GB	CH	0.5	363	0.0			
E-14	E	2.6	4.0	GB	CH	0.5	362	0.0			
E-14	E	3.1	9.0	GB	RG	1	1850	-89.0			
E-14	F	4.1	10.6	VT	CH	0.5	372	9.0			
E-14	F	14.3	9.3	VT	CH	0.5	373	0.0			
E-14	F	2.0	12.1	VT	CH	0.5	376	0.0	In Doorway		
E-14	F	8.3	9.0	M	RG	1	1847	-132.0	Falls on Q1		
E-14	N	13.6	4.5	GB	CH	0.5	371	0.0			
E-14	N	5.0	4.1	GB	CH	0.5	370	0.0			
E-14	Q1	1.0	0.0	M	BI	1	1852	-38.0	S. End, Center		
E-14	Q1	2.0	0.0	M	BI	1	1853	-118.0	N. End, Center		
E-14	Q2	2.0	0.0	M	BI	1	1855	-67.0	Top		
E-14	Q2	1.0	0.0	M	BI	1	1854	-106.0	Top		
E-14	Q7	2.0	0.0	M	BI	1	1857	-55.0	W. Light, N. End		
E-14	Q7	1.0	0.0	M	BI	1	1856	-55.0	N. Return Air		
E-14	S	2.4	4.5	GB	CH	0.5	364	0.0			
E-14	S	10.3	4.0	GB	CH	0.5	365	0.0			
E-14	S	7.6	7.6	GB	RG	1	1849	-19.0			
E-14	W	9.0	8.4	GB	RG	1	1851	106.0			
E-14	W	3.2	4.7	GB	CH	0.5	368	13.0			
E-14	W	10.1	3.8	GB	CH	0.5	369	0.0			

KERR-MCGEE TECHNICAL CENTER DECOMMISSIONING PROJECT

Threshold Comparison Test Report - Buildings

Summary of Background Data and Thresholds Used in this Analysis

<i>Measurement Type:</i>		BK	<i>DCGL:</i> 12,500	<i>EMC:</i> 31,000		
<i>Matrix</i>	<i>Number of Data Points</i>	<i>Average Background</i>	<i>Sigma</i>	<i>Background Threshold (Tbk)</i>	<i>DCGLw Threshold (Td)</i>	<i>EMC Threshold (Tc)</i>
		(dpm /100 cm2)	(dpm /100 cm2)	(dpm /100 cm2)	(dpm /100 cm2)	(dpm /100 cm2)
C	15	143.0	47.2	237.3	12,737	31,237
CTP	15	126.7	91.4	309.6	12,810	31,310
G	0	0.0	0.0	0.0	12,500	31,000
GB	15	25.0	50.0	124.9	12,625	31,125
M	0	0.0	0.0	0.0	12,500	31,000
P	0	0.0	0.0	0.0	12,500	31,000
VT	15	71.9	42.1	156.0	12,656	31,156
W	0	0.0	0.0	0.0	12,500	31,000

**KERR-MCGEE TECHNICAL CENTER
DECOMMISSIONING PROJECT**
Threshold Comparison Test Report - Buildings

STATISTICAL TEST RESULTS

Run Date: 4/24/2004 10:24:03
Survey Unit Number 100 Class: 2
Selected Test: SIGN TEST FOR PAIRED DATA
Test Status Pass
Thresholds:
EMC 31,000 DCGL 12,500

DATA SUMMARY TABLE

34 Survey points processed and 5 matrices processed

S+ = 34 Wc = 22

***** The survey unit has passed the SIGN TEST FOR PAIRED DATA *****

KERR-MCGEE TECHNICAL CENTER DECOMMISSIONING PROJECT

Threshold Comparison Test Report - Buildings

Run Date: Saturday, April 24, 2004
 Survey Unit Number: 101 Class: 2 Data Points: Beta Grid Type: R

SURVEY UNIT TABLE

Bldg	Rm	Surface	Fixed Equipment	Surface Area Included (sq. ft)	Remarks
Main	C-29a	FCNSEW	Q0Q1Q3Q4Q5Q6	2687	Drop Ceiling
Main	C-29b	FCNSEW	Q0Q1Q2Q3Q4Q5	2695	Drop Ceiling
Main	C-33	FCNSEW	Q0Q1Q2Q3Q4	1612	Drop Ceiling
Total Area				6994	

INITIALIZATION DATA

Measurement Types Selected: RG, PR, PG, BI, CH
 Date Range: All
 Number of Points: 216
 Thresholds:
 EMC: 31,000 DCGLw: 12,500

SURVEY UNIT TEST STATUS

Test Performed	Status		Matrix	Dpm/100cm2
Min/Max	Pass	Maximum Survey Value	CT	280
Background	Fail	Minimum Background	GB	-37
DCGLw	Pass	Difference		317
DCGLavg	Pass	Average Activity		23
EMC	Pass	Average Below DCGL		23
Wilcoxon Rank Sum Test	N/A	Average Background		166
Sign Test for Paired Data	Pass			

KERR-MCGEE TECHNICAL CENTER DECOMMISSIONING PROJECT

Threshold Comparison Test Report - Buildings

THE FOLLOWING DATA POINTS FAILED THE EMC TEST:

NONE

THE FOLLOWING DATA POINTS FAILED THE DCGLw TEST:

NONE

THE FOLLOWING DATA POINTS FAILED THE BACKGROUND TEST:

Survey Unit # 101

Building: Main

Room	SFC	X (ft)	Y (ft)	Mtx	Meas. Type	Min	SID	Gross Activity (Dpm/100cm2)	Remarks	Exc	Res.
C-29a	Q1	5.0	0.0	M	BI	1	2170	215.0	Top of Exhaust	C	
C-29a	Q1	3.0	0.0	M	BI	1	2169	163.0	Top of Exhaust	C	
C-29a	Q1	4.0	0.0	M	BI	1	2240	159.0	Top of Exhaust	C	
C-29a	Q1	2.0	0.0	M	BI	1	2168	120.0	Top of Exhaust	C	
C-29a	Q1	1.0	0.0	M	BI	1	2167	96.0	Top of Exhaust	C	
C-29a	Q1	2.0	0.0	M	BI	1	1177	16.0	Back	C	
C-29a	Q4	9.0	0.0	M	CH	0.5	212	101.0	sm waste sink	C	
C-29a	Q4	4.0	0.0	M	CH	0.5	204	22.0	sink	C	
C-29a	Q5	4.0	0.0	M	CH	0.5	137	98.0	sink	C	
C-29a	Q5	8.0	0.0	M	CH	0.5	141	76.0	sink	C	
C-29a	Q5	5.0	0.0	M	CH	0.5	138	41.0	sink	C	
C-29a	Q5	3.0	0.0	M	CH	0.5	136	13.0	sink	C	
C-29a	Q5	1.0	0.0	M	CH	0.5	132	6.0	sink	C	
C-29b	Q1	4.0	0.0	M	BI	1	1215	100.0		C	
C-29b	Q2	1.0	0.0	M	CH	0.5	254	6.0	sink	C	
C-29b	Q2	6.0	0.0	M	CH	0.5	259	3.0	sink	C	
C-29b	Q3	9.0	0.0	M	CH	0.5	263	13.0	Small Waste Sink	C	
C-29b	Q4	1.0	0.0	M	CH	0.5	250	28.0		C	
C-29b	Q4	1.0	0.0	M	BI	1	1497	14.0	Bottom of Cabinet,	C	
C-29b	Q5	2.0	0.0	M	BI	1	1499	24.0	Bottom of Cabinet,	C	
C-33	Q1	4.0	0.0	M	BI	1	1576	236.0	Top Drawer, W. End	C	
C-33	Q1	5.0	0.0	M	BI	1	1577	92.0	Top Drawer, Center	C	
C-33	Q1	6.0	0.0	M	BI	1	1578	73.0	Bottom Drawer, E.	C	
C-33	Q2	4.0	0.0	M	CH	0.5	586	221.0	hood	C	
C-33	Q2	1.0	0.0	M	BI	1	1263	57.0	Front Top Inside	C	
C-33	Q3	1.0	0.0	M	BI	1	1264	49.0	Back Right Inside	C	
C-33	Q4	6.0	0.0	M	BI	1	1575	179.0	Under S.E. Sink	C	
C-33	Q4	4.0	0.0	M	BI	1	1573	80.0	Metal Drawer, #2 E.	C	
C-33	Q4	1.0	0.0	M	CH	0.5	591	77.0	sink	C	
C-33	Q4	5.0	0.0	M	BI	1	1574	75.0	Metal Drawer, #4 W.	C	

KERR-MCGEE TECHNICAL CENTER DECOMMISSIONING PROJECT

Threshold Comparison Test Report - Buildings

**THE FOLLOWING DATA POINTS PASSED BACKGROUND, DCGLw, AND EMC
SCREENING TESTS:**

Survey Unit # 101

Building: Main

Room	SFC	X (ft)	Y (ft)	Mtx	Meas. Type	Min	SID	Gross Activity (Dpm/100cm2)	Remarks	Exc	Res.
C-29a	C	11.9	2.5	M	RG	1	1175	-77.0			
C-29a	C	11.9	17.3	M	RG	1	1176	-139.0			
C-29a	E	3.9	4.0	GB	CH	0.5	149	0.0			
C-29a	E	23.4	3.3	GB	CH	0.5	150	0.0			
C-29a	E	9.8	8.8	GB	RG	1	1186	-96.0	No Wall Above 8'9"		
C-29a	E	24.7	8.8	GB	RG	1	1187	-136.0	No Wall Above 8'9"		
C-29a	F	5.0	17.3	CT	RG	1	1183	46.0	Middle of Q4		
C-29a	F	25.0	21.1	VT	CH	0.5	159	32.0			
C-29a	F	24.4	18.4	VT	CH	0.5	219	16.0	In Doorway		
C-29a	F	2.2	12.5	VT	CH	0.5	162	0.0			
C-29a	F	16.8	11.8	VT	CH	0.5	161	0.0			
C-29a	F	21.3	4.0	VT	CH	0.5	160	0.0			
C-29a	F	2.2	3.6	VT	CH	0.5	157	0.0			
C-29a	F	3.1	21.3	VT	CH	0.5	158	0.0			
C-29a	F	5.0	2.5	VT	RG	1	1178	-26.0			
C-29a	F	19.8	2.5	VT	RG	1	1179	-70.0			
C-29a	F	19.8	17.3	VT	RG	1	1180	-78.0			
C-29a	N	22.8	4.0	GB	CH	0.5	144	19.0			
C-29a	N	8.3	4.7	GB	CH	0.5	143	0.0			
C-29a	N	19.8	4.9	GB	RG	1	1185	-115.0			
C-29a	N	5.0	4.9	CT	RG	1	1184	-169.0	Inside Q1 - Hood		
C-29a	Q1	3.0	0.0	M	CH	0.5	217	0.0			
C-29a	Q1	2.0	0.0	M	CH	0.5	216	0.0			
C-29a	Q1	4.0	0.0	M	CH	0.5	218	0.0			
C-29a	Q1	1.0	0.0	M	CH	0.5	215	0.0			
C-29a	Q1	1.0	0.0	M	BI	1	1472	-103.0	Bottom of Hood		
C-29a	Q3	4.0	0.0	CT	BI	1	1188	209.0	CTP - Highest Readings		
C-29a	Q3	1.0	0.0	CT	BI	1	1458	157.0	N.E. End Counter Top		
C-29a	Q3	2.0	0.0	CT	BI	1	1459	73.0	N. End Counter Top		
C-29a	Q3	3.0	0.0	M	BI	1	1471	-103.0	E. Metal Cabinet, Top		
C-29a	Q4	9.0	0.0	CT	BI	1	1189	191.0	CTP - Highest Readings		
C-29a	Q4	1.0	0.0	CT	BI	1	1460	147.0	Top E. of Sink		
C-29a	Q4	3.0	0.0	CT	BI	1	1461	140.0	Top, N.E. Corner		
C-29a	Q4	7.0	0.0	CT	BI	1	1463	103.0	Top, S.W. End		
C-29a	Q4	5.0	0.0	CT	BI	1	1462	97.0	Top, S.E. End		
C-29a	Q4	2.0	0.0	M	CH	0.5	202	0.0	sink		
C-29a	Q4	7.0	0.0	M	CH	0.5	210	0.0	sink		
C-29a	Q4	8.0	0.0	M	CH	0.5	211	0.0	sink		
C-29a	Q4	6.0	0.0	M	CH	0.5	208	0.0	sink		

KERR-MCGEE TECHNICAL CENTER DECOMMISSIONING PROJECT

Threshold Comparison Test Report - Buildings

Room	SFC	X (ft)	Y (ft)	Mtx	Meas. Type	Min	SID	Gross Activity (Dpm/100cm2)	Remarks	Exc	Res.
C-29a	Q4	5.0	0.0	M	CH	0.5	207	0.0	sink		
C-29a	Q4	1.0	0.0	M	CH	0.5	201	0.0	Sink		
C-29a	Q4	3.0	0.0	M	CH	0.5	203	0.0	Sink		
C-29a	Q4	4.0	0.0	M	BI	1	1474	-79.0	Bottom Drawer, N.E.		
C-29a	Q4	6.0	0.0	M	BI	1	1475	-109.0	Drawer #4, S.E. End		
C-29a	Q4	8.0	0.0	M	BI	1	1476	-118.0	Top Drawer, S.W. End		
C-29a	Q4	2.0	0.0	M	BI	1	1473	-121.0	2nd Drawer, E. of Sink		
C-29a	Q5	3.0	0.0	CT	BI	1	1466	193.0	Just E. of Sink		
C-29a	Q5	1.0	0.0	CT	BI	1	1464	190.0	N.E. End of Counter		
C-29a	Q5	7.0	0.0	CT	BI	1	1468	181.0	S.W. End of Counter		
C-29a	Q5	10.0	0.0	CT	BI	1	1190	175.0	CTP - Highest Readings		
C-29a	Q5	2.0	0.0	CT	BI	1	1465	147.0	N. Center of Counter		
C-29a	Q5	6.0	0.0	CT	BI	1	1467	85.0	S.E. Counter Top,		
C-29a	Q5	6.0	0.0	M	CH	0.5	139	0.0	sink		
C-29a	Q5	7.0	0.0	M	CH	0.5	140	0.0	sink		
C-29a	Q5	9.0	0.0	M	CH	0.5	213	0.0	sm waste sink		
C-29a	Q5	2.0	0.0	M	CH	0.5	133	0.0	sink		
C-29a	Q5	5.0	0.0	M	BI	1	1478	-48.0	3rd Drawer, N.E.		
C-29a	Q5	4.0	0.0	M	BI	1	1477	-70.0	Just E. of Sink, Bottom		
C-29a	Q5	9.0	0.0	M	BI	1	1480	-72.0	4th Drawer, S.E. End		
C-29a	Q5	8.0	0.0	M	BI	1	1479	-80.0	Top Drawer, S. W. End		
C-29a	Q6	3.0	0.0	CT	BI	1	1470	178.0	S. End, Top		
C-29a	Q6	4.0	0.0	CT	BI	1	1191	159.0	CTP - Highest Readings		
C-29a	Q6	1.0	0.0	CT	BI	1	1469	149.0	N. end, Top		
C-29a	Q6	2.0	0.0	M	BI	1	2123	-96.0			
C-29a	S	19.5	3.5	GB	CH	0.5	148	0.0			
C-29a	S	5.2	3.6	GB	CH	0.5	147	0.0			
C-29a	W	4.1	3.8	PL	CH	0.5	145	79.0			
C-29a	W	14.5	4.6	PL	CH	0.5	146	16.0			
C-29a	W	2.5	9.8	C	RG	1	1181	-8.0			
C-29a	W	17.3	9.8	C	RG	1	1182	-49.0			
C-29b	C	9.5	3.8	M	RG	1	1206	-46.0			
C-29b	C	9.5	18.6	M	RG	1	1207	-53.0			
C-29b	C	24.3	18.6	M	RG	1	1209	-53.0			
C-29b	C	24.3	3.8	M	RG	1	1208	-69.0			
C-29b	E	4.3	3.3	GB	CH	0.5	272	0.0			
C-29b	E	24.0	3.3	GB	CH	0.5	273	0.0			
C-29b	E	23.5	7.7	GB	RG	1	1205	-91.0			
C-29b	E	8.8	7.7	GB	RG	1	1204	-97.0			
C-29b	F	19.6	7.6	VT	CH	0.5	285	25.0			
C-29b	F	19.9	23.8	VT	CH	0.5	280	22.0			
C-29b	F	6.2	3.6	VT	CH	0.58	286	22.0			
C-29b	F	20.2	16.6	VT	CH	0.5	283	13.0			
C-29b	F	24.5	13.0	VT	CH	0.5	288	0.0	In sliding doorway		
C-29b	F	5.6	16.0	VT	CH	0.5	284	0.0			
C-29b	F	4.4	23.9	VT	CH	0.5	281	0.0			
C-29b	F	17.4	18.6	VT	RG	1	1203	-32.0			
C-29b	F	2.6	18.6	VT	RG	1	1201	-53.0			
C-29b	F	17.4	3.8	VT	RG	1	1202	-94.0			

KERR-MCGEE TECHNICAL CENTER DECOMMISSIONING PROJECT

Threshold Comparison Test Report - Buildings

Room	SFC	X (ft)	Y (ft)	Mtx	Meas. Type	Min	SID	Gross Activity (Dpm/100cm2)	Remarks	Exc	Res.
C-29b	F	2.6	3.8	VT	RG	1	1200	-97.0			
C-29b	N	17.4	6.1	GB	RG	1	2270	13.0			
C-29b	N	2.6	6.1	GB	RG	1	2269	9.0			
C-29b	N	2.7	4.3	GB	CH	0.5	278	0.0			
C-29b	N	19.9	3.8	GB	CH	0.5	279	0.0			
C-29b	Q0	1.0	0.0	CT	BI	1	1214	118.0			
C-29b	Q1	2.0	0.0	CT	BI	1	1482	121.0	Top, S. End		
C-29b	Q1	1.0	0.0	CT	BI	1	1481	108.0	Top, N. End		
C-29b	Q1	3.0	0.0	M	BI	1	1490	-70.0	S. End, Bottom Shelf		
C-29b	Q2	1.0	0.0	CT	BI	1	1483	164.0	N. of Small Sink, Top		
C-29b	Q2	2.0	0.0	CT	BI	1	1484	128.0	E. of Lg. Sink, N. Top		
C-29b	Q2	5.0	0.0	CT	BI	1	1216	30.0			
C-29b	Q2	7.0	0.0	M	CH	0.5	260	0.0	sink		
C-29b	Q2	8.0	0.0	M	CH	0.5	261	0.0	sink		
C-29b	Q2	9.0	0.0	M	CH	0.5	262	0.0	Small Waste Sink		
C-29b	Q2	4.0	0.0	M	CH	0.5	257	0.0	sink		
C-29b	Q2	2.0	0.0	M	CH	0.5	255	0.0	sink		
C-29b	Q2	3.0	0.0	M	CH	0.5	256	0.0	sink		
C-29b	Q2	5.0	0.0	M	CH	0.5	258	0.0	sink		
C-29b	Q2	4.0	0.0	M	BI	1	1492	-56.0	Top Drawer, Middle		
C-29b	Q2	3.0	0.0	M	BI	1	1491	-72.0	Top Shelf, N.W. Cabinet		
C-29b	Q3	3.0	0.0	CT	BI	1	1487	169.0	N. of Lg. Sink, Top		
C-29b	Q3	7.0	0.0	CT	BI	1	1489	166.0	S. Side, E. of Lg. Sink		
C-29b	Q3	1.0	0.0	CT	BI	1	1485	147.0	Top, Desk, N.E. End		
C-29b	Q3	2.0	0.0	CT	BI	1	1486	138.0	Top, N. of Small Sink		
C-29b	Q3	6.0	0.0	CT	BI	1	1488	123.0	S. Side, Top, E. End		
C-29b	Q3	10.0	0.0	CT	BI	1	1217	100.0			
C-29b	Q3	5.0	0.0	M	CH	0.5	264	0.0	Sink		
C-29b	Q3	2.0	0.0	M	CH	0.5	269	0.0	Sink		
C-29b	Q3	1.0	0.0	M	CH	0.5	268	0.0	Sink		
C-29b	Q3	8.0	0.0	M	CH	0.5	267	0.0	Sink		
C-29b	Q3	7.0	0.0	M	CH	0.5	266	0.0	Sink		
C-29b	Q3	6.0	0.0	M	CH	0.5	265	0.0	Sink		
C-29b	Q3	3.0	0.0	M	CH	0.5	270	0.0	Sink		
C-29b	Q3	4.0	0.0	M	CH	0.5	271	0.0	Sink		
C-29b	Q3	8.0	0.0	M	BI	1	1495	-29.0	S. Bottom Cabinet, E. of		
C-29b	Q3	5.0	0.0	M	BI	1	1494	-53.0	Bottom Drawer, N.E.		
C-29b	Q3	9.0	0.0	M	BI	1	1496	-79.0	Top Drawer, S.E. End		
C-29b	Q3	4.0	0.0	M	BI	1	1493	-103.0	Top Drawer, N.W. End		
C-29b	Q4	2.0	0.0	CT	BI	1	1218	85.0			
C-29b	Q4	4.0	0.0	M	CH	0.5	253	0.0			
C-29b	Q4	3.0	0.0	M	CH	0.5	252	0.0			
C-29b	Q4	2.0	0.0	M	CH	0.5	251	0.0			
C-29b	Q5	3.0	0.0	CT	BI	1	1219	77.0			
C-29b	Q5	1.0	0.0	M	BI	1	1498	-2.0	Top, S.E. End		
C-29b	S	21.9	11.0	C	RG	1	1213	96.0			
C-29b	S	7.1	11.0	C	RG	1	1212	93.0			
C-29b	S	3.4	3.9	GB	CH	0.5	274	0.0			
C-29b	S	16.0	4.4	GB	CH	0.5	275	0.0			

