



## Maine Yankee Atomic Power Plant Site Characterization

04/01/98

## CHARACTERIZATION SUMMARY

SURVEY PACKAGE NUMBER :B1200

SURFACES &amp; STRUCTURES

PACKAGE DESCRIPTION

Administration Center - Elevation 21 ft.

SURVEY AREA DESCRIPTION

Administration Center

## GENERAL HISTORICAL INFORMATION (Operational history, etc.)

The Administration Center is a single story office building used by plant management and administrative staff. The building has brick and concrete block walls and a concrete floor. Restrooms have ceramic tile on the floors. Most rooms are carpeted (for 9 years). This building contains the security/access control area. Carpet is new, floor tile replaced in the late 80s.

## SUMMARY OF CHARACTERIZATION ACTIVITIES

Survey units were established for the areas as shown in the following Summary of Survey Units. Maps with the survey measurement locations for this package are included on the following pages.

Performed a scan of approximately five square meters at 37 survey measurement locations indicated on the survey map(s). This was approximately 10% of the accessible surface area.

Collected direct measurements for total beta activity at 37 survey measurement locations at the highest location identified in the scan. If an elevated location was not observed, the measurement was collected at an arbitrary location, selected by the technician, within the five square meter scanned area.

Collected smear samples to analyze for removable alpha and beta activity at the same 37 survey locations of direct measurements for total beta activity within the five square meter scanned area.

Collected one meter gamma exposure rate measurements at 15 survey locations for direct measurements for total beta activity on floor surfaces.

The survey result statistical summaries, graphs and results listings are shown in the following individual reports including calibration summaries for the instruments used for each measurement type.

## CHARACTERIZATION SURVEY RESULTS

- o There were 5 direct measurements for total beta activity above MDA (686 dpm/100cm<sup>2</sup>) and no results greater than 2000 dpm/100cm<sup>2</sup>. The maximum measurement result was 1,628 dpm/100cm<sup>2</sup>.
- o There were no measurements for removable beta activity above MDA (16.2 dpm/100cm<sup>2</sup>).
- o There were no measurements for removable alpha activity above MDA (6.7 dpm/100cm<sup>2</sup>).
- o The average and maximum one meter exposure rate measurement results were 13.3 µR/hr and 15.2 µR/hr respectively.

## REFERENCES (Documents, Interviews)



## Maine Yankee Atomic Power Plant Site Characterization

## SUMMARY OF SURVEY UNIT(S)

03/24/98

OUTPUT BATCH SN = 231

**PACKAGE B1200 SURFACES & STRUCTURES**  
Administration Center - Elevation 21 ft.

UNIT(S)	SURFACE(S)
01 - Administration Center	CL1 (Ceiling) EQ1 (Equipment) EQ2 (Equipment) EQ3 (Equipment) FL1 (Floor) WS1 (Walls)

**REASON(S) CHARACTERIZATION SURVEY (C01)**

MATERIALS	MAT'L CODE	MATERIAL DESCRIPTION	BETA BKGD (dpm/100 cm <sup>2</sup> )
	B0001	CONCRETE - PAINTED (INTERIOR)	478.0
	B0003	CINDER BLOCK - PAINTED (INTERIOR)	478.0
	B0026	VINYL TILE (OVER CONCRETE)	0.0
	B0027	CARPET (OVER CONCRETE)	0.0
	B0033	CEILING TILE - FIBERBOARD	0.0
	B0036	METAL - PAINTED	0.0
	B9999	OTHER	0.0

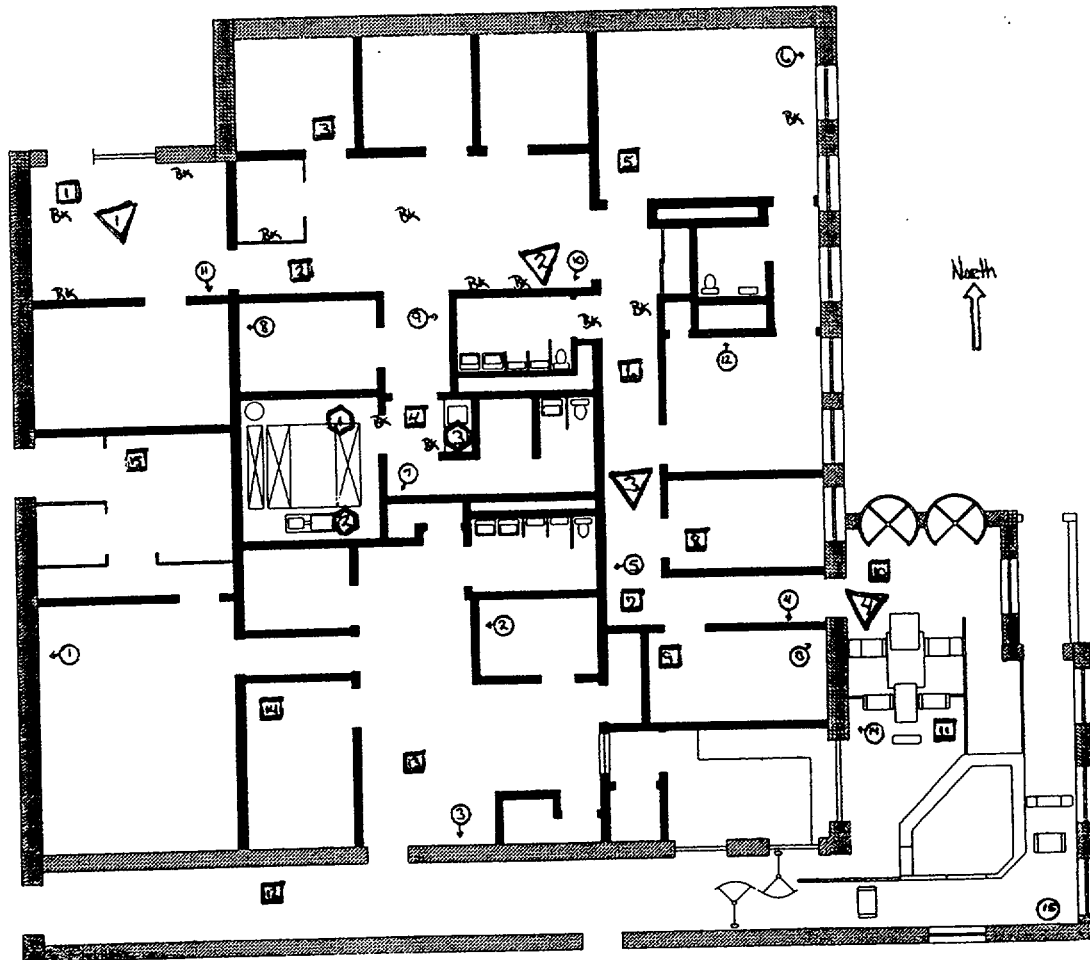
Maine Yankee Atomic Power Plant Site Characterization

SURVEY PACKAGE B1200

B12-

- ⊙ - survey locations on walls - C1W51
- ⊞ - survey locations on floors - C1F41
- ⊚ - survey locations on equipment - C1E61, 62, 63
- △ - survey locations on ceilings - C1C41
- BK - background locations

**Administration Building (Front Office)**





Maine Yankee Atomic Power Plant Site Characterization

03/24/98

Direct Measurements For Total Beta Activity

Survey Package B1200 SURFACES & STRUCTURES  
Administration Center - Elevation 21 ft.

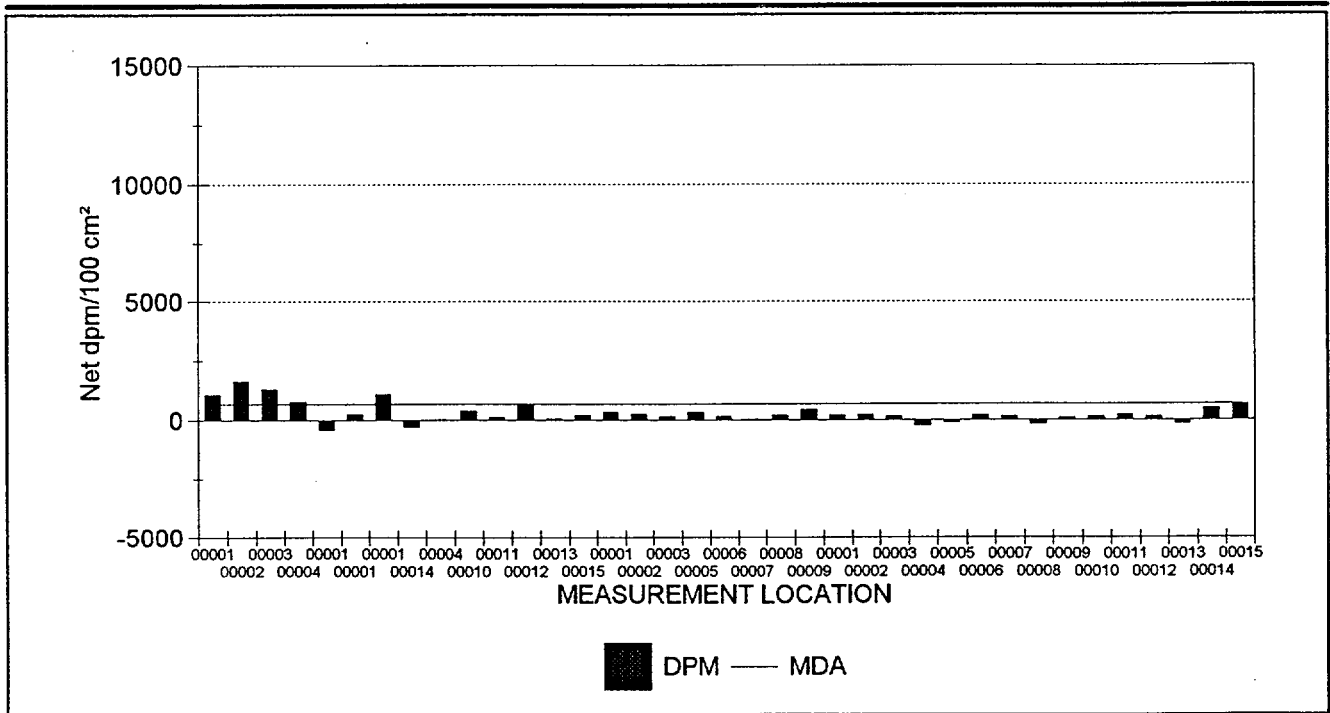
STATISTICAL SUMMARY

TESTS PERFORMED

	Net dpm/100 cm <sup>2</sup>
Mean	293.1
Maximum	1,628.2
Minimum	-406.4
Standard Deviation	431.9
MDA	686.4

Samples reported satisfy samples prescribed	YES
MDA <2000 net dpm/100 cm <sup>2</sup>	YES
Results above 2000 net dpm/100 cm <sup>2</sup>	0
Number of results above MDA	5

Samples Reported	37
Samples Prescribed	37



37 RESULTS ARE GRAPHED



## Maine Yankee Atomic Power Plant Site Characterization

03/24/98

## Direct Measurements For Total Beta Activity

Survey Package : B1200 SURFACES & STRUCTURES  
Administration Center - Elevation 21 ft.

## RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	MDA	RESULT
262 (2)	01	CL1	B0033	C01	10	00001	668.7	<u>1,056.6</u>
262 (2)	01	CL1	B0033	C01	10	00002	668.7	<u>1,628.2</u>
262 (2)	01	CL1	B0033	C01	10	00003	668.7	<u>1,308.1</u>
262 (2)	01	CL1	B0033	C01	10	00004	668.7	<u>782.3</u>
262 (2)	01	EQ1	B0036	C01	10	00001	668.7	-406.4
262 (2)	01	EQ2	B0036	C01	10	00001	668.7	256.5
262 (2)	01	EQ3	B0036	C01	10	00001	668.7	<u>1,102.4</u>
249 (2)	01	FL1	B0001	C01	10	00014	686.4	-297.7
249 (2)	01	FL1	B0026	C01	10	00004	686.4	22.5
249 (2)	01	FL1	B0026	C01	10	00010	686.4	383.0
249 (2)	01	FL1	B0026	C01	10	00011	686.4	135.2
249 (2)	01	FL1	B0026	C01	10	00012	686.4	630.9
249 (2)	01	FL1	B0026	C01	10	00013	686.4	45.1
249 (2)	01	FL1	B0026	C01	10	00015	686.4	202.8
249 (2)	01	FL1	B0027	C01	10	00001	686.4	338.0
249 (2)	01	FL1	B0027	C01	10	00002	686.4	270.4
249 (2)	01	FL1	B0027	C01	10	00003	686.4	157.7
249 (2)	01	FL1	B0027	C01	10	00005	686.4	338.0
249 (2)	01	FL1	B0027	C01	10	00006	686.4	157.7
249 (2)	01	FL1	B0027	C01	10	00007	686.4	22.5
249 (2)	01	FL1	B0027	C01	10	00008	686.4	202.8
249 (2)	01	FL1	B0027	C01	10	00009	686.4	450.6
249 (2)	01	WS1	B0003	C01	10	00001	686.4	220.5
249 (2)	01	WS1	B0003	C01	10	00002	686.4	243.0
249 (2)	01	WS1	B0003	C01	10	00003	686.4	152.9
249 (2)	01	WS1	B0003	C01	10	00004	686.4	-230.1
249 (2)	01	WS1	B0003	C01	10	00005	686.4	-95.0
249 (2)	01	WS1	B0003	C01	10	00006	686.4	198.0
262 (2)	01	WS1	B0003	C01	10	00007	668.7	144.3
262 (2)	01	WS1	B0003	C01	10	00008	668.7	-175.7
262 (2)	01	WS1	B0003	C01	10	00009	668.7	98.6
262 (2)	01	WS1	B0003	C01	10	00010	668.7	144.3
262 (2)	01	WS1	B0003	C01	10	00011	668.7	235.7
262 (2)	01	WS1	B0003	C01	10	00012	668.7	144.3
262 (2)	01	WS1	B0003	C01	10	00013	668.7	-152.9
262 (2)	01	WS1	B9999	C01	10	00014	668.7	485.1
262 (2)	01	WS1	B9999	C01	10	00015	668.7	645.2

NOTES: Activity reported in net dpm/100 cm<sup>2</sup>. Count times are reported in seconds.  
Underlined values exceed the MDA.  
Bold values exceed 2000 dpm/100 cm<sup>2</sup>.  
37 results are listed.



## Maine Yankee Atomic Power Plant Site Characterization

## DOWNLOAD FILE & SURVEY INSTRUMENTATION CALIBRATION SUMMARY

03/24/98

Direct Measurements For Total Beta Activity

Survey Package : B1200 SURFACES & STRUCTURES  
Administration Center - Elevation 21 ft.

SURVEY DATE	FILE #	M2350		DETECTOR			PRE EFF	TECHNICIAN
		INST S/N	CAL DUE	MODEL	S/N	CAL DUE		
12/31/97	249 (2)	129433	6/10/98	43-106	133864	6/5/98	.21	
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
1/1/98	262 (2)	129433	6/10/98	43-106	133864	6/5/98	.21	MEW9813
CALIBRATION DATES VERIFIED AS ACCEPTABLE								



Maine Yankee Atomic Power Plant Site Characterization

03/24/98

Removable Contamination - Gross Beta Activity

Survey Package B1200 SURFACES & STRUCTURES  
Administration Center - Elevation 21 ft.

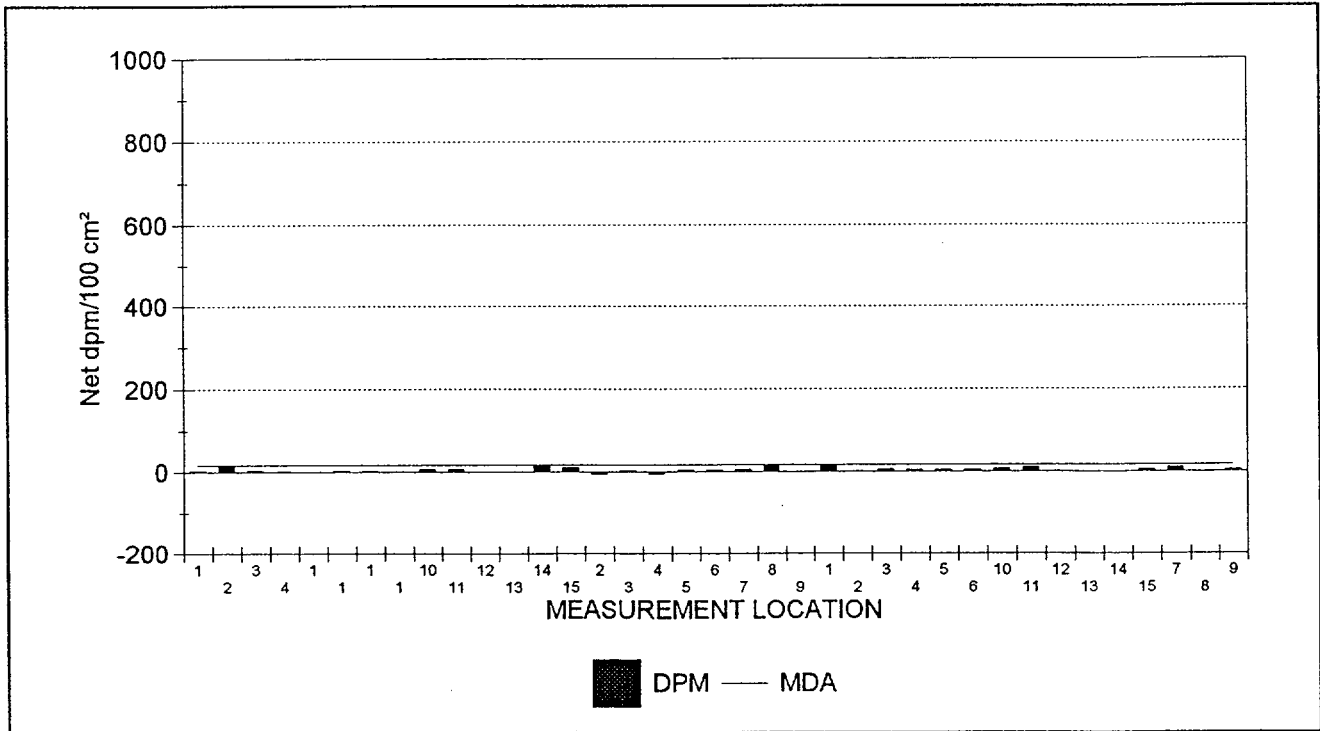
STATISTICAL SUMMARY

TESTS PERFORMED

	Net dpm/100 cm <sup>2</sup>
Mean	4.3
Maximum	14.8
Minimum	-5.4
Standard Deviation	5.1
MDA	16.2

Samples reported satisfy samples prescribed	YES
MDA <100 net dpm/100 cm <sup>2</sup>	YES
Results above 100 net dpm/100 cm <sup>2</sup>	0
Number of results above MDA	0

Samples Reported	37
Samples Prescribed	37



37 RESULTS ARE GRAPHED



Maine Yankee Atomic Power Plant Site Characterization

03/24/98

Removable Contamination - Gross Alpha Activity

Survey Package B1200 SURFACES & STRUCTURES  
Administration Center - Elevation 21 ft.

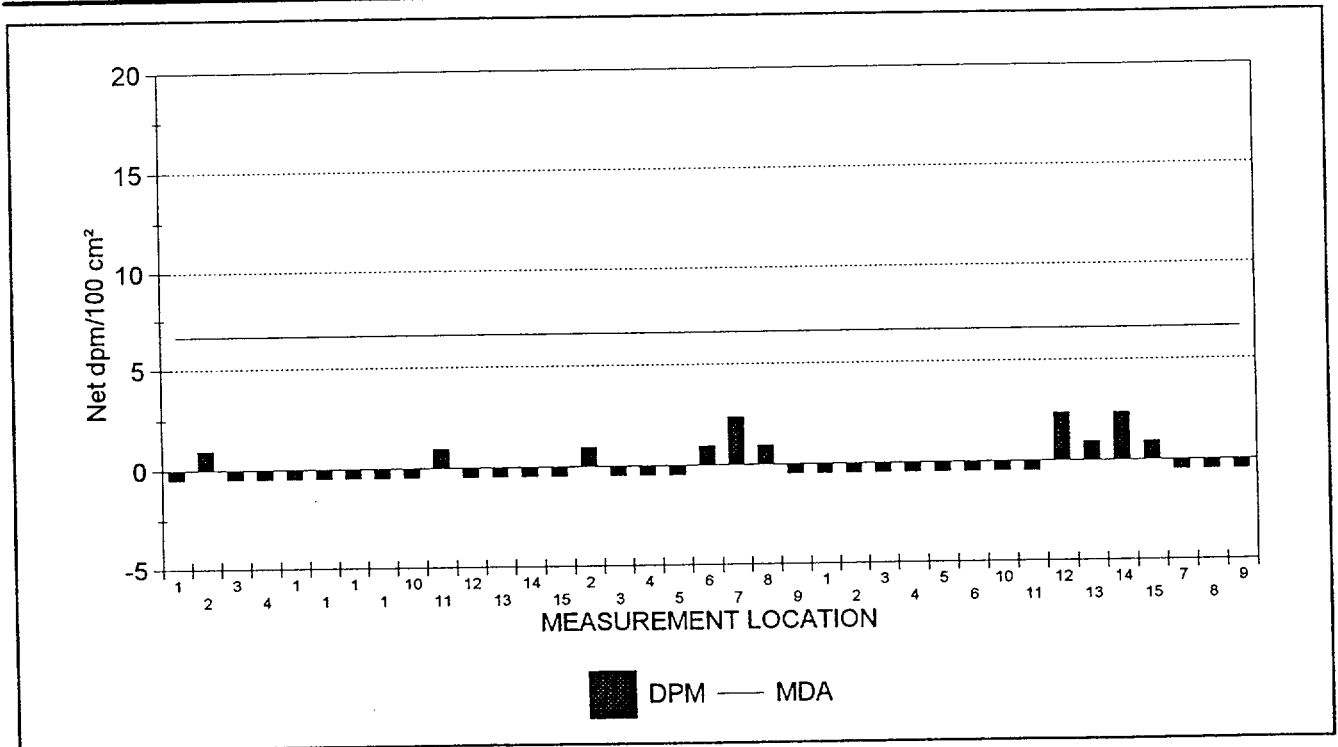
STATISTICAL SUMMARY

TESTS PERFORMED

	Net dpm/100 cm <sup>2</sup>
Mean	0.0
Maximum	2.4
Minimum	-0.5
Standard Deviation	0.9
MDA	6.7

Samples reported satisfy samples prescribed	YES
MDA < 10 net dpm/100 cm <sup>2</sup>	YES
Results above 20 net dpm/100 cm <sup>2</sup>	0
Number of results above MDA	0

Samples Reported	37
Samples Prescribed	37



37 RESULTS ARE GRAPHED





## Maine Yankee Atomic Power Plant Site Characterization

03/24/98

## Removable Contamination

Survey Package : B1200 SURFACES & STRUCTURES  
Administration Center - Elevation 21 ft.

## RESULTS LISTING - SORTED BY SURFACE CODE

XLS FILE	UNIT	SURFACE	REASON	COUNT	MSRMNT	ALPHA	BETA
				TIME	LOCATION		
SME1B040.XLS	O1	WS1	C01	2	9	-0.5	4.7
SME1B040.XLS	O1	WS1	C01	2	8	-0.5	-2.0
SME1B040.XLS	O1	WS1	C01	2	7	-0.5	9.8
SME1B040.XLS	O1	WS1	C01	2	15	0.9	6.4
SME1B040.XLS	O1	WS1	C01	2	14	2.4	-2.0
SME1B040.XLS	O1	WS1	C01	2	13	0.9	-2.0
SME1B040.XLS	O1	WS1	C01	2	12	2.4	1.3
SME1B040.XLS	O1	WS1	C01	2	11	-0.5	9.8
SME1B040.XLS	O1	WS1	C01	2	10	-0.5	8.1
SME1B040.XLS	O1	WS1	C01	2	6	-0.5	4.7
SME1B040.XLS	O1	WS1	C01	2	5	-0.5	4.7
SME1B040.XLS	O1	WS1	C01	2	4	-0.5	4.7
SME1B040.XLS	O1	WS1	C01	2	3	-0.5	6.4
SME1B040.XLS	O1	WS1	C01	2	2	-0.5	1.3
SME1B040.XLS	O1	WS1	C01	2	1	-0.5	14.8
SME1B040.XLS	O1	FL1	C01	2	9	-0.5	-0.3
SME1B040.XLS	O1	FL1	C01	2	8	0.9	13.1
SME1B040.XLS	O1	FL1	C01	2	7	2.4	6.4
SME1B040.XLS	O1	FL1	C01	2	6	0.9	4.7
SME1B040.XLS	O1	FL1	C01	2	5	-0.5	4.7
SME1B040.XLS	O1	FL1	C01	2	4	-0.5	-5.4
SME1B040.XLS	O1	FL1	C01	2	3	-0.5	3.0
SME1B040.XLS	O1	FL1	C01	2	2	0.9	-5.4
SME1B040.XLS	O1	FL1	C01	2	15	-0.5	9.8
SME1B040.XLS	O1	FL1	C01	2	14	-0.5	13.1
SME1B040.XLS	O1	FL1	C01	2	13	-0.5	-0.3
SME1B040.XLS	O1	FL1	C01	2	12	-0.5	-0.3
SME1B040.XLS	O1	FL1	C01	2	11	0.9	8.1
SME1B040.XLS	O1	FL1	C01	2	10	-0.5	8.1
SME1B040.XLS	O1	FL1	C01	2	1	-0.5	1.3
SME1B040.XLS	O1	EQ3	C01	2	1	-0.5	3.0
SME1B040.XLS	O1	EQ2	C01	2	1	-0.5	3.0
SME1B040.XLS	O1	EQ1	C01	2	1	-0.5	-0.3
SME1B040.XLS	O1	CL1	C01	2	4	-0.5	1.3
SME1B040.XLS	O1	CL1	C01	2	3	-0.5	4.7
SME1B040.XLS	O1	CL1	C01	2	2	0.9	13.1
SME1B040.XLS	O1	CL1	C01	2	1	-0.5	3.0

NOTES: Activity reported in net dpm/100 cm<sup>2</sup>. Count times are reported in minutes.

Underlined values exceed the associated MDA.

Bold values exceed 100.00 dpm/100 cm<sup>2</sup> (beta activity) and/or 20.00 dpm/100 cm<sup>2</sup> (alpha activity).

37 results are listed.



Maine Yankee Atomic Power Plant Site Characterization

03/22/98

Gamma Exposure Rate Measurements At 1 Meter

Survey Package B1200 SURFACES & STRUCTURES  
Administration Center - Elevation 21 ft.

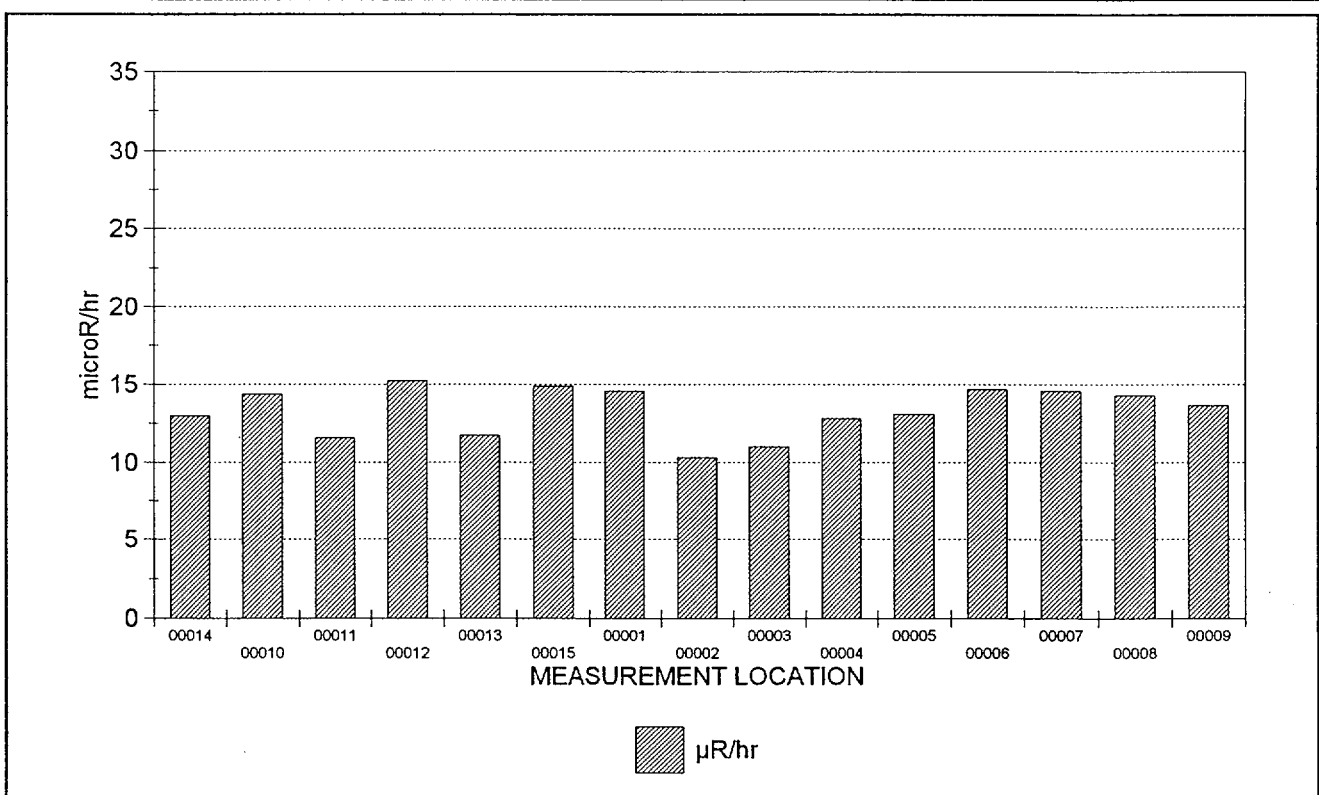
STATISTICAL SUMMARY

TESTS PERFORMED

	$\mu\text{R/hr}$
Mean	13.3
Maximum	15.2
Minimum	10.3
Standard Deviation	1.5

Samples reported satisfy samples prescribed	YES
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Samples Reported	15
Samples Prescribed	15



15 RESULTS ARE GRAPHED



## Maine Yankee Atomic Power Plant Site Characterization

03/22/98

## Gamma Exposure Rate Measurements At 1 Meter

Survey Package : B1200 SURFACES & STRUCTURES  
Administration Center - Elevation 21 ft.

## RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	RESULT
251 (2)	01	FL1	B0001	C01	60.00	00014	13.0
251 (2)	01	FL1	B0026	C01	60.00	00010	14.4
251 (2)	01	FL1	B0026	C01	60.00	00011	11.6
251 (2)	01	FL1	B0026	C01	60.00	00012	<b>15.2</b>
251 (2)	01	FL1	B0026	C01	60.00	00013	11.7
251 (2)	01	FL1	B0026	C01	60.00	00015	14.9
251 (2)	01	FL1	B0027	C01	60.00	00001	14.6
251 (2)	01	FL1	B0027	C01	60.00	00002	10.3
251 (2)	01	FL1	B0027	C01	60.00	00003	11.0
251 (2)	01	FL1	B0027	C01	60.00	00004	12.8
251 (2)	01	FL1	B0027	C01	60.00	00005	13.1
251 (2)	01	FL1	B0027	C01	60.00	00006	14.7
251 (2)	01	FL1	B0027	C01	60.00	00007	14.6
251 (2)	01	FL1	B0027	C01	60.00	00008	14.3
251 (2)	01	FL1	B0027	C01	60.00	00009	13.6

NOTES: Exposure rates reported in net  $\mu\text{R/hr}$ . Count times are reported in seconds.  
Underlined results did not meet the minimum required count time.  
Bold values exceed 15  $\mu\text{R/hr}$ .  
15 results are listed.



## Maine Yankee Atomic Power Plant Site Characterization

## DOWNLOAD FILE & SURVEY INSTRUMENTATION CALIBRATION SUMMARY

03/22/98

Gamma Exposure Rate Measurements At 1 Meter

Survey Package : B1200 SURFACES & STRUCTURES  
Administration Center - Elevation 21 ft.

SURVEY DATE	FILE #	M2350		DETECTOR			TECHNICIAN
		INST S/N	CAL DUE	MODEL	S/N	CAL DUE	
12/31/97	251 (2)	126175	5/7/98	44-2	126809	5/12/98	

CALIBRATION DATES VERIFIED AS ACCEPTABLE



Maine Yankee Atomic Power Plant Site Characterization

04/01/98

**CHARACTERIZATION SUMMARY**

SURVEY PACKAGE NUMBER :B1300

SURFACES & STRUCTURES

PACKAGE DESCRIPTION  
Includes Three Levels

WART Building - All Elevations

SURVEY AREA DESCRIPTION  
WART Building

GENERAL HISTORICAL INFORMATION (Operational history, etc.)

The WART Building, located on the north side of the Turbine Bldg, is a three-story administrative building constructed in 1975. Construction is concrete floor and painted block walls. The building contains offices and the M&TE calibration room. Most of the floor is carpeted, with vinyl on stairways. All ceilings are dropped acoustic tile.

SUMMARY OF CHARACTERIZATION ACTIVITIES

Survey units were established for the areas as shown in the following Summary of Survey Units. Maps with the survey measurement locations for this package are included on the following pages.

Performed a scan of approximately five square meters at 72 survey measurement locations indicated on the survey map(s). This was approximately 10% of the accessible surface area.

Collected direct measurements for total beta activity at 72 survey measurement locations at the highest location identified in the scan. If an elevated location was not observed, the measurement was collected at an arbitrary location, selected by the technician, within the five square meter scanned area.

Collected smear samples to analyze for removable alpha and beta activity at the same 72 survey locations of direct measurements for total beta activity within the five square meter scanned area.

Collected one meter gamma exposure rate measurements at 24 survey locations for direct measurements for total beta activity on floor surfaces.

The survey result statistical summaries, graphs and results listings are shown in the following individual reports including calibration summaries for the instruments used for each measurement type.

CHARACTERIZATION SURVEY RESULTS

- o There were 6 direct measurements for total beta activity above MDA (665.9 dpm/100cm<sup>2</sup>) and no results greater than 2000 dpm/100cm<sup>2</sup>. The maximum measurement result was 1,164 dpm/100cm<sup>2</sup>.
- o There were no measurements for removable beta activity above MDA (16.2 dpm/100cm<sup>2</sup>).
- o There were no measurements for removable alpha activity above MDA (6.7 dpm/100cm<sup>2</sup>).
- o The average and maximum one meter exposure rate measurement results were 11.1 µR/hr and 12.9 µR/hr respectively.

REFERENCES (Documents, Interviews)



Maine Yankee Atomic Power Plant Site Characterization

SUMMARY OF SURVEY UNIT(S)

03/24/98

OUTPUT BATCH SN = 227

**PACKAGE B1300 SURFACES & STRUCTURES**  
 WART Building - All Elevations  
 Includes Three Levels

UNIT(S)	SURFACE(S)
01 - Level 1	CL1 (Ceiling) FL1 (Floor) WS1 (Walls)
02 - Level 2	CL1 (Ceiling) FL1 (Floor) WS1 (Walls)
03 - Level 3	CL1 (Ceiling) FL1 (Floor) WS1 (Walls)

**REASON(S)** CHARACTERIZATION SURVEY (C01)

MATERIALS	MAT'L CODE	MATERIAL DESCRIPTION	BETA BKGD (dpm/100 cm <sup>2</sup> )
	B0003	CINDER BLOCK - PAINTED (INTERIOR)	478.0
	B0007	CERAMIC TILE - BARE (5X12)	1,109.0
	B0027	CARPET (OVER CONCRETE)	0.0
	B0031	METAL - BARE	0.0
	B0033	CEILING TILE - FIBERBOARD	0.0
	B0035	DRYWALL - PAINTED	0.0
	B0036	METAL - PAINTED	0.0
	B0043	CERAMIC TILE - BARE (<5X12)	1,109.0
	B9999	OTHER	0.0



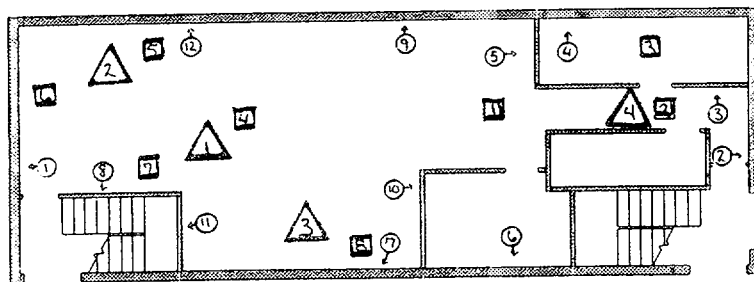
Maine Yankee Atomic Power Plant Site Characterization

SURVEY PACKAGE B1300

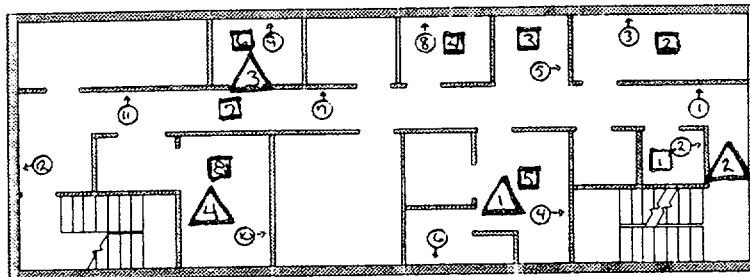
B13-

- ⊙ - survey locations for walls, 01WS1, 02W-1, 03WS1
- ⊞ - survey locations for floors, 01FL1, 02FL1, 03FL1
- ⊛ - survey locations for equipment
- ⊠ - survey locations for ceilings, 01CL1, 02CL1, 03CL1

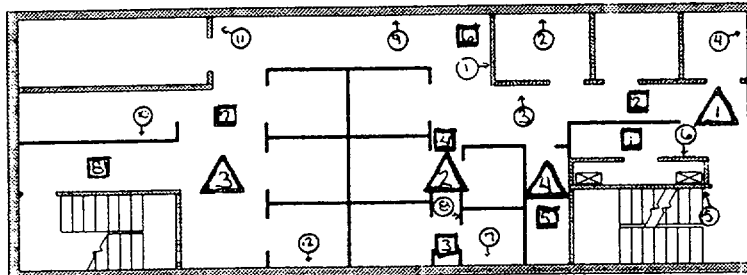
New Office Building (WART Bldg)



First Floor / I & C Shop



Second Floor



Third Floor



Maine Yankee Atomic Power Plant Site Characterization

03/24/98

Direct Measurements For Total Beta Activity

Survey Package B1300 SURFACES & STRUCTURES  
 WART Building - All Elevations  
 Includes Three Levels

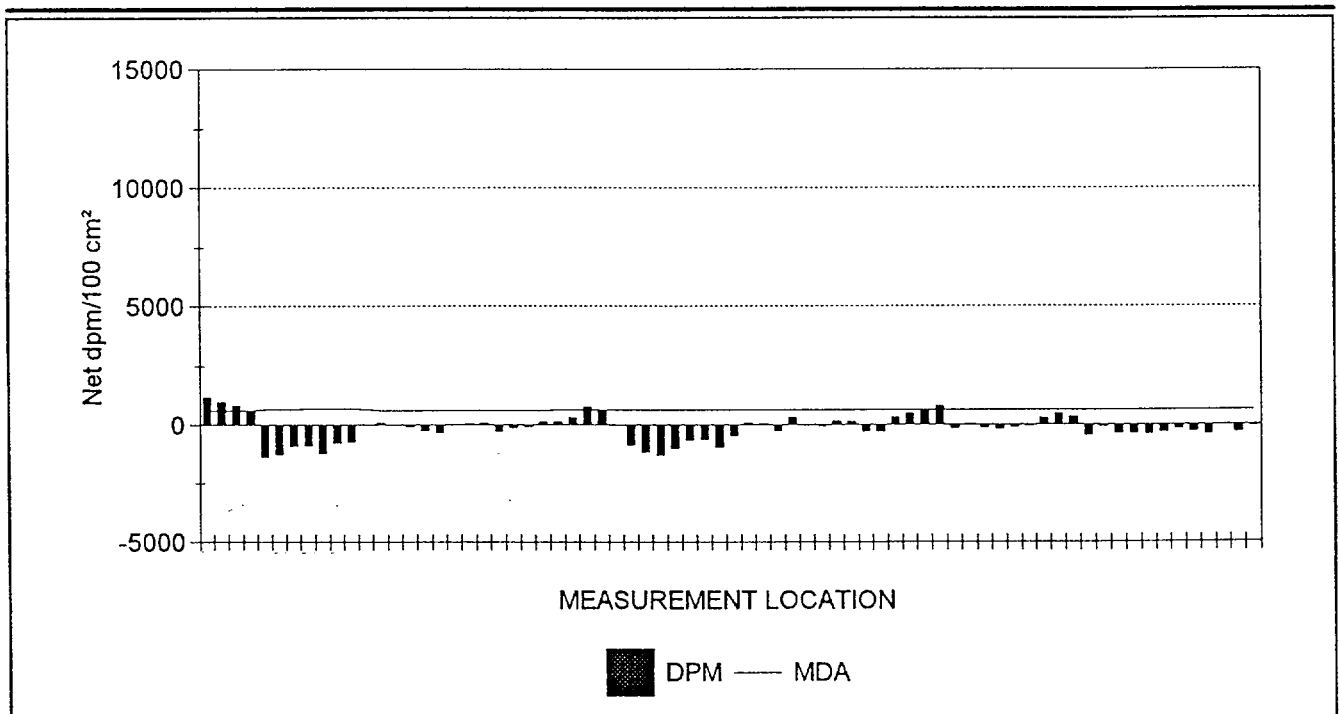
STATISTICAL SUMMARY

TESTS PERFORMED

	Net dpm/100 cm <sup>2</sup>
Mean	-146.3
Maximum	1,163.8
Minimum	-1,381.3
Standard Deviation	542.5
MDA	665.9

Samples reported satisfy samples prescribed	YES
MDA <2000 net dpm/100 cm <sup>2</sup>	YES
Results above 2000 net dpm/100 cm <sup>2</sup>	0
Number of results above MDA	6

Samples Reported	72
Samples Prescribed	72



72 RESULTS ARE GRAPHED





## Maine Yankee Atomic Power Plant Site Characterization

03/24/98

## Direct Measurements For Total Beta Activity

Survey Package : B1300 SURFACES & STRUCTURES  
 WART Building - All Elevations  
 Includes Three Levels

## RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	MDA	RESULT
269 (2)	01	CL1	B0033	C01	10	00001	596.3	<u>1,163.8</u>
267 (2)	01	CL1	B0033	C01	10	00003	600.4	<u>965.5</u>
267 (2)	01	CL1	B0033	C01	10	00004	600.4	<u>808.6</u>
269 (2)	01	CL1	B0036	C01	10	00002	596.3	<u>610.2</u>
247 (2)	01	FL1	B0007	C01	10	00001	641.7	-1,381.3
247 (2)	01	FL1	B0007	C01	10	00002	641.7	-1,268.1
247 (2)	01	FL1	B0007	C01	10	00004	641.7	-905.9
246 (2)	01	FL1	B0007	C01	10	00005	665.9	-881.7
246 (2)	01	FL1	B0007	C01	10	00006	665.9	-1,215.2
246 (2)	01	FL1	B0007	C01	10	00007	665.9	-792.8
246 (2)	01	FL1	B0007	C01	10	00008	665.9	-726.1
247 (2)	01	FL1	B0027	C01	10	00003	641.7	-0.6
269 (2)	01	WS1	B0003	C01	10	00003	596.3	65.8
269 (2)	01	WS1	B0003	C01	10	00004	596.3	-22.8
269 (2)	01	WS1	B0003	C01	10	00005	596.3	-89.3
269 (2)	01	WS1	B0003	C01	10	00006	596.3	-266.4
267 (2)	01	WS1	B0003	C01	10	00007	600.4	-341.7
267 (2)	01	WS1	B0003	C01	10	00008	600.4	-5.5
267 (2)	01	WS1	B0003	C01	10	00010	600.4	61.7
267 (2)	01	WS1	B0003	C01	10	00011	600.4	84.1
269 (2)	01	WS1	B0036	C01	10	00001	596.3	-275.6
269 (2)	01	WS1	B0036	C01	10	00002	596.3	-142.7
267 (2)	01	WS1	B0036	C01	10	00009	600.4	-87.8
267 (2)	01	WS1	B0036	C01	10	00012	600.4	136.3
257 (2)	02	CL1	B0031	C01	10	00003	637.6	121.3
256 (2)	02	CL1	B0033	C01	10	00001	626.9	305.4
256 (2)	02	CL1	B0033	C01	10	00002	626.9	<u>757.8</u>
257 (2)	02	CL1	B0033	C01	10	00004	637.6	613.8
256 (2)	02	FL1	B0027	C01	10	00004	626.9	-33.9
256 (2)	02	FL1	B0043	C01	10	00001	626.9	-848.9
256 (2)	02	FL1	B0043	C01	10	00002	626.9	-1,165.6
256 (2)	02	FL1	B0043	C01	10	00003	626.9	-1,301.3
257 (2)	02	FL1	B0043	C01	10	00005	637.6	-1,010.1
257 (2)	02	FL1	B0043	C01	10	00006	637.6	-651.9
257 (2)	02	FL1	B0043	C01	10	00007	637.6	-629.5
257 (2)	02	FL1	B0043	C01	10	00008	637.6	-965.3
256 (2)	02	WS1	B0003	C01	10	00001	626.9	-466.7
256 (2)	02	WS1	B0003	C01	10	00002	626.9	76.2
256 (2)	02	WS1	B0003	C01	10	00003	626.9	53.6
256 (2)	02	WS1	B0003	C01	10	00004	626.9	-263.1

NOTES: Activity reported in net dpm/100 cm<sup>2</sup>. Count times are reported in seconds.  
 Underlined values exceed the MDA.  
 Bold values exceed 2000 dpm/100 cm<sup>2</sup>.



## Maine Yankee Atomic Power Plant Site Characterization

03/24/98

## Direct Measurements For Total Beta Activity

Survey Package : B1300 SURFACES & STRUCTURES  
 WART Building - All Elevations  
 Includes Three Levels

## RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	MDA	RESULT
256 (2)	02	WS1	B0003	C01	10	00005	626.9	325.0
257 (2)	02	WS1	B0035	C01	10	00007	637.6	-35.4
257 (2)	02	WS1	B0035	C01	10	00010	637.6	-57.8
257 (2)	02	WS1	B0035	C01	10	00011	637.6	143.7
256 (2)	02	WS1	B0036	C01	10	00006	626.9	124.4
257 (2)	02	WS1	B0036	C01	10	00008	637.6	-281.7
257 (2)	02	WS1	B0036	C01	10	00009	637.6	-281.7
257 (2)	02	WS1	B0036	C01	10	00012	637.6	300.4
256 (2)	03	CL1	B0033	C01	10	00001	626.9	463.7
257 (2)	03	CL1	B0033	C01	10	00003	637.6	591.4
257 (2)	03	CL1	B0033	C01	10	00004	637.6	<u>770.5</u>
256 (2)	03	CL1	B0036	C01	10	00002	626.9	-147.0
256 (2)	03	FL1	B0027	C01	10	00001	626.9	33.9
256 (2)	03	FL1	B0027	C01	10	00002	626.9	-124.4
256 (2)	03	FL1	B0027	C01	10	00003	626.9	-169.7
256 (2)	03	FL1	B0027	C01	10	00004	626.9	-101.8
257 (2)	03	FL1	B0027	C01	10	00005	637.6	-57.8
257 (2)	03	FL1	B0027	C01	10	00006	637.6	278.0
257 (2)	03	FL1	B0027	C01	10	00007	637.6	457.1
257 (2)	03	FL1	B0027	C01	10	00008	637.6	345.1
256 (2)	03	WS1	B0003	C01	10	00005	626.9	-444.1
256 (2)	03	WS1	B0035	C01	10	00006	626.9	-79.2
256 (2)	03	WS1	B0036	C01	10	00001	626.9	-373.2
256 (2)	03	WS1	B0036	C01	10	00002	626.9	-373.2
256 (2)	03	WS1	B0036	C01	10	00003	626.9	-395.9
256 (2)	03	WS1	B0036	C01	10	00004	626.9	-305.4
257 (2)	03	WS1	B0036	C01	10	00007	637.6	-192.2
257 (2)	03	WS1	B0036	C01	10	00009	637.6	-281.7
257 (2)	03	WS1	B0036	C01	10	00011	637.6	-393.7
257 (2)	03	WS1	B0036	C01	10	00012	637.6	9.3
257 (2)	03	WS1	B9999	C01	10	00008	637.6	-304.1
257 (2)	03	WS1	B9999	C01	10	00010	637.6	-57.8

NOTES: Activity reported in net dpm/100 cm<sup>2</sup>. Count times are reported in seconds.  
 Underlined values exceed the MDA.  
 Bold values exceed 2000 dpm/100 cm<sup>2</sup>.  
 72 results are listed.



## Maine Yankee Atomic Power Plant Site Characterization

## DOWNLOAD FILE &amp; SURVEY INSTRUMENTATION CALIBRATION SUMMARY

03/24/98

## Direct Measurements For Total Beta Activity

Survey Package : B1300 SURFACES & STRUCTURES  
 WART Building - All Elevations  
 Includes Three Levels

SURVEY DATE	FILE #	M2350		DETECTOR			PRE EFF	TECHNICIAN
		INST S/N	CAL DUE	MODEL	S/N	CAL DUE		
12/31/97	246 (2)	098639	4/16/98	43-106	133876	4/30/98	.21	JJP1813
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
12/31/97	247 (2)	126206	3/27/98	43-106	133860	3/30/98	.21	LAC4593
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
1/1/98	256 (2)	126206	3/27/98	43-106	133860	3/30/98	.21	LAC4593
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
1/1/98	257 (2)	098639	4/16/98	43-106	133876	4/30/98	.21	JJP1813
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
1/2/98	267 (2)	098639	4/16/98	43-106	133876	4/30/98	.21	JJP1813
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
1/2/98	269 (2)	126206	3/27/98	43-106	133860	3/30/98	.22	LAC4593
CALIBRATION DATES VERIFIED AS ACCEPTABLE								



Maine Yankee Atomic Power Plant Site Characterization

03/24/98

Removable Contamination - Gross Beta Activity

Survey Package B1300 SURFACES & STRUCTURES  
 WART Building - All Elevations  
 Includes Three Levels

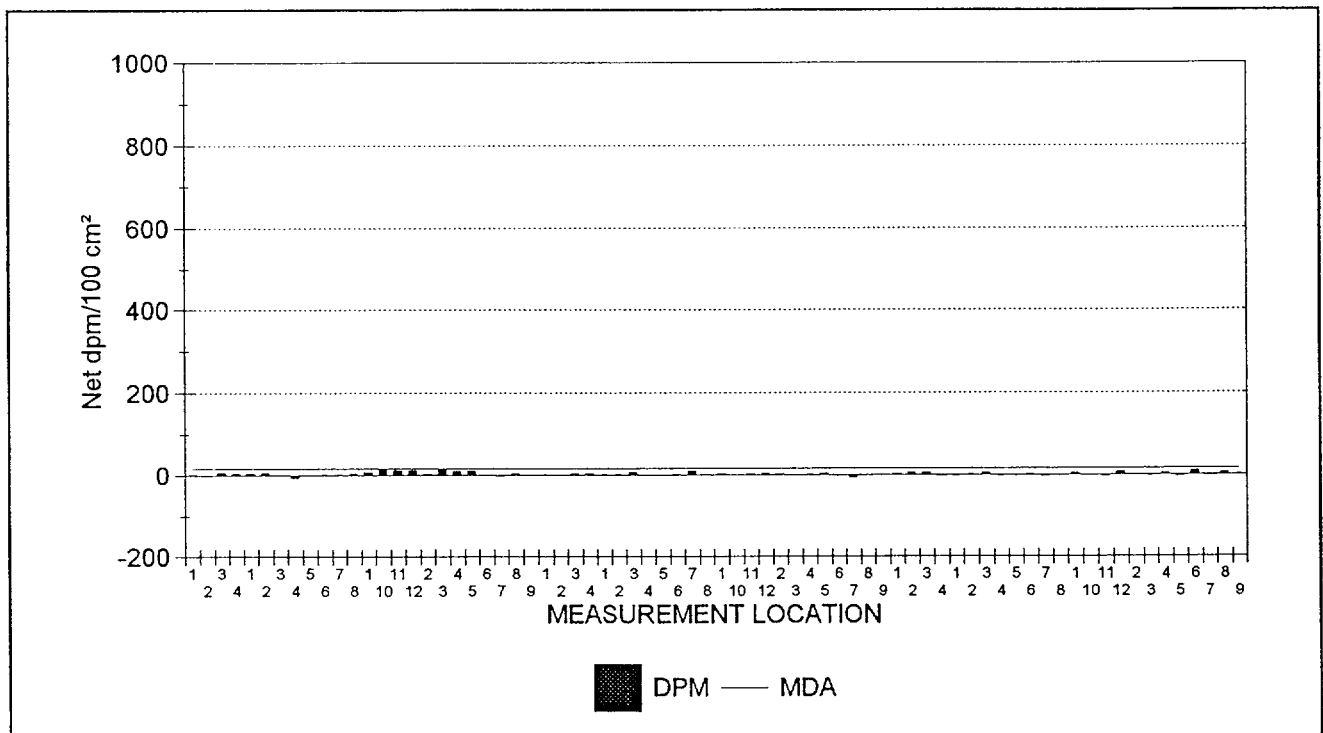
STATISTICAL SUMMARY

TESTS PERFORMED

	Net dpm/100 cm <sup>2</sup>
Mean	2.6
Maximum	13.1
Minimum	-5.4
Standard Deviation	4.5
MDA	16.2

Samples reported satisfy samples prescribed	YES
MDA <100 net dpm/100 cm <sup>2</sup>	YES
Results above 100 net dpm/100 cm <sup>2</sup>	0
Number of results above MDA	0

Samples Reported	72
Samples Prescribed	72



72 RESULTS ARE GRAPHED



Maine Yankee Atomic Power Plant Site Characterization

03/24/98

Removable Contamination - Gross Alpha Activity

Survey Package B1300 SURFACES & STRUCTURES  
 WART Building - All Elevations  
 Includes Three Levels

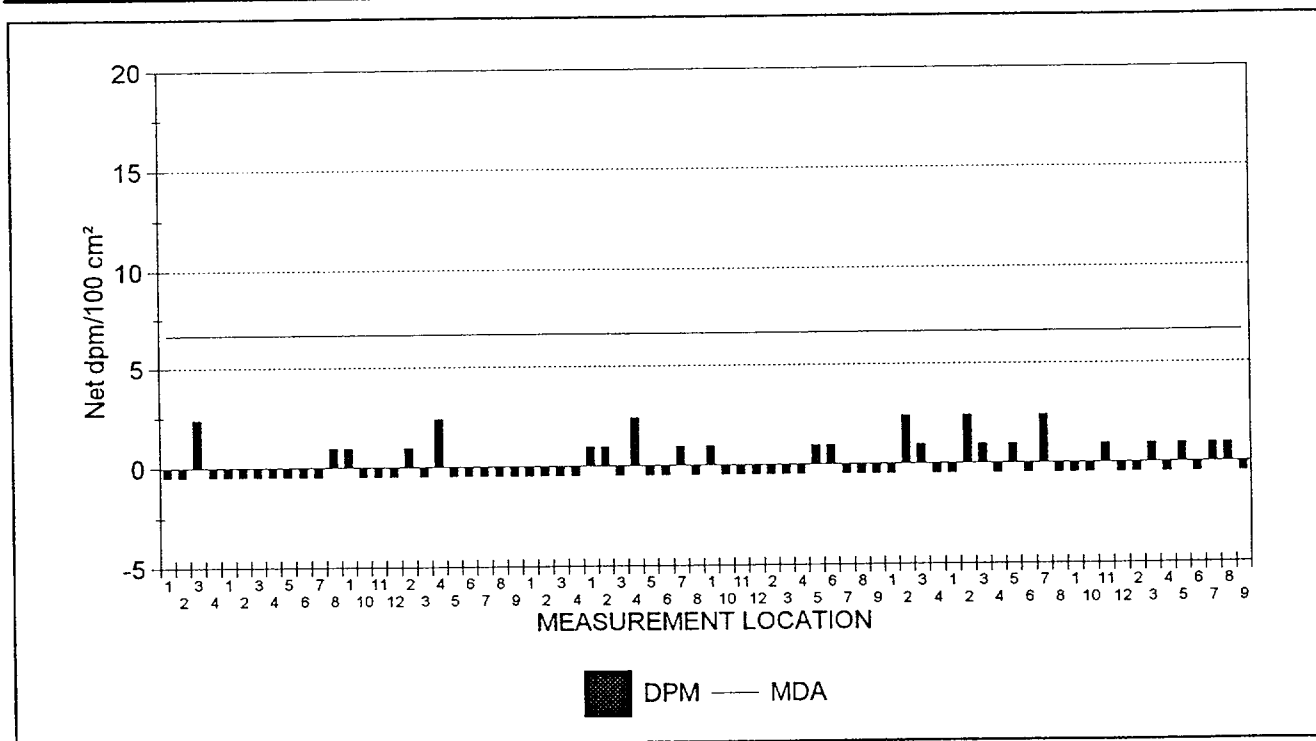
STATISTICAL SUMMARY

TESTS PERFORMED

	Net dpm/100 cm <sup>2</sup>
Mean	0.1
Maximum	2.4
Minimum	-0.5
Standard Deviation	0.9
MDA	6.7

Samples reported satisfy samples prescribed	YES
MDA <10 net dpm/100 cm <sup>2</sup>	YES
Results above 20 net dpm/100 cm <sup>2</sup>	0
Number of results above MDA	0

Samples Reported	72
Samples Prescribed	72



72 RESULTS ARE GRAPHED



## Maine Yankee Atomic Power Plant Site Characterization

03/24/98

## Removable Contamination

Survey Package : B1300 SURFACES &amp; STRUCTURES

WART Building - All Elevations

Includes Three Levels

## RESULTS LISTING - SORTED BY SURFACE CODE

XLS FILE	UNIT	SURFACE	REASON	COUNT	MSRMNT	ALPHA	BETA
				TIME	LOCATION		
SME1B041.XLS	03	WS1	C01	2	9	-0.5	1.3
SME1B041.XLS	03	WS1	C01	2	8	0.9	6.4
SME1B041.XLS	03	WS1	C01	2	7	0.9	-2.0
SME1B041.XLS	03	WS1	C01	2	6	-0.5	9.8
SME1B041.XLS	03	WS1	C01	2	5	0.9	-3.7
SME1B041.XLS	03	WS1	C01	2	4	-0.5	4.7
SME1B041.XLS	03	WS1	C01	2	3	0.9	-2.0
SME1B041.XLS	03	WS1	C01	2	2	-0.5	-0.3
SME1B041.XLS	03	WS1	C01	2	12	-0.5	8.1
SME1B041.XLS	03	WS1	C01	2	11	0.9	-3.7
SME1B041.XLS	03	WS1	C01	2	10	-0.5	-2.0
SME1B041.XLS	03	WS1	C01	2	1	-0.5	4.7
SME1B041.XLS	03	FL1	C01	2	8	-0.5	-2.0
SME1B041.XLS	03	FL1	C01	2	7	2.4	-3.7
SME1B041.XLS	03	FL1	C01	2	6	-0.5	1.3
SME1B041.XLS	03	FL1	C01	2	5	0.9	-2.0
SME1B041.XLS	03	FL1	C01	2	4	-0.5	-2.0
SME1B041.XLS	03	FL1	C01	2	3	0.9	6.4
SME1B041.XLS	03	FL1	C01	2	2	2.4	1.3
SME1B041.XLS	03	FL1	C01	2	1	-0.5	-2.0
SME1B041.XLS	03	CL1	C01	2	4	-0.5	-2.0
SME1B041.XLS	03	CL1	C01	2	3	0.9	6.4
SME1B041.XLS	03	CL1	C01	2	2	2.4	6.4
SME1B041.XLS	03	CL1	C01	2	1	-0.5	3.0
SME1B041.XLS	02	WS1	C01	2	9	-0.5	-0.3
SME1B041.XLS	02	WS1	C01	2	8	-0.5	-0.3
SME1B041.XLS	02	WS1	C01	2	7	-0.5	-5.4
SME1B041.XLS	02	WS1	C01	2	6	0.9	-2.0
SME1B041.XLS	02	WS1	C01	2	5	0.9	4.7
SME1B041.XLS	02	WS1	C01	2	4	-0.5	1.3
SME1B041.XLS	02	WS1	C01	2	3	-0.5	-0.3
SME1B041.XLS	02	WS1	C01	2	2	-0.5	3.0
SME1B041.XLS	02	WS1	C01	2	12	-0.5	4.7
SME1B041.XLS	02	WS1	C01	2	11	-0.5	3.0
SME1B041.XLS	02	WS1	C01	2	10	-0.5	-0.3
SME1B041.XLS	02	WS1	C01	2	1	0.9	3.0
SME1B041.XLS	02	FL1	C01	2	8	-0.5	1.3
SME1B041.XLS	02	FL1	C01	2	7	0.9	9.8
SME1B041.XLS	02	FL1	C01	2	6	-0.5	1.3
SME1B041.XLS	02	FL1	C01	2	5	-0.5	-0.3

NOTES: Activity reported in net dpm/100 cm<sup>2</sup>. Count times are reported in minutes.  
 Underlined values exceed the associated MDA.  
 Bold values exceed 100.00 dpm/100 cm<sup>2</sup> (beta activity) and/or 20.00 dpm/100 cm<sup>2</sup> (alpha activity).



## Maine Yankee Atomic Power Plant Site Characterization

03/24/98

## Removable Contamination

Survey Package : B1300 SURFACES &amp; STRUCTURES

WART Building - All Elevations

Includes Three Levels

## RESULTS LISTING - SORTED BY SURFACE CODE

XLS FILE	UNIT	SURFACE	REASON	COUNT	MSRMNT	ALPHA	BETA
				TIME	LOCATION		
SME1B041.XLS	02	FL1	C01	2	4	2.4	-0.3
SME1B041.XLS	02	FL1	C01	2	3	-0.5	8.1
SME1B041.XLS	02	FL1	C01	2	2	0.9	1.3
SME1B041.XLS	02	FL1	C01	2	1	0.9	1.3
SME1B041.XLS	02	CL1	C01	2	4	-0.5	4.7
SME1B041.XLS	02	CL1	C01	2	3	-0.5	4.7
SME1B041.XLS	02	CL1	C01	2	2	-0.5	1.3
SME1B041.XLS	02	CL1	C01	2	1	-0.5	1.3
SME1B041.XLS	01	WS1	C01	2	9	-0.5	-0.3
SME1B041.XLS	01	WS1	C01	2	8	-0.5	4.7
SME1B041.XLS	01	WS1	C01	2	7	-0.5	-2.0
SME1B041.XLS	01	WS1	C01	2	6	-0.5	1.3
SME1B041.XLS	01	WS1	C01	2	5	-0.5	9.8
SME1B041.XLS	01	WS1	C01	2	4	2.4	9.8
SME1B041.XLS	01	WS1	C01	2	3	-0.5	13.1
SME1B041.XLS	01	WS1	C01	2	2	0.9	3.0
SME1B041.XLS	01	WS1	C01	2	12	-0.5	11.4
SME1B041.XLS	01	WS1	C01	2	11	-0.5	11.4
SME1B041.XLS	01	WS1	C01	2	10	-0.5	13.1
SME1B041.XLS	01	WS1	C01	2	1	0.9	8.1
SME1B041.XLS	01	FL1	C01	2	8	0.9	4.7
SME1B041.XLS	01	FL1	C01	2	7	-0.5	1.3
SME1B041.XLS	01	FL1	C01	2	6	-0.5	1.3
SME1B041.XLS	01	FL1	C01	2	5	-0.5	-0.3
SME1B041.XLS	01	FL1	C01	2	4	-0.5	-5.4
SME1B041.XLS	01	FL1	C01	2	3	-0.5	-0.3
SME1B041.XLS	01	FL1	C01	2	2	-0.5	6.4
SME1B041.XLS	01	FL1	C01	2	1	-0.5	4.7
SME1B041.XLS	01	CL1	C01	2	4	-0.5	4.7
SME1B041.XLS	01	CL1	C01	2	3	2.4	8.1
SME1B041.XLS	01	CL1	C01	2	2	-0.5	-2.0
SME1B041.XLS	01	CL1	C01	2	1	-0.5	1.3

NOTES: Activity reported in net dpm/100 cm<sup>2</sup>. Count times are reported in minutes.  
 Underlined values exceed the associated MDA.  
 Bold values exceed 100.00 dpm/100 cm<sup>2</sup> (beta activity) and/or 20.00 dpm/100 cm<sup>2</sup> (alpha activity).  
 72 results are listed.



Maine Yankee Atomic Power Plant Site Characterization

DATAFILE & TENNELEC CALIBRATION SUMMARY

03/24/98

Removable Contamination

Survey Package : B1300 SURFACES & STRUCTURES  
WART Building - All Elevations  
Includes Three Levels

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SURVEYDATE	XLS FILE	INST ID	S/N	CAL DUE	LAB TECHNICIAN
2/11/98	SME1B041.XLS	1	14131	8/7/98	SNM

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CALIBRATION DATE VERIFIED AS ACCEPTABLE

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Maine Yankee Atomic Power Plant Site Characterization

03/24/98

Gamma Exposure Rate Measurements At 1 Meter

Survey Package B1300 SURFACES & STRUCTURES  
 WART Building - All Elevations  
 Includes Three Levels

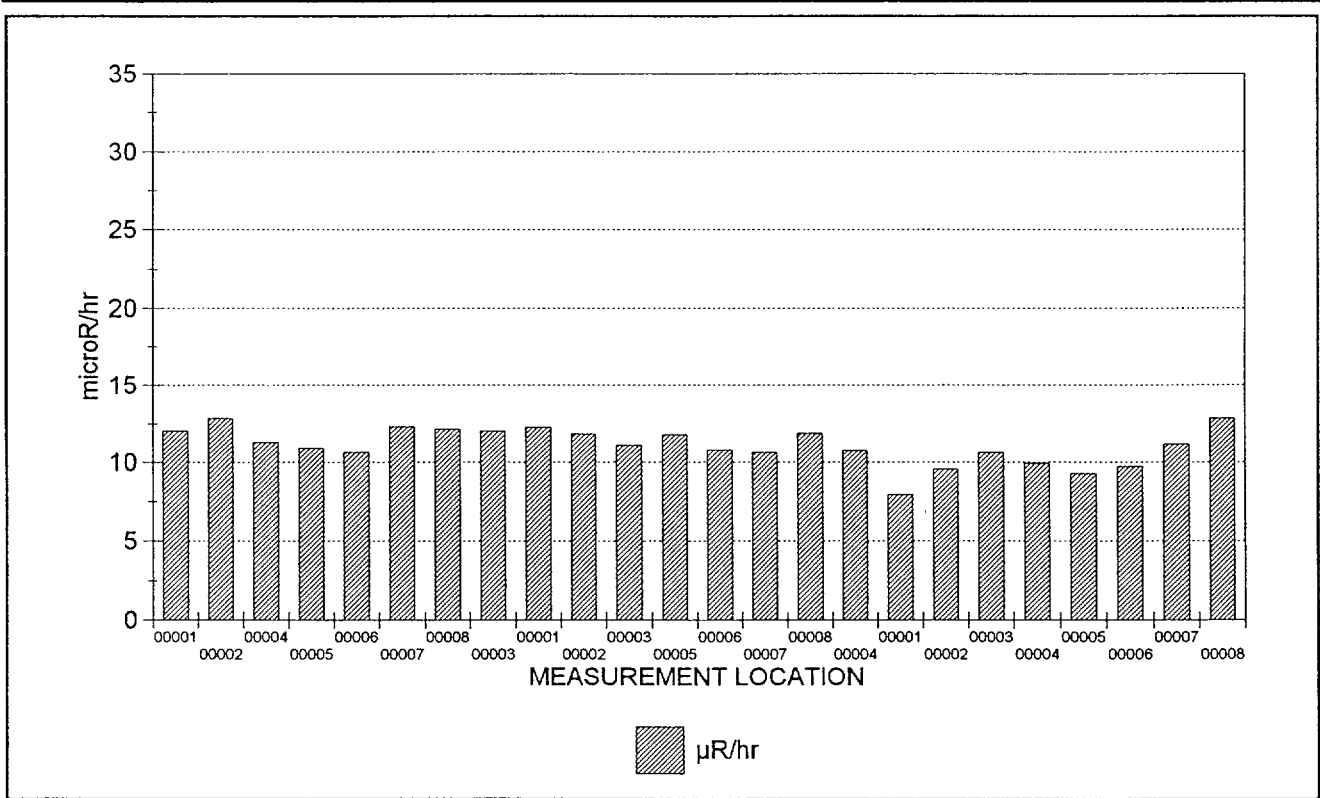
STATISTICAL SUMMARY

TESTS PERFORMED

	$\mu\text{R/hr}$
Mean	11.1
Maximum	12.9
Minimum	7.9
Standard Deviation	1.2

Samples reported satisfy samples prescribed	YES
---------------------------------------------	-----

Samples Reported	24
Samples Prescribed	24



24 RESULTS ARE GRAPHED



## Maine Yankee Atomic Power Plant Site Characterization

03/24/98

## Gamma Exposure Rate Measurements At 1 Meter

Survey Package : B1300 SURFACES &amp; STRUCTURES

WART Building - All Elevations

Includes Three Levels

## RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	RESULT
275 (2)	01	FL1	B0007	C01	60.00	00001	12.0
275 (2)	01	FL1	B0007	C01	60.00	00002	12.9
275 (2)	01	FL1	B0007	C01	60.00	00004	11.3
275 (2)	01	FL1	B0007	C01	60.00	00005	10.9
275 (2)	01	FL1	B0007	C01	60.00	00006	10.6
275 (2)	01	FL1	B0007	C01	60.00	00007	12.3
275 (2)	01	FL1	B0007	C01	60.00	00008	12.1
275 (2)	01	FL1	B0027	C01	60.00	00003	12.1
275 (2)	02	FL1	B0007	C01	60.00	00001	12.3
275 (2)	02	FL1	B0007	C01	60.00	00002	11.8
275 (2)	02	FL1	B0007	C01	60.00	00003	11.1
275 (2)	02	FL1	B0007	C01	60.00	00005	11.8
275 (2)	02	FL1	B0007	C01	60.00	00006	10.8
275 (2)	02	FL1	B0007	C01	60.00	00007	10.6
275 (2)	02	FL1	B0007	C01	60.00	00008	11.9
275 (2)	02	FL1	B0027	C01	60.00	00004	10.7
275 (2)	03	FL1	B0027	C01	60.00	00001	7.9
275 (2)	03	FL1	B0027	C01	60.00	00002	9.5
275 (2)	03	FL1	B0027	C01	60.00	00003	10.6
275 (2)	03	FL1	B0027	C01	60.00	00004	9.9
275 (2)	03	FL1	B0027	C01	60.00	00005	9.3
275 (2)	03	FL1	B0027	C01	60.00	00006	9.7
275 (2)	03	FL1	B0027	C01	60.00	00007	11.2
275 (2)	03	FL1	B0027	C01	60.00	00008	12.9

NOTES: Exposure rates reported in net  $\mu\text{R/hr}$ . Count times are reported in seconds.  
 Underlined results did not meet the minimum required count time.  
 Bold values exceed 15  $\mu\text{R/hr}$ .  
 24 results are listed.



