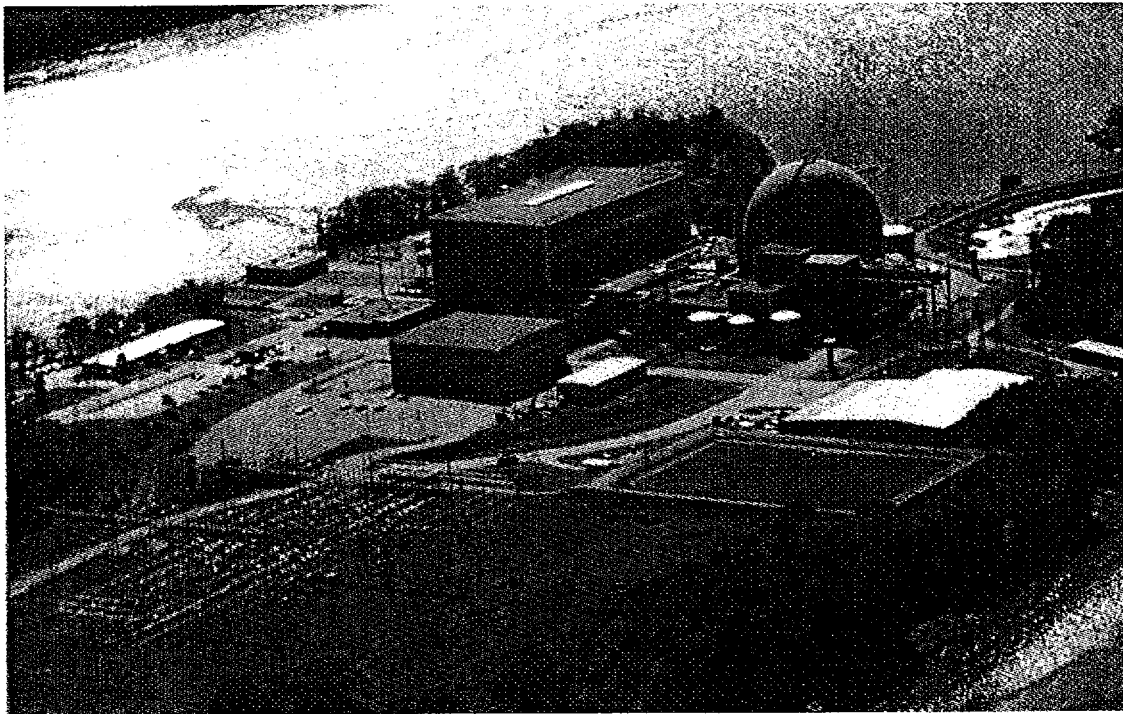


DURATEK

**CHARACTERIZATION SURVEY REPORT
for the
MAINE YANKEE ATOMIC POWER PLANT**

**VOLUME 3
RADIOLOGICAL CHARACTERIZATION RESULTS FOR
AFFECTED
STRUCTURES AND SURFACES**



**JUNE 1998
REVISION 3**

Prepared By:

**GTS Duratek
Radiological Engineering and Field Services
628 Gallaher Road
Kingston, TN 37763**

GTS DURATEK

CHARACTERIZATION SURVEY REPORT

for the

MAINE YANKEE ATOMIC POWER PLANT

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VOLUME 3:

RADIOLOGICAL CHARACTERIZATION RESULTS FOR AFFECTED STRUCTURES AND SURFACES

Prepared by: GTS Duratek, Inc.