KERR-MCGEE TECHNICAL CENTER DECOMMISSIONING PROJECT

Threshold Comparison Test Report - Buildings

Room	SFC	X (ft)	Y (ft)	Mtx	Meas. Type	Min	SID	Gross Activity (Dpm/100cm ²)	Remarks	Exc	Res.
C-29b	W	18.6	12.3	C	RG	1	1211	45.0			
C-29b	W	7.1	4.0	PL	CH	0.5	276	38.0			
C-29b	W	3.8	12.3	C	RG	1	1210	14.0			
C-29b	W	23.4	4.3	PL	CH	0.5	277	0.0			
C-33	C	8.3	7.0	M	RG	1	1256	-30.0			
C-33	C	23.1	7.0	M	RG	1	1255	-53.0			
C-33	E	9.2	4.2	GB	CH	0.5	576	96.0			
C-33	E	1.5	4.0	GB	CH	0.5	575	0.0			
C-33	E	3.3	6.5	M	RG	1	1254	-64.0	Front of Hood		
C-33	F	1.9	4.6	VT	CH	0.5	600	85.0			
C-33	F	0.1	6.0	VT	CH	0.5	601	37.0	In Doorway		
C-33	F	16.2	9.7	VT	RG	1	1253	21.0			
C-33	F	1.4	9.7	VT	RG	1	1252	8.0			
C-33	F	14.3	4.3	VT	CH	0.5	598	7.0			
C-33	F	19.8	6.0	VT	CH	0.5	597	0.0			
C-33	F	6.5	6.8	VT	CH	0.5	599	0.0			
C-33	N	19.1	4.8	GB	CH	0.5	582	66.0			
C-33	N	7.8	5.6	GB	CH	0.5	581	0.0			
C-33	N	16.2	8.5	GB	RG	1	1260	-5.0	No Wall Above 8'6"		
C-33	N	1.4	8.5	GB	RG	1	1259	-38.0	No Wall Above 8'6"		
C-33	Q1	2.0	0.0	CT	BI	1	1571	72.0	W. End, Top of Counter		
C-33	Q1	3.0	0.0	CT	BI	1	1572	58.0	W. End, Top of Counter		
C-33	Q1	1.0	0.0	CT	BI	1	1570	34.0	E. End, Top of Counter		
C-33	Q1	1.0	0.0	CT	BI	1	1261	-6.0	Top Center		
C-33	Q2	5.0	0.0	CT	PR	1	1268	280.0	North End - Top Inside		
C-33	Q2	4.0	0.0	CT	PR	1	1267	39.0	North End - Top Inside		
C-33	Q2	3.0	0.0	CT	PR	1	1266	31.0	North End - Top Inside		
C-33	Q2	2.0	0.0	CT	PR	1	1265	29.0	North End - Top Inside		
C-33	Q2	3.0	0.0	M	CH	0.5	585	0.0	hood		
C-33	Q2	1.0	0.0	M	CH	0.5	583	0.0	hood		
C-33	Q2	2.0	0.0	M	CH	0.5	584	0.0	hood		
C-33	Q3	3.0	0.0	M	CH	0.5	589	0.0	hood		
C-33	Q3	4.0	0.0	M	CH	0.5	590	0.0	hood		
C-33	Q3	1.0	0.0	M	CH	0.5	587	0.0	hood		
C-33	Q3	2.0	0.0	M	CH	0.5	588	0.0	hood		
C-33	Q4	3.0	0.0	CT	BI	1	1569	75.0			
C-33	Q4	2.0	0.0	CT	BI	1	1568	46.0			
C-33	Q4	1.0	0.0	CT	BI	1	1567	38.0			
C-33	Q4	1.0	0.0	CT	BI	1	1262	30.0	Front of Sink - Top		
C-33	Q4	4.0	0.0	M	CH	0.5	594	0.0	sink		
C-33	Q4	3.0	0.0	M	CH	0.5	593	0.0	sink		
C-33	Q4	5.0	0.0	M	CH	0.5	595	0.0	sink		
C-33	Q4	2.0	0.0	M	CH	0.5	592	0.0	sink		
C-33	S	11.0	3.6	GB	CH	0.5	577	0.0			
C-33	S	23.0	4.0	GB	CH	0.5	578	0.0			
C-33	S	8.3	5.2	GB	RG	1	1258	-32.0			
C-33	S	23.1	5.2	GB	RG	1	1257	-38.0			
C-33	W	0.3	3.8	GB	CH	0.5	579	0.0			
C-33	W	10.0	3.7	GB	CH	0.5	580	0.0			

KERR-MCGEE TECHNICAL CENTER DECOMMISSIONING PROJECT

Threshold Comparison Test Report - Buildings

Summary of Background Data and Thresholds Used in this Analysis

<i>Measurement Type:</i>		BK	<i>DCGL:</i>	12,500	<i>EMC:</i>	31,000
<i>Matrix</i>	<i>Number of Data Points</i>	<i>Average Background</i>	<i>Sigma</i>	<i>Background Threshold (Tbk)</i>	<i>DCGLw Threshold (Td)</i>	<i>EMC Threshold (Tc)</i>
		(dpm /100 cm2)	(dpm /100 cm2)	(dpm /100 cm2)	(dpm /100 cm2)	(dpm /100 cm2)
C	15	143.0	47.2	237.3	12,737	31,237
CT	25	253.6	38.6	330.8	12,831	31,331
CTP	15	126.7	91.4	309.6	12,810	31,310
CTX	25	292.5	63.0	418.5	12,918	31,418
GB	15	25.0	50.0	124.9	12,625	31,125
M	0	0.0	0.0	0.0	12,500	31,000
PL	15	110.5	84.2	278.9	12,779	31,279
VT	15	71.9	42.1	156.0	12,656	31,156

KERR-MCGEE TECHNICAL CENTER DECOMMISSIONING PROJECT

Threshold Comparison Test Report - Buildings

STATISTICAL TEST RESULTS

Run Date: 4/24/2004 10:43:29
Survey Unit Number 101 Class: 2
Selected Test: SIGN TEST FOR PAIRED DATA
Test Status Pass
Thresholds:

EMC 31,000 DCGL 12,500

DATA SUMMARY TABLE

37 Survey points processed and 5 matrices processed

S+ = 37 Wc = 24

***** The survey unit has passed the SIGN TEST FOR PAIRED DATA *****

KERR-MCGEE TECHNICAL CENTER DECOMMISSIONING PROJECT

Threshold Comparison Test Report - Buildings

Run Date: Saturday, April 24, 2004
Survey Unit Number: 102 Class: 2 Data Points: Beta Grid Type: R

SURVEY UNIT TABLE

Bldg	Rm	Surface	Fixed Equipment	Surface Area Included (sq. ft)	Remarks
Main	C-39	FCNSEW	Q0Q1Q2Q3	1156	Drop Ceiling
Main	E-22	FCNSEW	Q0Q1Q2	2007	Drop Ceiling
Main	E-30	FCNSEW	Q0Q1Q2Q3Q4Q5Q6Q7Q8	2502	Drop Ceiling
Total Area				5665	

INITIALIZATION DATA

Measurement Types Selected: RG, PR, PG, BI, CH
Date Range: All
Number of Points: 223
Thresholds:

EMC: 31,000 DCGLw: 12,500

SURVEY UNIT TEST STATUS

Test Performed	Status	Matrix	Dpm/100cm2
Min/Max	Pass	Maximum Survey Value CTX	299
Background	Fail	Minimum Background GB	-37
DCGLw	Pass	Difference	336
DCGLavg	Pass	Average Activity	24
EMC	Pass	Average Below DCGL	24
Wilcoxon Rank Sum Test	N/A	Average Background	145
Sign Test for Paired Data	Pass		

KERR-MCGEE TECHNICAL CENTER DECOMMISSIONING PROJECT

Threshold Comparison Test Report - Buildings

THE FOLLOWING DATA POINTS FAILED THE EMC TEST:

NONE

THE FOLLOWING DATA POINTS FAILED THE DCGLw TEST:

NONE

THE FOLLOWING DATA POINTS FAILED THE BACKGROUND TEST:

Survey Unit # 102

Building: Main

Room	SFC	X (ft)	Y (ft)	Mtx	Meas. Type	Min	SID	Gross Activity (Dpm/100cm2)	Remarks	Exc	Res.
C-39	C	1.8	1.8	M	RG	1	1769	31.0			C
C-39	Q0	3.0	0.0	M	BI	1	1774	236.0	Light Fixture, Top,		C
C-39	Q0	5.0	0.0	M	BI	1	1775	89.0	Return Air Vent, N.E.		C
C-39	Q0	4.0	0.0	P	BI	1	1776	5.0	Light Fixture, Bottom,		C
C-39	Q2	8.0	0.0	M	BI	1	1782	43.0	Bottom Drawer,		C
C-39	Q2	6.0	0.0	M	BI	1	1780	10.0	2nd Drawer, North		C
C-39	Q3	2.0	0.0	M	BI	1	1783	51.0	Top Shelf, Wall		C
E-22	Q0	6.0	0.0	M	BI	1	1454	89.0	Return Vent		C
E-22	Q1	2.0	0.0	M	CH	0.5	316	76.0	Sink		C
E-22	Q1	8.0	0.0	M	CH	0.5	313	66.0	Sink		C
E-22	Q1	4.0	0.0	M	CH	0.5	318	60.0	Sink		C
E-22	Q1	6.0	0.0	M	BI	1	1447	46.0	Top Drawer - South		C
E-22	Q1	7.0	0.0	M	CH	0.5	312	44.0	Sink		C
E-22	Q1	2.0	0.0	M	BI	1	1445	41.0	4th Drawer - East		C
E-22	Q1	4.0	0.0	M	BI	1	1446	38.0	Top Drawer - 3rd		C
E-22	Q1	8.0	0.0	M	BI	1	1448	17.0	Bottom Large South		C
E-22	Q1	5.0	0.0	M	CH	0.5	310	16.0	Sink		C
E-22	Q1	1.0	0.0	M	CH	0.5	315	13.0	Sink		C
E-22	Q1	3.0	0.0	M	CH	0.5	317	9.0	Sink		C
E-22	Q2	6.0	0.0	M	BI	1	1451	72.0	Bottom of Drawer -		C
E-22	Q2	4.0	0.0	M	BI	1	1449	68.0	Top Drawer - East		C
E-22	Q2	5.0	0.0	M	BI	1	1450	43.0	Bottom of Cabinet -		C
E-30	Q0	4.0	0.0	M	BI	1	1974	84.0	A/C Duct, S.W.		C
E-30	Q1	3.0	0.0	M	BI	1	1956	29.0	2nd Drawer, East		C
E-30	Q5	4.0	0.0	M	CH	0.5	1143	77.0	Sink		C
E-30	Q5	8.0	0.0	M	CH	0.5	1147	41.0	Sink		C
E-30	Q5	16.0	0.0	M	CH	0.5	1155	37.0	Sink		C
E-30	Q5	3.0	0.0	M	BI	1	1963	34.0	2nd Drawer, Center		C
E-30	Q5	12.0	0.0	M	CH	0.5	1151	22.0	Sink		C
E-30	Q5	6.0	0.0	M	CH	0.5	1145	18.0	Sink		C
E-30	Q8	3.0	0.0	M	BI	1	1968	12.0	Bottom of Cabinet		C

KERR-MCGEE TECHNICAL CENTER DECOMMISSIONING PROJECT

Threshold Comparison Test Report - Buildings

**THE FOLLOWING DATA POINTS PASSED BACKGROUND, DCGLw, AND EMC
SCREENING TESTS:**

Survey Unit # 102

Building: Main

Room	SFC	X (ft)	Y (ft)	Mtx	Meas. Type	Min	SID	Gross Activity (Dpm/100cm ²)	Remarks	Exc	Res.
C-39	C	1.8	15.8	CT	RG	1	2281	299.0			
C-39	E	8.3	4.3	C	RG	1	1771	126.0			
C-39	E	22.3	4.3	CT	RG	1	1768	12.0	Back of East Hood		
C-39	E	15.8	5.0	PL	CH	0.5	177	0.0			
C-39	E	5.8	4.2	PL	CH	0.5	176	0.0			
C-39	F	1.8	15.8	CT	RG	1	1767	103.0	On Top of Q2 Counter		
C-39	F	1.8	1.8	VT	RG	1	1766	63.0			
C-39	F	3.6	17.3	VT	CH	0.5	184	0.0			
C-39	F	2.5	2.7	VT	CH	0.5	183	0.0			
C-39	F	7.8	18.5	VT	CH	0.5	185	0.0			
C-39	F	6.3	9.2	VT	CH	0.5	186	0.0			
C-39	F	0.1	15.8	M	CH	0.5	200	0.0	In Doorway		
C-39	N	1.8	5.8	GB	RG	1	1770	26.0			
C-39	N	3.5	4.9	GB	CH	0.5	181	0.0			
C-39	N	8.8	4.8	GB	CH	0.5	182	0.0			
C-39	Q0	1.0	0.0	CT	BI	1	1772	275.0	Ceiling Tile, Top, S.W.		
C-39	Q0	2.0	0.0	CT	BI	1	1773	236.0	Ceiling Tile, Bottom		
C-39	Q1	3.0	0.0	M	CH	0.5	190	0.0			
C-39	Q1	4.0	0.0	M	CH	0.5	191	0.0			
C-39	Q1	2.0	0.0	M	CH	0.5	189	0.0			
C-39	Q1	1.0	0.0	M	CH	0.5	188	0.0			
C-39	Q1	4.0	0.0	M	BI	1	1778	-7.0	Bottom of Cabinet		
C-39	Q1	1.0	0.0	M	BI	1	1777	-60.0	Front Edge		
C-39	Q1	3.0	0.0	CT	BI	1	1788	-62.0	South Side		
C-39	Q1	2.0	0.0	CT	BI	1	1787	-73.0	Bottom		
C-39	Q2	2.0	0.0	CT	BI	1	1790	210.0	Top of Counter		
C-39	Q2	1.0	0.0	CT	BI	1	1789	149.0	Top of Counter		
C-39	Q2	4.0	0.0	CT	BI	1	1792	147.0	Top of Counter		
C-39	Q2	3.0	0.0	CT	BI	1	1791	29.0	Sink, Bottom, North		
C-39	Q2	1.0	0.0	M	CH	0.5	192	0.0			
C-39	Q2	2.0	0.0	M	CH	0.5	193	0.0			
C-39	Q2	5.0	0.0	M	CH	0.5	196	0.0			
C-39	Q2	6.0	0.0	M	CH	0.5	197	0.0			
C-39	Q2	7.0	0.0	M	CH	0.5	198	0.0			
C-39	Q2	4.0	0.0	M	CH	0.5	195	0.0			
C-39	Q2	3.0	0.0	M	CH	0.5	194	0.0			
C-39	Q2	8.0	0.0	M	CH	0.5	199	0.0			
C-39	Q2	5.0	0.0	M	BI	1	1779	-31.0	3rd Drawer, East		

KERR-MCGEE TECHNICAL CENTER DECOMMISSIONING PROJECT

Threshold Comparison Test Report - Buildings

Room	SFC	X (ft)	Y (ft)	Mtx	Meas. Type	Min	SID	Gross Activity (Dpm/100cm2)	Remarks	Exc	Res.
C-39	Q2	7.0	0.0	M	BI	1	1781	-46.0	2nd Drawer, South,		
C-39	Q3	4.0	0.0	CT	BI	1	1794	3.0	Top		
C-39	Q3	5.0	0.0	M	BI	1	1785	-14.0	Bottom Drawer		
C-39	Q3	1.0	0.0	CT	BI	1	1793	-21.0	Top		
C-39	Q3	3.0	0.0	M	BI	1	1784	-27.0	Bottom Shelf, Wall		
C-39	Q3	6.0	0.0	M	BI	1	1786	-31.0	Bottom, Cabinet Shelf		
C-39	S	3.7	2.2	PL	CH	0.5	178	0.0			
C-39	W	3.3	3.3	GB	CH	0.5	179	0.0			
C-39	W	17.2	5.1	GB	CH	0.5	180	0.0			
E-22	C	3.5	21.0	CT	RG	1	2278	223.0			
E-22	C	3.5	7.0	CT	RG	1	2277	185.0			
E-22	C	17.5	7.0	CT	RG	1	2279	176.0			
E-22	C	17.5	21.0	CT	RG	1	2280	138.0			
E-22	C	21.0	7.7	M	BI	1	1429	-63.0			
E-22	E	19.9	4.5	GB	CH	0.5	320	0.0			
E-22	E	2.1	4.4	GB	CH	0.5	319	0.0			
E-22	E	17.1	1.5	M	RG	1	1430	-80.0	Back of E. Counter Q2		
E-22	E	3.1	1.5	GB	RG	1	1433	-89.0			
E-22	F	24.4	18.0	VT	CH	0.5	331	114.0	In doorway		
E-22	F	20.5	3.3	VT	CH	0.5	330	47.0			
E-22	F	3.4	3.1	VT	CH	0.5	327	35.0			
E-22	F	3.3	18.6	VT	CH	0.5	328	6.0			
E-22	F	17.6	15.3	VT	CH	0.5	329	0.0			
E-22	F	12.0	21.0	VT	RG	1	1428	-26.0			
E-22	F	12.0	7.0	VT	RG	1	1427	-75.0			
E-22	N	4.8	4.2	GB	CH	0.5	325	0.0			
E-22	N	21.5	4.2	GB	CH	0.5	326	0.0			
E-22	Q0	4.0	0.0	CT	BI	1	1456	183.0	Ceiling Tile Bottom		
E-22	Q0	3.0	0.0	CT	BI	1	1455	161.0	Ceiling Tile Top		
E-22	Q0	2.0	0.0	M	BI	1	1453	-10.0	Top of Light Fixture		
E-22	Q0	5.0	0.0	P	BI	1	1457	-17.0	Light Fixture Bottom		
E-22	Q0	1.0	0.0	M	BI	1	1452	-58.0	Air Con Duct		
E-22	Q1	1.0	0.0	CT	BI	1	1436	280.0	Top		
E-22	Q1	7.0	0.0	CT	BI	1	1439	275.0	Top		
E-22	Q1	10.0	0.0	CT	BI	1	1441	267.0	Top		
E-22	Q1	9.0	0.0	CT	BI	1	1440	232.0	Top @ Sink		
E-22	Q1	3.0	0.0	CT	BI	1	1437	220.0	Top		
E-22	Q1	5.0	0.0	CT	BI	1	1438	53.0	Sink - Bottom - North		
E-22	Q1	6.0	0.0	M	CH	0.5	311	0.0	Sink		
E-22	Q2	2.0	0.0	CT	BI	1	1443	217.0	Top		
E-22	Q2	3.0	0.0	CT	BI	1	1444	179.0	Top		
E-22	Q2	1.0	0.0	CT	BI	1	1442	10.0	Top		
E-22	S	20.3	2.3	GB	CH	0.5	322	38.0			
E-22	S	3.3	4.1	GB	CH	0.5	321	0.0			
E-22	S	12.5	7.0	GB	RG	1	1432	-51.0			
E-22	W	4.5	4.3	PL	CH	0.5	323	98.0			
E-22	W	21.1	3.8	PL	CH	0.5	324	60.0			
E-22	W	7.0	2.0	C	RG	1	1434	32.0	Back of Q1, S. End		
E-22	W	21.0	2.0	M	RG	1	1431	-91.0	Back of Q1 Under N.		