## Maine Yankee Atomic Power Plant Site Characterization

## DOWNLOAD FILE &amp; SURVEY INSTRUMENTATION CALIBRATION SUMMARY

03/24/98

Gamma Exposure Rate Measurements At 1 Meter

Survey Package : B1300 SURFACES & STRUCTURES  
WART Building - All Elevations  
Includes Three Levels

SURVEY DATE	FILE #	M2350		DETECTOR			TECHNICIAN
		INST S/N	CAL DUE	MODEL	S/N	CAL DUE	
1/2/98	275 (2)	098639	4/16/98	44-2	129770	5/12/98	JJP1813

CALIBRATION DATES VERIFIED AS ACCEPTABLE



Maine Yankee Atomic Power Plant Site Characterization

04/01/98

CHARACTERIZATION SUMMARY

SURVEY PACKAGE NUMBER :B1400

SURFACES & STRUCTURES

PACKAGE DESCRIPTION

Visitor and Information Center - Elevation 1

SURVEY AREA DESCRIPTION

Visitor/Information Center

GENERAL HISTORICAL INFORMATION (Operational history, etc.)

The Information Center is a brick walled, concrete floored building. It was used during plant construction as contractor office space, and is now the visitor/information center. It has a number of offices and display areas. Bathrooms have ceramic tile floors and walls.

SUMMARY OF CHARACTERIZATION ACTIVITIES

Survey units were established for the areas as shown in the following Summary of Survey Units. Maps with the survey measurement locations for this package are included on the following pages.

Performed a scan of approximately five square meters at 60 survey measurement locations indicated on the survey map(s). This was approximately 10% of the accessible surface area.

Collected direct measurements for total beta activity at 60 survey measurement locations at the highest location identified in the scan. If an elevated location was not observed, the measurement was collected at an arbitrary location, selected by the technician, within the five square meter scanned area.

Collected smear samples to analyze for removable alpha and beta activity at 64 survey locations of direct measurements for total beta activity within the five square meter scanned area.

Collected one meter gamma exposure rate measurements at 45 survey locations for direct measurements for total beta activity on floor surfaces.

The survey result statistical summaries, graphs and results listings are shown in the following individual reports including calibration summaries for the instruments used for each measurement type.

CHARACTERIZATION SURVEY RESULTS

- o There were 3 direct measurements for total beta activity above MDA (678.4 dpm/100cm<sup>2</sup>) and no results greater than 2000 dpm/100cm<sup>2</sup>. The maximum measurement result was 1,929 dpm/100cm<sup>2</sup>.
- o There were 2 measurements for removable beta activity above MDA (16.2 dpm/100cm<sup>2</sup>) and no result greater than 100 dpm/100cm<sup>2</sup>. The maximum measurement result was 21.5 dpm/100cm<sup>2</sup>.
- o There were no measurements for removable alpha activity above MDA (6.7 dpm/100cm<sup>2</sup>).
- o The average and maximum one meter exposure rate measurement results were 13.4 µR/hr and 16.8 µR/hr respectively.

REFERENCES (Documents, Interviews)



Maine Yankee Atomic Power Plant Site Characterization

**SUMMARY OF SURVEY UNIT(S)**

03/24/98

OUTPUT BATCH SN = 232

**PACKAGE B1400 SURFACES & STRUCTURES**  
 Visitor and Information Center - Elevation 1

UNIT(S)	SURFACE(S)
01 - Visitor and Information Center	FL1 (Floor) FL2 (Scan survey of floor of training room) FL3 (Scan survey of floor of office next to training room) FL4 (Reclassification survey of Information Center floor) FL5 (Scan survey of area outside south door of training room) WC1 (Walls and Ceiling)

**REASON(S) CHARACTERIZATION SURVEY (C01)**

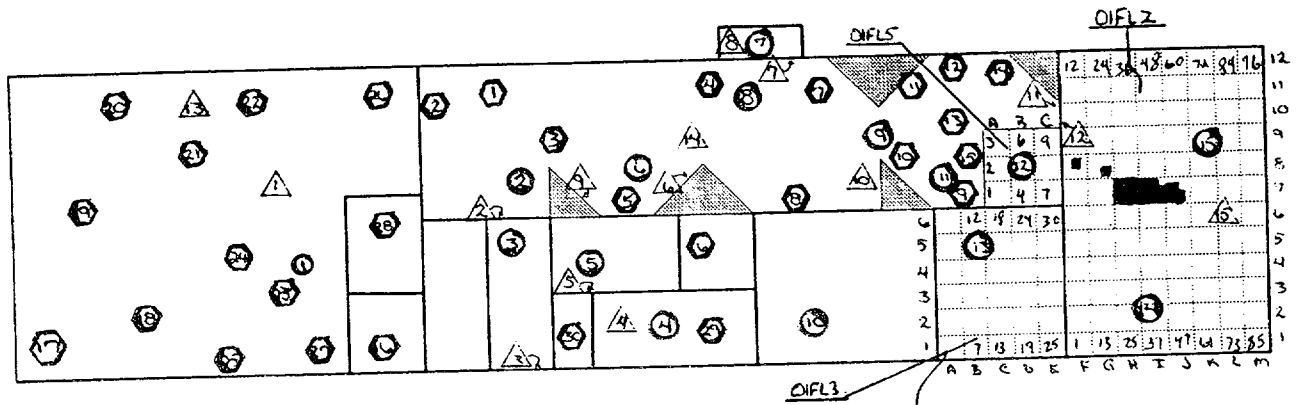
MATERIALS	MAT'L CODE	MATERIAL DESCRIPTION	BETA BKGD (dpm/100 cm <sup>2</sup> )
	B0001	CONCRETE - PAINTED (INTERIOR)	478.0
	B0003	CINDER BLOCK - PAINTED (INTERIOR)	478.0
	B0007	CERAMIC TILE - BARE (5X12)	1,109.0
	B0008	CERAMIC TILE - GLAZED (5X12)	1,109.0
	B0018	DUCT	0.0
	B0027	CARPET (OVER CONCRETE)	0.0
	B0033	CEILING TILE - FIBERBOARD	0.0
	B0035	DRYWALL - PAINTED	0.0
	G0039	CONCRETE (BARE) - GAMMA	0.0



Maine Yankee Atomic Power Plant Site Characterization

SURVEY PACKAGE B1400

Visitor and Information Center



B1400 -

- ① - survey locations on floor for OIFL1
- ② - survey locations on floor for OIFL4
- - locations where carpet has been removed
- △ - survey locations on ceilings and walls



Maine Yankee Atomic Power Plant Site Characterization

03/24/98

Direct Measurements For Total Beta Activity

Survey Package B1400 SURFACES & STRUCTURES  
 Visitor and Information Center - Elevation 1

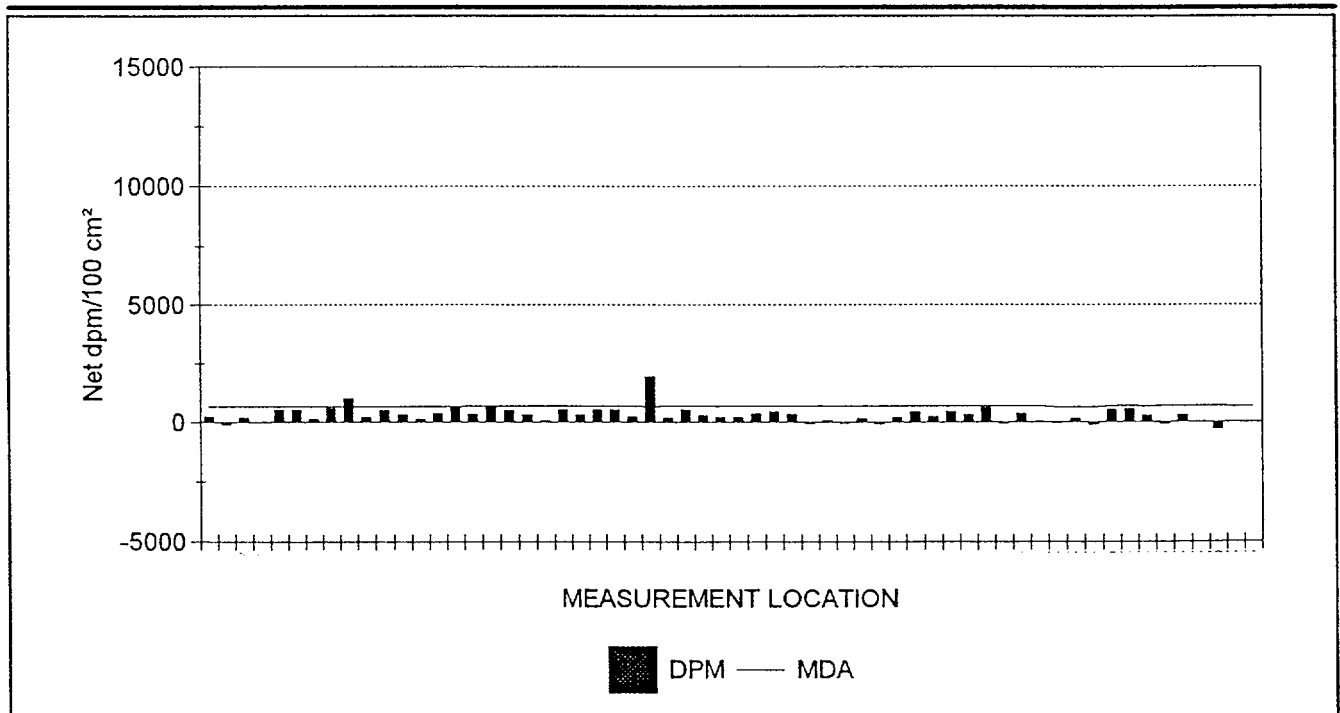
STATISTICAL SUMMARY

TESTS PERFORMED

	Net dpm/100 cm <sup>2</sup>
Mean	295.3
Maximum	1,928.8
Minimum	-308.8
Standard Deviation	325.6
MDA	678.4

Samples reported satisfy samples prescribed	YES
MDA <2000 net dpm/100 cm <sup>2</sup>	YES
Results above 2000 net dpm/100 cm <sup>2</sup>	0
Number of results above MDA	3

Samples Reported	60
Samples Prescribed	60



60 RESULTS ARE GRAPHED



## Maine Yankee Atomic Power Plant Site Characterization

03/24/98

## Direct Measurements For Total Beta Activity

Survey Package : B1400 SURFACES & STRUCTURES  
 Visitor and Information Center - Elevation 1

## RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	MDA	RESULT
23 (2)	01	FL1	B0001	C01	10	00004	638.3	231.0
23 (2)	01	FL1	B0001	C01	10	00010	638.3	-99.3
23 (2)	01	FL1	B0007	C01	10	00003	638.3	189.7
23 (2)	01	FL1	B0027	C01	10	00001	638.3	1.3
23 (2)	01	FL1	B0027	C01	10	00002	638.3	520.3
23 (2)	01	FL1	B0027	C01	10	00005	638.3	520.3
23 (2)	01	FL1	B0027	C01	10	00006	638.3	142.8
23 (2)	01	FL1	B0027	C01	10	00007	638.3	567.4
23 (2)	01	FL1	B0027	C01	10	00008	638.3	<u>992.0</u>
23 (2)	01	FL1	B0027	C01	10	00009	638.3	213.6
23 (2)	01	FL1	B0027	C01	10	00011	638.3	496.7
23 (2)	01	FL1	B0027	C01	10	00012	638.3	308.0
23 (2)	01	FL1	B0027	C01	10	00013	638.3	119.3
23 (2)	01	FL1	B0027	C01	10	00014	638.3	355.1
23 (2)	01	FL1	B0027	C01	10	00015	638.3	<u>661.8</u>
67 (2)	01	FL4	B0001	C01	10	00029	674.1	333.5
67 (2)	01	FL4	B0001	C01	10	00030	674.1	666.8
67 (2)	01	FL4	B0027	C01	10	00001	674.1	502.0
67 (2)	01	FL4	B0027	C01	10	00002	674.1	311.5
67 (2)	01	FL4	B0027	C01	10	00003	674.1	49.6
67 (2)	01	FL4	B0027	C01	10	00004	674.1	525.8
67 (2)	01	FL4	B0027	C01	10	00005	674.1	311.5
67 (2)	01	FL4	B0027	C01	10	00006	674.1	525.8
67 (2)	01	FL4	B0027	C01	10	00007	674.1	525.8
67 (2)	01	FL4	B0027	C01	10	00008	674.1	240.1
61 (2)	01	FL4	B0027	C01	10	00009	643.8	<u>1,928.8</u>
67 (2)	01	FL4	B0027	C01	10	00010	674.1	192.4
67 (2)	01	FL4	B0027	C01	10	00011	674.1	525.8
67 (2)	01	FL4	B0027	C01	10	00012	674.1	287.7
67 (2)	01	FL4	B0027	C01	10	00013	674.1	216.3
67 (2)	01	FL4	B0027	C01	10	00014	674.1	216.3
67 (2)	01	FL4	B0027	C01	10	00015	674.1	359.1
67 (2)	01	FL4	B0027	C01	10	00016	674.1	454.3
67 (2)	01	FL4	B0027	C01	10	00017	674.1	335.3
67 (2)	01	FL4	B0027	C01	10	00018	674.1	-45.6
67 (2)	01	FL4	B0027	C01	10	00019	674.1	73.4
67 (2)	01	FL4	B0027	C01	10	00020	674.1	-45.6
67 (2)	01	FL4	B0027	C01	10	00021	674.1	168.6
67 (2)	01	FL4	B0027	C01	10	00022	674.1	-69.4
67 (2)	01	FL4	B0027	C01	10	00023	674.1	216.3

NOTES: Activity reported in net dpm/100 cm<sup>2</sup>. Count times are reported in seconds.  
 Underlined values exceed the MDA.  
 Bold values exceed 2000 dpm/100 cm<sup>2</sup>.





## Maine Yankee Atomic Power Plant Site Characterization

03/24/98

## Direct Measurements For Total Beta Activity

Survey Package : B1400 SURFACES & STRUCTURES  
 Visitor and Information Center - Elevation 1

## RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	MDA	RESULT
67 (2)	01	FL4	B0027	C01	10	00024	674.1	454.3
67 (2)	01	FL4	B0027	C01	10	00025	674.1	240.1
67 (2)	01	FL4	B0027	C01	10	00026	674.1	454.3
67 (2)	01	FL4	B0027	C01	10	00027	674.1	311.5
67 (2)	01	FL4	B0027	C01	10	00028	674.1	597.2
58 (2)	01	WC1	B0003	C01	10	00005	678.4	-58.5
58 (2)	01	WC1	B0007	C01	10	00003	678.4	360.1
58 (2)	01	WC1	B0018	C01	10	00004	678.4	33.9
71 (2)	01	WC1	B0018	C01	10	00013	622.5	-26.5
71 (2)	01	WC1	B0018	C01	10	00014	622.5	155.4
71 (2)	01	WC1	B0018	C01	10	00015	622.5	-94.8
58 (2)	01	WC1	B0033	C01	10	00001	678.4	526.6
58 (2)	01	WC1	B0033	C01	10	00008	678.4	548.0
61 (2)	01	WC1	B0033	C01	10	00011	643.8	248.4
58 (2)	01	WC1	B0035	C01	10	00002	678.4	-73.2
58 (2)	01	WC1	B0035	C01	10	00006	678.4	291.0
58 (2)	01	WC1	B0035	C01	10	00007	678.4	12.5
58 (2)	01	WC1	B0035	C01	10	00009	678.4	-308.8
61 (2)	01	WC1	B0035	C01	10	00010	643.8	32.9
61 (2)	01	WC1	B0035	C01	10	00012	643.8	-10.2

NOTES: Activity reported in net dpm/100 cm<sup>2</sup>. Count times are reported in seconds.  
 Underlined values exceed the MDA.  
 Bold values exceed 2000 dpm/100 cm<sup>2</sup>.  
 60 results are listed.



## Maine Yankee Atomic Power Plant Site Characterization

## DOWNLOAD FILE & SURVEY INSTRUMENTATION CALIBRATION SUMMARY

03/24/98

### Direct Measurements For Total Beta Activity

Survey Package : B1400 SURFACES & STRUCTURES  
 Visitor and Information Center - Elevation 1

SURVEY DATE	FILE #	M2350		DETECTOR			PRE EFF	TECHNICIAN
		INST S/N	CAL DUE	MODEL	S/N	CAL DUE		
11/17/97	23 (2)	080498	4/8/98	43-68	PR075149	4/8/98	.20	CWI5440
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
12/1/97	58 (2)	098639	4/16/98	43-106	133876	4/30/98	.22	JJP1813
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
12/2/97	61 (2)	098639	4/16/98	43-106	133876	4/30/98	.22	JJP1813
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
12/2/97	67 (2)	080498	4/8/98	43-68	PR075149	4/8/98	.20	CWI5440
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
12/3/97	71 (2)	080498	4/8/98	43-68	PR075149	4/8/98	.21	CWI5440
CALIBRATION DATES VERIFIED AS ACCEPTABLE								



Maine Yankee Atomic Power Plant Site Characterization

03/24/98

Removable Contamination - Gross Beta Activity

Survey Package B1400 SURFACES & STRUCTURES  
 Visitor and Information Center - Elevation 1

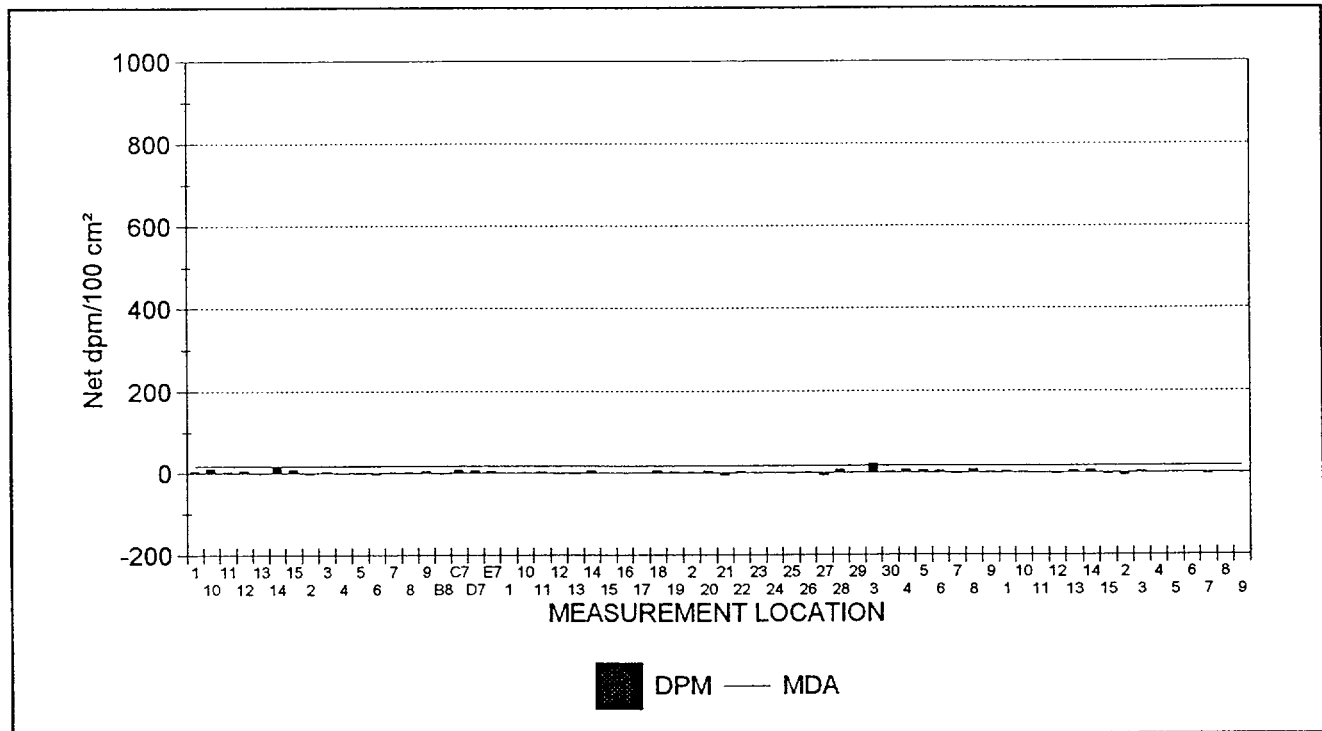
STATISTICAL SUMMARY

TESTS PERFORMED

	Net dpm/100 cm <sup>2</sup>
Mean	2.1
Maximum	21.5
Minimum	-5.4
Standard Deviation	5.0
MDA	16.2

Samples reported satisfy samples prescribed	YES
MDA < 100 net dpm/100 cm <sup>2</sup>	YES
Results above 100 net dpm/100 cm <sup>2</sup>	0
Number of results above MDA	2

Samples Reported	64
Samples Prescribed	60



64 RESULTS ARE GRAPHED



Maine Yankee Atomic Power Plant Site Characterization

03/24/98

Removable Contamination - Gross Alpha Activity

Survey Package B1400 SURFACES & STRUCTURES  
 Visitor and Information Center - Elevation 1

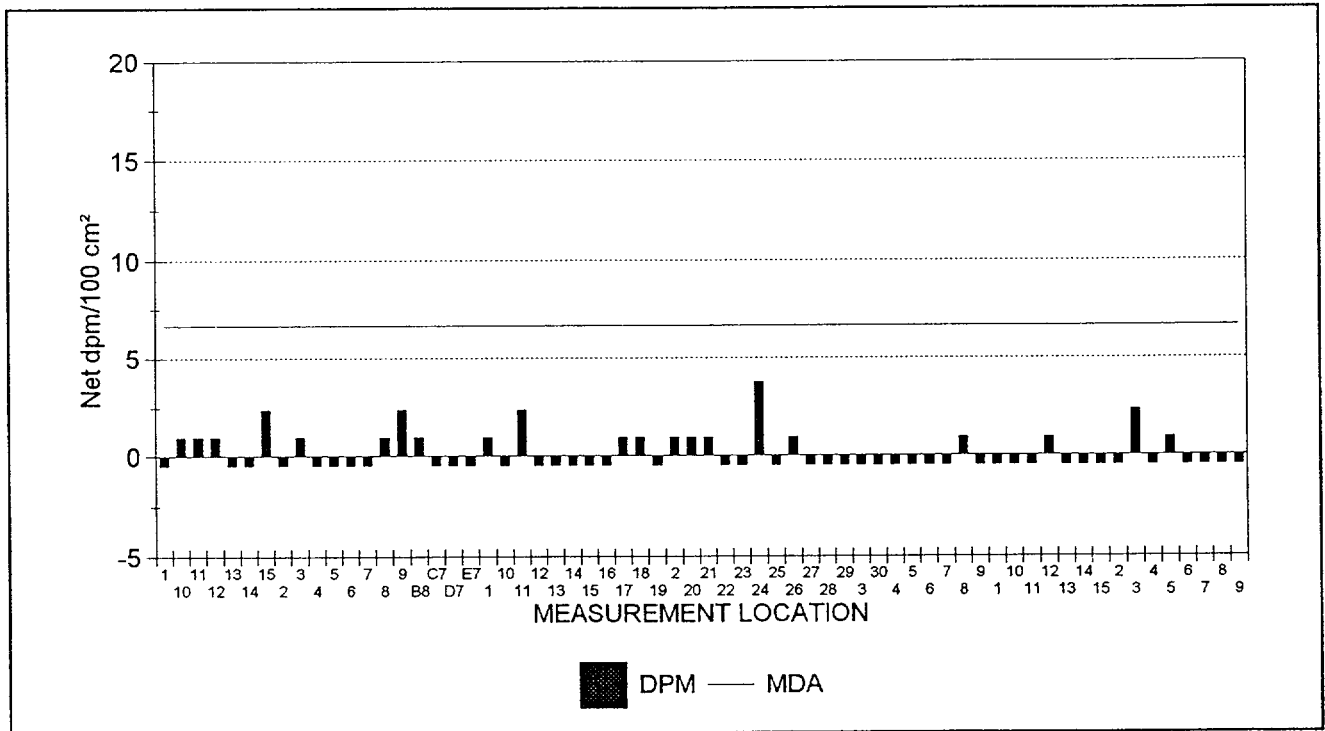
STATISTICAL SUMMARY

TESTS PERFORMED

	Net dpm/100 cm <sup>2</sup>
Mean	0.1
Maximum	3.8
Minimum	-0.5
Standard Deviation	1.0
MDA	6.7

Samples reported satisfy samples prescribed	YES
MDA < 10 net dpm/100 cm <sup>2</sup>	YES
Results above 20 net dpm/100 cm <sup>2</sup>	0
Number of results above MDA	0

Samples Reported	64
Samples Prescribed	60



64 RESULTS ARE GRAPHED



## Maine Yankee Atomic Power Plant Site Characterization

03/24/98

## Removable Contamination

Survey Package : B1400 SURFACES & STRUCTURES  
 Visitor and Information Center - Elevation 1

## RESULTS LISTING - SORTED BY SURFACE CODE

XLS FILE	UNIT	SURFACE	REASON	COUNT	MSRMNT	ALPHA	BETA
				TIME	LOCATION		
SME1B042.XLS	01	WC1	C01	2	9	-0.5	-2.0
SME1B042.XLS	01	WC1	C01	2	8	-0.5	-0.3
SME1B042.XLS	01	WC1	C01	2	7	-0.5	-3.7
SME1B042.XLS	01	WC1	C01	2	6	-0.5	1.3
SME1B042.XLS	01	WC1	C01	2	5	0.9	-0.3
SME1B042.XLS	01	WC1	C01	2	4	-0.5	-2.0
SME1B042.XLS	01	WC1	C01	2	3	2.4	3.0
SME1B042.XLS	01	WC1	C01	2	2	-0.5	-5.4
SME1B042.XLS	01	WC1	C01	2	15	-0.5	-3.7
SME1B042.XLS	01	WC1	C01	2	14	-0.5	6.4
SME1B042.XLS	01	WC1	C01	2	13	-0.5	4.7
SME1B042.XLS	01	WC1	C01	2	12	0.9	-3.7
SME1B042.XLS	01	WC1	C01	2	11	-0.5	-0.3
SME1B042.XLS	01	WC1	C01	2	10	-0.5	1.3
SME1B042.XLS	01	WC1	C01	2	1	-0.5	3.0
SME1B042.XLS	01	FL4	C01	2	9	-0.5	1.3
SME1B042.XLS	01	FL4	C01	2	8	0.9	8.1
SME1B042.XLS	01	FL4	C01	2	7	-0.5	-3.7
SME1B042.XLS	01	FL4	C01	2	6	-0.5	4.7
SME1B042.XLS	01	FL4	C01	2	5	-0.5	6.4
SME1B042.XLS	01	FL4	C01	2	4	-0.5	8.1
SME1B042.XLS	01	FL4	C01	2	30	-0.5	3.0
SME1B042.XLS	01	FL4	C01	2	3	-0.5	21.5
SME1B042.XLS	01	FL4	C01	2	29	-0.5	1.3
SME1B042.XLS	01	FL4	C01	2	28	-0.5	8.1
SME1B042.XLS	01	FL4	C01	2	27	-0.5	-5.4
SME1B042.XLS	01	FL4	C01	2	26	0.9	1.3
SME1B042.XLS	01	FL4	C01	2	25	-0.5	-2.0
SME1B042.XLS	01	FL4	C01	2	24	3.8	-0.3
SME1B042.XLS	01	FL4	C01	2	23	-0.5	-0.3
SME1B042.XLS	01	FL4	C01	2	22	-0.5	3.0
SME1B042.XLS	01	FL4	C01	2	21	0.9	-5.4
SME1B042.XLS	01	FL4	C01	2	20	0.9	4.7
SME1B042.XLS	01	FL4	C01	2	2	0.9	1.3
SME1B042.XLS	01	FL4	C01	2	19	-0.5	3.0
SME1B042.XLS	01	FL4	C01	2	18	0.9	6.4
SME1B042.XLS	01	FL4	C01	2	17	0.9	1.3
SME1B042.XLS	01	FL4	C01	2	16	-0.5	-0.3
SME1B042.XLS	01	FL4	C01	2	15	-0.5	-0.3
SME1B042.XLS	01	FL4	C01	2	14	-0.5	6.4

NOTES: Activity reported in net dpm/100 cm<sup>2</sup>. Count times are reported in minutes.  
 Underlined values exceed the associated MDA.  
 Bold values exceed 100.00 dpm/100 cm<sup>2</sup> (beta activity) and/or 20.00 dpm/100 cm<sup>2</sup> (alpha activity).



## Maine Yankee Atomic Power Plant Site Characterization

03/24/98

## Removable Contamination

Survey Package : B1400 SURFACES & STRUCTURES  
 Visitor and Information Center - Elevation 1

## RESULTS LISTING - SORTED BY SURFACE CODE

XLS FILE	UNIT	SURFACE	REASON	COUNT TIME	MSRMNT LOCATION	ALPHA	BETA
SME1B042.XLS	01	FL4	C01	2	13	-0.5	-2.0
SME1B042.XLS	01	FL4	C01	2	12	-0.5	-2.0
SME1B042.XLS	01	FL4	C01	2	11	2.4	3.0
SME1B042.XLS	01	FL4	C01	2	10	-0.5	1.3
SME1B042.XLS	01	FL4	C01	2	1	0.9	-0.3
SME1B042.XLS	01	FL2	C01	2	E7	-0.5	4.7
SME1B042.XLS	01	FL2	C01	2	D7	-0.5	6.4
SME1B042.XLS	01	FL2	C01	2	C7	-0.5	8.1
SME1B042.XLS	01	FL2	C01	2	B8	0.9	-2.0
SME1B042.XLS	01	FL1	C01	2	9	2.4	4.7
SME1B042.XLS	01	FL1	C01	2	8	0.9	1.3
SME1B042.XLS	01	FL1	C01	2	7	-0.5	1.3
SME1B042.XLS	01	FL1	C01	2	6	-0.5	-3.7
SME1B042.XLS	01	FL1	C01	2	5	-0.5	-2.0
SME1B042.XLS	01	FL1	C01	2	4	-0.5	-2.0
SME1B042.XLS	01	FL1	C01	2	3	0.9	3.0
SME1B042.XLS	01	FL1	C01	2	2	-0.5	-3.7
SME1B042.XLS	01	FL1	C01	2	15	2.4	8.1
SME1B042.XLS	01	FL1	C01	2	14	-0.5	16.5
SME1B042.XLS	01	FL1	C01	2	13	-0.5	-2.0
SME1B042.XLS	01	FL1	C01	2	12	0.9	6.4
SME1B042.XLS	01	FL1	C01	2	11	0.9	3.0
SME1B042.XLS	01	FL1	C01	2	10	0.9	9.8
SME1B042.XLS	01	FL1	C01	2	1	-0.5	4.7

NOTES: Activity reported in net dpm/100 cm<sup>2</sup>. Count times are reported in minutes.  
 Underlined values exceed the associated MDA.  
 Bold values exceed 100.00 dpm/100 cm<sup>2</sup> (beta activity) and/or 20.00 dpm/100 cm<sup>2</sup> (alpha activity).  
 64 results are listed.



Maine Yankee Atomic Power Plant Site Characterization

DATAFILE & TENNELEC CALIBRATION SUMMARY

03/24/98

Removable Contamination

Survey Package : B1400 SURFACES & STRUCTURES  
Visitor and Information Center - Elevation 1

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SURVEYDATE	XLS FILE	INST ID	S/N	CAL DUE	LAB TECHNICIAN
2/11/98	SME1B042.XLS	1	14131	8/7/98	RWD

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CALIBRATION DATE VERIFIED AS ACCEPTABLE

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Maine Yankee Atomic Power Plant Site Characterization

03/24/98

Gamma Exposure Rate Measurements At 1 Meter

Survey Package B1400 SURFACES & STRUCTURES  
 Visitor and Information Center - Elevation 1

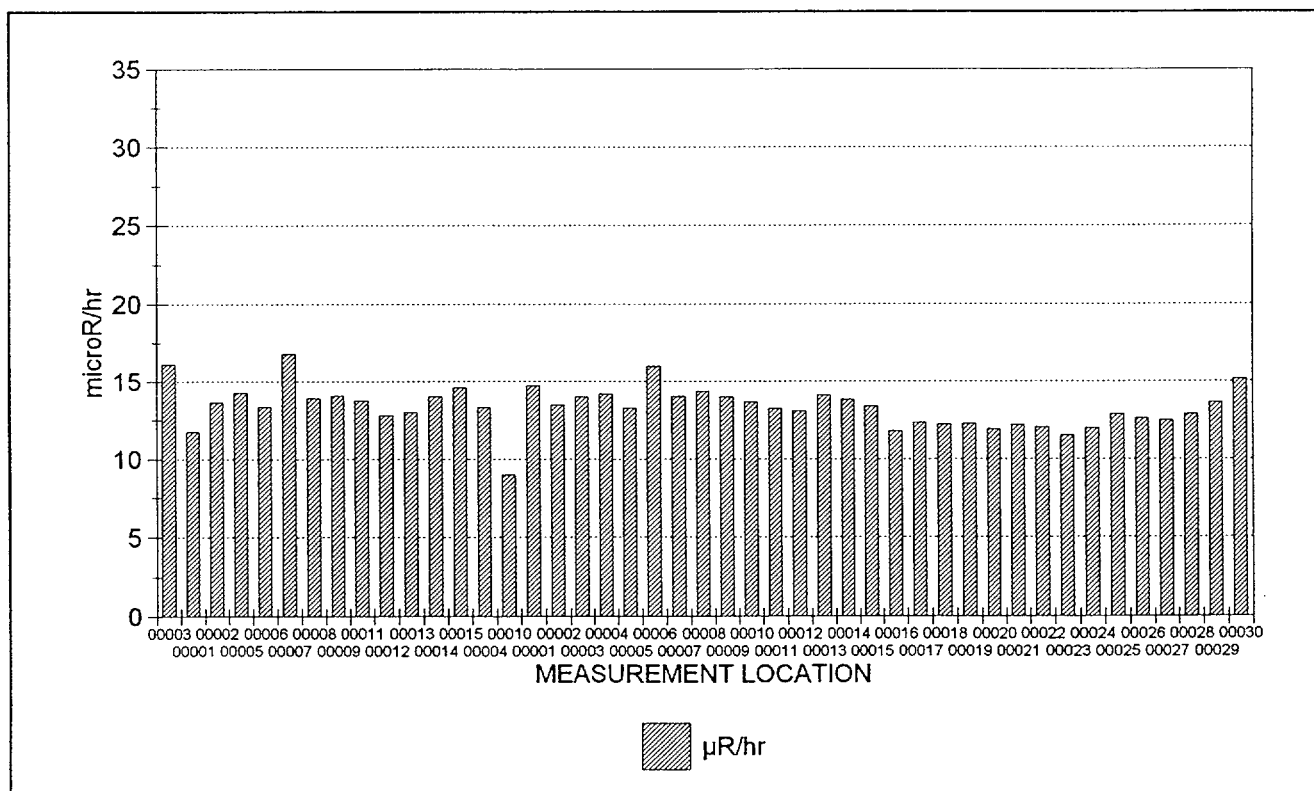
STATISTICAL SUMMARY

TESTS PERFORMED

	$\mu\text{R/hr}$
Mean	13.4
Maximum	16.8
Minimum	9.0
Standard Deviation	1.3

Samples reported satisfy samples prescribed	YES
---------------------------------------------	-----

Samples Reported	45
Samples Prescribed	45



45 RESULTS ARE GRAPHED





## Maine Yankee Atomic Power Plant Site Characterization

03/24/98

## Gamma Exposure Rate Measurements At 1 Meter

Survey Package : B1400 SURFACES & STRUCTURES  
 Visitor and Information Center - Elevation 1

## RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	RESULT
430 (2)	01	FL1	B0008	C01	60.00	00003	<b>16.1</b>
430 (2)	01	FL1	B0027	C01	60.00	00001	11.7
430 (2)	01	FL1	B0027	C01	60.00	00002	13.6
430 (2)	01	FL1	B0027	C01	60.00	00005	14.3
430 (2)	01	FL1	B0027	C01	60.00	00006	13.4
430 (2)	01	FL1	B0027	C01	60.00	00007	<b>16.8</b>
430 (2)	01	FL1	B0027	C01	60.00	00008	13.9
430 (2)	01	FL1	B0027	C01	60.00	00009	14.1
430 (2)	01	FL1	B0027	C01	60.00	00011	13.8
430 (2)	01	FL1	B0027	C01	60.00	00012	12.8
430 (2)	01	FL1	B0027	C01	60.00	00013	13.0
430 (2)	01	FL1	B0027	C01	60.00	00014	14.0
430 (2)	01	FL1	B0027	C01	60.00	00015	14.6
430 (2)	01	FL1	G0039	C01	60.00	00004	13.3
430 (2)	01	FL1	G0039	C01	60.00	00010	9.0
430 (2)	01	FL4	B0027	C01	60.00	00001	14.7
430 (2)	01	FL4	B0027	C01	60.00	00002	13.5
430 (2)	01	FL4	B0027	C01	60.00	00003	14.0
430 (2)	01	FL4	B0027	C01	60.00	00004	14.2
430 (2)	01	FL4	B0027	C01	60.00	00005	13.3
430 (2)	01	FL4	B0027	C01	60.00	00006	<b>16.0</b>
430 (2)	01	FL4	B0027	C01	60.00	00007	14.0

REMAINING RESULTS PRINTED ON NEXT PAGE

NOTES: Exposure rates reported in net  $\mu\text{R/hr}$ . Count times are reported in seconds.  
 Underlined results did not meet the minimum required count time.  
 Bold values exceed 15  $\mu\text{R/hr}$ .



## Maine Yankee Atomic Power Plant Site Characterization

03/24/98

## Gamma Exposure Rate Measurements At 1 Meter

Survey Package : B1400 SURFACES & STRUCTURES  
 Visitor and Information Center - Elevation 1

## RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	RESULT
430 (2)	01	FL4	B0027	C01	60.00	00008	14.4
430 (2)	01	FL4	B0027	C01	60.00	00009	14.0
430 (2)	01	FL4	B0027	C01	60.00	00010	13.7
430 (2)	01	FL4	B0027	C01	60.00	00011	13.3
430 (2)	01	FL4	B0027	C01	60.00	00012	13.1
430 (2)	01	FL4	B0027	C01	60.00	00013	14.1
430 (2)	01	FL4	B0027	C01	60.00	00014	13.8
430 (2)	01	FL4	B0027	C01	60.00	00015	13.4
430 (2)	01	FL4	B0027	C01	60.00	00016	11.8
430 (2)	01	FL4	B0027	C01	60.00	00017	12.4
430 (2)	01	FL4	B0027	C01	60.00	00018	12.2
430 (2)	01	FL4	B0027	C01	60.00	00019	12.3
430 (2)	01	FL4	B0027	C01	60.00	00020	11.9
430 (2)	01	FL4	B0027	C01	60.00	00021	12.2
430 (2)	01	FL4	B0027	C01	60.00	00022	12.0
430 (2)	01	FL4	B0027	C01	60.00	00023	11.5
430 (2)	01	FL4	B0027	C01	60.00	00024	12.0
430 (2)	01	FL4	B0027	C01	60.00	00025	12.9
430 (2)	01	FL4	B0027	C01	60.00	00026	12.6
430 (2)	01	FL4	B0027	C01	60.00	00027	12.5
430 (2)	01	FL4	B0027	C01	60.00	00028	12.9
430 (2)	01	FL4	G0039	C01	60.00	00029	13.6
430 (2)	01	FL4	G0039	C01	60.00	00030	<b>15.1</b>

NOTES: Exposure rates reported in net  $\mu$ R/hr. Count times are reported in seconds.  
 Underlined results did not meet the minimum required count time.  
 Bold values exceed 15  $\mu$ R/hr.  
 45 results are listed.



## Maine Yankee Atomic Power Plant Site Characterization

## DOWNLOAD FILE & SURVEY INSTRUMENTATION CALIBRATION SUMMARY

03/24/98

Gamma Exposure Rate Measurements At 1 Meter

Survey Package : B1400 SURFACES &amp; STRUCTURES

Visitor and Information Center - Elevation 1

SURVEY DATE	FILE #	M2350		DETECTOR			TECHNICIAN
		INST S/N	CAL DUE	MODEL	S/N	CAL DUE	
1/19/98	430 (2)	098639	4/16/98	44-2	129770	5/12/98	JJP1813

CALIBRATION DATES VERIFIED AS ACCEPTABLE



Maine Yankee Atomic Power Plant Site Characterization

04/01/98

CHARACTERIZATION SUMMARY

SURVEY PACKAGE NUMBER :B1400

SURFACES & STRUCTURES

PACKAGE DESCRIPTION

Visitor and Information Center - Elevation 1

SURVEY AREA DESCRIPTION

Visitor/Information Center

GENERAL HISTORICAL INFORMATION (Operational history, etc.)

The Information Center is a brick walled, concrete floored building. It was used during plant construction as contractor office space, and is now the visitor/information center. It has a number of offices and display areas. Bathrooms have ceramic tile floors and walls.

SUMMARY OF CHARACTERIZATION ACTIVITIES

Survey units were established for the areas as shown in the following Summary of Survey Units. Maps with the survey measurement locations for this package are included on the following pages.

Performed a scan of approximately five square meters at 60 survey measurement locations indicated on the survey map(s). This was approximately 10% of the accessible surface area.

Collected direct measurements for total beta activity at 60 survey measurement locations at the highest location identified in the scan. If an elevated location was not observed, the measurement was collected at an arbitrary location, selected by the technician, within the five square meter scanned area.

Collected smear samples to analyze for removable alpha and beta activity at 64 survey locations of direct measurements for total beta activity within the five square meter scanned area.

Collected one meter gamma exposure rate measurements at 45 survey locations for direct measurements for total beta activity on floor surfaces.

The survey result statistical summaries, graphs and results listings are shown in the following individual reports including calibration summaries for the instruments used for each measurement type.

CHARACTERIZATION SURVEY RESULTS

- o There were 3 direct measurements for total beta activity above MDA (678.4 dpm/100cm<sup>2</sup>) and no results greater than 2000 dpm/100cm<sup>2</sup>. The maximum measurement result was 1,929 dpm/100cm<sup>2</sup>.
- o There were 2 measurements for removable beta activity above MDA (16.2 dpm/100cm<sup>2</sup>) and no result greater than 100 dpm/100cm<sup>2</sup>. The maximum measurement result was 21.5 dpm/100cm<sup>2</sup>.
- o There were no measurements for removable alpha activity above MDA (6.7 dpm/100cm<sup>2</sup>).
- o The average and maximum one meter exposure rate measurement results were 13.4 µR/hr and 16.8 µR/hr respectively.

REFERENCES (Documents, Interviews)



Maine Yankee Atomic Power Plant Site Characterization

SUMMARY OF SURVEY UNIT(S)

03/24/98

OUTPUT BATCH SN = 232

**PACKAGE B1400 SURFACES & STRUCTURES**  
 Visitor and Information Center - Elevation 1

UNIT(S)	SURFACE(S)
01 - Visitor and Information Center	FL1 (Floor) FL2 (Scan survey of floor of training room) FL3 (Scan survey of floor of office next to training room) FL4 (Reclassification survey of Information Center floor) FL5 (Scan survey of area outside south door of training room) WC1 (Walls and Ceiling)

**REASON(S)** CHARACTERIZATION SURVEY (C01)

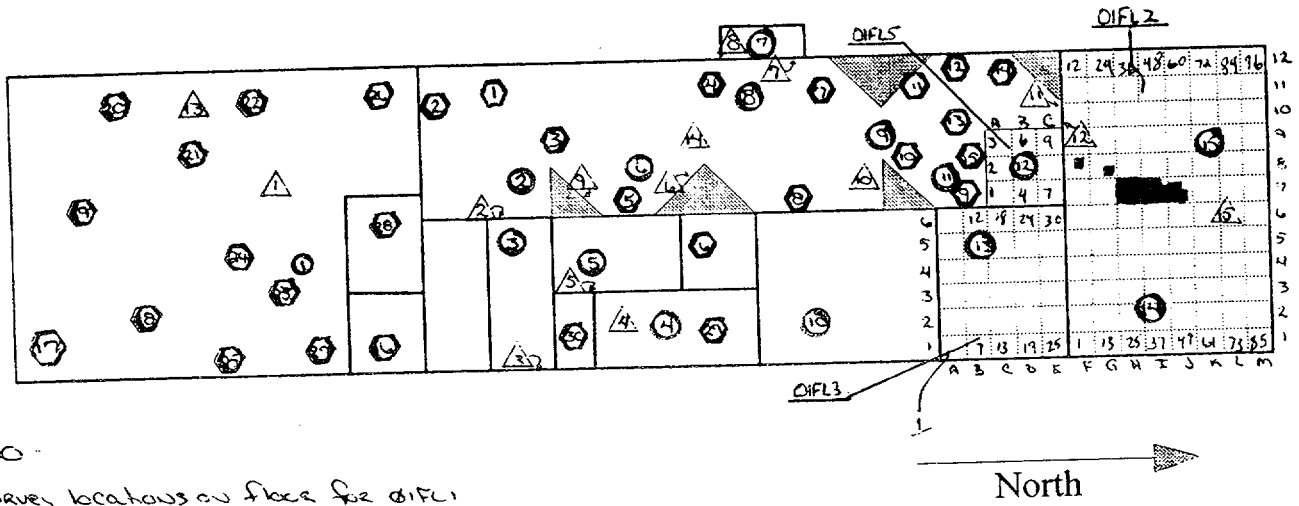
MATERIALS	MAT'L CODE	MATERIAL DESCRIPTION	BETA BKGD (dpm/100 cm <sup>2</sup> )
	B0001	CONCRETE - PAINTED (INTERIOR)	478.0
	B0003	CINDER BLOCK - PAINTED (INTERIOR)	478.0
	B0007	CERAMIC TILE - BARE (5X12)	1,109.0
	B0008	CERAMIC TILE - GLAZED (5X12)	1,109.0
	B0018	DUCT	0.0
	B0027	CARPET (OVER CONCRETE)	0.0
	B0033	CEILING TILE - FIBERBOARD	0.0
	B0035	DRYWALL - PAINTED	0.0
	G0039	CONCRETE (BARE) - GAMMA	0.0



Maine Yankee Atomic Power Plant Site Characterization

SURVEY PACKAGE B1400

Visitor and Information Center



B1400

- - survey locations on floor for DIFL1
- ⊙ - survey locations on floor for DIFL4
- - locations where carpet has been removed
- △ - survey locations on ceilings and walls



Maine Yankee Atomic Power Plant Site Characterization

03/24/98

Direct Measurements For Total Beta Activity

Survey Package B1400 SURFACES & STRUCTURES  
 Visitor and Information Center - Elevation 1

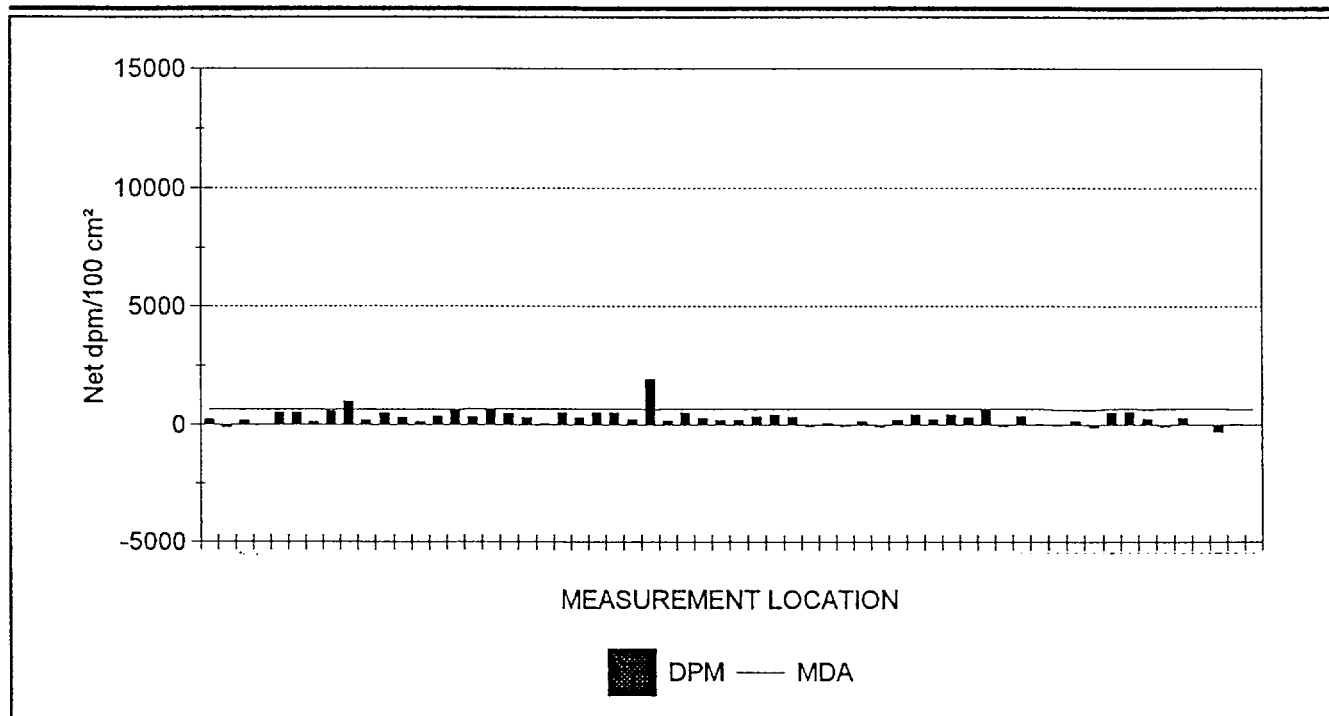
STATISTICAL SUMMARY

TESTS PERFORMED

	Net dpm/100 cm <sup>2</sup>
Mean	295.3
Maximum	1,928.8
Minimum	-308.8
Standard Deviation	325.6
MDA	678.4

Samples reported satisfy samples prescribed	YES
MDA <2000 net dpm/100 cm <sup>2</sup>	YES
Results above 2000 net dpm/100 cm <sup>2</sup>	0
Number of results above MDA	3

Samples Reported	60
Samples Prescribed	60



60 RESULTS ARE GRAPHED



## Maine Yankee Atomic Power Plant Site Characterization

03/24/98

## Direct Measurements For Total Beta Activity

Survey Package : B1400 SURFACES & STRUCTURES  
 Visitor and Information Center - Elevation 1

## RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	MDA	RESULT
23 (2)	01	FL1	B0001	C01	10	00004	638.3	231.0
23 (2)	01	FL1	B0001	C01	10	00010	638.3	-99.3
23 (2)	01	FL1	B0007	C01	10	00003	638.3	189.7
23 (2)	01	FL1	B0027	C01	10	00001	638.3	1.3
23 (2)	01	FL1	B0027	C01	10	00002	638.3	520.3
23 (2)	01	FL1	B0027	C01	10	00005	638.3	520.3
23 (2)	01	FL1	B0027	C01	10	00006	638.3	142.8
23 (2)	01	FL1	B0027	C01	10	00007	638.3	567.4
23 (2)	01	FL1	B0027	C01	10	00008	638.3	<u>992.0</u>
23 (2)	01	FL1	B0027	C01	10	00009	638.3	213.6
23 (2)	01	FL1	B0027	C01	10	00011	638.3	496.7
23 (2)	01	FL1	B0027	C01	10	00012	638.3	308.0
23 (2)	01	FL1	B0027	C01	10	00013	638.3	119.3
23 (2)	01	FL1	B0027	C01	10	00014	638.3	355.1
23 (2)	01	FL1	B0027	C01	10	00015	638.3	<u>661.8</u>
67 (2)	01	FL4	B0001	C01	10	00029	674.1	<u>333.5</u>
67 (2)	01	FL4	B0001	C01	10	00030	674.1	666.8
67 (2)	01	FL4	B0027	C01	10	00001	674.1	502.0
67 (2)	01	FL4	B0027	C01	10	00002	674.1	311.5
67 (2)	01	FL4	B0027	C01	10	00003	674.1	49.6
67 (2)	01	FL4	B0027	C01	10	00004	674.1	525.8
67 (2)	01	FL4	B0027	C01	10	00005	674.1	311.5
67 (2)	01	FL4	B0027	C01	10	00006	674.1	525.8
67 (2)	01	FL4	B0027	C01	10	00007	674.1	525.8
67 (2)	01	FL4	B0027	C01	10	00008	674.1	240.1
67 (2)	01	FL4	B0027	C01	10	00009	643.8	<u>1,928.8</u>
67 (2)	01	FL4	B0027	C01	10	00010	674.1	192.4
67 (2)	01	FL4	B0027	C01	10	00011	674.1	525.8
67 (2)	01	FL4	B0027	C01	10	00012	674.1	287.7
67 (2)	01	FL4	B0027	C01	10	00013	674.1	216.3
67 (2)	01	FL4	B0027	C01	10	00014	674.1	216.3
67 (2)	01	FL4	B0027	C01	10	00015	674.1	359.1
67 (2)	01	FL4	B0027	C01	10	00016	674.1	454.3
67 (2)	01	FL4	B0027	C01	10	00017	674.1	335.3
67 (2)	01	FL4	B0027	C01	10	00018	674.1	-45.6
67 (2)	01	FL4	B0027	C01	10	00019	674.1	73.4
67 (2)	01	FL4	B0027	C01	10	00020	674.1	-45.6
67 (2)	01	FL4	B0027	C01	10	00021	674.1	168.6
67 (2)	01	FL4	B0027	C01	10	00022	674.1	-69.4
67 (2)	01	FL4	B0027	C01	10	00023	674.1	216.3

NOTES: Activity reported in net dpm/100 cm<sup>2</sup>. Count times are reported in seconds.  
 Underlined values exceed the MDA.  
 Bold values exceed 2000 dpm/100 cm<sup>2</sup>.





## Maine Yankee Atomic Power Plant Site Characterization

03/24/98

## Direct Measurements For Total Beta Activity

Survey Package : B1400 SURFACES & STRUCTURES  
 Visitor and Information Center - Elevation 1

## RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	MDA	RESULT
67 (2)	01	FL4	B0027	C01	10	00024	674.1	454.3
67 (2)	01	FL4	B0027	C01	10	00025	674.1	240.1
67 (2)	01	FL4	B0027	C01	10	00026	674.1	454.3
67 (2)	01	FL4	B0027	C01	10	00027	674.1	311.5
67 (2)	01	FL4	B0027	C01	10	00028	674.1	597.2
58 (2)	01	WC1	B0003	C01	10	00005	678.4	-58.5
58 (2)	01	WC1	B0007	C01	10	00003	678.4	360.1
58 (2)	01	WC1	B0018	C01	10	00004	678.4	33.9
71 (2)	01	WC1	B0018	C01	10	00013	622.5	-26.5
71 (2)	01	WC1	B0018	C01	10	00014	622.5	155.4
71 (2)	01	WC1	B0018	C01	10	00015	622.5	-94.8
58 (2)	01	WC1	B0033	C01	10	00001	678.4	526.6
58 (2)	01	WC1	B0033	C01	10	00008	678.4	548.0
61 (2)	01	WC1	B0033	C01	10	00011	643.8	248.4
58 (2)	01	WC1	B0035	C01	10	00002	678.4	-73.2
58 (2)	01	WC1	B0035	C01	10	00006	678.4	291.0
58 (2)	01	WC1	B0035	C01	10	00007	678.4	12.5
58 (2)	01	WC1	B0035	C01	10	00009	678.4	-308.8
61 (2)	01	WC1	B0035	C01	10	00010	643.8	32.9
61 (2)	01	WC1	B0035	C01	10	00012	643.8	-10.2

NOTES: Activity reported in net dpm/100 cm<sup>2</sup>. Count times are reported in seconds.

Underlined values exceed the MDA.

Bold values exceed 2000 dpm/100 cm<sup>2</sup>.

60 results are listed.



## Maine Yankee Atomic Power Plant Site Characterization

## DOWNLOAD FILE & SURVEY INSTRUMENTATION CALIBRATION SUMMARY

03/24/98

### Direct Measurements For Total Beta Activity

Survey Package : B1400 SURFACES & STRUCTURES  
 Visitor and Information Center - Elevation 1

SURVEY DATE	FILE #	M2350		DETECTOR			PRE EFF	TECHNICIAN
		INST S/N	CAL DUE	MODEL	S/N	CAL DUE		
11/17/97	23 (2)	080498	4/8/98	43-68	PR075149	4/8/98	.20	CWI5440
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
12/1/97	58 (2)	098639	4/16/98	43-106	133876	4/30/98	.22	JJP1813
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
12/2/97	61 (2)	098639	4/16/98	43-106	133876	4/30/98	.22	JJP1813
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
12/2/97	67 (2)	080498	4/8/98	43-68	PR075149	4/8/98	.20	CWI5440
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
12/3/97	71 (2)	080498	4/8/98	43-68	PR075149	4/8/98	.21	CWI5440
CALIBRATION DATES VERIFIED AS ACCEPTABLE								



Maine Yankee Atomic Power Plant Site Characterization

03/24/98

Removable Contamination - Gross Beta Activity

Survey Package B1400 SURFACES & STRUCTURES  
 Visitor and Information Center - Elevation 1

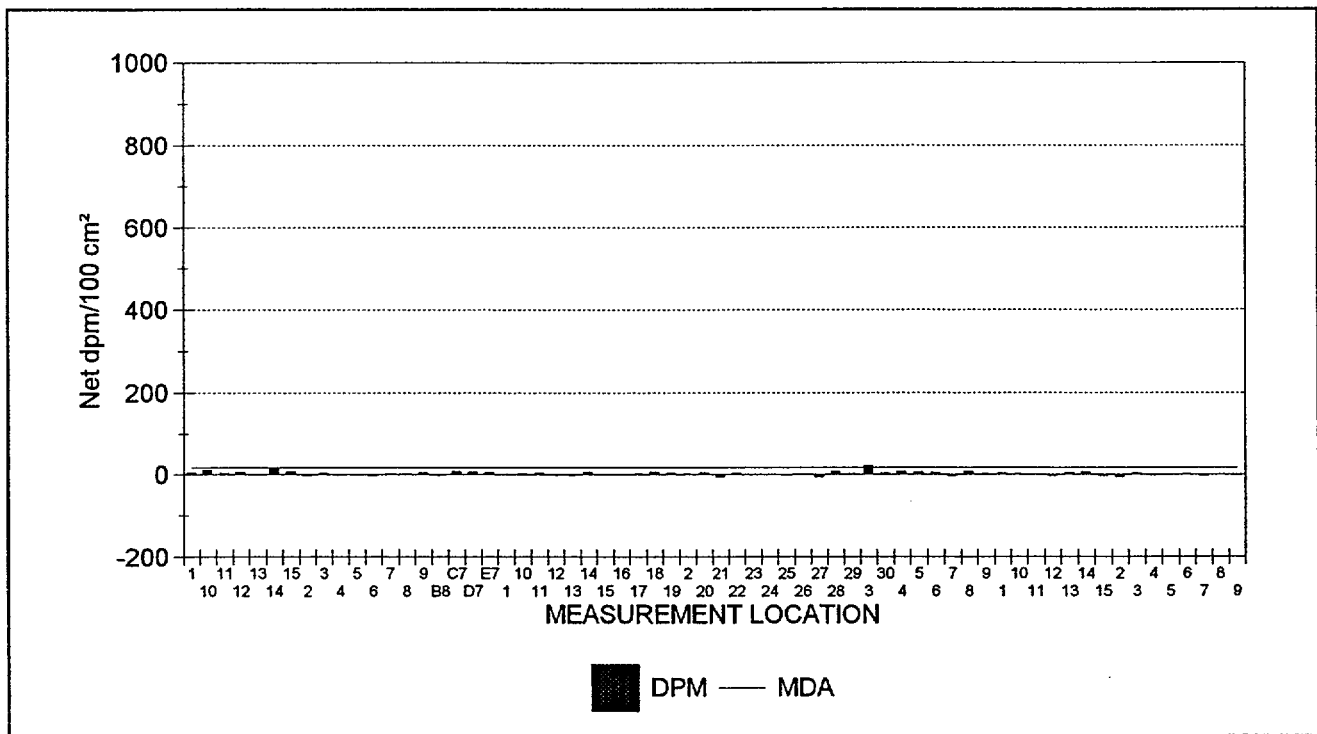
STATISTICAL SUMMARY

TESTS PERFORMED

	Net dpm/100 cm <sup>2</sup>
Mean	2.1
Maximum	21.5
Minimum	-5.4
Standard Deviation	5.0
MDA	16.2

Samples reported satisfy samples prescribed	YES
MDA < 100 net dpm/100 cm <sup>2</sup>	YES
Results above 100 net dpm/100 cm <sup>2</sup>	0
Number of results above MDA	2

Samples Reported	64
Samples Prescribed	60



64 RESULTS ARE GRAPHED



Maine Yankee Atomic Power Plant Site Characterization

03/24/98

Removable Contamination - Gross Alpha Activity

Survey Package B1400 SURFACES & STRUCTURES  
 Visitor and Information Center - Elevation 1

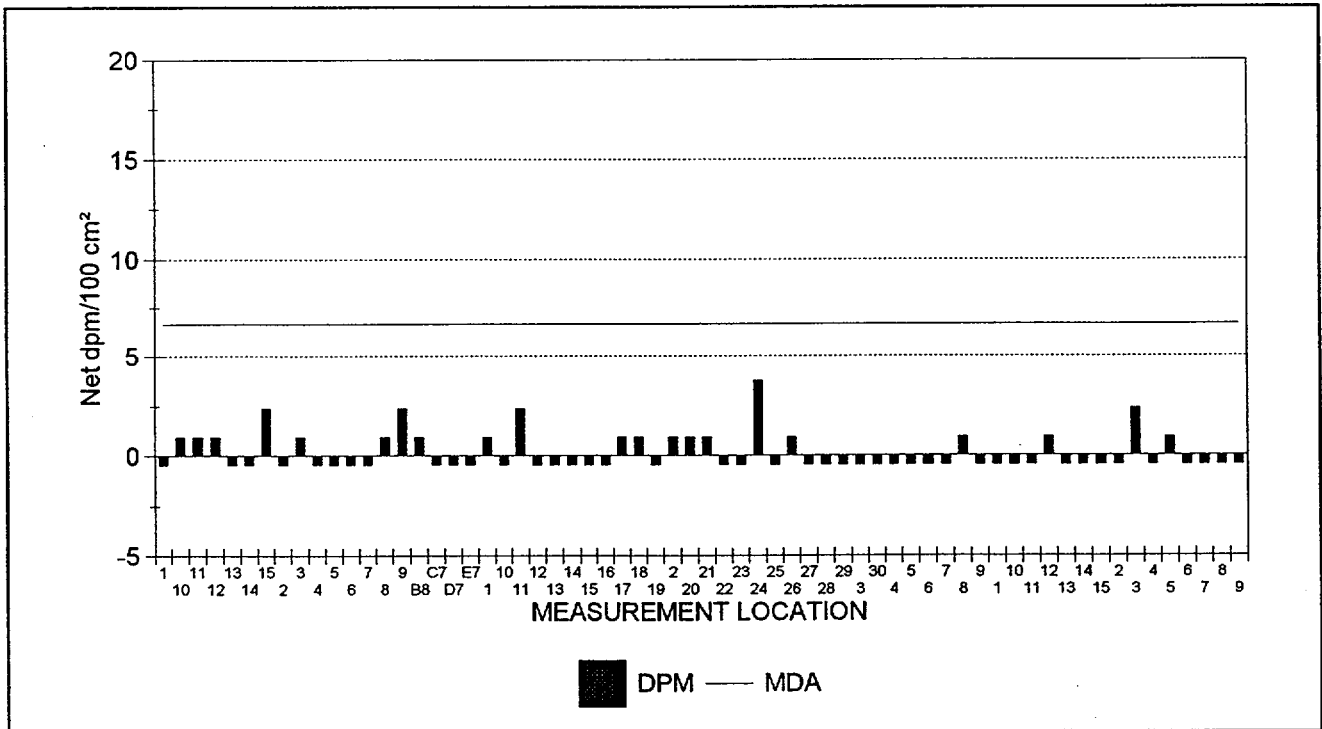
STATISTICAL SUMMARY

TESTS PERFORMED

	Net dpm/100 cm <sup>2</sup>
Mean	0.1
Maximum	3.8
Minimum	-0.5
Standard Deviation	1.0
MDA	6.7

Samples reported satisfy samples prescribed	YES
MDA < 10 net dpm/100 cm <sup>2</sup>	YES
Results above 20 net dpm/100 cm <sup>2</sup>	0
Number of results above MDA	0

Samples Reported	64
Samples Prescribed	60



64 RESULTS ARE GRAPHED



## Maine Yankee Atomic Power Plant Site Characterization

03/24/98

## Removable Contamination

Survey Package : B1400 SURFACES & STRUCTURES  
 Visitor and Information Center - Elevation 1

## RESULTS LISTING - SORTED BY SURFACE CODE

XLS FILE	UNIT	SURFACE	REASON	COUNT	MSRMNT	ALPHA	BETA
				TIME	LOCATION		
SME1B042.XLS	01	WC1	C01	2	9	-0.5	-2.0
SME1B042.XLS	01	WC1	C01	2	8	-0.5	-0.3
SME1B042.XLS	01	WC1	C01	2	7	-0.5	-3.7
SME1B042.XLS	01	WC1	C01	2	6	-0.5	1.3
SME1B042.XLS	01	WC1	C01	2	5	0.9	-0.3
SME1B042.XLS	01	WC1	C01	2	4	-0.5	-2.0
SME1B042.XLS	01	WC1	C01	2	3	2.4	3.0
SME1B042.XLS	01	WC1	C01	2	2	-0.5	-5.4
SME1B042.XLS	01	WC1	C01	2	15	-0.5	-3.7
SME1B042.XLS	01	WC1	C01	2	14	-0.5	6.4
SME1B042.XLS	01	WC1	C01	2	13	-0.5	4.7
SME1B042.XLS	01	WC1	C01	2	12	0.9	-3.7
SME1B042.XLS	01	WC1	C01	2	11	-0.5	-0.3
SME1B042.XLS	01	WC1	C01	2	10	-0.5	1.3
SME1B042.XLS	01	WC1	C01	2	1	-0.5	3.0
SME1B042.XLS	01	FL4	C01	2	9	-0.5	1.3
SME1B042.XLS	01	FL4	C01	2	8	0.9	8.1
SME1B042.XLS	01	FL4	C01	2	7	-0.5	-3.7
SME1B042.XLS	01	FL4	C01	2	6	-0.5	4.7
SME1B042.XLS	01	FL4	C01	2	5	-0.5	6.4
SME1B042.XLS	01	FL4	C01	2	4	-0.5	8.1
SME1B042.XLS	01	FL4	C01	2	30	-0.5	3.0
SME1B042.XLS	01	FL4	C01	2	3	-0.5	21.5
SME1B042.XLS	01	FL4	C01	2	29	-0.5	1.3
SME1B042.XLS	01	FL4	C01	2	28	-0.5	8.1
SME1B042.XLS	01	FL4	C01	2	27	-0.5	-5.4
SME1B042.XLS	01	FL4	C01	2	26	0.9	1.3
SME1B042.XLS	01	FL4	C01	2	25	-0.5	-2.0
SME1B042.XLS	01	FL4	C01	2	24	3.8	-0.3
SME1B042.XLS	01	FL4	C01	2	23	-0.5	-0.3
SME1B042.XLS	01	FL4	C01	2	22	-0.5	3.0
SME1B042.XLS	01	FL4	C01	2	21	0.9	-5.4
SME1B042.XLS	01	FL4	C01	2	20	0.9	4.7
SME1B042.XLS	01	FL4	C01	2	2	0.9	1.3
SME1B042.XLS	01	FL4	C01	2	19	-0.5	3.0
SME1B042.XLS	01	FL4	C01	2	18	0.9	6.4
SME1B042.XLS	01	FL4	C01	2	17	0.9	1.3
SME1B042.XLS	01	FL4	C01	2	16	-0.5	-0.3
SME1B042.XLS	01	FL4	C01	2	15	-0.5	-0.3
SME1B042.XLS	01	FL4	C01	2	14	-0.5	6.4

NOTES: Activity reported in net dpm/100 cm<sup>2</sup>. Count times are reported in minutes.  
 Underlined values exceed the associated MDA.  
 Bold values exceed 100.00 dpm/100 cm<sup>2</sup> (beta activity) and/or 20.00 dpm/100 cm<sup>2</sup> (alpha activity).