Date 6-8-98

Reviewed by: Signature on File

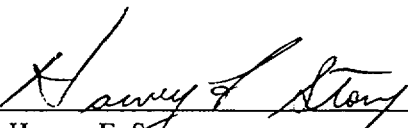
Date 6-8-98

Dave Lovett
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**RADIOLOGICAL CHARACTERIZATION RESULTS FOR AFFECTED STRUCTURES
AND SURFACES**

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RADIOLOGICAL CHARACTERIZATION RESULTS FOR AFFECTED STRUCTURES AND SURFACES

1.0 BACKGROUND INFORMATION

GTS Duratek prepared this Characterization Survey Report for the Maine Yankee Atomic Power Company (MYAPCO) to document the results of the characterization survey of the Maine Yankee Atomic Power Plant (MYAPP). The Characterization Survey Report comprises the nine volumes listed in Table 1-1 below. Volume 1 of the Report provides the programmatic information relevant to volumes 2 through 7. This volume (3) provides the characterization results for Group A, Affected Structures and Surfaces.

**Table 1-1
Characterization Survey Report Volumes**

Volume No.	Description
1	Characterization Survey Description
2	Radiological Characterization Results for Unaffected Structures and Surfaces, including Structural Background Survey
3	Radiological Characterization Results for Affected Structures and Surfaces
4	Radiological Characterization Results for Unaffected Systems
5	Radiological Characterization Results for Affected Systems
6	Radiological Characterization Results for Affected and Unaffected Environs, including Environs Background Survey
7	Hazardous Materials Characterization
8	Maine Yankee Reactor Vessel Activation Analysis to Support Site Characterization
9	Asbestos Quantity Survey

2.0 SITE INFORMATION

Volume 1, Section 2 of this Characterization Survey Report describes the Maine Yankee Atomic Power Plant site.

3.0 CHARACTERIZATION SURVEY OVERVIEW

Volume 1, Section 3 of this Characterization Survey Report provides an overview of the general survey process, including objectives, organization and responsibilities, instrumentation, planning, survey techniques, survey package implementation, sample analysis and quality control, characterization data review and reporting, and quality assurance. This section provides an overview of the survey of affected structures and surfaces.