KERR-MCGEE TECHNICAL CENTER DECOMMISSIONING PROJECT

Threshold Comparison Test Report - Buildings

Room	SFC	X (ft)	Y (ft)	Mtx	Meas. Type	Min	SID	Gross Activity (Dpm/100cm2)	Remarks	Exc	Res.
E-30	C	6.3	22.5	M	RG	1	1928	-48.0			
E-30	C	6.3	8.5	M	RG	1	1927	-67.0			
E-30	C	20.3	8.5	M	RG	1	1929	-79.0			
E-30	C	20.3	22.5	M	RG	1	1930	-104.0			
E-30	E	8.0	4.0	GB	CH	0.5	921	77.0			
E-30	E	27.0	3.0	GB	CH	0.5	922	22.0			
E-30	F	9.3	22.5	CT	RG	1	1923	145.0	Fell on Top of N.		
E-30	F	23.3	22.5	CT	RG	1	1924	121.0	Fel on Top of N.		
E-30	F	0.5	12.0	VT	CH	0.5	934	81.0	In Doorway		
E-30	F	11.7	15.6	VT	CH	0.5	931	55.0			
E-30	F	13.3	27.8	VT	CH	0.5	932	22.0			
E-30	F	0.5	27.0	VT	CH	0.5	933	18.0	In Doorway		
E-30	F	3.7	12.0	VT	CH	0.5	930	0.0			
E-30	F	11.8	3.0	VT	CH	0.5	929	0.0			
E-30	F	9.3	8.5	VT	RG	1	1921	-55.0			
E-30	F	23.3	8.5	VT	RG	1	1922	-65.0			
E-30	N	1.5	3.5	GB	CH	0.5	927	0.0			
E-30	N	9.3	4.0	GB	CH	0.5	928	0.0			
E-30	N	9.3	4.9	GB	RG	1	1931	-29.0			
E-30	N	23.3	4.9	CT	RG	1	1926	-121.0	In Back of N.E. Hood		
E-30	Q0	6.0	0.0	CT	BI	1	1971	166.0	Bottom of Ceiling Tile,		
E-30	Q0	1.0	0.0	CT	BI	1	1969	159.0	Top of Ceiling Tile		
E-30	Q0	5.0	0.0	CT	BI	1	1970	126.0	Top of Ceiling Tile, S.W.		
E-30	Q0	7.0	0.0	P	BI	1	1978	-27.0	Light Fixture, Bottom		
E-30	Q0	12.0	0.0	P	BI	1	1980	-39.0	Light Fixture, Bottom,		
E-30	Q0	10.0	0.0	M	BI	1	1976	-53.0	A/C Supply Duct, N.E.		
E-30	Q0	11.0	0.0	M	BI	1	1977	-67.0	Light Fixture, Top, N.E.		
E-30	Q0	8.0	0.0	P	BI	1	1979	-82.0	PVC A/C Duct, S.E.		
E-30	Q0	9.0	0.0	M	BI	1	1975	-84.0	A/C Duct, N.W.		
E-30	Q0	3.0	0.0	M	BI	1	1973	-96.0	S.W. Air Supply Vent,		
E-30	Q0	2.0	0.0	M	BI	1	1972	-121.0	Top of S.W. Light		
E-30	Q1	1.0	0.0	CT	BI	1	1935	149.0	Top		
E-30	Q1	2.0	0.0	CT	BI	1	1936	142.0	Top		
E-30	Q2	3.0	0.0	M	CH	0.5	905	0.0	hood		
E-30	Q2	1.0	0.0	M	CH	0.5	903	0.0	hood		
E-30	Q2	2.0	0.0	M	CH	0.5	904	0.0	hood		
E-30	Q2	4.0	0.0	M	CH	0.5	906	0.0	hood		
E-30	Q2	1.0	0.0	M	BI	1	1957	-44.0	Front Edge		
E-30	Q2	2.0	0.0	CT	BI	1	1937	-91.0	Bottom Inside		
E-30	Q2	3.0	0.0	CT	BI	1	1938	-103.0	East Side		
E-30	Q3	3.0	0.0	M	CH	0.5	909	0.0	hood		
E-30	Q3	2.0	0.0	M	CH	0.5	908	0.0	hood		
E-30	Q3	4.0	0.0	M	CH	0.5	910	0.0	hood		
E-30	Q3	1.0	0.0	M	CH	0.5	907	0.0	hood		
E-30	Q3	1.0	0.0	M	BI	1	1958	-53.0	Front Edge		
E-30	Q3	3.0	0.0	CT	BI	1	1940	-73.0	Beck Center		
E-30	Q3	2.0	0.0	CT	BI	1	1939	-91.0	Bottom		
E-30	Q4	6.0	0.0	CT	BI	1	1945	181.0	Top of Table		
E-30	Q4	4.0	0.0	CT	BI	1	1943	171.0	Center, Top		
E-30	Q4	1.0	0.0	CT	BI	1	1941	12.0	East Sink Bottom		
E-30	Q4	8.0	0.0	M	CH	0.5	918	0.0	sink		
E-30	Q4	6.0	0.0	M	CH	0.5	916	0.0	sink		
E-30	Q4	5.0	0.0	M	CH	0.5	915	0.0	sink		
E-30	Q4	4.0	0.0	M	CH	0.5	914	0.0	sink		

KERR-MCGEE TECHNICAL CENTER DECOMMISSIONING PROJECT

Threshold Comparison Test Report - Buildings

Room	SFC	X (ft)	Y (ft)	Mtx	Meas. Type	Min	SID	Gross Activity (Dpm/100cm ²)	Remarks	Exc	Res.
E-30	Q4	3.0	0.0	M	CH	0.5	913	0.0	sink		
E-30	Q4	2.0	0.0	M	CH	0.5	912	0.0	sink		
E-30	Q4	1.0	0.0	M	CH	0.5	911	0.0	sink		
E-30	Q4	7.0	0.0	M	CH	0.5	917	0.0	sink		
E-30	Q4	3.0	0.0	M	BI	1	1959	-3.0	Top Drawer		
E-30	Q4	7.0	0.0	M	BI	1	1960	-12.0	3rd Drawer, West		
E-30	Q4	8.0	0.0	M	BI	1	1961	-17.0	Top Shelf, West Side		
E-30	Q4	2.0	0.0	CT	BI	1	1942	-32.0	West Sink Bottom		
E-30	Q4	5.0	0.0	CT	BI	1	1944	-41.0	Small Sink, South		
E-30	Q5	5.0	0.0	CT	BI	1	1948	183.0	Top of Counter		
E-30	Q5	7.0	0.0	CT	BI	1	1949	167.0	Top of Counter		
E-30	Q5	10.0	0.0	M	CH	0.5	1149	0.0	Sink		
E-30	Q5	11.0	0.0	M	CH	0.5	1150	0.0	Sink		
E-30	Q5	9.0	0.0	M	CH	0.5	1148	0.0	Sink		
E-30	Q5	13.0	0.0	M	CH	0.5	1152	0.0	Sink		
E-30	Q5	1.0	0.0	M	CH	0.5	1140	0.0	Sink		
E-30	Q5	14.0	0.0	M	CH	0.5	1153	0.0	Sink		
E-30	Q5	15.0	0.0	M	CH	0.5	1154	0.0	Sink		
E-30	Q5	7.0	0.0	M	CH	0.5	1146	0.0	Sink		
E-30	Q5	3.0	0.0	M	CH	0.5	1142	0.0	Sink		
E-30	Q5	2.0	0.0	M	CH	0.5	1141	0.0	Sink		
E-30	Q5	5.0	0.0	M	CH	0.5	1144	0.0	Sink		
E-30	Q5	8.0	0.0	CT	BI	1	1950	-17.0	Sink Bottom, West		
E-30	Q5	1.0	0.0	CT	BI	1	1946	-21.0	West Side Sink		
E-30	Q5	2.0	0.0	M	BI	1	1962	-34.0	2nd Drawer		
E-30	Q5	4.0	0.0	CT	BI	1	1947	-39.0	Small Sink, North		
E-30	Q5	6.0	0.0	M	BI	1	1964	-44.0	Top Drawer, 3rd Row		
E-30	Q6	3.0	0.0	CT	BI	1	1952	178.0	Top of Counter		
E-30	Q6	2.0	0.0	CT	BI	1	1951	176.0	Top of Counter		
E-30	Q6	1.0	0.0	M	BI	1	1965	-24.0	Cabinet, Top Shelf		
E-30	Q7	2.0	0.0	M	CH	0.5	896	0.0	hood		
E-30	Q7	1.0	0.0	M	CH	0.5	895	0.0	hood		
E-30	Q7	4.0	0.0	M	CH	0.5	898	0.0	hood		
E-30	Q7	3.0	0.0	M	CH	0.5	897	0.0	hood		
E-30	Q7	1.0	0.0	M	BI	1	1966	-67.0	Front Edge		
E-30	Q7	2.0	0.0	CT	BI	1	1953	-75.0	Bottom Center		
E-30	Q7	3.0	0.0	CT	BI	1	1954	-121.0	Side, East		
E-30	Q8	1.0	0.0	M	CH	0.5	899	0.0	hood		
E-30	Q8	4.0	0.0	M	CH	0.5	902	0.0	hood		
E-30	Q8	3.0	0.0	M	CH	0.5	901	0.0	hood		
E-30	Q8	2.0	0.0	M	CH	0.5	900	0.0	hood		
E-30	Q8	2.0	0.0	CT	BI	1	1955	-31.0	Bottom Center		
E-30	Q8	1.0	0.0	M	BI	1	1967	-67.0	Front Edge		
E-30	S	12.5	4.0	GB	CH	0.5	923	0.0			
E-30	S	20.5	4.0	GB	CH	0.5	924	0.0			
E-30	S	15.3	5.5	GB	RG	1	1932	-5.0			
E-30	S	1.3	5.5	CT	RG	1	1925	-137.0	In Back of S.E. Hood		
E-30	W	2.7	4.0	GB	CH	0.5	925	4.0			
E-30	W	25.5	4.0	GB	CH	0.5	926	0.0			
E-30	W	22.5	4.8	G	RG	1	1934	-70.0	On N. Sliding Door		
E-30	W	8.5	4.8	G	RG	1	1933	-84.0	On S. Sliding Door		

KERR-MCGEE TECHNICAL CENTER DECOMMISSIONING PROJECT

Threshold Comparison Test Report - Buildings

Summary of Background Data and Thresholds Used in this Analysis

<i>Measurement Type:</i>		BK	<i>DCGL:</i> 12,500	<i>EMC:</i> 31,000		
<i>Matrix</i>	<i>Number of Data Points</i>	<i>Average Background</i>	<i>Sigma</i>	<i>Background Threshold (Tbk)</i>	<i>DCGLw Threshold (Td)</i>	<i>EMC Threshold (Tc)</i>
		(dpm /100 cm2)	(dpm /100 cm2)	(dpm /100 cm2)	(dpm /100 cm2)	(dpm /100 cm2)
C	15	143.0	47.2	237.3	12,737	31,237
CTP	15	126.7	91.4	309.6	12,810	31,310
CTX	25	292.5	63.0	418.5	12,918	31,418
G	0	0.0	0.0	0.0	12,500	31,000
GB	15	25.0	50.0	124.9	12,625	31,125
M	0	0.0	0.0	0.0	12,500	31,000
P	0	0.0	0.0	0.0	12,500	31,000
PL	15	110.5	84.2	278.9	12,779	31,279
VT	15	71.9	42.1	156.0	12,656	31,156

**KERR-MCGEE TECHNICAL CENTER
DECOMMISSIONING PROJECT**
Threshold Comparison Test Report - Buildings

STATISTICAL TEST RESULTS

Run Date: 4/24/2004 11:02:26
Survey Unit Number 102 Class: 2
Selected Test: SIGN TEST FOR PAIRED DATA
Test Status Pass
Thresholds:
EMC 31,000 DCGL 12,500

DATA SUMMARY TABLE

32 Survey points processed and 7 matrices processed

S+ = 32 Wc = 21

***** The survey unit has passed the SIGN TEST FOR PAIRED DATA *****

KERR-MCGEE TECHNICAL CENTER DECOMMISSIONING PROJECT

Threshold Comparison Test Report - Buildings

Run Date: Saturday, April 24, 2004
 Survey Unit Number: 103 Class: 2 Data Points: Beta Grid Type: R

SURVEY UNIT TABLE

<i>Bldg</i>	<i>Rm</i>	<i>Surface</i>	<i>Fixed Equipment</i>	<i>Surface Area Included (sq. ft)</i>	<i>Remarks</i>
Main	C-1	FCNSEW	Q1Q2Q7	1161	
Main	C-1a	FCNSEW	Q1Q7	715	
Main	E-10	FCNSEW	Q1Q2Q3Q4Q7	1505	
Main	E-2	FCNSEW	Q1Q2Q3Q4Q7	1735	
Main	E-8	FCNSEW	Q1Q2Q3Q4Q5Q7	1892	
Total Area				7008	

INITIALIZATION DATA

Measurement Types Selected: RG, PR, PG, BI, CH
 Date Range: All
 Number of Points: 241
 Thresholds:
 EMC: 31,000 DCGLw: 12,500

SURVEY UNIT TEST STATUS

<i>Test Performed</i>	<i>Status</i>	<i>Matrix</i>	<i>Dpm/100cm2</i>
Min/Max	Pass	Maximum Survey Value G	596
Background	Fail	Minimum Background GB	-37
DCGLw	Pass	Difference	633
DCGLavg	Pass	Average Activity	57
EMC	Pass	Average Below DCGL	57
Wilcoxon Rank Sum Test	N/A	Average Background	95
Sign Test for Paired Data	Pass		

KERR-MCGEE TECHNICAL CENTER DECOMMISSIONING PROJECT

Threshold Comparison Test Report - Buildings

THE FOLLOWING DATA POINTS FAILED THE EMC TEST:

NONE

THE FOLLOWING DATA POINTS FAILED THE DCGLw TEST:

NONE

THE FOLLOWING DATA POINTS FAILED THE BACKGROUND TEST:

Survey Unit # 103

Building: Main

Room	SFC	X (ft)	Y (ft)	Mtx	Meas. Type	Min	SID	Gross Activity (Dpm/100cm2)	Remarks	Exc	Res.
C-1	Q1	2.0	0.0	M	CH	0.5	1114	81.0	SINK	C	
C-1	Q1	1.0	0.0	M	CH	0.5	1113	70.0	Sink	C	
C-1	Q1	3.0	0.0	M	CH	0.5	1115	66.0	Sink	C	
C-1	Q1	4.0	0.0	M	CH	0.5	1116	63.0	Sink	C	
C-1	Q7	1.0	0.0	M	BI	1	1802	2.0	Lights	C	
C-1	W	2.2	4.5	GB	CH	0.5	538	206.0		C	
C-1	W	4.3	4.7	GB	CH	0.5	539	181.0		C	
C-1a	C	0.3	8.4	GB	BI	1	1325	182.0		C	
C-1a	C	9.7	8.4	GB	RG	1	2271	153.0		C	
C-1a	E	3.3	4.5	GB	CH	0.5	548	192.0		C	
C-1a	N	2.5	3.7	GB	CH	0.5	554	262.0		C	
C-1a	Q7	3.0	0.0	M	BI	1	1806	260.0	Return Vent	C	
C-1a	Q7	2.0	0.0	M	BI	1	1805	104.0	Vent	C	
C-1a	Q7	1.0	0.0	M	BI	1	1804	99.0	Lights - West	C	
C-1a	S	9.2	4.0	GB	CH	0.5	551	309.0		C	
C-1a	W	8.3	4.0	GB	CH	0.5	553	206.0		C	
C-1a	W	8.4	10.0	GB	RG	1	1326	182.0		C	
C-1a	W	2.5	4.5	GB	CH	0.5	552	158.0		C	
E-10	C	10.8	0.4	GB	RG	1	2262	197.0		C	
E-10	E	21.6	0.3	M	RG	1	1363	22.0	In Q1	C	
E-10	F	0.4	0.4	W	RG	1	1365	136.0	In Q3	C	
E-10	Q1	3.0	0.0	M	BI	1	2222	165.0	Top of Blower	C	
E-10	Q1	2.0	0.0	P	BI	1	2221	74.0	Bottom of Duct Work	C	
E-10	Q1	1.0	0.0	P	BI	1	2220	59.0	Top of Duct Work	C	
E-10	Q4	1.0	0.0	G	BI	1	1367	596.0	Sink Bottom	C	
E-10	Q4	2.0	0.0	G	BI	1	1368	509.0	Crockery	C	
E-10	Q4	3.0	0.0	M	CH	0.5	518	385.0	sink	C	
E-10	Q4	1.0	0.0	M	CH	0.5	516	379.0	sink	C	
E-10	Q4	2.0	0.0	M	CH	0.5	517	354.0	sink	C	

KERR-MCGEE TECHNICAL CENTER DECOMMISSIONING PROJECT

Threshold Comparison Test Report - Buildings

Room	SFC	X (ft)	Y (ft)	Mtx	Meas. Type	Min	SID	Gross Activity (Dpm/100cm2)	Remarks	Exc	Res.
E-10	Q4	4.0	0.0	M	CH	0.5	519	234.0	sink	C	
E-10	Q7	1.0	0.0	M	BI	1	1812	24.0	Lights	C	
E-10	Q7	2.0	0.0	M	BI	1	1813	8.0	Duct Work	C	
E-2	C	6.0	8.9	GB	RG	1	2263	148.0		C	
E-2	E	13.1	8.4	GB	RG	1	1333	139.0		C	
E-2	Q1	4.0	0.0	M	CH	0.5	296	79.0	Sink	C	
E-2	Q1	4.0	0.0	M	BI	1	1583	27.0	N. End, 2nd Drawer	C	
E-2	Q1	3.0	0.0	M	BI	1	1582	7.0	S. End, 4th Drawer	C	
E-2	Q2	7.0	0.0	R	BI	1	1592	161.0	2nd Shelf Top, N.	C	
E-2	Q2	8.0	0.0	M	BI	1	1587	26.0	N. Cabinet, Top,	C	
E-2	Q2	9.0	0.0	M	BI	1	1588	12.0	S. Cabinet, Top,	C	
E-2	Q3	3.0	0.0	M	BI	1	1340	190.0	Top	C	
E-2	Q3	4.0	0.0	M	CH	0.5	292	107.0		C	
E-2	Q3	3.0	0.0	M	CH	0.5	291	104.0		C	
E-2	Q3	1.0	0.0	P	BI	1	2214	91.0	Top of Duct Work	C	
E-2	Q3	2.0	0.0	M	BI	1	2216	39.0	Top of Blower	C	
E-2	Q3	2.0	0.0	M	CH	0.5	290	35.0		C	
E-2	Q3	2.0	0.0	M	BI	1	1338	12.0	Bottom Right	C	
E-2	Q3	3.0	0.0	P	BI	1	2215	11.0	Bottom of Duct Work	C	
E-2	Q4	3.0	0.0	M	BI	1	1591	41.0	2nd Drawer, E Side	C	
E-2	Q7	1.0	0.0	M	BI	1	1810	14.0	Lights	C	
E-2	S	7.2	6.6	GB	RG	1	1334	164.0		C	
E-8	Q2	2.0	0.0	M	BI	1	2219	130.0	Top of Blower	C	
E-8	Q2	2.0	0.0	M	BI	1	1620	121.0	Bottom Center, Hood	C	
E-8	Q2	4.0	0.0	M	BI	1	1354	93.0	Bottom	C	
E-8	Q2	3.0	0.0	M	BI	1	1353	86.0	Top	C	
E-8	Q2	1.0	0.0	P	BI	1	2217	78.0	Top of Duct Work	C	
E-8	Q2	3.0	0.0	P	BI	1	2218	65.0	Bottom of Duct Work	C	
E-8	Q4	7.0	0.0	M	BI	1	1355	22.0	Top Drawer	C	
E-8	Q5	7.0	0.0	M	BI	1	1351	57.0	Top Drawer	C	
E-8	Q5	6.0	0.0	M	BI	1	1628	22.0	2nd Drawer, S.E.	C	
E-8	Q7	1.0	0.0	M	BI	1	1811	11.0	Lights	C	

THE FOLLOWING DATA POINTS PASSED BACKGROUND, DCGLw, AND EMC SCREENING TESTS:

Survey Unit # 103

Building: Main

Room	SFC	X (ft)	Y (ft)	Mtx	Meas. Type	Min	SID	Gross Activity (Dpm/100cm2)	Remarks	Exc	Res.
C-1	C	10.0	6.3	GB	RG	1	2272	123.0			
C-1	E	7.5	4.5	GB	CH	0.5	535	77.0			
C-1	E	1.7	4.3	GB	CH	0.5	534	22.0			
C-1	E	3.3	8.5	GB	RG	1	1316	-68.0			
C-1	F	5.0	0.5	VT	CH	0.5	546	133.0	in doorway		
C-1	F	7.5	2.5	VT	CH	0.5	543	122.0			
C-1	F	10.0	4.5	VT	CH	0.5	544	114.0			
C-1	F	18.3	4.3	VT	CH	0.5	545	103.0			

KERR-MCGEE TECHNICAL CENTER DECOMMISSIONING PROJECT

Threshold Comparison Test Report - Buildings

Room	SFC	X (ft)	Y (ft)	Mtx	Meas. Type	Min	SID	Gross Activity (Dpm/100cm ²)	Remarks	Exc	Res.
C-1	F	2.3	2.0	VT	CH	0.5	542	96.0			
C-1	F	16.2	6.3	VT	RG	1	1318	79.0			
C-1	F	0.6	6.3	VT	RG	1	1317	26.0			
C-1	N	4.7	4.2	GB	CH	0.5	540	85.0			
C-1	N	19.2	3.7	GB	CH	0.5	541	48.0			
C-1	Q1	3.0	0.0	CT	BI	1	1502	207.0	Top, E. End		
C-1	Q1	1.0	0.0	CT	BI	1	1500	171.0	E. of Sink, Top		
C-1	Q1	2.0	0.0	CT	BI	1	1501	162.0	Top, Center		
C-1	Q1	6.0	0.0	CT	BI	1	1323	-19.0	Sink Bottom		
C-1	Q2	3.0	0.0	CT	BI	1	1505	191.0	Top, E. End		
C-1	Q2	2.0	0.0	CT	BI	1	1504	-44.0	Desk, W. End		
C-1	Q2	1.0	0.0	CT	BI	1	1503	-63.0	Center, Desk		
C-1	Q2	4.0	0.0	CT	BI	1	1324	-113.0			
C-1	Q7	2.0	0.0	M	BI	1	1803	-31.0	Vents		
C-1	S	3.0	3.0	GB	CH	0.5	536	66.0			
C-1	S	15.8	4.0	GB	CH	0.5	537	48.0			
C-1	S	22.6	8.5	GB	RG	1	1320	10.0	No Ceiling Above 8ft		
C-1	S	7.1	8.5	GB	RG	1	1319	-56.0	No Ceiling Above 8ft 6		
C-1a	E	9.0	4.5	GB	CH	0.5	549	107.0			
C-1a	F	7.8	6.3	VT	CH	0.5	558	122.0			
C-1a	F	5.6	8.4	VT	RG	1	1327	104.0			
C-1a	F	3.5	2.7	VT	CH	0.5	556	99.0			
C-1a	F	2.0	5.5	VT	CH	0.5	559	0.0			
C-1a	F	5.4	8.4	VT	CH	0.5	557	0.0			
C-1a	N	6.3	4.0	GB	CH	0.5	555	85.0			
C-1a	Q1	2.0	0.0	CT	BI	1	1328	10.0			
C-1a	Q1	1.0	0.0	CT	BI	1	1508	2.0	Top, N.E.		
C-1a	Q1	2.0	0.0	CT	BI	1	1509	-7.0	Top, N. End		
C-1a	Q1	4.0	0.0	CT	BI	1	1510	-50.0	Top, S.		
C-1a	S	4.4	7.2	GB	RG	1	1374	62.0			
C-1a	S	2.5	4.4	GB	CH	0.5	550	37.0			
E-10	C	5.0	0.4	GB	BI	1	1360	105.0			
E-10	C	10.8	15.9	GB	RG	1	2266	91.0			
E-10	C	5.0	15.9	GB	BI	1	1361	65.0			
E-10	E	5.8	3.4	GB	CH	0.5	520	0.0			
E-10	E	13.2	4.0	GB	CH	0.5	521	0.0			
E-10	E	6.1	0.3	GB	RG	1	1362	-27.0			
E-10	F	0.4	15.9	CT	RG	1	1366	190.0			
E-10	F	10.2	4.6	VT	CH	0.5	529	0.0			
E-10	F	4.2	3.8	VT	CH	0.5	530	0.0			
E-10	F	3.9	15.8	VT	CH	0.5	531	0.0			
E-10	F	7.4	22.0	VT	CH	0.5	533	0.0	In doorway		
E-10	F	10.3	16.3	VT	CH	0.5	528	0.0			
E-10	N	4.8	3.7	GB	CH	0.5	526	0.0			
E-10	N	11.1	3.7	GB	CH	0.5	527	0.0			
E-10	N	0.4	9.5	M	RG	1	1364	-69.0	Door		
E-10	Q1	1.0	0.0	M	CH	0.5	508	0.0	hood		
E-10	Q1	3.0	0.0	M	CH	0.5	510	0.0	hood		
E-10	Q1	2.0	0.0	M	CH	0.5	509	0.0	hood		