## Maine Yankee Atomic Power Plant Site Characterization

03/24/98

## Removable Contamination

Survey Package : B1400 SURFACES & STRUCTURES  
 Visitor and Information Center - Elevation 1

## RESULTS LISTING - SORTED BY SURFACE CODE

XLS FILE	UNIT	SURFACE	REASON	COUNT TIME	MSRMNT LOCATION	ALPHA	BETA
SME1B042.XLS	01	FL4	C01	2	13	-0.5	-2.0
SME1B042.XLS	01	FL4	C01	2	12	-0.5	-2.0
SME1B042.XLS	01	FL4	C01	2	11	2.4	3.0
SME1B042.XLS	01	FL4	C01	2	10	-0.5	1.3
SME1B042.XLS	01	FL4	C01	2	1	0.9	-0.3
SME1B042.XLS	01	FL2	C01	2	E7	-0.5	4.7
SME1B042.XLS	01	FL2	C01	2	D7	-0.5	6.4
SME1B042.XLS	01	FL2	C01	2	C7	-0.5	8.1
SME1B042.XLS	01	FL2	C01	2	B8	0.9	-2.0
SME1B042.XLS	01	FL1	C01	2	9	2.4	4.7
SME1B042.XLS	01	FL1	C01	2	8	0.9	1.3
SME1B042.XLS	01	FL1	C01	2	7	-0.5	1.3
SME1B042.XLS	01	FL1	C01	2	6	-0.5	-3.7
SME1B042.XLS	01	FL1	C01	2	5	-0.5	-2.0
SME1B042.XLS	01	FL1	C01	2	4	-0.5	-2.0
SME1B042.XLS	01	FL1	C01	2	3	0.9	3.0
SME1B042.XLS	01	FL1	C01	2	2	-0.5	-3.7
SME1B042.XLS	01	FL1	C01	2	15	2.4	8.1
SME1B042.XLS	01	FL1	C01	2	14	-0.5	16.5
SME1B042.XLS	01	FL1	C01	2	13	-0.5	-2.0
SME1B042.XLS	01	FL1	C01	2	12	0.9	6.4
SME1B042.XLS	01	FL1	C01	2	11	0.9	3.0
SME1B042.XLS	01	FL1	C01	2	10	0.9	9.8
SME1B042.XLS	01	FL1	C01	2	1	-0.5	4.7

NOTES: Activity reported in net dpm/100 cm<sup>2</sup>. Count times are reported in minutes.  
 Underlined values exceed the associated MDA.  
 Bold values exceed 100.00 dpm/100 cm<sup>2</sup> (beta activity) and/or 20.00 dpm/100 cm<sup>2</sup> (alpha activity).  
 64 results are listed.



Maine Yankee Atomic Power Plant Site Characterization

DATAFILE & TENNELEC CALIBRATION SUMMARY

03/24/98

Removable Contamination

Survey Package : B1400 SURFACES & STRUCTURES  
Visitor and Information Center - Elevation 1

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SURVEYDATE	XLS FILE	INST ID	S/N	CAL DUE	LAB TECHNICIAN
2/11/98	SME1B042.XLS	1	14131	8/7/98	RWD

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CALIBRATION DATE VERIFIED AS ACCEPTABLE

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Maine Yankee Atomic Power Plant Site Characterization

03/24/98

Gamma Exposure Rate Measurements At 1 Meter

Survey Package B1400 SURFACES & STRUCTURES  
 Visitor and Information Center - Elevation 1

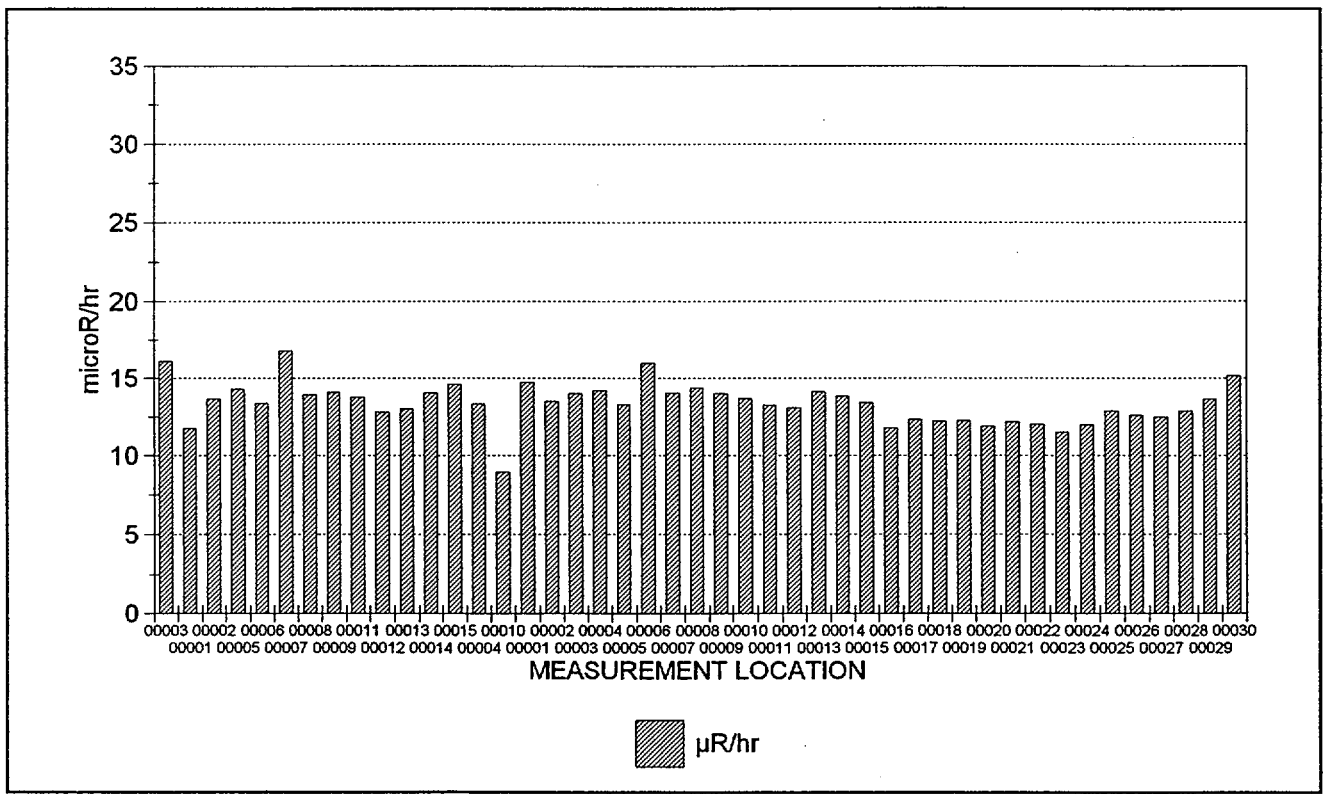
STATISTICAL SUMMARY

TESTS PERFORMED

	$\mu\text{R/hr}$
Mean	13.4
Maximum	16.8
Minimum	9.0
Standard Deviation	1.3

Samples reported satisfy samples prescribed	YES
---------------------------------------------	-----

Samples Reported	45
Samples Prescribed	45







## Maine Yankee Atomic Power Plant Site Characterization

03/24/98

## Gamma Exposure Rate Measurements At 1 Meter

Survey Package : B1400 SURFACES & STRUCTURES  
 Visitor and Information Center - Elevation 1

## RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	RESULT
430 (2)	01	FL1	B0008	C01	60.00	00003	<b>16.1</b>
430 (2)	01	FL1	B0027	C01	60.00	00001	11.7
430 (2)	01	FL1	B0027	C01	60.00	00002	13.6
430 (2)	01	FL1	B0027	C01	60.00	00005	14.3
430 (2)	01	FL1	B0027	C01	60.00	00006	13.4
430 (2)	01	FL1	B0027	C01	60.00	00007	<b>16.8</b>
430 (2)	01	FL1	B0027	C01	60.00	00008	13.9
430 (2)	01	FL1	B0027	C01	60.00	00009	14.1
430 (2)	01	FL1	B0027	C01	60.00	00011	13.8
430 (2)	01	FL1	B0027	C01	60.00	00012	12.8
430 (2)	01	FL1	B0027	C01	60.00	00013	13.0
430 (2)	01	FL1	B0027	C01	60.00	00014	14.0
430 (2)	01	FL1	B0027	C01	60.00	00015	14.6
430 (2)	01	FL1	G0039	C01	60.00	00004	13.3
430 (2)	01	FL1	G0039	C01	60.00	00010	9.0
430 (2)	01	FL4	B0027	C01	60.00	00001	14.7
430 (2)	01	FL4	B0027	C01	60.00	00002	13.5
430 (2)	01	FL4	B0027	C01	60.00	00003	14.0
430 (2)	01	FL4	B0027	C01	60.00	00004	14.2
430 (2)	01	FL4	B0027	C01	60.00	00005	13.3
430 (2)	01	FL4	B0027	C01	60.00	00006	<b>16.0</b>
430 (2)	01	FL4	B0027	C01	60.00	00007	14.0

REMAINING RESULTS PRINTED ON NEXT PAGE

NOTES: Exposure rates reported in net  $\mu\text{R/hr}$ . Count times are reported in seconds.  
 Underlined results did not meet the minimum required count time.  
 Bold values exceed 15  $\mu\text{R/hr}$ .



## Maine Yankee Atomic Power Plant Site Characterization

03/24/98

## Gamma Exposure Rate Measurements At 1 Meter

Survey Package : B1400 SURFACES & STRUCTURES  
 Visitor and Information Center - Elevation 1

## RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	RESULT
430 (2)	01	FL4	B0027	C01	60.00	00008	14.4
430 (2)	01	FL4	B0027	C01	60.00	00009	14.0
430 (2)	01	FL4	B0027	C01	60.00	00010	13.7
430 (2)	01	FL4	B0027	C01	60.00	00011	13.3
430 (2)	01	FL4	B0027	C01	60.00	00012	13.1
430 (2)	01	FL4	B0027	C01	60.00	00013	14.1
430 (2)	01	FL4	B0027	C01	60.00	00014	13.8
430 (2)	01	FL4	B0027	C01	60.00	00015	13.4
430 (2)	01	FL4	B0027	C01	60.00	00016	11.8
430 (2)	01	FL4	B0027	C01	60.00	00017	12.4
430 (2)	01	FL4	B0027	C01	60.00	00018	12.2
430 (2)	01	FL4	B0027	C01	60.00	00019	12.3
430 (2)	01	FL4	B0027	C01	60.00	00020	11.9
430 (2)	01	FL4	B0027	C01	60.00	00021	12.2
430 (2)	01	FL4	B0027	C01	60.00	00022	12.0
430 (2)	01	FL4	B0027	C01	60.00	00023	11.5
430 (2)	01	FL4	B0027	C01	60.00	00024	12.0
430 (2)	01	FL4	B0027	C01	60.00	00025	12.9
430 (2)	01	FL4	B0027	C01	60.00	00026	12.6
430 (2)	01	FL4	B0027	C01	60.00	00027	12.5
430 (2)	01	FL4	B0027	C01	60.00	00028	12.9
430 (2)	01	FL4	G0039	C01	60.00	00029	13.6
430 (2)	01	FL4	G0039	C01	60.00	00030	<b>15.1</b>

NOTES: Exposure rates reported in net  $\mu$ R/hr. Count times are reported in seconds.  
 Underlined results did not meet the minimum required count time.  
 Bold values exceed 15  $\mu$ R/hr.  
 45 results are listed.



## Maine Yankee Atomic Power Plant Site Characterization

**DOWNLOAD FILE & SURVEY INSTRUMENTATION CALIBRATION SUMMARY**

03/24/98

Gamma Exposure Rate Measurements At 1 Meter

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Survey Package: B1400 SURFACES & STRUCTURES  
Visitor and Information Center - Elevation 1

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SURVEY DATE	FILE #	M2350		DETECTOR			TECHNICIAN
		INST S/N	CAL DUE	MODEL	S/N	CAL DUE	
1/19/98	430 (2)	098639	4/16/98	44-2	129770	5/12/98	JJP1813

CALIBRATION DATES VERIFIED AS ACCEPTABLE

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Maine Yankee Atomic Power Plant Site Characterization

04/01/98

**CHARACTERIZATION SUMMARY**

SURVEY PACKAGE NUMBER :B1500

SURFACES & STRUCTURES

PACKAGE DESCRIPTION

Warehouse 2 - Elevation 1

SURVEY AREA DESCRIPTION

Warehouse 2

**GENERAL HISTORICAL INFORMATION (Operational history, etc.)**

Warehouse 2 is a storage building for plant materials, chemicals, equipment, etc. Construction is heavy steel frame and concrete floor with a 4' high concrete foundation. Walls and ceiling are mostly corrugated metal. One area, used for chemical storage, has concrete walls on all sides. It also has several small offices and a kitchen.

**SUMMARY OF CHARACTERIZATION ACTIVITIES**

Survey units were established for the areas as shown in the following Summary of Survey Units. Maps with the survey measurement locations for this package are included on the following pages.

Performed a scan of approximately five square meters at 60 survey measurement locations indicated on the survey map(s). This was approximately 10% of the accessible surface area.

Collected direct measurements for total beta activity at 60 survey measurement locations at the highest location identified in the scan. If an elevated location was not observed, the measurement was collected at an arbitrary location, selected by the technician, within the five square meter scanned area.

Collected smear samples to analyze for removable alpha and beta activity at the same 60 survey locations of direct measurements for total beta activity within the five square meter scanned area.

Collected one meter gamma exposure rate measurements at 30 survey locations for direct measurements for total beta activity on floor surfaces.

The survey result statistical summaries, graphs and results listings are shown in the following individual reports including calibration summaries for the instruments used for each measurement type.

**CHARACTERIZATION SURVEY RESULTS**

- o There were no direct measurements for total beta activity above MDA (566 dpm/100cm<sup>2</sup>).
- o There was 1 measurement for removable beta activity above MDA (17.8 dpm/100cm<sup>2</sup>) and no result greater than 100 dpm/100cm<sup>2</sup>. The maximum measurement result was 19.4 dpm/100cm<sup>2</sup>.
- o There were no measurements for removable alpha activity above MDA (7.3 dpm/100cm<sup>2</sup>).
- o The average and maximum one meter exposure rate measurement results were 10.3 µR/hr and 15.1 µR/hr respectively.

**REFERENCES (Documents, Interviews)**



Maine Yankee Atomic Power Plant Site Characterization

SUMMARY OF SURVEY UNIT(S)

03/24/98

OUTPUT BATCH SN = 233

PACKAGE B1500 SURFACES & STRUCTURES  
Warehouse 2 - Elevation 1

UNIT(S)	SURFACE(S)
01 - Warehouse 2	FL1 (Floor)
02 - Overhead	WC1 (Walls and Ceiling)

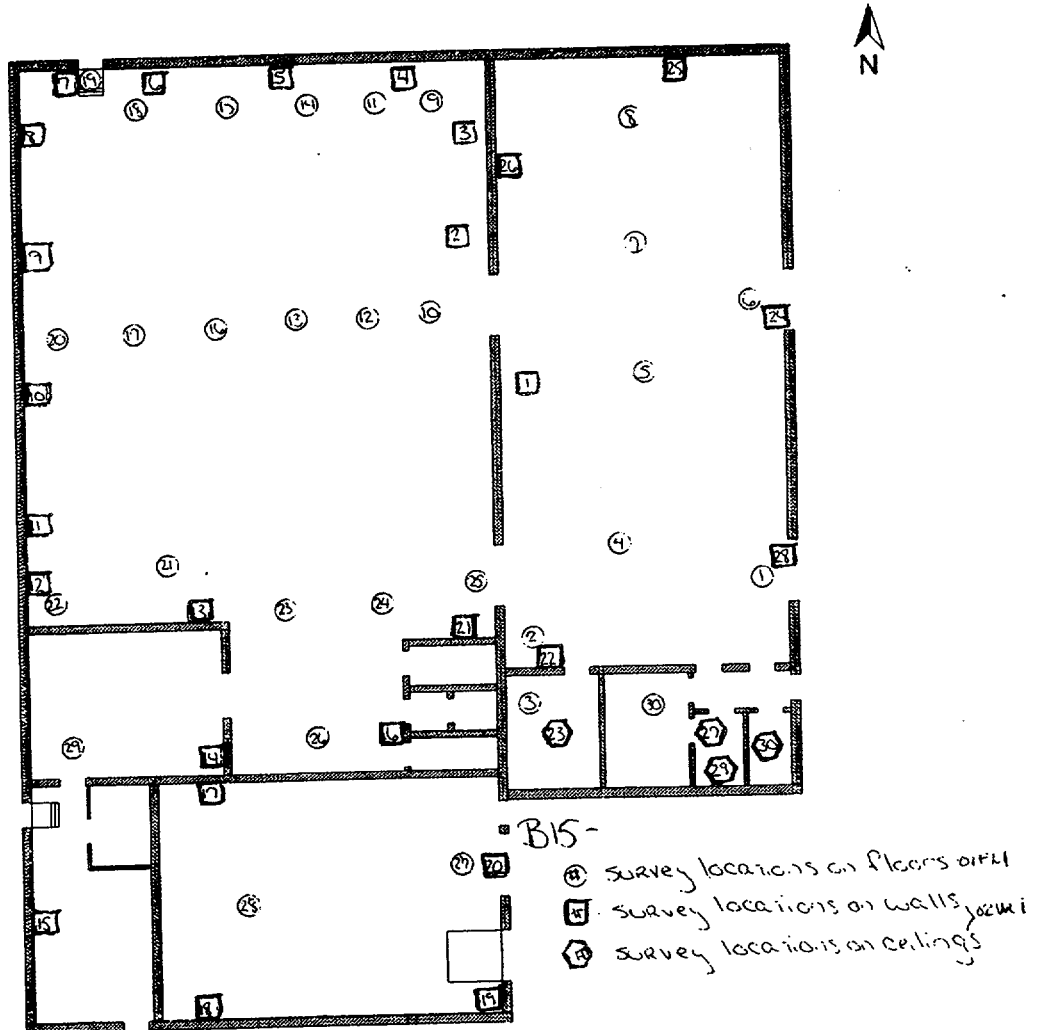
REASON(S) CHARACTERIZATION SURVEY (C01)

MATERIALS	MAT'L CODE	MATERIAL DESCRIPTION	BETA BKGD (dpm/100 cm <sup>2</sup> )
	B0001	CONCRETE - PAINTED (INTERIOR)	478.0
	B0002	CONCRETE - BARE (INTERIOR)	665.0
	B0003	CINDER BLOCK - PAINTED (INTERIOR)	478.0
	B0004	CINDER BLOCK - BARE (INTERIOR)	665.0
	B0025	WOOD - PAINTED	0.0
	B0031	METAL - BARE	0.0
	B0035	DRYWALL - PAINTED	0.0
	B0036	METAL - PAINTED	0.0
	B0047	BLANKET INSULATION	0.0

Maine Yankee Atomic Power Plant Site Characterization

SURVEY PACKAGE B1500

Maine Yankee Warehouse





Maine Yankee Atomic Power Plant Site Characterization

03/24/98

Direct Measurements For Total Beta Activity

Survey Package B1500 SURFACES & STRUCTURES  
Warehouse 2 - Elevation 1

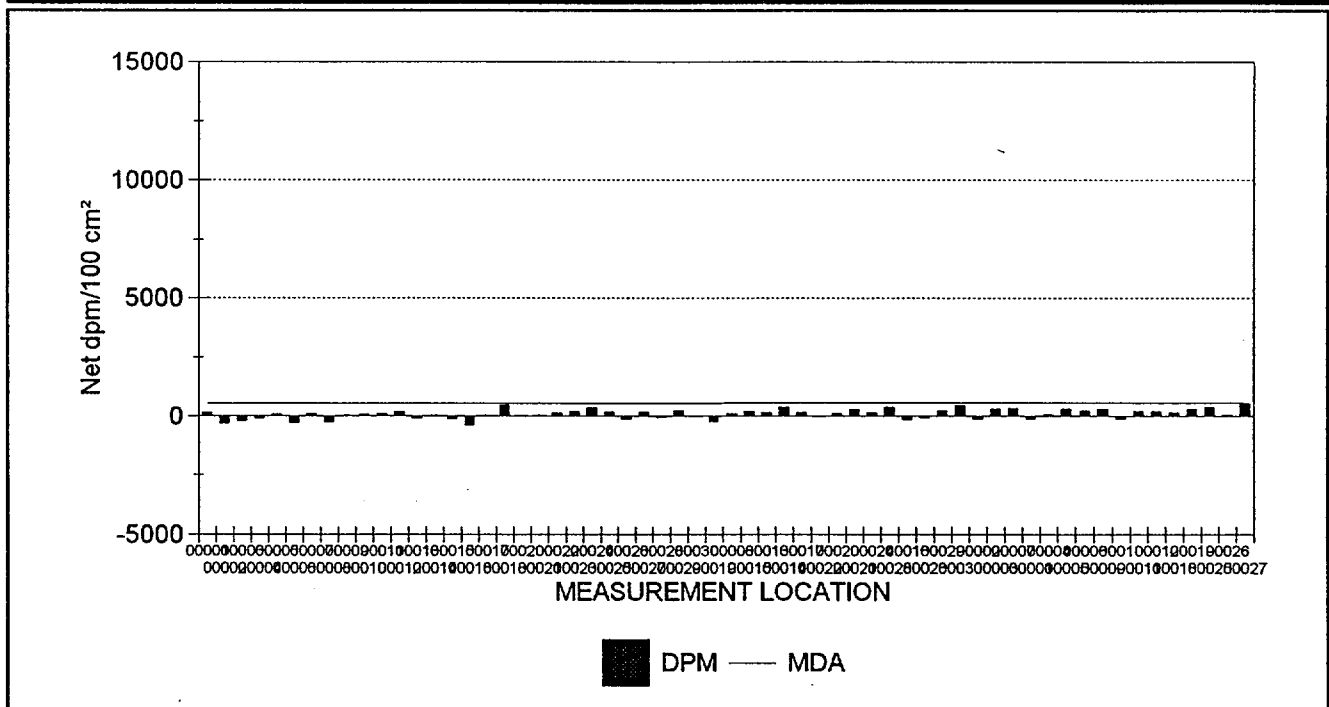
STATISTICAL SUMMARY

TESTS PERFORMED

	Net dpm/100 cm <sup>2</sup>
Mean	96.1
Maximum	539.0
Minimum	-388.4
Standard Deviation	212.4
MDA	565.9

Samples reported satisfy samples prescribed	YES
MDA <2000 net dpm/100 cm <sup>2</sup>	YES
Results above 2000 net dpm/100 cm <sup>2</sup>	0
Number of results above MDA	0

Samples Reported	60
Samples Prescribed	60



60 RESULTS ARE GRAPHED



## Maine Yankee Atomic Power Plant Site Characterization

03/24/98

## Direct Measurements For Total Beta Activity

Survey Package : B1500 SURFACES & STRUCTURES  
Warehouse 2 - Elevation 1

## RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	MDA	RESULT
24 (2)	01	FL1	B0001	C01	10	00001	557.2	156.9
24 (2)	01	FL1	B0001	C01	10	00002	557.2	-317.3
24 (2)	01	FL1	B0001	C01	10	00003	557.2	-198.7
24 (2)	01	FL1	B0001	C01	10	00004	557.2	-103.9
24 (2)	01	FL1	B0001	C01	10	00005	557.2	85.8
24 (2)	01	FL1	B0001	C01	10	00006	557.2	-293.6
24 (2)	01	FL1	B0001	C01	10	00007	557.2	109.5
24 (2)	01	FL1	B0001	C01	10	00008	557.2	-269.9
24 (2)	01	FL1	B0001	C01	10	00009	557.2	38.4
24 (2)	01	FL1	B0001	C01	10	00010	557.2	85.8
24 (2)	01	FL1	B0001	C01	10	00011	557.2	109.5
24 (2)	01	FL1	B0001	C01	10	00012	557.2	180.7
24 (2)	01	FL1	B0001	C01	10	00013	557.2	-103.9
24 (2)	01	FL1	B0001	C01	10	00014	557.2	14.7
24 (2)	01	FL1	B0001	C01	10	00015	557.2	-127.6
24 (2)	01	FL1	B0001	C01	10	00016	557.2	-388.4
24 (2)	01	FL1	B0001	C01	10	00017	557.2	38.4
24 (2)	01	FL1	B0001	C01	10	00018	557.2	465.2
24 (2)	01	FL1	B0001	C01	10	00020	557.2	38.4
24 (2)	01	FL1	B0001	C01	10	00021	557.2	38.4
24 (2)	01	FL1	B0001	C01	10	00022	557.2	133.2
24 (2)	01	FL1	B0001	C01	10	00023	557.2	204.4
24 (2)	01	FL1	B0001	C01	10	00024	557.2	370.4
24 (2)	01	FL1	B0001	C01	10	00025	557.2	180.7
24 (2)	01	FL1	B0001	C01	10	00026	557.2	-127.6
24 (2)	01	FL1	B0001	C01	10	00027	557.2	180.7
24 (2)	01	FL1	B0001	C01	10	00028	557.2	-56.5
24 (2)	01	FL1	B0001	C01	10	00029	557.2	228.1
24 (2)	01	FL1	B0001	C01	10	00030	557.2	-32.7
24 (2)	01	FL1	B0002	C01	10	00019	557.2	-243.5
31 (2)	02	WC1	B0002	C01	10	00008	565.9	100.6
31 (2)	02	WC1	B0003	C01	10	00015	565.9	197.0
31 (2)	02	WC1	B0004	C01	10	00013	565.9	146.0
31 (2)	02	WC1	B0004	C01	10	00014	565.9	395.3
31 (2)	02	WC1	B0004	C01	10	00017	565.9	146.0
31 (2)	02	WC1	B0025	C01	10	00022	565.9	-27.7
31 (2)	02	WC1	B0031	C01	10	00020	565.9	108.3
31 (2)	02	WC1	B0031	C01	10	00021	565.9	289.6
31 (2)	02	WC1	B0031	C01	10	00024	565.9	153.6
31 (2)	02	WC1	B0031	C01	10	00028	565.9	403.0

NOTES: Activity reported in net dpm/100 cm<sup>2</sup>. Count times are reported in seconds.  
Underlined values exceed the MDA.  
Bold values exceed 2000 dpm/100 cm<sup>2</sup>.





## Maine Yankee Atomic Power Plant Site Characterization

03/24/98

## Direct Measurements For Total Beta Activity

Survey Package : B1500 SURFACES & STRUCTURES  
Warehouse 2 - Elevation 1

## RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	MDA	RESULT
31 (2)	02	WC1	B0035	C01	10	00016	565.9	-163.7
31 (2)	02	WC1	B0035	C01	10	00023	565.9	-73.0
31 (2)	02	WC1	B0035	C01	10	00029	565.9	221.6
31 (2)	02	WC1	B0035	C01	10	00030	565.9	471.0
31 (2)	02	WC1	B0036	C01	10	00002	565.9	-141.0
31 (2)	02	WC1	B0036	C01	10	00003	565.9	312.3
31 (2)	02	WC1	B0036	C01	10	00007	565.9	335.0
31 (2)	02	WC1	B0047	C01	10	00001	565.9	-141.0
31 (2)	02	WC1	B0047	C01	10	00004	565.9	63.0
31 (2)	02	WC1	B0047	C01	10	00005	565.9	312.3
31 (2)	02	WC1	B0047	C01	10	00006	565.9	244.3
31 (2)	02	WC1	B0047	C01	10	00009	565.9	312.3
31 (2)	02	WC1	B0047	C01	10	00010	565.9	-141.0
31 (2)	02	WC1	B0047	C01	10	00011	565.9	199.0
31 (2)	02	WC1	B0047	C01	10	00012	565.9	199.0
31 (2)	02	WC1	B0047	C01	10	00018	565.9	153.6
31 (2)	02	WC1	B0047	C01	10	00019	565.9	312.3
31 (2)	02	WC1	B0047	C01	10	00025	565.9	403.0
31 (2)	02	WC1	B0047	C01	10	00026	565.9	40.3
31 (2)	02	WC1	B0047	C01	10	00027	565.9	539.0

NOTES: Activity reported in net dpm/100 cm<sup>2</sup>. Count times are reported in seconds.  
Underlined values exceed the MDA.  
Bold values exceed 2000 dpm/100 cm<sup>2</sup>.  
60 results are listed.



## Maine Yankee Atomic Power Plant Site Characterization

## DOWNLOAD FILE & SURVEY INSTRUMENTATION CALIBRATION SUMMARY

03/24/98

Direct Measurements For Total Beta Activity

Survey Package : B1500 SURFACES &amp; STRUCTURES

Warehouse 2 - Elevation 1

SURVEY DATE	FILE #	M2350		DETECTOR			PRE EFF	TECHNICIAN
		INST S/N	CAL DUE	MODEL	S/N	CAL DUE		
11/17/97	24 (2)	98620	3/20/98	43-106	128919	3/20/98	.20	DRK2986
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
11/18/97	31 (2)	126196	4/15/98	43-106	126897	4/18/98	.21	DJH2236
CALIBRATION DATES VERIFIED AS ACCEPTABLE								



Maine Yankee Atomic Power Plant Site Characterization

03/24/98

Removable Contamination - Gross Beta Activity

Survey Package B1500 SURFACES & STRUCTURES  
Warehouse 2 - Elevation 1

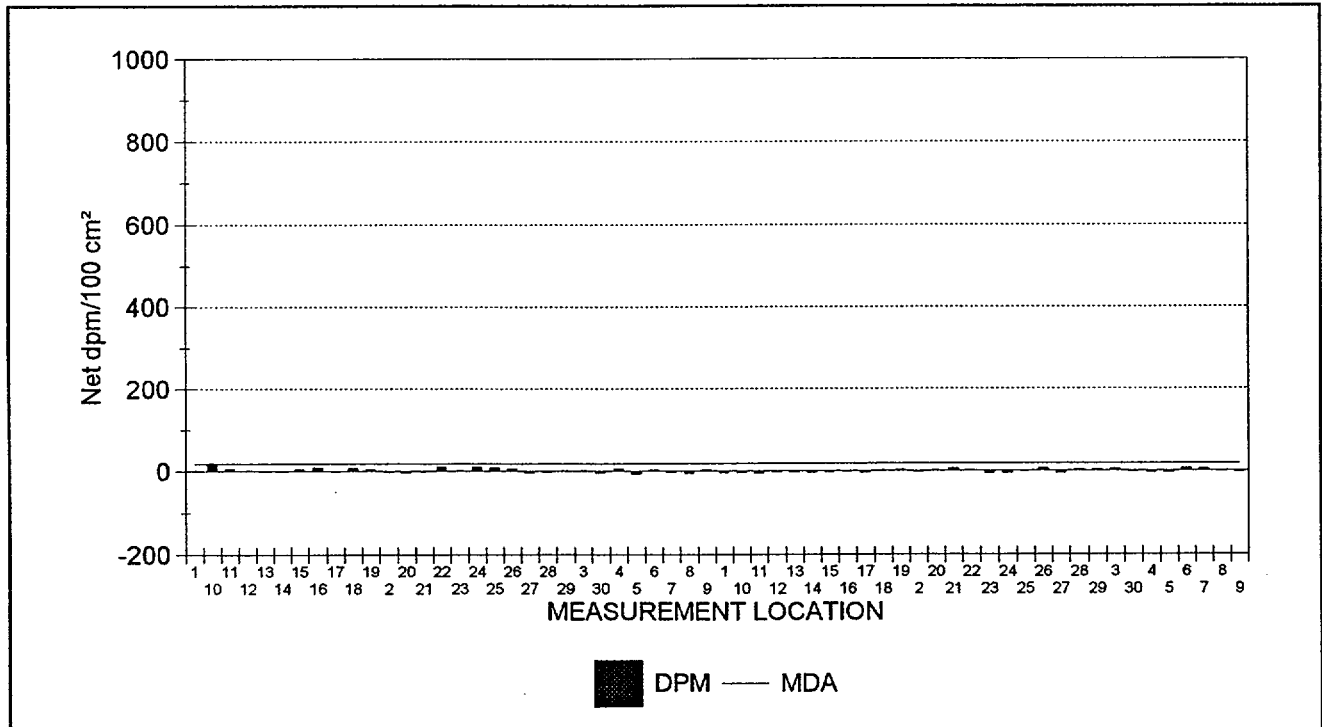
STATISTICAL SUMMARY

TESTS PERFORMED

	Net dpm/100 cm <sup>2</sup>
Mean	0.6
Maximum	19.4
Minimum	-7.5
Standard Deviation	5.2
MDA	17.8

Samples reported satisfy samples prescribed	YES
MDA <100 net dpm/100 cm <sup>2</sup>	YES
Results above 100 net dpm/100 cm <sup>2</sup>	0
Number of results above MDA	1

Samples Reported	60
Samples Prescribed	60





Maine Yankee Atomic Power Plant Site Characterization

03/24/98

Removable Contamination - Gross Alpha Activity

Survey Package B1500 SURFACES & STRUCTURES  
Warehouse 2 - Elevation 1

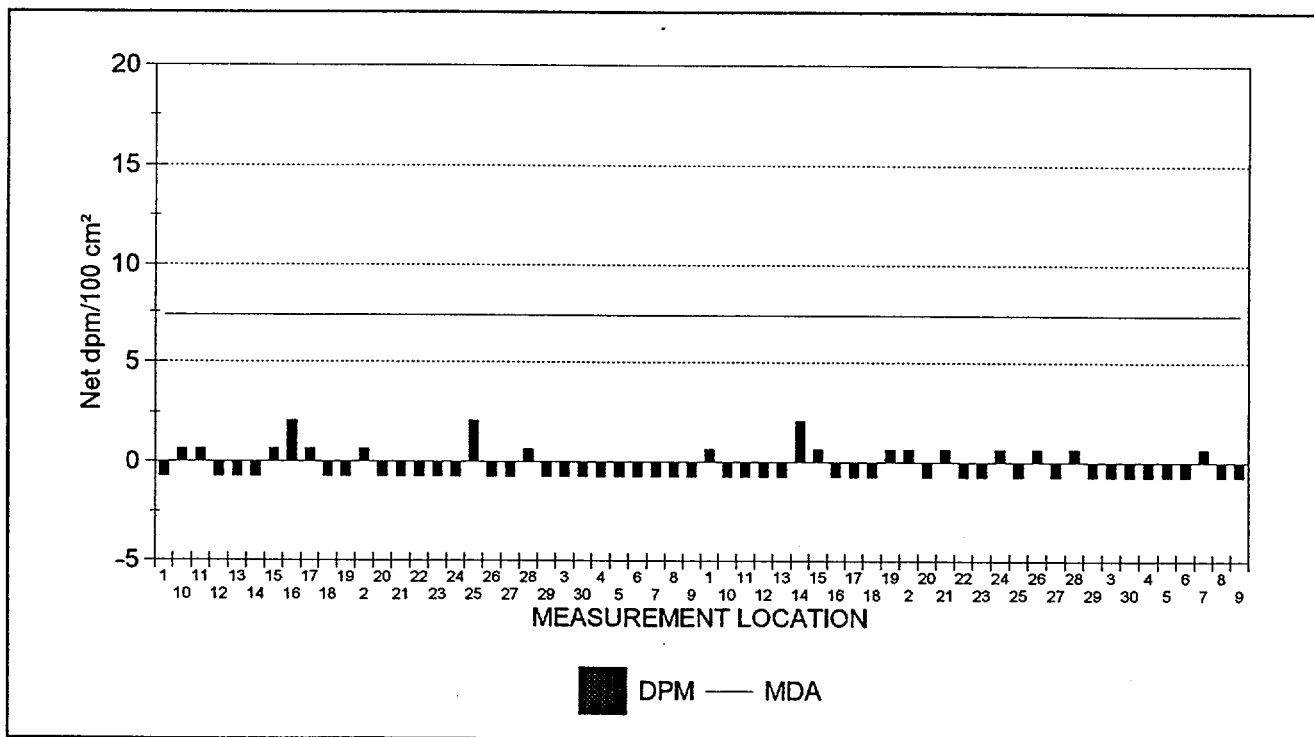
STATISTICAL SUMMARY

TESTS PERFORMED

	Net dpm/100 cm <sup>2</sup>
Mean	-0.3
Maximum	2.1
Minimum	-0.8
Standard Deviation	0.8
MDA	7.3

Samples reported satisfy samples prescribed	YES
MDA <10 net dpm/100 cm <sup>2</sup>	YES
Results above 20 net dpm/100 cm <sup>2</sup>	0
Number of results above MDA	0

Samples Reported	60
Samples Prescribed	60



60 RESULTS ARE GRAPHED



## Maine Yankee Atomic Power Plant Site Characterization

03/24/98

## Removable Contamination

Survey Package : B1500 SURFACES & STRUCTURES  
Warehouse 2 - Elevation 1

## RESULTS LISTING - SORTED BY SURFACE CODE

XLS FILE	UNIT	SURFACE	REASON	COUNT TIME	MSRMNT LOCATION	ALPHA	BETA
SME1B043.XLS	02	WC1	C01	2	9	-0.8	-2.5
SME1B043.XLS	02	WC1	C01	2	8	-0.8	-0.8
SME1B043.XLS	02	WC1	C01	2	7	0.7	4.3
SME1B043.XLS	02	WC1	C01	2	6	-0.8	5.9
SME1B043.XLS	02	WC1	C01	2	5	-0.8	-4.1
SME1B043.XLS	02	WC1	C01	2	4	-0.8	-4.1
SME1B043.XLS	02	WC1	C01	2	30	-0.8	-2.5
SME1B043.XLS	02	WC1	C01	2	3	-0.8	4.3
SME1B043.XLS	02	WC1	C01	2	29	-0.8	2.6
SME1B043.XLS	02	WC1	C01	2	28	0.7	2.6
SME1B043.XLS	02	WC1	C01	2	27	-0.8	-5.8
SME1B043.XLS	02	WC1	C01	2	26	0.7	5.9
SME1B043.XLS	02	WC1	C01	2	25	-0.8	-0.8
SME1B043.XLS	02	WC1	C01	2	24	0.7	-5.8
SME1B043.XLS	02	WC1	C01	2	23	-0.8	-5.8
SME1B043.XLS	02	WC1	C01	2	22	-0.8	0.9
SME1B043.XLS	02	WC1	C01	2	21	0.7	5.9
SME1B043.XLS	02	WC1	C01	2	20	-0.8	0.9
SME1B043.XLS	02	WC1	C01	2	2	0.7	-2.5
SME1B043.XLS	02	WC1	C01	2	19	0.7	2.6
SME1B043.XLS	02	WC1	C01	2	18	-0.8	0.9
SME1B043.XLS	02	WC1	C01	2	17	-0.8	-4.1
SME1B043.XLS	02	WC1	C01	2	16	-0.8	-0.8
SME1B043.XLS	02	WC1	C01	2	15	0.7	-2.5
SME1B043.XLS	02	WC1	C01	2	14	2.1	-4.1
SME1B043.XLS	02	WC1	C01	2	13	-0.8	-2.5
SME1B043.XLS	02	WC1	C01	2	12	-0.8	-2.5
SME1B043.XLS	02	WC1	C01	2	11	-0.8	-5.8
SME1B043.XLS	02	WC1	C01	2	10	-0.8	-4.1
SME1B043.XLS	02	WC1	C01	2	1	0.7	-4.1
SME1B043.XLS	01	FL1	C01	2	9	-0.8	2.6
SME1B043.XLS	01	FL1	C01	2	8	-0.8	-5.8
SME1B043.XLS	01	FL1	C01	2	7	-0.8	-2.5
SME1B043.XLS	01	FL1	C01	2	6	-0.8	2.6
SME1B043.XLS	01	FL1	C01	2	5	-0.8	-7.5
SME1B043.XLS	01	FL1	C01	2	4	-0.8	5.9
SME1B043.XLS	01	FL1	C01	2	30	-0.8	-4.1
SME1B043.XLS	01	FL1	C01	2	3	-0.8	0.9
SME1B043.XLS	01	FL1	C01	2	29	-0.8	0.9
SME1B043.XLS	01	FL1	C01	2	28	0.7	-2.5

NOTES: Activity reported in net dpm/100 cm<sup>2</sup>. Count times are reported in minutes.  
Underlined values exceed the associated MDA.  
Bold values exceed 100.00 dpm/100 cm<sup>2</sup> (beta activity) and/or 20.00 dpm/100 cm<sup>2</sup> (alpha activity).



## Maine Yankee Atomic Power Plant Site Characterization

03/24/98

## Removable Contamination

Survey Package : B1500 SURFACES & STRUCTURES  
Warehouse 2 - Elevation 1

## RESULTS LISTING - SORTED BY SURFACE CODE

XLS FILE	UNIT	SURFACE	REASON	COUNT	MSRMNT	ALPHA	BETA
				TIME	LOCATION		
SME1B043.XLS	01	FL1	C01	2	27	-0.8	-4.1
SME1B043.XLS	01	FL1	C01	2	26	-0.8	5.9
SME1B043.XLS	01	FL1	C01	2	25	2.1	9.3
SME1B043.XLS	01	FL1	C01	2	24	-0.8	11.0
SME1B043.XLS	01	FL1	C01	2	23	-0.8	0.9
SME1B043.XLS	01	FL1	C01	2	22	-0.8	11.0
SME1B043.XLS	01	FL1	C01	2	21	-0.8	-0.8
SME1B043.XLS	01	FL1	C01	2	20	-0.8	-4.1
SME1B043.XLS	01	FL1	C01	2	2	0.7	-2.5
SME1B043.XLS	01	FL1	C01	2	19	-0.8	4.3
SME1B043.XLS	01	FL1	C01	2	18	-0.8	7.6
SME1B043.XLS	01	FL1	C01	2	17	0.7	-0.8
SME1B043.XLS	01	FL1	C01	2	16	2.1	9.3
SME1B043.XLS	01	FL1	C01	2	15	0.7	4.3
SME1B043.XLS	01	FL1	C01	2	14	-0.8	-0.8
SME1B043.XLS	01	FL1	C01	2	13	-0.8	-0.8
SME1B043.XLS	01	FL1	C01	2	12	-0.8	0.9
SME1B043.XLS	01	FL1	C01	2	11	0.7	5.9
SME1B043.XLS	01	FL1	C01	2	10	0.7	19.4
SME1B043.XLS	01	FL1	C01	2	1	-0.8	0.9

NOTES: Activity reported in net dpm/100 cm<sup>2</sup>. Count times are reported in minutes.  
 Underlined values exceed the associated MDA.  
 Bold values exceed 100.00 dpm/100 cm<sup>2</sup> (beta activity) and/or 20.00 dpm/100 cm<sup>2</sup> (alpha activity).  
 60 results are listed.



Maine Yankee Atomic Power Plant Site Characterization

DATAFILE & TENNELEC CALIBRATION SUMMARY

03/24/98

Removable Contamination

Survey Package : B1500 SURFACES & STRUCTURES  
Warehouse 2 - Elevation 1

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SURVEYDATE	XLS FILE	INST ID	S/N	CAL DUE	LAB TECHNICIAN
2/11/98	SME1B043.XLS	1	14131	8/7/98	RWD

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CALIBRATION DATE VERIFIED AS ACCEPTABLE

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Maine Yankee Atomic Power Plant Site Characterization

03/24/98

Gamma Exposure Rate Measurements At 1 Meter

Survey Package B1500 SURFACES & STRUCTURES  
Warehouse 2 - Elevation 1

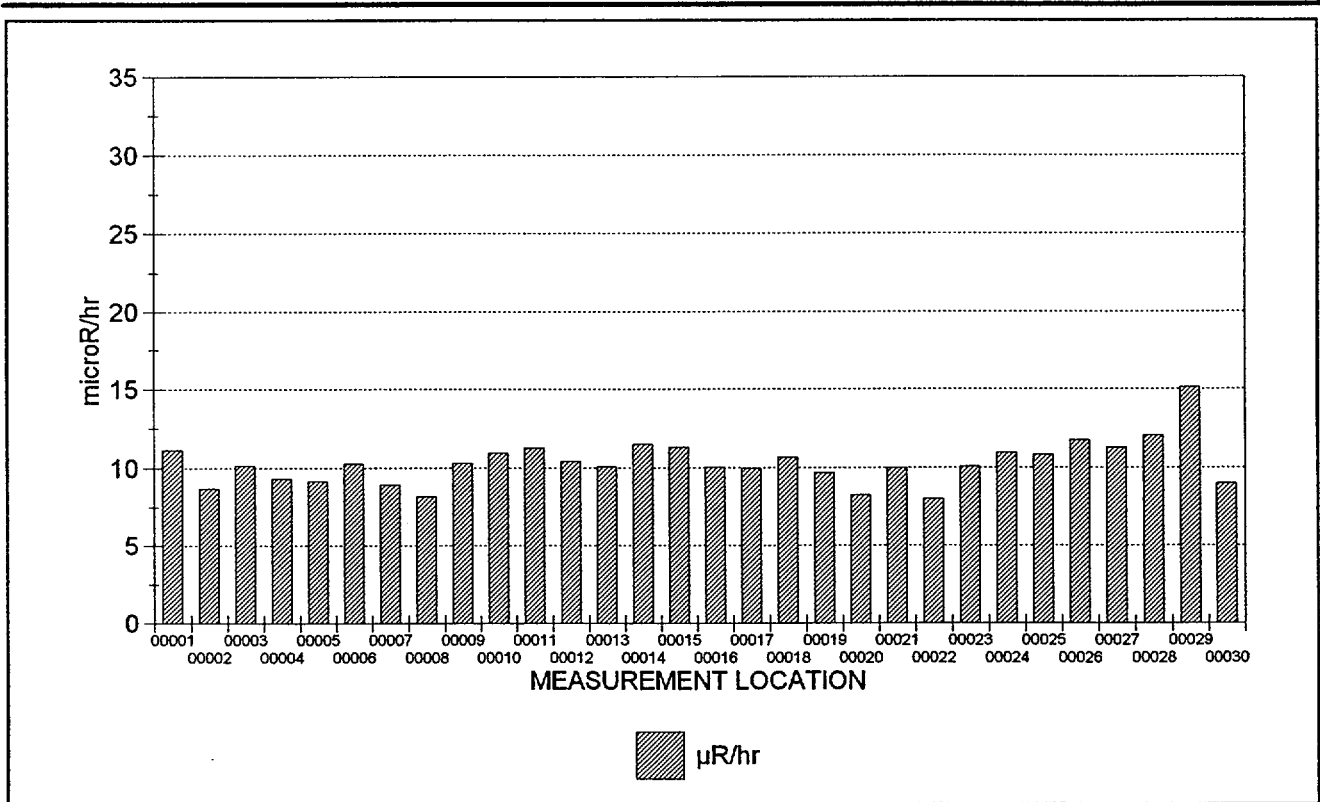
STATISTICAL SUMMARY

TESTS PERFORMED

	$\mu\text{R/hr}$
Mean	10.3
Maximum	15.1
Minimum	8.0
Standard Deviation	1.4

Samples reported satisfy samples prescribed YES

Samples Reported	30
Samples Prescribed	30



30 RESULTS ARE GRAPHED





## Maine Yankee Atomic Power Plant Site Characterization

03/24/98

## Gamma Exposure Rate Measurements At 1 Meter

Survey Package : B1500 SURFACES & STRUCTURES  
Warehouse 2 - Elevation 1

## RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	RESULT
50 (2)	01	FL1	B0001	C01	60.00	00001	11.1
50 (2)	01	FL1	B0001	C01	60.00	00002	8.7
50 (2)	01	FL1	B0001	C01	60.00	00003	10.1
50 (2)	01	FL1	B0001	C01	60.00	00004	9.3
50 (2)	01	FL1	B0001	C01	60.00	00005	9.2
50 (2)	01	FL1	B0001	C01	60.00	00006	10.3
50 (2)	01	FL1	B0001	C01	60.00	00007	8.9
50 (2)	01	FL1	B0001	C01	60.00	00008	8.2
50 (2)	01	FL1	B0001	C01	60.00	00009	10.3
50 (2)	01	FL1	B0001	C01	60.00	00010	10.9
50 (2)	01	FL1	B0001	C01	60.00	00011	11.3
50 (2)	01	FL1	B0001	C01	60.00	00012	10.4
50 (2)	01	FL1	B0001	C01	60.00	00013	10.1
50 (2)	01	FL1	B0001	C01	60.00	00014	11.5
50 (2)	01	FL1	B0001	C01	60.00	00015	11.3
50 (2)	01	FL1	B0001	C01	60.00	00016	10.0
50 (2)	01	FL1	B0001	C01	60.00	00017	10.0
50 (2)	01	FL1	B0001	C01	60.00	00018	10.7
50 (2)	01	FL1	B0001	C01	60.00	00019	9.7
50 (2)	01	FL1	B0001	C01	60.00	00020	8.2
50 (2)	01	FL1	B0001	C01	60.00	00021	10.0
50 (2)	01	FL1	B0001	C01	60.00	00022	8.0
50 (2)	01	FL1	B0001	C01	60.00	00023	10.1
50 (2)	01	FL1	B0001	C01	60.00	00024	10.9
50 (2)	01	FL1	B0001	C01	60.00	00025	10.8
50 (2)	01	FL1	B0001	C01	60.00	00026	11.7
50 (2)	01	FL1	B0001	C01	60.00	00027	11.2
50 (2)	01	FL1	B0001	C01	60.00	00028	12.0
50 (2)	01	FL1	B0001	C01	60.00	00029	<b>15.1</b>
50 (2)	01	FL1	B0001	C01	60.00	00030	9.0

NOTES: Exposure rates reported in net  $\mu\text{R/hr}$ . Count times are reported in seconds.  
Underlined results did not meet the minimum required count time.  
Bold values exceed 15  $\mu\text{R/hr}$ .  
30 results are listed.



## Maine Yankee Atomic Power Plant Site Characterization

## DOWNLOAD FILE &amp; SURVEY INSTRUMENTATION CALIBRATION SUMMARY

03/24/98

Gamma Exposure Rate Measurements At 1 Meter

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Survey Package : B1500 SURFACES & STRUCTURES  
Warehouse 2 - Elevation 1

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SURVEY DATE	FILE #	M2350		DETECTOR			TECHNICIAN
		INST S/N	CAL DUE	MODEL	S/N	CAL DUE	
12/1/97	50 (2)	126196	4/15/98	44-2	095100	4/19/98	DJH2236

CALIBRATION DATES VERIFIED AS ACCEPTABLE

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Maine Yankee Atomic Power Plant Site Characterization

04/01/98

**CHARACTERIZATION SUMMARY**

SURVEY PACKAGE NUMBER :B1600

SURFACES & STRUCTURES

PACKAGE DESCRIPTION

Training Annex Building - Elevation 1

SURVEY AREA DESCRIPTION

Training Annex

**GENERAL HISTORICAL INFORMATION (Operational history, etc.)**

The Training Annex was used for mock-up training for steam generators, valve and pump repair. Electrical maintenance and I&C have training rooms at the south end of the building. The building still contains all valves, steam generator bowl, etc. used for training. Construction is concrete floor, heavy steel frame, and corrugated metal siding.

**SUMMARY OF CHARACTERIZATION ACTIVITIES**

Survey units were established for the areas as shown in the following Summary of Survey Units. Maps with the survey measurement locations for this package are included on the following pages.

Performed a scan of approximately five square meters at 46 survey measurement locations indicated on the survey map(s). This was approximately 10% of the accessible surface area.

Collected direct measurements for total beta activity at 46 survey measurement locations at the highest location identified in the scan. If an elevated location was not observed, the measurement was collected at an arbitrary location, selected by the technician, within the five square meter scanned area.

Collected smear samples to analyze for removable alpha and beta activity at the same 46 survey locations of direct measurements for total beta activity.

Collected one meter gamma exposure rate measurements at 14 survey locations for direct measurements for total beta activity on floor surfaces.

The survey result statistical summaries, graphs and results listings are shown in the following individual reports including calibration summaries for the instruments used for each measurement type.

**CHARACTERIZATION SURVEY RESULTS**

- o There was 1 direct measurement for total beta activity above MDA (657 dpm/100cm<sup>2</sup>) and no results greater than 2000 dpm/100cm<sup>2</sup>. The maximum measurement result was 708 dpm/100cm<sup>2</sup>.
- o There were no measurements for removable beta activity above MDA (17.8 dpm/100cm<sup>2</sup>).
- o There were no measurements for removable alpha activity above MDA (7.3 dpm/100cm<sup>2</sup>).
- o The average and maximum one meter exposure rate measurement results were 17.8 µR/hr and 23.8 µR/hr respectively.

**REFERENCES (Documents, Interviews)**



Maine Yankee Atomic Power Plant Site Characterization

SUMMARY OF SURVEY UNIT(S)

03/22/98

OUTPUT BATCH SN = 202

**PACKAGE B1600 SURFACES & STRUCTURES**  
 Training Annex Building - Elevation 1

UNIT(S)	SURFACE(S)
01 - Training Annex	CL1 (Ceiling) EQ1 (Equipment) FL1 (Floor) WS1 (Walls)

**REASON(S)** CHARACTERIZATION SURVEY (C01)

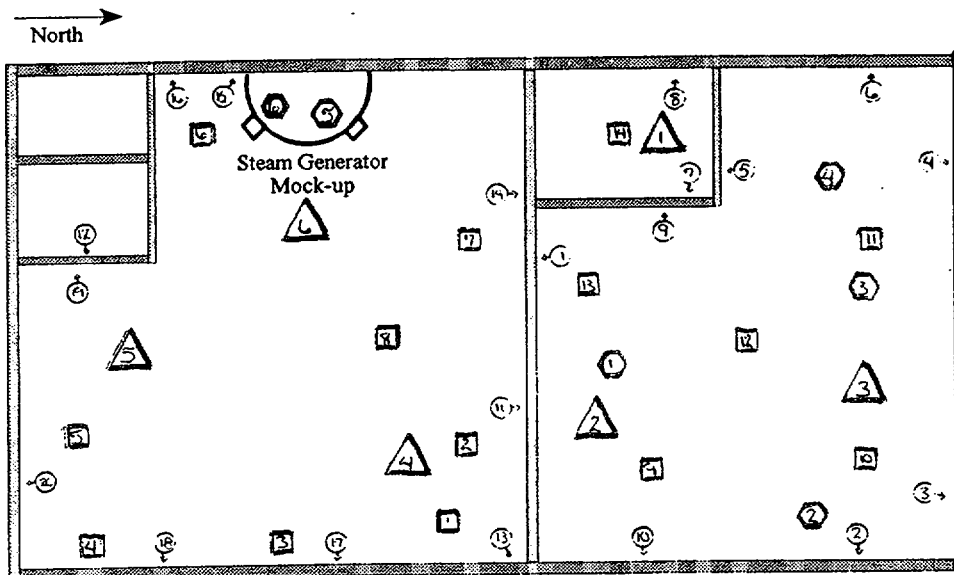
MATERIALS	MAT'L CODE	MATERIAL DESCRIPTION	BETA BKGD (dpm/100 cm <sup>2</sup> )
	B0001	CONCRETE - PAINTED (INTERIOR)	478.0
	B0027	CARPET (OVER CONCRETE)	0.0
	B0033	CEILING TILE - FIBERBOARD	0.0
	B0035	DRYWALL - PAINTED	0.0
	B0036	METAL - PAINTED	0.0
	B0047	BLANKET INSULATION	0.0



Maine Yankee Atomic Power Plant Site Characterization

SURVEY PACKAGE B1600

Training Annex



B16 -

- ⊙ - survey locations on walls - all
- ⊠ - survey locations on floors - all
- ⊕ - survey locations on equipment - all
- ⊠ - survey locations on ceilings - all



Maine Yankee Atomic Power Plant Site Characterization

03/22/98

Direct Measurements For Total Beta Activity

Survey Package B1600 SURFACES & STRUCTURES  
Training Annex Building - Elevation 1

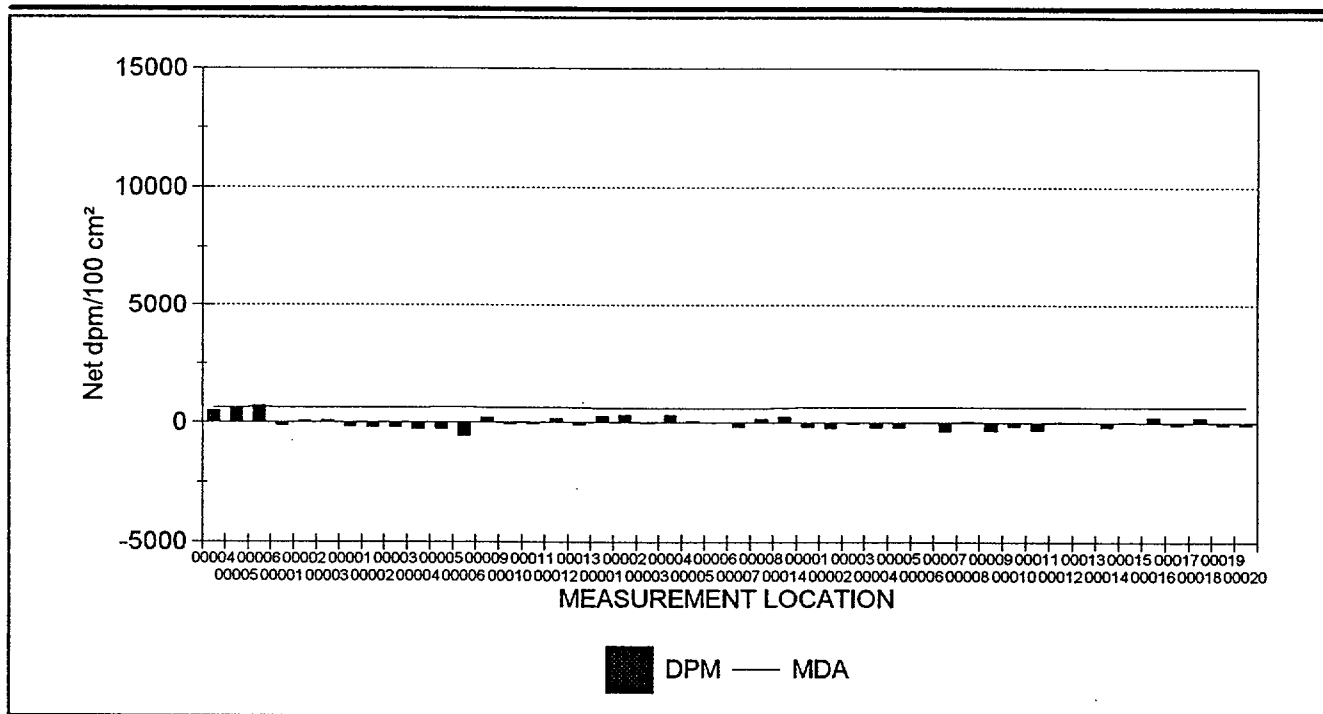
STATISTICAL SUMMARY

TESTS PERFORMED

	Net dpm/100 cm <sup>2</sup>
Mean	-13.5
Maximum	708.2
Minimum	-580.6
Standard Deviation	256.1
MDA	656.9

Samples reported satisfy samples prescribed	YES
MDA <2000 net dpm/100 cm <sup>2</sup>	YES
Results above 2000 net dpm/100 cm <sup>2</sup>	0
Number of results above MDA	1

Samples Reported	46
Samples Prescribed	46



46 RESULTS ARE GRAPHED



## Maine Yankee Atomic Power Plant Site Characterization

03/22/98

## Direct Measurements For Total Beta Activity

Survey Package : B1600 SURFACES & STRUCTURES  
 Training Annex Building - Elevation 1

## RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	MDA	RESULT
373 (2)	01	CL1	B0033	C01	10	00004	629.5	483.1
373 (2)	01	CL1	B0033	C01	10	00005	629.5	596.5
372 (2)	01	CL1	B0033	C01	10	00006	656.9	<u>708.2</u>
373 (2)	01	CL1	B0035	C01	10	00001	629.5	-129.1
373 (2)	01	CL1	B0036	C01	10	00002	629.5	52.3
373 (2)	01	CL1	B0047	C01	10	00003	629.5	75.0
373 (2)	01	EQ1	B0036	C01	10	00001	629.5	-174.5
373 (2)	01	EQ1	B0036	C01	10	00002	629.5	-197.2
373 (2)	01	EQ1	B0036	C01	10	00003	629.5	-197.2
373 (2)	01	EQ1	B0036	C01	10	00004	629.5	-287.9
372 (2)	01	EQ1	B0036	C01	10	00005	656.9	-299.4
372 (2)	01	EQ1	B0036	C01	10	00006	656.9	-580.6
373 (2)	01	FL1	B0001	C01	10	00009	629.5	209.2
373 (2)	01	FL1	B0001	C01	10	00010	629.5	-85.6
373 (2)	01	FL1	B0001	C01	10	00011	629.5	-62.9
373 (2)	01	FL1	B0001	C01	10	00012	629.5	163.9
373 (2)	01	FL1	B0001	C01	10	00013	629.5	-108.3
365 (2)	01	FL1	B0027	C01	10	00001	607.5	257.9
365 (2)	01	FL1	B0027	C01	10	00002	607.5	325.5
365 (2)	01	FL1	B0027	C01	10	00003	607.5	-35.1
365 (2)	01	FL1	B0027	C01	10	00004	607.5	303.0
365 (2)	01	FL1	B0027	C01	10	00005	607.5	55.1
365 (2)	01	FL1	B0027	C01	10	00006	607.5	-12.5

## REMAINING RESULTS PRINTED ON NEXT PAGE

NOTES: Activity reported in net dpm/100 cm<sup>2</sup>. Count times are reported in seconds.  
 Underlined values exceed the MDA.  
 Bold values exceed 2000 dpm/100 cm<sup>2</sup>.



## Maine Yankee Atomic Power Plant Site Characterization

03/22/98

## Direct Measurements For Total Beta Activity

Survey Package : B1600 SURFACES & STRUCTURES  
 Training Annex Building - Elevation 1

## RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	MDA	RESULT
365 (2)	01	FL1	B0027	C01	10	00007	607.5	-192.8
365 (2)	01	FL1	B0027	C01	10	00008	607.5	167.8
373 (2)	01	FL1	B0027	C01	10	00014	629.5	256.4
372 (2)	01	WS1	B0035	C01	10	00001	656.9	-182.3
372 (2)	01	WS1	B0035	C01	10	00002	656.9	-229.1
372 (2)	01	WS1	B0035	C01	10	00003	656.9	-41.7
372 (2)	01	WS1	B0035	C01	10	00004	656.9	-205.7
372 (2)	01	WS1	B0035	C01	10	00005	656.9	-205.7
372 (2)	01	WS1	B0035	C01	10	00006	656.9	5.2
372 (2)	01	WS1	B0035	C01	10	00007	656.9	-369.7
372 (2)	01	WS1	B0035	C01	10	00008	656.9	52.1
372 (2)	01	WS1	B0035	C01	10	00009	656.9	-346.3
372 (2)	01	WS1	B0035	C01	10	00010	656.9	-158.8
372 (2)	01	WS1	B0035	C01	10	00011	656.9	-322.9
366 (2)	01	WS1	B0035	C01	10	00012	653.4	35.7
366 (2)	01	WS1	B0035	C01	10	00013	653.4	35.7
366 (2)	01	WS1	B0035	C01	10	00014	653.4	-171.0
366 (2)	01	WS1	B0035	C01	10	00015	653.4	35.7
366 (2)	01	WS1	B0035	C01	10	00016	653.4	242.5
366 (2)	01	WS1	B0035	C01	10	00017	653.4	-102.1
366 (2)	01	WS1	B0035	C01	10	00018	653.4	219.5
366 (2)	01	WS1	B0035	C01	10	00019	653.4	-102.1
366 (2)	01	WS1	B0035	C01	10	00020	653.4	-102.1

NOTES: Activity reported in net dpm/100 cm<sup>2</sup>. Count times are reported in seconds.  
 Underlined values exceed the MDA.  
 Bold values exceed 2000 dpm/100 cm<sup>2</sup>.  
 46 results are listed.