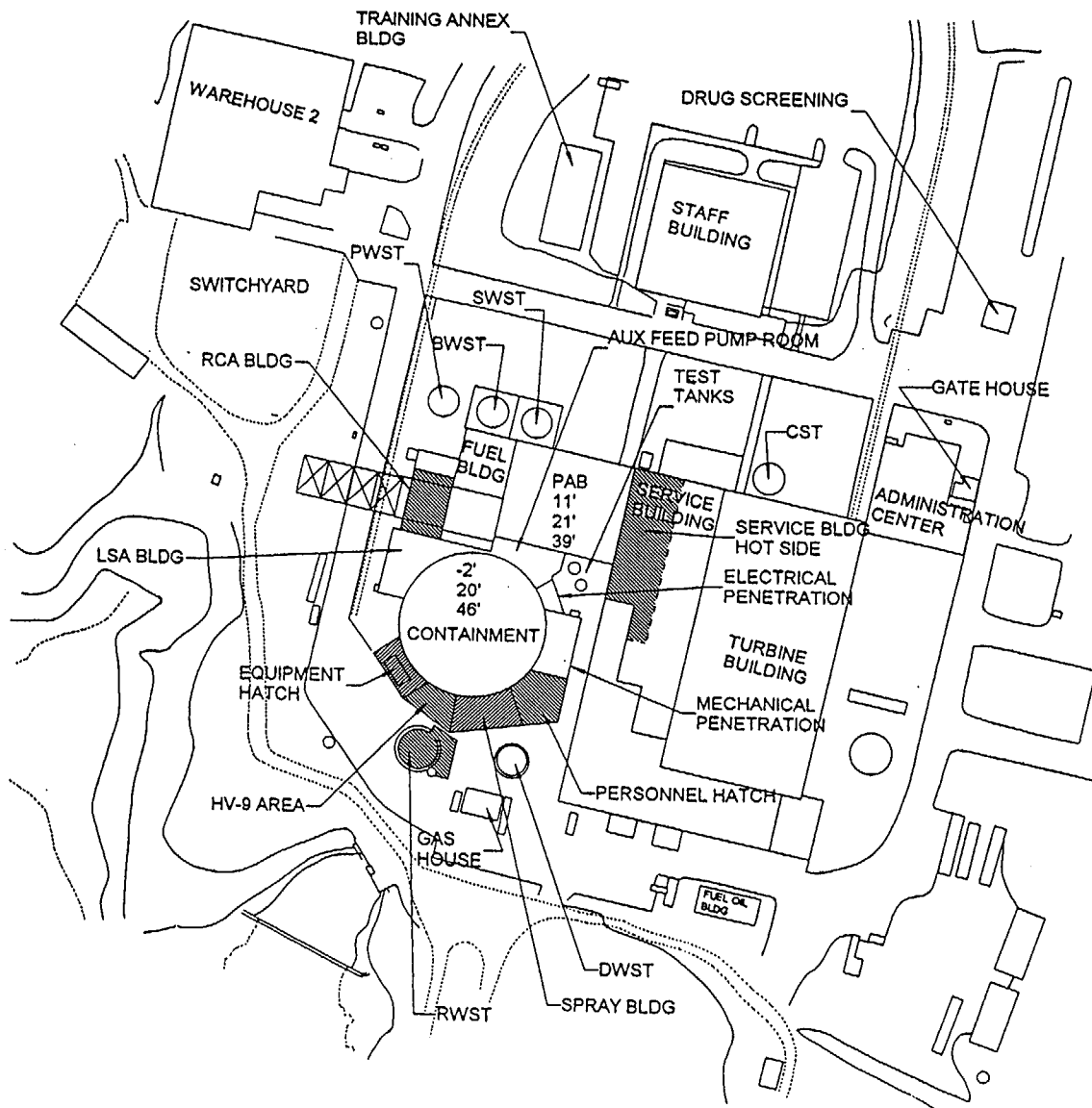
Project personnel used plant historical data, site walkdowns, assistance from Maine Yankee staff, and previous GTS Duratek experience to identify 25 areas presumed to be radiologically affected by plant operations. The site map in Figure 3-1 shows the area locations. The survey package prepared for each area described the survey area, its history and use, and the quantity and type of measurements and samples to be collected. For affected structures and surfaces, the surveys normally included direct beta, removable alpha and beta, and exposure rate measurements.

Due to elevated background dose rates in most areas surveyed, the survey technician measured beta activity by taking a background measurement with a shielded detector, and a direct measurement without the shield, at each survey location. The background measurement was subtracted from the direct measurement to provide net beta activity.

Dose rates in some areas were too high to perform meaningful direct measurements. These areas included the Primary Loop and Pressurizer Cubicles in containment, portions of the Auxiliary Building, Pipe Tunnels, and Waste Storage Buildings (LSA Building). The survey technicians took core samples from the floors in these areas to a low dose area, and sectioned them to determine both the general floor activity at the sample location, and the depth of residual radioactivity penetration into the floor. Survey package A9900 consists of these core samples.

Survey package A9901 included concrete core samples from the containment crane wall. Survey package A9902 included concrete core samples from the bioshield and containment cavity metal scrapings. The 41 concrete core samples from survey package A9901 and A9902 were analyzed for all gamma emitting fission and activation products using gamma spectroscopy. The three metal scrapings samples were analyzed for all gamma emitting fission and activation products using gamma spectroscopy, and for Fe-55.

Figure 3-1



4.0 SURVEY FINDINGS AND RESULTS

Table 4-2 lists the affected structures and surfaces survey packages. Although originally assumed to be affected, some areas showed only low levels of contamination. These included the Test Tanks Area, Electrical Penetration Room, Mechanical Penetration Room, Personnel Hatch, Equipment Hatch, Primary Water Storage Tank Area, Auxiliary Feed Pump Room, HV-9 Area, and Demineralized Water Storage Tank Area.