KERR-MCGEE TECHNICAL CENTER DECOMMISSIONING PROJECT

Threshold Comparison Test Report - Buildings

Room	SFC	X (ft)	Y (ft)	Mtx	Meas. Type	Min	SID	Gross Activity (Dpm/100cm2)	Remarks	Exc	Res.
E-10	Q1	4.0	0.0	M	CH	0.5	511	0.0	hood		
E-10	Q1	2.0	0.0	M	BI	1	1371	-8.0			
E-10	Q2	1.0	0.0	CT	BI	1	1629	208.0	N.E. Corner		
E-10	Q2	3.0	0.0	CT	BI	1	1630	195.0	S. End, Top		
E-10	Q2	5.0	0.0	CT	BI	1	1370	118.0			
E-10	Q2	4.0	0.0	M	CH	0.5	515	0.0	sink		
E-10	Q2	3.0	0.0	M	CH	0.5	514	0.0	sink		
E-10	Q2	2.0	0.0	M	CH	0.5	513	0.0	sink		
E-10	Q2	1.0	0.0	M	CH	0.5	512	0.0	sink		
E-10	Q2	2.0	0.0	M	BI	1	1636	-3.0	N. Bottom Drawer		
E-10	Q2	4.0	0.0	M	BI	1	1637	-48.0	S. End, Front		
E-10	Q3	2.0	0.0	CT	BI	1	1632	205.0	N., Top		
E-10	Q3	4.0	0.0	CT	BI	1	1634	149.0	S. End, Back		
E-10	Q3	3.0	0.0	CT	BI	1	1633	130.0	Center		
E-10	Q3	5.0	0.0	CT	BI	1	1635	29.0	S. Narrow Bench		
E-10	Q3	6.0	0.0	CT	BI	1	1369	-27.0			
E-10	Q3	1.0	0.0	CT	BI	1	1631	-44.0	Center, Desk		
E-10	S	5.3	4.0	GB	CH	0.5	522	0.0			
E-10	S	11.0	3.9	GB	CH	0.5	523	0.0			
E-10	W	6.1	3.8	GB	CH	0.5	524	0.0			
E-10	W	15.6	3.8	GB	CH	0.5	525	0.0			
E-2	C	13.2	8.9	GB	BI	1	1332	124.0			
E-2	E	2.6	3.9	PL	CH	0.5	297	0.0			
E-2	E	18.1	4.3	PL	CH	0.5	298	0.0			
E-2	F	12.4	16.8	VT	CH	0.5	308	126.0			
E-2	F	12.1	8.9	VT	RG	1	1337	54.0			
E-2	F	9.5	22.0	VT	CH	0.5	309	51.0	In doorway		
E-2	F	10.5	4.6	VT	CH	0.5	307	32.0			
E-2	F	3.5	17.9	VT	CH	0.5	305	0.0			
E-2	F	5.0	4.7	VT	CH	0.5	306	0.0			
E-2	N	16.8	2.8	PL	CH	0.5	304	196.0			
E-2	N	2.1	2.8	PL	CH	0.5	303	76.0			
E-2	N	12.1	2.5	G	RG	1	1336	-5.0			
E-2	Q1	2.0	0.0	CT	BI	1	1580	34.0	S. End, Top		
E-2	Q1	1.0	0.0	CT	BI	1	1579	17.0	N.W. Top		
E-2	Q1	5.0	0.0	CT	BI	1	1342	10.0	Sink Area		
E-2	Q1	2.0	0.0	M	CH	0.5	294	0.0	Sink		
E-2	Q1	1.0	0.0	M	CH	0.5	293	0.0	Sink		
E-2	Q1	3.0	0.0	M	CH	0.5	295	0.0	Sink		
E-2	Q2	1.0	0.0	CT	BI	1	1581	17.0	N.W. End, Top		
E-2	Q2	12.0	0.0	M	BI	1	1339	-5.0	Drawer - Top - NW		
E-2	Q2	11.0	0.0	M	BI	1	1590	-7.0	S. Cabinet, Bottom		
E-2	Q2	13.0	0.0	CT	BI	1	1344	-10.0			
E-2	Q2	4.0	0.0	M	BI	1	1585	-19.0	3rd Drawer, N. End		
E-2	Q2	6.0	0.0	M	BI	1	1586	-22.0	Cabinet, N., 2nd From		
E-2	Q2	5.0	0.0	CT	BI	1	1594	-26.0	S. End, Middle		
E-2	Q2	10.0	0.0	M	BI	1	1589	-26.0	S. Cabinet, E. Side, 3rd		
E-2	Q2	2.0	0.0	M	BI	1	1584	-26.0	N. End, 2nd Drawer		
E-2	Q2	3.0	0.0	CT	BI	1	1593	-46.0	N. End, Center		

KERR-MCGEE TECHNICAL CENTER DECOMMISSIONING PROJECT

Threshold Comparison Test Report - Buildings

Room	SFC	X (ft)	Y (ft)	Mtx	Meas. Type	Min	SID	Gross Activity (Dpm/100cm2)	Remarks	Exc	Res.
E-2	Q3	1.0	0.0	M	CH	0.5	289	0.0			
E-2	Q4	4.0	0.0	CT	BI	1	1343	80.0			
E-2	Q4	1.0	0.0	CT	BI	1	1595	15.0	Center Top, W. Side		
E-2	Q4	2.0	0.0	CT	BI	1	1596	-3.0	Top, E. Side, Front		
E-2	S	13.7	3.8	PL	CH	0.5	300	237.0			
E-2	S	1.3	3.7	PL	CH	0.5	299	19.0			
E-2	W	16.1	3.8	PL	CH	0.5	302	35.0			
E-2	W	2.0	3.8	PL	CH	0.5	301	0.0			
E-2	W	8.9	3.5	GB	RG	1	1335	-24.0			
E-8	C	11.2	7.7	GB	RG	1	1345	68.0			
E-8	E	14.3	6.4	GB	RG	1	1346	29.0			
E-8	E	3.8	3.7	GB	CH	0.5	495	0.0			
E-8	E	18.4	4.2	GB	CH	0.5	496	0.0			
E-8	F	12.5	7.7	VT	RG	1	1348	19.0			
E-8	F	3.3	17.0	VT	CH	0.5	506	0.0			
E-8	F	15.7	17.2	VT	CH	0.5	503	0.0			
E-8	F	5.7	5.3	VT	CH	0.5	505	0.0			
E-8	F	17.3	4.8	VT	CH	0.5	504	0.0			
E-8	F	11.0	22.0	VT	CH	0.5	507	0.0	In Doorway		
E-8	N	4.9	3.6	GB	CH	0.5	501	0.0			
E-8	N	16.7	3.1	GB	CH	0.5	502	0.0			
E-8	N	12.5	1.3	M	RG	1	1349	-17.0	Door		
E-8	Q1	11.0	0.0	CT	BI	1	1356	306.0	Old Sink Area		
E-8	Q1	12.0	0.0	CT	BI	1	1357	279.0	Old Sink Area		
E-8	Q1	10.0	0.0	CT	BI	1	1602	181.0	Top, S.E., Center		
E-8	Q1	6.0	0.0	CT	BI	1	1599	169.0	Top, S. of Sink		
E-8	Q1	8.0	0.0	CT	BI	1	1600	147.0	Front of S. Sink, Top		
E-8	Q1	4.0	0.0	CT	BI	1	1598	111.0	Top, N. of Sink		
E-8	Q1	1.0	0.0	CT	BI	1	1597	41.0	Top, N. End, Front		
E-8	Q1	2.0	0.0	M	CH	0.5	486	0.0	sink		
E-8	Q1	4.0	0.0	M	CH	0.5	488	0.0	sink		
E-8	Q1	3.0	0.0	M	CH	0.5	487	0.0	sink		
E-8	Q1	1.0	0.0	M	CH	0.5	485	0.0	sink		
E-8	Q1	9.0	0.0	CT	BI	1	1601	-70.0	Top, S.W. Rollout		
E-8	Q1	7.0	0.0	M	BI	1	1618	-77.0	4th Rollout, 2nd Drawer		
E-8	Q1	5.0	0.0	M	BI	1	1617	-80.0	3rd Rollout from N. End,		
E-8	Q1	3.0	0.0	M	BI	1	1616	-120.0	2nd Rollout, N. End,		
E-8	Q1	2.0	0.0	M	BI	1	1615	-142.0	N. Rollout, Front		
E-8	Q2	3.0	0.0	M	CH	0.5	483	0.0	hood		
E-8	Q2	4.0	0.0	M	CH	0.5	484	0.0	hood		
E-8	Q2	2.0	0.0	M	CH	0.5	482	0.0	hood		
E-8	Q2	1.0	0.0	M	CH	0.5	481	0.0	hood		
E-8	Q2	1.0	0.0	M	BI	1	1619	-114.0	Front of Rollout, Under		
E-8	Q3	3.0	0.0	CT	BI	1	1604	171.0	S.E. Top, Center		
E-8	Q3	7.0	0.0	CT	BI	1	1606	164.0	Top, North End		
E-8	Q3	1.0	0.0	CT	BI	1	1603	150.0	S.E. Top		
E-8	Q3	5.0	0.0	CT	BI	1	1605	82.0	Top, Center, Front		
E-8	Q3	2.0	0.0	M	BI	1	1621	-24.0	S.E. Rollout, Bottom		
E-8	Q3	8.0	0.0	M	BI	1	1624	-65.0	N. Rollout, Bottom Shelf		

KERR-MCGEE TECHNICAL CENTER DECOMMISSIONING PROJECT

Threshold Comparison Test Report - Buildings

Room	SFC	X (ft)	Y (ft)	Mtx	Meas. Type	Min	SID	Gross Activity (Dpm/100cm ²)	Remarks	Exc	Res.
E-8	Q3	4.0	0.0	M	BI	1	1622	-72.0	3rd Rollout, E. Side, S.		
E-8	Q3	6.0	0.0	M	BI	1	1623	-84.0	Center Rollout, Top		
E-8	Q4	8.0	0.0	CT	BI	1	1358	188.0	Top		
E-8	Q4	3.0	0.0	CT	BI	1	1608	121.0	Top, S.W. Corner		
E-8	Q4	1.0	0.0	CT	BI	1	1607	101.0	Top, S.E. Corner		
E-8	Q4	2.0	0.0	M	CH	0.5	490	0.0	sink		
E-8	Q4	3.0	0.0	M	CH	0.5	491	0.0	sink		
E-8	Q4	4.0	0.0	M	CH	0.5	492	0.0	sink		
E-8	Q4	1.0	0.0	M	CH	0.5	489	0.0	sink		
E-8	Q4	4.0	0.0	CT	BI	1	1609	-38.0	Top, N.E. Corner		
E-8	Q4	2.0	0.0	M	BI	1	1625	-43.0	3rd Drawer, Center, S.		
E-8	Q4	5.0	0.0	M	BI	1	1626	-44.0	N.E. Top Drawer		
E-8	Q4	6.0	0.0	CT	BI	1	1610	-60.0	Front of Sink, N. Side,		
E-8	Q5	8.0	0.0	CT	BI	1	1359	54.0	Top		
E-8	Q5	4.0	0.0	CT	BI	1	1613	-19.0	S.E. Corner, Top		
E-8	Q5	2.0	0.0	CT	BI	1	1611	-24.0	N.W. Corner, Top		
E-8	Q5	5.0	0.0	CT	BI	1	1614	-48.0	S.W. Corner, Top		
E-8	Q5	3.0	0.0	CT	BI	1	1612	-51.0	N.E. Corner, Top		
E-8	Q5	1.0	0.0	M	BI	1	1627	-62.0	1/2 Shelf, N. Side		
E-8	S	9.1	7.8	C	RG	1	1350	154.0			
E-8	S	17.9	3.6	GB	CH	0.5	498	19.0			
E-8	S	1.3	3.6	GB	CH	0.5	497	0.0			
E-8	W	7.7	3.0	GB	RG	1	1347	111.0	Transite Mix		
E-8	W	4.1	3.6	GB	CH	0.5	499	0.0			
E-8	W	18.0	3.5	GB	CH	0.5	500	0.0			

KERR-MCGEE TECHNICAL CENTER DECOMMISSIONING PROJECT

Threshold Comparison Test Report - Buildings

Summary of Background Data and Thresholds Used in this Analysis

Measurement Type: BK *DCGL:* 12,500 *EMC:* 31,000

<i>Matrix</i>	<i>Number of Data Points</i>	<i>Average Background</i>	<i>Sigma</i>	<i>Background Threshold (Tbk)</i>	<i>DCGLw Threshold (Td)</i>	<i>EMC Threshold (Tc)</i>
		<i>(dpm /100 cm2)</i>	<i>(dpm /100 cm2)</i>	<i>(dpm /100 cm2)</i>	<i>(dpm /100 cm2)</i>	<i>(dpm /100 cm2)</i>
C	15	143.0	47.2	237.3	12,737	31,237
CTP	15	126.7	91.4	309.6	12,810	31,310
G	0	0.0	0.0	0.0	12,500	31,000
GB	15	25.0	50.0	124.9	12,625	31,125
M	0	0.0	0.0	0.0	12,500	31,000
P	0	0.0	0.0	0.0	12,500	31,000
PL	15	110.5	84.2	278.9	12,779	31,279
R	0	0.0	0.0	0.0	12,500	31,000
VT	15	71.9	42.1	156.0	12,656	31,156
W	0	0.0	0.0	0.0	12,500	31,000

**KERR-MCGEE TECHNICAL CENTER
DECOMMISSIONING PROJECT**
Threshold Comparison Test Report - Buildings

STATISTICAL TEST RESULTS

Run Date: 4/24/2004 11:15:56
Survey Unit Number 103 Class: 2
Selected Test: SIGN TEST FOR PAIRED DATA
Test Status Pass
Thresholds:
EMC 31,000 DCGL 12,500

DATA SUMMARY TABLE

29 Survey points processed and 7 matrices processed

S+ = 29 Wc = 19

***** The survey unit has passed the SIGN TEST FOR PAIRED DATA *****

KERR-MCGEE TECHNICAL CENTER DECOMMISSIONING PROJECT

Threshold Comparison Test Report - Buildings

Run Date: Saturday, April 24, 2004
Survey Unit Number: 104 Class: 2 Data Points: Beta Grid Type: R

SURVEY UNIT TABLE

<i>Bldg</i>	<i>Rm</i>	<i>Surface</i>	<i>Fixed Equipment</i>	<i>Surface Area Included (sq. ft)</i>	<i>Remarks</i>
Main	C-21	FCNSEW	Q0Q1Q2	1918	Drop Ceiling
Main	C-23	FCNSEW	Q0Q1Q2	1924	Drop Ceiling
Main	C-25	FCNSEW	Q0Q1Q2Q3	1208	Drop Ceiling
Main	C-27	FCNSEW	Q0Q1Q2Q3Q4	2447	Drop Ceiling
Total Area				7497	

INITIALIZATION DATA

Measurement Types Selected: RG, PR, PG, BI, CH
Date Range: All
Number of Points: 172
Thresholds:
EMC: 31,000 DCGLw: 12,500

SURVEY UNIT TEST STATUS

<i>Test Performed</i>	<i>Status</i>	<i>Matrix</i>	<i>Dpm/100cm2</i>
Min/Max	Pass	Maximum Survey Value CTP	249
Background	Fail	Minimum Background RF	-45
DCGLw	Pass	Difference	294
DCGLavg	Pass	Average Activity	2
EMC	Pass	Average Below DCGL	2
Wilcoxon Rank Sum Test	N/A	Average Background	147
Sign Test for Paired Data	Pass		

KERR-MCGEE TECHNICAL CENTER DECOMMISSIONING PROJECT

Threshold Comparison Test Report - Buildings

THE FOLLOWING DATA POINTS FAILED THE EMC TEST:

NONE

THE FOLLOWING DATA POINTS FAILED THE DCGLw TEST:

NONE

THE FOLLOWING DATA POINTS FAILED THE BACKGROUND TEST:

Survey Unit # 104

Building: Main

Room	SFC	X (ft)	Y (ft)	Mtx	Meas. Type	Min	SID	Gross Activity (Dpm/100cm2)	Remarks	Exc	Res.
C-21	E	14.9	4.9	GB	CH	0.5	1132	144.0		C	
C-21	E	5.9	5.0	GB	CH	0.5	1131	142.0		C	
C-21	F	5.0	0.1	RF	CH	0.5	1124	141.0	In Doorway	C	
C-21	F	4.2	18.1	RF	CH	0.5	1121	71.0		C	
C-21	F	17.7	4.3	RF	CH	0.5	1123	54.0		C	
C-21	Q1	5.0	0.0	M	BI	1	1229	5.0	Top	C	
C-21	Q2	9.0	0.0	M	BI	1	1230	3.0	Front - Left	C	
C-21	S	1.7	5.3	G	RG	1	1226	6.0		C	
C-23	Q0	1.0	0.0	M	BI	1	1808	82.0		C	
C-23	Q1	1.0	0.0	M	BI	1	1528	5.0	Top, W. Side, Center	C	
C-25	Q2	1.0	0.0	M	BI	1	1533	26.0	Top, N.E. Corner	C	
C-25	Q3	1.0	0.0	M	BI	1	1536	24.0	S. End, 3rd Drawer	C	
C-27	Q1	4.0	0.0	M	BI	1	1277	45.0	Hood	C	
C-27	Q2	2.0	0.0	M	CH	0.5	222	35.0	sink	C	
C-27	Q2	8.0	0.0	M	CH	0.5	228	32.0	sink	C	
C-27	Q2	3.0	0.0	M	CH	0.5	1138	16.0	sink	C	
C-27	Q2	5.0	0.0	M	CH	0.5	225	3.0	sink	C	

KERR-MCGEE TECHNICAL CENTER DECOMMISSIONING PROJECT

Threshold Comparison Test Report - Buildings

**THE FOLLOWING DATA POINTS PASSED BACKGROUND, DCGLw, AND EMC
SCREENING TESTS:**

Survey Unit # 104

Building: Main

Room	SFC	X (ft)	Y (ft)	Mtx	Meas. Type	Min	SID	Gross Activity (Dpm/100cm2)	Remarks	Exc	Res.
C-21	C	17.4	10.8	GB	RG	1	1221	99.0			
C-21	C	1.3	10.8	GB	RG	1	1220	26.0			
C-21	F	17.5	10.8	VT	RG	1	1225	54.0			
C-21	F	3.8	3.3	RF	CH	0.5	1120	14.0			
C-21	F	13.7	16.3	RF	CH	0.5	1122	0.0			
C-21	F	1.4	10.8	VT	RG	1	1224	-48.0			
C-21	N	15.3	4.0	GB	CH	0.5	1126	57.0			
C-21	N	17.5	5.0	GB	RG	1	1223	18.0			
C-21	N	2.2	4.3	GB	CH	0.5	1125	0.0			
C-21	N	1.4	5.0	GB	RG	1	1222	-80.0			
C-21	Q0	1.0	0.0	M	BI	1	1807	-85.0			
C-21	Q1	2.0	0.0	M	BI	1	1513	-101.0	Top, Center		
C-21	Q1	4.0	0.0	M	BI	1	1515	-120.0	N. Side, Center		
C-21	Q1	3.0	0.0	M	BI	1	1514	-123.0	E. Side, Bottom Center		
C-21	Q1	1.0	0.0	M	BI	1	1512	-145.0	S. Side, Center		
C-21	Q2	3.0	0.0	CT	BI	1	1523	-27.0	E. Side, Top Center		
C-21	Q2	7.0	0.0	M	BI	1	1521	-50.0	N. Side, Center		
C-21	Q2	1.0	0.0	M	BI	1	1516	-67.0	W. Side, Mid-Top		
C-21	Q2	8.0	0.0	M	BI	1	1522	-72.0	E. Side, Top Center		
C-21	Q2	4.0	0.0	M	BI	1	1518	-75.0	S. Side, Top E. Corner		
C-21	Q2	6.0	0.0	M	BI	1	1520	-106.0	N. Side, Top W. Corner		
C-21	Q2	5.0	0.0	M	BI	1	1519	-130.0	S. Side, Bottom, W.		
C-21	Q2	2.0	0.0	M	BI	1	1517	-164.0	W. Side, N. Bottom		
C-21	S	3.1	5.2	GB	CH	0.5	1129	96.0			
C-21	S	17.3	4.8	GB	CH	0.5	1130	2.0			
C-21	S	17.8	5.3	G	RG	1	1227	-16.0			
C-21	W	8.8	3.8	GB	CH	0.5	1127	0.0			
C-21	W	18.3	4.2	GB	CH	0.5	1128	0.0			
C-23	C	12.1	1.5	GB	RG	1	2274	73.0			
C-23	C	12.1	17.6	GB	RG	1	2273	73.0			
C-23	C	7.1	17.6	GB	BI	1	1232	19.0			
C-23	C	7.1	1.5	GB	BI	1	1231	5.0			
C-23	E	20.5	4.2	GB	RG	1	2291	15.0			
C-23	E	2.3	3.8	GB	CH	0.5	1137	0.0			
C-23	E	15.6	3.8	GB	CH	0.5	1136	0.0			
C-23	E	4.4	4.2	M	RG	1	1236	-93.0	Fell on Q1 - A/C unit		
C-23	F	16.0	0.1	VT	CH	0.5	75	69.0	In doorway		
C-23	F	4.0	15.1	VT	CH	0.5	72	19.0			
C-23	F	3.3	2.8	VT	CH	0.5	71	6.0			
C-23	F	17.1	3.9	VT	CH	0.5	74	0.0			
C-23	F	15.6	16.5	VT	CH	0.5	73	0.0			
C-23	F	7.3	17.6	VT	RG	1	1238	-10.0			
C-23	F	7.3	1.5	VT	RG	1	1237	-14.0			
C-23	N	3.5	4.3	GB	CH	0.5	69	0.0			
C-23	N	15.0	4.2	GB	CH	0.5	70	0.0			
C-23	N	12.5	1.3	GB	BI	1	1233	-29.0			
C-23	N	7.3	8.5	GB	BI	1	1239	-32.0			
C-23	Q1	5.0	0.0	M	BI	1	1241	-7.0	Front Vent Filter Area		
C-23	Q1	2.0	0.0	M	BI	1	1529	-55.0	S. Side, Center		
C-23	Q1	4.0	0.0	M	BI	1	1531	-97.0	N. Side, Center		
C-23	Q1	3.0	0.0	M	BI	1	1530	-108.0	Lower E. Side, Center		
C-23	Q2	2.0	0.0	M	BI	1	1526	-9.0	Top, Center		