## Maine Yankee Atomic Power Plant Site Characterization

## DOWNLOAD FILE & SURVEY INSTRUMENTATION CALIBRATION SUMMARY

03/22/98

Direct Measurements For Total Beta Activity

Survey Package : B1600 SURFACES & STRUCTURES  
 Training Annex Building - Elevation 1

SURVEY DATE	FILE #	M2350		DETECTOR			PRE EFF	TECHNICIAN
		INST S/N	CAL DUE	MODEL	S/N	CAL DUE		
1/12/98	365 (2)	129440	6/10/98	43-106	128926	6/5/98	.21	LAC4593
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
1/12/98	366 (2)	098639	4/16/98	43-106	133876	4/30/98	.21	JJP1813
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
1/13/98	372 (2)	098639	4/16/98	43-106	133876	4/30/98	.20	JJP1813
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
1/13/98	373 (2)	129440	6/10/98	43-106	128926	6/5/98	.21	LAC4593
CALIBRATION DATES VERIFIED AS ACCEPTABLE								



Maine Yankee Atomic Power Plant Site Characterization

03/22/98

Removable Contamination - Gross Beta Activity

Survey Package B1600 SURFACES & STRUCTURES  
 Training Annex Building - Elevation 1

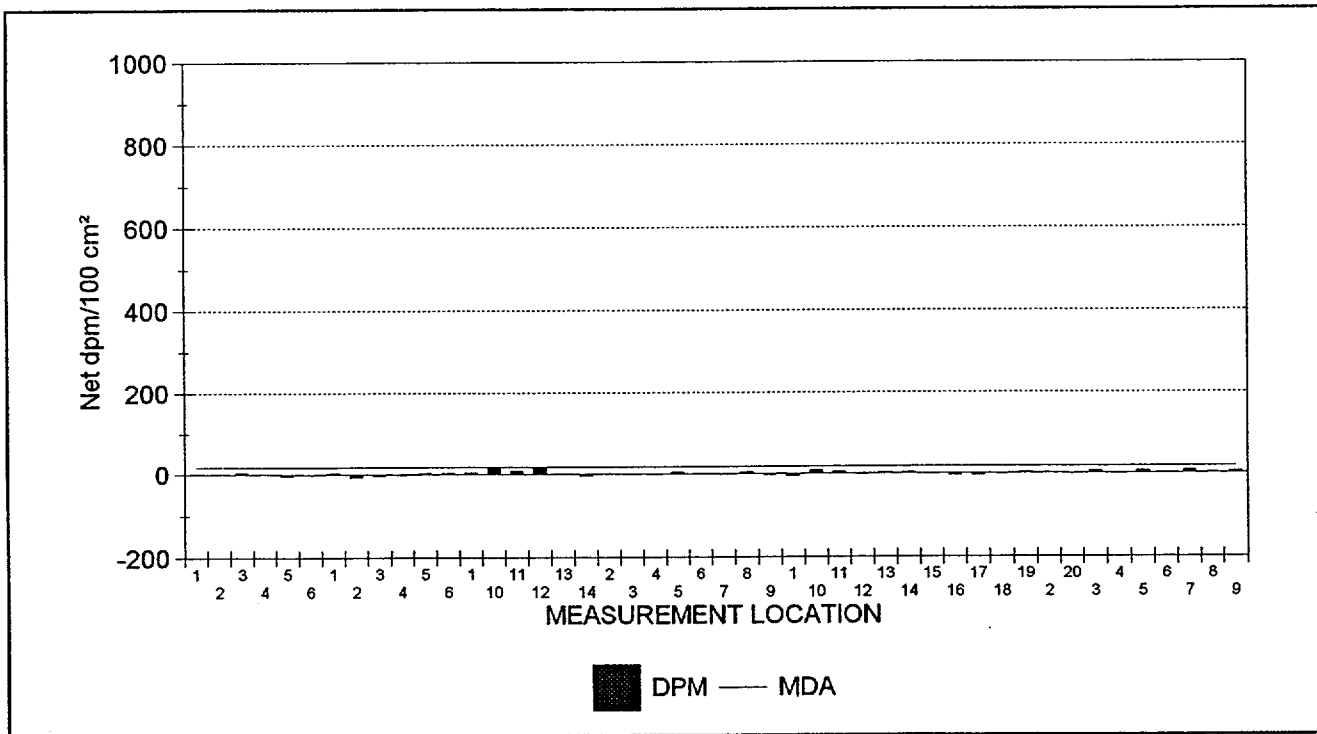
STATISTICAL SUMMARY

TESTS PERFORMED

	Net dpm/100 cm <sup>2</sup>
Mean	1.6
Maximum	17.7
Minimum	-7.5
Standard Deviation	4.8
MDA	17.8

Samples reported satisfy samples prescribed	YES
MDA <100 net dpm/100 cm <sup>2</sup>	YES
Results above 100 net dpm/100 cm <sup>2</sup>	0
Number of results above MDA	0

Samples Reported	46
Samples Prescribed	46



46 RESULTS ARE GRAPHED



Maine Yankee Atomic Power Plant Site Characterization

03/22/98

Removable Contamination - Gross Alpha Activity

Survey Package B1600 SURFACES & STRUCTURES  
 Training Annex Building - Elevation 1

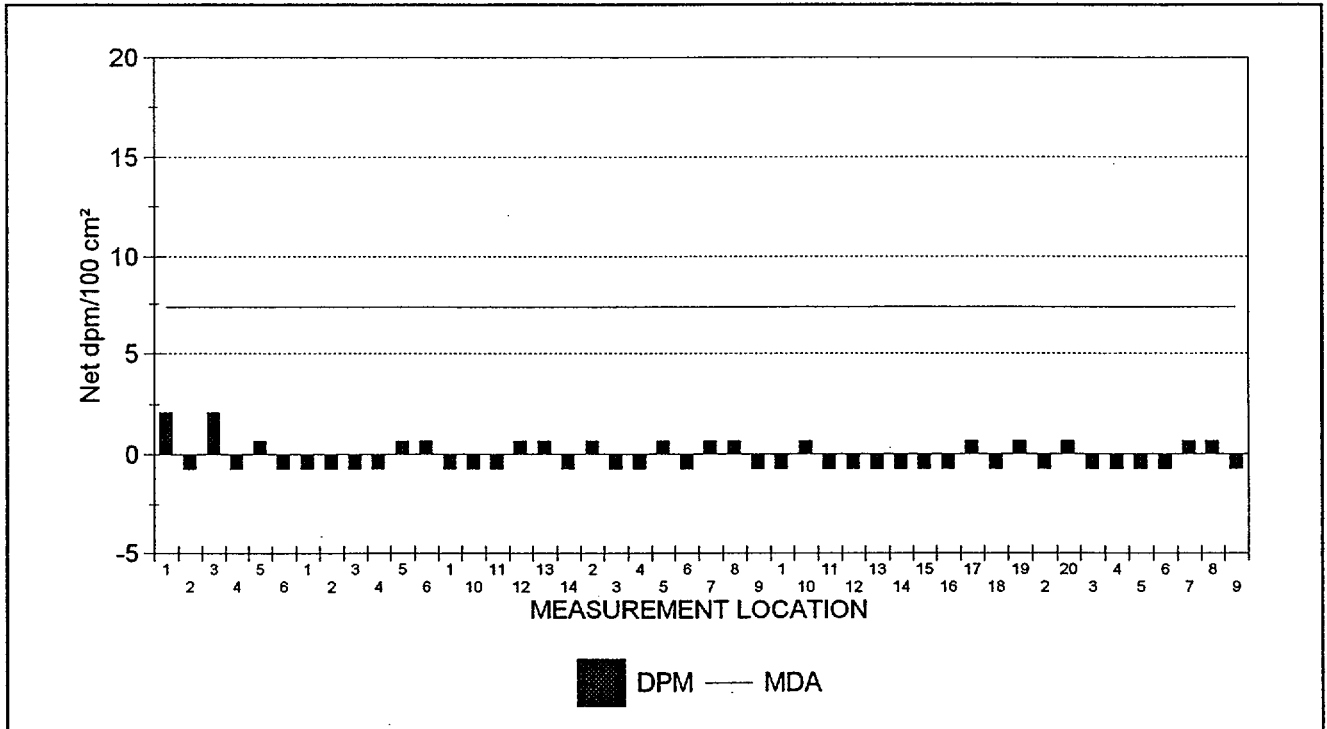
STATISTICAL SUMMARY

TESTS PERFORMED

	Net dpm/100 cm <sup>2</sup>
Mean	-0.2
Maximum	2.1
Minimum	-0.8
Standard Deviation	0.8
MDA	7.3

Samples reported satisfy samples prescribed	YES
MDA < 10 net dpm/100 cm <sup>2</sup>	YES
Results above 20 net dpm/100 cm <sup>2</sup>	0
Number of results above MDA	0

Samples Reported	46
Samples Prescribed	46



46 RESULTS ARE GRAPHED



## Maine Yankee Atomic Power Plant Site Characterization

03/22/98

## Removable Contamination

Survey Package : B1600 SURFACES & STRUCTURES  
 Training Annex Building - Elevation 1

## RESULTS LISTING - SORTED BY SURFACE CODE

XLS FILE	UNIT	SURFACE	REASON	COUNT	MSRMNT	ALPHA	BETA
				TIME	LOCATION		
SME1B044.XLS	01	WS1	C01	2	9	-0.8	4.3
SME1B044.XLS	01	WS1	C01	2	8	0.7	0.9
SME1B044.XLS	01	WS1	C01	2	7	0.7	7.6
SME1B044.XLS	01	WS1	C01	2	6	-0.8	0.9
SME1B044.XLS	01	WS1	C01	2	5	-0.8	5.9
SME1B044.XLS	01	WS1	C01	2	4	-0.8	-0.8
SME1B044.XLS	01	WS1	C01	2	3	-0.8	5.9
SME1B044.XLS	01	WS1	C01	2	20	0.7	-0.8
SME1B044.XLS	01	WS1	C01	2	2	-0.8	0.9
SME1B044.XLS	01	WS1	C01	2	19	0.7	2.6
SME1B044.XLS	01	WS1	C01	2	18	-0.8	-0.8
SME1B044.XLS	01	WS1	C01	2	17	0.7	-4.1
SME1B044.XLS	01	WS1	C01	2	16	-0.8	-4.1
SME1B044.XLS	01	WS1	C01	2	15	-0.8	-0.8
SME1B044.XLS	01	WS1	C01	2	14	-0.8	2.6
SME1B044.XLS	01	WS1	C01	2	13	-0.8	2.6
SME1B044.XLS	01	WS1	C01	2	12	-0.8	-0.8
SME1B044.XLS	01	WS1	C01	2	11	-0.8	4.3
SME1B044.XLS	01	WS1	C01	2	10	0.7	9.3
SME1B044.XLS	01	WS1	C01	2	1	-0.8	-5.8
SME1B044.XLS	01	FL1	C01	2	9	-0.8	-2.5
SME1B044.XLS	01	FL1	C01	2	8	0.7	4.3
SME1B044.XLS	01	FL1	C01	2	7	0.7	-0.8

REMAINING RESULTS PRINTED ON NEXT PAGE

NOTES: Activity reported in net dpm/100 cm<sup>2</sup>. Count times are reported in minutes.  
 Underlined values exceed the associated MDA.  
 Bold values exceed 100.00 dpm/100 cm<sup>2</sup> (beta activity) and/or 20.00 dpm/100 cm<sup>2</sup> (alpha activity).



## Maine Yankee Atomic Power Plant Site Characterization

03/22/98

## Removable Contamination

Survey Package : B1600 SURFACES & STRUCTURES  
 Training Annex Building - Elevation 1

## RESULTS LISTING - SORTED BY SURFACE CODE

XLS FILE	UNIT	SURFACE	REASON	COUNT	MSRMNT	ALPHA	BETA
				TIME	LOCATION		
SME1B044.XLS	01	FL1	C01	2	6	-0.8	0.9
SME1B044.XLS	01	FL1	C01	2	5	0.7	4.3
SME1B044.XLS	01	FL1	C01	2	4	-0.8	-0.8
SME1B044.XLS	01	FL1	C01	2	3	-0.8	-0.8
SME1B044.XLS	01	FL1	C01	2	2	0.7	0.9
SME1B044.XLS	01	FL1	C01	2	14	-0.8	-4.1
SME1B044.XLS	01	FL1	C01	2	13	0.7	0.9
SME1B044.XLS	01	FL1	C01	2	12	0.7	14.4
SME1B044.XLS	01	FL1	C01	2	11	-0.8	9.3
SME1B044.XLS	01	FL1	C01	2	10	-0.8	17.7
SME1B044.XLS	01	FL1	C01	2	1	-0.8	4.3
SME1B044.XLS	01	EQ1	C01	2	6	0.7	2.6
SME1B044.XLS	01	EQ1	C01	2	5	0.7	2.6
SME1B044.XLS	01	EQ1	C01	2	4	-0.8	-0.8
SME1B044.XLS	01	EQ1	C01	2	3	-0.8	-4.1
SME1B044.XLS	01	EQ1	C01	2	2	-0.8	-7.5
SME1B044.XLS	01	EQ1	C01	2	1	-0.8	2.6
SME1B044.XLS	01	CL1	C01	2	6	-0.8	-0.8
SME1B044.XLS	01	CL1	C01	2	5	0.7	-4.1
SME1B044.XLS	01	CL1	C01	2	4	-0.8	0.9
SME1B044.XLS	01	CL1	C01	2	3	2.1	4.3
SME1B044.XLS	01	CL1	C01	2	2	-0.8	0.9
SME1B044.XLS	01	CL1	C01	2	1	2.1	0.9

NOTES: Activity reported in net dpm/100 cm<sup>2</sup>. Count times are reported in minutes.  
 Underlined values exceed the associated MDA.  
 Bold values exceed 100.00 dpm/100 cm<sup>2</sup> (beta activity) and/or 20.00 dpm/100 cm<sup>2</sup> (alpha activity).  
 46 results are listed.



Maine Yankee Atomic Power Plant Site Characterization

DATAFILE & TENNELEC CALIBRATION SUMMARY

03/22/98

Removable Contamination

Survey Package : B1600 SURFACES & STRUCTURES  
Training Annex Building - Elevation 1

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SURVEYDATE	XLS FILE	INST ID	S/N	CAL DUE	LAB TECHNICIAN
2/11/98	SME1B044.XLS	1	14131	8/7/98	RWD

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CALIBRATION DATE VERIFIED AS ACCEPTABLE

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Maine Yankee Atomic Power Plant Site Characterization

03/22/98

Gamma Exposure Rate Measurements At 1 Meter

Survey Package B1600 SURFACES & STRUCTURES  
 Training Annex Building - Elevation 1

STATISTICAL SUMMARY

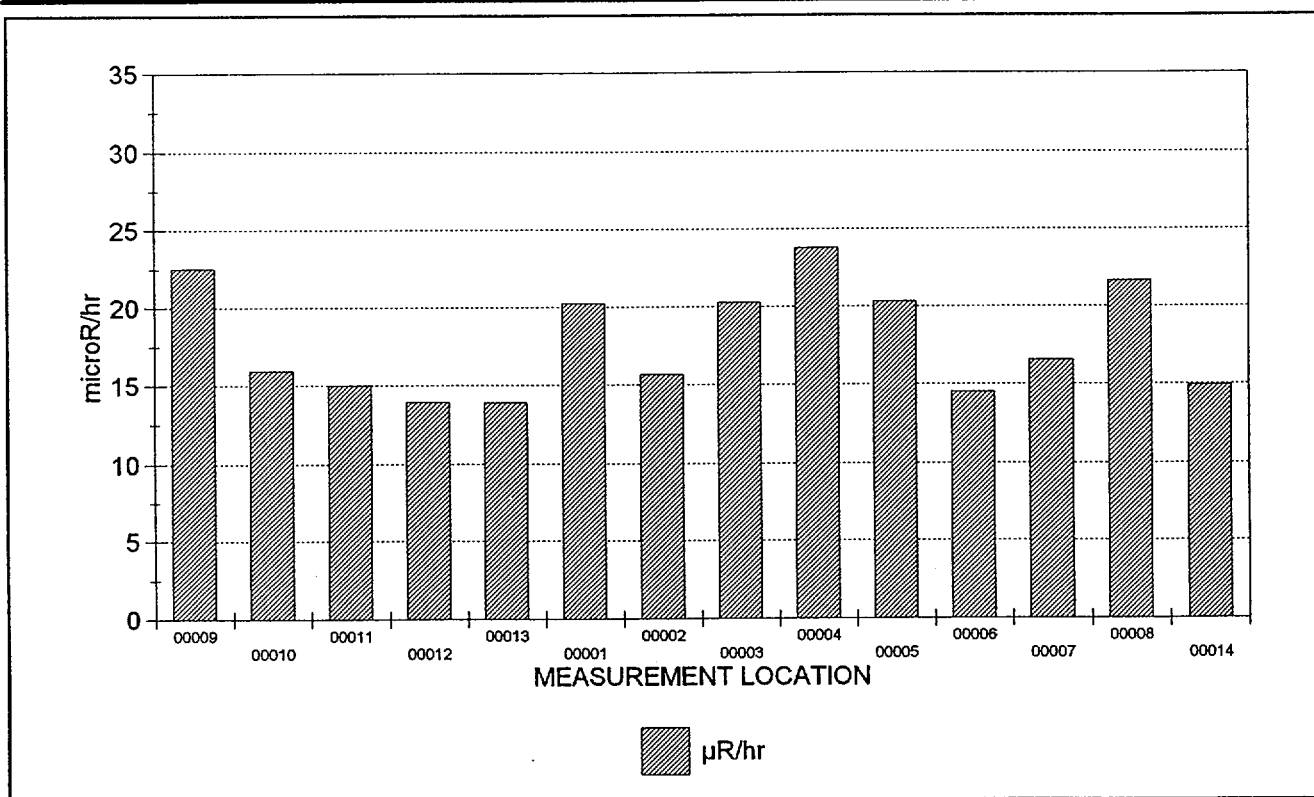
TESTS PERFORMED

	$\mu\text{R/hr}$
Mean	17.8
Maximum	23.8
Minimum	13.9
Standard Deviation	3.5

Samples reported satisfy samples prescribed YES

Samples Reported 14

Samples Prescribed 14



14 RESULTS ARE GRAPHED



## Maine Yankee Atomic Power Plant Site Characterization

03/22/98

## Gamma Exposure Rate Measurements At 1 Meter

Survey Package : B1600 SURFACES & STRUCTURES  
 Training Annex Building - Elevation 1

## RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	RESULT
380 (2)	01	FL1	B0001	C01	60.00	00009	<b>22.5</b>
380 (2)	01	FL1	B0001	C01	60.00	00010	<b>15.9</b>
380 (2)	01	FL1	B0001	C01	60.00	00011	15.0
380 (2)	01	FL1	B0001	C01	60.00	00012	13.9
380 (2)	01	FL1	B0001	C01	60.00	00013	13.9
380 (2)	01	FL1	B0027	C01	60.00	00001	<b>20.2</b>
380 (2)	01	FL1	B0027	C01	60.00	00002	<b>15.7</b>
380 (2)	01	FL1	B0027	C01	60.00	00003	<b>20.3</b>
380 (2)	01	FL1	B0027	C01	60.00	00004	<b>23.8</b>
380 (2)	01	FL1	B0027	C01	60.00	00005	<b>20.3</b>
380 (2)	01	FL1	B0027	C01	60.00	00006	14.5
380 (2)	01	FL1	B0027	C01	60.00	00007	<b>16.5</b>
380 (2)	01	FL1	B0027	C01	60.00	00008	<b>21.7</b>
380 (2)	01	FL1	B0027	C01	60.00	00014	14.9

NOTES: Exposure rates reported in net  $\mu\text{R/hr}$ . Count times are reported in seconds.  
 Underlined results did not meet the minimum required count time.  
 Bold values exceed 15  $\mu\text{R/hr}$ .  
 14 results are listed.





## Maine Yankee Atomic Power Plant Site Characterization

## DOWNLOAD FILE &amp; SURVEY INSTRUMENTATION CALIBRATION SUMMARY

03/22/98

Gamma Exposure Rate Measurements At 1 Meter

Survey Package: B1600 SURFACES & STRUCTURES  
Training Annex Building - Elevation 1

SURVEY DATE	FILE #	M2350		DETECTOR			TECHNICIAN
		INST S/N	CAL DUE	MODEL	S/N	CAL DUE	
1/13/98	380 (2)	129440	6/10/98	44-2	129779	6/11/98	LAC4593

CALIBRATION DATES VERIFIED AS ACCEPTABLE



## Maine Yankee Atomic Power Plant Site Characterization

04/01/98

**CHARACTERIZATION SUMMARY**

SURVEY PACKAGE NUMBER :B1700

SURFACES &amp; STRUCTURES

PACKAGE DESCRIPTION

Staff Building - All Elevations

SURVEY AREA DESCRIPTION

Staff Building

**GENERAL HISTORICAL INFORMATION (Operational history, etc.)**

The Staff Building was constructed in 1983 consisting of concrete floor, cement block walls, and steel frame. Office spaces were used for Reactor Engineering, Operations, Plant Engineering, Training, etc. RA was in Body Count room for check sources. Stairs were covered with shock absorbent material one year ago. Ceramic tile was in all bathrooms.

**SUMMARY OF CHARACTERIZATION ACTIVITIES**

Survey units were established for the areas as shown in the following Summary of Survey Units. Maps with the survey measurement locations for this package are included on the following pages.

Performed a scan of approximately five square meters at 288 survey measurement locations indicated on the survey map(s). This was approximately 10% of the accessible surface area.

Collected direct measurements for total beta activity at 288 survey measurement locations at the highest location identified in the scan. If an elevated location was not observed, the measurement was collected at an arbitrary location, selected by the technician, within the five square meter scanned area.

Collected smear samples to analyze for removable alpha and beta activity at the same 288 survey locations of direct measurements for total beta activity.

Collected one meter gamma exposure rate measurements at 138 survey locations for direct measurements for total beta activity on floor surfaces.

Collected 1 construction material sample for gamma spectral analysis.

The survey result statistical summaries, graphs and results listings are shown in the following individual reports including calibration summaries for the instruments used for each measurement type.

**CHARACTERIZATION SURVEY RESULTS**

- o There were 9 direct measurements for total beta activity above MDA (727 dpm/100cm<sup>2</sup>) and no results greater than 2000 dpm/100cm<sup>2</sup>. The maximum measurement result was 953 dpm/100cm<sup>2</sup>.
- o There were no measurements for removable beta activity above MDA (17.8 dpm/100cm<sup>2</sup>).
- o There were no measurements for removable alpha activity above MDA (7.3 dpm/100cm<sup>2</sup>).
- o The average and maximum one meter exposure rate measurement results were 14.2 µR/hr and 23.2 µR/hr respectively.
- o The sample gamma spectral analysis result indicated no plant-derived radionuclide activity above MDA.

**REFERENCES (Documents, Interviews)**



Maine Yankee Atomic Power Plant Site Characterization

SUMMARY OF SURVEY UNIT(S)

03/24/98

OUTPUT BATCH SN = 235

PACKAGE B1700 SURFACES & STRUCTURES  
Staff Building - All Elevations

UNIT(S)	SURFACE(S)
01 - Staff Building -First Floor	CL1 (Ceiling) FL1 (Floor) SW1 (Stairways) WS1 (Walls)
02 - Staff Building -Second Floor	CL1 (Ceiling) FL1 (Floor) WS1 (Walls)
03 - Staff Building -Third Floor	CL1 (Ceiling) FL1 (Floor) WS1 (Walls)
04 - Staff Building -Fourth Floor	CL1 (Ceiling) FL1 (Floor) WS1 (Walls)
05 - Spectral Analysis -Bathroom Tile	MC1 (Construction Materials)

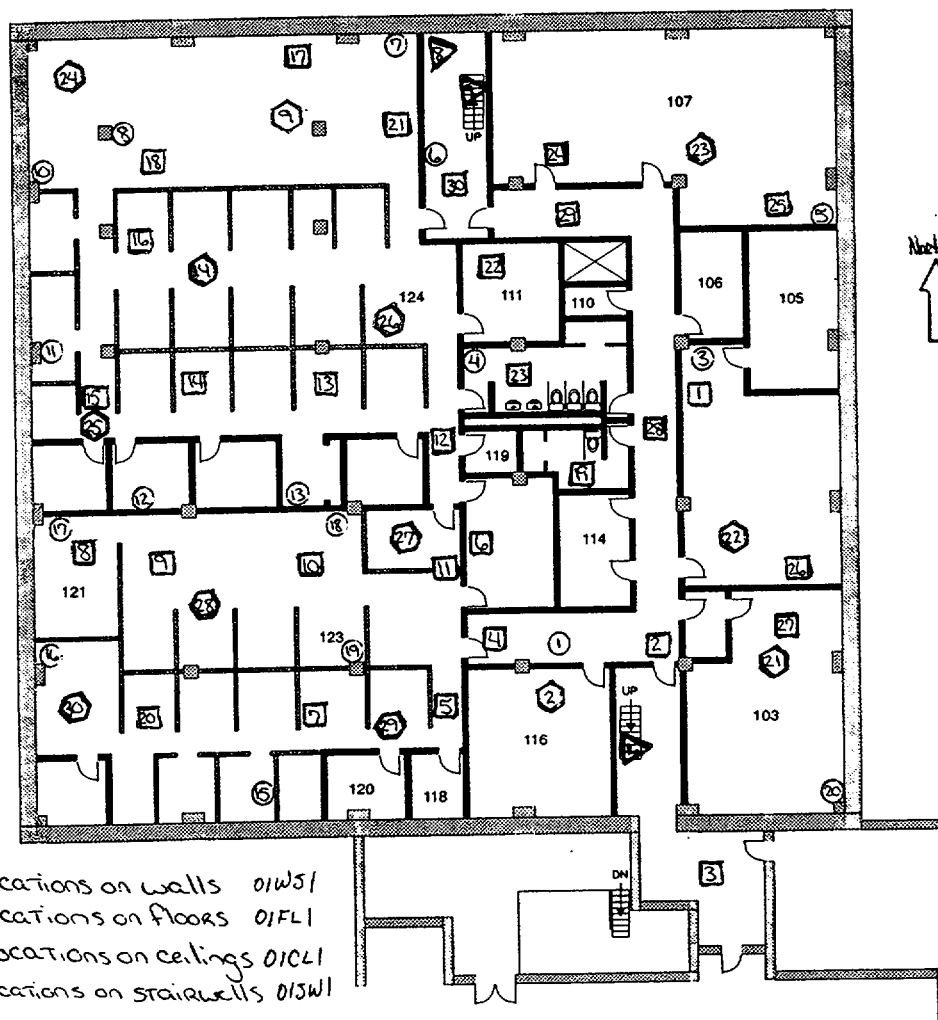
REASON(S) CHARACTERIZATION SURVEY (C01)

MATERIALS	MAT'L CODE	MATERIAL DESCRIPTION	BETA BKGD (dpm/100 cm <sup>2</sup> )
	B0001	CONCRETE - PAINTED (INTERIOR)	478.0
	B0003	CINDER BLOCK - PAINTED (INTERIOR)	478.0
	B0007	CERAMIC TILE - BARE (5X12)	1,109.0
	B0008	CERAMIC TILE - GLAZED (5X12)	1,109.0
	B0009	CERAMIC TILE - PAINTED (5X12)	1,109.0
	B0018	DUCT	0.0
	B0026	VINYL TILE (OVER CONCRETE)	0.0
	B0027	CARPET (OVER CONCRETE)	0.0
	B0033	CEILING TILE - FIBERBOARD	0.0
	B0035	DRYWALL - PAINTED	0.0
	B0036	METAL - PAINTED	0.0
	B0043	CERAMIC TILE - BARE (<5X12)	1,109.0
	B0044	CERAMIC TILE - GLAZED (<5X12)	1,109.0
	B0045	CERAMIC TILE - PAINTED (<5X12)	1,109.0
	B9999	OTHER	0.0

Maine Yankee Atomic Power Plant Site Characterization

SURVEY PACKAGE B1700

Staff Building 1st Floor (22 ft)



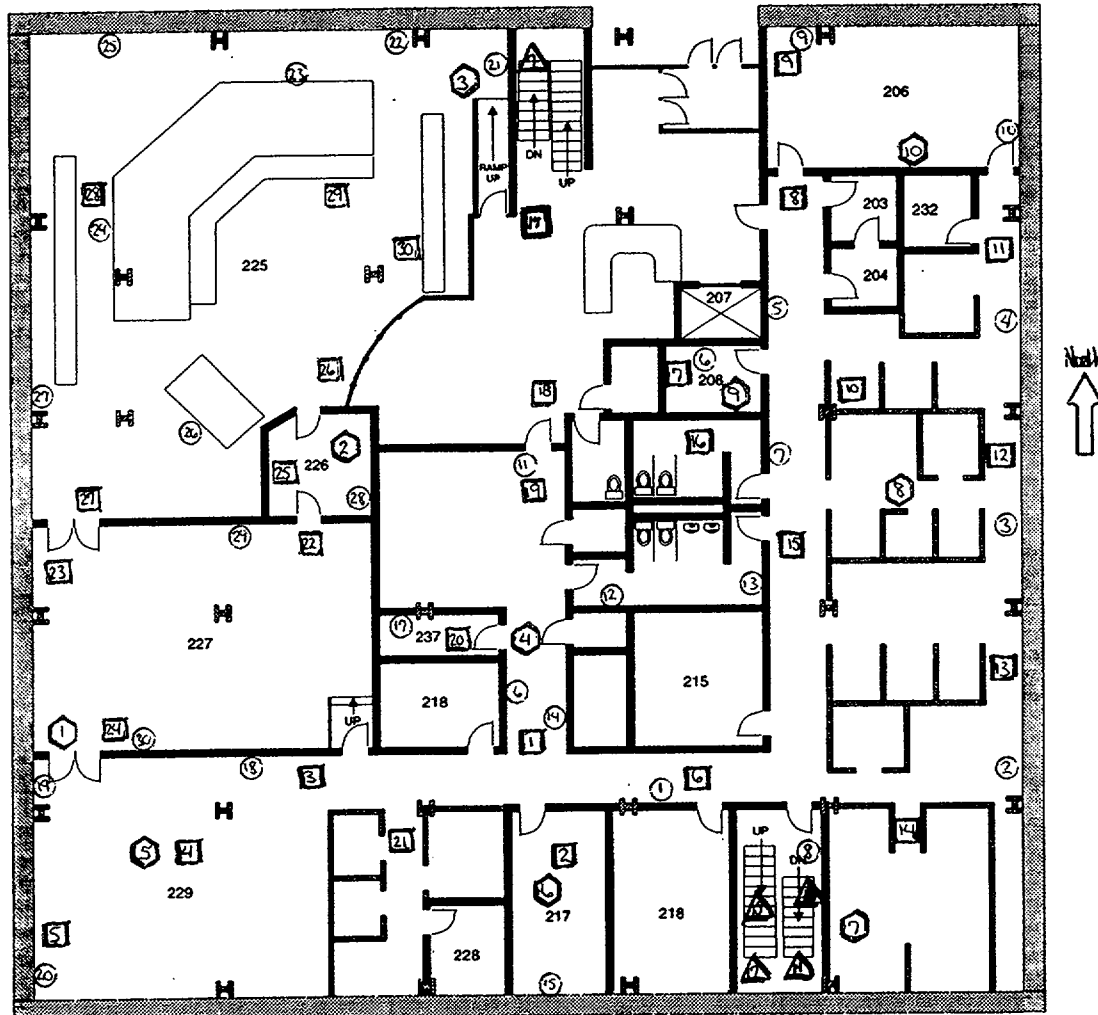
B17-

- ⊕ - survey locations on walls 01WS1
- ⊞ - survey locations on floors 01FL1
- ⊞ - survey locations on ceilings 01CL1
- △ - survey locations on stairwells 01SW1

Maine Yankee Atomic Power Plant Site Characterization

SURVEY PACKAGE B1700

Staff Building 2nd Floor (35 ft)



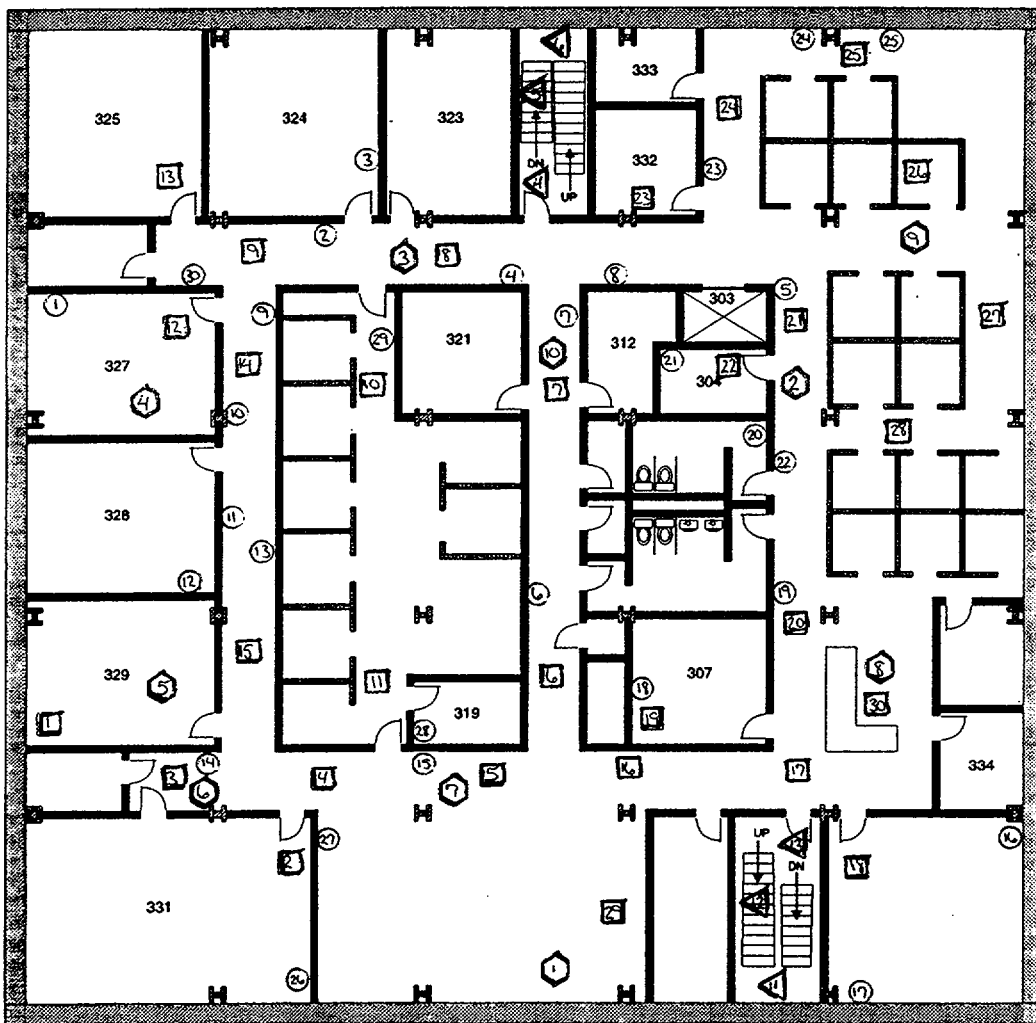
B17-

- ⊕ - Survey locations on walls O2WS1
- ⊞ - Survey locations on floors O2FL1
- ⊙ - Survey locations on ceilings O2C1
- ⚠ - Survey locations on stairwells O1SW1

Maine Yankee Atomic Power Plant Site Characterization

SURVEY PACKAGE B1700

Staff Building 3rd Floor (50 ft)



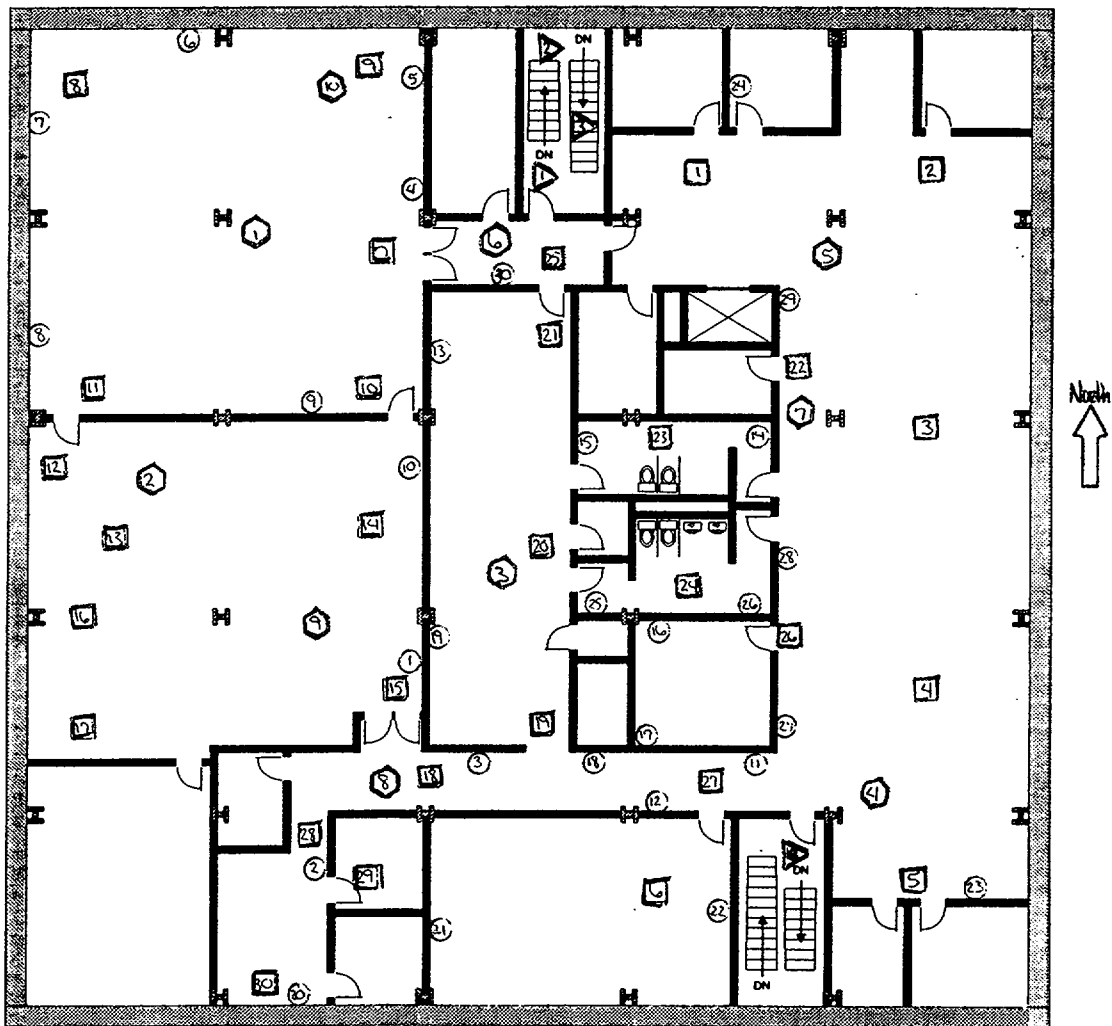
B17 -

- - Survey locations on walls 03WS1
- - Survey locations on floors 03FL1
- △ - Survey locations on ceilings 03CL1
- ▲ - Survey locations on stairwells 01SW1

Maine Yankee Atomic Power Plant Site Characterization

SURVEY PACKAGE B1700

Staff Building 4th Floor



B17.

- ⊙ - Survey locations on walls 04WS1
- ⊠ - Survey locations on floors 04FL1
- ★ - Survey locations on ceilings 04CL1
- ▲ - Survey locations on stairwells 01SW1



Maine Yankee Atomic Power Plant Site Characterization

03/24/98

Direct Measurements For Total Beta Activity

Survey Package B1700 SURFACES & STRUCTURES  
Staff Building - All Elevations

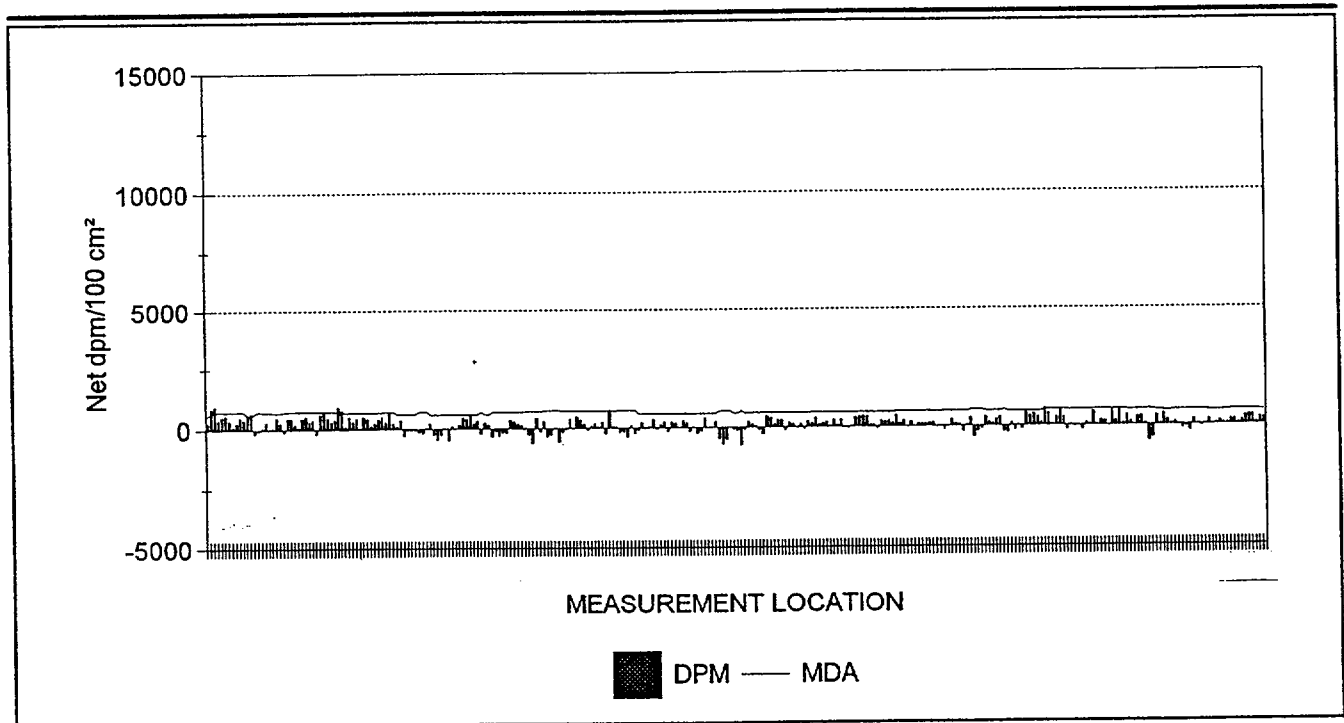
STATISTICAL SUMMARY

TESTS PERFORMED

	Net dpm/100 cm <sup>2</sup>
Mean	129.4
Maximum	952.9
Minimum	-729.9
Standard Deviation	279.5
MDA	727.2

Samples reported satisfy samples prescribed	YES
MDA <2000 net dpm/100 cm <sup>2</sup>	YES
Results above 2000 net dpm/100 cm <sup>2</sup>	0
Number of results above MDA	9

Samples Reported	288
Samples Prescribed	288



288 RESULTS ARE GRAPHED





## Maine Yankee Atomic Power Plant Site Characterization

03/24/98

## Direct Measurements For Total Beta Activity

Survey Package : B1700 SURFACES & STRUCTURES  
Staff Building - All Elevations

## RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	MDA	RESULT
77 (2)	01	CL1	B0018	C01	10	00002	571.3	269.7
36 (2)	01	CL1	B0018	C01	10	00021	716.9	<u>859.1</u>
36 (2)	01	CL1	B0018	C01	10	00022	716.9	<u>952.9</u>
36 (2)	01	CL1	B0018	C01	10	00023	716.9	389.8
36 (2)	01	CL1	B0018	C01	10	00024	716.9	530.6
36 (2)	01	CL1	B0018	C01	10	00025	716.9	577.5
36 (2)	01	CL1	B0018	C01	10	00026	716.9	366.3
36 (2)	01	CL1	B0018	C01	10	00027	716.9	108.2
36 (2)	01	CL1	B0018	C01	10	00028	716.9	249.0
36 (2)	01	CL1	B0018	C01	10	00029	716.9	483.6
36 (2)	01	CL1	B0018	C01	10	00030	716.9	389.8
77 (2)	01	CL1	B0033	C01	10	00009	571.3	<u>593.4</u>
77 (2)	01	CL1	B0033	C01	10	00014	571.3	<u>662.7</u>
95 (2)	01	FL1	B0007	C01	10	00023	679.8	-158.7
96 (2)	01	FL1	B0009	C01	10	00019	727.2	-49.8
76 (2)	01	FL1	B0026	C01	10	00002	714.7	42.1
76 (2)	01	FL1	B0026	C01	10	00003	714.7	287.5
76 (2)	01	FL1	B0026	C01	10	00004	714.7	19.8
95 (2)	01	FL1	B0026	C01	10	00028	679.8	40.2
95 (2)	01	FL1	B0026	C01	10	00029	679.8	460.2
95 (2)	01	FL1	B0026	C01	10	00030	679.8	250.2
76 (2)	01	FL1	B0027	C01	10	00001	714.7	-91.7
96 (2)	01	FL1	B0027	C01	10	00005	727.2	453.2
96 (2)	01	FL1	B0027	C01	10	00006	727.2	430.8
96 (2)	01	FL1	B0027	C01	10	00007	727.2	206.4
96 (2)	01	FL1	B0027	C01	10	00008	727.2	71.7
96 (2)	01	FL1	B0027	C01	10	00009	727.2	453.2
96 (2)	01	FL1	B0027	C01	10	00010	727.2	520.6
96 (2)	01	FL1	B0027	C01	10	00011	727.2	318.6
96 (2)	01	FL1	B0027	C01	10	00012	727.2	363.5
96 (2)	01	FL1	B0027	C01	10	00013	727.2	-175.2
96 (2)	01	FL1	B0027	C01	10	00014	727.2	610.3
96 (2)	01	FL1	B0027	C01	10	00015	727.2	700.1
96 (2)	01	FL1	B0027	C01	10	00016	727.2	475.7
96 (2)	01	FL1	B0027	C01	10	00017	727.2	318.6
96 (2)	01	FL1	B0027	C01	10	00018	727.2	385.9
95 (2)	01	FL1	B0027	C01	10	00020	679.8	<u>903.6</u>
95 (2)	01	FL1	B0027	C01	10	00021	679.8	<u>786.9</u>
95 (2)	01	FL1	B0027	C01	10	00022	679.8	110.2
95 (2)	01	FL1	B0027	C01	10	00024	679.8	506.9

NOTES: Activity reported in net dpm/100 cm<sup>2</sup>. Count times are reported in seconds.  
Underlined values exceed the MDA.  
Bold values exceed 2000 dpm/100 cm<sup>2</sup>.



## Maine Yankee Atomic Power Plant Site Characterization

03/24/98

## Direct Measurements For Total Beta Activity

Survey Package : B1700 SURFACES & STRUCTURES  
Staff Building - All Elevations

## RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	MDA	RESULT
95 (2)	01	FL1	B0027	C01	10	00025	679.8	320.2
95 (2)	01	FL1	B0027	C01	10	00026	679.8	436.9
95 (2)	01	FL1	B0027	C01	10	00027	679.8	40.2
201 (2)	01	SW1	B0026	C01	10	00001	671.7	483.7
201 (2)	01	SW1	B0026	C01	10	00002	671.7	417.5
201 (2)	01	SW1	B0026	C01	10	00003	671.7	131.0
201 (2)	01	SW1	B0026	C01	10	00004	671.7	241.2
201 (2)	01	SW1	B0026	C01	10	00005	671.7	395.5
201 (2)	01	SW1	B0026	C01	10	00006	671.7	505.7
203 (2)	01	SW1	B0026	C01	10	00007	698.0	280.3
203 (2)	01	SW1	B0026	C01	10	00008	698.0	648.3
203 (2)	01	SW1	B0026	C01	10	00009	698.0	237.0
202 (2)	01	SW1	B0026	C01	10	00010	601.4	105.9
202 (2)	01	SW1	B0026	C01	10	00011	601.4	338.5
202 (2)	01	SW1	B0026	C01	10	00012	601.4	-289.4
202 (2)	01	SW1	B0026	C01	10	00013	601.4	-56.8
202 (2)	01	SW1	B0026	C01	10	00014	601.4	-56.8
202 (2)	01	SW1	B0026	C01	10	00015	601.4	-56.8
203 (2)	01	SW1	B0026	C01	10	00016	698.0	-131.1
203 (2)	01	SW1	B0026	C01	10	00017	698.0	-174.4
203 (2)	01	SW1	B0026	C01	10	00018	698.0	20.4
77 (2)	01	WS1	B0001	C01	10	00006	571.3	207.9
77 (2)	01	WS1	B0001	C01	10	00008	571.3	-231.4
77 (2)	01	WS1	B0001	C01	10	00012	571.3	-439.5
77 (2)	01	WS1	B0001	C01	10	00013	571.3	-254.5
77 (2)	01	WS1	B0001	C01	10	00017	571.3	-23.3
77 (2)	01	WS1	B0001	C01	10	00018	571.3	-462.6
77 (2)	01	WS1	B0001	C01	10	00019	571.3	92.3
77 (2)	01	WS1	B0003	C01	10	00001	571.3	-0.2
77 (2)	01	WS1	B0035	C01	10	00003	571.3	154.1
77 (2)	01	WS1	B0035	C01	10	00005	571.3	431.6
77 (2)	01	WS1	B0035	C01	10	00007	571.3	385.3
77 (2)	01	WS1	B0035	C01	10	00010	571.3	<u>593.4</u>
77 (2)	01	WS1	B0035	C01	10	00011	571.3	200.4
77 (2)	01	WS1	B0035	C01	10	00015	571.3	316.0
95 (2)	01	WS1	B0035	C01	10	00016	679.8	-216.5
77 (2)	01	WS1	B0035	C01	10	00020	571.3	223.5
77 (2)	01	WS1	B0044	C01	10	00004	571.3	154.8
95 (2)	02	CL1	B0018	C01	10	00004	679.8	-333.2
95 (2)	02	CL1	B0018	C01	10	00005	679.8	-123.2

NOTES: Activity reported in net dpm/100 cm<sup>2</sup>. Count times are reported in seconds.  
Underlined values exceed the MDA.  
Bold values exceed 2000 dpm/100 cm<sup>2</sup>.



## Maine Yankee Atomic Power Plant Site Characterization

03/24/98

## Direct Measurements For Total Beta Activity

Survey Package : B1700 SURFACES & STRUCTURES  
Staff Building - All Elevations

## RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	MDA	RESULT
95 (2)	02	CL1	B0018	C01	10	00006	679.8	-309.8
95 (2)	02	CL1	B0018	C01	10	00007	679.8	-169.8
95 (2)	02	CL1	B0018	C01	10	00008	679.8	-193.2
95 (2)	02	CL1	B0033	C01	10	00001	679.8	343.5
95 (2)	02	CL1	B0033	C01	10	00002	679.8	296.9
95 (2)	02	CL1	B0033	C01	10	00003	679.8	180.2
95 (2)	02	CL1	B0033	C01	10	00009	679.8	133.5
95 (2)	02	CL1	B0033	C01	10	00010	679.8	-29.8
76 (2)	02	FL1	B0008	C01	10	00017	714.7	-263.7
76 (2)	02	FL1	B0008	C01	10	00018	714.7	-598.4
76 (2)	02	FL1	B0009	C01	10	00016	714.7	427.8
76 (2)	02	FL1	B0026	C01	10	00002	714.7	-136.3
76 (2)	02	FL1	B0026	C01	10	00020	714.7	287.5
96 (2)	02	FL1	B0026	C01	10	00022	727.2	-332.3
96 (2)	02	FL1	B0026	C01	10	00023	727.2	-287.4
96 (2)	02	FL1	B0026	C01	10	00024	727.2	4.4
96 (2)	02	FL1	B0026	C01	10	00025	727.2	-534.3
76 (2)	02	FL1	B0027	C01	10	00001	714.7	-181.0
76 (2)	02	FL1	B0027	C01	10	00003	714.7	-47.1
76 (2)	02	FL1	B0027	C01	10	00004	714.7	354.5
76 (2)	02	FL1	B0027	C01	10	00005	714.7	-24.8
76 (2)	02	FL1	B0027	C01	10	00006	714.7	466.0
76 (2)	02	FL1	B0027	C01	10	00007	714.7	332.2
76 (2)	02	FL1	B0027	C01	10	00008	714.7	176.0
76 (2)	02	FL1	B0027	C01	10	00009	714.7	-69.4
76 (2)	02	FL1	B0027	C01	10	00010	714.7	86.8
76 (2)	02	FL1	B0027	C01	10	00011	714.7	176.0
76 (2)	02	FL1	B0027	C01	10	00012	714.7	64.4
76 (2)	02	FL1	B0027	C01	10	00013	714.7	242.9
76 (2)	02	FL1	B0027	C01	10	00014	714.7	-225.6
76 (2)	02	FL1	B0027	C01	10	00015	714.7	<u>733.7</u>
76 (2)	02	FL1	B0027	C01	10	00019	714.7	86.8
76 (2)	02	FL1	B0027	C01	10	00021	714.7	64.4
96 (2)	02	FL1	B0027	C01	10	00026	727.2	-175.2
96 (2)	02	FL1	B0027	C01	10	00027	727.2	-152.7
96 (2)	02	FL1	B0027	C01	10	00028	727.2	-377.2
96 (2)	02	FL1	B0027	C01	10	00029	727.2	116.6
96 (2)	02	FL1	B0027	C01	10	00030	727.2	-242.5
77 (2)	02	WS1	B0003	C01	10	00005	571.3	-92.7
77 (2)	02	WS1	B0003	C01	10	00006	571.3	207.9

NOTES: Activity reported in net dpm/100 cm<sup>2</sup>. Count times are reported in seconds.  
Underlined values exceed the MDA.  
Bold values exceed 2000 dpm/100 cm<sup>2</sup>.



## Maine Yankee Atomic Power Plant Site Characterization

03/24/98

## Direct Measurements For Total Beta Activity

Survey Package : B1700 SURFACES & STRUCTURES  
Staff Building - All Elevations

## RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	MDA	RESULT
77 (2)	02	WS1	B0003	C01	10	00007	571.3	-23.3
77 (2)	02	WS1	B0003	C01	10	00008	571.3	46.0
77 (2)	02	WS1	B0003	C01	10	00013	571.3	346.6
77 (2)	02	WS1	B0003	C01	10	00014	571.3	-46.4
77 (2)	02	WS1	B0003	C01	10	00021	571.3	138.5
77 (2)	02	WS1	B0035	C01	10	00001	571.3	223.5
77 (2)	02	WS1	B0035	C01	10	00002	571.3	-146.4
77 (2)	02	WS1	B0035	C01	10	00003	571.3	223.5
77 (2)	02	WS1	B0035	C01	10	00004	571.3	177.2
77 (2)	02	WS1	B0035	C01	10	00009	571.3	-7.7
77 (2)	02	WS1	B0035	C01	10	00010	571.3	292.8
77 (2)	02	WS1	B0035	C01	10	00011	571.3	200.4
77 (2)	02	WS1	B0035	C01	10	00015	571.3	-146.4
77 (2)	02	WS1	B0035	C01	10	00016	571.3	15.4
77 (2)	02	WS1	B0035	C01	10	00017	571.3	-238.9
77 (2)	02	WS1	B0035	C01	10	00018	571.3	-146.4
77 (2)	02	WS1	B0035	C01	10	00019	571.3	385.3
77 (2)	02	WS1	B0035	C01	10	00020	571.3	-7.7
77 (2)	02	WS1	B0035	C01	10	00022	571.3	38.5
77 (2)	02	WS1	B0035	C01	10	00025	571.3	246.6
95 (2)	02	WS1	B0035	C01	10	00027	679.8	-473.2
95 (2)	02	WS1	B0035	C01	10	00028	679.8	-683.2
95 (2)	02	WS1	B0035	C01	10	00029	679.8	-496.5
95 (2)	02	WS1	B0035	C01	10	00030	679.8	-6.5
77 (2)	02	WS1	B0036	C01	10	00023	571.3	-77.1
77 (2)	02	WS1	B0036	C01	10	00024	571.3	-123.3
95 (2)	02	WS1	B0036	C01	10	00026	679.8	-729.9
77 (2)	02	WS1	B0044	C01	10	00012	571.3	-99.5
200 (2)	03	CL1	B0018	C01	10	00001	605.6	239.6
200 (2)	03	CL1	B0018	C01	10	00002	605.6	124.0
200 (2)	03	CL1	B0018	C01	10	00003	605.6	54.6
200 (2)	03	CL1	B0018	C01	10	00004	605.6	-107.3
200 (2)	03	CL1	B0018	C01	10	00005	605.6	-292.3
200 (2)	03	CL1	B0033	C01	10	00006	605.6	447.8
200 (2)	03	CL1	B0033	C01	10	00007	605.6	401.5
200 (2)	03	CL1	B0033	C01	10	00008	605.6	124.0
200 (2)	03	CL1	B0033	C01	10	00009	605.6	285.9
200 (2)	03	CL1	B0033	C01	10	00010	605.6	285.9
147 (2)	03	FL1	B0026	C01	10	00001	589.9	-137.8
147 (2)	03	FL1	B0026	C01	10	00002	589.9	170.8

NOTES: Activity reported in net dpm/100 cm<sup>2</sup>. Count times are reported in seconds.  
Underlined values exceed the MDA.  
Bold values exceed 2000 dpm/100 cm<sup>2</sup>.



## Maine Yankee Atomic Power Plant Site Characterization

03/24/98

## Direct Measurements For Total Beta Activity

Survey Package : B1700 SURFACES & STRUCTURES  
Staff Building - All Elevations

## RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	MDA	RESULT
147 (2)	03	FL1	B0026	C01	10	00012	589.9	123.3
147 (2)	03	FL1	B0026	C01	10	00013	589.9	-19.1
147 (2)	03	FL1	B0026	C01	10	00018	589.9	123.3
147 (2)	03	FL1	B0026	C01	10	00019	589.9	-90.3
147 (2)	03	FL1	B0026	C01	10	00022	589.9	242.0
200 (2)	03	FL1	B0026	C01	10	00029	605.6	147.1
147 (2)	03	FL1	B0027	C01	10	00003	589.9	360.7
147 (2)	03	FL1	B0027	C01	10	00004	589.9	99.6
147 (2)	03	FL1	B0027	C01	10	00005	589.9	147.1
147 (2)	03	FL1	B0027	C01	10	00006	589.9	218.3
147 (2)	03	FL1	B0027	C01	10	00007	589.9	52.1
147 (2)	03	FL1	B0027	C01	10	00008	589.9	289.5
147 (2)	03	FL1	B0027	C01	10	00009	589.9	75.8
147 (2)	03	FL1	B0027	C01	10	00010	589.9	289.5
147 (2)	03	FL1	B0027	C01	10	00011	589.9	-19.1
147 (2)	03	FL1	B0027	C01	10	00014	589.9	-42.9
147 (2)	03	FL1	B0027	C01	10	00015	589.9	28.4
147 (2)	03	FL1	B0027	C01	10	00016	589.9	384.5
147 (2)	03	FL1	B0027	C01	10	00017	589.9	408.2
147 (2)	03	FL1	B0027	C01	10	00020	589.9	431.9
147 (2)	03	FL1	B0027	C01	10	00021	589.9	408.2
147 (2)	03	FL1	B0027	C01	10	00023	589.9	75.8
147 (2)	03	FL1	B0027	C01	10	00024	589.9	75.8
147 (2)	03	FL1	B0027	C01	10	00025	589.9	-90.3
147 (2)	03	FL1	B0027	C01	10	00026	589.9	242.0
147 (2)	03	FL1	B0027	C01	10	00027	589.9	218.3
147 (2)	03	FL1	B0027	C01	10	00028	589.9	242.0
200 (2)	03	FL1	B0027	C01	10	00030	605.6	147.1
145 (2)	03	WS1	B0003	C01	10	00005	624.0	451.0
145 (2)	03	WS1	B0003	C01	10	00018	624.0	127.7
145 (2)	03	WS1	B0003	C01	10	00019	624.0	243.1
145 (2)	03	WS1	B0003	C01	10	00021	624.0	12.2
145 (2)	03	WS1	B0003	C01	10	00022	624.0	173.8
145 (2)	03	WS1	B0035	C01	10	00001	624.0	5.1
145 (2)	03	WS1	B0035	C01	10	00002	624.0	97.5
145 (2)	03	WS1	B0035	C01	10	00003	624.0	97.5
145 (2)	03	WS1	B0035	C01	10	00004	624.0	97.5
145 (2)	03	WS1	B0035	C01	10	00007	624.0	120.6
145 (2)	03	WS1	B0035	C01	10	00008	624.0	166.8
145 (2)	03	WS1	B0035	C01	10	00010	624.0	-18.0

NOTES: Activity reported in net dpm/100 cm<sup>2</sup>. Count times are reported in seconds.  
Underlined values exceed the MDA.  
Bold values exceed 2000 dpm/100 cm<sup>2</sup>.



## Maine Yankee Atomic Power Plant Site Characterization

03/24/98

## Direct Measurements For Total Beta Activity

Survey Package : B1700 SURFACES & STRUCTURES  
Staff Building - All Elevations

## RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	MDA	RESULT
145 (2)	03	WS1	B0035	C01	10	00011	624.0	28.2
145 (2)	03	WS1	B0035	C01	10	00012	624.0	-133.4
145 (2)	03	WS1	B0035	C01	10	00014	624.0	5.1
145 (2)	03	WS1	B0035	C01	10	00016	624.0	259.2
145 (2)	03	WS1	B0035	C01	10	00017	624.0	97.5
145 (2)	03	WS1	B0035	C01	10	00023	624.0	74.4
145 (2)	03	WS1	B0035	C01	10	00024	624.0	-225.8
145 (2)	03	WS1	B0035	C01	10	00025	624.0	51.3
201 (2)	03	WS1	B0035	C01	10	00026	671.7	351.4
201 (2)	03	WS1	B0035	C01	10	00027	671.7	-442.0
201 (2)	03	WS1	B0035	C01	10	00029	671.7	-243.7
201 (2)	03	WS1	B0035	C01	10	00030	671.7	-133.5
145 (2)	03	WS1	B0045	C01	10	00020	624.0	374.3
145 (2)	03	WS1	B9999	C01	10	00006	624.0	143.7
145 (2)	03	WS1	B9999	C01	10	00009	624.0	97.5
145 (2)	03	WS1	B9999	C01	10	00013	624.0	259.2
145 (2)	03	WS1	B9999	C01	10	00015	624.0	374.7
201 (2)	03	WS1	B9999	C01	10	00028	671.7	-221.6
62 (2)	04	CL1	B0018	C01	10	00001	607.7	-274.1
62 (2)	04	CL1	B0018	C01	10	00002	607.7	105.4
62 (2)	04	CL1	B0018	C01	10	00003	607.7	-179.2
62 (2)	04	CL1	B0018	C01	10	00004	607.7	34.3
62 (2)	04	CL1	B0018	C01	10	00005	607.7	-131.8
62 (2)	04	CL1	B0033	C01	10	00006	607.7	532.4
62 (2)	04	CL1	B0033	C01	10	00007	607.7	413.8
62 (2)	04	CL1	B0033	C01	10	00008	607.7	485.0
62 (2)	04	CL1	B0033	C01	10	00009	607.7	366.4
62 (2)	04	CL1	B0033	C01	10	00010	607.7	129.2
35 (2)	04	FL1	B0001	C01	10	00006	670.4	<u>696.9</u>
35 (2)	04	FL1	B0027	C01	10	00001	670.4	494.9
35 (2)	04	FL1	B0027	C01	10	00002	670.4	64.2
35 (2)	04	FL1	B0027	C01	10	00003	670.4	336.2
35 (2)	04	FL1	B0027	C01	10	00004	670.4	630.9
35 (2)	04	FL1	B0027	C01	10	00005	670.4	336.2
55 (2)	04	FL1	B0027	C01	10	00007	649.0	-193.2
55 (2)	04	FL1	B0027	C01	10	00008	649.0	37.1
55 (2)	04	FL1	B0027	C01	10	00009	649.0	-55.0
55 (2)	04	FL1	B0027	C01	10	00010	649.0	-32.0
55 (2)	04	FL1	B0027	C01	10	00011	649.0	-193.2
55 (2)	04	FL1	B0027	C01	10	00012	649.0	106.2

NOTES: Activity reported in net dpm/100 cm<sup>2</sup>. Count times are reported in seconds.  
Underlined values exceed the MDA.  
Bold values exceed 2000 dpm/100 cm<sup>2</sup>.



## Maine Yankee Atomic Power Plant Site Characterization

03/24/98

## Direct Measurements For Total Beta Activity

Survey Package : B1700 SURFACES & STRUCTURES  
 Staff Building - All Elevations

## RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	MDA	RESULT
55 (2)	04	FL1	B0027	C01	10	00013	649.0	60.1
56 (2)	04	FL1	B0027	C01	10	00014	684.0	581.9
56 (2)	04	FL1	B0027	C01	10	00015	684.0	19.2
56 (2)	04	FL1	B0027	C01	10	00016	684.0	214.0
56 (2)	04	FL1	B0027	C01	10	00017	684.0	170.7
56 (2)	04	FL1	B0027	C01	10	00018	684.0	-24.0
56 (2)	04	FL1	B0027	C01	10	00019	684.0	646.9
56 (2)	04	FL1	B0027	C01	10	00020	684.0	192.4
56 (2)	04	FL1	B0027	C01	10	00021	684.0	603.6
56 (2)	04	FL1	B0027	C01	10	00022	684.0	84.2
55 (2)	04	FL1	B0027	C01	10	00025	649.0	428.6
55 (2)	04	FL1	B0027	C01	10	00026	649.0	152.2
55 (2)	04	FL1	B0027	C01	10	00027	649.0	37.1
55 (2)	04	FL1	B0027	C01	10	00028	649.0	336.4
55 (2)	04	FL1	B0027	C01	10	00029	649.0	359.5
55 (2)	04	FL1	B0027	C01	10	00030	649.0	83.2
56 (2)	04	FL1	B0043	C01	10	00023	684.0	-656.9
55 (2)	04	FL1	B0043	C01	10	00024	649.0	-519.3
66 (2)	04	WS1	B0001	C01	10	00014	627.9	403.4
66 (2)	04	WS1	B0001	C01	10	00018	627.9	49.4
62 (2)	04	WS1	B0003	C01	10	00022	607.7	457.7
62 (2)	04	WS1	B0003	C01	10	00026	607.7	196.8
62 (2)	04	WS1	B0003	C01	10	00029	607.7	54.4
66 (2)	04	WS1	B0009	C01	10	00015	627.9	104.3

## REMAINING RESULTS PRINTED ON NEXT PAGE

NOTES: Activity reported in net dpm/100 cm<sup>2</sup>. Count times are reported in seconds.  
 Underlined values exceed the MDA.  
 Bold values exceed 2000 dpm/100 cm<sup>2</sup>.



## Maine Yankee Atomic Power Plant Site Characterization

03/24/98

## Direct Measurements For Total Beta Activity

Survey Package : B1700 SURFACES & STRUCTURES  
Staff Building - All Elevations

## RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	MDA	RESULT
66 (2)	04	WS1	B0035	C01	10	00003	627.9	-3.7
66 (2)	04	WS1	B0035	C01	10	00005	627.9	-158.6
66 (2)	04	WS1	B0035	C01	10	00006	627.9	-70.1
66 (2)	04	WS1	B0035	C01	10	00007	627.9	-269.2
66 (2)	04	WS1	B0035	C01	10	00010	627.9	195.5
66 (2)	04	WS1	B0035	C01	10	00011	627.9	18.4
66 (2)	04	WS1	B0035	C01	10	00016	627.9	-47.9
66 (2)	04	WS1	B0035	C01	10	00017	627.9	18.4
62 (2)	04	WS1	B0035	C01	10	00020	607.7	200.3
62 (2)	04	WS1	B0035	C01	10	00021	607.7	34.3
62 (2)	04	WS1	B0035	C01	10	00024	607.7	58.0
62 (2)	04	WS1	B0035	C01	10	00027	607.7	152.9
62 (2)	04	WS1	B0035	C01	10	00030	607.7	58.0
62 (2)	04	WS1	B0044	C01	10	00025	607.7	63.9
66 (2)	04	WS1	B9999	C01	10	00001	627.9	217.6
66 (2)	04	WS1	B9999	C01	10	00002	627.9	217.6
66 (2)	04	WS1	B9999	C01	10	00004	627.9	62.7
66 (2)	04	WS1	B9999	C01	10	00008	627.9	151.2
66 (2)	04	WS1	B9999	C01	10	00009	627.9	328.2
66 (2)	04	WS1	B9999	C01	10	00012	627.9	394.6
66 (2)	04	WS1	B9999	C01	10	00013	627.9	394.6
66 (2)	04	WS1	B9999	C01	10	00019	627.9	84.8
62 (2)	04	WS1	B9999	C01	10	00023	607.7	295.2
62 (2)	04	WS1	B9999	C01	10	00028	607.7	247.8

NOTES: Activity reported in net dpm/100 cm<sup>2</sup>. Count times are reported in seconds.  
Underlined values exceed the MDA.  
Bold values exceed 2000 dpm/100 cm<sup>2</sup>.  
288 results are listed.