Appendix A contains a characterization report for each survey package listed in Table 4.2-2. Each report contains the following components:

- Characterization Summary,
- Summary of Survey Units,
- Map(s) representing the survey area,
- Statistical Summary and Graph for each measurement type,
- Results Listing Report for each measurement type, and
- Download File & Survey Instrumentation Calibration Summary for each measurement type.

The Characterization Summary contains the survey package description and general historical information on the survey area, including equipment, operating history, construction and coating materials, and past contamination incidents. The Characterization Summary also contains a summary of characterization activities, characterization survey results and, if available, references (e.g., documents, interviews).

The Summary of Survey Units contains the survey package description (e.g., building and elevation), lists the survey units within each survey area (i.e., area, room, or equipment identification), the surfaces (i.e., ceiling, equipment, floor, walls) within each unit, if applicable and the survey reason with code. The Summary of Survey Units also includes a list of materials in each survey area (e.g., concrete, metal) and the background values for each that were used to correct gross measurements.

The Survey Map or Drawing is a representative diagram of the survey area with measurement locations noted.

The Statistical Summary and Graph presents statistics and a graph of results for each type of measurement (direct measurements for total beta activity, removable alpha and beta activity and exposure rate measurements) performed for the survey area. Statistics typically include: mean, maximum, minimum, standard deviation, minimum detectable activity calculated for the specified data set and measurement type, number of samples reported, and number of samples prescribed. Various tests were performed for each data set and measurement type reported.

RADIOLOGICAL CHARACTERIZATION RESULTS FOR AFFECTED STRUCTURES AND SURFACES

A Results Listing Report is presented with each Statistical Summary and Graph for each applicable type of measurement (direct measurements for total beta activity, removable alpha and beta activity, and exposure rate). The Results Listing Report contains the corrected data and location information for each measurement. The results of direct measurements for total beta activity are reported in net dpm per 100 cm² after subtracting the background value for the material of construction. The results of the smear samples for removable alpha and beta activity are reported in net dpm/100 cm² from the low background alpha and beta counter instrument. The results of exposure rate measurements are reported in net μ R/hr (micro R per hour). The exposure rates have not been corrected for background from materials of construction.

A Download File & Survey Instrumentation Calibration Summary is presented with each Statistical Summary and Graph for each type of measurement. The Download File & Survey Instrumentation Calibration Summary provides survey date, file number (Download #- Station #), detector model number, instrument and detector serial numbers and calibration due date(s) and technician's identification number for each instrument and detector combination used to collect data.

For the Survey Package A9900 core samples, the results listing for each location includes the file number, L7 number, slice number, thickness of slice, depth of slice, and net beta activity in dpm/100cm².

For each core sample location in Survey Packages A9901 and A9902, tables and graphs show the depth profile obtained for Eu-152. The individual core sample slice analysis result reports from DE&S are included. Each core sample had a two and one-half inch diameter and was one-half inch thick. The L8 code identifies the depth of the sample as follows:

00001 - 0 to 1/2"
00002 - 1/2 to 1"
00003 - 1 to 1 1/2"
00004 - 1 1/2 to 2"
00005 - 2 to 2 1/2"
00006 - 2 1/2 to 3"