KERR-MCGEE TECHNICAL CENTER DECOMMISSIONING PROJECT

Threshold Comparison Test Report - Buildings

Room	SFC	X (ft)	Y (ft)	Mtx	Meas. Type	Min	SID	Gross Activity (Dpm/100cm2)	Remarks	Exc	Res.
C-23	Q2	5.0	0.0	M	BI	1	1242	-15.0	Front Button Area		
C-23	Q2	1.0	0.0	CT	BI	1	1524	-19.0	S. W. End, Table		
C-23	Q2	3.0	0.0	CT	BI	1	1525	-36.0	Bottom, Table		
C-23	Q2	4.0	0.0	M	BI	1	1527	-89.0	Back, Center		
C-23	S	2.3	2.9	GB	CH	0.5	1134	0.0			
C-23	S	17.6	3.8	GB	CH	0.5	1135	0.0			
C-23	W	14.8	4.2	GB	CH	0.5	68	0.0			
C-23	W	3.3	3.8	GB	CH	0.5	67	0.0			
C-23	W	17.6	8.8	GB	RG	1	1235	-41.0			
C-23	W	1.5	8.8	GB	RG	1	1234	-51.0			
C-25	E	3.6	3.5	GB	CH	0.5	81	0.0			
C-25	E	11.8	3.1	GB	CH	0.5	82	0.0			
C-25	E	3.8	8.1	GB	RG	1	1245	-54.0	No Wall Above 8'6"		
C-25	E	19.8	8.1	GB	RG	1	1246	-56.0	No Wall Above 8'6"		
C-25	F	0.1	12.5	CT	CH	0.5	96	47.0	In Doorway		
C-25	F	1.0	18.1	CT	CH	0.5	90	0.0			
C-25	F	1.8	3.8	CT	CH	0.5	89	0.0			
C-25	F	5.3	3.8	CT	CH	0.5	93	0.0			
C-25	F	7.4	17.6	CT	CH	0.5	91	0.0			
C-25	F	2.0	2.2	M	RG	1	1243	-43.0	Fell on Q2		
C-25	F	2.0	18.3	VT	RG	1	1244	-69.0			
C-25	N	5.3	3.7	GB	CH	0.5	88	0.0			
C-25	N	1.1	3.2	GB	CH	0.5	87	0.0			
C-25	N	2.0	8.0	GB	BI	1	1247	-57.0	No Wall Above 8'6"		
C-25	Q0	1.0	0.0	M	BI	1	1809	-30.0			
C-25	Q1	2.0	0.0	CT	BI	1	1538	9.0	Top, Center		
C-25	Q1	3.0	0.0	M	CH	0.5	79	0.0			
C-25	Q1	4.0	0.0	M	CH	0.5	80	0.0			
C-25	Q1	1.0	0.0	M	CH	0.5	77	0.0			
C-25	Q1	2.0	0.0	M	CH	0.5	78	0.0			
C-25	Q1	1.0	0.0	M	BI	1	1532	-68.0	Inside, Bottom		
C-25	Q1	3.0	0.0	CT	BI	1	1251	-100.0	Front Top Sink		
C-25	Q2	2.0	0.0	M	BI	1	1534	-26.0	Bottom, N.E. Corner		
C-25	Q2	4.0	0.0	M	BI	1	1249	-30.0	Top Center		
C-25	Q2	3.0	0.0	M	BI	1	1535	-73.0	E. Side, Center		
C-25	Q3	4.0	0.0	CT	BI	1	1540	3.0	S.W. Corner, Top		
C-25	Q3	2.0	0.0	M	BI	1	1537	-14.0	N. End, Bottom Drawer		
C-25	Q3	3.0	0.0	CT	BI	1	1539	-22.0	N.W. Corner, Top		
C-25	Q3	5.0	0.0	M	BI	1	1250	-58.0	Front		
C-25	S	4.8	3.8	GB	CH	0.5	84	0.0			
C-25	S	1.4	3.8	GB	CH	0.5	83	0.0			
C-25	W	19.3	3.1	PL	CH	0.5	86	0.0			
C-25	W	5.2	3.0	PL	CH	0.5	85	0.0			
C-27	C	13.0	10.9	CT	RG	1	2275	245.0			
C-27	C	16.9	8.2	M	BI	1	1274	-94.0			
C-27	E	13.1	8.5	GB	RG	1	1269	48.0			
C-27	E	3.3	3.8	GB	CH	0.5	113	0.0			
C-27	E	20.1	3.8	GB	CH	0.5	115	0.0			
C-27	F	0.8	10.9	CT	RG	1	1271	195.0	Fell on Counter Top		

KERR-MCGEE TECHNICAL CENTER DECOMMISSIONING PROJECT

Threshold Comparison Test Report - Buildings

Room	SFC	X (ft)	Y (ft)	Mtx	Meas. Type	Min	SID	Gross Activity (Dpm/100cm2)	Remarks	Exc	Res.
C-27	F	5.1	2.3	VT	CH	0.5	121	54.0			
C-27	F	16.9	10.9	VT	RG	1	1273	38.0			
C-27	F	7.5	0.1	VT	CH	0.5	125	35.0	In Doorway		
C-27	F	21.6	18.2	VT	CH	0.5	123	19.0			
C-27	F	18.6	3.5	VT	CH	0.5	124	16.0			
C-27	F	6.3	18.8	VT	CH	0.5	122	6.0			
C-27	F	24.4	16.0	VT	CH	0.5	126	0.0	In Doorway E		
C-27	N	0.8	3.0	CT	RG	1	1272	191.0	Fell on CTP Splash		
C-27	N	16.9	3.0	GB	RG	1	1270	44.0			
C-27	N	3.3	4.3	GB	CH	0.5	119	0.0			
C-27	N	23.1	4.9	GB	CH	0.5	120	0.0			
C-27	Q1	4.0	0.0	M	CH	0.5	104	0.0			
C-27	Q1	2.0	0.0	M	CH	0.5	102	0.0			
C-27	Q1	1.0	0.0	M	CH	0.5	98	0.0			
C-27	Q1	3.0	0.0	M	CH	0.5	103	0.0			
C-27	Q1	3.0	0.0	M	BI	1	1563	-29.0	Under Hood, N. End		
C-27	Q1	2.0	0.0	M	BI	1	1562	-56.0	Bottom, Center		
C-27	Q1	1.0	0.0	M	BI	1	1561	-121.0	N.E. Bottom		
C-27	Q2	1.0	0.0	CT	BI	1	1545	249.0	N. of Sink		
C-27	Q2	2.0	0.0	CT	BI	1	1546	208.0	Front Sink, Top		
C-27	Q2	6.0	0.0	CT	BI	1	1549	145.0	Top, Front Center		
C-27	Q2	8.0	0.0	CT	BI	1	1550	104.0	Top Rear, S. End		
C-27	Q2	10.0	0.0	CT	BI	1	1278	41.0	CTP - West		
C-27	Q2	6.0	0.0	M	CH	0.5	226	0.0	sink		
C-27	Q2	4.0	0.0	M	CH	0.5	224	0.0	sink		
C-27	Q2	7.0	0.0	M	CH	0.5	227	0.0	sink		
C-27	Q2	1.0	0.0	M	CH	0.5	221	0.0	sink		
C-27	Q2	4.0	0.0	CT	BI	1	1547	-32.0	N. Sink, Drain		
C-27	Q2	3.0	0.0	M	BI	1	1558	-44.0	Under Sink, Center		
C-27	Q2	5.0	0.0	CT	BI	1	1548	-53.0	S. Sink		
C-27	Q2	7.0	0.0	M	BI	1	1559	-53.0	Top Drawer, 2nd from		
C-27	Q2	9.0	0.0	M	BI	1	1560	-70.0	4th Drawer, 5th from N.		
C-27	Q3	6.0	0.0	CT	BI	1	1544	191.0	Top, W. End		
C-27	Q3	1.0	0.0	CT	BI	1	1541	159.0	Top, Above 1st Set of		
C-27	Q3	3.0	0.0	CT	BI	1	1542	147.0	Top, Front Center		
C-27	Q3	5.0	0.0	CT	BI	1	1543	121.0	Top, W. Center		
C-27	Q3	8.0	0.0	CT	BI	1	1279	69.0	CTP - North		
C-27	Q3	7.0	0.0	M	BI	1	1557	-12.0	W. End, 3rd Drawer		
C-27	Q3	4.0	0.0	M	BI	1	1556	-62.0	Shelf, Bottom		
C-27	Q3	2.0	0.0	M	BI	1	1555	-85.0	1st Drawer, Front		
C-27	Q4	5.0	0.0	CT	BI	1	1553	125.0	Top, Center		
C-27	Q4	7.0	0.0	CT	BI	1	1554	114.0	Top, N. Desk		
C-27	Q4	3.0	0.0	CT	BI	1	1552	82.0	S.W. Corner, Top		
C-27	Q4	8.0	0.0	CT	BI	1	1280	15.0	CTP - S.E.		
C-27	Q4	1.0	0.0	CT	BI	1	1551	-50.0	Top, Bench		
C-27	Q4	6.0	0.0	M	BI	1	1566	-55.0	Drawer, S. Top		
C-27	Q4	4.0	0.0	M	BI	1	1565	-56.0	Top Shelf		
C-27	Q4	2.0	0.0	M	BI	1	1564	-67.0	Bottom Drawer, W. End		
C-27	S	19.3	4.0	GB	CH	0.5	1139	0.0			
C-27	S	10.1	3.3	GB	CH	0.5	116	0.0			
C-27	S	23.7	5.2	M	RG	1	1275	-152.0	Fell in Hood		
C-27	S	7.6	5.2	G	RG	1	1276	-159.0			
C-27	W	20.1	4.3	PL	CH	0.5	118	111.0			
C-27	W	7.1	4.3	PL	CH	0.5	117	98.0			

KERR-MCGEE TECHNICAL CENTER DECOMMISSIONING PROJECT

Threshold Comparison Test Report - Buildings

Summary of Background Data and Thresholds Used in this Analysis

Measurement Type: BK *DCGL:* 12,500 *EMC:* 31,000

<i>Matrix</i>	<i>Number of Data Points</i>	<i>Average Background</i>	<i>Sigma</i>	<i>Background Threshold (Tbk)</i>	<i>DCGLw Threshold (Td)</i>	<i>EMC Threshold (Tc)</i>
		<i>(dpm /100 cm2)</i>	<i>(dpm /100 cm2)</i>	<i>(dpm /100 cm2)</i>	<i>(dpm /100 cm2)</i>	<i>(dpm /100 cm2)</i>
CT	25	253.6	38.6	330.8	12,831	31,331
CTP	15	126.7	91.4	309.6	12,810	31,310
CTX	25	292.5	63.0	418.5	12,918	31,418
G	0	0.0	0.0	0.0	12,500	31,000
GB	15	25.0	50.0	124.9	12,625	31,125
M	0	0.0	0.0	0.0	12,500	31,000
PL	15	110.5	84.2	278.9	12,779	31,279
RF	15	-16.2	15.6	15.0	12,515	31,015
VT	15	71.9	42.1	156.0	12,656	31,156

**KERR-MCGEE TECHNICAL CENTER
DECOMMISSIONING PROJECT**
Threshold Comparison Test Report - Buildings

STATISTICAL TEST RESULTS

Run Date: 4/24/2004 11:29:03
Survey Unit Number 104 Class: 2
Selected Test: SIGN TEST FOR PAIRED DATA
Test Status Pass
Thresholds:
EMC 31,000 DCGL 12,500

DATA SUMMARY TABLE

28 Survey points processed and 6 matrices processed

S+ = 28 Wc = 18

***** The survey unit has passed the SIGN TEST FOR PAIRED DATA *****

KERR-MCGEE TECHNICAL CENTER DECOMMISSIONING PROJECT

Threshold Comparison Test Report - Buildings

Run Date: Saturday, April 24, 2004
 Survey Unit Number: 105 Class: 2 Data Points: Beta Grid Type: R

SURVEY UNIT TABLE

<i>Bldg</i>	<i>Rm</i>	<i>Surface</i>	<i>Fixed Equipment</i>	<i>Surface Area Included (sq. ft)</i>	<i>Remarks</i>
Main	F-12	FCNSEW	Q1Q2Q3Q4Q5Q6Q7	2074	
Main	F-2&4	FCNSEW	Q0Q1Q2Q3Q4Q5Q6Q7Q8	3268	Non-rectangle, partial susp. Ceiling
Main	F-4a	FCNSEW		624	
Total Area				5966	

INITIALIZATION DATA

Measurement Types Selected: RG, PR, PG, BI, CH
 Date Range: All
 Number of Points: 175
 Thresholds:
 EMC: 31,000 DCGLw: 12,500

SURVEY UNIT TEST STATUS

<i>Test Performed</i>	<i>Status</i>		<i>Matrix</i>	<i>Dpm/100cm2</i>
Min/Max	Pass	Maximum Survey Value	CTP	287
Background	Fail	Minimum Background	GB	-37
DCGLw	Pass	Difference		324
DCGLavg	Pass	Average Activity		51
EMC	Pass	Average Below DCGL		51
Wilcoxon Rank Sum Test	N/A	Average Background		95
Sign Test for Paired Data	Pass			

KERR-MCGEE TECHNICAL CENTER DECOMMISSIONING PROJECT

Threshold Comparison Test Report - Buildings

THE FOLLOWING DATA POINTS FAILED THE EMC TEST:

NONE

THE FOLLOWING DATA POINTS FAILED THE DCGLw TEST:

NONE

THE FOLLOWING DATA POINTS FAILED THE BACKGROUND TEST:

Survey Unit # 105

Building: Main

Room	SFC	X (ft)	Y (ft)	Mtx	Meas. Type	Min	SID	Gross Activity (Dpm/100cm2)	Remarks	Exc	Res.
F-12	E	12.9	7.6	M	RG	1	1408	39.0	Inside of Cabinet	C	
F-12	F	4.0	8.8	VT	RG	1	1412	157.0		C	
F-12	N	18.2	1.3	M	RG	1	1409	3.0	on NE door	C	
F-12	Q2	2.0	0.0	M	BI	1	2234	63.0	Top of Blower	C	
F-12	Q2	1.0	0.0	P	BI	1	2228	57.0	Top of Duct Work	C	
F-12	Q2	3.0	0.0	P	BI	1	2229	24.0	Top of Elbow, Duct	C	
F-12	Q2	4.0	0.0	M	BI	1	2235	7.0	Bottom of Blower	C	
F-12	Q3	2.0	0.0	M	CH	0.5	1040	79.0		C	
F-12	Q3	5.0	0.0	P	BI	1	2230	67.0	Bottom of Duct Work	C	
F-12	Q4	7.0	0.0	P	BI	1	2232	128.0	Top of Duct Work	C	
F-12	Q4	10.0	0.0	P	BI	1	2233	94.0	Bottom of Duct Work	C	
F-12	Q4	8.0	0.0	M	BI	1	2236	80.0	Top of Blower	C	
F-12	Q4	9.0	0.0	M	BI	1	2237	78.0	Bottom of Blower	C	
F-12	Q4	1.0	0.0	M	BI	1	1421	67.0	Bottom	C	
F-12	Q4	3.0	0.0	M	CH	0.5	937	22.0	hood	C	
F-12	Q5	4.0	0.0	M	CH	0.5	951	41.0	sink	C	
F-12	Q6	7.0	0.0	M	BI	1	1422	43.0	Inside Drawer	C	
F-12	Q7	3.0	0.0	M	BI	1	1815	159.0	Light Fixtures	C	
F-12	Q7	1.0	0.0	M	BI	1	1800	145.0	W. Row Lights, S.	C	
F-12	S	2.3	4.4	GB	CH	0.5	942	152.0		C	
F-12	S	20.7	5.4	M	RG	1	1411	68.0	Inside	C	
F-12	S	6.5	5.4	M	RG	1	1410	63.0	Inside SE cabinet	C	
F-12	W	6.6	3.8	GB	CH	0.5	943	142.0		C	
F-2&4	Q1	2.0	0.0	M	BI	1	1658	63.0	N. End, Top Shelf	C	
F-2&4	Q1	4.0	0.0	M	BI	1	1659	46.0	Middle, Top Shelf	C	
F-2&4	Q1	6.0	0.0	M	BI	1	1660	27.0	S. End, Bottom Shelf	C	
F-2&4	Q1	8.0	0.0	M	BI	1	1394	19.0	Inside Cabinet	C	
F-2&4	Q2	6.0	0.0	M	BI	1	1663	150.0	3rd Drawer, Center	C	
F-2&4	Q2	8.0	0.0	M	BI	1	1664	113.0	E. End, Bottom Shelf	C	

KERR-MCGEE TECHNICAL CENTER DECOMMISSIONING PROJECT

Threshold Comparison Test Report - Buildings

Room	SFC	X (ft)	Y (ft)	Mtx	Meas. Type	Min	SID	Gross Activity (Dpm/100cm ²)	Remarks	Exc	Res.
F-2&4	Q2	4.0	0.0	M	BI	1	1662	87.0	Top Drawer, Middle	C	
F-2&4	Q2	2.0	0.0	M	BI	1	1661	63.0	W. End, 3rd Drawer	C	
F-2&4	Q2	13.0	0.0	M	BI	1	1396	41.0	Inside Drawer	C	
F-2&4	Q2	10.0	0.0	M	BI	1	1665	24.0	Bottom Shelf, N.E.	C	
F-2&4	Q3	4.0	0.0	M	BI	1	1667	65.0	3rd Drawer, Center	C	
F-2&4	Q3	2.0	0.0	M	BI	1	1666	41.0	Top Drawer, S. End	C	
F-2&4	Q3	6.0	0.0	M	BI	1	1668	26.0	2nd Drawer, N. End	C	
F-2&4	Q4	4.0	0.0	M	BI	1	1673	87.0	W. End, Bottom	C	
F-2&4	Q4	2.0	0.0	M	BI	1	1672	36.0	2nd Drawer, E. End	C	
F-2&4	Q5	4.0	0.0	M	BI	1	1675	114.0	2nd From Bottom in	C	
F-2&4	Q5	2.0	0.0	M	BI	1	1674	68.0	S.E. End, Top Drawer	C	
F-2&4	Q6	6.0	0.0	M	BI	1	1671	75.0	S.E. End, Top Shelf	C	
F-2&4	Q6	4.0	0.0	M	BI	1	1670	39.0	Center, E. Side, 2nd	C	
F-2&4	Q6	2.0	0.0	M	BI	1	1669	27.0	Bottom Shelf, N.E.	C	
F-2&4	Q7	2.0	0.0	M	BI	1	1796	118.0	Top of Vent Hood, S.	C	
F-2&4	Q7	4.0	0.0	M	BI	1	1798	92.0	S.E. Return Air Vent	C	
F-2&4	Q7	3.0	0.0	M	BI	1	1797	89.0	3rd Row Lights from	C	
F-2&4	Q7	1.0	0.0	M	BI	1	1795	63.0	W. Row of Dropped	C	
F-2&4	Q7	6.0	0.0	M	BI	1	1814	34.0	Light Fixtures	C	
F-2&4	Q7	5.0	0.0	M	BI	1	1799	26.0	E. Row Lights, N. End	C	

THE FOLLOWING DATA POINTS PASSED BACKGROUND, DCGLw, AND EMC SCREENING TESTS:

Survey Unit # 105

Building: Main

Room	SFC	X (ft)	Y (ft)	Mtx	Meas. Type	Min	SID	Gross Activity (Dpm/100cm ²)	Remarks	Exc	Res.
F-12	C	18.2	8.8	C	RG	1	1405	101.0			
F-12	C	4.0	8.8	C	RG	1	1404	101.0			
F-12	E	3.4	4.3	GB	CH	0.5	940	111.0			
F-12	E	19.3	3.3	GB	CH	0.5	941	35.0			
F-12	F	17.1	12.6	VT	CH	0.5	1031	54.0			
F-12	F	18.2	8.8	VT	RG	1	1413	15.0			
F-12	F	7.2	15.0	VT	CH	0.5	1028	13.0			
F-12	F	7.9	4.6	VT	CH	0.5	1029	0.0			
F-12	F	19.8	2.9	VT	CH	0.5	1033	0.0			
F-12	F	23.0	21.7	VT	CH	0.5	1034	0.0	in NE door		
F-12	F	4.0	21.7	VT	CH	0.5	1036	0.0	In NW door		
F-12	N	16.2	3.7	GB	CH	0.5	947	41.0			
F-12	N	8.3	3.8	GB	CH	0.5	946	25.0			
F-12	N	4.0	1.3	C	RG	1	1406	3.0			
F-12	Q1	4.0	0.0	CT	BI	1	1686	285.0	N. End, Top Front, by		
F-12	Q1	2.0	0.0	CT	BI	1	1684	210.0	Middle, Back		
F-12	Q1	3.0	0.0	CT	BI	1	1685	185.0	S. Side Sink, Front, Top		
F-12	Q1	1.0	0.0	CT	BI	1	1683	147.0	S. End, Top Front		
F-12	Q1	5.0	0.0	CT	BI	1	1414	80.0	Sink Bottom - W Wall		
F-12	Q1	4.0	0.0	M	CH	0.5	1045	0.0			