## Maine Yankee Atomic Power Plant Site Characterization

## DOWNLOAD FILE & SURVEY INSTRUMENTATION CALIBRATION SUMMARY

03/24/98

## Direct Measurements For Total Beta Activity

Survey Package: B1700 SURFACES & STRUCTURES  
Staff Building - All Elevations

SURVEY DATE	FILE #	M2350		DETECTOR			PRE EFF	TECHNICIAN
		INST S/N	CAL DUE	MODEL	S/N	CAL DUE		
11/18/97	35 (2)	126196	4/15/98	43-106	126897	4/18/98	.21	DJH2236
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
11/18/97	36 (2)	80498	4/8/98	43-68	PR075149	4/8/98	.20	CWI5440
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
12/1/97	55 (2)	98620	3/20/98	43-106	128919	3/20/98	.21	DRK2986
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
12/1/97	56 (2)	126201	4/15/98	43-106	133858	5/3/98	.22	BSM0490
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
12/2/97	62 (2)	98620	3/20/98	43-106	128919	3/20/98	.20	DRK2986
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
12/2/97	66 (2)	126201	4/15/98	43-106	133858	5/3/98	.22	BSM0490
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
12/3/97	76 (2)	126201	4/15/98	43-106	133858	5/3/98	.21	BSM0490
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
12/3/97	77 (2)	98620	3/20/98	43-106	128919	3/20/98	.21	DRK2986
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
12/4/97	95 (2)	98620	3/20/98	43-106	128919	3/20/98	.20	DRK2986
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
12/4/97	96 (2)	126201	4/15/98	43-106	133858	5/3/98	.21	BSM0490
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
12/15/97	145 (2)	126201	4/15/98	43-106	133858	5/3/98	.21	BSM0490
CALIBRATION DATES VERIFIED AS ACCEPTABLE								



## Maine Yankee Atomic Power Plant Site Characterization

## DOWNLOAD FILE & SURVEY INSTRUMENTATION CALIBRATION SUMMARY

03/24/98

## Direct Measurements For Total Beta Activity

Survey Package : B1700 SURFACES & STRUCTURES  
Staff Building - All Elevations

SURVEY DATE	FILE #	M2350		DETECTOR			PRE EFF	TECHNICIAN
		INST S/N	CAL DUE	MODEL	S/N	CAL DUE		
12/15/97	147 (2)	98620	3/20/98	43-106	128919	3/20/98	.20	DRK2986
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
12/19/97	200 (2)	98620	3/20/98	43-106	128919	3/20/98	.21	DRK2986
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
12/19/97	201 (2)	126201	4/15/98	43-106	133858	5/3/98	.22	BSM0490
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
12/29/97	202 (2)	98620	3/20/98	43-106	128919	3/20/98	.20	DRK2986
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
12/29/97	203 (2)	126201	4/15/98	43-106	133858	5/3/98	.22	BSM0490
CALIBRATION DATES VERIFIED AS ACCEPTABLE								



Maine Yankee Atomic Power Plant Site Characterization

03/24/98

Removable Contamination - Gross Beta Activity

Survey Package B1700 SURFACES & STRUCTURES  
Staff Building - All Elevations

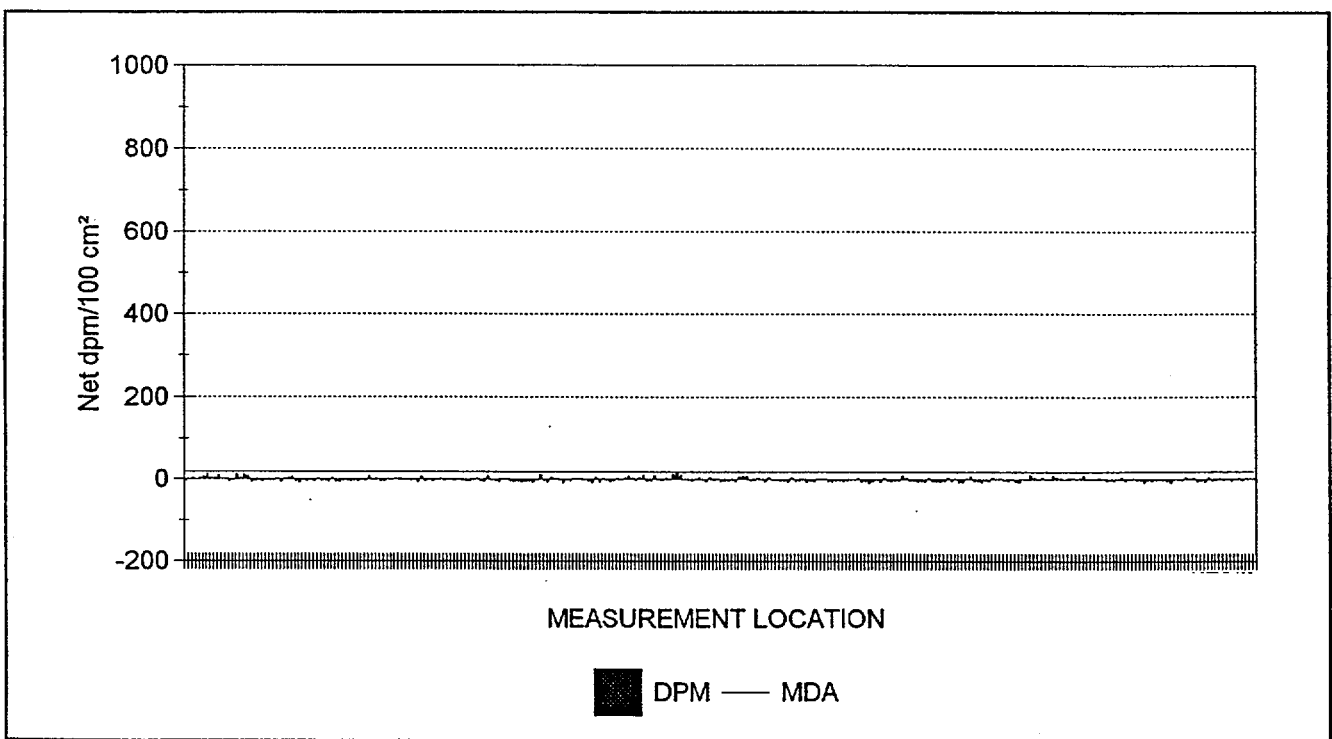
STATISTICAL SUMMARY

TESTS PERFORMED

	Net dpm/100 cm <sup>2</sup>
Mean	-1.0
Maximum	14.4
Minimum	-9.2
Standard Deviation	4.5
MDA	17.8

Samples reported satisfy samples prescribed	YES
MDA <100 net dpm/100 cm <sup>2</sup>	YES
Results above 100 net dpm/100 cm <sup>2</sup>	0
Number of results above MDA	0

Samples Reported	288
Samples Prescribed	288



288 RESULTS ARE GRAPHED



Maine Yankee Atomic Power Plant Site Characterization

03/24/98

Removable Contamination - Gross Alpha Activity

Survey Package B1700 SURFACES & STRUCTURES  
Staff Building - All Elevations

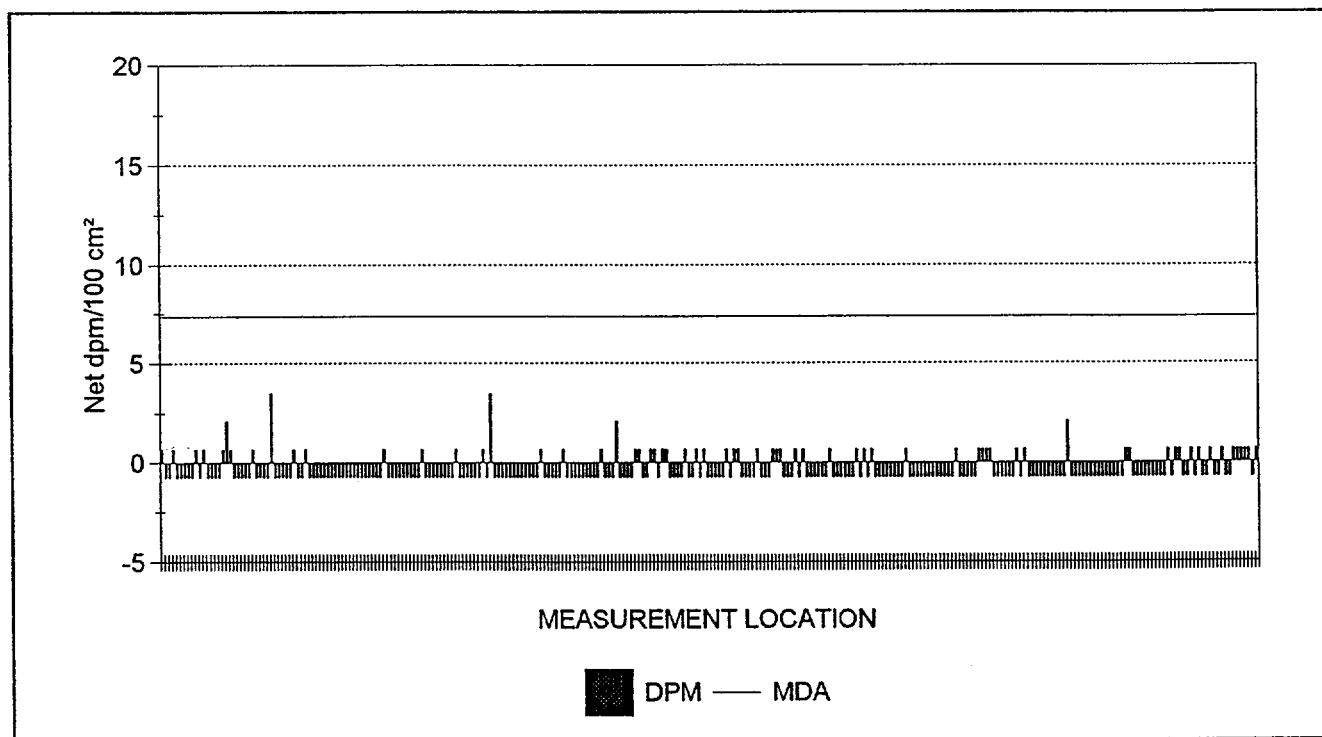
STATISTICAL SUMMARY

TESTS PERFORMED

	Net dpm/100 cm <sup>2</sup>
Mean	-0.4
Maximum	3.5
Minimum	-0.8
Standard Deviation	0.7
MDA	7.3

Samples reported satisfy samples prescribed	YES
MDA <10 net dpm/100 cm <sup>2</sup>	YES
Results above 20 net dpm/100 cm <sup>2</sup>	0
Number of results above MDA	0

Samples Reported	288
Samples Prescribed	288



288 RESULTS ARE GRAPHED



## Maine Yankee Atomic Power Plant Site Characterization

03/24/98

## Removable Contamination

Survey Package : B1700 SURFACES & STRUCTURES  
Staff Building - All Elevations

## RESULTS LISTING - SORTED BY SURFACE CODE

XLS FILE	UNIT	SURFACE	REASON	COUNT TIME	MSRMNT LOCATION	ALPHA	BETA
SME1B046.XLS	04	WS1	C01	2	9	0.7	0.9
SME1B046.XLS	04	WS1	C01	2	8	-0.8	0.9
SME1B046.XLS	04	WS1	C01	2	7	0.7	2.6
SME1B046.XLS	04	WS1	C01	2	6	0.7	-2.5
SME1B046.XLS	04	WS1	C01	2	5	0.7	2.6
SME1B046.XLS	04	WS1	C01	2	4	0.7	-0.8
SME1B046.XLS	04	WS1	C01	2	30	0.7	-4.1
SME1B046.XLS	04	WS1	C01	2	3	-0.8	0.9
SME1B046.XLS	04	WS1	C01	2	29	-0.8	-2.5
SME1B046.XLS	04	WS1	C01	2	28	0.7	0.9
SME1B046.XLS	04	WS1	C01	2	27	-0.8	-2.5
SME1B046.XLS	04	WS1	C01	2	26	-0.8	-4.1
SME1B046.XLS	04	WS1	C01	2	25	0.7	4.3
SME1B046.XLS	04	WS1	C01	2	24	-0.8	-7.5
SME1B046.XLS	04	WS1	C01	2	23	-0.8	-4.1
SME1B046.XLS	04	WS1	C01	2	22	0.7	-5.8
SME1B046.XLS	04	WS1	C01	2	21	-0.8	2.6
SME1B046.XLS	04	WS1	C01	2	20	0.7	0.9
SME1B046.XLS	04	WS1	C01	2	2	-0.8	4.3
SME1B046.XLS	04	WS1	C01	2	19	-0.8	-2.5
SME1B046.XLS	04	WS1	C01	2	18	0.7	-0.8
SME1B046.XLS	04	WS1	C01	2	17	0.7	-0.8
SME1B046.XLS	04	WS1	C01	2	16	-0.8	-9.2
SME1B046.XLS	04	WS1	C01	2	15	0.7	-4.1
SME1B046.XLS	04	WS1	C01	2	14	-0.8	-2.5
SME1B046.XLS	04	WS1	C01	2	13	-0.8	-0.8
SME1B046.XLS	04	WS1	C01	2	12	-0.8	-2.5
SME1B046.XLS	04	WS1	C01	2	11	-0.8	-4.1
SME1B046.XLS	04	WS1	C01	2	10	-0.8	-2.5
SME1B046.XLS	04	WS1	C01	2	1	-0.8	-9.2
SME1B046.XLS	04	FL1	C01	2	9	-0.8	-2.5
SME1B046.XLS	04	FL1	C01	2	8	-0.8	-2.5
SME1B046.XLS	04	FL1	C01	2	7	-0.8	0.9
SME1B046.XLS	04	FL1	C01	2	6	0.7	-0.8
SME1B046.XLS	04	FL1	C01	2	5	0.7	-4.1
SME1B046.XLS	04	FL1	C01	2	4	-0.8	4.3
SME1B046.XLS	04	FL1	C01	2	30	-0.8	-0.8
SME1B046.XLS	04	FL1	C01	2	3	-0.8	-4.1
SME1B046.XLS	04	FL1	C01	2	29	-0.8	-2.5
SME1B046.XLS	04	FL1	C01	2	28	-0.8	-4.1

NOTES: Activity reported in net dpm/100 cm<sup>2</sup>. Count times are reported in minutes.  
Underlined values exceed the associated MDA.  
Bold values exceed 100.00 dpm/100 cm<sup>2</sup> (beta activity) and/or 20.00 dpm/100 cm<sup>2</sup> (alpha activity).



## Maine Yankee Atomic Power Plant Site Characterization

03/24/98

## Removable Contamination

Survey Package : B1700 SURFACES & STRUCTURES  
Staff Building - All Elevations

## RESULTS LISTING - SORTED BY SURFACE CODE

XLS FILE	UNIT	SURFACE	REASON	COUNT	MSRMNT	ALPHA	BETA
				TIME	LOCATION		
SME1B046.XLS	04	FL1	C01	2	27	-0.8	0.9
SME1B046.XLS	04	FL1	C01	2	26	-0.8	2.6
SME1B046.XLS	04	FL1	C01	2	25	-0.8	0.9
SME1B046.XLS	04	FL1	C01	2	24	-0.8	0.9
SME1B046.XLS	04	FL1	C01	2	23	-0.8	-0.8
SME1B046.XLS	04	FL1	C01	2	22	-0.8	9.3
SME1B046.XLS	04	FL1	C01	2	21	-0.8	2.6
SME1B046.XLS	04	FL1	C01	2	20	-0.8	0.9
SME1B046.XLS	04	FL1	C01	2	2	-0.8	2.6
SME1B046.XLS	04	FL1	C01	2	19	2.1	2.6
SME1B046.XLS	04	FL1	C01	2	18	-0.8	-0.8
SME1B046.XLS	04	FL1	C01	2	17	-0.8	2.6
SME1B046.XLS	04	FL1	C01	2	16	-0.8	4.3
SME1B046.XLS	04	FL1	C01	2	15	-0.8	9.3
SME1B046.XLS	04	FL1	C01	2	14	-0.8	0.9
SME1B046.XLS	04	FL1	C01	2	13	-0.8	0.9
SME1B046.XLS	04	FL1	C01	2	12	-0.8	4.3
SME1B046.XLS	04	FL1	C01	2	11	-0.8	0.9
SME1B046.XLS	04	FL1	C01	2	10	-0.8	4.3
SME1B046.XLS	04	FL1	C01	2	1	-0.8	11.0
SME1B045.XLS	04	CL1	C01	2	9	0.7	-0.8
SME1B045.XLS	04	CL1	C01	2	8	-0.8	0.9
SME1B045.XLS	04	CL1	C01	2	7	0.7	-7.5
SME1B045.XLS	04	CL1	C01	2	6	-0.8	-5.8
SME1B045.XLS	04	CL1	C01	2	5	-0.8	-0.8
SME1B045.XLS	04	CL1	C01	2	4	-0.8	-4.1
SME1B045.XLS	04	CL1	C01	2	3	-0.8	-2.5
SME1B045.XLS	04	CL1	C01	2	2	-0.8	2.6
SME1B045.XLS	04	CL1	C01	2	10	-0.8	0.9
SME1B045.XLS	04	CL1	C01	2	1	0.7	4.3
SME1B045.XLS	03	WSI	C01	2	30	0.7	-4.1
SME1B045.XLS	03	WSI	C01	2	29	0.7	-2.5
SME1B045.XLS	03	WSI	C01	2	28	0.7	-7.5
SME1B045.XLS	03	WSI	C01	2	27	-0.8	-4.1
SME1B045.XLS	03	WSI	C01	2	26	-0.8	-4.1
SME1B045.XLS	03	WS1	C01	2	9	-0.8	7.6
SME1B045.XLS	03	WS1	C01	2	8	-0.8	0.9
SME1B045.XLS	03	WS1	C01	2	7	-0.8	-7.5
SME1B045.XLS	03	WS1	C01	2	6	0.7	-7.5
SME1B045.XLS	03	WS1	C01	2	5	-0.8	0.9

NOTES: Activity reported in net dpm/100 cm<sup>2</sup>. Count times are reported in minutes.  
Underlined values exceed the associated MDA.  
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## Maine Yankee Atomic Power Plant Site Characterization

03/24/98

## Removable Contamination

Survey Package : B1700 SURFACES & STRUCTURES  
Staff Building - All Elevations

## RESULTS LISTING - SORTED BY SURFACE CODE

XLS FILE	UNIT	SURFACE	REASON	COUNT	MSRMNT	ALPHA	BETA
				TIME	LOCATION		
SME1B045.XLS	03	WS1	C01	2	4	-0.8	-4.1
SME1B045.XLS	03	WS1	C01	2	3	-0.8	4.3
SME1B045.XLS	03	WS1	C01	2	25	-0.8	-4.1
SME1B045.XLS	03	WS1	C01	2	24	-0.8	-5.8
SME1B045.XLS	03	WS1	C01	2	23	-0.8	-5.8
SME1B045.XLS	03	WS1	C01	2	22	-0.8	-4.1
SME1B045.XLS	03	WS1	C01	2	21	-0.8	2.6
SME1B045.XLS	03	WS1	C01	2	20	-0.8	-5.8
SME1B045.XLS	03	WS1	C01	2	2	-0.8	-4.1
SME1B045.XLS	03	WS1	C01	2	19	-0.8	-5.8
SME1B045.XLS	03	WS1	C01	2	18	-0.8	-2.5
SME1B045.XLS	03	WS1	C01	2	17	0.7	-2.5
SME1B045.XLS	03	WS1	C01	2	16	-0.8	2.6
SME1B045.XLS	03	WS1	C01	2	15	-0.8	9.3
SME1B045.XLS	03	WS1	C01	2	14	-0.8	-2.5
SME1B045.XLS	03	WS1	C01	2	13	-0.8	-2.5
SME1B045.XLS	03	WS1	C01	2	12	-0.8	-4.1
SME1B045.XLS	03	WS1	C01	2	11	-0.8	-2.5
SME1B045.XLS	03	WS1	C01	2	10	-0.8	2.6
SME1B045.XLS	03	WS1	C01	2	1	-0.8	-5.8
SME1B046.XLS	03	FL1	C01	2	9	0.7	-0.8
SME1B046.XLS	03	FL1	C01	2	8	-0.8	-5.8
SME1B046.XLS	03	FL1	C01	2	7	0.7	-9.2
SME1B046.XLS	03	FL1	C01	2	6	-0.8	-4.1
SME1B046.XLS	03	FL1	C01	2	5	0.7	-5.8
SME1B046.XLS	03	FL1	C01	2	4	-0.8	2.6
SME1B045.XLS	03	FL1	C01	2	30	-0.8	-0.8
SME1B046.XLS	03	FL1	C01	2	3	-0.8	-0.8
SME1B045.XLS	03	FL1	C01	2	29	-0.8	-2.5
SME1B045.XLS	03	FL1	C01	2	28	-0.8	-4.1
SME1B045.XLS	03	FL1	C01	2	27	-0.8	-2.5
SME1B045.XLS	03	FL1	C01	2	26	0.7	-2.5
SME1B045.XLS	03	FL1	C01	2	25	-0.8	-5.8
SME1B045.XLS	03	FL1	C01	2	24	-0.8	-4.1
SME1B045.XLS	03	FL1	C01	2	23	-0.8	0.9
SME1B045.XLS	03	FL1	C01	2	22	-0.8	-0.8
SME1B045.XLS	03	FL1	C01	2	21	-0.8	0.9
SME1B045.XLS	03	FL1	C01	2	20	-0.8	-5.8
SME1B046.XLS	03	FL1	C01	2	2	0.7	-4.1
SME1B045.XLS	03	FL1	C01	2	19	-0.8	-7.5

NOTES: Activity reported in net dpm/100 cm<sup>2</sup>. Count times are reported in minutes.  
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## Maine Yankee Atomic Power Plant Site Characterization

03/24/98

## Removable Contamination

Survey Package : B1700 SURFACES & STRUCTURES  
Staff Building - All Elevations

## RESULTS LISTING - SORTED BY SURFACE CODE

XLS FILE	UNIT	SURFACE	REASON	COUNT TIME	MSRMNT LOCATION	ALPHA	BETA
SME1B045.XLS	03	FL1	C01	2	18	0.7	-0.8
SME1B045.XLS	03	FL1	C01	2	17	-0.8	-2.5
SME1B045.XLS	03	FL1	C01	2	16	-0.8	-4.1
SME1B045.XLS	03	FL1	C01	2	15	-0.8	4.3
SME1B045.XLS	03	FL1	C01	2	14	0.7	-7.5
SME1B045.XLS	03	FL1	C01	2	13	0.7	-4.1
SME1B045.XLS	03	FL1	C01	2	12	0.7	-4.1
SME1B045.XLS	03	FL1	C01	2	11	-0.8	-2.5
SME1B046.XLS	03	FL1	C01	2	10	-0.8	-2.5
SME1B046.XLS	03	FL1	C01	2	1	-0.8	4.3
SME1B045.XLS	03	CL1	C01	2	9	0.7	-5.8
SME1B045.XLS	03	CL1	C01	2	8	-0.8	-0.8
SME1B045.XLS	03	CL1	C01	2	7	-0.8	2.6
SME1B045.XLS	03	CL1	C01	2	6	-0.8	-2.5
SME1B045.XLS	03	CL1	C01	2	5	-0.8	-2.5
SME1B045.XLS	03	CL1	C01	2	4	0.7	7.6
SME1B045.XLS	03	CL1	C01	2	3	0.7	7.6
SME1B045.XLS	03	CL1	C01	2	2	-0.8	5.9
SME1B045.XLS	03	CL1	C01	2	10	0.7	-5.8
SME1B045.XLS	03	CL1	C01	2	1	-0.8	-0.8
SME1B045.XLS	02	WS1	C01	2	9	-0.8	-4.1
SME1B045.XLS	02	WS1	C01	2	8	-0.8	-4.1
SME1B045.XLS	02	WS1	C01	2	7	-0.8	-5.8
SME1B045.XLS	02	WS1	C01	2	6	-0.8	0.9
SME1B045.XLS	02	WS1	C01	2	5	0.7	-2.5
SME1B045.XLS	02	WS1	C01	2	4	-0.8	4.3
SME1B045.XLS	02	WS1	C01	2	30	0.7	-5.8
SME1B045.XLS	02	WS1	C01	2	3	-0.8	-0.8
SME1B045.XLS	02	WS1	C01	2	29	-0.8	4.3
SME1B045.XLS	02	WS1	C01	2	28	0.7	-0.8
SME1B045.XLS	02	WS1	C01	2	27	-0.8	-4.1
SME1B045.XLS	02	WS1	C01	2	26	-0.8	-0.8
SME1B045.XLS	02	WS1	C01	2	25	-0.8	-0.8
SME1B045.XLS	02	WS1	C01	2	24	-0.8	11.0
SME1B045.XLS	02	WS1	C01	2	23	0.7	14.4
SME1B045.XLS	02	WS1	C01	2	22	0.7	12.7
SME1B045.XLS	02	WS1	C01	2	21	-0.8	-0.8
SME1B045.XLS	02	WS1	C01	2	20	0.7	2.6
SME1B045.XLS	02	WS1	C01	2	2	0.7	-2.5
SME1B045.XLS	02	WS1	C01	2	19	-0.8	-0.8

NOTES: Activity reported in net dpm/100 cm<sup>2</sup>. Count times are reported in minutes.  
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## Maine Yankee Atomic Power Plant Site Characterization

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## Removable Contamination

Survey Package : B1700 SURFACES & STRUCTURES  
 Staff Building - All Elevations

## RESULTS LISTING - SORTED BY SURFACE CODE

XLS FILE	UNIT	SURFACE	REASON	COUNT	MSRMNT	ALPHA	BETA
				TIME	LOCATION		
SME1B045.XLS	02	WS1	C01	2	18	-0.8	9.3
SME1B045.XLS	02	WS1	C01	2	17	0.7	-4.1
SME1B045.XLS	02	WS1	C01	2	16	0.7	-4.1
SME1B045.XLS	02	WS1	C01	2	15	-0.8	11.0
SME1B045.XLS	02	WS1	C01	2	14	-0.8	2.6
SME1B045.XLS	02	WS1	C01	2	13	-0.8	-2.5
SME1B045.XLS	02	WS1	C01	2	12	-0.8	2.6
SME1B045.XLS	02	WS1	C01	2	11	2.1	7.6
SME1B045.XLS	02	WS1	C01	2	10	-0.8	2.6
SME1B045.XLS	02	WS1	C01	2	1	-0.8	-0.8
SME1B045.XLS	02	FL1	C01	2	9	-0.8	0.9
SME1B045.XLS	02	FL1	C01	2	8	0.7	-4.1
SME1B045.XLS	02	FL1	C01	2	7	-0.8	-5.8
SME1B045.XLS	02	FL1	C01	2	6	-0.8	-2.5
SME1B045.XLS	02	FL1	C01	2	5	-0.8	0.9
SME1B045.XLS	02	FL1	C01	2	4	-0.8	-7.5
SME1B045.XLS	02	FL1	C01	2	30	-0.8	4.3
SME1B045.XLS	02	FL1	C01	2	3	-0.8	-9.2
SME1B045.XLS	02	FL1	C01	2	29	-0.8	-4.1
SME1B045.XLS	02	FL1	C01	2	28	-0.8	-0.8
SME1B045.XLS	02	FL1	C01	2	27	-0.8	0.9
SME1B045.XLS	02	FL1	C01	2	26	0.7	0.9
SME1B045.XLS	02	FL1	C01	2	25	-0.8	0.9
SME1B045.XLS	02	FL1	C01	2	24	-0.8	-4.1
SME1B045.XLS	02	FL1	C01	2	23	-0.8	-0.8
SME1B045.XLS	02	FL1	C01	2	22	-0.8	-9.2
SME1B045.XLS	02	FL1	C01	2	21	-0.8	-0.8
SME1B045.XLS	02	FL1	C01	2	20	0.7	0.9
SME1B045.XLS	02	FL1	C01	2	2	-0.8	4.3
SME1B045.XLS	02	FL1	C01	2	19	-0.8	-7.5
SME1B045.XLS	02	FL1	C01	2	18	-0.8	-2.5
SME1B045.XLS	02	FL1	C01	2	17	-0.8	11.0
SME1B045.XLS	02	FL1	C01	2	16	-0.8	-2.5
SME1B045.XLS	02	FL1	C01	2	15	-0.8	-7.5
SME1B045.XLS	02	FL1	C01	2	14	-0.8	-4.1
SME1B045.XLS	02	FL1	C01	2	13	-0.8	-5.8
SME1B045.XLS	02	FL1	C01	2	12	-0.8	-7.5
SME1B045.XLS	02	FL1	C01	2	11	-0.8	-4.1
SME1B045.XLS	02	FL1	C01	2	10	-0.8	-5.8
SME1B045.XLS	02	FL1	C01	2	1	-0.8	-4.1

NOTES: Activity reported in net dpm/100 cm<sup>2</sup>. Count times are reported in minutes.

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## Maine Yankee Atomic Power Plant Site Characterization

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## Removable Contamination

Survey Package : B1700 SURFACES & STRUCTURES  
Staff Building - All Elevations

## RESULTS LISTING - SORTED BY SURFACE CODE

XLS FILE	UNIT	SURFACE	REASON	COUNT	MSRMNT	ALPHA	BETA
				TIME	LOCATION		
SME1B045.XLS	02	CL1	C01	2	9	3.5	0.9
SME1B045.XLS	02	CL1	C01	2	8	-0.8	0.9
SME1B045.XLS	02	CL1	C01	2	7	0.7	-5.8
SME1B045.XLS	02	CL1	C01	2	6	-0.8	-2.5
SME1B045.XLS	02	CL1	C01	2	5	-0.8	-2.5
SME1B045.XLS	02	CL1	C01	2	4	-0.8	7.6
SME1B045.XLS	02	CL1	C01	2	3	-0.8	-5.8
SME1B045.XLS	02	CL1	C01	2	2	-0.8	-4.1
SME1B045.XLS	02	CL1	C01	2	10	-0.8	0.9
SME1B045.XLS	02	CL1	C01	2	1	0.7	-0.8
SME1B045.XLS	01	WC1	C01	2	9	-0.8	-4.1
SME1B045.XLS	01	WC1	C01	2	8	-0.8	-4.1
SME1B045.XLS	01	WC1	C01	2	7	-0.8	-2.5
SME1B045.XLS	01	WC1	C01	2	6	-0.8	-0.8
SME1B045.XLS	01	WC1	C01	2	5	-0.8	-2.5
SME1B045.XLS	01	WC1	C01	2	4	-0.8	-0.8
SME1B045.XLS	01	WC1	C01	2	30	-0.8	-0.8
SME1B045.XLS	01	WC1	C01	2	3	-0.8	-2.5
SME1B045.XLS	01	WC1	C01	2	29	0.7	0.9
SME1B045.XLS	01	WC1	C01	2	28	-0.8	-0.8
SME1B045.XLS	01	WC1	C01	2	27	-0.8	-4.1
SME1B045.XLS	01	WC1	C01	2	26	-0.8	-0.8
SME1B045.XLS	01	WC1	C01	2	25	-0.8	-4.1
SME1B045.XLS	01	WC1	C01	2	24	-0.8	7.6
SME1B045.XLS	01	WC1	C01	2	23	-0.8	-7.5
SME1B045.XLS	01	WC1	C01	2	22	-0.8	-0.8
SME1B045.XLS	01	WC1	C01	2	21	-0.8	-2.5
SME1B045.XLS	01	WC1	C01	2	20	-0.8	-0.8
SME1B045.XLS	01	WC1	C01	2	2	0.7	-0.8
SME1B045.XLS	01	WC1	C01	2	19	-0.8	0.9
SME1B045.XLS	01	WC1	C01	2	18	-0.8	0.9
SME1B045.XLS	01	WC1	C01	2	17	-0.8	-0.8
SME1B045.XLS	01	WC1	C01	2	16	-0.8	0.9
SME1B045.XLS	01	WC1	C01	2	15	-0.8	-4.1
SME1B045.XLS	01	WC1	C01	2	14	-0.8	-4.1
SME1B045.XLS	01	WC1	C01	2	13	-0.8	0.9
SME1B045.XLS	01	WC1	C01	2	12	-0.8	-0.8
SME1B045.XLS	01	WC1	C01	2	11	-0.8	7.6
SME1B045.XLS	01	WC1	C01	2	10	-0.8	-2.5
SME1B045.XLS	01	WC1	C01	2	1	-0.8	-0.8

NOTES: Activity reported in net dpm/100 cm<sup>2</sup>. Count times are reported in minutes.  
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## Maine Yankee Atomic Power Plant Site Characterization

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Survey Package: B1700 SURFACES & STRUCTURES  
Staff Building - All Elevations

## RESULTS LISTING - SORTED BY SURFACE CODE

XLS FILE	UNIT	SURFACE	REASON	COUNT	MSRMNT	ALPHA	BETA
				TIME	LOCATION		
SME1B046.XLS	01	SW1	C01	2	9	-0.8	-4.1
SME1B046.XLS	01	SW1	C01	2	8	-0.8	-2.5
SME1B046.XLS	01	SW1	C01	2	7	-0.8	-4.1
SME1B046.XLS	01	SW1	C01	2	6	-0.8	-2.5
SME1B046.XLS	01	SW1	C01	2	5	-0.8	-2.5
SME1B046.XLS	01	SW1	C01	2	4	-0.8	-7.5
SME1B046.XLS	01	SW1	C01	2	3	-0.8	-5.8
SME1B046.XLS	01	SW1	C01	2	2	-0.8	2.6
SME1B046.XLS	01	SW1	C01	2	18	-0.8	-5.8
SME1B046.XLS	01	SW1	C01	2	17	0.7	-2.5
SME1B046.XLS	01	SW1	C01	2	16	-0.8	-4.1
SME1B046.XLS	01	SW1	C01	2	15	-0.8	0.9
SME1B046.XLS	01	SW1	C01	2	14	0.7	-4.1
SME1B046.XLS	01	SW1	C01	2	13	-0.8	-0.8
SME1B046.XLS	01	SW1	C01	2	12	-0.8	-4.1
SME1B046.XLS	01	SW1	C01	2	11	-0.8	-2.5
SME1B046.XLS	01	SW1	C01	2	10	-0.8	-9.2
SME1B046.XLS	01	SW1	C01	2	1	-0.8	-4.1
SME1B045.XLS	01	FL1	C01	2	9	3.5	5.9
SME1B045.XLS	01	FL1	C01	2	8	-0.8	2.6
SME1B045.XLS	01	FL1	C01	2	7	-0.8	0.9
SME1B045.XLS	01	FL1	C01	2	6	-0.8	-5.8
SME1B045.XLS	01	FL1	C01	2	5	-0.8	0.9
SME1B045.XLS	01	FL1	C01	2	4	0.7	-2.5

REMAINING RESULTS PRINTED ON NEXT PAGE

NOTES: Activity reported in net dpm/100 cm<sup>2</sup>. Count times are reported in minutes.  
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## Maine Yankee Atomic Power Plant Site Characterization

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## Removable Contamination

Survey Package: B1700 SURFACES & STRUCTURES  
Staff Building - All Elevations

## RESULTS LISTING - SORTED BY SURFACE CODE

XLS FILE	UNIT	SURFACE	REASON	COUNT	MSRMNT	ALPHA	BETA
				TIME	LOCATION		
SME1B045.XLS	01	FL1	C01	2	30	-0.8	-2.5
SME1B045.XLS	01	FL1	C01	2	3	-0.8	-2.5
SME1B045.XLS	01	FL1	C01	2	29	-0.8	-5.8
SME1B045.XLS	01	FL1	C01	2	28	-0.8	-2.5
SME1B045.XLS	01	FL1	C01	2	27	-0.8	-4.1
SME1B045.XLS	01	FL1	C01	2	26	0.7	-7.5
SME1B045.XLS	01	FL1	C01	2	25	2.1	7.6
SME1B045.XLS	01	FL1	C01	2	24	0.7	11.0
SME1B045.XLS	01	FL1	C01	2	23	-0.8	2.6
SME1B045.XLS	01	FL1	C01	2	22	-0.8	12.7
SME1B045.XLS	01	FL1	C01	2	21	-0.8	-2.5
SME1B045.XLS	01	FL1	C01	2	20	-0.8	-5.8
SME1B045.XLS	01	FL1	C01	2	2	0.7	0.9
SME1B045.XLS	01	FL1	C01	2	19	-0.8	0.9
SME1B045.XLS	01	FL1	C01	2	18	0.7	9.3
SME1B045.XLS	01	FL1	C01	2	17	-0.8	2.6
SME1B045.XLS	01	FL1	C01	2	16	-0.8	2.6
SME1B045.XLS	01	FL1	C01	2	15	-0.8	12.7
SME1B045.XLS	01	FL1	C01	2	14	-0.8	5.9
SME1B045.XLS	01	FL1	C01	2	13	-0.8	2.6
SME1B045.XLS	01	FL1	C01	2	12	0.7	-0.8
SME1B045.XLS	01	FL1	C01	2	11	-0.8	2.6
SME1B045.XLS	01	FL1	C01	2	10	-0.8	-0.8
SME1B045.XLS	01	FL1	C01	2	1	0.7	-4.1

NOTES: Activity reported in net dpm/100 cm<sup>2</sup>. Count times are reported in minutes.

Underlined values exceed the associated MDA.

Bold values exceed 100.00 dpm/100 cm<sup>2</sup> (beta activity) and/or 20.00 dpm/100 cm<sup>2</sup> (alpha activity).

288 results are listed.



## Maine Yankee Atomic Power Plant Site Characterization

## DATAFILE &amp; TENNELEC CALIBRATION SUMMARY

03/24/98

Removable Contamination

Survey Package : B1700 SURFACES & STRUCTURES  
Staff Building - All Elevations

SURVEYDATE	XLS FILE	INST ID	S/N	CAL DUE	LAB TECHNICIAN
2/11/98	SME1B045.XLS	1	14131	8/7/98	SNM
CALIBRATION DATE VERIFIED AS ACCEPTABLE					
2/11/98	SME1B046.XLS	1	14131	8/7/98	SNM
CALIBRATION DATE VERIFIED AS ACCEPTABLE					



Maine Yankee Atomic Power Plant Site Characterization

03/24/98

Gamma Exposure Rate Measurements At 1 Meter

Survey Package B1700 SURFACES & STRUCTURES  
Staff Building - All Elevations

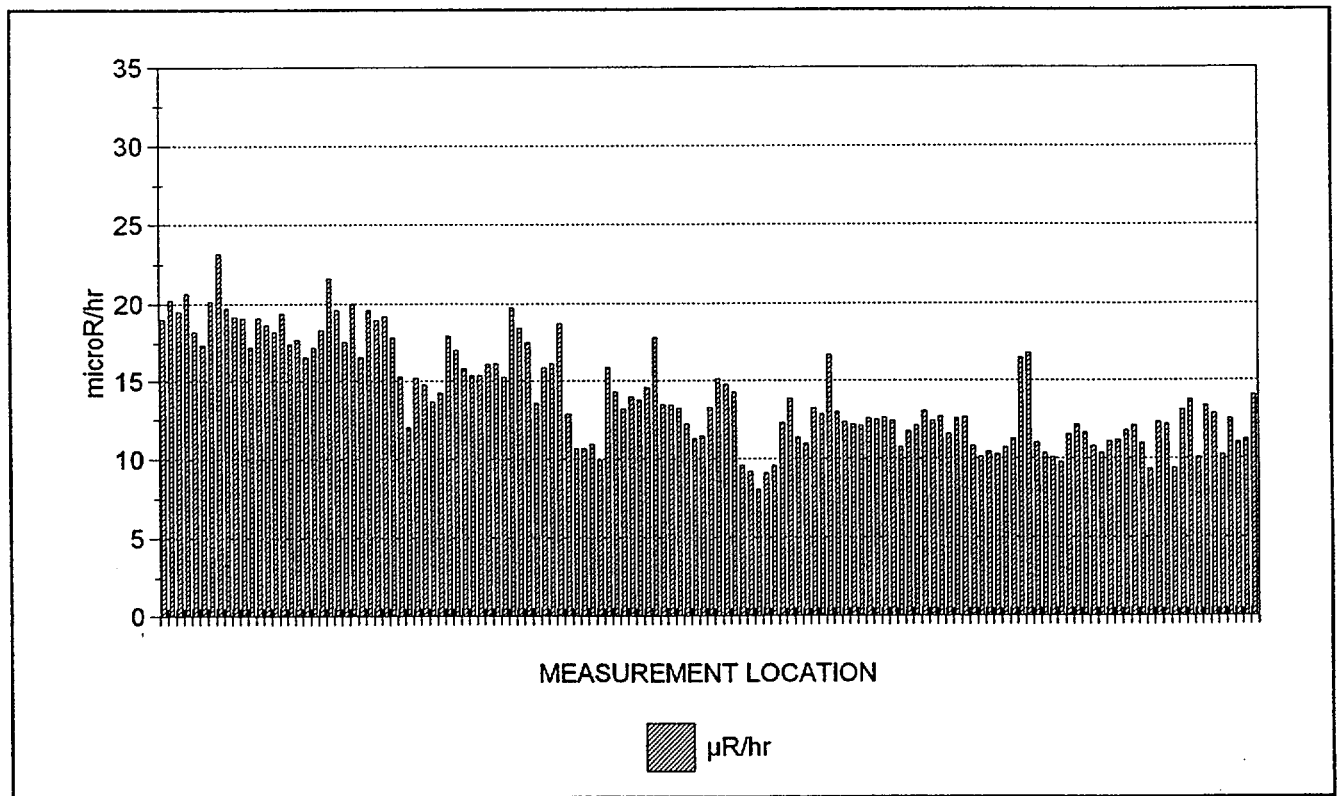
STATISTICAL SUMMARY

TESTS PERFORMED

	$\mu\text{R/hr}$
Mean	14.2
Maximum	23.2
Minimum	8.1
Standard Deviation	3.3

Samples reported satisfy samples prescribed	YES
---------------------------------------------	-----

Samples Reported	138
Samples Prescribed	138



138 RESULTS ARE GRAPHED



## Maine Yankee Atomic Power Plant Site Characterization

03/24/98

## Gamma Exposure Rate Measurements At 1 Meter

Survey Package : B1700 SURFACES & STRUCTURES  
Staff Building - All Elevations

## RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	RESULT
370 (2)	01	FL1	B0009	C01	60.00	00019	<b>19.0</b>
370 (2)	01	FL1	B0009	C01	60.00	00023	<b>20.2</b>
370 (2)	01	FL1	B0026	C01	60.00	00002	<b>19.5</b>
370 (2)	01	FL1	B0026	C01	60.00	00003	<b>20.7</b>
370 (2)	01	FL1	B0026	C01	60.00	00004	<b>18.2</b>
370 (2)	01	FL1	B0026	C01	60.00	00028	<b>17.4</b>
370 (2)	01	FL1	B0026	C01	60.00	00029	<b>20.2</b>
370 (2)	01	FL1	B0026	C01	60.00	00030	<b>23.2</b>
370 (2)	01	FL1	B0027	C01	60.00	00001	<b>19.7</b>
370 (2)	01	FL1	B0027	C01	60.00	00005	<b>19.2</b>
370 (2)	01	FL1	B0027	C01	60.00	00006	<b>19.1</b>
370 (2)	01	FL1	B0027	C01	60.00	00007	<b>17.2</b>
370 (2)	01	FL1	B0027	C01	60.00	00008	<b>19.1</b>
370 (2)	01	FL1	B0027	C01	60.00	00009	<b>18.7</b>
370 (2)	01	FL1	B0027	C01	60.00	00010	<b>18.2</b>
370 (2)	01	FL1	B0027	C01	60.00	00011	<b>19.4</b>
370 (2)	01	FL1	B0027	C01	60.00	00012	<b>17.5</b>
370 (2)	01	FL1	B0027	C01	60.00	00013	<b>17.7</b>
370 (2)	01	FL1	B0027	C01	60.00	00014	<b>16.5</b>
370 (2)	01	FL1	B0027	C01	60.00	00015	<b>17.2</b>
370 (2)	01	FL1	B0027	C01	60.00	00016	<b>18.4</b>
370 (2)	01	FL1	B0027	C01	60.00	00017	<b>21.6</b>
370 (2)	01	FL1	B0027	C01	60.00	00018	<b>19.6</b>
370 (2)	01	FL1	B0027	C01	60.00	00020	<b>17.5</b>
370 (2)	01	FL1	B0027	C01	60.00	00021	<b>20.0</b>
370 (2)	01	FL1	B0027	C01	60.00	00022	16.5
370 (2)	01	FL1	B0027	C01	60.00	00024	<b>19.6</b>
370 (2)	01	FL1	B0027	C01	60.00	00025	<b>19.0</b>
370 (2)	01	FL1	B0027	C01	60.00	00026	<b>19.2</b>
370 (2)	01	FL1	B0027	C01	60.00	00027	<b>17.9</b>
371 (2)	01	SW1	B0026	C01	60.00	00001	<b>15.3</b>
371 (2)	01	SW1	B0026	C01	60.00	00002	12.0
371 (2)	01	SW1	B0026	C01	60.00	00004	<b>15.2</b>
371 (2)	01	SW1	B0026	C01	60.00	00005	14.8
371 (2)	01	SW1	B0026	C01	60.00	00006	13.7
371 (2)	01	SW1	B0026	C01	60.00	00007	14.2
371 (2)	01	SW1	B0026	C01	60.00	00008	<b>18.0</b>
371 (2)	01	SW1	B0026	C01	60.00	00009	<b>17.0</b>
370 (2)	01	SW1	B0026	C01	60.00	00010	<b>15.8</b>
370 (2)	01	SW1	B0026	C01	60.00	00011	<b>15.4</b>

NOTES: Exposure rates reported in net  $\mu\text{R/hr}$ . Count times are reported in seconds.  
Underlined results did not meet the minimum required count time.  
Bold values exceed 15  $\mu\text{R/hr}$ .



## Maine Yankee Atomic Power Plant Site Characterization

03/24/98

## Gamma Exposure Rate Measurements At 1 Meter

Survey Package : B1700 SURFACES & STRUCTURES  
Staff Building - All Elevations

## RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	RESULT
370 (2)	01	SW1	B0026	C01	60.00	00012	<b>15.3</b>
370 (2)	01	SW1	B0026	C01	60.00	00013	<b>16.1</b>
370 (2)	01	SW1	B0026	C01	60.00	00014	<b>16.1</b>
370 (2)	01	SW1	B0026	C01	60.00	00015	<b>15.2</b>
370 (2)	01	SW1	B0026	C01	60.00	00016	<b>19.8</b>
370 (2)	01	SW1	B0026	C01	60.00	00017	<b>18.5</b>
370 (2)	01	SW1	B0026	C01	60.00	00018	<b>17.5</b>
371 (2)	01	SW1	B0026	C01	60.00	20003	13.6
370 (2)	02	FL1	B0008	C01	60.00	00017	<b>15.8</b>
370 (2)	02	FL1	B0008	C01	60.00	00018	<b>16.1</b>
370 (2)	02	FL1	B0009	C01	60.00	00016	<b>18.7</b>
370 (2)	02	FL1	B0026	C01	60.00	00020	12.9
370 (2)	02	FL1	B0026	C01	60.00	00022	10.7
370 (2)	02	FL1	B0026	C01	60.00	00023	10.7
370 (2)	02	FL1	B0026	C01	60.00	00024	10.9
370 (2)	02	FL1	B0026	C01	60.00	00025	9.9
370 (2)	02	FL1	B0027	C01	60.00	00001	<b>15.8</b>
370 (2)	02	FL1	B0027	C01	60.00	00002	14.3
370 (2)	02	FL1	B0027	C01	60.00	00003	13.2
370 (2)	02	FL1	B0027	C01	60.00	00004	14.0
370 (2)	02	FL1	B0027	C01	60.00	00005	13.8
370 (2)	02	FL1	B0027	C01	60.00	00006	14.6
370 (2)	02	FL1	B0027	C01	60.00	00007	<b>17.8</b>
370 (2)	02	FL1	B0027	C01	60.00	00008	13.4
370 (2)	02	FL1	B0027	C01	60.00	00009	13.4
370 (2)	02	FL1	B0027	C01	60.00	00010	13.2
370 (2)	02	FL1	B0027	C01	60.00	00011	12.2
370 (2)	02	FL1	B0027	C01	60.00	00012	11.3
370 (2)	02	FL1	B0027	C01	60.00	00013	11.4
370 (2)	02	FL1	B0027	C01	60.00	00014	13.3
370 (2)	02	FL1	B0027	C01	60.00	00015	<b>15.1</b>
370 (2)	02	FL1	B0027	C01	60.00	00019	14.8
370 (2)	02	FL1	B0027	C01	60.00	00021	14.3
370 (2)	02	FL1	B0027	C01	60.00	00026	9.5
370 (2)	02	FL1	B0027	C01	60.00	00027	9.2
370 (2)	02	FL1	B0027	C01	60.00	00028	8.1
370 (2)	02	FL1	B0027	C01	60.00	00029	9.1
370 (2)	02	FL1	B0027	C01	60.00	00030	9.6
371 (2)	03	FL1	B0026	C01	60.00	00001	12.3
371 (2)	03	FL1	B0026	C01	60.00	00002	13.9

NOTES: Exposure rates reported in net  $\mu\text{R/hr}$ . Count times are reported in seconds.  
Underlined results did not meet the minimum required count time.  
Bold values exceed 15  $\mu\text{R/hr}$ .





## Maine Yankee Atomic Power Plant Site Characterization

03/24/98

## Gamma Exposure Rate Measurements At 1 Meter

Survey Package : B1700 SURFACES & STRUCTURES  
Staff Building - All Elevations

## RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	RESULT
371 (2)	03	FL1	B0026	C01	60.00	00012	11.3
371 (2)	03	FL1	B0026	C01	60.00	00013	11.0
371 (2)	03	FL1	B0026	C01	60.00	00018	13.2
371 (2)	03	FL1	B0026	C01	60.00	00019	12.9
371 (2)	03	FL1	B0026	C01	60.00	00022	<b>16.6</b>
371 (2)	03	FL1	B0026	C01	60.00	00029	13.0
371 (2)	03	FL1	B0027	C01	60.00	00003	12.3
371 (2)	03	FL1	B0027	C01	60.00	00004	12.2
371 (2)	03	FL1	B0027	C01	60.00	00005	12.1
371 (2)	03	FL1	B0027	C01	60.00	00006	12.5
371 (2)	03	FL1	B0027	C01	60.00	00007	12.5
371 (2)	03	FL1	B0027	C01	60.00	00008	12.6
371 (2)	03	FL1	B0027	C01	60.00	00009	12.4
371 (2)	03	FL1	B0027	C01	60.00	00010	10.7
371 (2)	03	FL1	B0027	C01	60.00	00011	11.7
371 (2)	03	FL1	B0027	C01	60.00	00014	12.1
371 (2)	03	FL1	B0027	C01	60.00	00015	13.0
371 (2)	03	FL1	B0027	C01	60.00	00016	12.4
371 (2)	03	FL1	B0027	C01	60.00	00017	12.6
371 (2)	03	FL1	B0027	C01	60.00	00020	11.6
371 (2)	03	FL1	B0027	C01	60.00	00021	12.5
371 (2)	03	FL1	B0027	C01	60.00	00023	12.6
371 (2)	03	FL1	B0027	C01	60.00	00024	10.8
371 (2)	03	FL1	B0027	C01	60.00	00025	10.1
371 (2)	03	FL1	B0027	C01	60.00	00026	10.4
371 (2)	03	FL1	B0027	C01	60.00	00027	10.3
371 (2)	03	FL1	B0027	C01	60.00	00028	10.7
371 (2)	03	FL1	B0027	C01	60.00	00030	11.2
371 (2)	04	FL1	B0008	C01	60.00	00023	<b>16.5</b>
371 (2)	04	FL1	B0008	C01	60.00	00024	<b>16.8</b>
371 (2)	04	FL1	B0027	C01	60.00	00001	11.0
371 (2)	04	FL1	B0027	C01	60.00	00002	10.4
371 (2)	04	FL1	B0027	C01	60.00	00003	10.1
371 (2)	04	FL1	B0027	C01	60.00	00004	9.8
371 (2)	04	FL1	B0027	C01	60.00	00005	11.5
371 (2)	04	FL1	B0027	C01	60.00	00006	12.1
371 (2)	04	FL1	B0027	C01	60.00	00007	11.6
371 (2)	04	FL1	B0027	C01	60.00	00008	10.8
371 (2)	04	FL1	B0027	C01	60.00	00009	10.4
371 (2)	04	FL1	B0027	C01	60.00	00010	11.1

NOTES: Exposure rates reported in net  $\mu\text{R/hr}$ . Count times are reported in seconds.  
Underlined results did not meet the minimum required count time.  
Bold values exceed 15  $\mu\text{R/hr}$ .



## Maine Yankee Atomic Power Plant Site Characterization

03/24/98

## Gamma Exposure Rate Measurements At 1 Meter

Survey Package : B1700 SURFACES & STRUCTURES  
Staff Building - All Elevations

## RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	RESULT
371 (2)	04	FL1	B0027	C01	60.00	00011	11.2
371 (2)	04	FL1	B0027	C01	60.00	00012	11.8
371 (2)	04	FL1	B0027	C01	60.00	00013	12.1
371 (2)	04	FL1	B0027	C01	60.00	00014	11.0
371 (2)	04	FL1	B0027	C01	60.00	00015	9.3
371 (2)	04	FL1	B0027	C01	60.00	00016	12.3
371 (2)	04	FL1	B0027	C01	60.00	00017	12.1
371 (2)	04	FL1	B0027	C01	60.00	00018	9.3
371 (2)	04	FL1	B0027	C01	60.00	00019	13.1
371 (2)	04	FL1	B0027	C01	60.00	00020	13.8
371 (2)	04	FL1	B0027	C01	60.00	00021	10.1
371 (2)	04	FL1	B0027	C01	60.00	00022	13.4
371 (2)	04	FL1	B0027	C01	60.00	00025	12.9
371 (2)	04	FL1	B0027	C01	60.00	00026	10.2
371 (2)	04	FL1	B0027	C01	60.00	00027	12.5
371 (2)	04	FL1	B0027	C01	60.00	00028	11.0
371 (2)	04	FL1	B0027	C01	60.00	00029	11.2
371 (2)	04	FL1	B0027	C01	60.00	00030	14.0

NOTES: Exposure rates reported in net  $\mu$ R/hr. Count times are reported in seconds.  
Underlined results did not meet the minimum required count time.  
Bold values exceed 15  $\mu$ R/hr.  
138 results are listed.



## Maine Yankee Atomic Power Plant Site Characterization

## DOWNLOAD FILE & SURVEY INSTRUMENTATION CALIBRATION SUMMARY

03/24/98

Gamma Exposure Rate Measurements At 1 Meter

Survey Package : B1700 SURFACES & STRUCTURES  
Staff Building - All Elevations

SURVEY DATE	FILE #	M2350		DETECTOR			TECHNICIAN
		INST S/N	CAL DUE	MODEL	S/N	CAL DUE	
1/13/98	370 (2)	98620	3/20/98	44-2	129304	4/19/98	DRK2986
CALIBRATION DATES VERIFIED AS ACCEPTABLE							
1/13/98	371 (2)	126201	4/15/98	44-2	129300	5/12/98	BSM0490
CALIBRATION DATES VERIFIED AS ACCEPTABLE							



Maine Yankee Atomic Power Plant Site Characterization

GAMMA SPECTRAL ANALYSIS RESULTS LISTING

03/29/98

OUTPUT BATCH SN = 311

Survey Package B1700 SURFACES & STRUCTURES  
Staff Building - All Elevations

UNIT : 05 SURFACE : MC1 REASON : C01

SAMPLE TYPE OR SURFACE SAMPLED: Construction Materials  
SAMPLE LOCATOR: 00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MYX12	HDS00035	161.6	3600	Co-57	< .1	0.1	0.0
				Co-60	< .1	0.1	0.0
				Cs-134	< .1	0.1	0.0
				Cs-137	< .1	0.1	0.0
				K-40	6.54	1.0	1.2
				Mn-54	< .1	0.1	0.0



## Maine Yankee Atomic Power Plant Site Characterization

04/01/98

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**CHARACTERIZATION SUMMARY**


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SURVEY PACKAGE NUMBER :B1800

SURFACES &amp; STRUCTURES

PACKAGE DESCRIPTION

Spare Generator Building - Elevation 1

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 SURVEY AREA DESCRIPTION

Spare Generator Building

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 GENERAL HISTORICAL INFORMATION (Operational history, etc.)

The Spare Generator Building was constructed to store a spare generator (stator and rotor). A Nitrogen purge was maintained on components and an atmospheric test was required to access building. Construction is concrete foundation, dirt floor, and wood and metal frame walls and ceiling. Ceiling fans provide ventilation.

---

 SUMMARY OF CHARACTERIZATION ACTIVITIES

Survey units were established for the areas as shown in the following Summary of Survey Units. Maps with the survey measurement locations for this package are included on the following pages.

Performed a scan of approximately five square meters at 25 survey measurement locations indicated on the survey map(s). This was approximately 10% of the accessible surface area.

Collected direct measurements for total beta activity at 25 survey measurement locations at the highest location identified in the scan. If an elevated location was not observed, the measurement was collected at an arbitrary location, selected by the technician, within the five square meter scanned area.

Collected smear samples to analyze for removable alpha and beta activity at the same 25 survey locations of direct measurements for total beta activity.

Collected no one meter gamma exposure rate measurements.

Collected soil samples from 3 locations on the dirt floor for gamma spectral analysis.

The survey result statistical summaries, graphs and results listings are shown in the following individual reports including calibration summaries for the instruments used for each measurement type.

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 CHARACTERIZATION SURVEY RESULTS

- o There were no direct measurements for total beta activity above MDA (548 dpm/100cm<sup>2</sup>).
- o There were no measurements for removable beta activity above MDA (17.8 dpm/100cm<sup>2</sup>).
- o There were no measurements for removable alpha activity above MDA (7.3 dpm/100cm<sup>2</sup>).
- o The 3 samples gamma spectral analysis results indicated no plant-derived radionuclide activity above MDA.

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 REFERENCES (Documents, Interviews)



## Maine Yankee Atomic Power Plant Site Characterization

## SUMMARY OF SURVEY UNIT(S)

03/22/98

OUTPUT BATCH SN = 204

**PACKAGE B1800 SURFACES & STRUCTURES**  
Spare Generator Building - Elevation 1

UNIT(S)	SURFACE(S)
01 - Spare Generator Building	CL1 (Ceiling) EQ1 (Equipment) FL1 (Floor *Note* Floor is under ice and water, measurements were not taken.) OA1 (Floor Surface Soil Samples) WS1 (Walls)

**REASON(S)** CHARACTERIZATION SURVEY (C01)

MATERIALS	MAT'L CODE	MATERIAL DESCRIPTION	BETA BKGD (dpm/100 cm <sup>2</sup> )
	B0025	WOOD - PAINTED	0.0
	B0031	METAL - BARE	0.0
	B0035	DRYWALL - PAINTED	0.0
	B0036	METAL - PAINTED	0.0

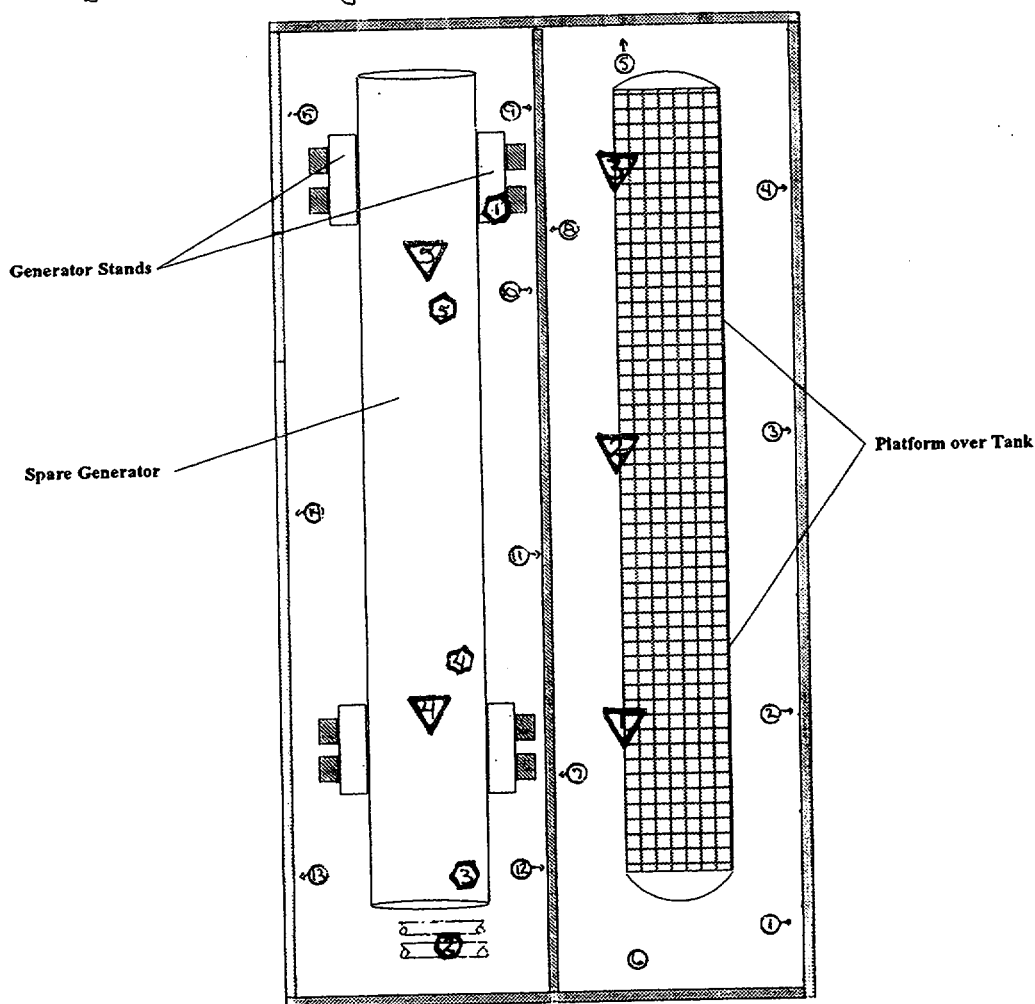
Maine Yankee Atomic Power Plant Site Characterization

SURVEY PACKAGE B1800

B1800 -

- ⊕ - Survey locations on walls
- ⊞ - Survey locations on floors
- ⊟ - Survey locations on eq. point.
- ▽ - Survey locations on ceilings

**Spare Generator Building**





Maine Yankee Atomic Power Plant Site Characterization

03/22/98

Direct Measurements For Total Beta Activity

Survey Package B1800 SURFACES & STRUCTURES  
Spare Generator Building - Elevation 1

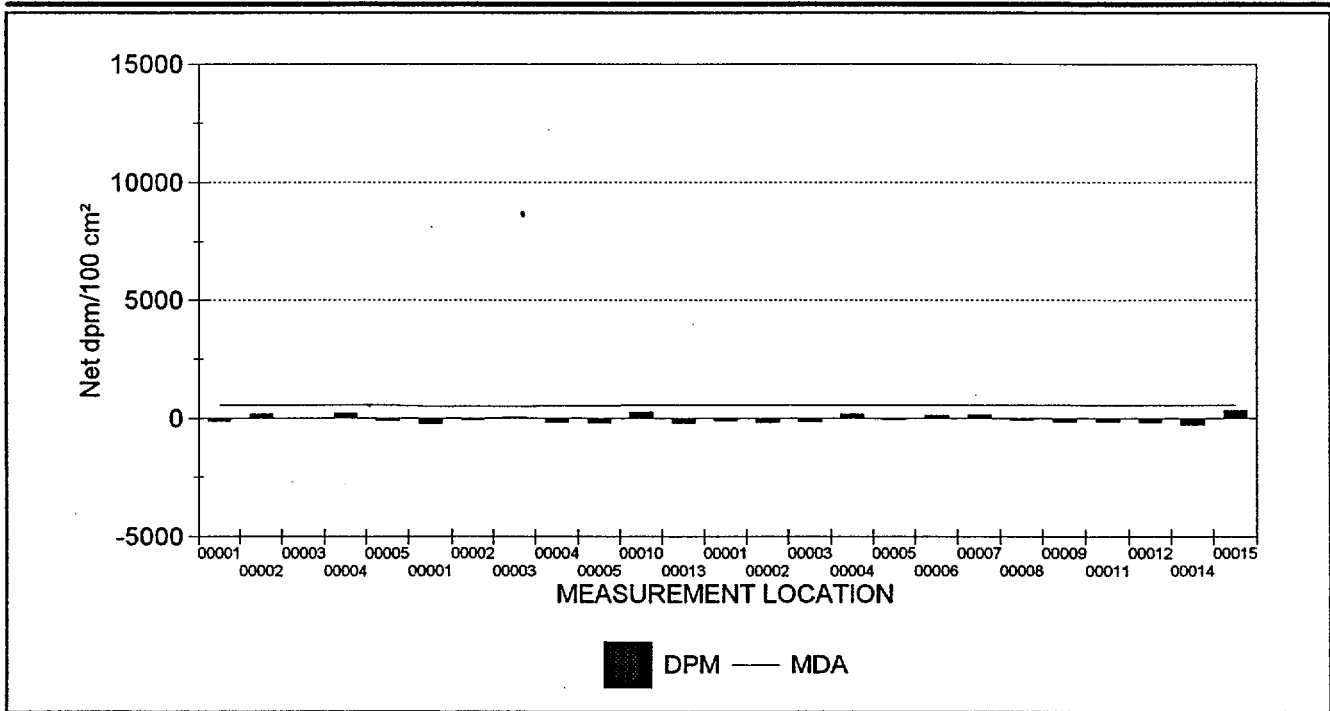
STATISTICAL SUMMARY

TESTS PERFORMED

	Net dpm/100 cm <sup>2</sup>
Mean	-39.8
Maximum	341.9
Minimum	-283.6
Standard Deviation	176.6
MDA	547.9

Samples reported satisfy samples prescribed	YES
MDA <2000 net dpm/100 cm <sup>2</sup>	YES
Results above 2000 net dpm/100 cm <sup>2</sup>	0
Number of results above MDA	0

Samples Reported	25
Samples Prescribed	25



25 RESULTS ARE GRAPHED





## Maine Yankee Atomic Power Plant Site Characterization

03/22/98

## Direct Measurements For Total Beta Activity

Survey Package : B1800 SURFACES & STRUCTURES  
Spare Generator Building - Elevation 1

## RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	MDA	RESULT
228 (2)	01	CL1	B0035	C01	10	00001	547.9	-127.2
228 (2)	01	CL1	B0035	C01	10	00002	547.9	185.5
228 (2)	01	CL1	B0035	C01	10	00003	547.9	6.8
228 (2)	01	CL1	B0035	C01	10	00004	547.9	207.9
228 (2)	01	CL1	B0035	C01	10	00005	547.9	-104.9
236 (2)	01	EQ1	B0031	C01	10	00001	493.4	-245.3
236 (2)	01	EQ1	B0036	C01	10	00002	493.4	-86.8
236 (2)	01	EQ1	B0036	C01	10	00003	493.4	49.1
237 (2)	01	EQ1	B0036	C01	10	00004	513.3	-175.4
237 (2)	01	EQ1	B0036	C01	10	00005	513.3	-219.8
228 (2)	01	WS1	B0025	C01	10	00010	547.9	252.5
228 (2)	01	WS1	B0025	C01	10	00013	547.9	-216.5
225 (2)	01	WS1	B0035	C01	10	00001	540.0	-97.0
225 (2)	01	WS1	B0035	C01	10	00002	540.0	-183.3
225 (2)	01	WS1	B0035	C01	10	00003	540.0	-161.7
225 (2)	01	WS1	B0035	C01	10	00004	540.0	183.3
225 (2)	01	WS1	B0035	C01	10	00005	540.0	-53.9
225 (2)	01	WS1	B0035	C01	10	00006	540.0	118.6
225 (2)	01	WS1	B0035	C01	10	00007	540.0	161.7
225 (2)	01	WS1	B0035	C01	10	00008	540.0	-75.5
228 (2)	01	WS1	B0035	C01	10	00009	547.9	-149.5
228 (2)	01	WS1	B0035	C01	10	00011	547.9	-149.5
228 (2)	01	WS1	B0035	C01	10	00012	547.9	-171.9
228 (2)	01	WS1	B0035	C01	10	00014	547.9	-283.6
228 (2)	01	WS1	B0035	C01	10	00015	547.9	341.9

NOTES: Activity reported in net dpm/100 cm<sup>2</sup>. Count times are reported in seconds.  
Underlined values exceed the MDA.  
Bold values exceed 2000 dpm/100 cm<sup>2</sup>.  
25 results are listed.



## Maine Yankee Atomic Power Plant Site Characterization

## DOWNLOAD FILE & SURVEY INSTRUMENTATION CALIBRATION SUMMARY

03/22/98

## Direct Measurements For Total Beta Activity

Survey Package : B1800 SURFACES & STRUCTURES  
Spare Generator Building - Elevation 1

SURVEY DATE	FILE #	M2350		DETECTOR			PRE EFF	TECHNICIAN
		INST S/N	CAL DUE	MODEL	S/N	CAL DUE		
12/30/97	225 (2)	098639	4/16/98	43-106	133876	4/30/98	.22	JJP1813
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
12/30/97	228 (2)	129433	6/10/98	43-106	133864	6/5/98	.21	MAW9813
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
12/31/97	236 (2)	126206	3/27/98	43-106	133860	3/30/98	.21	LAC4593
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
12/31/97	237 (2)	098639	4/16/98	43-106	133876	4/30/98	.21	JJP1813
CALIBRATION DATES VERIFIED AS ACCEPTABLE								



Maine Yankee Atomic Power Plant Site Characterization

03/22/98

Removable Contamination - Gross Beta Activity

Survey Package B1800 SURFACES & STRUCTURES  
Spare Generator Building - Elevation 1

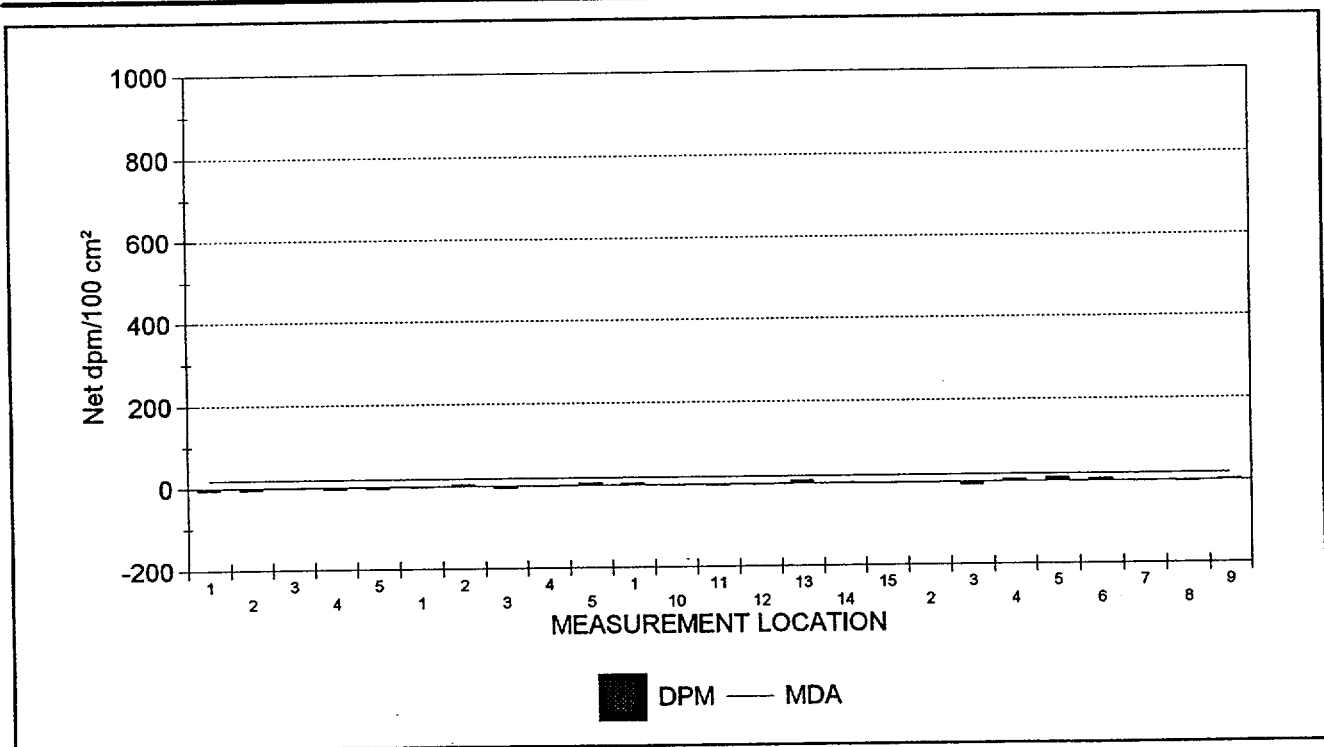
STATISTICAL SUMMARY

TESTS PERFORMED

	Net dpm/100 cm <sup>2</sup>
Mean	0.1
Maximum	9.3
Minimum	-7.5
Standard Deviation	4.6
MDA	17.8

Samples reported satisfy samples prescribed	YES
MDA < 100 net dpm/100 cm <sup>2</sup>	YES
Results above 100 net dpm/100 cm <sup>2</sup>	0
Number of results above MDA	0

Samples Reported	25
Samples Prescribed	25



25 RESULTS ARE GRAPHED



Maine Yankee Atomic Power Plant Site Characterization

03/22/98

Removable Contamination - Gross Alpha Activity

Survey Package B1800 SURFACES & STRUCTURES  
Spare Generator Building - Elevation 1

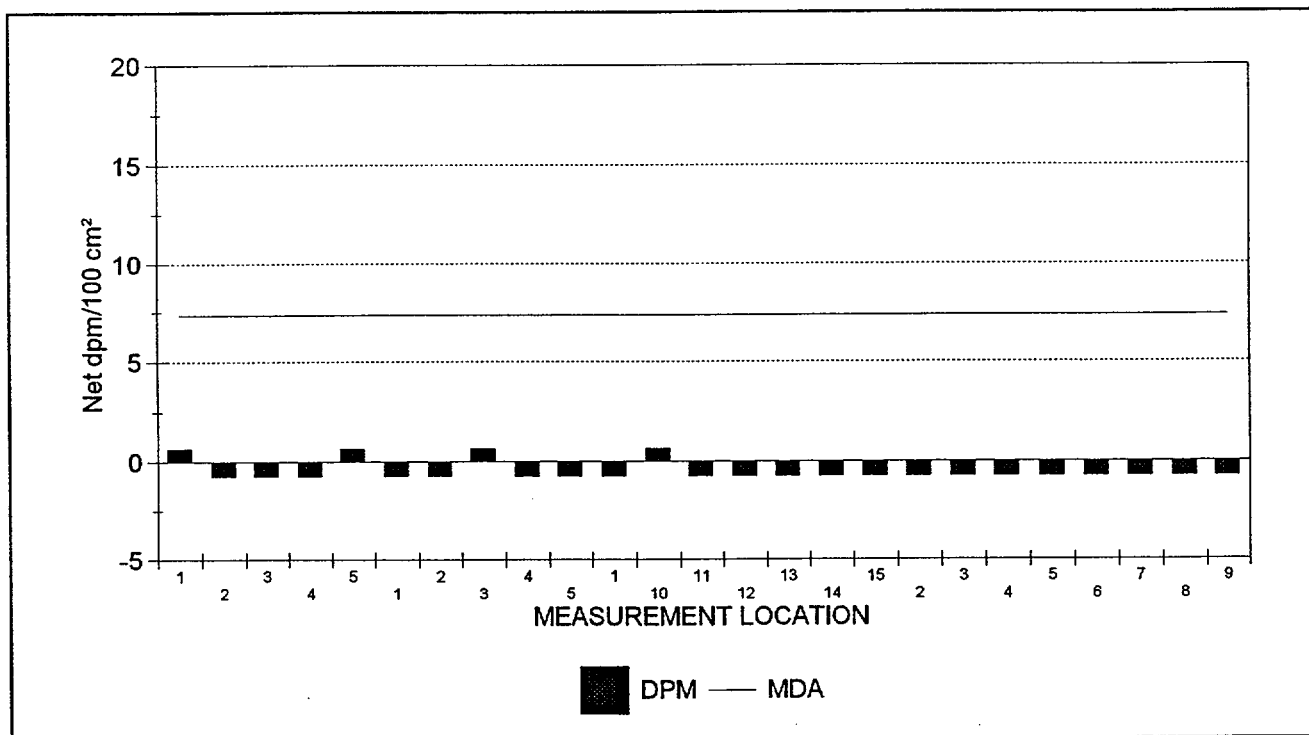
STATISTICAL SUMMARY

TESTS PERFORMED

	Net dpm/100 cm <sup>2</sup>
Mean	-0.5
Maximum	0.7
Minimum	-0.8
Standard Deviation	0.5
MDA	7.3

Samples reported satisfy samples prescribed	YES
MDA <10 net dpm/100 cm <sup>2</sup>	YES
Results above 20 net dpm/100 cm <sup>2</sup>	0
Number of results above MDA	0

Samples Reported	25
Samples Prescribed	25



25 RESULTS ARE GRAPHED



## Maine Yankee Atomic Power Plant Site Characterization

03/22/98

## Removable Contamination

Survey Package : B1800 SURFACES & STRUCTURES  
Spare Generator Building - Elevation 1

## RESULTS LISTING - SORTED BY SURFACE CODE

XLS FILE	UNIT	SURFACE	REASON	COUNT	MSRMNT	ALPHA	BETA
				TIME	LOCATION		
SME1B047.XLS	01	WS1	C01	2	9	-0.8	2.6
SME1B047.XLS	01	WS1	C01	2	8	-0.8	-2.5
SME1B047.XLS	01	WS1	C01	2	7	-0.8	-0.8
SME1B047.XLS	01	WS1	C01	2	6	-0.8	5.9
SME1B047.XLS	01	WS1	C01	2	5	-0.8	9.3
SME1B047.XLS	01	WS1	C01	2	4	-0.8	5.9
SME1B047.XLS	01	WS1	C01	2	3	-0.8	-7.5
SME1B047.XLS	01	WS1	C01	2	2	-0.8	-0.8
SME1B047.XLS	01	WS1	C01	2	15	-0.8	-0.8
SME1B047.XLS	01	WS1	C01	2	14	-0.8	0.9
SME1B047.XLS	01	WS1	C01	2	13	-0.8	7.6
SME1B047.XLS	01	WS1	C01	2	12	-0.8	-0.8
SME1B047.XLS	01	WS1	C01	2	11	-0.8	-2.5
SME1B047.XLS	01	WS1	C01	2	10	0.7	-0.8
SME1B047.XLS	01	WS1	C01	2	1	-0.8	4.3
SME1B047.XLS	01	EQ1	C01	2	5	-0.8	5.9
SME1B047.XLS	01	EQ1	C01	2	4	-0.8	-0.8
SME1B047.XLS	01	EQ1	C01	2	3	0.7	-5.8
SME1B047.XLS	01	EQ1	C01	2	2	-0.8	4.3
SME1B047.XLS	01	EQ1	C01	2	1	-0.8	-0.8
SME1B047.XLS	01	CL1	C01	2	5	0.7	-4.1
SME1B047.XLS	01	CL1	C01	2	4	-0.8	-4.1
SME1B047.XLS	01	CL1	C01	2	3	-0.8	-0.8
SME1B047.XLS	01	CL1	C01	2	2	-0.8	-5.8
SME1B047.XLS	01	CL1	C01	2	1	0.7	-5.8

NOTES: Activity reported in net dpm/100 cm<sup>2</sup>. Count times are reported in minutes.

Underlined values exceed the associated MDA.

Bold values exceed 100.00 dpm/100 cm<sup>2</sup> (beta activity) and/or 20.00 dpm/100 cm<sup>2</sup> (alpha activity).

25 results are listed.



Maine Yankee Atomic Power Plant Site Characterization

DATAFILE & TENNELEC CALIBRATION SUMMARY

03/22/98

Removable Contamination

Survey Package : B1800 SURFACES & STRUCTURES  
Spare Generator Building - Elevation 1

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SURVEYDATE	XLS FILE	INST ID	S/N	CAL DUE	LAB TECHNICIAN
2/12/98	SME1B047.XLS	1	14131	8/7/98	SNM

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CALIBRATION DATE VERIFIED AS ACCEPTABLE

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Maine Yankee Atomic Power Plant Site Characterization

GAMMA SPECTRAL ANALYSIS RESULTS LISTING

03/28/98

OUTPUT BATCH SN = 233

Survey Package B1800 SURFACES & STRUCTURES  
Spare Generator Building - Elevation 1

UNIT : 01 SURFACE : OA1 REASON : C01

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth  
SAMPLE LOCATOR: 00001-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY454	ENV00165	1,570.0	1200	Co-57	< .1	0.1	0.0
				Co-60	< .1	0.1	0.0
				Cs-134	< .1	0.1	0.0
				Cs-137	< .1	0.1	0.0
				K-40	21.10	0.5	1.8
				Mn-54	< .1	0.1	0.0

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth  
SAMPLE LOCATOR: 00002-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY455	ENV00166	1,830.0	1200	Co-57	< .1	0.1	0.0
				Co-60	< .1	0.1	0.0
				Cs-134	< .1	0.1	0.0
				Cs-137	< .1	0.1	0.0
				K-40	19.80	0.4	1.7
				Mn-54	< .1	0.1	0.0

SAMPLE TYPE OR SURFACE SAMPLED: Surface Soil Sample @ 0"-6" Depth  
SAMPLE LOCATOR: 00003-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY456	ENV00167	1,590.0	1200	Co-57	< .1	0.1	0.0
				Co-60	< .1	0.1	0.0
				Cs-134	< .1	0.1	0.0
				Cs-137	< .1	0.1	0.0
				K-40	20.50	0.5	1.8
				Mn-54	< .1	0.1	0.0



## Maine Yankee Atomic Power Plant Site Characterization

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 CHARACTERIZATION SUMMARY
 

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06/03/98

SURVEY PACKAGE NUMBER :B1900

SURFACES &amp; STRUCTURES

PACKAGE DESCRIPTION

Environmental Services Building - All Elevations

SURVEY AREA DESCRIPTION

Environmental Services Building

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 GENERAL HISTORICAL INFORMATION (Operational history, etc.)

The Environmental Services Building is an old, three-story (basement, ground floor and attic) farmhouse converted to office and lab spaces for the Environmental Services department. A room was set up with shielded smear counting instrumentation. The kitchen area contains a fume hood. The attic is used as clean storage. The basement has a dirt floor and is used for sample storage. The building is constructed of wood frame and siding covered with vinyl, brick and rock foundation and hardwood floors.

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 SUMMARY OF CHARACTERIZATION ACTIVITIES

Survey units were established for the areas as shown in the following Summary of Survey Units. Maps with the survey measurement locations for this package are included on the following pages.

Performed a scan of approximately five square meters at 28 survey measurement locations indicated on the survey map(s). This was approximately 10% of the accessible surface area.

Collected direct measurements for total beta activity at 28 survey measurement locations at the highest location identified in the scan. If an elevated location was not observed, the measurement was collected at an arbitrary location, selected by the technician, within the five square meter scanned area.

Collected smear samples to analyze for removable alpha and beta activity at 26 survey location of direct measurements for total beta activity.

Collected one meter gamma exposure rate measurements at 12 survey locations for direct measurements for total beta activity on floor surfaces.

Collected soil samples from 2 locations on the basement dirt floor for gamma spectral analysis. For survey unit 01 the surface code "FL1" was used to describe the locations for the samples for gamma spectrum analysis. The samples were 0-6" surface soil samples collected from the basements' dirt floor surface.

The survey result statistical summaries, graphs and results listings are shown in the following individual reports including calibration summaries for the instruments used for each measurement type.

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 CHARACTERIZATION SURVEY RESULTS

- o There were 5 direct measurements for total beta activity above MDA (682 dpm/100cm<sup>2</sup>) and 3 results greater than 2000 dpm/100cm<sup>2</sup>. The maximum measurement result was 6,524 dpm/100cm<sup>2</sup>.
- o There were no measurements for removable beta activity above MDA (17.8 dpm/100cm<sup>2</sup>).
- o There were no measurements for removable alpha activity above MDA (7.3 dpm/100cm<sup>2</sup>).
- o The average and maximum one meter exposure rate measurement results were 9.4 µR/hr and 16.1 µR/hr respectively.
- o The 2 samples gamma spectral analysis results indicated no plant-derived radionuclide activity above MDA.





Maine Yankee Atomic Power Plant Site Characterization

SUMMARY OF SURVEY UNIT(S)

03/22/98

OUTPUT BATCH SN = 205

**PACKAGE B1900 SURFACES & STRUCTURES**  
 Environmental Services Building - All Elevations

UNIT(S)	SURFACE(S)
01 - Basement	FL1 (Floor) WC1 (Walls and Ceiling)
02 - Ground Floor	FL1 (Floor) FW1 (Bathroom) M01 (Fume Hood) SW1 (Stairway) WC1 (Walls and Ceiling)
03 - Attic	FL1 (Floor) WC1 (Walls and Ceiling)

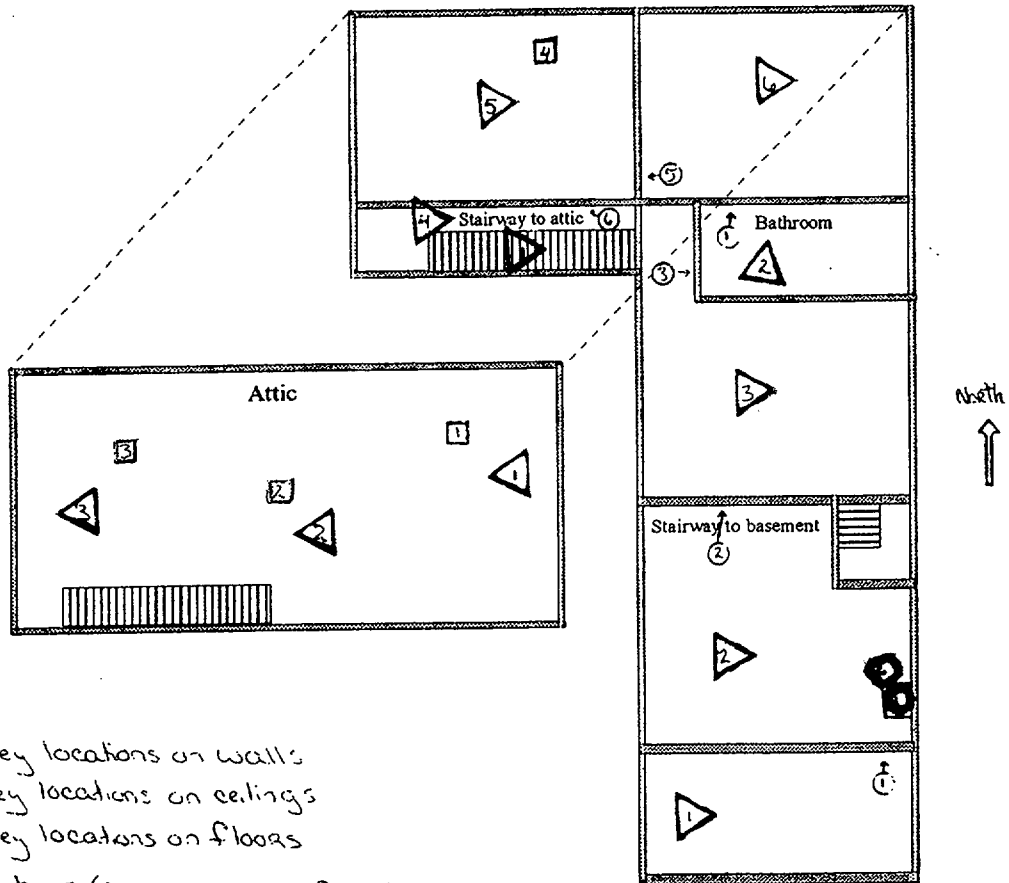
**REASON(S) CHARACTERIZATION SURVEY (C01)**

MATERIALS	MAT'L CODE	MATERIAL DESCRIPTION	BETA BKGD (dpm/100 cm <sup>2</sup> )
	B0002	CONCRETE - BARE (INTERIOR)	665.0
	B0006	SOIL / SURFACE	0.0
	B0025	WOOD - PAINTED	0.0
	B0033	CEILING TILE - FIBERBOARD	0.0
	B0035	DRYWALL - PAINTED	0.0
	B0036	METAL - PAINTED	0.0
	B0048	WOOD (BARE)	0.0
	B0049	CARPET (OVER WOOD)	0.0
	B0050	VINYL (OVER WOOD)	0.0
	B9999	OTHER	0.0
	G0024	WOOD - GAMMA	0.0

Maine Yankee Atomic Power Plant Site Characterization

SURVEY PACKAGE B1900

**Environmental Services Building**  
Ground Floor and Attic

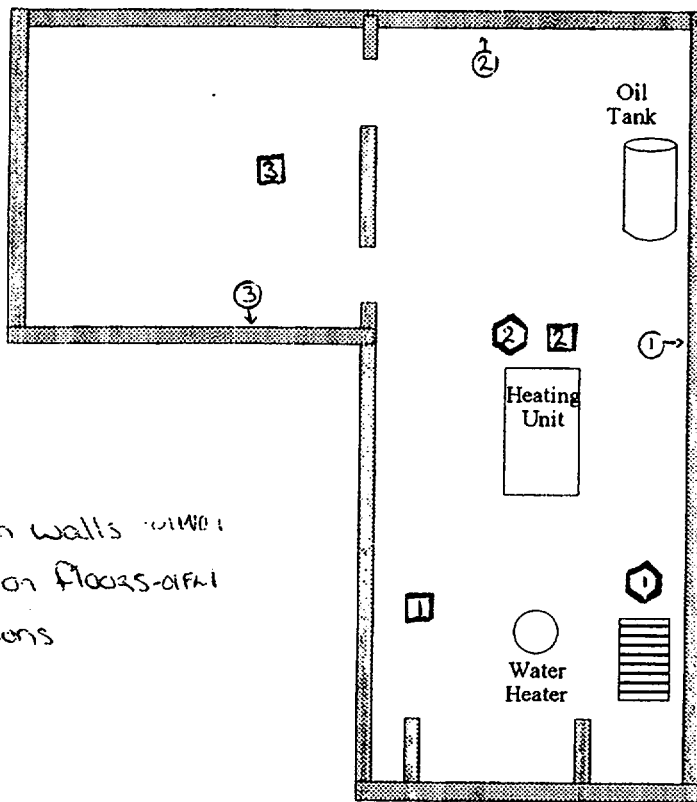


B19 -

- ⊙ - survey locations on walls
- ⊠ - survey locations on ceilings
- △ - survey locations on floors
- - fume hood (All internal surfaces)

Bathroom - 02FW1 floors and walls  
Ground floor - 02W1 walls and ceiling

### Environmental Services Building Basement



B19 -

- ⊕ - survey locations on walls
- ⊞ - survey locations on floors
- ⊠ - soil sample locations





Maine Yankee Atomic Power Plant Site Characterization

03/22/98

Direct Measurements For Total Beta Activity

Survey Package B1900 SURFACES & STRUCTURES  
Environmental Services Building - All Elevations

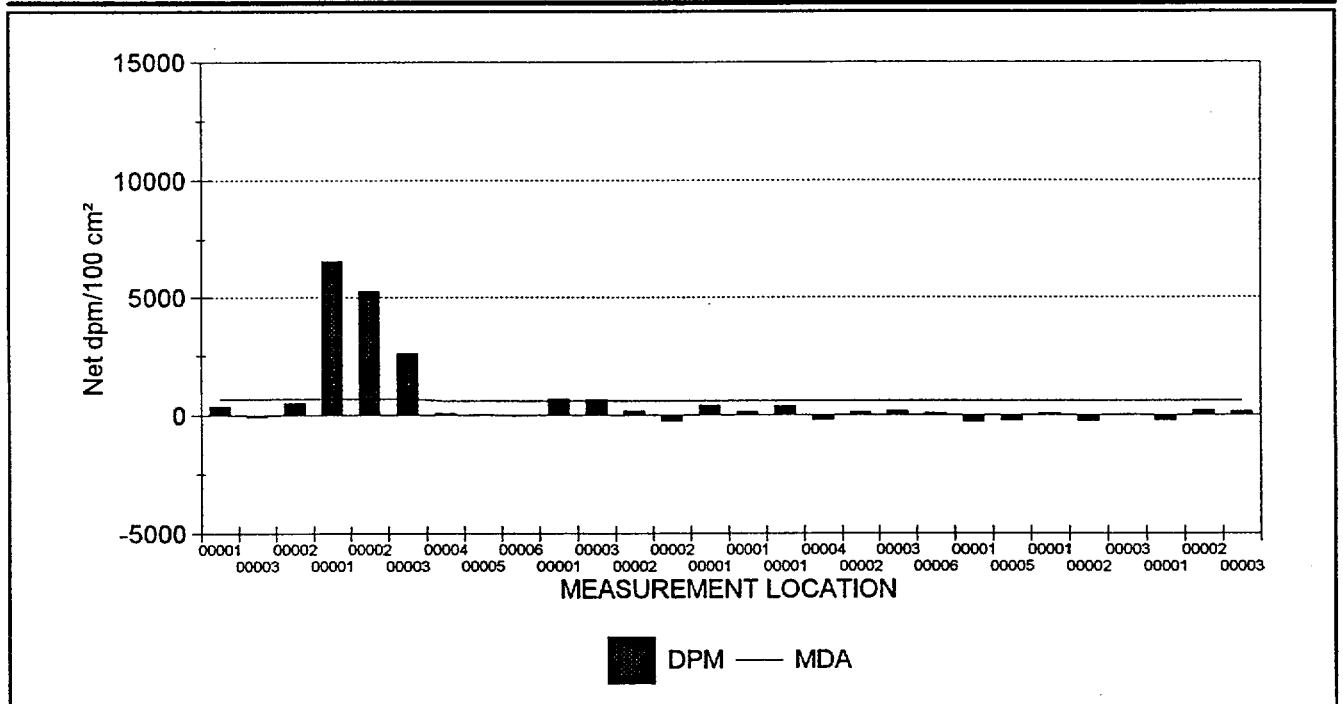
STATISTICAL SUMMARY

TESTS PERFORMED

	Net dpm/100 cm <sup>2</sup>
Mean	612.3
Maximum	6,523.7
Minimum	-284.0
Standard Deviation	1,595.1
MDA	681.6

Samples reported satisfy samples prescribed	YES
MDA <2000 net dpm/100 cm <sup>2</sup>	YES
Results above 2000 net dpm/100 cm <sup>2</sup>	3
Number of results above MDA	5

Samples Reported	28
Samples Prescribed	28



28 RESULTS ARE GRAPHED



## Maine Yankee Atomic Power Plant Site Characterization

03/22/98

## Direct Measurements For Total Beta Activity

Survey Package : B1900 SURFACES & STRUCTURES  
 Environmental Services Building - All Elevations

## RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	MDA	RESULT
73 (2)	01	FL1	B0002	C01	10	00001	681.6	392.4
73 (2)	01	FL1	B0002	C01	10	00003	681.6	-70.5
73 (2)	01	FL1	B0006	C01	10	00002	681.6	528.4
73 (2)	01	WC1	B9999	C01	10	00001	681.6	<b>6,523.7</b>
73 (2)	01	WC1	B9999	C01	10	00002	681.6	<b>5,267.3</b>
73 (2)	01	WC1	B9999	C01	10	00003	681.6	<b>2,578.2</b>
70 (2)	02	FL1	B0048	C01	10	00004	595.8	68.5
70 (2)	02	FL1	B0048	C01	10	00005	595.8	24.5
70 (2)	02	FL1	B0048	C01	10	00006	595.8	-19.6
70 (2)	02	FL1	B0049	C01	10	00001	595.8	<u>685.4</u>
70 (2)	02	FL1	B0049	C01	10	00003	595.8	<u>663.4</u>
70 (2)	02	FL1	B0050	C01	10	00002	595.8	178.7
70 (2)	02	FW1	B0035	C01	10	00002	595.8	-261.9
70 (2)	02	FW1	B0050	C01	10	00001	595.8	421.0
70 (2)	02	M01	B0036	C01	10	00001	595.8	156.7
70 (2)	02	SW1	B0025	C01	10	00001	595.8	399.0
70 (2)	02	WC1	B0033	C01	10	00004	595.8	-195.8
70 (2)	02	WC1	B0035	C01	10	00002	595.8	134.6
70 (2)	02	WC1	B0035	C01	10	00003	595.8	178.7
70 (2)	02	WC1	B0035	C01	10	00006	595.8	68.5
70 (2)	02	WC1	B0048	C01	10	00001	595.8	-283.9
70 (2)	02	WC1	B9999	C01	10	00005	595.8	-239.9
70 (2)	03	FL1	B0048	C01	10	00001	595.8	68.5
70 (2)	03	FL1	B0048	C01	10	00002	595.8	-261.9
70 (2)	03	FL1	B0048	C01	10	00003	595.8	24.5
70 (2)	03	WC1	B0048	C01	10	00001	595.8	-239.9
70 (2)	03	WC1	B0048	C01	10	00002	595.8	200.7
70 (2)	03	WC1	B0048	C01	10	00003	595.8	156.7

NOTES: Activity reported in net dpm/100 cm<sup>2</sup>. Count times are reported in seconds.  
 Underlined values exceed the MDA.  
 Bold values exceed 2000 dpm/100 cm<sup>2</sup>.  
 28 results are listed.



## Maine Yankee Atomic Power Plant Site Characterization

## DOWNLOAD FILE & SURVEY INSTRUMENTATION CALIBRATION SUMMARY

03/22/98

Direct Measurements For Total Beta Activity

Survey Package : B1900 SURFACES & STRUCTURES  
 Environmental Services Building - All Elevations

SURVEY DATE	FILE #	M2350		DETECTOR			PRE EFF	TECHNICIAN
		INST S/N	CAL DUE	MODEL	S/N	CAL DUE		
12/2/97	70 (2)	126175	5/7/98	43-106	133881	4/30/98	.22	GLL9768
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
12/3/97	73 (2)	126175	5/7/98	43-106	133881	4/30/98	.22	GLL9768
CALIBRATION DATES VERIFIED AS ACCEPTABLE								



Maine Yankee Atomic Power Plant Site Characterization

03/22/98

Removable Contamination - Gross Beta Activity

Survey Package B1900 SURFACES & STRUCTURES  
Environmental Services Building - All Elevations

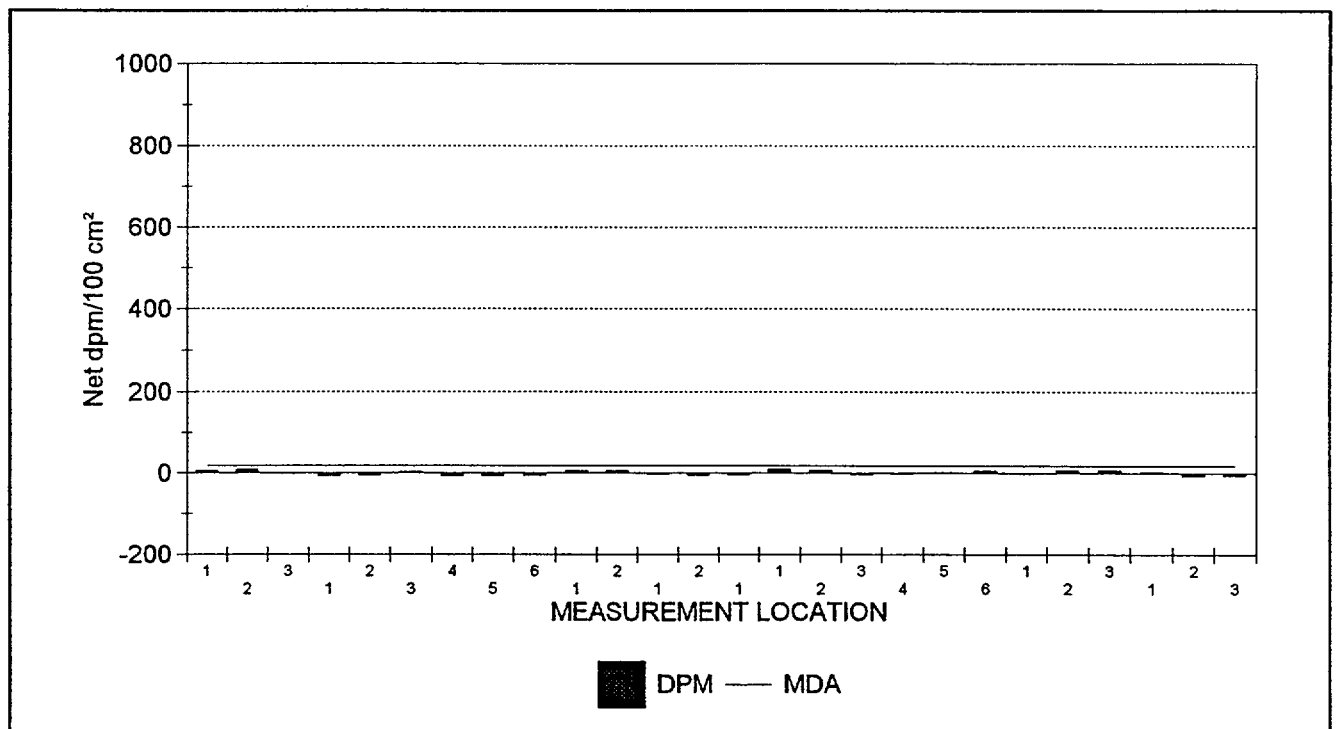
STATISTICAL SUMMARY

TESTS PERFORMED

	Net dpm/100 cm <sup>2</sup>
Mean	0.3
Maximum	11.0
Minimum	-7.5
Standard Deviation	6.1
MDA	17.8

Samples reported satisfy samples prescribed	YES
MDA <100 net dpm/100 cm <sup>2</sup>	YES
Results above 100 net dpm/100 cm <sup>2</sup>	0
Number of results above MDA	0

Samples Reported	26
Samples Prescribed	25



26 RESULTS ARE GRAPHED



Maine Yankee Atomic Power Plant Site Characterization

03/22/98

Removable Contamination - Gross Alpha Activity

Survey Package B1900 SURFACES & STRUCTURES  
Environmental Services Building - All Elevations

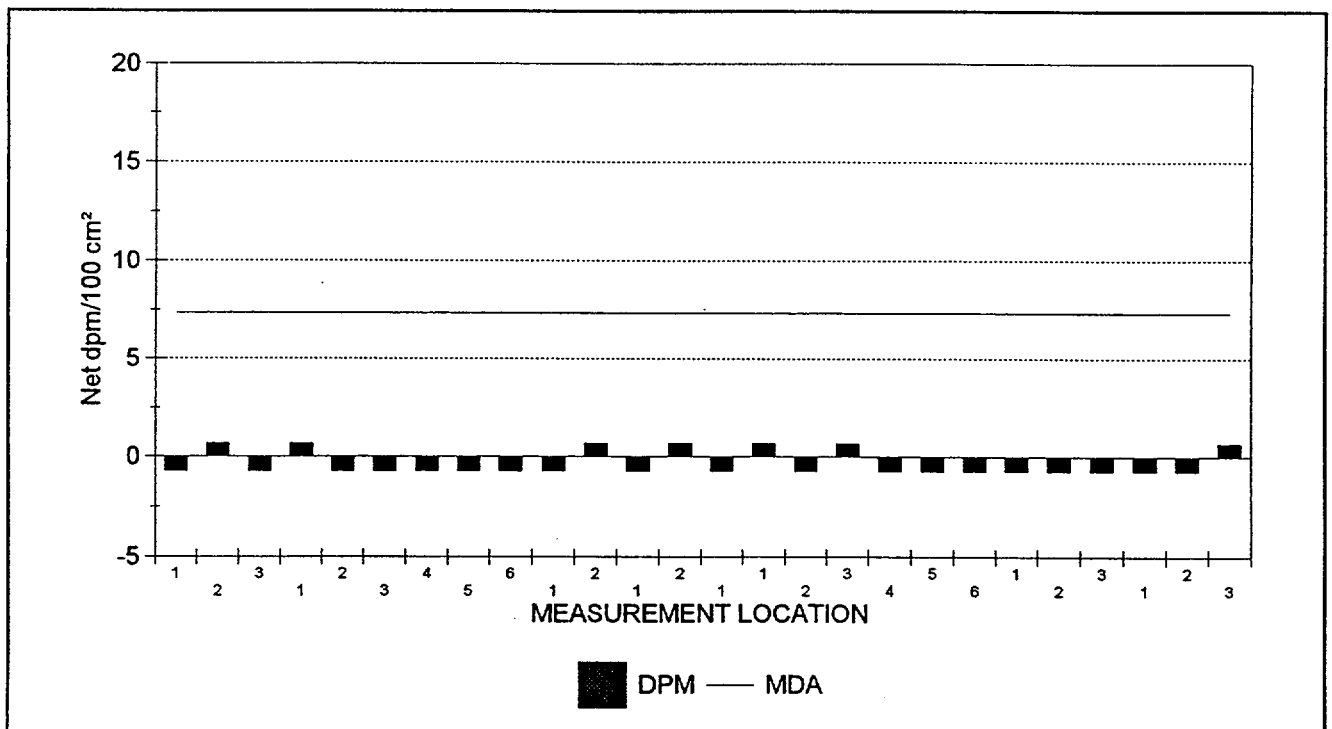
STATISTICAL SUMMARY

TESTS PERFORMED

	Net dpm/100 cm <sup>2</sup>
Mean	-0.4
Maximum	0.7
Minimum	-0.8
Standard Deviation	0.6
MDA	7.3

Samples reported satisfy samples prescribed	YES
MDA < 10 net dpm/100 cm <sup>2</sup>	YES
Results above 20 net dpm/100 cm <sup>2</sup>	0
Number of results above MDA	0

Samples Reported	26
Samples Prescribed	25



26 RESULTS ARE GRAPHED





## Maine Yankee Atomic Power Plant Site Characterization

03/22/98

## Removable Contamination

Survey Package : B1900 SURFACES & STRUCTURES  
 Environmental Services Building - All Elevations

## RESULTS LISTING - SORTED BY SURFACE CODE

XLS FILE	UNIT	SURFACE	REASON	COUNT	MSRMNT	ALPHA	BETA
				TIME	LOCATION		
SME1B048.XLS	03	WC1	C01	2	3	0.7	-5.8
SME1B048.XLS	03	WC1	C01	2	2	-0.8	-7.5
SME1B048.XLS	03	WC1	C01	2	1	-0.8	2.6
SME1B048.XLS	03	FL1	C01	2	3	-0.8	7.6
SME1B048.XLS	03	FL1	C01	2	2	-0.8	7.6
SME1B048.XLS	03	FL1	C01	2	1	-0.8	-0.8
SME1B048.XLS	02	WC1	C01	2	6	-0.8	5.9
SME1B048.XLS	02	WC1	C01	2	5	-0.8	0.9
SME1B048.XLS	02	WC1	C01	2	4	-0.8	-0.8
SME1B048.XLS	02	WC1	C01	2	3	0.7	-2.5
SME1B048.XLS	02	WC1	C01	2	2	-0.8	7.6
SME1B048.XLS	02	WC1	C01	2	1	0.7	11.0
SME1B048.XLS	02	SW1	C01	2	1	-0.8	-4.1
SME1B048.XLS	02	M01	C01	2	2	0.7	-5.8
SME1B048.XLS	02	M01	C01	2	1	-0.8	-2.5
SME1B048.XLS	02	FW1	C01	2	2	0.7	5.9
SME1B048.XLS	02	FW1	C01	2	1	-0.8	5.9
SME1B048.XLS	02	FL1	C01	2	6	-0.8	-5.8
SME1B048.XLS	02	FL1	C01	2	5	-0.8	-7.5
SME1B048.XLS	02	FL1	C01	2	4	-0.8	-7.5
SME1B048.XLS	02	FL1	C01	2	3	-0.8	2.6
SME1B048.XLS	02	FL1	C01	2	2	-0.8	-5.8
SME1B048.XLS	02	FL1	C01	2	1	0.7	-7.5
SME1B048.XLS	01	WC1	C01	2	3	-0.8	-0.8
SME1B048.XLS	01	WC1	C01	2	2	0.7	9.3
SME1B048.XLS	01	WC1	C01	2	1	-0.8	5.9

NOTES: Activity reported in net dpm/100 cm<sup>2</sup>. Count times are reported in minutes.

Underlined values exceed the associated MDA.

Bold values exceed 100.00 dpm/100 cm<sup>2</sup> (beta activity) and/or 20.00 dpm/100 cm<sup>2</sup> (alpha activity).

26 results are listed.



Maine Yankee Atomic Power Plant Site Characterization

DATAFILE & TENNELEC CALIBRATION SUMMARY

03/22/98

Removable Contamination

Survey Package : B1900 SURFACES & STRUCTURES  
Environmental Services Building - All Elevations

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SURVEYDATE	XLS FILE	INST ID	S/N	CAL DUE	LAB TECHNICIAN
2/12/98	SME1B048.XLS	1	14131	8/7/98	SNM

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CALIBRATION DATE VERIFIED AS ACCEPTABLE

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Maine Yankee Atomic Power Plant Site Characterization

03/22/98

Gamma Exposure Rate Measurements At 1 Meter

Survey Package B1900 SURFACES & STRUCTURES  
Environmental Services Building - All Elevations

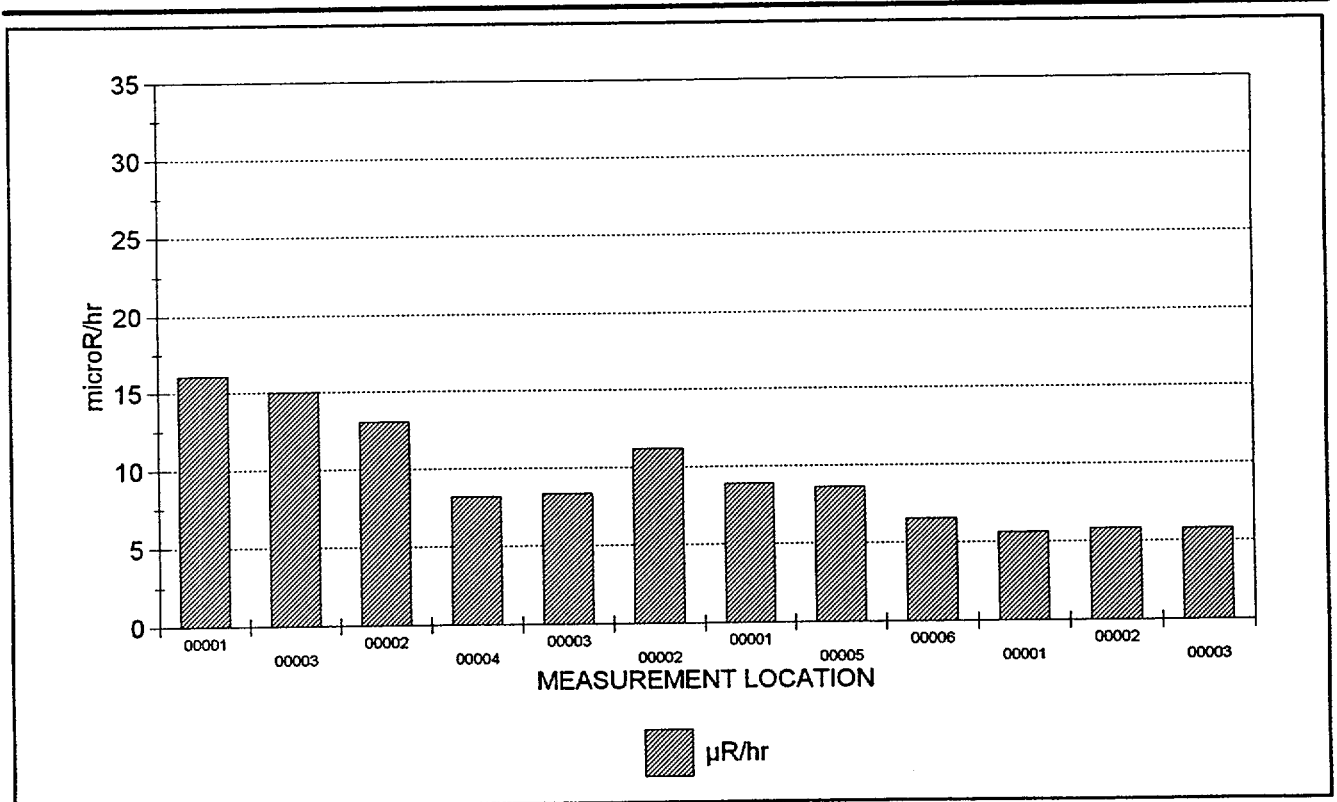
STATISTICAL SUMMARY

TESTS PERFORMED

	$\mu\text{R/hr}$
Mean	9.4
Maximum	16.1
Minimum	5.6
Standard Deviation	3.6

Samples reported satisfy samples prescribed	YES
---------------------------------------------	-----

Samples Reported	12
Samples Prescribed	12



12 RESULTS ARE GRAPHED



## Maine Yankee Atomic Power Plant Site Characterization

03/22/98

## Gamma Exposure Rate Measurements At 1 Meter

Survey Package : B1900 SURFACES & STRUCTURES  
 Environmental Services Building - All Elevations

## RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	RESULT
72 (2)	01	FL1	B0002	C01	60.00	00001	<b>16.1</b>
72 (2)	01	FL1	B0002	C01	60.00	00003	15.0
72 (2)	01	FL1	B0006	C01	60.00	00002	13.1
69 (2)	02	FL1	B0048	C01	60.00	00004	8.2
69 (2)	02	FL1	B0049	C01	60.00	00003	8.3
69 (2)	02	FL1	B0050	C01	60.00	00002	11.2
69 (2)	02	FL1	G0024	C01	60.00	00001	8.9
69 (2)	02	FL1	G0024	C01	60.00	00005	8.6
69 (2)	02	FL1	G0024	C01	60.00	00006	6.6
74 (2)	03	FL1	B0048	C01	60.00	00001	5.6
74 (2)	03	FL1	B0048	C01	60.00	00002	5.8
74 (2)	03	FL1	B0048	C01	60.00	00003	5.8

NOTES: Exposure rates reported in net  $\mu\text{R/hr}$ . Count times are reported in seconds.  
 Underlined results did not meet the minimum required count time.  
 Bold values exceed 15  $\mu\text{R/hr}$ .  
 12 results are listed.



## Maine Yankee Atomic Power Plant Site Characterization

## DOWNLOAD FILE & SURVEY INSTRUMENTATION CALIBRATION SUMMARY

03/22/98

Gamma Exposure Rate Measurements At 1 Meter

Survey Package : B1900 SURFACES & STRUCTURES  
 Environmental Services Building - All Elevations

SURVEY DATE	FILE #	M2350		DETECTOR			TECHNICIAN
		INST S/N	CAL DUE	MODEL	S/N	CAL DUE	
12/2/97	69 (2)	126196	4/15/98	44-2	095100	4/19/98	DJH2236
CALIBRATION DATES VERIFIED AS ACCEPTABLE							
12/3/97	72 (2)	126196	4/15/98	44-2	095100	4/19/98	DJH2236
CALIBRATION DATES VERIFIED AS ACCEPTABLE							
12/3/97	74 (2)	126196	4/15/98	44-2	095100	4/19/98	DJH2236
CALIBRATION DATES VERIFIED AS ACCEPTABLE							



## Maine Yankee Atomic Power Plant Site Characterization

## GAMMA SPECTRAL ANALYSIS RESULTS LISTING

03/29/98

OUTPUT BATCH SN = 242

Survey Package B1900 SURFACES & STRUCTURES  
Environmental Services Building - All Elevations

UNIT : 01 SURFACE : FL1 REASON : C01

SAMPLE TYPE OR SURFACE SAMPLED: Floor Surface  
SAMPLE LOCATOR: 00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY258	ENV00049	1,550.0	1200	Co-57	< .1	0.1	0.0
				Co-60	< .1	0.1	0.0
				Cs-134	.06	0.1	0.0
				Cs-137	< 0.0	0.0	0.0
				K-40	19.60	0.6	1.9
				Mn-54	< .1	0.1	0.0

SAMPLE TYPE OR SURFACE SAMPLED: Floor Surface  
SAMPLE LOCATOR: 00002

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY259	ENV00049	1,470.0	1200	Co-57	< .1	0.1	0.0
				Co-60	< .1	0.1	0.0
				Cs-134	< .1	0.1	0.0
				Cs-137	< .1	0.1	0.0
				K-40	18.60	0.5	1.6
				Mn-54	< .1	0.1	0.0



## Maine Yankee Atomic Power Plant Site Characterization

## CHARACTERIZATION SUMMARY

04/01/98

SURVEY PACKAGE NUMBER :B2000

SURFACES &amp; STRUCTURES

PACKAGE DESCRIPTION

Bailey Barn - Elevation 1

SURVEY AREA DESCRIPTION

Bailey Barn

## GENERAL HISTORICAL INFORMATION (Operational history, etc.)

The Bailey Barn is an outbuilding, located adjacent to the Environmental Sciences Building, used as a storage building for farm equipment, chemicals, and flammables. The building has wood frame walls and ceiling with wood siding, and a concrete floor. Aluminum siding has been added to the exterior walls.

## SUMMARY OF CHARACTERIZATION ACTIVITIES

Survey units were established for the areas as shown in the following Summary of Survey Units. Maps with the survey measurement locations for this package are included on the following pages.

Performed a scan of approximately five square meters at 36 survey measurement locations indicated on the survey map(s). This was approximately 10% of the accessible surface area.

Collected direct measurements for total beta activity at 36 survey measurement locations at the highest location identified in the scan. If an elevated location was not observed, the measurement was collected at an arbitrary location, selected by the technician, within the five square meter scanned area.

Collected smear samples to analyze for removable alpha and beta activity at 36 survey locations of direct measurements for total beta activity within the five square meter scanned area.

Collected one meter gamma exposure rate measurements at 15 survey locations for direct measurements for total beta activity on floor surfaces.

The survey result statistical summaries, graphs and results listings are shown in the following individual reports including calibration summaries for the instruments used for each measurement type.

## CHARACTERIZATION SURVEY RESULTS

- o There were no direct measurements for total beta activity above MDA (592 dpm/100cm<sup>2</sup>).
- o There were no measurements for removable beta activity above MDA (17.8 dpm/100cm<sup>2</sup>).
- o There were no measurements for removable alpha activity above MDA (7.3 dpm/100cm<sup>2</sup>).
- o The average and maximum one meter exposure rate measurement results were 9.2 µR/hr and 10.6 µR/hr respectively.

## REFERENCES (Documents, Interviews)



Maine Yankee Atomic Power Plant Site Characterization

SUMMARY OF SURVEY UNIT(S)

03/22/98

OUTPUT BATCH SN = 206

**PACKAGE B2000 SURFACES & STRUCTURES**  
Bailey Barn - Elevation 1

UNIT(S)	SURFACE(S)
01 - Bailey Barn	CL1 (Ceiling) FL1 (Floor) WS1 (Walls)
02 - Second Floor of Bailey Barn	CL1 (Ceiling) FL1 (Floor) WS1 (Walls)

**REASON(S) CHARACTERIZATION SURVEY (C01)**

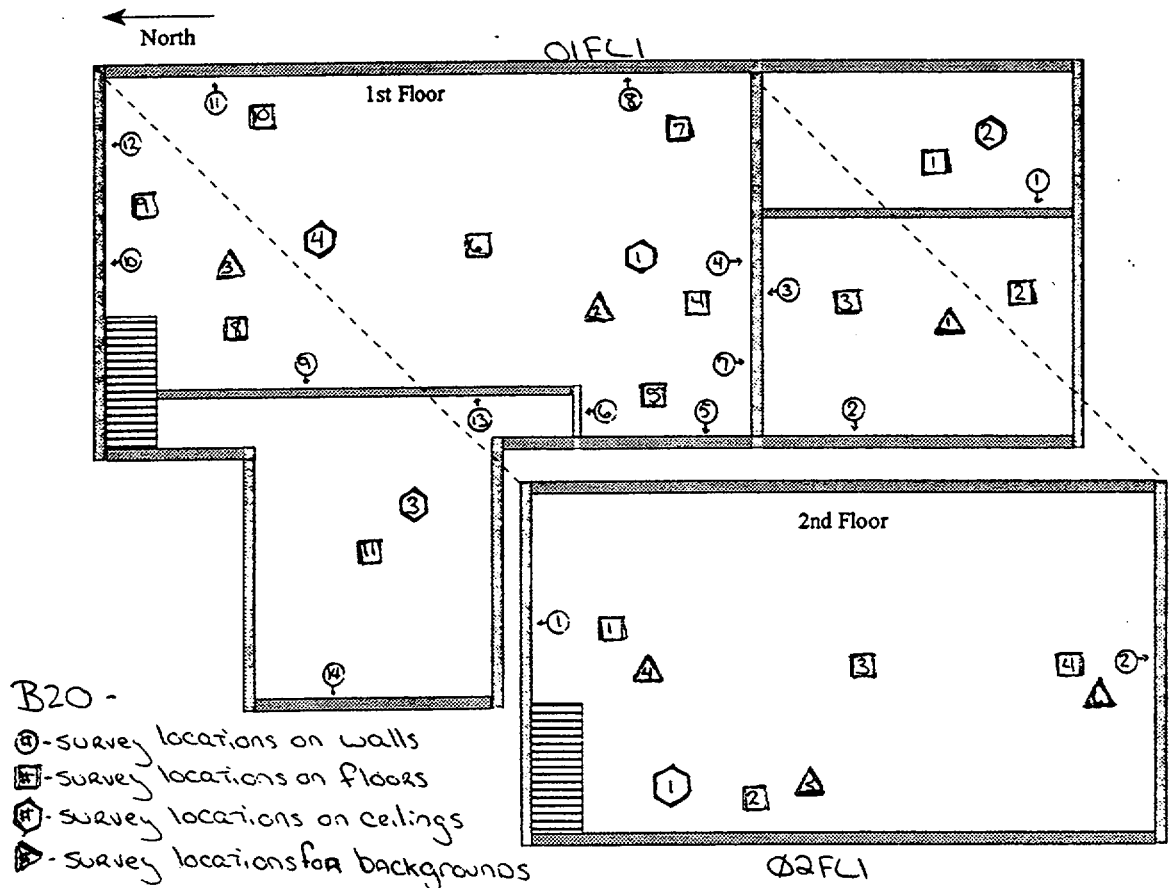
MATERIALS	MAT'L CODE	MATERIAL DESCRIPTION	BETA BKGD (dpm/100 cm <sup>2</sup> )
	B0002	CONCRETE - BARE (INTERIOR)	665.0
	B0016	ASPHALT	925.0
	B0025	WOOD - PAINTED	0.0
	B0048	WOOD (BARE)	0.0
	B9999	OTHER	0.0
	G0016	ASPHALT - GAMMA	0.0
	G0039	CONCRETE (BARE) - GAMMA	0.0



Maine Yankee Atomic Power Plant Site Characterization

SURVEY PACKAGE B2000

Bailey Barn





Maine Yankee Atomic Power Plant Site Characterization

03/22/98

Direct Measurements For Total Beta Activity

Survey Package B2000 SURFACES & STRUCTURES  
Bailey Barn - Elevation 1

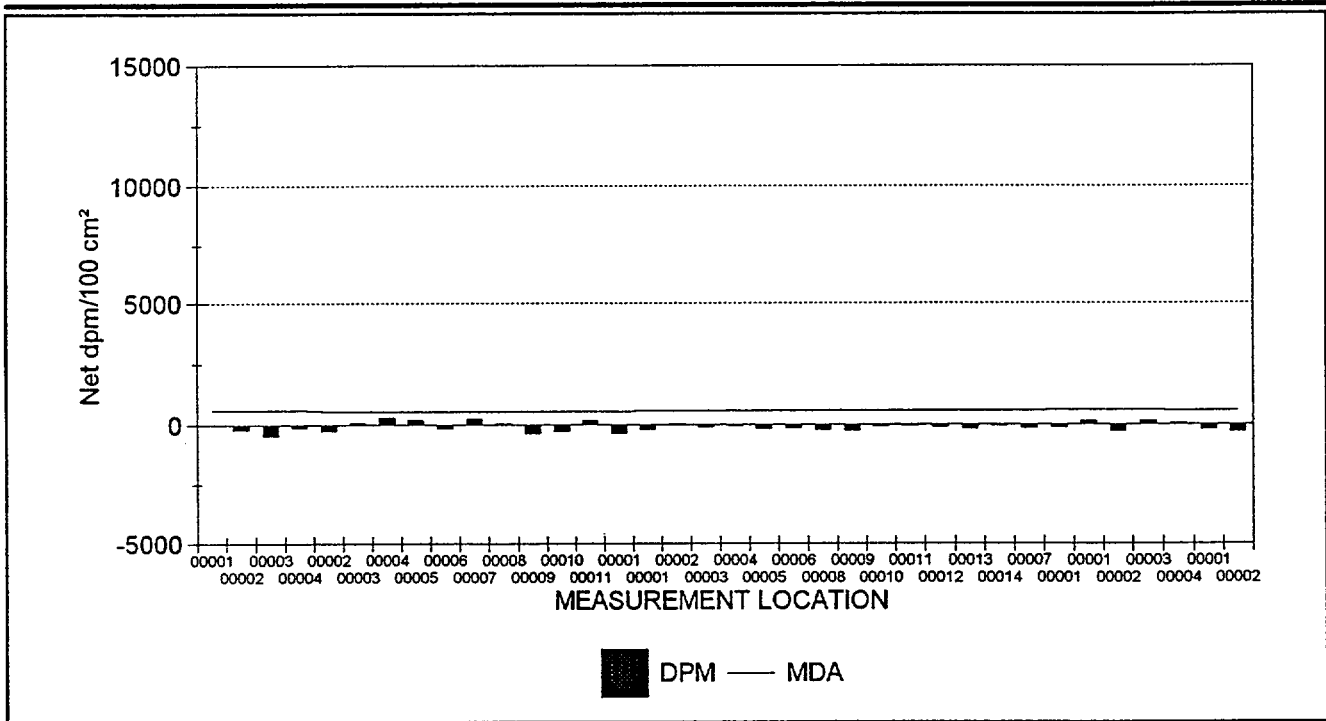
STATISTICAL SUMMARY

TESTS PERFORMED

	Net dpm/100 cm <sup>2</sup>
Mean	-96.6
Maximum	306.5
Minimum	-466.3
Standard Deviation	187.3
MDA	591.8

Samples reported satisfy samples prescribed	YES
MDA <2000 net dpm/100 cm <sup>2</sup>	YES
Results above 2000 net dpm/100 cm <sup>2</sup>	0
Number of results above MDA	0

Samples Reported	36
Samples Prescribed	36



36 RESULTS ARE GRAPHED



## Maine Yankee Atomic Power Plant Site Characterization

03/22/98

## Direct Measurements For Total Beta Activity

Survey Package : B2000 SURFACES & STRUCTURES  
Bailey Barn - Elevation 1

## RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	MDA	RESULT
80 (2)	01	CL1	B0048	C01	10	00001	591.8	12.7
80 (2)	01	CL1	B0048	C01	10	00002	591.8	-205.0
80 (2)	01	CL1	B0048	C01	10	00003	591.8	-466.3
80 (2)	01	CL1	B0048	C01	10	00004	591.8	-117.9
83 (2)	01	FL1	B0002	C01	10	00002	534.8	-262.0
83 (2)	01	FL1	B0002	C01	10	00003	534.8	79.1
83 (2)	01	FL1	B0002	C01	10	00004	534.8	306.5
83 (2)	01	FL1	B0002	C01	10	00005	534.8	215.6
83 (2)	01	FL1	B0002	C01	10	00006	534.8	-148.3
83 (2)	01	FL1	B0002	C01	10	00007	534.8	261.1
83 (2)	01	FL1	B0002	C01	10	00008	534.8	56.4
83 (2)	01	FL1	B0002	C01	10	00009	534.8	-352.9
83 (2)	01	FL1	B0002	C01	10	00010	534.8	-284.7
83 (2)	01	FL1	B0002	C01	10	00011	534.8	170.1
83 (2)	01	FL1	B0016	C01	10	00001	534.8	-362.8
89 (2)	01	WS1	B0025	C01	10	00001	568.0	-218.2
89 (2)	01	WS1	B0025	C01	10	00002	568.0	14.2
89 (2)	01	WS1	B0025	C01	10	00003	568.0	-102.0
89 (2)	01	WS1	B0048	C01	10	00004	568.0	-55.5
89 (2)	01	WS1	B0048	C01	10	00005	568.0	-195.0
89 (2)	01	WS1	B0048	C01	10	00006	568.0	-148.5
90 (2)	01	WS1	B0048	C01	10	00008	565.6	-225.7
90 (2)	01	WS1	B0048	C01	10	00009	565.6	-269.5
90 (2)	01	WS1	B0048	C01	10	00010	565.6	-72.4
90 (2)	01	WS1	B0048	C01	10	00011	565.6	-50.5
90 (2)	01	WS1	B0048	C01	10	00012	565.6	-94.3
90 (2)	01	WS1	B0048	C01	10	00013	565.6	-181.9
90 (2)	01	WS1	B0048	C01	10	00014	565.6	-50.5
89 (2)	01	WS1	B9999	C01	10	00007	568.0	-148.5
80 (2)	02	CL1	B0048	C01	10	00001	591.8	-139.7
80 (2)	02	FL1	B0048	C01	10	00001	591.8	143.3
80 (2)	02	FL1	B0048	C01	10	00002	591.8	-292.1
80 (2)	02	FL1	B0048	C01	10	00003	591.8	165.1
90 (2)	02	FL1	B0048	C01	10	00004	565.6	59.0
90 (2)	02	WS1	B0048	C01	10	00001	565.6	-203.8
90 (2)	02	WS1	B0048	C01	10	00002	565.6	-313.3

NOTES: Activity reported in net dpm/100 cm<sup>2</sup>. Count times are reported in seconds.

Underlined values exceed the MDA.

Bold values exceed 2000 dpm/100 cm<sup>2</sup>.

36 results are listed.



## Maine Yankee Atomic Power Plant Site Characterization

## DOWNLOAD FILE & SURVEY INSTRUMENTATION CALIBRATION SUMMARY

03/22/98

Direct Measurements For Total Beta Activity

Survey Package : B2000 SURFACES & STRUCTURES  
Bailey Barn - Elevation 1

SURVEY DATE	FILE #	M2350		DETECTOR			PRE EFF	TECHNICIAN
		INST S/N	CAL DUE	MODEL	S/N	CAL DUE		
12/3/97	80 (2)	098639	4/16/98	43-106	133876	4/30/98	.22	JJP1813
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
12/3/97	83 (2)	080498	4/8/98	43-68	PR075149	4/8/98	.21	CWI5440
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
12/4/97	89 (2)	080498	4/8/98	43-68	PR075149	4/8/98	.20	CWI5440
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
12/4/97	90 (2)	098639	4/16/98	43-106	133876	4/30/98	.22	JJP1813
CALIBRATION DATES VERIFIED AS ACCEPTABLE								



Maine Yankee Atomic Power Plant Site Characterization

03/22/98

Removable Contamination - Gross Beta Activity

Survey Package B2000 SURFACES & STRUCTURES  
Bailey Barn - Elevation 1

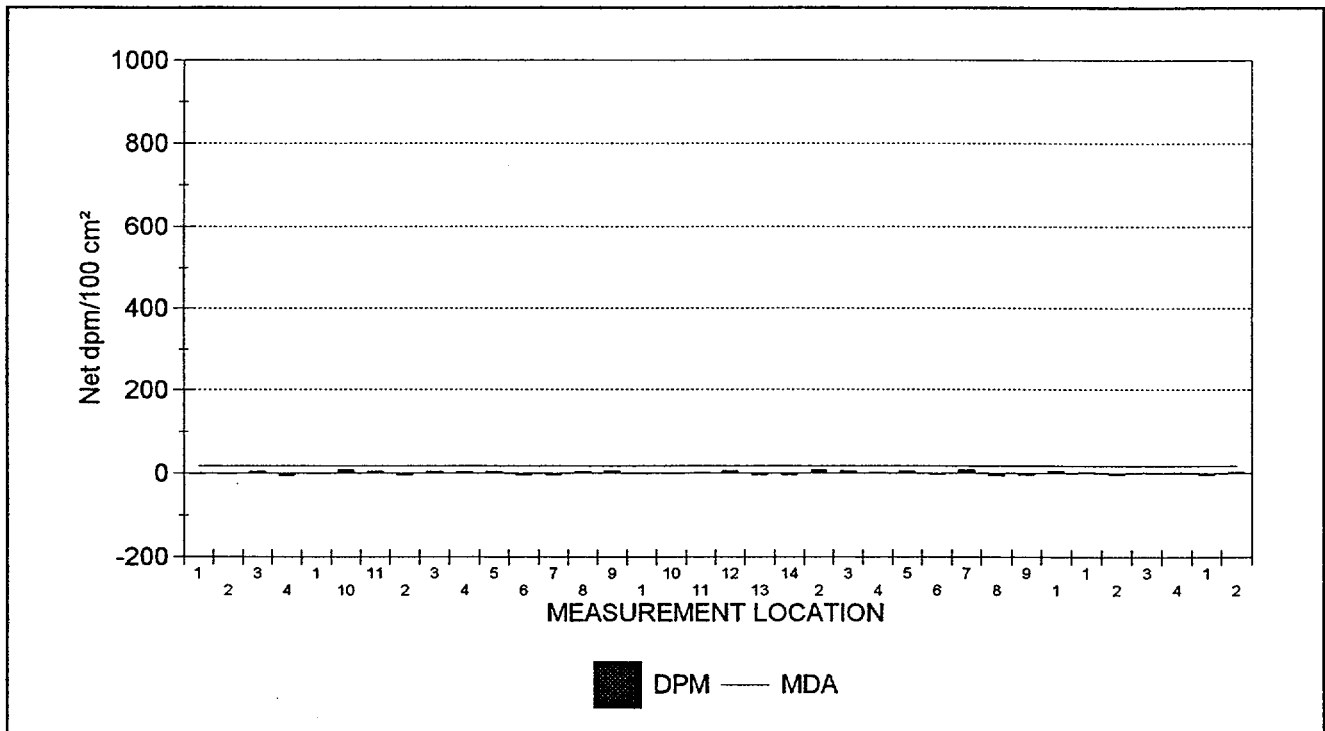
STATISTICAL SUMMARY

TESTS PERFORMED

	Net dpm/100 cm <sup>2</sup>
Mean	1.1
Maximum	9.3
Minimum	-5.8
Standard Deviation	4.6
MDA	17.8

Samples reported satisfy samples prescribed	YES
MDA <100 net dpm/100 cm <sup>2</sup>	YES
Results above 100 net dpm/100 cm <sup>2</sup>	0
Number of results above MDA	0

Samples Reported	36
Samples Prescribed	36



36 RESULTS ARE GRAPHED



Maine Yankee Atomic Power Plant Site Characterization

03/22/98

Removable Contamination - Gross Alpha Activity

Survey Package B2000 SURFACES & STRUCTURES  
Bailey Barn - Elevation 1

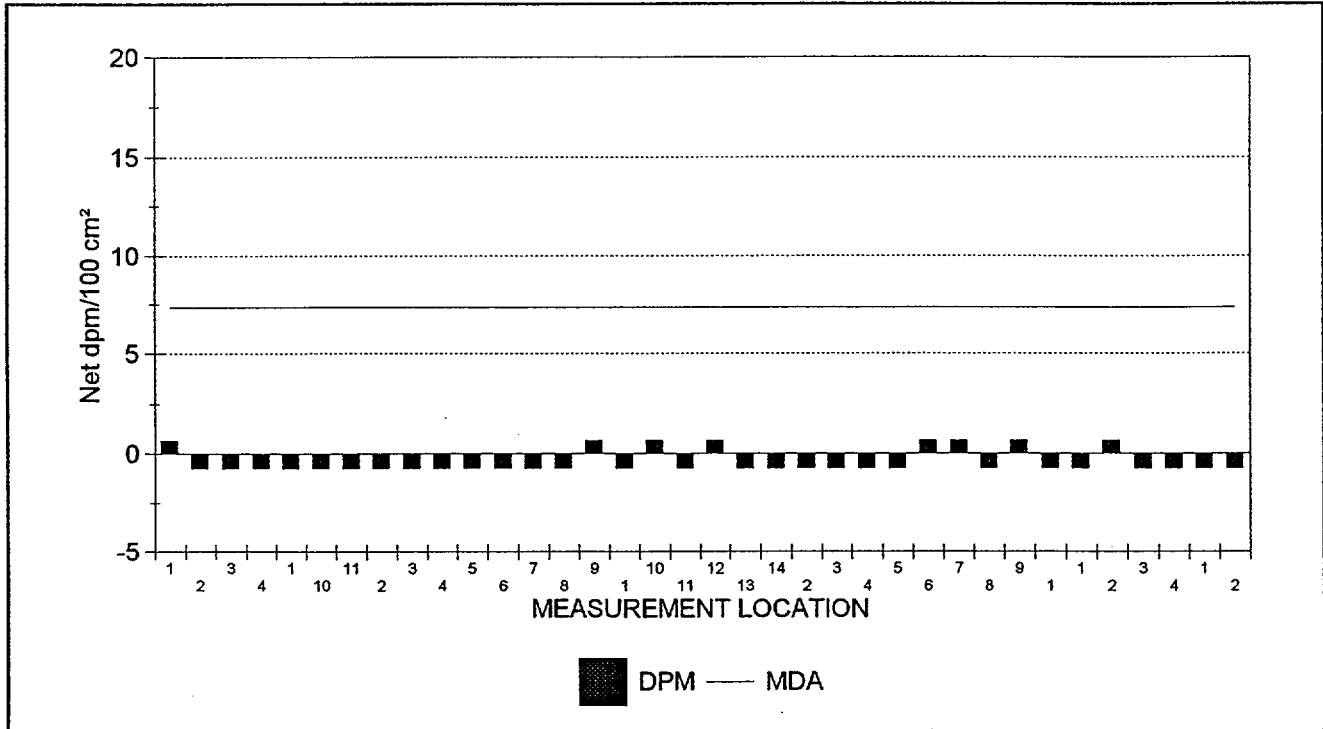
STATISTICAL SUMMARY

TESTS PERFORMED

	Net dpm/100 cm <sup>2</sup>
Mean	-0.4
Maximum	0.7
Minimum	-0.8
Standard Deviation	0.6
MDA	7.3

Samples reported satisfy samples prescribed	YES
MDA < 10 net dpm/100 cm <sup>2</sup>	YES
Results above 20 net dpm/100 cm <sup>2</sup>	0
Number of results above MDA	0

Samples Reported	36
Samples Prescribed	36



36 RESULTS ARE GRAPHED



## Maine Yankee Atomic Power Plant Site Characterization

03/22/98

## Removable Contamination

Survey Package : B2000 SURFACES & STRUCTURES  
Bailey Barn - Elevation 1

## RESULTS LISTING - SORTED BY SURFACE CODE

XLS FILE	UNIT	SURFACE	REASON	COUNT	MSRMNT	ALPHA	BETA
				TIME	LOCATION		
SME1B049.XLS	02	WS1	C01	2	2	-0.8	2.6
SME1B049.XLS	02	WS1	C01	2	1	-0.8	-4.1
SME1B049.XLS	02	FL1	C01	2	4	-0.8	0.9
SME1B049.XLS	02	FL1	C01	2	3	-0.8	0.9
SME1B049.XLS	02	FL1	C01	2	2	0.7	-4.1
SME1B049.XLS	02	FL1	C01	2	1	-0.8	2.6
SME1B049.XLS	02	CL1	C01	2	1	-0.8	5.9
SME1B049.XLS	01	WS1	C01	2	9	0.7	-4.1
SME1B049.XLS	01	WS1	C01	2	8	-0.8	-5.8
SME1B049.XLS	01	WS1	C01	2	7	0.7	9.3
SME1B049.XLS	01	WS1	C01	2	6	0.7	-2.5
SME1B049.XLS	01	WS1	C01	2	5	-0.8	5.9
SME1B049.XLS	01	WS1	C01	2	4	-0.8	0.9
SME1B049.XLS	01	WS1	C01	2	3	-0.8	5.9
SME1B049.XLS	01	WS1	C01	2	2	-0.8	9.3
SME1B049.XLS	01	WS1	C01	2	14	-0.8	-4.1
SME1B049.XLS	01	WS1	C01	2	13	-0.8	-4.1
SME1B049.XLS	01	WS1	C01	2	12	0.7	5.9
SME1B049.XLS	01	WS1	C01	2	11	-0.8	0.9
SME1B049.XLS	01	WS1	C01	2	10	0.7	-0.8
SME1B049.XLS	01	WS1	C01	2	1	-0.8	-0.8
SME1B049.XLS	01	FL1	C01	2	9	0.7	5.9
SME1B049.XLS	01	FL1	C01	2	8	-0.8	4.3
SME1B049.XLS	01	FL1	C01	2	7	-0.8	-4.1
SME1B049.XLS	01	FL1	C01	2	6	-0.8	-4.1
SME1B049.XLS	01	FL1	C01	2	5	-0.8	4.3
SME1B049.XLS	01	FL1	C01	2	4	-0.8	2.6
SME1B049.XLS	01	FL1	C01	2	3	-0.8	4.3
SME1B049.XLS	01	FL1	C01	2	2	-0.8	-4.1
SME1B049.XLS	01	FL1	C01	2	11	-0.8	4.3
SME1B049.XLS	01	FL1	C01	2	10	-0.8	9.3
SME1B049.XLS	01	FL1	C01	2	1	-0.8	-0.8
SME1B049.XLS	01	CL1	C01	2	4	-0.8	-5.8
SME1B049.XLS	01	CL1	C01	2	3	-0.8	4.3
SME1B049.XLS	01	CL1	C01	2	2	-0.8	-0.8
SME1B049.XLS	01	CL1	C01	2	1	0.7	-0.8

NOTES: Activity reported in net dpm/100 cm<sup>2</sup>. Count times are reported in minutes.  
 Underlined values exceed the associated MDA.  
 Bold values exceed 100.00 dpm/100 cm<sup>2</sup> (beta activity) and/or 20.00 dpm/100 cm<sup>2</sup> (alpha activity).  
 36 results are listed.