KERR-MCGEE TECHNICAL CENTER DECOMMISSIONING PROJECT

Threshold Comparison Test Report - Buildings

Room	SFC	X (ft)	Y (ft)	Mtx	Meas. Type	Min	SID	Gross Activity (Dpm/100cm2)	Remarks	Exc	Res.
F-12	Q1	3.0	0.0	M	CH	0.5	1044	0.0			
F-12	Q1	2.0	0.0	M	CH	0.5	1043	0.0			
F-12	Q1	1.0	0.0	M	CH	0.5	1042	0.0			
F-12	Q1	6.0	0.0	M	BI	1	1420	-9.0	Inside Drawer		
F-12	Q2	1.0	0.0	CT	BI	1	1415	77.0	Bottom		
F-12	Q2	2.0	0.0	M	CH	0.5	1038	0.0			
F-12	Q2	1.0	0.0	M	CH	0.5	1037	0.0			
F-12	Q3	1.0	0.0	CT	BI	1	1416	14.0	Bottom		
F-12	Q3	3.0	0.0	M	CH	0.5	1041	0.0			
F-12	Q3	1.0	0.0	M	CH	0.5	1039	0.0			
F-12	Q3	6.0	0.0	P	BI	1	2231	0.0	Top of Duct Work		
F-12	Q4	1.0	0.0	M	CH	0.5	935	0.0	hood		
F-12	Q4	2.0	0.0	M	CH	0.5	936	0.0	hood		
F-12	Q4	4.0	0.0	M	CH	0.5	938	0.0	hood		
F-12	Q5	7.0	0.0	CT	BI	1	1419	287.0			
F-12	Q5	3.0	0.0	CT	BI	1	1678	261.0	Top, Center		
F-12	Q5	6.0	0.0	CT	BI	1	1418	261.0	Front Top of Sink		
F-12	Q5	1.0	0.0	CT	BI	1	1676	248.0	N. End, Front, Top		
F-12	Q5	5.0	0.0	CT	BI	1	1417	229.0	Front Top of Sink		
F-12	Q5	2.0	0.0	CT	BI	1	1677	203.0	S. of Sink, Front		
F-12	Q5	4.0	0.0	CT	BI	1	1679	193.0	S. End, Front		
F-12	Q5	1.0	0.0	M	CH	0.5	948	0.0	Sink		
F-12	Q5	3.0	0.0	M	CH	0.5	950	0.0	sink		
F-12	Q5	2.0	0.0	M	CH	0.5	949	0.0	sink		
F-12	Q6	1.0	0.0	CT	BI	1	1680	-36.0	Top, S.E. Corner		
F-12	Q6	6.0	0.0	M	BI	1	1689	-36.0	S.W. Corner, 2nd from		
F-12	Q6	5.0	0.0	CT	BI	1	1682	-60.0	S.W. Corner, Top		
F-12	Q6	2.0	0.0	M	BI	1	1687	-63.0	Top Shelf, S.E. Side		
F-12	Q6	3.0	0.0	CT	BI	1	1681	-99.0	Top, Center, S. Side		
F-12	Q6	4.0	0.0	M	BI	1	1688	-108.0	S. Side, Middle, 3rd		
F-12	Q7	2.0	0.0	M	BI	1	1801	-135.0	E. Row Lights, N. End		
F-12	W	8.8	10.2	C	RG	1	1407	132.0			
F-12	W	17.8	3.5	GB	CH	0.5	944	0.0			
F-2&4	C	14.0	19.4	C	RG	1	1376	113.0			
F-2&4	C	28.2	5.3	GB	RG	1	1384	96.0			
F-2&4	C	42.3	5.3	GB	RG	1	1386	73.0			
F-2&4	C	42.3	19.4	GB	RG	1	1387	62.0			
F-2&4	C	28.2	19.4	GB	RG	1	1385	48.0			
F-2&4	C	14.0	5.3	C	RG	1	1375	36.0			
F-2&4	E	17.3	4.8	GB	CH	0.5	344	0.0			
F-2&4	E	2.4	4.0	GB	CH	0.5	342	0.0			
F-2&4	E	12.2	4.1	GB	CH	0.5	343	0.0			
F-2&4	F	14.0	12.2	VT	RG	1	1388	145.0			
F-2&4	F	42.3	12.2	VT	RG	1	1390	72.0			
F-2&4	F	28.2	12.2	VT	RG	1	1389	56.0			
F-2&4	F	37.8	8.0	VT	CH	0.5	357	16.0			
F-2&4	F	12.3	4.8	VT	CH	0.5	354	9.0			
F-2&4	F	23.2	17.2	VT	CH	0.5	356	0.0			
F-2&4	F	38.7	22.0	VT	CH	0.5	361	0.0	In Doorway		
F-2&4	F	6.5	22.0	VT	CH	0.5	360	0.0	In Doorway		
F-2&4	F	38.7	17.3	VT	CH	0.5	358	0.0			
F-2&4	F	6.5	16.5	VT	CH	0.5	353	0.0			
F-2&4	F	23.4	7.2	VT	CH	0.5	355	0.0			
F-2&4	N	14.0	4.3	C	RG	1	1377	50.0			

KERR-MCGEE TECHNICAL CENTER DECOMMISSIONING PROJECT

Threshold Comparison Test Report - Buildings

Room	SFC	X (ft)	Y (ft)	Mtx	Meas. Type	Min	SID	Gross Activity (Dpm/100cm ²)	Remarks	Exc	Res.
F-2&4	N	42.3	4.3	C	RG	1	1379	19.0			
F-2&4	N	8.8	5.3	PL	CH	0.5	350	0.0			
F-2&4	N	34.0	5.1	PL	CH	0.5	352	0.0			
F-2&4	N	23.0	5.4	PL	CH	0.5	351	0.0			
F-2&4	N	28.2	4.3	C	RG	1	1378	-58.0			
F-2&4	Q1	5.0	0.0	CT	BI	1	1642	120.0	Top, S. End, Back		
F-2&4	Q1	1.0	0.0	CT	BI	1	1640	51.0	N. End, Top		
F-2&4	Q1	3.0	0.0	CT	BI	1	1641	46.0	Top, Center Front		
F-2&4	Q1	7.0	0.0	CT	BI	1	1397	15.0			
F-2&4	Q2	5.0	0.0	CT	BI	1	1645	239.0	Top, Center		
F-2&4	Q2	1.0	0.0	CT	BI	1	1643	132.0	W. End, Top Front		
F-2&4	Q2	7.0	0.0	CT	BI	1	1646	116.0	E. End, Top		
F-2&4	Q2	9.0	0.0	CT	BI	1	1647	111.0	E. End, Center		
F-2&4	Q2	3.0	0.0	CT	BI	1	1644	85.0	Middle, Top		
F-2&4	Q2	12.0	0.0	CT	BI	1	1403	80.0			
F-2&4	Q2	2.0	0.0	M	CH	0.5	339	0.0	sink		
F-2&4	Q2	4.0	0.0	M	CH	0.5	341	0.0	sink		
F-2&4	Q2	3.0	0.0	M	CH	0.5	340	0.0	sink		
F-2&4	Q2	1.0	0.0	M	CH	0.5	338	0.0	sink		
F-2&4	Q2	11.0	0.0	CT	BI	1	1402	-43.0	Inside Sink - E. Side		
F-2&4	Q3	5.0	0.0	CT	BI	1	1650	51.0	Top, N. End		
F-2&4	Q3	3.0	0.0	CT	BI	1	1649	48.0	Center, Top		
F-2&4	Q3	1.0	0.0	CT	BI	1	1648	27.0	S. End, Front Top		
F-2&4	Q3	7.0	0.0	CT	BI	1	1400	21.0			
F-2&4	Q4	3.0	0.0	CT	BI	1	1655	65.0	W. End, Front Top		
F-2&4	Q4	1.0	0.0	CT	BI	1	1654	14.0	Top, E. End, Front		
F-2&4	Q4	5.0	0.0	CT	BI	1	1399	-36.0			
F-2&4	Q5	1.0	0.0	CT	BI	1	1656	58.0	N. E. Corner, Top		
F-2&4	Q5	3.0	0.0	CT	BI	1	1657	50.0	W. Side, Center Top		
F-2&4	Q5	5.0	0.0	CT	BI	1	1398	10.0			
F-2&4	Q6	5.0	0.0	CT	BI	1	1653	99.0	Top, S.E. End		
F-2&4	Q6	3.0	0.0	CT	BI	1	1652	82.0	Top, Center		
F-2&4	Q6	1.0	0.0	CT	BI	1	1651	43.0	N. E. Corner, Top		
F-2&4	Q6	7.0	0.0	CT	BI	1	1401	21.0			
F-2&4	Q6	8.0	0.0	M	BI	1	1395	-3.0	Inside Drawer		
F-2&4	S	23.3	4.8	PL	CH	0.5	346	107.0			
F-2&4	S	28.8	4.9	PL	CH	0.5	347	82.0			
F-2&4	S	1.0	2.0	C	RG	1	1380	53.0			
F-2&4	S	6.4	4.7	PL	CH	0.5	345	0.0			
F-2&4	S	15.2	2.0	M	RG	1	1391	-27.0	Front		
F-2&4	S	29.3	2.0	M	RG	1	1392	-55.0	Front of S. Cabinet		
F-2&4	W	2.0	4.1	PL	CH	0.5	348	25.0			
F-2&4	W	15.3	3.8	PL	CH	0.5	349	0.0			
F-2&4	W	12.2	0.2	M	RG	1	1393	-36.0	Front of W. Cabinet		
F-4a	C	10.8	1.8	C	RG	1	1423	114.0			
F-4a	E	5.3	3.6	GB	CH	0.5	334	0.0			
F-4a	F	10.8	1.6	VT	RG	1	1426	123.0			
F-4a	N	10.8	7.8	C	RG	1	1424	21.0			
F-4a	N	6.2	3.8	PL	CH	0.5	335	0.0			
F-4a	S	2.9	3.5	PL	CH	0.5	336	3.0			
F-4a	W	1.6	3.3	C	RG	1	1425	133.0			
F-4a	W	5.4	2.3	PL	CH	0.5	333	0.0			

KERR-MCGEE TECHNICAL CENTER DECOMMISSIONING PROJECT

Threshold Comparison Test Report - Buildings

Summary of Background Data and Thresholds Used in this Analysis

Measurement Type: BK *DCGL:* 12,500 *EMC:* 31,000

<i>Matrix</i>	<i>Number of Data Points</i>	<i>Average Background</i>	<i>Sigma</i>	<i>Background Threshold (Tbk)</i>	<i>DCGLw Threshold (Td)</i>	<i>EMC Threshold (Tc)</i>
		<i>(dpm /100 cm2)</i>	<i>(dpm /100 cm2)</i>	<i>(dpm /100 cm2)</i>	<i>(dpm /100 cm2)</i>	<i>(dpm /100 cm2)</i>
C	15	143.0	47.2	237.3	12,737	31,237
CTP	15	126.7	91.4	309.6	12,810	31,310
GB	15	25.0	50.0	124.9	12,625	31,125
M	0	0.0	0.0	0.0	12,500	31,000
P	0	0.0	0.0	0.0	12,500	31,000
PL	15	110.5	84.2	278.9	12,779	31,279
VT	15	71.9	42.1	156.0	12,656	31,156

**KERR-MCGEE TECHNICAL CENTER
DECOMMISSIONING PROJECT**
Threshold Comparison Test Report - Buildings

STATISTICAL TEST RESULTS

Run Date: 4/24/2004 11:59:52
Survey Unit Number 105 Class: 2
Selected Test: SIGN TEST FOR PAIRED DATA
Test Status Pass
Thresholds:
EMC 31,000 DCGL 12,500

DATA SUMMARY TABLE

30 Survey points processed and 4 matrices processed

S+ = 30 Wc = 20

***** The survey unit has passed the SIGN TEST FOR PAIRED DATA *****

KERR-MCGEE TECHNICAL CENTER DECOMMISSIONING PROJECT

Threshold Comparison Test Report - Buildings

Run Date: Saturday, April 24, 2004
Survey Unit Number: 106 Class: 2 Data Points: Beta Grid Type: R

SURVEY UNIT TABLE

Bldg	Rm	Surface	Fixed Equipment	Surface Area Included (sq. ft)	Remarks
Main	P-1	FNSEW	Q1	5981	Pilot Plan Pit Area. Pit was filled w concrete. Ceiling ht is 45'. Consider only walls up to 6' impacted
Main	P-2U	CNE		1132	Sample Prep Room above susp ceiling. Susp ceiling unaffected.
Main	G-1	FCNSEW	Q1Q2Q3Q4Q5Q6Q7Q8Q9	1033	Men's changing room off P-1 and P-2
Total Area				8146	

INITIALIZATION DATA

Measurement Types Selected: RG, PR, PG, BI, CH
Date Range: All
Number of Points: 102
Thresholds:
EMC: 31,000 DCGLw: 12,500

SURVEY UNIT TEST STATUS

Test Performed	Status	Matrix	Dpm/100cm2
Min/Max	Pass	Maximum Survey Value	CB 449
Background	Fail	Minimum Background	W 0
DCGLw	Pass	Difference	449
DCGLavg	Pass	Average Activity	151
EMC	Pass	Average Below DCGL	151
Wilcoxon Rank Sum Test	N/A	Average Background	228
Sign Test for Paired Data	Pass		

KERR-MCGEE TECHNICAL CENTER DECOMMISSIONING PROJECT

Threshold Comparison Test Report - Buildings

THE FOLLOWING DATA POINTS FAILED THE EMC TEST:

NONE

THE FOLLOWING DATA POINTS FAILED THE DCGLw TEST:

NONE

THE FOLLOWING DATA POINTS FAILED THE BACKGROUND TEST:

Survey Unit # 106

Building: Main

Room	SFC	X (ft)	Y (ft)	Mtx	Meas. Type	Min	SID	Gross Activity (Dpm/100cm2)	Remarks	Exc	Res.
G-1	C	3.4	7.3	PL	BI	1	2130	425.0		C	
G-1	F	2.0	21.6	CT	BI	1	2137	408.0		C	
G-1	F	4.5	6.1	CT	BI	1	2139	355.0		C	
G-1	F	5.3	27.4	CT	BI	1	2136	332.0		C	
G-1	Q1	7.0	0.0	M	BI	1	2146	425.0	D1 - floor drain	C	
G-1	S	1.4	5.1	CT	BI	1	2133	449.0		C	
G-1	S	6.3	3.7	CT	BI	1	2134	420.0		C	
G-1	W	19.3	3.8	CT	BI	1	2135	405.0		C	
P-1	F	26.0	11.5	C	CH	0.5	996	401.0		C	
P-1	F	63.6	58.9	C	RG	1	2290	302.0		C	
P-1	F	56.6	14.2	C	CH	0.5	1003	300.0		C	
P-1	F	48.2	12.7	C	RG	1	2001	267.0		C	
P-1	F	1.9	28.1	C	RG	1	1990	255.0		C	
P-1	Q1	3.0	0.0	M	BI	1	2011	150.0	Top, Left Handrail	C	
P-1	Q1	1.0	0.0	M	BI	1	2009	22.0	Bottom Step	C	
P-1	Q1	4.0	0.0	M	BI	1	2012	21.0	Top Step	C	

KERR-MCGEE TECHNICAL CENTER DECOMMISSIONING PROJECT

Threshold Comparison Test Report - Buildings

THE FOLLOWING DATA POINTS PASSED BACKGROUND, DCGLw, AND EMC SCREENING TESTS:

Survey Unit # 106

Building: Main

Room	SFC	X (ft)	Y (ft)	Mtx	Meas. Type	Min	SID	Gross Activity (Dpm/100cm ²)	Remarks	Exc	Res.
G-1	C	3.3	21.3	PL	BI	1	2129	-17.0			
G-1	C	3.4	23.8	C	RG	1	2152	-371.0	Plaster		
G-1	C	3.4	8.3	C	RG	1	2153	-437.0	Plaster		
G-1	E	14.9	3.0	CT	BI	1	2132	330.0			
G-1	E	2.7	6.7	PL	BI	1	2127	-10.0			
G-1	F	6.0	17.3	CT	BI	1	2138	294.0			
G-1	F	5.0	23.8	CT	RG	1	2154	44.0	Tile		
G-1	F	5.0	8.3	CT	RG	1	2155	17.0	Tile		
G-1	N	5.6	4.3	CT	BI	1	2131	330.0			
G-1	N	1.9	6.4	PL	BI	1	2126	-14.0			
G-1	Q1	4.0	0.0	C	BI	1	2143	-2.0	sk-4		
G-1	Q1	6.0	0.0	C	BI	1	2145	-5.0	drain		
G-1	Q1	5.0	0.0	C	BI	1	2144	-5.0	trap		
G-1	Q1	2.0	0.0	C	BI	1	2141	-14.0	sk-2		
G-1	Q1	1.0	0.0	C	BI	1	2140	-19.0	sk-1		
G-1	Q1	3.0	0.0	C	BI	1	2142	-44.0	sk-3		
G-1	S	3.0	7.0	CT	RG	1	2156	-73.0	Tile		
G-1	W	7.0	6.8	PL	BI	1	2128	-14.0			
P-1	E	45.1	2.4	CB	BI	1	1983	236.0			
P-1	E	14.3	2.4	CB	BI	1	1981	183.0			
P-1	E	60.5	2.4	M	BI	1	1988	-24.0	Metal Support Beam		
P-1	E	29.8	2.4	W	BI	1	1982	-53.0			
P-1	F	63.6	12.7	C	RG	1	2287	235.0			
P-1	F	63.6	28.1	C	RG	1	2288	226.0			
P-1	F	11.7	28.5	C	CH	0.5	994	221.0			
P-1	F	20.5	15.9	C	CH	0.5	998	205.0			
P-1	F	61.8	4.2	C	CH	0.5	995	196.0			
P-1	F	19.1	39.8	C	CH	0.5	986	189.0			
P-1	F	55.2	19.0	C	CH	0.5	992	164.0			
P-1	F	63.6	43.5	C	RG	1	2289	163.0			
P-1	F	45.5	37.9	C	CH	0.5	990	161.0			
P-1	F	1.9	12.7	C	RG	1	1989	161.0			
P-1	F	17.3	16.5	C	CH	0.5	997	161.0			
P-1	F	55.5	34.5	C	CH	0.5	991	148.0			
P-1	F	48.2	58.9	C	RG	1	2004	147.0			
P-1	F	17.3	12.7	C	RG	1	1993	147.0			
P-1	F	31.9	44.4	C	CH	0.5	1000	145.0			
P-1	F	34.0	50.2	C	CH	0.5	993	145.0			
P-1	F	26.0	17.5	C	CH	0.5	983	145.0			
P-1	F	45.7	17.3	C	CH	0.5	984	142.0			
P-1	F	16.3	27.0	C	CH	0.5	999	136.0			
P-1	F	45.2	26.0	C	CH	0.5	989	126.0			
P-1	F	1.9	43.5	C	RG	1	1991	125.0			
P-1	F	32.8	58.9	C	RG	1	2000	121.0			
P-1	F	1.9	58.9	C	RG	1	1992	118.0			
P-1	F	32.8	41.2	C	CH	0.5	1001	111.0			
P-1	F	20.1	29.7	C	CH	0.5	985	107.0			
P-1	F	17.3	58.9	C	RG	1	1996	106.0			
P-1	F	32.8	12.7	C	RG	1	1997	97.0			
P-1	F	17.3	28.1	C	RG	1	1994	97.0			

KERR-MCGEE TECHNICAL CENTER DECOMMISSIONING PROJECT

Threshold Comparison Test Report - Buildings

Room	SFC	X (ft)	Y (ft)	Mtx	Meas. Type	Min	SID	Gross Activity (Dpm/100cm2)	Remarks	Exc	Res.
P-1	F	17.3	43.5	C	RG	1	1995	92.0			
P-1	F	48.2	43.5	C	RG	1	2003	82.0			
P-1	F	30.6	31.1	C	CH	0.5	987	82.0			
P-1	F	30.0	26.4	C	CH	0.5	988	63.0			
P-1	F	32.8	43.5	C	RG	1	1999	29.0			
P-1	F	32.8	28.1	C	RG	1	1998	19.0			
P-1	F	48.2	28.1	C	RG	1	2002	-26.0			
P-1	N	17.3	1.1	CB	BI	1	1985	241.0			
P-1	N	48.2	1.1	CB	BI	1	1987	197.0			
P-1	N	1.9	1.1	CB	BI	1	1984	191.0			
P-1	N	32.8	1.1	CB	BI	1	1986	176.0			
P-1	Q1	2.0	0.0	M	BI	1	2010	-73.0	Bottom Right Handrail		
P-1	S	25.0	2.8	CB	RG	1	2283	449.0			
P-1	S	55.8	2.8	CB	RG	1	2285	426.0			
P-1	S	59.2	2.8	CB	BI	1	2008	410.0			
P-1	S	71.3	2.8	CB	RG	1	2286	402.0			
P-1	S	40.4	2.8	CB	RG	1	2284	375.0			
P-1	S	9.6	2.8	CB	RG	1	2282	339.0			
P-1	S	43.8	2.8	CB	BI	1	2007	332.0			
P-1	S	12.9	2.8	CB	BI	1	2005	323.0			
P-1	S	28.3	2.8	CB	BI	1	2006	275.0			
P-2U	C	1.7	25.7	M	RG	1	1193	-3.0			
P-2U	C	22.8	25.7	M	RG	1	1199	-30.0			
P-2U	C	12.2	25.7	M	RG	1	1196	-49.0			
P-2U	C	1.7	4.6	M	RG	1	2124	-62.0			
P-2U	C	1.7	15.1	M	RG	1	1192	-72.0			
P-2U	C	12.2	4.6	M	RG	1	1194	-77.0			
P-2U	C	22.8	15.1	M	RG	1	1198	-85.0			
P-2U	C	12.2	15.1	M	RG	1	1195	-88.0			
P-2U	C	22.8	4.6	M	RG	1	1197	-93.0			
P-2U	E	15.1	0.3	CB	RG	1	2261	420.0			
P-2U	E	1.3	3.4	CB	BI	1	1638	371.0			
P-2U	E	4.5	0.3	CB	RG	1	2264	330.0			
P-2U	E	29.8	2.2	CB	BI	1	1639	323.0			
P-2U	E	25.6	0.3	CB	RG	1	2260	307.0			
P-2U	N	17.0	6.0	CB	RG	1	2257	320.0			