Maine Yankee Atomic Power Plant Site Characterization

DATAFILE & TENNELEC CALIBRATION SUMMARY

03/22/98

Removable Contamination

Survey Package : B2000 SURFACES & STRUCTURES  
Bailey Barn - Elevation 1

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SURVEYDATE	XLS FILE	INST ID	S/N	CAL DUE	LAB TECHNICIAN
2/12/98	SME1B049.XLS	1	14131	8/7/98	SNM

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CALIBRATION DATE VERIFIED AS ACCEPTABLE

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Maine Yankee Atomic Power Plant Site Characterization

03/22/98

Gamma Exposure Rate Measurements At 1 Meter

Survey Package B2000 SURFACES & STRUCTURES  
Bailey Barn - Elevation 1

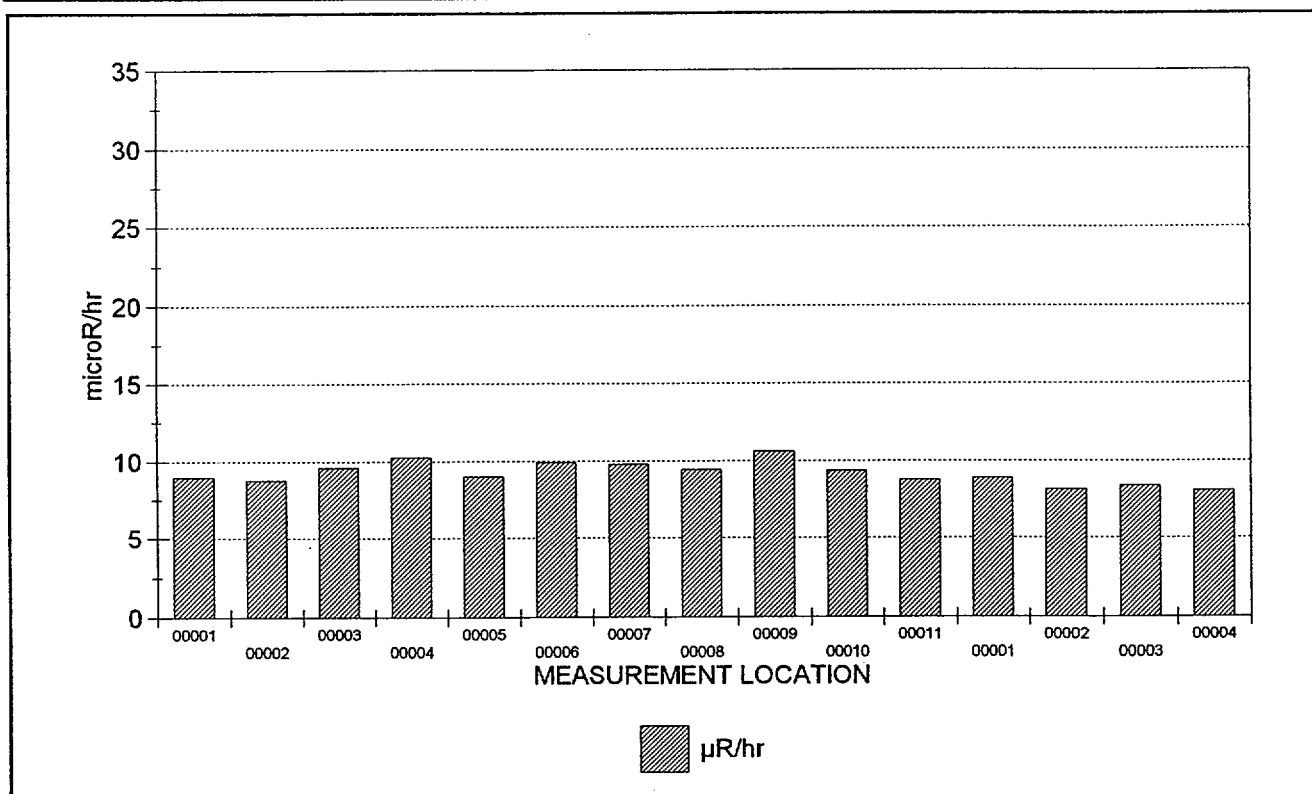
STATISTICAL SUMMARY

TESTS PERFORMED

	$\mu\text{R/hr}$
Mean	9.2
Maximum	10.6
Minimum	8.0
Standard Deviation	0.8

Samples reported satisfy samples prescribed	YES
---------------------------------------------	-----

Samples Reported	15
Samples Prescribed	15



15 RESULTS ARE GRAPHED



## Maine Yankee Atomic Power Plant Site Characterization

03/22/98

## Gamma Exposure Rate Measurements At 1 Meter

Survey Package : B2000 SURFACES & STRUCTURES  
Bailey Barn - Elevation 1

## RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	RESULT
87 (2)	01	FL1	G0016	C01	60.00	00001	9.0
87 (2)	01	FL1	G0039	C01	60.00	00002	8.8
87 (2)	01	FL1	G0039	C01	60.00	00003	9.6
87 (2)	01	FL1	G0039	C01	60.00	00004	10.3
87 (2)	01	FL1	G0039	C01	60.00	00005	9.0
87 (2)	01	FL1	G0039	C01	60.00	00006	9.9
87 (2)	01	FL1	G0039	C01	60.00	00007	9.8
87 (2)	01	FL1	G0039	C01	60.00	00008	9.4
87 (2)	01	FL1	G0039	C01	60.00	00009	10.6
87 (2)	01	FL1	G0039	C01	60.00	00010	9.4
87 (2)	01	FL1	G0039	C01	60.00	00011	8.8
87 (2)	02	FL1	B0048	C01	60.00	00001	8.9
87 (2)	02	FL1	B0048	C01	60.00	00002	8.1
87 (2)	02	FL1	B0048	C01	60.00	00003	8.4
87 (2)	02	FL1	B0048	C01	60.00	00004	8.0

NOTES: Exposure rates reported in net  $\mu$ R/hr. Count times are reported in seconds.  
Underlined results did not meet the minimum required count time.  
Bold values exceed 15  $\mu$ R/hr.  
15 results are listed.



## Maine Yankee Atomic Power Plant Site Characterization

**DOWNLOAD FILE & SURVEY INSTRUMENTATION CALIBRATION SUMMARY**

03/22/98

Gamma Exposure Rate Measurements At 1 Meter

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Survey Package : B2000 SURFACES & STRUCTURES  
Bailey Barn - Elevation 1

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SURVEY DATE	FILE #	M2350		DETECTOR			TECHNICIAN
		INST S/N	CAL DUE	MODEL	S/N	CAL DUE	
12/4/97	87 (2)	129408	5/7/98	44-2	129305	5/12/98	CWI5440

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CALIBRATION DATES VERIFIED AS ACCEPTABLE

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## Maine Yankee Atomic Power Plant Site Characterization

04/01/98

## CHARACTERIZATION SUMMARY

SURVEY PACKAGE NUMBER :B2100

SURFACES &amp; STRUCTURES

PACKAGE DESCRIPTION  
Lube Oil Storage Room

SURVEY AREA DESCRIPTION  
Lube Oil Storage Room

## GENERAL HISTORICAL INFORMATION (Operational history, etc.)

The Lube Oil Storage Room is an unaffected area located in the Southeast corner of the Turbine Building. The Turbine Building contains the main condensers and associated pipings. This area is constructed with concrete floor, concrete block lower walls, steel frame, and metal siding upper walls. The floor has been covered with paint-epoxy.

## SUMMARY OF CHARACTERIZATION ACTIVITIES

Survey units were established for the areas as shown in the following Summary of Survey Units. Maps with the survey measurement locations for this package are included on the following pages.

Performed a scan of approximately five square meters at 12 survey measurement locations indicated on the survey map(s). This was approximately 10% of the accessible surface area.

Collected direct measurements for total beta activity at 12 survey measurement locations at the highest location identified in the scan. If an elevated location was not observed, the measurement was collected at an arbitrary location, selected by the technician, within the five square meter scanned area.

Collected smear samples to analyze for removable alpha and beta activity at 12 survey locations of direct measurements for total beta activity.

Collected one meter gamma exposure rate measurements at 4 survey locations for direct measurements for total beta activity on floor surfaces.

The survey result statistical summaries, graphs and results listings are shown in the following individual reports including calibration summaries for the instruments used for each measurement type.

## CHARACTERIZATION SURVEY RESULTS

- o There was 1 direct measurement for total beta activity above MDA (630 dpm/100cm<sup>2</sup>) and no results greater than 2000 dpm/100cm<sup>2</sup>. The maximum measurement result was 610 dpm/100cm<sup>2</sup>.
- o There were no measurements for removable beta activity above MDA (17.8 dpm/100cm<sup>2</sup>).
- o There were no measurements for removable alpha activity above MDA (7.3 dpm/100cm<sup>2</sup>).
- o The average and maximum one meter exposure rate measurement results were 8.8 µR/hr and 10.9 µR/hr respectively.

## REFERENCES (Documents, Interviews)



Maine Yankee Atomic Power Plant Site Characterization

SUMMARY OF SURVEY UNIT(S)

03/24/98

OUTPUT BATCH SN = 243

**PACKAGE B2100 SURFACES & STRUCTURES**

Lube Oil Storage Room  
Lube Oil Storage Room

**UNIT(S)**

01 - Lube Oil Storage Room: Located in Turbine Building 21' Southeast Corner.

**SURFACE(S)**

CL1 (Ceiling)  
EQ1 (Equipment)  
EQ2 (Equipment)  
FL1 (Floor)  
WS1 (Walls)

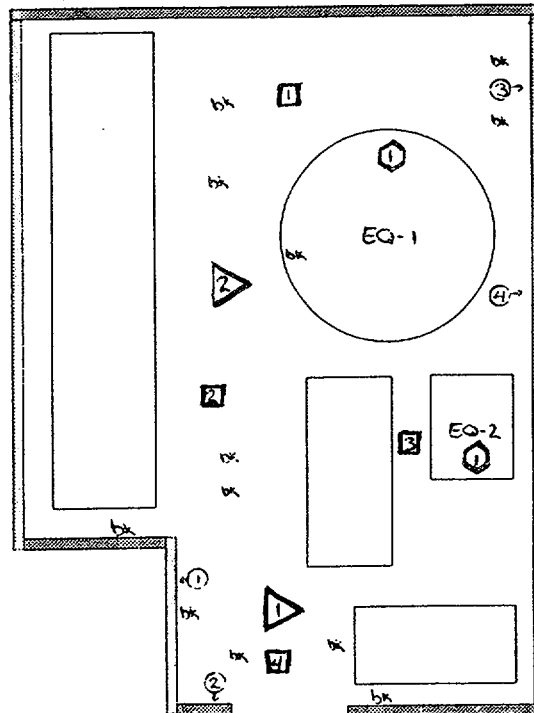
**REASON(S) CHARACTERIZATION SURVEY (C01)**

<b>MATERIALS</b>	<b>MAT'L CODE</b>	<b>MATERIAL DESCRIPTION</b>	<b>BETA BKGD (dpm/100 cm<sup>2</sup>)</b>
	B0001	CONCRETE - PAINTED (INTERIOR)	478.0
	B0003	CINDER BLOCK - PAINTED (INTERIOR)	478.0
	B0036	METAL - PAINTED	0.0

Maine Yankee Atomic Power Plant Site Characterization

SURVEY PACKAGE B2100

Lube Oil Storage Room  
Turbine Bldg 21'



- B21-
- ⊙ - survey locations on walls
  - ⊠ - survey locations on floors
  - ⊙ - survey locations on equipment
  - ▽ - survey locations on ceilings
  - bk - background locations



Maine Yankee Atomic Power Plant Site Characterization

03/24/98

Direct Measurements For Total Beta Activity

Survey Package B2100 SURFACES & STRUCTURES  
 Lube Oil Storage Room  
 Lube Oil Storage Room

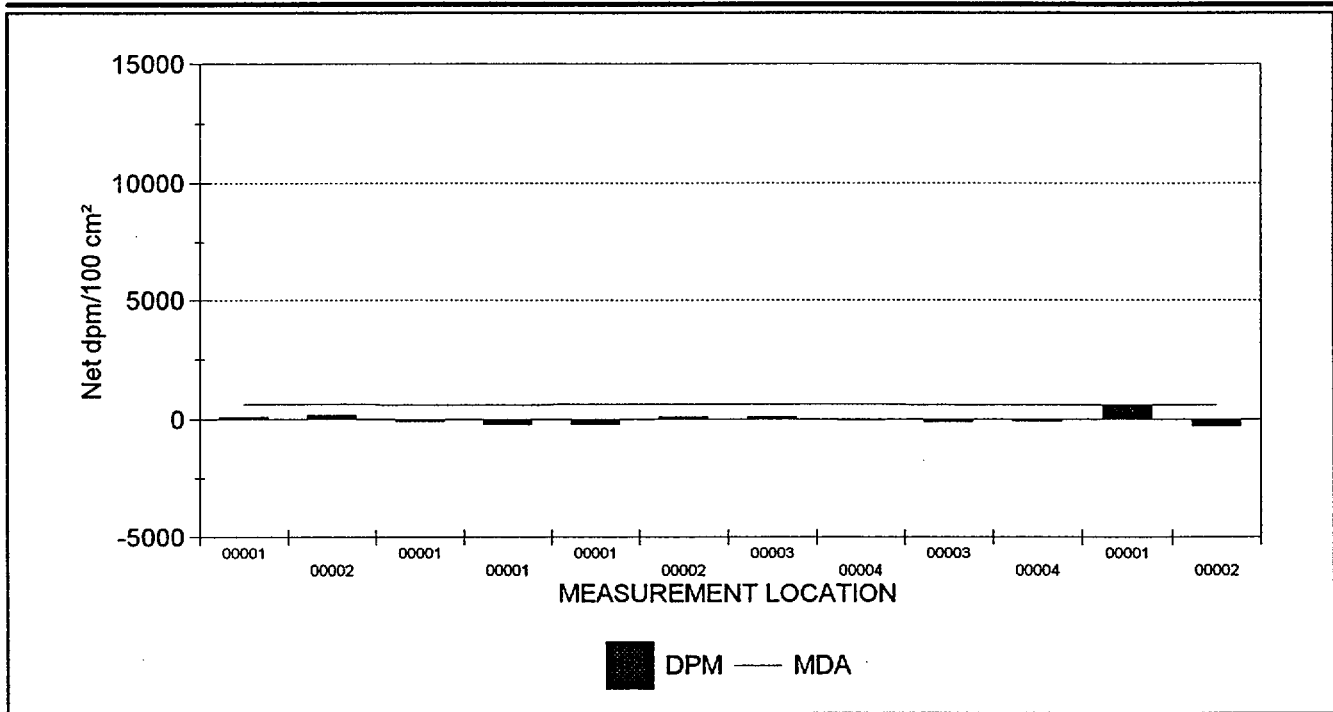
STATISTICAL SUMMARY

TESTS PERFORMED

	Net dpm/100 cm <sup>2</sup>
Mean	8.7
Maximum	610.4
Minimum	-290.6
Standard Deviation	240.7
MDA	629.8

Samples reported satisfy samples prescribed	YES
MDA <2000 net dpm/100 cm <sup>2</sup>	YES
Results above 2000 net dpm/100 cm <sup>2</sup>	0
Number of results above MDA	1

Samples Reported	12
Samples Prescribed	12



12 RESULTS ARE GRAPHED



## Maine Yankee Atomic Power Plant Site Characterization

03/24/98

## Direct Measurements For Total Beta Activity

Survey Package : B2100 SURFACES & STRUCTURES  
 Lube Oil Storage Room  
 Lube Oil Storage Room

## RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	MDA	RESULT
375 (2)	01	CL1	B0036	C01	10	00001	629.8	99.9
375 (2)	01	CL1	B0036	C01	10	00002	629.8	191.5
379 (2)	01	EQ1	B0036	C01	10	00001	594.0	-66.7
379 (2)	01	EQ2	B0036	C01	10	00001	594.0	-205.4
375 (2)	01	FL1	B0001	C01	10	00001	629.8	-217.8
375 (2)	01	FL1	B0001	C01	10	00002	629.8	102.9
375 (2)	01	FL1	B0001	C01	10	00003	629.8	102.9
375 (2)	01	FL1	B0001	C01	10	00004	629.8	-34.5
379 (2)	01	WS1	B0001	C01	10	00003	594.0	-105.8
379 (2)	01	WS1	B0001	C01	10	00004	594.0	-82.7
379 (2)	01	WS1	B0003	C01	10	00001	594.0	<u>610.4</u>
379 (2)	01	WS1	B0003	C01	10	00002	594.0	-290.6

NOTES: Activity reported in net dpm/100 cm<sup>2</sup>. Count times are reported in seconds.  
 Underlined values exceed the MDA.  
 Bold values exceed 2000 dpm/100 cm<sup>2</sup>.  
 12 results are listed.





## Maine Yankee Atomic Power Plant Site Characterization

## DOWNLOAD FILE & SURVEY INSTRUMENTATION CALIBRATION SUMMARY

03/24/98

Direct Measurements For Total Beta Activity

Survey Package : B2100 SURFACES &amp; STRUCTURES

Lube Oil Storage Room

Lube Oil Storage Room

SURVEY DATE	FILE #	M2350		DETECTOR			PRE EFF	TECHNICIAN
		INST S/N	CAL DUE	MODEL	S/N	CAL DUE		
1/13/98	375 (2)	98620	3/20/98	43-106	128919	3/20/98	.21	DRK2986
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
1/13/98	379 (2)	126201	4/15/98	43-106	133858	5/3/98	.21	BSM0490
CALIBRATION DATES VERIFIED AS ACCEPTABLE								



Maine Yankee Atomic Power Plant Site Characterization

03/24/98

Removable Contamination - Gross Beta Activity

Survey Package B2100 SURFACES & STRUCTURES  
 Lube Oil Storage Room  
 Lube Oil Storage Room

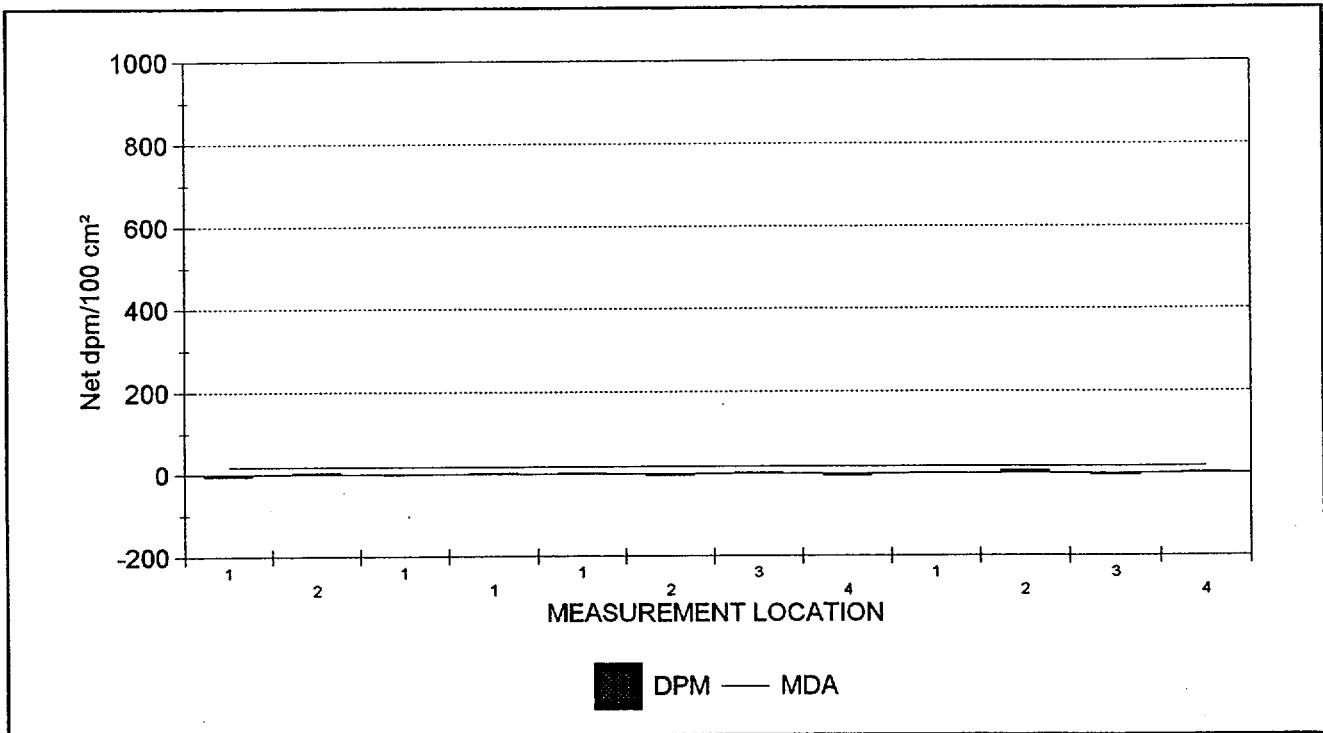
STATISTICAL SUMMARY

TESTS PERFORMED

	Net dpm/100 cm <sup>2</sup>
Mean	0.2
Maximum	7.6
Minimum	-5.8
Standard Deviation	4.3
MDA	17.8

Samples reported satisfy samples prescribed	YES
MDA <100 net dpm/100 cm <sup>2</sup>	YES
Results above 100 net dpm/100 cm <sup>2</sup>	0
Number of results above MDA	0

Samples Reported	12
Samples Prescribed	12



12 RESULTS ARE GRAPHED



Maine Yankee Atomic Power Plant Site Characterization

03/24/98

Removable Contamination - Gross Alpha Activity

Survey Package B2100 SURFACES & STRUCTURES  
 Lube Oil Storage Room  
 Lube Oil Storage Room

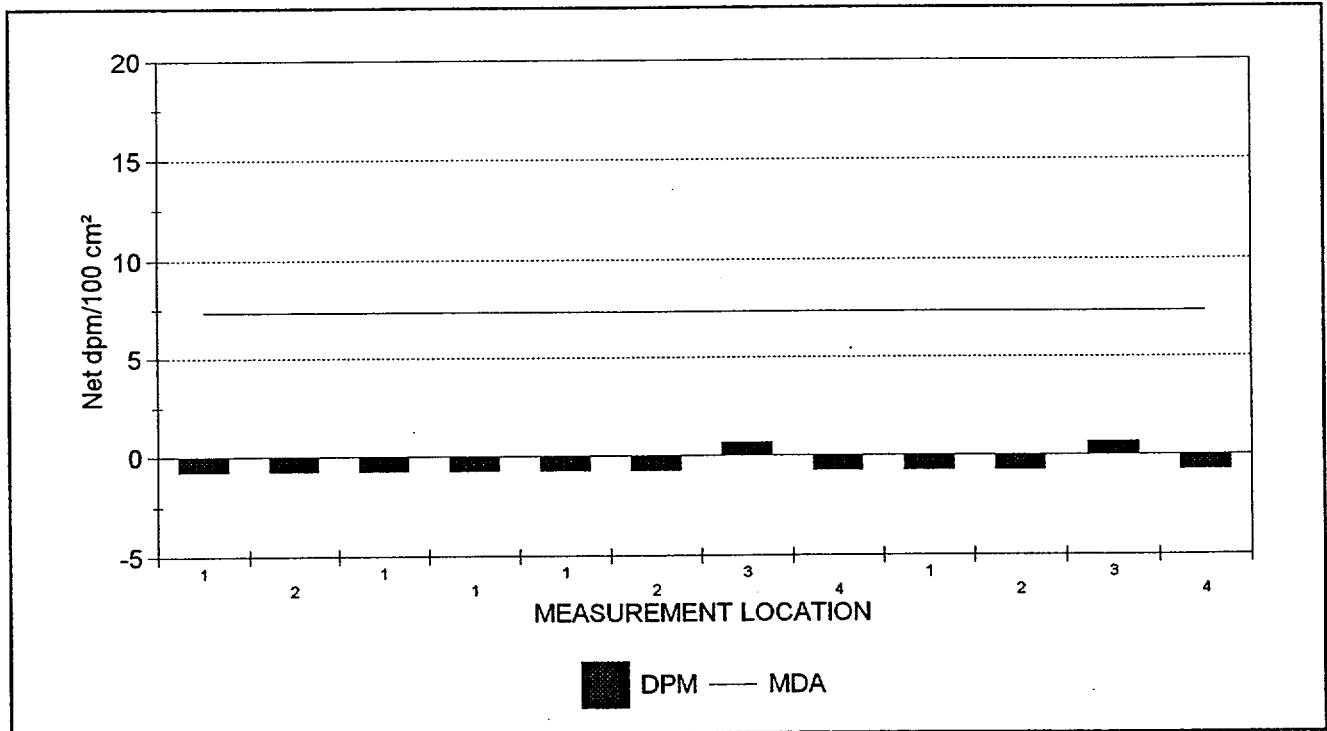
STATISTICAL SUMMARY

TESTS PERFORMED

	Net dpm/100 cm <sup>2</sup>
Mean	-0.5
Maximum	0.7
Minimum	-0.8
Standard Deviation	0.6
MDA	7.3

Samples reported satisfy samples prescribed	YES
MDA <10 net dpm/100 cm <sup>2</sup>	YES
Results above 20 net dpm/100 cm <sup>2</sup>	0
Number of results above MDA	0

Samples Reported	12
Samples Prescribed	12



12 RESULTS ARE GRAPHED



## Maine Yankee Atomic Power Plant Site Characterization

03/24/98

## Removable Contamination

Survey Package : B2100 SURFACES & STRUCTURES  
 Lube Oil Storage Room  
 Lube Oil Storage Room

## RESULTS LISTING - SORTED BY SURFACE CODE

XLS FILE	UNIT	SURFACE	REASON	COUNT	MSRMNT	ALPHA	BETA
				TIME	LOCATION		
SME1B050.XLS	01	WS1	C01	2	4	-0.8	2.6
SME1B050.XLS	01	WS1	C01	2	3	0.7	-4.1
SME1B050.XLS	01	WS1	C01	2	2	-0.8	7.6
SME1B050.XLS	01	WS1	C01	2	1	-0.8	0.9
SME1B050.XLS	01	FL1	C01	2	4	-0.8	-5.8
SME1B050.XLS	01	FL1	C01	2	3	0.7	2.6
SME1B050.XLS	01	FL1	C01	2	2	-0.8	-4.1
SME1B050.XLS	01	FL1	C01	2	1	-0.8	2.6
SME1B050.XLS	01	EQ2	C01	2	1	-0.8	2.6
SME1B050.XLS	01	EQ1	C01	2	1	-0.8	-0.8
SME1B050.XLS	01	CL1	C01	2	2	-0.8	4.3
SME1B050.XLS	01	CL1	C01	2	1	-0.8	-5.8

NOTES: Activity reported in net dpm/100 cm<sup>2</sup>. Count times are reported in minutes.  
 Underlined values exceed the associated MDA.  
 Bold values exceed 100.00 dpm/100 cm<sup>2</sup> (beta activity) and/or 20.00 dpm/100 cm<sup>2</sup> (alpha activity).  
 12 results are listed.



Maine Yankee Atomic Power Plant Site Characterization

DATAFILE & TENNELEC CALIBRATION SUMMARY

03/24/98

Removable Contamination

Survey Package : B2100 SURFACES & STRUCTURES  
Lube Oil Storage Room  
Lube Oil Storage Room

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SURVEYDATE	XLS FILE	INST ID	S/N	CAL DUE	LAB TECHNICIAN
2/12/98	SME1B050.XLS	1	14131	8/7/98	SNM

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CALIBRATION DATE VERIFIED AS ACCEPTABLE

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Maine Yankee Atomic Power Plant Site Characterization

03/24/98

Gamma Exposure Rate Measurements At 1 Meter

Survey Package B2100 SURFACES & STRUCTURES  
 Lube Oil Storage Room  
 Lube Oil Storage Room

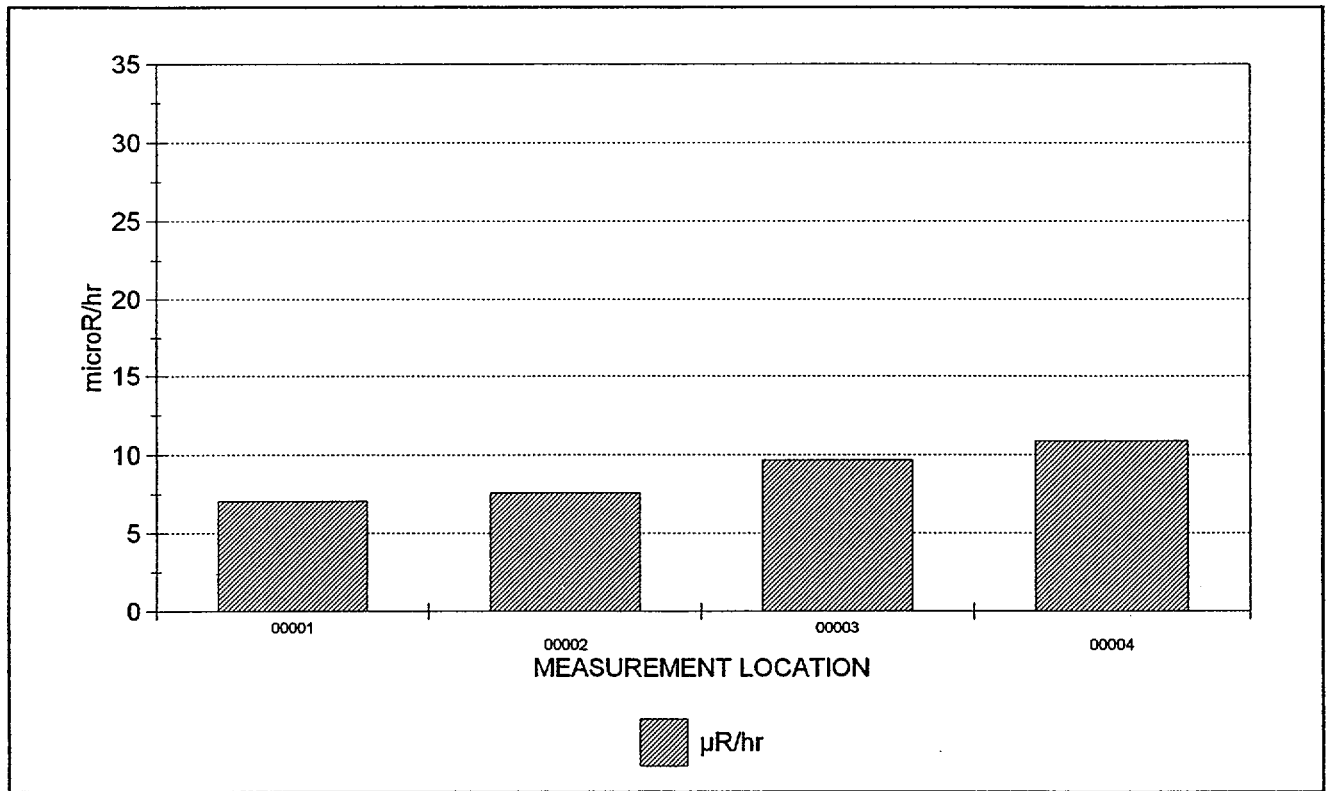
STATISTICAL SUMMARY

TESTS PERFORMED

	$\mu\text{R/hr}$
Mean	8.8
Maximum	10.9
Minimum	7.1
Standard Deviation	1.8

Samples reported satisfy samples prescribed	YES
---------------------------------------------	-----

Samples Reported	4
Samples Prescribed	4



4 RESULTS ARE GRAPHED



## Maine Yankee Atomic Power Plant Site Characterization

03/24/98

## Gamma Exposure Rate Measurements At 1 Meter

Survey Package : B2100 SURFACES &amp; STRUCTURES

Lube Oil Storage Room

Lube Oil Storage Room

## RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	RESULT
378 (2)	01	FL1	B0001	C01	60.00	00001	7.1
378 (2)	01	FL1	B0001	C01	60.00	00002	7.6
378 (2)	01	FL1	B0001	C01	60.00	00003	9.7
378 (2)	01	FL1	B0001	C01	60.00	00004	10.9

NOTES: Exposure rates reported in net  $\mu$ R/hr. Count times are reported in seconds.  
 Underlined results did not meet the minimum required count time.  
 Bold values exceed 15  $\mu$ R/hr.  
 4 results are listed.



Maine Yankee Atomic Power Plant Site Characterization

**DOWNLOAD FILE & SURVEY INSTRUMENTATION CALIBRATION SUMMARY**

03/24/98

Gamma Exposure Rate Measurements At 1 Meter

Survey Package: B2100 SURFACES & STRUCTURES

Lube Oil Storage Room  
Lube Oil Storage Room

SURVEY DATE	FILE #	M2350		DETECTOR			TECHNICIAN
		INST S/N	CAL DUE	MODEL	S/N	CAL DUE	
1/13/98	378 (2)	98620	3/20/98	44-2	129304	4/19/98	DRK2986

CALIBRATION DATES VERIFIED AS ACCEPTABLE





## Maine Yankee Atomic Power Plant Site Characterization

04/01/98

**CHARACTERIZATION SUMMARY**

SURVEY PACKAGE NUMBER :B2200

SURFACES &amp; STRUCTURES

PACKAGE DESCRIPTION  
Machine Shop -Cold Side

SURVEY AREA DESCRIPTION  
Machine Shop (Cold Side)

**GENERAL HISTORICAL INFORMATION (Operational history, etc.)**

The Machine Shop (Cold Side) is unaffected area located in the Southeast corner of the Turbine Building. The Turbine Building contains the main condensers and associated pipings. This area is constructed with concrete floor, concrete block lower walls, steel frame, and metal siding upper walls. The floor has been covered with paint-epoxy.

**SUMMARY OF CHARACTERIZATION ACTIVITIES**

Survey units were established for the areas as shown in the following Summary of Survey Units. Maps with the survey measurement locations for this package are included on the following pages.

Performed a scan of approximately five square meters at 20 survey measurement locations indicated on the survey map(s). This was approximately 10% of the accessible surface area.

Collected direct measurements for total beta activity at 20 survey measurement locations at the highest location identified in the scan. If an elevated location was not observed, the measurement was collected at an arbitrary location, selected by the technician, within the five square meter scanned area.

Collected smear samples to analyze for removable alpha and beta activity at 20 survey locations of direct measurements for total beta activity.

Collected one meter gamma exposure rate measurements at 6 survey locations for direct measurements for total beta activity on floor surfaces.

The survey result statistical summaries, graphs and results listings are shown in the following individual reports including calibration summaries for the instruments used for each measurement type.

**CHARACTERIZATION SURVEY RESULTS**

- o There were 2 direct measurements for total beta activity above MDA (604 dpm/100cm<sup>2</sup>) and no results greater than 2000 dpm/100cm<sup>2</sup>. The maximum measurement result was 762 dpm/100cm<sup>2</sup>.
- o There were no measurements for removable beta activity above MDA (17.8 dpm/100cm<sup>2</sup>).
- o There were no measurements for removable alpha activity above MDA (7.3 dpm/100cm<sup>2</sup>).
- o The average and maximum one meter exposure rate measurement results were 8 µR/hr and 9 µR/hr respectively.

**REFERENCES (Documents, Interviews)**



Maine Yankee Atomic Power Plant Site Characterization

SUMMARY OF SURVEY UNIT(S)

03/22/98

OUTPUT BATCH SN = 208

**PACKAGE B2200 SURFACES & STRUCTURES**

Machine Shop - Cold Side

Machine Shop -Cold Side

**UNIT(S)**

01 - Machine Shop -Cold Side: Located in Turbine Building 21' Southeast Corner

**SURFACE(S)**

- CL1 (Ceiling)
- EQ1 (Equipment)
- EQ2 (Equipment)
- EQ3 (Equipment)
- EQ4 (Equipment)
- FL1 (Floor)
- WS1 (Walls)

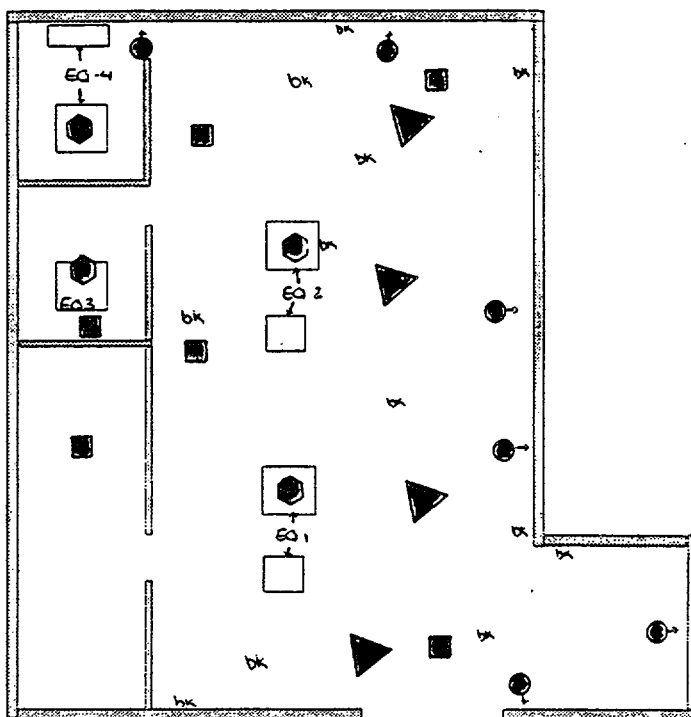
**REASON(S) CHARACTERIZATION SURVEY (C01)**

<b>MATERIALS</b>	<b>MAT'L CODE</b>	<b>MATERIAL DESCRIPTION</b>	<b>BETA BKGD (dpm/100 cm<sup>2</sup>)</b>
	B0001	CONCRETE - PAINTED (INTERIOR)	478.0
	B0031	METAL - BARE	0.0
	B0036	METAL - PAINTED	0.0
	G0039	CONCRETE (BARE) - GAMMA	0.0

Maine Yankee Atomic Power Plant Site Characterization

SURVEY PACKAGE B2200

Cold Machine Shop  
Turbine Bldg 21'



B22-

- - survey locations on walls
- - survey locations on floors
- ⬢ - survey locations on equipment
- ▲ - survey locations on ceilings
- ok - background locations



Maine Yankee Atomic Power Plant Site Characterization

03/22/98

Direct Measurements For Total Beta Activity

Survey Package B2200 SURFACES & STRUCTURES  
 Machine Shop - Cold Side  
 Machine Shop -Cold Side

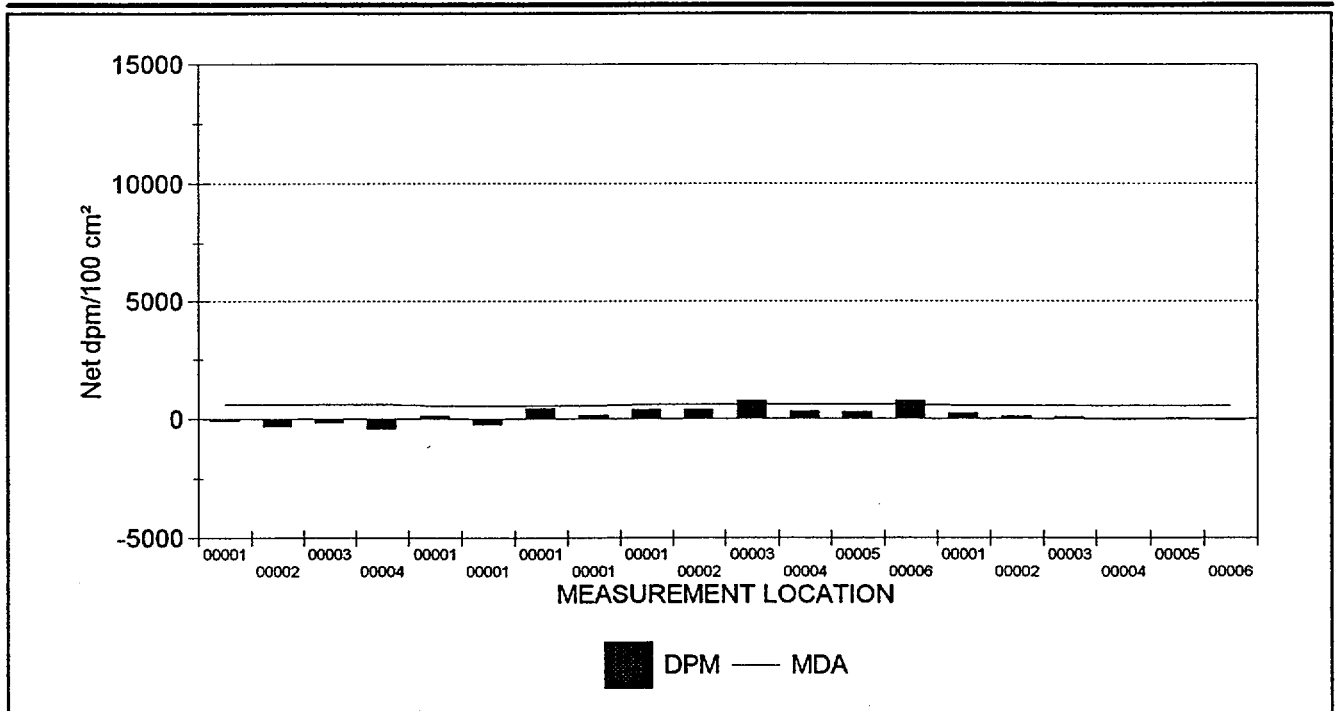
STATISTICAL SUMMARY

TESTS PERFORMED

	Net dpm/100 cm <sup>2</sup>
Mean	139.4
Maximum	762.3
Minimum	-412.6
Standard Deviation	317.9
MDA	603.8

Samples reported satisfy samples prescribed	YES
MDA <2000 net dpm/100 cm <sup>2</sup>	YES
Results above 2000 net dpm/100 cm <sup>2</sup>	0
Number of results above MDA	2

Samples Reported	20
Samples Prescribed	20



20 RESULTS ARE GRAPHED



## Maine Yankee Atomic Power Plant Site Characterization

03/22/98

## Direct Measurements For Total Beta Activity

Survey Package : B2200 SURFACES &amp; STRUCTURES

Machine Shop - Cold Side

Machine Shop -Cold Side

## RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	MDA	RESULT
358 (2)	01	CL1	B0036	C01	10	00001	603.8	-86.7
358 (2)	01	CL1	B0036	C01	10	00002	603.8	-319.5
358 (2)	01	CL1	B0036	C01	10	00003	603.8	-156.5
358 (2)	01	CL1	B0036	C01	10	00004	603.8	-412.6
361 (2)	01	EQ1	B0031	C01	10	00001	550.0	121.4
361 (2)	01	EQ2	B0031	C01	10	00001	550.0	-227.2
361 (2)	01	EQ3	B0031	C01	10	00001	550.0	446.7
361 (2)	01	EQ4	B0031	C01	10	00001	550.0	144.6
358 (2)	01	FL1	B0001	C01	10	00001	603.8	389.9
358 (2)	01	FL1	B0001	C01	10	00002	603.8	389.9
358 (2)	01	FL1	B0001	C01	10	00003	603.8	<u>762.4</u>
358 (2)	01	FL1	B0001	C01	10	00004	603.8	<u>320.0</u>
358 (2)	01	FL1	B0001	C01	10	00005	603.8	273.5
358 (2)	01	FL1	B0001	C01	10	00006	603.8	<u>762.4</u>
361 (2)	01	WS1	B0036	C01	10	00001	550.0	237.6
361 (2)	01	WS1	B0036	C01	10	00002	550.0	98.1
361 (2)	01	WS1	B0036	C01	10	00003	550.0	74.9
361 (2)	01	WS1	B0036	C01	10	00004	550.0	-18.1
361 (2)	01	WS1	B0036	C01	10	00005	550.0	28.4
361 (2)	01	WS1	B0036	C01	10	00006	550.0	-41.3

NOTES: Activity reported in net dpm/100 cm<sup>2</sup>. Count times are reported in seconds.  
 Underlined values exceed the MDA.  
 Bold values exceed 2000 dpm/100 cm<sup>2</sup>.  
 20 results are listed.



## Maine Yankee Atomic Power Plant Site Characterization

## DOWNLOAD FILE & SURVEY INSTRUMENTATION CALIBRATION SUMMARY

03/22/98

Direct Measurements For Total Beta Activity

Survey Package : B2200 SURFACES & STRUCTURES  
 Machine Shop - Cold Side  
 Machine Shop -Cold Side

SURVEY DATE	FILE #	M2350		DETECTOR			PRE EFF	TECHNICIAN
		INST S/N	CAL DUE	MODEL	S/N	CAL DUE		
1/12/98	358 (2)	98620	3/20/98	43-106	128919	3/20/98	.20	DRK2986
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
1/12/98	361 (2)	126201	4/15/98	43-106	133858	5/3/98	.20	BSM0490
CALIBRATION DATES VERIFIED AS ACCEPTABLE								



Maine Yankee Atomic Power Plant Site Characterization

03/22/98

Removable Contamination - Gross Beta Activity

Survey Package B2200 SURFACES & STRUCTURES  
 Machine Shop - Cold Side  
 Machine Shop -Cold Side

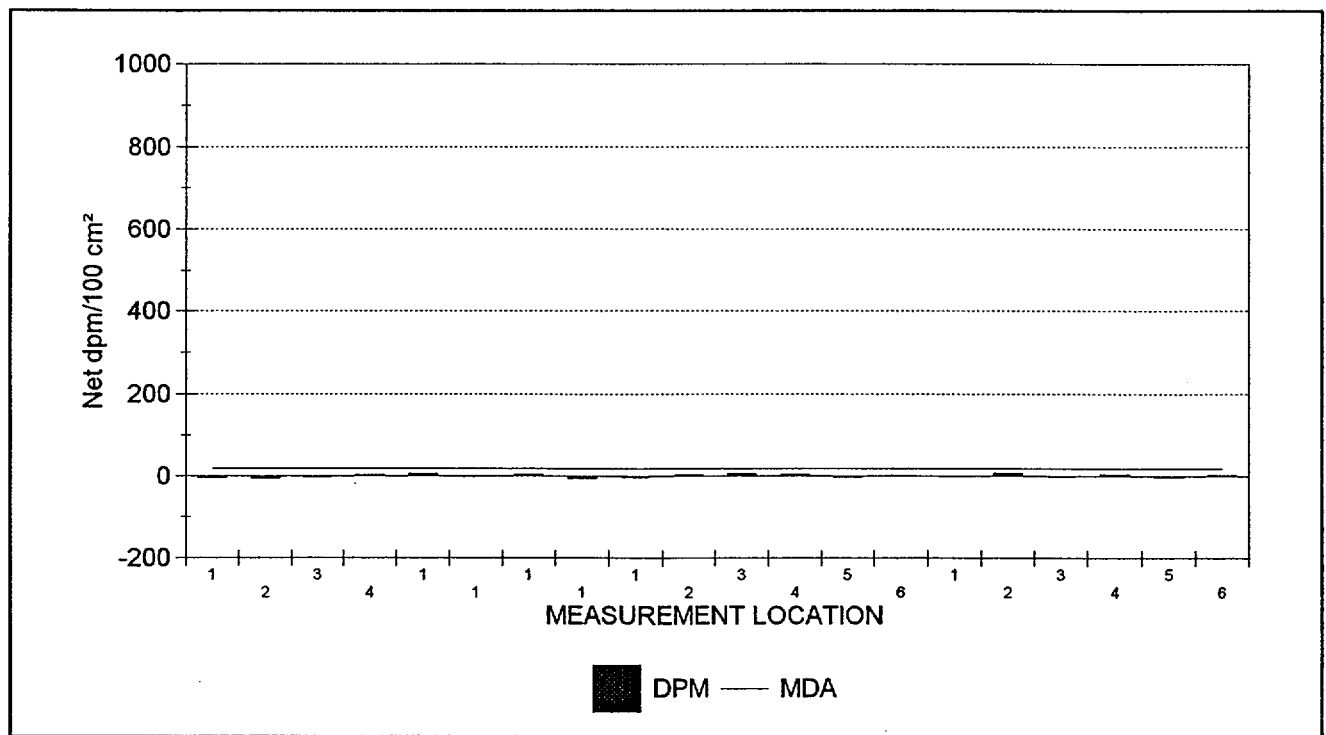
STATISTICAL SUMMARY

TESTS PERFORMED

	Net dpm/100 cm <sup>2</sup>
Mean	0.6
Maximum	7.6
Minimum	-5.8
Standard Deviation	4.0
MDA	17.8

Samples reported satisfy samples prescribed	YES
MDA <100 net dpm/100 cm <sup>2</sup>	YES
Results above 100 net dpm/100 cm <sup>2</sup>	0
Number of results above MDA	0

Samples Reported	20
Samples Prescribed	20



20 RESULTS ARE GRAPHED



Maine Yankee Atomic Power Plant Site Characterization

03/22/98

Removable Contamination - Gross Alpha Activity

Survey Package B2200 SURFACES & STRUCTURES  
 Machine Shop - Cold Side  
 Machine Shop -Cold Side

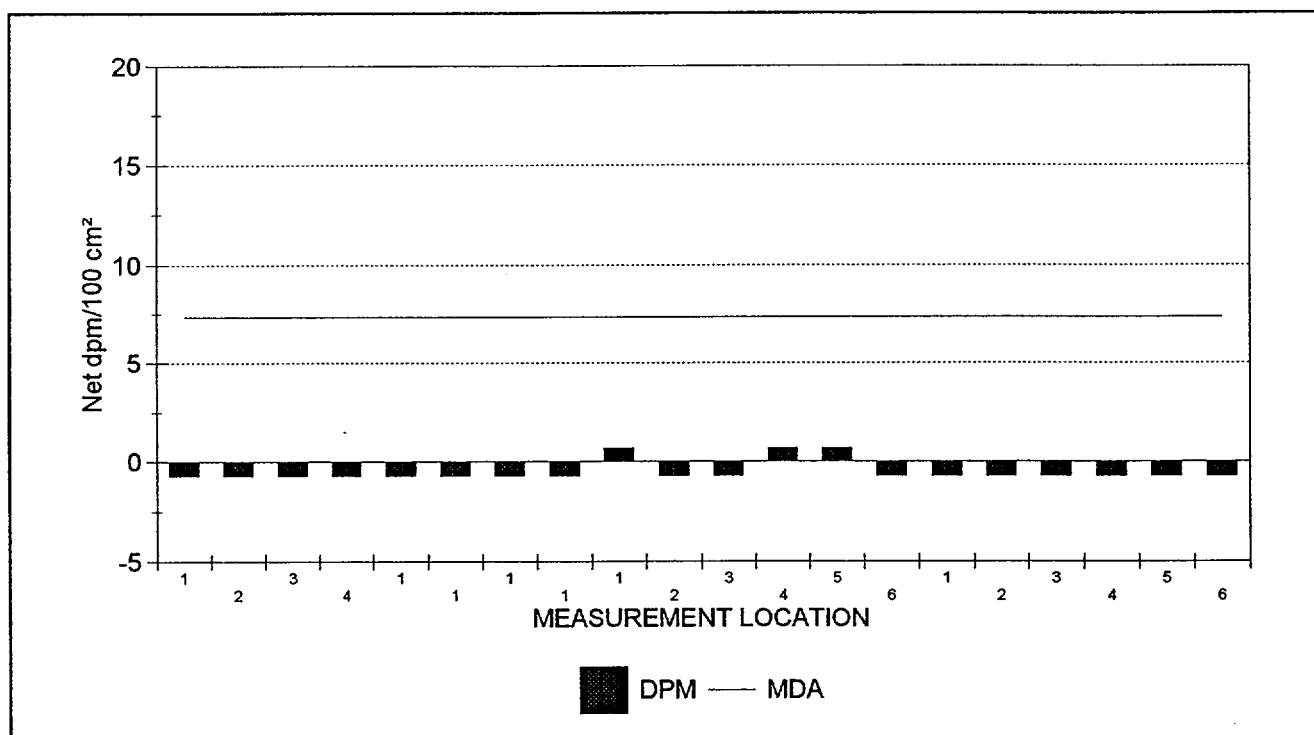
STATISTICAL SUMMARY

TESTS PERFORMED

	Net dpm/100 cm <sup>2</sup>
Mean	-0.5
Maximum	0.7
Minimum	-0.8
Standard Deviation	0.5
MDA	7.3

Samples reported satisfy samples prescribed	YES
MDA <10 net dpm/100 cm <sup>2</sup>	YES
Results above 20 net dpm/100 cm <sup>2</sup>	0
Number of results above MDA	0

Samples Reported	20
Samples Prescribed	20



20 RESULTS ARE GRAPHED





## Maine Yankee Atomic Power Plant Site Characterization

03/22/98

## Removable Contamination

Survey Package : B2200 SURFACES & STRUCTURES  
 Machine Shop - Cold Side  
 Machine Shop -Cold Side

## RESULTS LISTING - SORTED BY SURFACE CODE

XLS FILE	UNIT	SURFACE	REASON	COUNT	MSRMNT	ALPHA	BETA
				TIME	LOCATION		
SME1B051.XLS	01	WS1	C01	2	6	-0.8	2.6
SME1B051.XLS	01	WS1	C01	2	5	-0.8	-2.5
SME1B051.XLS	01	WS1	C01	2	4	-0.8	4.3
SME1B051.XLS	01	WS1	C01	2	3	-0.8	-0.8
SME1B051.XLS	01	WS1	C01	2	2	-0.8	7.6
SME1B051.XLS	01	WS1	C01	2	1	-0.8	-0.8
SME1B051.XLS	01	FL1	C01	2	6	-0.8	0.9
SME1B051.XLS	01	FL1	C01	2	5	0.7	-2.5
SME1B051.XLS	01	FL1	C01	2	4	0.7	4.3
SME1B051.XLS	01	FL1	C01	2	3	-0.8	5.9
SME1B051.XLS	01	FL1	C01	2	2	-0.8	2.6
SME1B051.XLS	01	FL1	C01	2	1	0.7	-2.5
SME1B051.XLS	01	EQ4	C01	2	1	-0.8	-5.8
SME1B051.XLS	01	EQ3	C01	2	1	-0.8	4.3
SME1B051.XLS	01	EQ2	C01	2	1	-0.8	-0.8
SME1B051.XLS	01	EQ1	C01	2	1	-0.8	5.9
SME1B051.XLS	01	CL1	C01	2	4	-0.8	2.6
SME1B051.XLS	01	CL1	C01	2	3	-0.8	-2.5
SME1B051.XLS	01	CL1	C01	2	2	-0.8	-5.8
SME1B051.XLS	01	CL1	C01	2	1	-0.8	-4.1

NOTES: Activity reported in net dpm/100 cm<sup>2</sup>. Count times are reported in minutes.  
 Underlined values exceed the associated MDA.  
 Bold values exceed 100.00 dpm/100 cm<sup>2</sup> (beta activity) and/or 20.00 dpm/100 cm<sup>2</sup> (alpha activity).  
 20 results are listed.



Maine Yankee Atomic Power Plant Site Characterization

DATAFILE & TENNELEC CALIBRATION SUMMARY

03/22/98

Removable Contamination

Survey Package : B2200 SURFACES & STRUCTURES

Machine Shop - Cold Side

Machine Shop -Cold Side

SURVEYDATE	XLS FILE	INST ID	S/N	CAL DUE	LAB TECHNICIAN
2/12/98	SME1B051.XLS	1	14131	8/7/98	SNM

CALIBRATION DATE VERIFIED AS ACCEPTABLE



Maine Yankee Atomic Power Plant Site Characterization

03/22/98

Gamma Exposure Rate Measurements At 1 Meter

Survey Package B2200 SURFACES & STRUCTURES  
 Machine Shop - Cold Side  
 Machine Shop -Cold Side

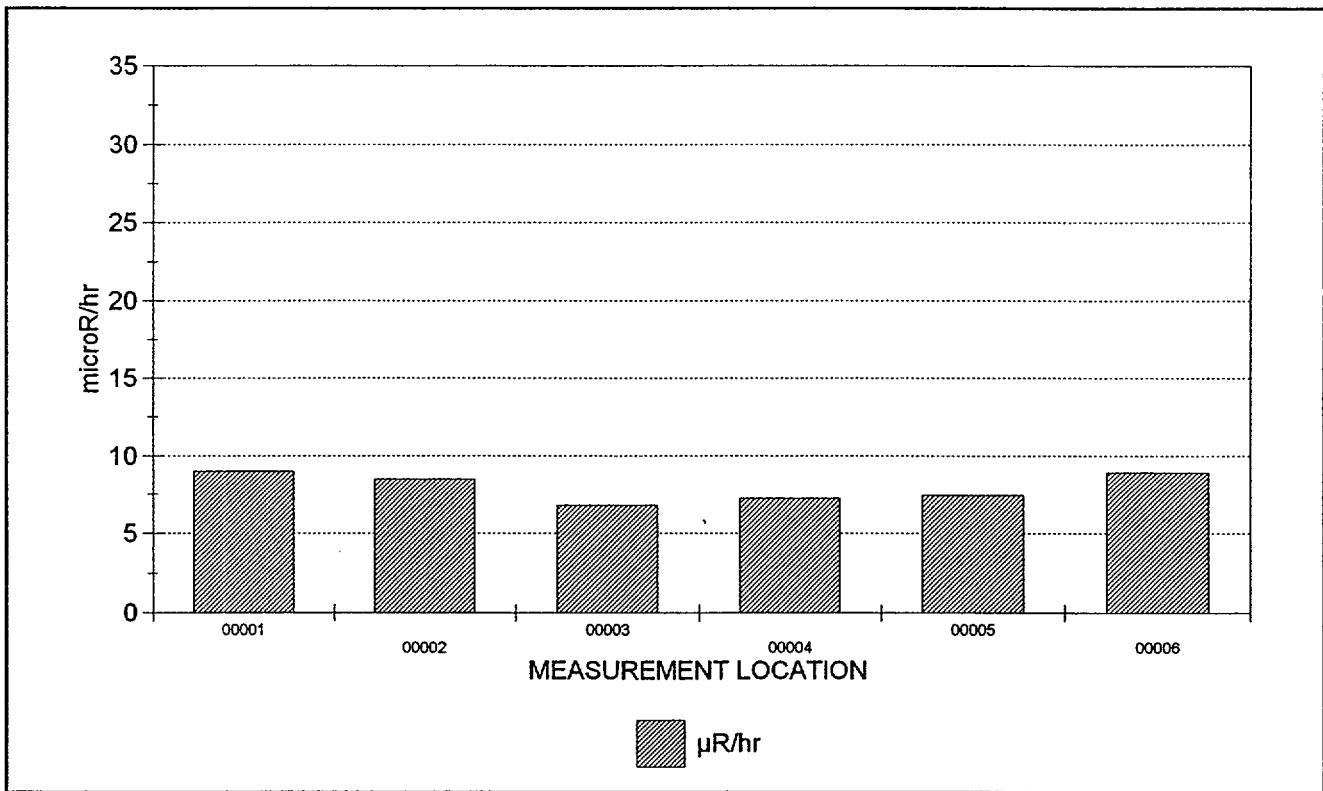
STATISTICAL SUMMARY

TESTS PERFORMED

	$\mu\text{R/hr}$
Mean	8.0
Maximum	9.0
Minimum	6.8
Standard Deviation	0.9

Samples reported satisfy samples prescribed	YES
---------------------------------------------	-----

Samples Reported	6
Samples Prescribed	6



6 RESULTS ARE GRAPHED



## Maine Yankee Atomic Power Plant Site Characterization

03/22/98

## Gamma Exposure Rate Measurements At 1 Meter

Survey Package : B2200 SURFACES &amp; STRUCTURES

Machine Shop - Cold Side

Machine Shop -Cold Side

## RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	RESULT
360 (2)	01	FL1	G0039	C01	60.00	00001	9.0
360 (2)	01	FL1	G0039	C01	60.00	00002	8.5
360 (2)	01	FL1	G0039	C01	60.00	00003	6.8
360 (2)	01	FL1	G0039	C01	60.00	00004	7.2
360 (2)	01	FL1	G0039	C01	60.00	00005	7.4
360 (2)	01	FL1	G0039	C01	60.00	00006	8.9

NOTES: Exposure rates reported in net  $\mu$ R/hr. Count times are reported in seconds.  
 Underlined results did not meet the minimum required count time.  
 Bold values exceed 15  $\mu$ R/hr.  
 6 results are listed.



## Maine Yankee Atomic Power Plant Site Characterization

## DOWNLOAD FILE & SURVEY INSTRUMENTATION CALIBRATION SUMMARY

03/22/98

Gamma Exposure Rate Measurements At 1 Meter

Survey Package: B2200 SURFACES &amp; STRUCTURES

Machine Shop - Cold Side

Machine Shop -Cold Side

SURVEY DATE	FILE #	M2350		DETECTOR			TECHNICIAN
		INST S/N	CAL DUE	MODEL	S/N	CAL DUE	
1/12/98	360 (2)	98620	3/20/98	44-2	129304	4/19/98	DRK2986

CALIBRATION DATES VERIFIED AS ACCEPTABLE



## Maine Yankee Atomic Power Plant Site Characterization

## CHARACTERIZATION SUMMARY

04/01/98

SURVEY PACKAGE NUMBER :B2300

SURFACES &amp; STRUCTURES

## PACKAGE DESCRIPTION

Cable Vault Room in Turbine Building 39'

## SURVEY AREA DESCRIPTION

Cable Vault Room in Turbine Building 39'

## GENERAL HISTORICAL INFORMATION (Operational history, etc.)

The Cable Vault Room is on the Mezzanine level (39') of the Turbine Building. It was constructed in 1968. The floor construction is concrete, walls are made of painted concrete or concrete block, and ceiling is made of concrete.

## SUMMARY OF CHARACTERIZATION ACTIVITIES

Survey units were established for the areas as shown in the following Summary of Survey Units. Maps with the survey measurement locations for this package are included on the following pages.

Performed a scan of approximately five square meters at 58 survey measurement locations indicated on the survey map(s). This was approximately 10% of the accessible surface area.

Collected direct measurements for total beta activity at 58 survey measurement locations at the highest location identified in the scan. If an elevated location was not observed, the measurement was collected at an arbitrary location, selected by the technician, within the five square meter scanned area.

Collected smear samples to analyze for removable alpha and beta activity at 58 survey locations of direct measurements for total beta activity.

Collected one meter gamma exposure rate measurements at 18 survey locations for direct measurements for total beta activity on floor surfaces.

The survey result statistical summaries, graphs and results listings are shown in the following individual reports including calibration summaries for the instruments used for each measurement type.

## CHARACTERIZATION SURVEY RESULTS

- o There were no direct measurements for total beta activity above MDA (632 dpm/100cm<sup>2</sup>).
- o There was 1 measurements for removable beta activity above MDA (17.6 dpm/100cm<sup>2</sup>) and no result greater than 100 dpm/100cm<sup>2</sup>. The maximum measurement result was 21.3 dpm/100cm<sup>2</sup>.
- o There were no measurements for removable alpha activity above MDA (6.9 dpm/100cm<sup>2</sup>).
- o The average and maximum one meter exposure rate measurement results were 13.8 µR/hr and 17.1 µR/hr respectively.