KERR-MCGEE TECHNICAL CENTER DECOMMISSIONING PROJECT

Threshold Comparison Test Report - Buildings

Summary of Background Data and Thresholds Used in this Analysis

Measurement Type: BK *DCGL:* 12,500 *EMC:* 31,000

<i>Matrix</i>	<i>Number of Data Points</i>	<i>Average Background</i>	<i>Sigma</i>	<i>Background Threshold (Tbk)</i>	<i>DCGLw Threshold (Td)</i>	<i>EMC Threshold (Tc)</i>
		<i>(dpm /100 cm2)</i>	<i>(dpm /100 cm2)</i>	<i>(dpm /100 cm2)</i>	<i>(dpm /100 cm2)</i>	<i>(dpm /100 cm2)</i>
C	15	143.0	47.2	237.3	12,737	31,237
CB	15	387.1	43.0	473.0	12,973	31,473
CT	25	253.6	38.6	330.8	12,831	31,331
M	0	0.0	0.0	0.0	12,500	31,000
PL	15	110.5	84.2	278.9	12,779	31,279
W	0	0.0	0.0	0.0	12,500	31,000

KERR-MCGEE TECHNICAL CENTER DECOMMISSIONING PROJECT

Threshold Comparison Test Report - Buildings

STATISTICAL TEST RESULTS

Run Date: 4/24/2004 12:08:56 PM
Survey Unit Number 106 Class: 2
Selected Test: SIGN TEST FOR PAIRED DATA
Test Status Pass
Thresholds:

EMC 31,000 DCGL 12,500

DATA SUMMARY TABLE

43 Survey points processed and 4 matrices processed

S+ = 43 Wc = 27

***** The survey unit has passed the SIGN TEST FOR PAIRED DATA *****

KERR-MCGEE TECHNICAL CENTER DECOMMISSIONING PROJECT

Threshold Comparison Test Report - Buildings

Run Date: Saturday, April 24, 2004
 Survey Unit Number: 107 Class: 1 Data Points: Beta Grid Type: R

SURVEY UNIT TABLE

<i>Bldg</i>	<i>Rm</i>	<i>Surface</i>	<i>Fixed Equipment</i>	<i>Surface Area Included (sq. ft)</i>	<i>Remarks</i>
Main	P-2L	FNE	Q1Q2Q3Q4Q5Q6Q8	1230	Sample Prep Room up to susp. Ceiling.. Has been resized. W&S non-impacted
Total Area				1230	

INITIALIZATION DATA

Measurement Types Selected: RG, PR, PG, BI, CH
 Date Range: All
 Number of Points: 86
 Thresholds:
 EMC: 31,000 DCGLw: 12,500

SURVEY UNIT TEST STATUS

<i>Test Performed</i>	<i>Status</i>		<i>Matrix</i>	<i>Dpm/100cm2</i>
Min/Max	Pass	Maximum Survey Value	C	991
Background	Fail	Minimum Background	W	0
DCGLw	Pass	Difference		991
DCGLavg	Pass	Average Activity		150
EMC	Pass	Average Below DCGL		150
Wilcoxon Rank Sum Test	N/A	Average Background		219
Sign Test for Paired Data	Pass			

KERR-MCGEE TECHNICAL CENTER DECOMMISSIONING PROJECT

Threshold Comparison Test Report - Buildings

THE FOLLOWING DATA POINTS FAILED THE EMC TEST:

NONE

THE FOLLOWING DATA POINTS FAILED THE DCGLw TEST:

NONE

THE FOLLOWING DATA POINTS FAILED THE BACKGROUND TEST:

Survey Unit # 107

Building: Main

Room	SFC	X (ft)	Y (ft)	Mtx	Meas. Type	Min	SID	Gross Activity (Dpm/100cm2)	Remarks	Exc	Res
P-2L	E	3.3	2.2	M	RG	1	2076	27.0	Power Panel	C	
P-2L	F	23.4	11.6	C	PR	1	2148	991.0	Micro R @ bkg - 9	C	
P-2L	F	23.3	11.2	C	BI	1	1110	711.0	Not Painted	C	
P-2L	F	20.3	17.1	C	BI	1	1111	588.0	Painted	C	
P-2L	F	10.8	22.8	C	CH	0.5	1025	413.0		C	
P-2L	F	16.1	20.3	C	RG	1	2096	332.0		C	
P-2L	F	2.8	27.0	C	RG	1	2088	296.0		C	
P-2L	F	16.1	7.1	C	RG	1	2094	273.0		C	
P-2L	F	22.8	20.3	C	RG	1	2100	260.0		C	
P-2L	F	15.0	5.0	M	BI	1	1174	97.0	Floor Drain	C	
P-2L	F	2.8	13.7	W	RG	1	2102	3.0	Top of Rotap Shaker (Q6)	C	
P-2L	Q1	2.0	0.0	M	BI	1	2107	118.0	Bottom Drawer, West	C	
P-2L	Q1	5.0	0.0	M	BI	1	2109	62.0	Cabinet, Top Shelf, East	C	
P-2L	Q1	3.0	0.0	M	BI	1	2108	51.0	Cabinet, Bottom Shelf, West	C	
P-2L	Q2	1.0	0.0	M	BI	1	2110	104.0	South Side	C	
P-2L	Q2	2.0	0.0	M	BI	1	2111	58.0	North Side	C	
P-2L	Q2	1.0	0.0	M	BI	1	1108	10.0	Top, Center	C	
P-2L	Q3	2.0	0.0	M	BI	1	2113	43.0	West, Outside Wall	C	
P-2L	Q4	3.0	0.0	M	BI	1	2116	318.0	Motor, Top	C	
P-2L	Q5	1.0	0.0	M	BI	1	2117	94.0	Casing Below Motor	C	
P-2L	Q6	2.0	0.0	M	BI	1	2120	68.0	Motor Housing	C	
P-2L	Q6	1.0	0.0	M	BI	1	2119	22.0	Rotap Face - East	C	

KERR-MCGEE TECHNICAL CENTER DECOMMISSIONING PROJECT

Threshold Comparison Test Report - Buildings

THE FOLLOWING DATA POINTS PASSED BACKGROUND, DCGLw, AND EMC SCREENING TESTS:

Survey Unit # 107

Building: Main

Room	SFC	X (ft)	Y (ft)	Mtx	Meas. Type	Min	SID	Gross Activity (Dpm/100cm2)	Remarks	Exc	Res.
P-2L	E	29.8	2.2	CB	RG	1	2081	326.0			
P-2L	E	16.5	2.2	CB	RG	1	2079	316.0			
P-2L	E	23.1	3.5	CB	CH	0.5	1020	306.0			
P-2L	E	7.0	4.1	CB	CH	0.5	1019	306.0			
P-2L	E	23.2	2.2	CB	RG	1	2080	306.0			
P-2L	E	15.1	5.1	CB	BI	1	1161	212.0	Painted		
P-2L	E	9.8	2.2	CB	RG	1	2078	205.0	Exhaust Filter (Paper)		
P-2L	E	27.3	2.4	CB	BI	1	1112	188.0	Painted		
P-2L	E	25.7	5.1	M	BI	1	1162	-82.0	Metal Elec. Box, Painted		
P-2L	F	21.7	26.3	C	CH	0.5	1026	232.0			
P-2L	F	9.4	20.3	C	RG	1	2092	215.0			
P-2L	F	22.8	13.7	C	RG	1	2099	202.0			
P-2L	F	22.8	27.0	C	RG	1	2101	200.0			
P-2L	F	16.1	0.4	C	RG	1	2093	200.0			
P-2L	F	9.4	13.7	C	RG	1	2091	200.0			
P-2L	F	19.9	4.9	C	CH	0.5	1023	192.0			
P-2L	F	9.4	7.1	C	RG	1	2090	188.0			
P-2L	F	22.8	7.1	C	RG	1	2098	186.0			
P-2L	F	16.1	13.7	C	RG	1	2095	186.0			
P-2L	F	2.8	20.3	C	RG	1	2087	176.0			
P-2L	F	22.8	0.4	C	RG	1	2097	174.0			
P-2L	F	22.0	0.1	C	CH	0.5	1027	173.0	In Doorway		
P-2L	F	21.8	15.1	C	BI	1	1105	164.0	Painted		
P-2L	F	2.8	7.1	C	RG	1	2086	161.0			
P-2L	F	9.4	0.4	C	RG	1	2089	144.0			
P-2L	F	2.8	0.4	C	RG	1	2085	137.0			
P-2L	F	11.2	25.7	C	BI	1	1168	113.0	Painted		
P-2L	F	6.1	11.9	C	CH	0.5	1024	111.0			
P-2L	F	21.8	4.6	C	BI	1	1104	108.0	Painted		
P-2L	F	11.2	15.1	C	BI	1	1167	99.0	Painted		
P-2L	F	16.1	27.0	CT	RG	1	2104	96.0	Top of N. Counter Cabinet		
P-2L	F	0.7	25.7	C	BI	1	1165	92.0	Painted		
P-2L	F	21.8	25.7	C	BI	1	1106	92.0	Painted		
P-2L	F	0.7	15.1	C	BI	1	1164	82.0	Painted		
P-2L	F	9.4	27.0	CT	RG	1	2103	56.0	Top of N. Counter Cabinet		
P-2L	F	0.7	4.6	C	BI	1	1163	14.0	Painted		
P-2L	F	11.2	4.6	C	BI	1	1166	-5.0	Painted		
P-2L	F	16.6	27.8	C	BI	1	2150	-12.0	Below Cabinets		
P-2L	N	18.4	2.5	CB	PR	1	2149	422.0	North Wall		
P-2L	N	21.1	3.4	CB	CH	0.5	1022	394.0			
P-2L	N	18.0	3.0	CB	BI	1	1107	345.0	Not Painted		
P-2L	N	1.4	4.2	CB	CH	0.5	1021	313.0			
P-2L	N	16.1	3.4	CB	RG	1	2084	311.0			
P-2L	N	4.6	5.1	CB	BI	1	1160	280.0	Painted		
P-2L	N	16.9	4.5	CB	BI	1	1109	265.0	Not Painted		
P-2L	N	2.8	3.4	CB	RG	1	2082	263.0			
P-2L	N	9.4	3.4	CB	RG	1	2083	229.0			

KERR-MCGEE TECHNICAL CENTER DECOMMISSIONING PROJECT

Threshold Comparison Test Report - Buildings

Room	SFC	X (ft)	Y (ft)	Mtx	Meas. Type	Min	SID	Gross Activity (Dpm/100cm2)	Remarks	Exc	Res.
P-2L	N	22.8	3.4	M	RG	1	2077	-46.0	Steel Door, North		
P-2L	N	0.7	6.0	G	BI	1	1156	-118.0	Window, Above Bench		
P-2L	N	0.7	6.0	G	BI	1	1157	-120.0	Window, Above Bench		
P-2L	N	21.8	6.0	M	BI	1	1159	-132.0	Door, Metal, 1		
P-2L	N	11.2	6.0	G	BI	1	1158	-140.0	Window, Above Bench		
P-2L	N	14.6	0.3	CB	BI	1	2151	-158.0	Below Cabinets		
P-2L	Q1	4.0	0.0	CT	BI	1	2106	34.0	Top		
P-2L	Q1	1.0	0.0	CT	BI	1	2105	31.0	Top		
P-2L	Q1	1.0	0.0	M	BI	1	1172	-58.0	ROTAP		
P-2L	Q3	1.0	0.0	M	BI	1	2112	-7.0	East, Inside Wall		
P-2L	Q3	1.0	0.0	M	BI	1	1169	-85.0	Painted Bottom Gear		
P-2L	Q4	1.0	0.0	M	BI	1	2114	-2.0	Chain Guard, South		
P-2L	Q4	2.0	0.0	M	BI	1	2115	-5.0	Inside Wall, South		
P-2L	Q4	1.0	0.0	M	BI	1	1170	-22.0	Painted, S. Front Mounting		
P-2L	Q5	2.0	0.0	M	BI	1	2118	-2.0	Face - East		
P-2L	Q5	1.0	0.0	M	BI	1	1171	-82.0	Painted, NW Corner of		
P-2L	Q6	1.0	0.0	CT	BI	1	1173	22.0	Center Bench on Counter		

KERR-MCGEE TECHNICAL CENTER DECOMMISSIONING PROJECT

Threshold Comparison Test Report - Buildings

Summary of Background Data and Thresholds Used in this Analysis

Measurement Type: BK *DCGL:* 12,500 *EMC:* 31,000

<i>Matrix</i>	<i>Number of Data Points</i>	<i>Average Background</i>	<i>Sigma</i>	<i>Background Threshold (Tbk)</i>	<i>DCGLw Threshold (Td)</i>	<i>EMC Threshold (Tc)</i>
		<i>(dpm /100 cm2)</i>	<i>(dpm /100 cm2)</i>	<i>(dpm /100 cm2)</i>	<i>(dpm /100 cm2)</i>	<i>(dpm /100 cm2)</i>
C	15	143.0	47.2	237.3	12,737	31,237
CB	15	387.1	43.0	473.0	12,973	31,473
CTP	15	126.7	91.4	309.6	12,810	31,310
G	0	0.0	0.0	0.0	12,500	31,000
M	0	0.0	0.0	0.0	12,500	31,000
W	0	0.0	0.0	0.0	12,500	31,000

**KERR-MCGEE TECHNICAL CENTER
DECOMMISSIONING PROJECT**
Threshold Comparison Test Report - Buildings

STATISTICAL TEST RESULTS

Run Date: 4/24/2004 12:18:11 PM
Survey Unit Number 107 Class: 1
Selected Test: SIGN TEST FOR PAIRED DATA
Test Status Pass
Thresholds:

EMC 31,000 DCGL 12,500

DATA SUMMARY TABLE

29 Survey points processed and 5 matrices processed

S+ = 29 Wc = 19

***** The survey unit has passed the SIGN TEST FOR PAIRED DATA *****

KERR-MCGEE TECHNICAL CENTER DECOMMISSIONING PROJECT

Threshold Comparison Test Report - Buildings

Run Date: Saturday, April 24, 2004
 Survey Unit Number: 108 Class: 2 Data Points: Beta Grid Type: R

SURVEY UNIT TABLE

<i>Bldg</i>	<i>Rm</i>	<i>Surface</i>	<i>Fixed Equipment</i>	<i>Surface Area Included (sq. ft)</i>	<i>Remarks</i>
Storage	S-1	FCNSEW	Q0	3952	
Total Area				3952	

INITIALIZATION DATA

Measurement Types Selected: RG, PR, PG, BI, CH
 Date Range: All
 Number of Points: 48
 Thresholds:
 EMC: 31,000 DCGLw: 12,500

SURVEY UNIT TEST STATUS

Test Performed	Status		Matrix	Dpm/100cm2
Min/Max	Pass	Maximum Survey Value	CB	615
Background	Fail	Minimum Background	M	0
DCGLw	Pass	Difference		615
DCGLavg	Pass	Average Activity		274
EMC	Pass	Average Below DCGL		274
Wilcoxon Rank Sum Test	N/A	Average Background		265
Sign Test for Paired Data	Pass			

KERR-MCGEE TECHNICAL CENTER DECOMMISSIONING PROJECT

Threshold Comparison Test Report - Buildings

THE FOLLOWING DATA POINTS FAILED THE EMC TEST:

NONE

THE FOLLOWING DATA POINTS FAILED THE DCGLw TEST:

NONE

THE FOLLOWING DATA POINTS FAILED THE BACKGROUND TEST:

Survey Unit # 108

Building: Storage

Room	SFC	X (ft)	Y (ft)	Mtx	Meas. Type	Min	SID	Gross Activity (Dpm/100cm2)	Remarks	Exc	Res
S-1	C	33.3	19.8	F	RG	1	1286	58.0		C	
S-1	C	33.3	8.2	F	RG	1	1285	55.0		C	
S-1	C	9.9	19.8	F	RG	1	1282	29.0		C	
S-1	C	21.6	8.2	F	RG	1	1283	15.0		C	
S-1	C	9.9	8.2	F	RG	1	1281	10.0		C	
S-1	E	3.0	4.5	CB	CH	0.5	1004	578.0		C	
S-1	E	21.0	4.5	CB	CH	0.5	1005	505.0		C	
S-1	F	33.3	25.0	C	RG	1	1298	285.0		C	
S-1	N	25.8	4.5	CB	CH	0.5	1011	615.0		C	
S-1	N	3.1	4.8	CB	CH	0.5	1010	531.0		C	
S-1	Q0	4.0	0.0	M	BI	1	1315	91.0	Light Vent Duct - West End	C	
S-1	Q0	1.0	0.0	M	BI	1	1311	19.0		C	
S-1	S	5.3	10.0	CB	RG	1	1302	487.0		C	
S-1	S	25.8	4.3	CB	CH	0.5	1007	486.0		C	
S-1	W	3.0	4.5	CB	CH	0.5	1008	597.0		C	
S-1	W	23.0	4.8	CB	CH	0.5	1009	556.0		C	

KERR-MCGEE TECHNICAL CENTER DECOMMISSIONING PROJECT

Threshold Comparison Test Report - Buildings

THE FOLLOWING DATA POINTS PASSED BACKGROUND, DCGLw, AND EMC
SCREENING TESTS:

Survey Unit # 108

Building: Storage

Room	SFC	X (ft)	Y (ft)	Mtx	Meas. Type	Min	SID	Gross Activity (Dpm/100cm2)	Remarks	Exc	Res.
S-1	C	21.6	19.8	F	RG	1	1284	-7.0			
S-1	E	26.3	6.4	CB	RG	1	1289	371.0			
S-1	E	14.7	6.4	CB	RG	1	1288	349.0			
S-1	E	3.0	6.4	CB	RG	1	1287	347.0			
S-1	F	30.8	20.0	CB	CH	0.5	1017	376.0			
S-1	F	6.8	22.5	CB	CH	0.5	1013	346.0			
S-1	F	7.7	7.7	CB	CH	0.5	1012	335.0			
S-1	F	21.6	1.7	C	RG	1	1293	200.0			
S-1	F	33.3	1.7	C	RG	1	1296	197.0			
S-1	F	9.9	1.7	C	RG	1	1290	191.0			
S-1	F	33.3	13.3	C	RG	1	1297	181.0			
S-1	F	21.6	25.0	C	RG	1	1295	174.0			
S-1	F	21.6	13.3	C	RG	1	1294	164.0			
S-1	F	34.3	0.1	CB	CH	0.5	1018	140.0	In Doorway		
S-1	F	9.9	25.0	C	RG	1	1292	140.0			
S-1	F	9.9	13.3	C	RG	1	1291	135.0			
S-1	F	29.0	5.8	CB	CH	0.5	1016	99.0			
S-1	N	33.3	8.7	CB	RG	1	1301	390.0			
S-1	N	21.6	8.7	CB	RG	1	1300	374.0			
S-1	N	9.9	8.7	CB	RG	1	1299	320.0			
S-1	Q0	2.0	0.0	M	BI	1	1312	-9.0	Vent Duct - Center		
S-1	Q0	6.0	0.0	M	BI	1	1314	-31.0	South Man-Door		
S-1	Q0	5.0	0.0	M	BI	1	1313	-73.0	Air Blower - Vent		
S-1	S	3.5	4.5	CB	CH	0.5	1006	457.0			
S-1	S	16.9	10.0	CB	RG	1	1303	396.0			
S-1	S	28.6	10.0	CB	RG	1	1304	357.0			
S-1	W	1.7	1.8	CB	RG	1	1305	460.0			
S-1	W	1.7	13.5	CB	RG	1	1306	410.0			
S-1	W	13.3	1.8	CB	RG	1	1307	400.0			
S-1	W	25.0	1.8	CB	RG	1	1309	384.0			
S-1	W	13.3	13.5	CB	RG	1	1308	350.0			
S-1	W	25.0	13.5	CB	RG	1	1310	332.0			

KERR-MCGEE TECHNICAL CENTER DECOMMISSIONING PROJECT

Threshold Comparison Test Report - Buildings

Summary of Background Data and Thresholds Used in this Analysis

Measurement Type: BK *DCGL:* 12,500 *EMC:* 31,000

<i>Matrix</i>	<i>Number of Data Points</i>	<i>Average Background</i>	<i>Sigma</i>	<i>Background Threshold (Tbk)</i>	<i>DCGLw Threshold (Td)</i>	<i>EMC Threshold (Tc)</i>
		<i>(dpm /100 cm2)</i>	<i>(dpm /100 cm2)</i>	<i>(dpm /100 cm2)</i>	<i>(dpm /100 cm2)</i>	<i>(dpm /100 cm2)</i>
C	15	143.0	47.2	237.3	12,737	31,237
CB	15	387.1	43.0	473.0	12,973	31,473
F	0	0.0	0.0	0.0	12,500	31,000
M	0	0.0	0.0	0.0	12,500	31,000

**KERR-MCGEE TECHNICAL CENTER
DECOMMISSIONING PROJECT**
Threshold Comparison Test Report - Buildings

STATISTICAL TEST RESULTS

Run Date: 4/24/2004 12:42:11 PM
Survey Unit Number 108 Class: 2
Selected Test: SIGN TEST FOR PAIRED DATA
Test Status Pass
Thresholds:
EMC 31,000 DCGL 12,500

DATA SUMMARY TABLE

30 Survey points processed and 3 matrices processed

S+ = 30 Wc = 20

***** The survey unit has passed the SIGN TEST FOR PAIRED DATA *****

KERR-MCGEE TECHNICAL CENTER DECOMMISSIONING PROJECT

Threshold Comparison Test Report - Buildings

Run Date: Saturday, April 24, 2004
 Survey Unit Number: 109 Class: 2 Data Points: Beta Grid Type: R

SURVEY UNIT TABLE

<i>Bldg</i>	<i>Rm</i>	<i>Surface</i>	<i>Fixed Equipment</i>	<i>Surface Area Included (sq. ft)</i>	<i>Remarks</i>
TSSL	T-1	FCNSEW	Q1Q7	2298	Exposure Lab
Total Area				2298	

INITIALIZATION DATA

Measurement Types Selected: RG, PR, PG, BI, CH
 Date Range: All
 Number of Points: 79
 Thresholds:
 EMC: 31,000 DCGLw: 12,500

SURVEY UNIT TEST STATUS

Test Performed	Status		Matrix	Dpm/100cm2
Min/Max	Pass	Maximum Survey Value	VT	254
Background	Fail	Minimum Background	GB	-37
DCGLw	Pass	Difference		291
DCGLavg	Pass	Average Activity		-13
EMC	Pass	Average Below DCGL		-13
Wilcoxon Rank Sum Test	N/A	Average Background		138
Sign Test for Paired Data	Pass			

KERR-MCGEE TECHNICAL CENTER DECOMMISSIONING PROJECT

Threshold Comparison Test Report - Buildings

THE FOLLOWING DATA POINTS FAILED THE EMC TEST:

NONE

THE FOLLOWING DATA POINTS FAILED THE DCGLw TEST:

NONE

THE FOLLOWING DATA POINTS FAILED THE BACKGROUND TEST:

Survey Unit # 109

Building: TSSL

Room	SFC	X (ft)	Y (ft)	Mtx	Meas. Type	Min	SID	Gross Activity (Dpm/100cm2)	Remarks	Exc	Res
T-1	C	13.8	14.2	F	BI	1	2044	39.0		C	
T-1	C	19.3	5.3	F	BI	1	2045	29.0		C	
T-1	C	19.3	14.2	F	BI	1	2046	27.0		C	
T-1	C	13.8	5.3	F	BI	1	2043	12.0		C	
T-1	C	3.8	20.6	F	RG	1	2023	3.0		C	
T-1	F	19.3	3.0	VT	CH	0.5	982	254.0	In Doorway	C	
T-1	Q1	4.0	0.0	M	CH	0.5	956	18.0	sink	C	
T-1	Q1	3.0	0.0	M	CH	0.5	955	7.0	sink	C	
T-1	Q7	2.0	0.0	M	BI	1	2074	19.0	Top of Light	C	

THE FOLLOWING DATA POINTS PASSED BACKGROUND, DCGLw, AND EMC SCREENING TESTS:

Survey Unit # 109

Building: TSSL

Room	SFC	X (ft)	Y (ft)	Mtx	Meas. Type	Min	SID	Gross Activity (Dpm/100cm2)	Remarks	Exc	Res.
T-1	C	12.8	2.8	F	RG	1	2022	-39.0			
T-1	E	6.6	4.9	GB	CH	0.5	958	0.0			
T-1	E	13.6	5.0	GB	CH	0.5	959	0.0			
T-1	E	10.9	9.0	GB	BI	1	2050	-15.0			
T-1	E	2.0	9.0	GB	BI	1	2048	-36.0			
T-1	E	2.0	4.0	GB	BI	1	2047	-38.0			
T-1	E	7.1	8.3	GB	RG	1	2033	-39.0			
T-1	E	16.0	8.3	GB	RG	1	2034	-46.0			
T-1	E	10.9	4.0	GB	BI	1	2049	-60.0			
T-1	E	24.9	8.3	GB	RG	1	2035	-67.0			
T-1	F	9.3	23.1	VT	CH	0.5	980	85.0			
T-1	F	4.9	8.5	VT	BI	1	2064	38.0			
T-1	F	10.1	4.0	VT	CH	0.5	978	33.0			
T-1	F	19.3	17.3	VT	BI	1	2068	29.0			
T-1	F	18.8	20.6	VT	RG	1	2021	26.0			
T-1	F	18.8	11.7	VT	RG	1	2018	17.0			
T-1	F	0.9	2.8	VT	RG	1	2013	10.0			

KERR-MCGEE TECHNICAL CENTER DECOMMISSIONING PROJECT

Threshold Comparison Test Report - Buildings

Room	SFC	X (ft)	Y (ft)	Mtx	Meas. Type	Min	SID	Gross Activity (Dpm/100cm2)	Remarks	Exc	Res.
T-1	F	13.8	17.3	VT	BI	1	2066	5.0			
T-1	F	9.8	20.6	VT	RG	1	2020	5.0			
T-1	F	14.0	19.8	VT	CH	0.5	981	0.0			
T-1	F	13.8	8.5	VT	BI	1	2065	0.0			
T-1	F	2.3	14.1	VT	CH	0.5	979	0.0			
T-1	F	9.8	11.7	VT	RG	1	2017	-2.0			
T-1	F	18.8	2.8	VT	RG	1	2015	-5.0			
T-1	F	4.9	17.3	M	BI	1	2069	-15.0			
T-1	F	0.9	20.6	VT	RG	1	2019	-15.0			
T-1	F	9.8	2.8	VT	RG	1	2014	-21.0			
T-1	F	0.9	11.7	VT	RG	1	2016	-31.0			
T-1	N	3.3	4.8	GB	CH	0.5	964	33.0			
T-1	N	14.9	4.6	GB	CH	0.5	965	0.0			
T-1	N	13.8	6.8	GB	BI	1	2052	-29.0			
T-1	N	4.9	6.8	GB	BI	1	2051	-29.0			
T-1	N	19.3	6.8	GB	BI	1	2053	-32.0			
T-1	N	0.9	1.8	M	RG	1	2024	-32.0	Fell on Q1, South		
T-1	N	0.9	10.7	M	RG	1	2027	-43.0	Support Beam		
T-1	N	9.8	1.8	M	RG	1	2025	-48.0	Fell on Q1, South		
T-1	N	18.8	10.7	M	RG	1	2029	-51.0	Support Beam		
T-1	N	18.8	1.8	M	RG	1	2026	-58.0	Door		
T-1	N	9.8	10.7	M	RG	1	2028	-89.0	Support Beam		
T-1	Q1	2.0	0.0	M	CH	0.5	954	0.0	sink		
T-1	Q1	1.0	0.0	M	CH	0.5	953	0.0	sink		
T-1	Q1	7.0	0.0	M	BI	1	2042	-5.0	Sink Bottom		
T-1	Q1	3.0	0.0	M	BI	1	2072	-7.0	Top Drawer, East End		
T-1	Q1	2.0	0.0	CT	BI	1	2071	-27.0	Center of Counter Top		
T-1	Q1	6.0	0.0	M	BI	1	2041	-27.0	Middle Cabinet, Bottom		
T-1	Q1	5.0	0.0	M	BI	1	2040	-29.0	Top Drawer, East		
T-1	Q1	4.0	0.0	CT	BI	1	2039	-32.0	East End, Top		
T-1	Q1	1.0	0.0	M	BI	1	2070	-67.0	Sink		
T-1	Q7	1.0	0.0	M	BI	1	2073	-26.0	Building Support Beam		
T-1	Q7	3.0	0.0	M	BI	1	2075	-36.0	Top of Air Duct		
T-1	S	4.8	3.0	GB	CH	0.5	960	0.0			
T-1	S	14.2	2.7	GB	CH	0.5	961	0.0			
T-1	S	4.9	9.3	GB	BI	1	2055	-5.0			
T-1	S	19.3	9.0	GB	BI	1	2059	-15.0			
T-1	S	13.8	9.0	GB	BI	1	2057	-17.0			
T-1	S	9.6	6.2	GB	RG	1	2031	-36.0			
T-1	S	4.9	0.4	GB	BI	1	2054	-41.0			
T-1	S	13.8	0.4	GB	BI	1	2056	-50.0			
T-1	S	2.5	0.4	GB	BI	1	2058	-53.0			
T-1	S	18.4	6.2	GB	RG	1	2032	-62.0			
T-1	S	0.7	6.2	W	RG	1	2030	-135.0	Door		
T-1	W	15.3	2.3	GB	CH	0.5	963	15.0			
T-1	W	3.3	3.3	GB	CH	0.5	962	0.0			
T-1	W	8.5	3.9	GB	BI	1	2060	-5.0			
T-1	W	17.3	9.0	GB	BI	1	2063	-10.0			
T-1	W	17.3	3.9	GB	BI	1	2062	-14.0			
T-1	W	8.5	9.0	GB	BI	1	2061	-32.0			
T-1	W	11.7	7.9	GB	RG	1	2037	-34.0			
T-1	W	2.8	7.9	GB	RG	1	2036	-41.0			
T-1	W	20.6	7.9	GB	RG	1	2038	-51.0			

KERR-MCGEE TECHNICAL CENTER DECOMMISSIONING PROJECT

Threshold Comparison Test Report - Buildings

Summary of Background Data and Thresholds Used in this Analysis

Measurement Type: BK *DCGL:* 12,500 *EMC:* 31,000

<i>Matrix</i>	<i>Number of Data Points</i>	<i>Average Background</i>	<i>Sigma</i>	<i>Background Threshold (Tbk)</i>	<i>DCGLw Threshold (Td)</i>	<i>EMC Threshold (Tc)</i>
		<i>(dpm /100 cm2)</i>	<i>(dpm /100 cm2)</i>	<i>(dpm /100 cm2)</i>	<i>(dpm /100 cm2)</i>	<i>(dpm /100 cm2)</i>
CT	25	253.6	38.6	330.8	12,831	31,331
CTP	15	126.7	91.4	309.6	12,810	31,310
F	0	0.0	0.0	0.0	12,500	31,000
GB	15	25.0	50.0	124.9	12,625	31,125
M	0	0.0	0.0	0.0	12,500	31,000
VT	15	71.9	42.1	156.0	12,656	31,156
W	0	0.0	0.0	0.0	12,500	31,000

**KERR-MCGEE TECHNICAL CENTER
DECOMMISSIONING PROJECT**
Threshold Comparison Test Report - Buildings

STATISTICAL TEST RESULTS

Run Date: 4/24/2004 12:46:48 PM
Survey Unit Number 109 Class: 2
Selected Test: SIGN TEST FOR PAIRED DATA
Test Status Pass
Thresholds:

EMC 31,000 DCGL 12,500

DATA SUMMARY TABLE

26 Survey points processed and 5 matrices processed

S+ = 26 Wc = 17

***** The survey unit has passed the SIGN TEST FOR PAIRED DATA *****

KERR-MCGEE TECHNICAL CENTER DECOMMISSIONING PROJECT

Threshold Comparison Test Report - Buildings

Run Date: Saturday, April 24, 2004
 Survey Unit Number: 110 Class: 1 Data Points: Beta Grid Type: R

SURVEY UNIT TABLE

<i>Bldg</i>	<i>Rm</i>	<i>Surface</i>	<i>Fixed Equipment</i>	<i>Surface Area Included (sq. ft)</i>	<i>Remarks</i>
Main	E-28	FCNSEW	Q0Q1Q2	2148	Drop Ceiling
Total Area				2148	

INITIALIZATION DATA

Measurement Types Selected: RG, PR, PG, BI, CH
 Date Range: All
 Number of Points: 81
 Thresholds:
 EMC: 31,000 DCGLw: 12,500

SURVEY UNIT TEST STATUS

Test Performed	Status		Matrix	Dpm/100cm2
Min/Max	Pass	Maximum Survey Value	M	669
Background	Fail	Minimum Background	GB	-37
DCGLw	Pass	Difference		706
DCGLavg	Pass	Average Activity		67
EMC	Pass	Average Below DCGL		67
Wilcoxon Rank Sum Test	N/A	Average Background		152
Sign Test for Paired Data	Pass			

KERR-MCGEE TECHNICAL CENTER DECOMMISSIONING PROJECT

Threshold Comparison Test Report - Buildings

THE FOLLOWING DATA POINTS FAILED THE EMC TEST:

NONE

THE FOLLOWING DATA POINTS FAILED THE DCGLw TEST:

NONE

THE FOLLOWING DATA POINTS FAILED THE BACKGROUND TEST:

Survey Unit # 110

Building: Main

Room	SFC	X (ft)	Y (ft)	Mtx	Meas. Type	Min	SID	Gross Activity (Dpm/100cm2)	Remarks	Exc	Res
E-28	Q0	6.0	0.0	M	BI	1	1900	181.0	W. Exhaust Vent, Bottom	C	
E-28	Q0	13.0	0.0	M	BI	1	1902	137.0	N. Central Light, Top	C	
E-28	Q0	17.0	0.0	M	BI	1	1903	113.0	N.E. Light, Top	C	
E-28	Q0	18.0	0.0	P	BI	1	1908	104.0	N.E. Light, Bottom	C	
E-28	Q0	22.0	0.0	P	BI	1	1909	89.0	S.E. Light, Bottom	C	
E-28	Q0	21.0	0.0	M	BI	1	1904	84.0	S.E. Light, Top	C	
E-28	Q0	14.0	0.0	P	BI	1	1907	82.0	N. Central Light, Bottom	C	
E-28	Q0	3.0	0.0	M	BI	1	1898	50.0	Light Fixture, Top	C	
E-28	Q0	4.0	0.0	P	BI	1	1905	50.0	Light Fixture, Bottom	C	
E-28	Q0	9.0	0.0	M	BI	1	1901	21.0	S. Central Light, Top	C	
E-28	Q1	4.0	0.0	M	CH	0.5	232	669.0	At the drain	C	
E-28	Q1	1.0	0.0	M	CH	0.5	229	486.0		C	
E-28	Q1	3.0	0.0	M	CH	0.5	231	98.0		C	
E-28	Q1	2.0	0.0	M	CH	0.5	230	25.0		C	
E-28	Q1	6.0	0.0	M	BI	1	1915	24.0	Inside, Cabinet, Bottom	C	
E-28	Q2	2.0	0.0	M	BI	1	1917	77.0	S. Middle Drawer	C	
E-28	Q2	1.0	0.0	M	BI	1	1916	54.0	S.E. Drawer	C	
E-28	Q2	3.0	0.0	M	BI	1	1918	10.0	S.W. Drawer	C	

KERR-MCGEE TECHNICAL CENTER DECOMMISSIONING PROJECT

Threshold Comparison Test Report - Buildings

**THE FOLLOWING DATA POINTS PASSED BACKGROUND, DCGLw, AND EMC
SCREENING TESTS:**

Survey Unit # 110

Building: Main

Room	SFC	X (ft)	Y (ft)	Mtx	Meas. Type	Min	SID	Gross Activity (Dpm/100cm ²)	Remarks	Exc	Res.
E-28	C	2.1	5.7	M	RG	1	1866	-7.0			
E-28	C	27.9	14.3	M	RG	1	1873	-10.0			
E-28	C	19.3	14.3	M	RG	1	1871	-15.0			
E-28	C	10.7	14.3	M	RG	1	1869	-27.0			
E-28	C	19.3	5.7	M	RG	1	1870	-29.0			
E-28	C	2.1	14.3	M	RG	1	1867	-31.0			
E-28	C	10.7	5.7	M	RG	1	1868	-36.0			
E-28	C	27.9	5.7	M	RG	1	1872	-96.0			
E-28	E	2.2	3.4	GB	CH	0.5	233	0.0			
E-28	E	14.5	3.4	GB	CH	0.5	234	0.0			
E-28	E	2.6	6.5	GB	RG	1	1884	-41.0			
E-28	E	11.2	6.5	M	RG	1	1876	-62.0	On E. Door Frame		
E-28	F	4.4	4.0	VT	CH	0.5	244	82.0			
E-28	F	19.3	13.2	VT	RG	1	1863	72.0			
E-28	F	30.0	5.0	VT	CH	0.5	249	51.0	In E Doorway		
E-28	F	23.3	9.3	VT	CH	0.5	241	44.0			
E-28	F	7.8	11.4	VT	CH	0.5	242	19.0			
E-28	F	27.9	13.2	VT	RG	1	1865	19.0			
E-28	F	10.7	13.2	VT	RG	1	1861	15.0			
E-28	F	2.1	13.2	VT	RG	1	1859	14.0			
E-28	F	19.3	4.6	VT	RG	1	1862	5.0			
E-28	F	22.1	4.1	VT	CH	0.5	245	0.0			
E-28	F	0.1	8.0	VT	CH	0.5	248	0.0	In W Doorway		
E-28	F	27.9	4.6	VT	RG	1	1864	-15.0			
E-28	F	10.7	4.6	VT	RG	1	1860	-29.0			
E-28	F	2.1	4.6	VT	RG	1	1858	-48.0			
E-28	N	2.1	6.0	GB	RG	1	1878	89.0			
E-28	N	19.3	6.0	GB	RG	1	1880	46.0			
E-28	N	10.7	6.0	GB	RG	1	1879	34.0			
E-28	N	1.0	3.9	GB	CH	0.5	239	28.0	Brick outside wall		
E-28	N	26.8	4.2	GB	CH	0.5	240	0.0	Brick outside wall		
E-28	N	27.9	6.0	GB	RG	1	1881	-12.0			
E-28	Q0	19.0	0.0	CT	BI	1	1894	371.0	N.E., Top		
E-28	Q0	16.0	0.0	CT	BI	1	1893	354.0	N. Central, Bottom		
E-28	Q0	2.0	0.0	CT	BI	1	1887	326.0	N.W. Corner, Bottom		
E-28	Q0	20.0	0.0	CT	BI	1	1895	313.0	N.E., Bottom		
E-28	Q0	15.0	0.0	CT	BI	1	1892	296.0	N. Central, Top		
E-28	Q0	23.0	0.0	CT	BI	1	1896	289.0	S.E., Top		
E-28	Q0	7.0	0.0	CT	BI	1	1888	243.0	S.W., Top		
E-28	Q0	24.0	0.0	CT	BI	1	1897	234.0	S.E., Bottom		
E-28	Q0	11.0	0.0	CT	BI	1	1890	229.0	S. Central, Top		
E-28	Q0	1.0	0.0	CT	BI	1	1886	227.0	N.W. Corner, Top		
E-28	Q0	8.0	0.0	CT	BI	1	1889	207.0	S.W., Bottom		
E-28	Q0	12.0	0.0	CT	BI	1	1891	205.0	S. Central, Bottom		
E-28	Q0	10.0	0.0	P	BI	1	1906	-36.0	S. Central Light, Bottom		
E-28	Q0	5.0	0.0	M	BI	1	1899	-68.0	W. Exhaust Vent, Top		
E-28	Q1	4.0	0.0	CT	PR	1	1913	-16.0	Sink, Bottom		
E-28	Q1	5.0	0.0	CT	BI	1	1914	-16.0	Drain Area		
E-28	Q1	3.0	0.0	CT	PR	1	1912	-16.0	Sink, Back		
E-28	Q1	1.0	0.0	CT	PR	1	1910	-32.0	Sink, East Inside		
E-28	Q1	2.0	0.0	CT	PR	1	1911	-32.0	Sink, West Inside		

KERR-MCGEE TECHNICAL CENTER DECOMMISSIONING PROJECT

Threshold Comparison Test Report - Buildings

Room	SFC	X (ft)	Y (ft)	Mtx	Meas. Type	Min	SID	Gross Activity (Dpm/100cm2)	Remarks	Exc	Res.
E-28	Q2	5.0	0.0	CT	BI	1	1920	206.0	Top, N. Center		
E-28	Q2	4.0	0.0	CT	BI	1	1919	204.0	Top, S.E. Corner		
E-28	S	9.8	3.8	GB	CH	0.5	235	0.0			
E-28	S	25.4	3.8	GB	CH	0.5	236	0.0			
E-28	S	10.7	4.5	GB	RG	1	1882	-89.0			
E-28	S	27.9	4.5	M	RG	1	1875	-96.0	On Back of South Hood		
E-28	S	19.3	4.5	GB	RG	1	1883	-97.0			
E-28	S	2.1	4.5	M	RG	1	1874	-104.0	On South Door		
E-28	W	2.4	3.9	GB	CH	0.5	237	0.0			
E-28	W	14.0	4.1	GB	CH	0.5	238	0.0			
E-28	W	13.2	6.5	GB	RG	1	1885	-21.0			
E-28	W	4.6	6.5	G	RG	1	1877	-60.0			

**KERR-MCGEE TECHNICAL CENTER
DECOMMISSIONING PROJECT**
Threshold Comparison Test Report - Buildings

Summary of Background Data and Thresholds Used in this Analysis

Measurement Type:BK **DCGL:** 12,500 **EMC:** 31,000

Matrix	Number of Data Points	Average Background	Sigma	Background Threshold (Tbk)	DCGLw Threshold (Td)	EMC Threshold (Tc)
		<i>(dpm /100 cm2)</i>	<i>(dpm /100 cm2)</i>	<i>(dpm /100 cm2)</i>	<i>(dpm /100 cm2)</i>	<i>(dpm /100 cm2)</i>
CTP	15	126.7	91.4	309.6	12,810	31,310
CTX	25	292.5	63.0	418.5	12,918	31,418
G	0	0.0	0.0	0.0	12,500	31,000
GB	15	25.0	50.0	124.9	12,625	31,125
M	0	0.0	0.0	0.0	12,500	31,000
P	0	0.0	0.0	0.0	12,500	31,000
VT	15	71.9	42.1	156.0	12,656	31,156

**KERR-MCGEE TECHNICAL CENTER
DECOMMISSIONING PROJECT**
Threshold Comparison Test Report - Buildings

STATISTICAL TEST RESULTS

Run Date: 4/24/2004 1:03:03 PM
Survey Unit Number 110 Class: 1
Selected Test: SIGN TEST FOR PAIRED DATA
Test Status Pass
Thresholds:
EMC 31,000 DCGL 12,500

DATA SUMMARY TABLE

28 Survey points processed and 4 matrices processed

S+ = 28 Wc = 18

***** The survey unit has passed the SIGN TEST FOR PAIRED DATA *****

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