## REFERENCES (Documents, Interviews)



Maine Yankee Atomic Power Plant Site Characterization

SUMMARY OF SURVEY UNIT(S)

03/24/98

OUTPUT BATCH SN = 245

**PACKAGE B2300 SURFACES & STRUCTURES**

Cable Vault Room  
Cable Vault Room in Turbine Building 39'

UNIT(S)	SURFACE(S)
01 - Cable Vault Room #1 -Front Room	CL1 (Ceiling) EQ1 (Equipment: Cable Trays) FL1 (Floor) WS1 (Walls)
02 - Cable Vault Room #2 -Back Room	CL1 (Ceiling) EQ1 (Equipment: Cable Trays) EQ2 (Equipment: Ventilation Duct) FL1 (Floor) WS1 (Walls)

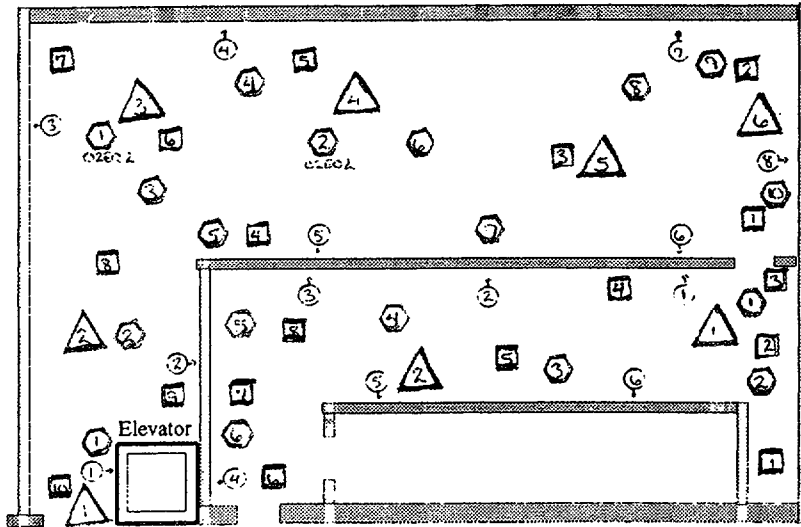
**REASON(S) CHARACTERIZATION SURVEY (C01)**

MATERIALS	MAT'L CODE	MATERIAL DESCRIPTION	BETA BKGD (dpm/100 cm <sup>2</sup> )
	B0001	CONCRETE - PAINTED (INTERIOR)	478.0
	B0003	CINDER BLOCK - PAINTED (INTERIOR)	478.0
	B9999	OTHER	0.0

Maine Yankee Atomic Power Plant Site Characterization

SURVEY PACKAGE B2300

**Cable Vault Room**  
(Turbine Bldg 39')



B23 -

- ⊙ - Survey locations on walls  
c12622 - Front Rm, c12621 - Back Rm
- ⊠ - Survey locations on floors  
c12621 - Front Rm, c12622 - Back Rm
- ⊙# - Survey locations on equipment  
c12621 - Back Rm
- △ - Survey locations on ceilings  
c12621 - Front Rm  
c12622 - Back Rm







Maine Yankee Atomic Power Plant Site Characterization

03/24/98

Direct Measurements For Total Beta Activity

Survey Package B2300 SURFACES & STRUCTURES  
 Cable Vault Room  
 Cable Vault Room in Turbine Building 39'

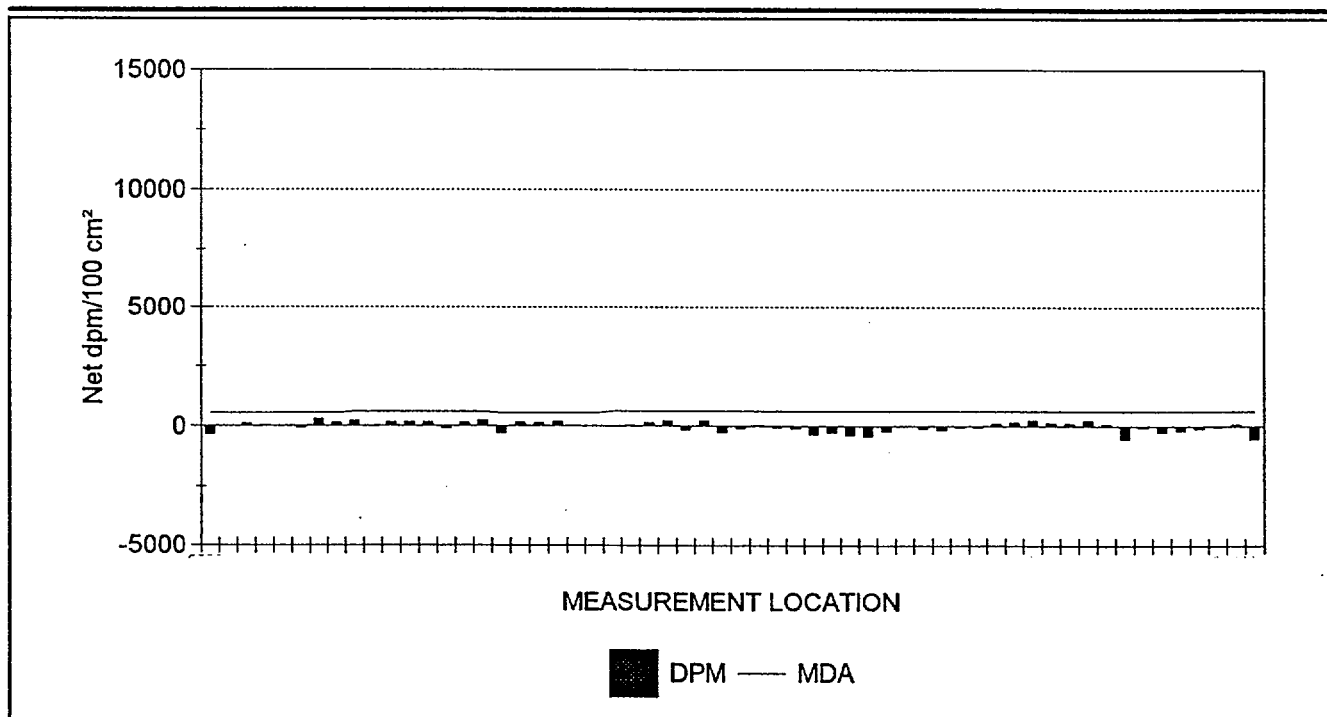
STATISTICAL SUMMARY

TESTS PERFORMED

	Net dpm/100 cm <sup>2</sup>
Mean	-23.4
Maximum	275.3
Minimum	-519.7
Standard Deviation	195.1
MDA	631.8

Samples reported satisfy samples prescribed	YES
MDA <2000 net dpm/100 cm <sup>2</sup>	YES
Results above 2000 net dpm/100 cm <sup>2</sup>	0
Number of results above MDA	0

Samples Reported	58
Samples Prescribed	58



58 RESULTS ARE GRAPHED



## Maine Yankee Atomic Power Plant Site Characterization

03/24/98

## Direct Measurements For Total Beta Activity

Survey Package : B2300 SURFACES & STRUCTURES  
 Cable Vault Room  
 Cable Vault Room in Turbine Building 39'

## RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	MDA	RESULT
475 (2)	01	CL1	B0001	C01	10	00001	554.3	-345.6
475 (2)	01	CL1	B0001	C01	10	00002	554.3	11.8
475 (2)	01	EQ1	B9999	C01	10	00001	554.3	108.5
475 (2)	01	EQ1	B9999	C01	10	00002	554.3	37.1
475 (2)	01	EQ1	B9999	C01	10	00003	554.3	-10.6
475 (2)	01	EQ1	B9999	C01	10	00004	554.3	-82.1
475 (2)	01	EQ1	B9999	C01	10	00005	554.3	275.3
475 (2)	01	EQ1	B9999	C01	10	00006	554.3	132.4
467 (2)	01	FL1	B0001	C01	10	00001	601.8	199.2
467 (2)	01	FL1	B0001	C01	10	00002	601.8	-11.2
467 (2)	01	FL1	B0001	C01	10	00003	601.8	152.4
467 (2)	01	FL1	B0001	C01	10	00004	601.8	152.4
467 (2)	01	FL1	B0001	C01	10	00005	601.8	152.4
467 (2)	01	FL1	B0001	C01	10	00006	601.8	-104.7
467 (2)	01	FL1	B0001	C01	10	00007	601.8	129.0
467 (2)	01	FL1	B0001	C01	10	00008	601.8	245.9
475 (2)	01	WS1	B0001	C01	10	00001	554.3	-274.1
475 (2)	01	WS1	B0001	C01	10	00002	554.3	154.8
475 (2)	01	WS1	B0001	C01	10	00003	554.3	130.9
475 (2)	01	WS1	B0003	C01	10	00004	554.3	178.6
475 (2)	01	WS1	B0003	C01	10	00005	554.3	11.8
475 (2)	01	WS1	B0003	C01	10	00006	554.3	-12.0
476 (2)	02	CL1	B9999	C01	10	00001	615.0	-14.3
476 (2)	02	CL1	B9999	C01	10	00002	615.0	34.8
476 (2)	02	CL1	B9999	C01	10	00003	615.0	132.9
476 (2)	02	CL1	B9999	C01	10	00004	615.0	206.5
476 (2)	02	CL1	B9999	C01	10	00005	615.0	-161.5
476 (2)	02	CL1	B9999	C01	10	00006	615.0	206.5
476 (2)	02	EQ1	B9999	C01	10	00001	615.0	-259.7
476 (2)	02	EQ1	B9999	C01	10	00002	615.0	-112.5
476 (2)	02	EQ1	B9999	C01	10	00003	615.0	34.8
476 (2)	02	EQ1	B9999	C01	10	00004	615.0	-63.4
476 (2)	02	EQ1	B9999	C01	10	00005	615.0	-112.5
476 (2)	02	EQ1	B9999	C01	10	00006	615.0	-333.3
477 (2)	02	EQ1	B9999	C01	10	00007	631.8	-250.3
477 (2)	02	EQ1	B9999	C01	10	00008	631.8	-372.8
477 (2)	02	EQ1	B9999	C01	10	00009	631.8	-421.7
477 (2)	02	EQ1	B9999	C01	10	00010	631.8	-201.3
477 (2)	02	EQ2	B9999	C01	10	00001	631.8	-5.4
477 (2)	02	EQ2	B9999	C01	10	00002	631.8	-103.4

NOTES: Activity reported in net dpm/100 cm<sup>2</sup>. Count times are reported in seconds.  
 Underlined values exceed the MDA.  
 Bold values exceed 2000 dpm/100 cm<sup>2</sup>.



## Maine Yankee Atomic Power Plant Site Characterization

03/24/98

## Direct Measurements For Total Beta Activity

Survey Package : B2300 SURFACES & STRUCTURES  
 Cable Vault Room  
 Cable Vault Room in Turbine Building 39'

## RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	MDA	RESULT
476 (2)	02	FL1	B0001	C01	10	00001	615.0	-148.8
476 (2)	02	FL1	B0001	C01	10	00002	615.0	-50.7
476 (2)	02	FL1	B0001	C01	10	00003	615.0	-50.7
476 (2)	02	FL1	B0001	C01	10	00004	615.0	96.5
476 (2)	02	FL1	B0001	C01	10	00005	615.0	145.6
476 (2)	02	FL1	B0001	C01	10	00006	615.0	243.7
476 (2)	02	FL1	B0001	C01	10	00007	615.0	121.1
476 (2)	02	FL1	B0001	C01	10	00008	615.0	96.5
476 (2)	02	FL1	B0001	C01	10	00009	615.0	243.7
476 (2)	02	FL1	B0001	C01	10	00010	615.0	72.0
476 (2)	02	WS1	B0001	C01	10	00002	615.0	-516.8
476 (2)	02	WS1	B0001	C01	10	00004	615.0	-50.7
477 (2)	02	WS1	B0001	C01	10	00005	631.8	-238.6
477 (2)	02	WS1	B0001	C01	10	00006	631.8	-189.6
477 (2)	02	WS1	B0001	C01	10	00007	631.8	-91.6
476 (2)	02	WS1	B0003	C01	10	00001	615.0	-26.1
476 (2)	02	WS1	B0003	C01	10	00003	615.0	72.0
477 (2)	02	WS1	B9999	C01	10	00008	631.8	-519.7

NOTES: Activity reported in net dpm/100 cm<sup>2</sup>. Count times are reported in seconds.  
 Underlined values exceed the MDA.  
 Bold values exceed 2000 dpm/100 cm<sup>2</sup>.  
 58 results are listed.



Maine Yankee Atomic Power Plant Site Characterization

DOWNLOAD FILE & SURVEY INSTRUMENTATION CALIBRATION SUMMARY

03/24/98

Direct Measurements For Total Beta Activity

Survey Package : B2300 SURFACES & STRUCTURES  
 Cable Vault Room  
 Cable Vault Room in Turbine Building 39'

SURVEY DATE	FILE #	M2350		DETECTOR			PRE EFF	TECHNICIAN
		INST S/N	CAL DUE	MODEL	S/N	CAL DUE		
1/21/98	467 (2)	080498	4/8/98	43-68	PR075149	4/8/98	.20	CWI5440
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
1/22/98	475 (2)	126196	4/15/98	43-106	126897	4/18/98	.20	DJH2236
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
1/22/98	476 (2)	080498	4/8/98	43-68	PR075149	4/8/98	.19	CWI5440
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
1/23/98	477 (2)	080498	4/8/98	43-68	PR075149	4/8/98	.19	CWI5440
CALIBRATION DATES VERIFIED AS ACCEPTABLE								



Maine Yankee Atomic Power Plant Site Characterization

03/24/98

Removable Contamination - Gross Beta Activity

Survey Package B2300 SURFACES & STRUCTURES  
 Cable Vault Room  
 Cable Vault Room in Turbine Building 39'

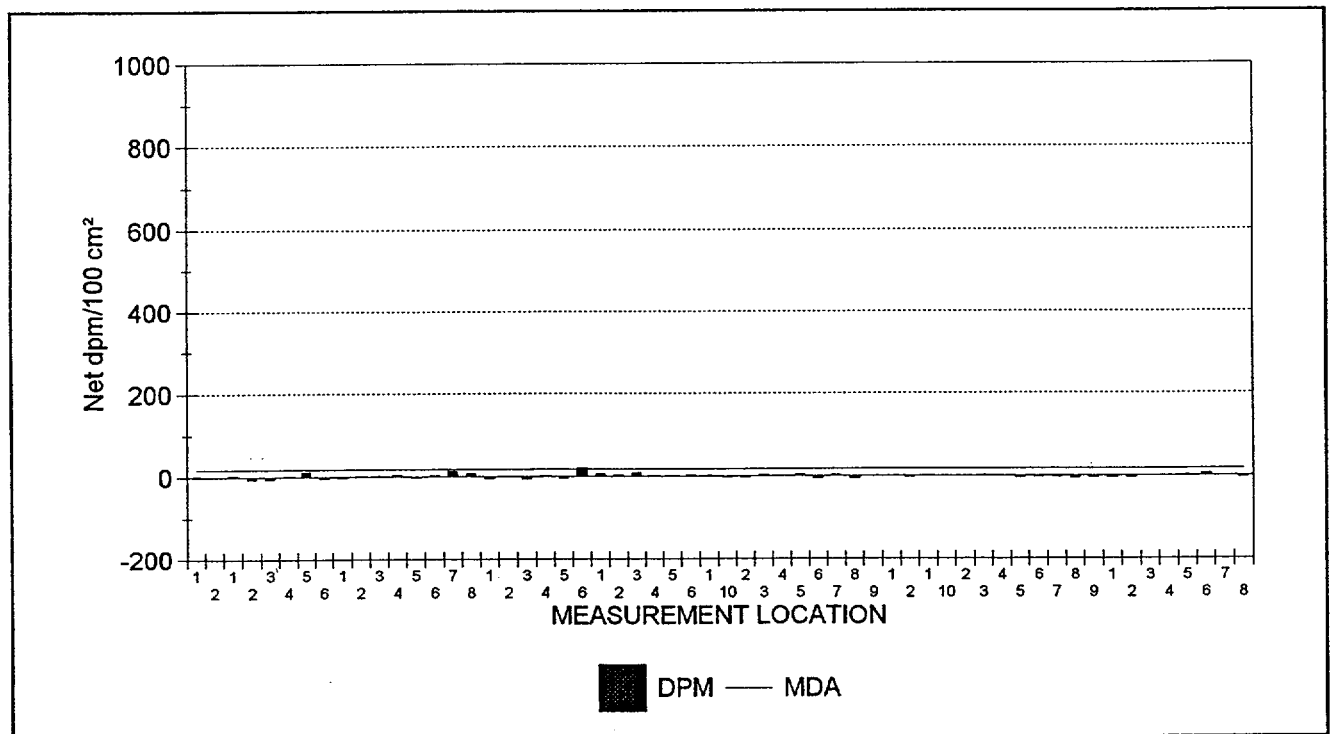
STATISTICAL SUMMARY

TESTS PERFORMED

	Net dpm/100 cm <sup>2</sup>
Mean	0.5
Maximum	21.3
Minimum	-5.6
Standard Deviation	5.0
MDA	17.6

Samples reported satisfy samples prescribed	YES
MDA <100 net dpm/100 cm <sup>2</sup>	YES
Results above 100 net dpm/100 cm <sup>2</sup>	0
Number of results above MDA	1

Samples Reported	58
Samples Prescribed	58



58 RESULTS ARE GRAPHED



Maine Yankee Atomic Power Plant Site Characterization

03/24/98

Removable Contamination - Gross Alpha Activity

Survey Package B2300 SURFACES & STRUCTURES  
 Cable Vault Room  
 Cable Vault Room in Turbine Building 39'

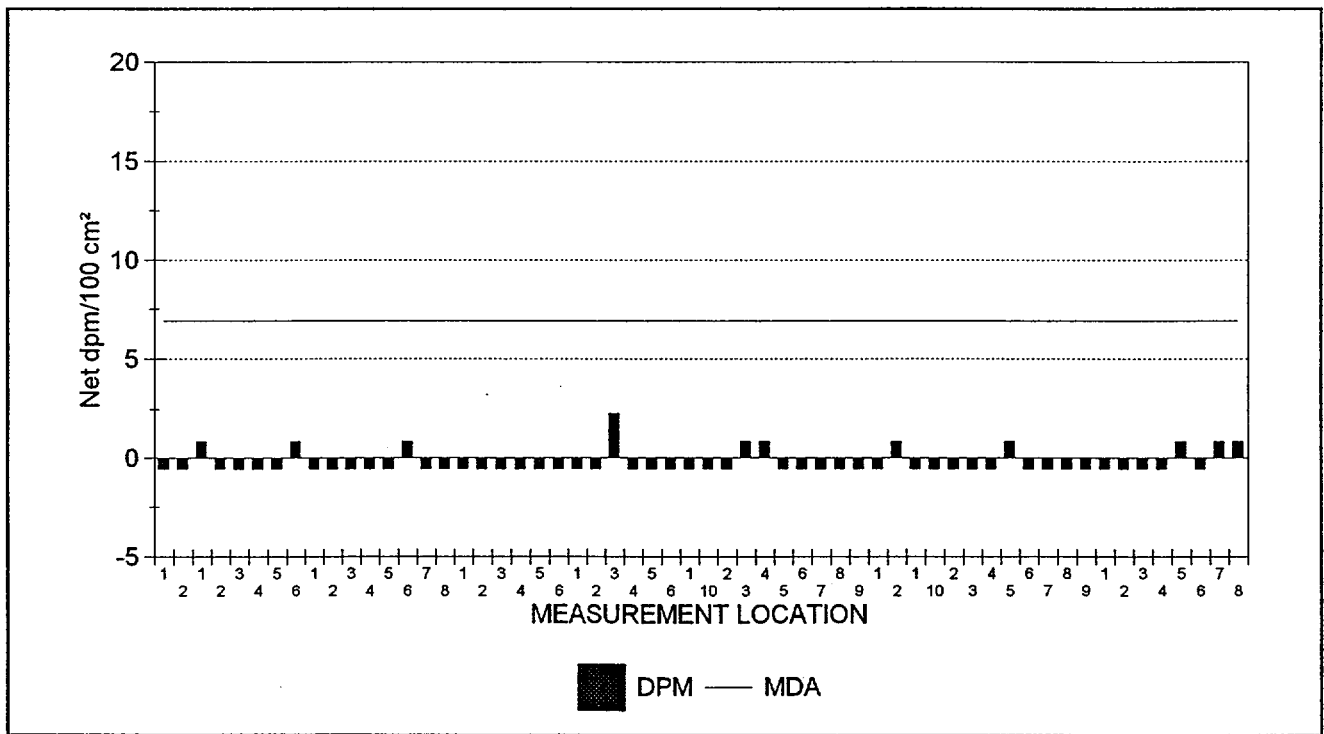
STATISTICAL SUMMARY

TESTS PERFORMED

	Net dpm/100 cm <sup>2</sup>
Mean	-0.3
Maximum	2.3
Minimum	-0.6
Standard Deviation	0.6
MDA	6.9

Samples reported satisfy samples prescribed	YES
MDA <10 net dpm/100 cm <sup>2</sup>	YES
Results above 20 net dpm/100 cm <sup>2</sup>	0
Number of results above MDA	0

Samples Reported	58
Samples Prescribed	58



58 RESULTS ARE GRAPHED



## Maine Yankee Atomic Power Plant Site Characterization

03/24/98

## Removable Contamination

Survey Package : B2300 SURFACES &amp; STRUCTURES

Cable Vault Room

Cable Vault Room in Turbine Building 39'

## RESULTS LISTING - SORTED BY SURFACE CODE

XLS FILE	UNIT	SURFACE	REASON	COUNT TIME	MSRMNT LOCATION	ALPHA	BETA
SME1B052.XLS	02	WS1	C01	2	8	0.8	-3.9
SME1B052.XLS	02	WS1	C01	2	7	0.8	-0.6
SME1B052.XLS	02	WS1	C01	2	6	-0.6	6.2
SME1B052.XLS	02	WS1	C01	2	5	0.8	1.1
SME1B052.XLS	02	WS1	C01	2	4	-0.6	-0.6
SME1B052.XLS	02	WS1	C01	2	3	-0.6	-0.6
SME1B052.XLS	02	WS1	C01	2	2	-0.6	-3.9
SME1B052.XLS	02	WS1	C01	2	1	-0.6	-3.9
SME1B052.XLS	02	FL1	C01	2	9	-0.6	-3.9
SME1B052.XLS	02	FL1	C01	2	8	-0.6	-5.6
SME1B052.XLS	02	FL1	C01	2	7	-0.6	-2.2
SME1B052.XLS	02	FL1	C01	2	6	-0.6	-2.2
SME1B052.XLS	02	FL1	C01	2	5	0.8	-3.9
SME1B052.XLS	02	FL1	C01	2	4	-0.6	-0.6
SME1B052.XLS	02	FL1	C01	2	3	-0.6	1.1
SME1B052.XLS	02	FL1	C01	2	2	-0.6	-0.6
SME1B052.XLS	02	FL1	C01	2	10	-0.6	-0.6
SME1B052.XLS	02	FL1	C01	2	1	-0.6	1.1
SME1B052.XLS	02	EQ2	C01	2	2	0.8	-2.2
SME1B052.XLS	02	EQ2	C01	2	1	-0.6	-0.6
SME1B052.XLS	02	EQ1	C01	2	9	-0.6	-0.6
SME1B052.XLS	02	EQ1	C01	2	8	-0.6	-5.6
SME1B052.XLS	02	EQ1	C01	2	7	-0.6	2.8
SME1B052.XLS	02	EQ1	C01	2	6	-0.6	-5.6
SME1B052.XLS	02	EQ1	C01	2	5	-0.6	4.5
SME1B052.XLS	02	EQ1	C01	2	4	0.8	1.1
SME1B052.XLS	02	EQ1	C01	2	3	0.8	2.8
SME1B052.XLS	02	EQ1	C01	2	2	-0.6	-2.2
SME1B052.XLS	02	EQ1	C01	2	10	-0.6	-2.2
SME1B052.XLS	02	EQ1	C01	2	1	-0.6	1.1
SME1B052.XLS	02	CL1	C01	2	6	-0.6	2.8
SME1B052.XLS	02	CL1	C01	2	5	-0.6	1.1
SME1B052.XLS	02	CL1	C01	2	4	-0.6	1.1
SME1B052.XLS	02	CL1	C01	2	3	2.3	9.5
SME1B052.XLS	02	CL1	C01	2	2	-0.6	2.8
SME1B052.XLS	02	CL1	C01	2	1	-0.6	6.2
SME1B052.XLS	01	WS1	C01	2	6	-0.6	21.3
SME1B052.XLS	01	WS1	C01	2	5	-0.6	-3.9
SME1B052.XLS	01	WS1	C01	2	4	-0.6	1.1
SME1B052.XLS	01	WS1	C01	2	3	-0.6	-5.6

NOTES: Activity reported in net dpm/100 cm<sup>2</sup>. Count times are reported in minutes.  
 Underlined values exceed the associated MDA.  
 Bold values exceed 100.00 dpm/100 cm<sup>2</sup> (beta activity) and/or 20.00 dpm/100 cm<sup>2</sup> (alpha activity).



## Maine Yankee Atomic Power Plant Site Characterization

03/24/98

## Removable Contamination

Survey Package : B2300 SURFACES & STRUCTURES  
 Cable Vault Room  
 Cable Vault Room in Turbine Building 39'

## RESULTS LISTING - SORTED BY SURFACE CODE

XLS FILE	UNIT	SURFACE	REASON	COUNT	MSRMNT	ALPHA	BETA
				TIME	LOCATION		
SME1B052.XLS	01	WS1	C01	2	2	-0.6	-0.6
SME1B052.XLS	01	WS1	C01	2	1	-0.6	-3.9
SME1B052.XLS	01	FL1	C01	2	8	-0.6	7.9
SME1B052.XLS	01	FL1	C01	2	7	-0.6	12.9
SME1B052.XLS	01	FL1	C01	2	6	0.8	2.8
SME1B052.XLS	01	FL1	C01	2	5	-0.6	-2.2
SME1B052.XLS	01	FL1	C01	2	4	-0.6	4.5
SME1B052.XLS	01	FL1	C01	2	3	-0.6	1.1
SME1B052.XLS	01	FL1	C01	2	2	-0.6	1.1
SME1B052.XLS	01	FL1	C01	2	1	-0.6	-2.2
SME1B052.XLS	01	EQ1	C01	2	6	0.8	-3.9
SME1B052.XLS	01	EQ1	C01	2	5	-0.6	11.2
SME1B052.XLS	01	EQ1	C01	2	4	-0.6	1.1
SME1B052.XLS	01	EQ1	C01	2	3	-0.6	-5.6
SME1B052.XLS	01	EQ1	C01	2	2	-0.6	-5.6
SME1B052.XLS	01	EQ1	C01	2	1	0.8	2.8
SME1B052.XLS	01	CL1	C01	2	2	-0.6	-0.6
SME1B052.XLS	01	CL1	C01	2	1	-0.6	1.1

NOTES: Activity reported in net dpm/100 cm<sup>2</sup>. Count times are reported in minutes.  
 Underlined values exceed the associated MDA.  
 Bold values exceed 100.00 dpm/100 cm<sup>2</sup> (beta activity) and/or 20.00 dpm/100 cm<sup>2</sup> (alpha activity).  
 58 results are listed.





## Maine Yankee Atomic Power Plant Site Characterization

## DATAFILE &amp; TENNELEC CALIBRATION SUMMARY

03/24/98

Removable Contamination

Survey Package : B2300 SURFACES & STRUCTURES  
Cable Vault Room  
Cable Vault Room in Turbine Building 39'

SURVEYDATE	XLS FILE	INST ID	S/N	CAL DUE	LAB TECHNICIAN
2/12/98	SME1B052.XLS	1	14131	8/7/98	RWD

CALIBRATION DATE VERIFIED AS ACCEPTABLE



Maine Yankee Atomic Power Plant Site Characterization

03/24/98

Gamma Exposure Rate Measurements At 1 Meter

Survey Package B2300 SURFACES & STRUCTURES  
 Cable Vault Room  
 Cable Vault Room in Turbine Building 39'

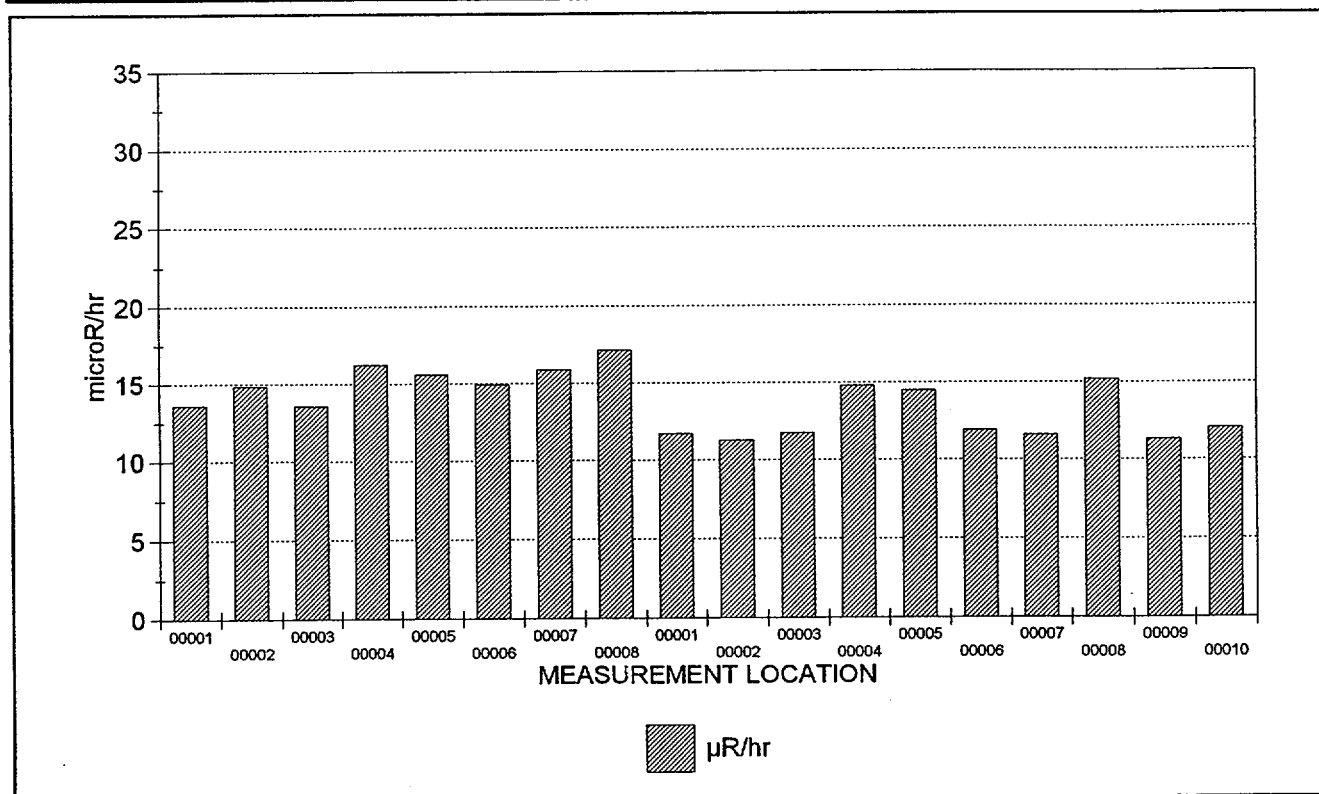
STATISTICAL SUMMARY

TESTS PERFORMED

	$\mu\text{R/hr}$
Mean	13.8
Maximum	17.1
Minimum	11.3
Standard Deviation	1.9

Samples reported satisfy samples prescribed	YES
---------------------------------------------	-----

Samples Reported	18
Samples Prescribed	18



18 RESULTS ARE GRAPHED



## Maine Yankee Atomic Power Plant Site Characterization

03/24/98

## Gamma Exposure Rate Measurements At 1 Meter

Survey Package : B2300 SURFACES & STRUCTURES  
 Cable Vault Room  
 Cable Vault Room in Turbine Building 39'

## RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	RESULT
478 (2)	01	FL1	B0001	C01	60.00	00001	13.6
478 (2)	01	FL1	B0001	C01	60.00	00002	14.8
478 (2)	01	FL1	B0001	C01	60.00	00003	13.6
478 (2)	01	FL1	B0001	C01	60.00	00004	<b>16.2</b>
478 (2)	01	FL1	B0001	C01	60.00	00005	<b>15.6</b>
478 (2)	01	FL1	B0001	C01	60.00	00006	14.9
478 (2)	01	FL1	B0001	C01	60.00	00007	<b>15.9</b>
478 (2)	01	FL1	B0001	C01	60.00	00008	<b>17.1</b>
478 (2)	02	FL1	B0001	C01	60.00	00001	11.7
478 (2)	02	FL1	B0001	C01	60.00	00002	11.3
478 (2)	02	FL1	B0001	C01	60.00	00003	11.8
478 (2)	02	FL1	B0001	C01	60.00	00004	14.8
478 (2)	02	FL1	B0001	C01	60.00	00005	14.5
478 (2)	02	FL1	B0001	C01	60.00	00006	11.9
478 (2)	02	FL1	B0001	C01	60.00	00007	11.6
478 (2)	02	FL1	B0001	C01	60.00	00008	<b>15.2</b>
478 (2)	02	FL1	B0001	C01	60.00	00009	11.3
478 (2)	02	FL1	B0001	C01	60.00	00010	12.1

NOTES: Exposure rates reported in net  $\mu\text{R/hr}$ . Count times are reported in seconds.  
 Underlined results did not meet the minimum required count time.  
 Bold values exceed 15  $\mu\text{R/hr}$ .  
 18 results are listed.



Maine Yankee Atomic Power Plant Site Characterization

**DOWNLOAD FILE & SURVEY INSTRUMENTATION CALIBRATION SUMMARY**

03/24/98

Gamma Exposure Rate Measurements At 1 Meter

Survey Package : B2300 SURFACES & STRUCTURES  
 Cable Vault Room  
 Cable Vault Room in Turbine Building 39'

SURVEY DATE	FILE #	M2350		DETECTOR			TECHNICIAN
		INST S/N	CAL DUE	MODEL	S/N	CAL DUE	
1/23/98	478 (2)	126170	6/10/98	44-2	092400	6/11/98	CWI5440

CALIBRATION DATES VERIFIED AS ACCEPTABLE



## Maine Yankee Atomic Power Plant Site Characterization

04/01/98

**CHARACTERIZATION SUMMARY**

SURVEY PACKAGE NUMBER :B2400

SURFACES &amp; STRUCTURES

## PACKAGE DESCRIPTION

## SURVEY AREA DESCRIPTION

Underground Access: Staff Bldg / Turbine Bldg

## GENERAL HISTORICAL INFORMATION (Operational history, etc.)

The Underground Access way provided an entry to the Turbine Building from the basement of the Staff Building. Construction was primarily painted and unpainted concrete.

## SUMMARY OF CHARACTERIZATION ACTIVITIES

Survey units were established for the areas as shown in the following Summary of Survey Units. Maps with the survey measurement locations for this package are included on the following pages.

Performed a scan of approximately five square meters at 33 survey measurement locations indicated on the survey map(s). This was approximately 10% of the accessible surface area.

Collected direct measurements for total beta activity at 33 survey measurement locations at the highest location identified in the scan. If an elevated location was not observed, the measurement was collected at an arbitrary location, selected by the technician, within the five square meter scanned area.

Collected smear samples to analyze for removable alpha and beta activity at 33 survey locations of direct measurements for total beta activity within the five square meter scanned area.

Collected one meter gamma exposure rate measurements at 10 survey locations for direct measurements for total beta activity on floor surfaces.

The survey result statistical summaries, graphs and results listings are shown in the following individual reports including calibration summaries for the instruments used for each measurement type.

## CHARACTERIZATION SURVEY RESULTS

- o There were no direct measurements for total beta activity above MDA (779 dpm/100cm<sup>2</sup>).
- o There was 1 measurement for removable beta activity above MDA (17.6 dpm/100cm<sup>2</sup>) and no result greater than 100 dpm/100cm<sup>2</sup>. The maximum measurement result was 18 dpm/100cm<sup>2</sup>.
- o There were no measurements for removable alpha activity above MDA (6.9 dpm/100cm<sup>2</sup>).
- o The average and maximum one meter exposure rate measurement results were 20.3 µR/hr and 24.2 µR/hr respectively.

## REFERENCES (Documents, Interviews)



## Maine Yankee Atomic Power Plant Site Characterization

## SUMMARY OF SURVEY UNIT(S)

03/24/98

OUTPUT BATCH SN = 246

**PACKAGE B2400 SURFACES & STRUCTURES**

Underground Access: Staff Bldg/Turbine Bldg

Underground access way from the Staff Building to the Turbine Building through building basements

UNIT(S)	SURFACE(S)
01 - Underground Access: Staff Bldg to Turbine Bldg	CL1 (Ceiling) EQ1 (Equipment: Cable Tray) EQ2 (Equipment: Insulated Pipe) EQ3 (Equipment: Insulated Pipe) EQ4 (Equipment: Cable Tray) EQ5 (Equipment) FL1 (Floor) SW1 (Stairway) SW2 (Stairs) WS1 (Walls)

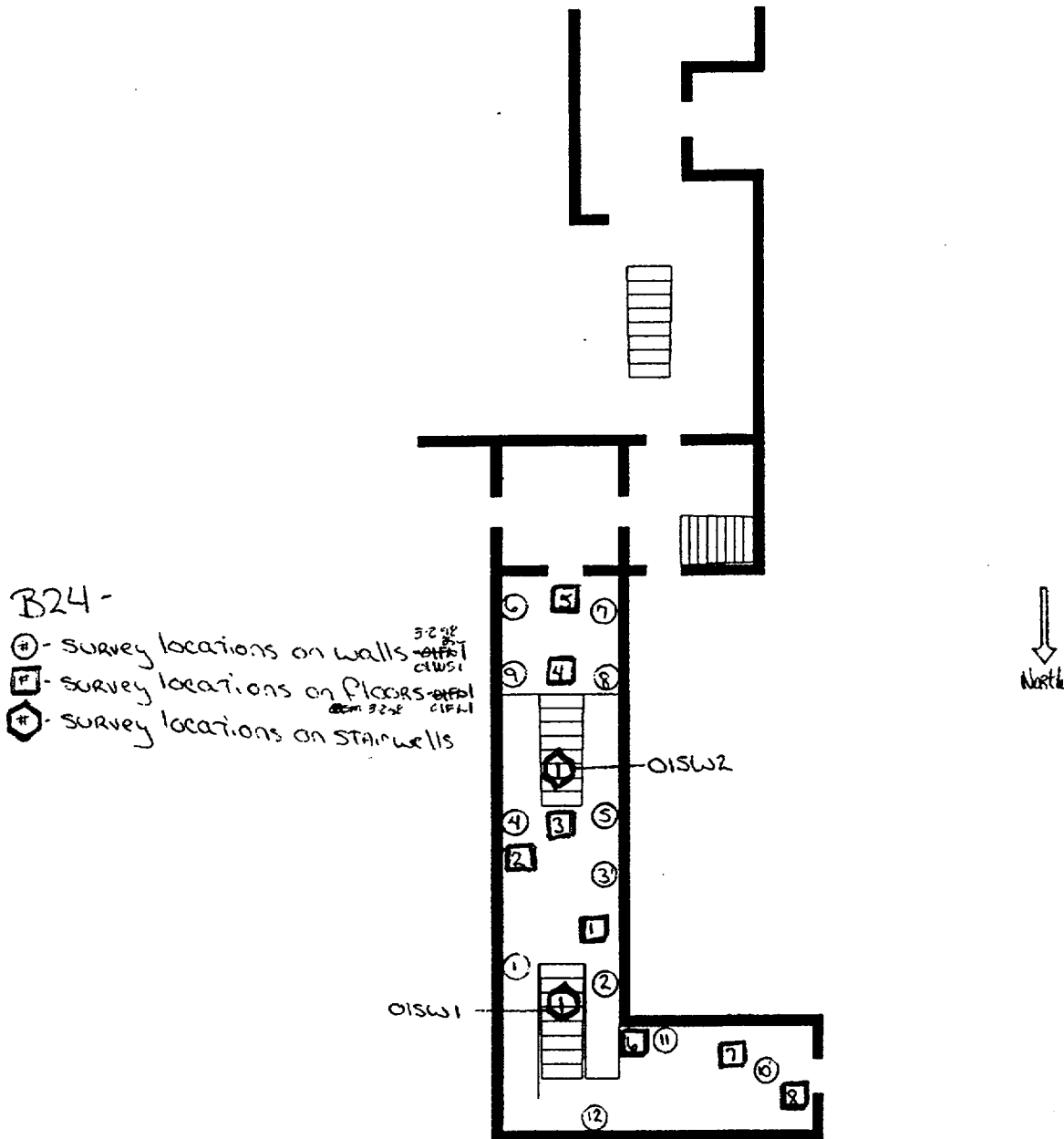
**REASON(S) CHARACTERIZATION SURVEY (C01)**

MATERIALS	MAT'L CODE	MATERIAL DESCRIPTION	BETA BKGD (dpm/100 cm <sup>2</sup> )
	B0001	CONCRETE - PAINTED (INTERIOR)	478.0
	B0002	CONCRETE - BARE (INTERIOR)	665.0
	B0004	CINDER BLOCK - BARE (INTERIOR)	665.0
	B0031	METAL - BARE	0.0
	B0047	BLANKET INSULATION	0.0

Maine Yankee Atomic Power Plant Site Characterization

SURVEY PACKAGE B2400

Staff Building Tunnel



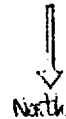
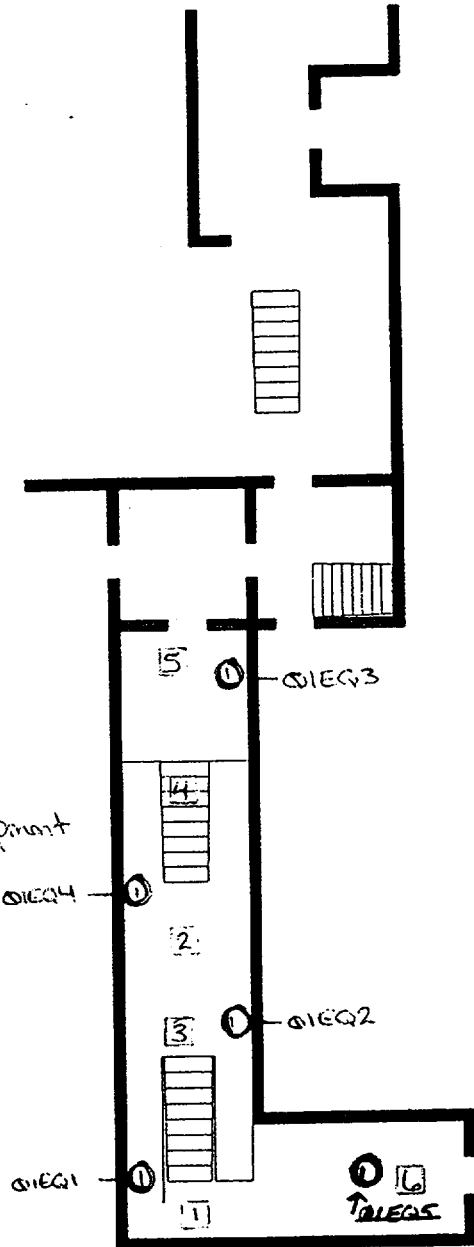
Maine Yankee Atomic Power Plant Site Characterization

SURVEY PACKAGE B2400

Staff Building Tunnel

B24-

- ⊙ - survey locations on equipment
- ⊞ - survey locations on ceilings







Maine Yankee Atomic Power Plant Site Characterization

03/24/98

Direct Measurements For Total Beta Activity

Survey Package B2400 SURFACES & STRUCTURES  
 Underground Access: Staff Bldg/Turbine Bldg  
 Underground access way from the Staff Building to the Turbine Building through building basements

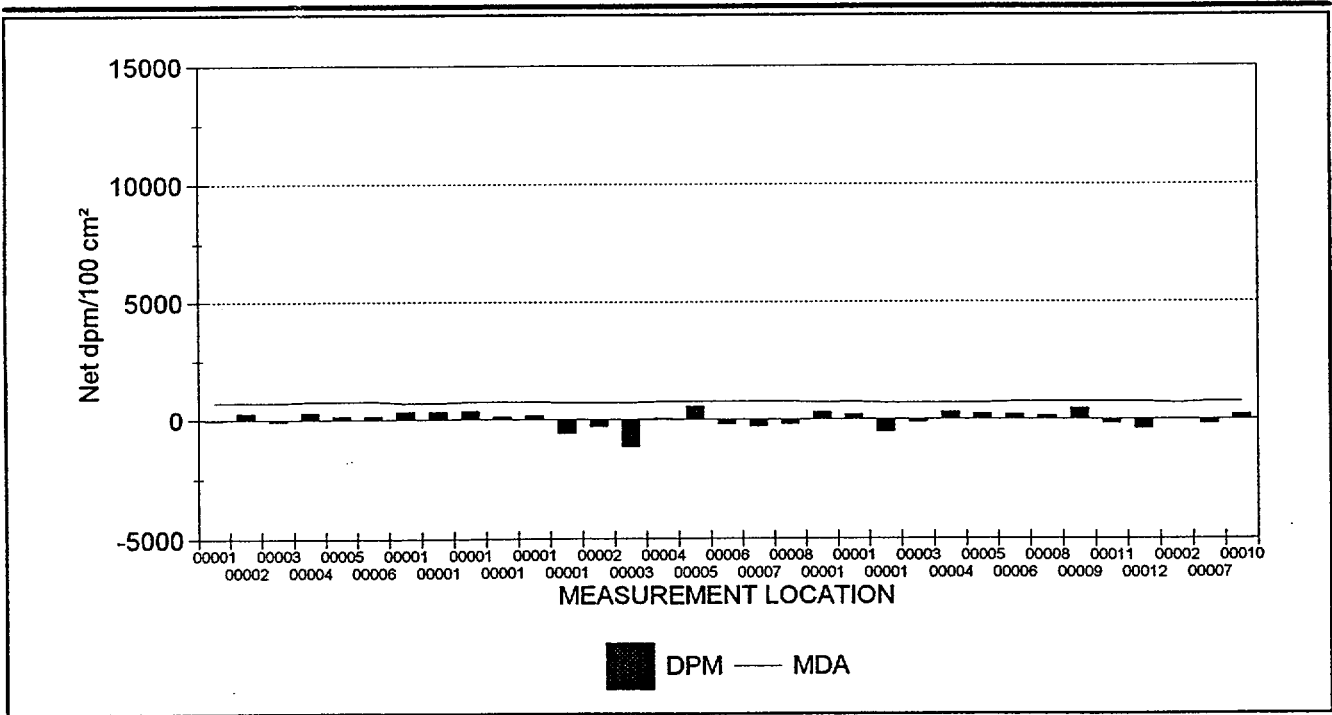
STATISTICAL SUMMARY

TESTS PERFORMED

	Net dpm/100 cm <sup>2</sup>
Mean	19.2
Maximum	575.6
Minimum	-1,148.1
Standard Deviation	359.6
MDA	779.1

Samples reported satisfy samples prescribed	YES
MDA <2000 net dpm/100 cm <sup>2</sup>	YES
Results above 2000 net dpm/100 cm <sup>2</sup>	0
Number of results above MDA	0

Samples Reported	33
Samples Prescribed	33



33 RESULTS ARE GRAPHED



## Maine Yankee Atomic Power Plant Site Characterization

03/24/98

## Direct Measurements For Total Beta Activity

Survey Package : B2400 SURFACES &amp; STRUCTURES

Underground Access: Staff Bldg/Turbine Bldg

Underground access way from the Staff Building to the Turbine Building through building basements

## RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	MDA	RESULT
462 (2)	01	CL1	B0002	C01	10	00001	728.1	-52.8
462 (2)	01	CL1	B0002	C01	10	00002	728.1	282.5
462 (2)	01	CL1	B0002	C01	10	00003	728.1	-75.1
471 (2)	01	CL1	B0002	C01	10	00004	779.1	315.7
471 (2)	01	CL1	B0002	C01	10	00005	779.1	150.3
471 (2)	01	CL1	B0002	C01	10	00006	779.1	150.3
463 (2)	01	EQ1	B0031	C01	10	00001	697.0	350.3
463 (2)	01	EQ2	B0047	C01	10	00001	697.0	350.3
473 (2)	01	EQ3	B0047	C01	10	00001	755.0	376.6
473 (2)	01	EQ4	B0031	C01	10	00001	755.0	137.9
473 (2)	01	EQ5	B0031	C01	10	00001	755.0	185.7
462 (2)	01	FL1	B0002	C01	10	00001	728.1	-589.2
462 (2)	01	FL1	B0002	C01	10	00002	728.1	-321.0
462 (2)	01	FL1	B0002	C01	10	00003	728.1	-1,148.1
471 (2)	01	FL1	B0002	C01	10	00004	779.1	55.8
471 (2)	01	FL1	B0002	C01	10	00005	779.1	575.6
471 (2)	01	FL1	B0002	C01	10	00006	779.1	-204.2
471 (2)	01	FL1	B0002	C01	10	00007	779.1	-322.3
471 (2)	01	FL1	B0002	C01	10	00008	779.1	-204.2
462 (2)	01	SW1	B0002	C01	10	00001	728.1	304.9
641 (2)	01	SW2	B0001	C01	10	00001	764.8	200.5
463 (2)	01	WS1	B0002	C01	10	00001	697.0	-539.5
463 (2)	01	WS1	B0002	C01	10	00003	697.0	-134.9
463 (2)	01	WS1	B0002	C01	10	00004	697.0	314.6
463 (2)	01	WS1	B0002	C01	10	00005	697.0	224.7
473 (2)	01	WS1	B0002	C01	10	00006	755.0	212.9
473 (2)	01	WS1	B0002	C01	10	00008	755.0	165.2
473 (2)	01	WS1	B0002	C01	10	00009	755.0	475.5
473 (2)	01	WS1	B0002	C01	10	00011	755.0	-192.9
473 (2)	01	WS1	B0002	C01	10	00012	755.0	-407.7
463 (2)	01	WS1	B0004	C01	10	00002	697.0	-0.0
473 (2)	01	WS1	B0004	C01	10	00007	755.0	-216.7
473 (2)	01	WS1	B0004	C01	10	00010	755.0	212.9

NOTES: Activity reported in net dpm/100 cm<sup>2</sup>. Count times are reported in seconds.  
 Underlined values exceed the MDA.  
 Bold values exceed 2000 dpm/100 cm<sup>2</sup>.  
 33 results are listed.



## Maine Yankee Atomic Power Plant Site Characterization

## DOWNLOAD FILE & SURVEY INSTRUMENTATION CALIBRATION SUMMARY

03/24/98

### Direct Measurements For Total Beta Activity

Survey Package : B2400 SURFACES &amp; STRUCTURES

Underground Access: Staff Bldg/Turbine Bldg

Underground access way from the Staff Building to the Turbine Building through building basements

SURVEY DATE	FILE #	M2350		DETECTOR			PRE EFF	TECHNICIAN
		INST S/N	CAL DUE	MODEL	S/N	CAL DUE		
1/21/98	462 (2)	129433	6/10/98	43-106	133864	6/5/98	.21	MEW9813
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
1/21/98	463 (2)	126170	6/10/98	43-106	133878	6/8/98	.21	MBK5187
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
1/22/98	471 (2)	129433	6/10/98	43-106	133864	6/5/98	.20	MEW9813
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
1/22/98	473 (2)	126170	6/10/98	43-106	133878	6/8/98	.20	MBK5187
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
3/1/98	641 (2)	129401	6/10/98	43-106	128924	6/8/98	.21	GLL9768
CALIBRATION DATES VERIFIED AS ACCEPTABLE								



Maine Yankee Atomic Power Plant Site Characterization

03/24/98

Removable Contamination - Gross Beta Activity

Survey Package B2400 SURFACES & STRUCTURES  
 Underground Access: Staff Bldg/Turbine Bldg  
 Underground access way from the Staff Building to the Turbine Building through building basements

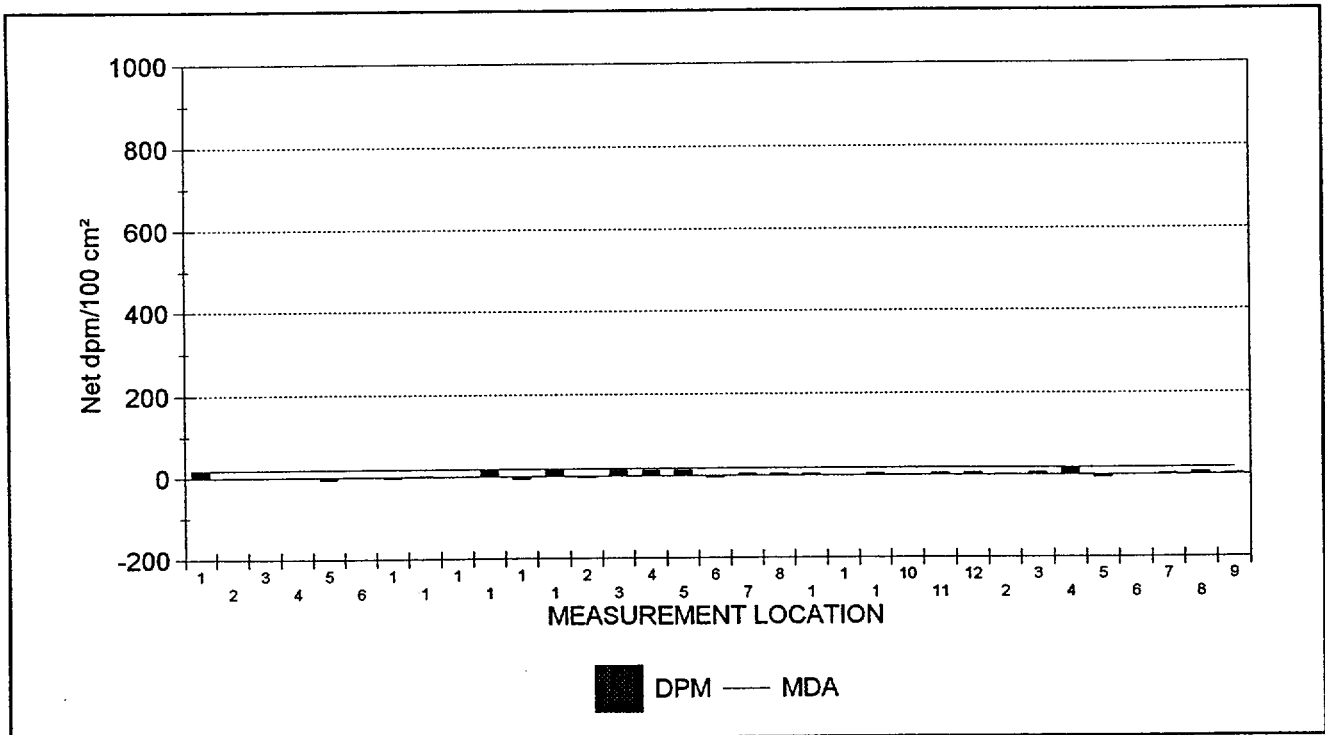
STATISTICAL SUMMARY

TESTS PERFORMED

	Net dpm/100 cm <sup>2</sup>
Mean	3.8
Maximum	18.0
Minimum	-5.6
Standard Deviation	6.7
MDA	17.6

Samples reported satisfy samples prescribed	YES
MDA <100 net dpm/100 cm <sup>2</sup>	YES
Results above 100 net dpm/100 cm <sup>2</sup>	0
Number of results above MDA	1

Samples Reported	33
Samples Prescribed	33



33 RESULTS ARE GRAPHED



Maine Yankee Atomic Power Plant Site Characterization

03/24/98

Removable Contamination - Gross Alpha Activity

Survey Package B2400 SURFACES & STRUCTURES  
 Underground Access: Staff Bldg/Turbine Bldg  
 Underground access way from the Staff Building to the Turbine Building through building basements

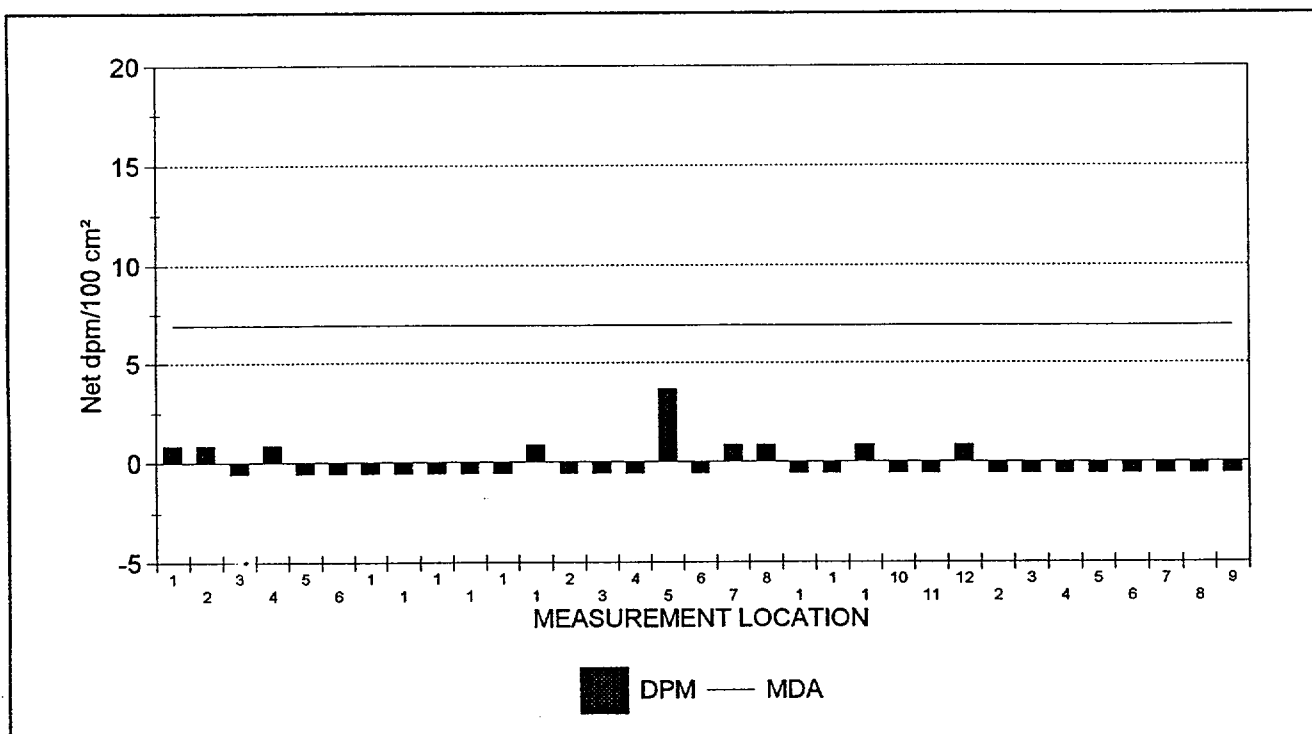
STATISTICAL SUMMARY

TESTS PERFORMED

	Net dpm/100 cm <sup>2</sup>
Mean	-0.1
Maximum	3.7
Minimum	-0.6
Standard Deviation	0.9
MDA	6.9

Samples reported satisfy samples prescribed	YES
MDA <10 net dpm/100 cm <sup>2</sup>	YES
Results above 20 net dpm/100 cm <sup>2</sup>	0
Number of results above MDA	0

Samples Reported	33
Samples Prescribed	33



33 RESULTS ARE GRAPHED



## Maine Yankee Atomic Power Plant Site Characterization

03/24/98

## Removable Contamination

Survey Package : B2400 SURFACES &amp; STRUCTURES

Underground Access: Staff Bldg/Turbine Bldg

Underground access way from the Staff Building to the Turbine Building through building basements

## RESULTS LISTING - SORTED BY SURFACE CODE

XLS FILE	UNIT	SURFACE	REASON	COUNT TIME	MSRMNT LOCATION	ALPHA	BETA
SME1B053.XLS	01	WS1	C01	2	9	-0.6	2.8
SME1B053.XLS	01	WS1	C01	2	8	-0.6	7.9
SME1B053.XLS	01	WS1	C01	2	7	-0.6	2.8
SME1B053.XLS	01	WS1	C01	2	6	-0.6	-0.6
SME1B053.XLS	01	WS1	C01	2	5	-0.6	-5.6
SME1B053.XLS	01	WS1	C01	2	4	-0.6	14.6
SME1B053.XLS	01	WS1	C01	2	3	-0.6	6.2
SME1B053.XLS	01	WS1	C01	2	2	-0.6	1.1
SME1B053.XLS	01	WS1	C01	2	12	0.8	6.2
SME1B053.XLS	01	WS1	C01	2	11	-0.6	4.5
SME1B053.XLS	01	WS1	C01	2	10	-0.6	-0.6
SME1B053.XLS	01	WS1	C01	2	1	0.8	4.5
SME1B053.XLS	01	SW2	C01	2	1	-0.6	-0.6
SME1B053.XLS	01	SW1	C01	2	1	-0.6	4.5
SME1B053.XLS	01	FL1	C01	2	8	0.8	4.5
SME1B053.XLS	01	FL1	C01	2	7	0.8	4.5
SME1B053.XLS	01	FL1	C01	2	6	-0.6	-3.9
SME1B053.XLS	01	FL1	C01	2	5	3.7	12.9
SME1B053.XLS	01	FL1	C01	2	4	-0.6	12.9
SME1B053.XLS	01	FL1	C01	2	3	-0.6	12.9
SME1B053.XLS	01	FL1	C01	2	2	-0.6	-2.2
SME1B053.XLS	01	FL1	C01	2	1	0.8	16.3
SME1B053.XLS	01	EQ5	C01	2	1	-0.6	-5.6
SME1B053.XLS	01	EQ4	C01	2	1	-0.6	14.6
SME1B053.XLS	01	EQ3	C01	2	1	-0.6	-0.6
SME1B053.XLS	01	EQ2	C01	2	1	-0.6	1.1
SME1B053.XLS	01	EQ1	C01	2	1	-0.6	-2.2
SME1B053.XLS	01	CL1	C01	2	6	-0.6	-0.6
SME1B053.XLS	01	CL1	C01	2	5	-0.6	-5.6
SME1B053.XLS	01	CL1	C01	2	4	0.8	-0.6
SME1B053.XLS	01	CL1	C01	2	3	-0.6	-0.6
SME1B053.XLS	01	CL1	C01	2	2	0.8	1.1
SME1B053.XLS	01	CL1	C01	2	1	0.8	17.9

NOTES: Activity reported in net dpm/100 cm<sup>2</sup>. Count times are reported in minutes.  
 Underlined values exceed the associated MDA.  
 Bold values exceed 100.00 dpm/100 cm<sup>2</sup> (beta activity) and/or 20.00 dpm/100 cm<sup>2</sup> (alpha activity).  
 33 results are listed.



Maine Yankee Atomic Power Plant Site Characterization

DATAFILE & TENNELEC CALIBRATION SUMMARY

03/24/98

Removable Contamination

Survey Package : B2400 SURFACES & STRUCTURES  
 Underground Access: Staff Bldg/Turbine Bldg  
 Underground access way from the Staff Building to the Turbine Building through building basements

SURVEYDATE	XLS FILE	INST ID	S/N	CAL DUE	LAB TECHNICIAN
2/12/98	SME1B053.XLS	1	14131	8/7/98	RWD
CALIBRATION DATE VERIFIED AS ACCEPTABLE					



Maine Yankee Atomic Power Plant Site Characterization

03/24/98

Gamma Exposure Rate Measurements At 1 Meter

Survey Package B2400 SURFACES & STRUCTURES  
 Underground Access: Staff Bldg/Turbine Bldg  
 Underground access way from the Staff Building to the Turbine Building through building basements

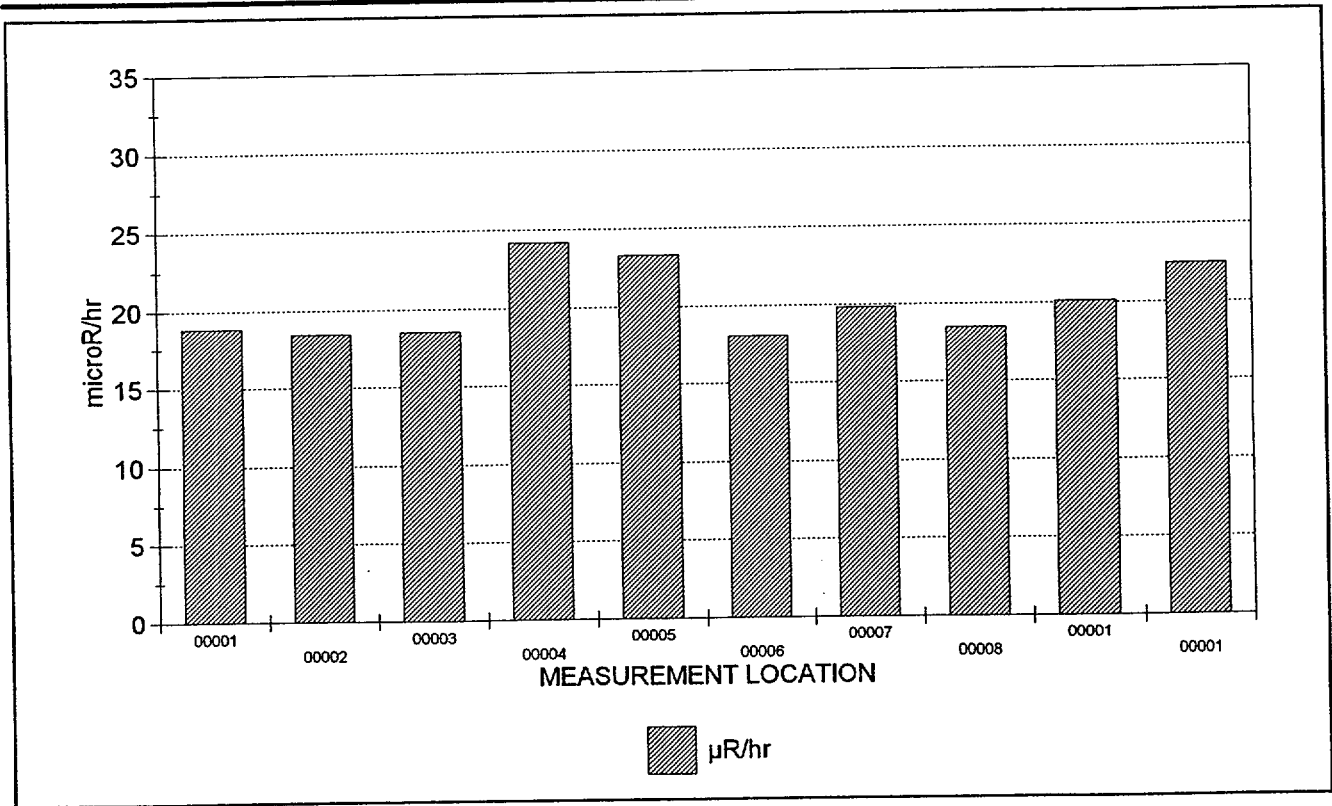
STATISTICAL SUMMARY

TESTS PERFORMED

	$\mu\text{R/hr}$
Mean	20.3
Maximum	24.2
Minimum	18.1
Standard Deviation	2.3

Samples reported satisfy samples prescribed	YES
---------------------------------------------	-----

Samples Reported	10
Samples Prescribed	10



10 RESULTS ARE GRAPHED





## Maine Yankee Atomic Power Plant Site Characterization

03/24/98

## Gamma Exposure Rate Measurements At 1 Meter

Survey Package : B2400 SURFACES &amp; STRUCTURES

Underground Access: Staff Bldg/Turbine Bldg

Underground access way from the Staff Building to the Turbine Building through building basements

## RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	RESULT
560 (2)	01	FL1	B0001	C01	60.00	00001	<u>18.8</u>
560 (2)	01	FL1	B0001	C01	60.00	00002	<u>18.5</u>
560 (2)	01	FL1	B0001	C01	60.00	00003	<u>18.6</u>
560 (2)	01	FL1	B0001	C01	60.00	00004	<u>24.2</u>
560 (2)	01	FL1	B0001	C01	60.00	00005	<u>23.3</u>
560 (2)	01	FL1	B0001	C01	60.00	00006	<u>18.1</u>
560 (2)	01	FL1	B0001	C01	60.00	00007	<u>19.9</u>
560 (2)	01	FL1	B0001	C01	60.00	00008	<u>18.5</u>
560 (2)	01	SW1	B0001	C01	60.00	00001	<u>20.1</u>
560 (2)	01	SW2	B0001	C01	60.00	00001	<u>22.5</u>

NOTES: Exposure rates reported in net  $\mu$ R/hr. Count times are reported in seconds.  
 Underlined results did not meet the minimum required count time.  
 Bold values exceed 15  $\mu$ R/hr.  
 10 results are listed.



## Maine Yankee Atomic Power Plant Site Characterization

## DOWNLOAD FILE & SURVEY INSTRUMENTATION CALIBRATION SUMMARY

03/24/98

### Gamma Exposure Rate Measurements At 1 Meter

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 Survey Package : B2400 SURFACES & STRUCTURES

Underground Access: Staff Bldg/Turbine Bldg

Underground access way from the Staff Building to the Turbine Building through building basements

SURVEY DATE	FILE #	M2350		DETECTOR			TECHNICIAN
		INST S/N	CAL DUE	MODEL	S/N	CAL DUE	
2/6/98	560 (2)	126201	4/15/98	44-2	129300	5/12/98	GLL9768

CALIBRATION DATES VERIFIED AS ACCEPTABLE

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