**RADIOLOGICAL CHARACTERIZATION RESULTS FOR AFFECTED STRUCTURES
AND SURFACES**

Table 4-1

PACKAGE NUMBER	GROUP "A" Affected Structures and Surfaces Survey Packages
A0100	Containment Building - Elevation -2 ft.
A0200	Containment Building - Elevation 20 ft.
A0300	Containment Building - Elevation 46 ft
A0400	Fuel Building - Elevation 21 ft.
A0500	Demineralized Water Storage Tank TK-21 - Elevation 21 ft.
A0600	Primary Auxiliary Building - Elevation 11 ft.
A0700	Primary Auxiliary Building - Elevation 21 ft.
A0800	Primary Auxiliary Building - Elevation 36 ft.
A0900	Service Building Hot Side - Elevation 21 ft.
A1100	Low Level Waste Storage Building - Elevation 21 ft.
A1200	RCA Building - Elevation 21 ft.
A1300	Equipment Hatch Area - Elevation 21 ft.
A1400	Personnel Hatch Area - Elevation 21 ft.
A1500	Mechanical Penetration Room - Elevation 21 ft.
A1600	Electrical Penetration Room - All Elevations
A1700	Containment Spray Building - All Elevations
A1800	Auxiliary Feed Pump Room - Elevation 21 ft.
A1900	HV-9 Area - Elevation 21 ft.
A2100	Refueling Water Storage Tank (RWST) TK-4 - Elevation 21 ft.
A2200	Borated Water Storage Tank (BWST) - Elevation 21 ft.
A2300	Processed Water Storage Tank (PWST) - Elevation 21 ft.
A2400	Test Tanks 14A/14B -Elevation 21 ft.
A9900	Concrete core contamination profile sampling
A9901	Core Sampling from Containment Crane Wall
A9902	Core Sampling from the Bioshield



Maine Yankee Atomic Power Plant Site Characterization

CHARACTERIZATION SUMMARY

06/05/98

SURVEY PACKAGE NUMBER :A0100

SURFACES & STRUCTURES

PACKAGE DESCRIPTION
General Area

Containment Building - Elevation -2 ft.

SURVEY AREA DESCRIPTION
Containment Building - (-2) ft

GENERAL HISTORICAL INFORMATION (Operational history, etc.)

The Containment Building was constructed in 1968. The various structures and systems contained in the building are too numerous to list in this section. The -2 ft elevation is the bottom floor of the building, and provides access to the primary coolant loops, steam generators, and pressurizer. All loops are posted High Radiation Area, and the whole building is posted Contaminated area. Direct measurements were restricted to the Annulus, and other surfaces not associated with radiologically posted system components.

SUMMARY OF CHARACTERIZATION ACTIVITIES

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

Collected 64 direct measurements for total beta activity at the survey measurement locations indicated in the results listing report. Due to elevated background radioactivity in the survey area, a scan of a two meter area encompassing each survey measurement location was not performed. Each direct measurement for total beta activity was accompanied by a corresponding background measurement at the same location. The background was used in the calculation of net dpm/100cm².

Collected smear samples to analyze for removable alpha and beta activity at the same 64 survey locations as the direct measurements for total beta activity.

Collected one meter exposure rate measurements at 15 survey locations indicated in the results listing report.

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 57 direct measurements for total beta activity above 2000 dpm/100cm². There were 43 direct measurements for total beta activity above the individual measurements' MDA (Maximum MDA was 30,453 dpm/100cm²). The maximum measurement result was 1,970,975 dpm/100cm².
- o There were 51 measurements for removable beta activity above MDA (33.2 dpm/100cm²) and 33 results greater than 100 dpm/100cm². The maximum measurement result was 4,282 dpm/100cm².
- o There were no measurements for removable alpha activity above MDA (8.4 dpm/100cm²).
- o The average and maximum exposure rate measurement results were 2.4 mR/hr and 4.1 mR/hr, respectively.

REFERENCES (Documents, Interviews)



Maine Yankee Atomic Power Plant Site Characterization

SUMMARY OF SURVEY UNIT(S)

06/05/98

OUTPUT BATCH SN = 264

PACKAGE A0100 SURFACES & STRUCTURES

Containment Building - Elevation -2 ft.

General Area

UNIT(S)

01 - Elevation -2 ft. Containment Building

SURFACE(S)

CL1 (*Note* The ceiling measurements will not be taken because the ceiling is too high and is high radiation area.)

EQ1 (Equipment)

FL1 (Floor)

SW1 (Stairs)

SW2 (Stairs)

WS1 (Outside annulus wall)

WS2 (Inside annulus wall)

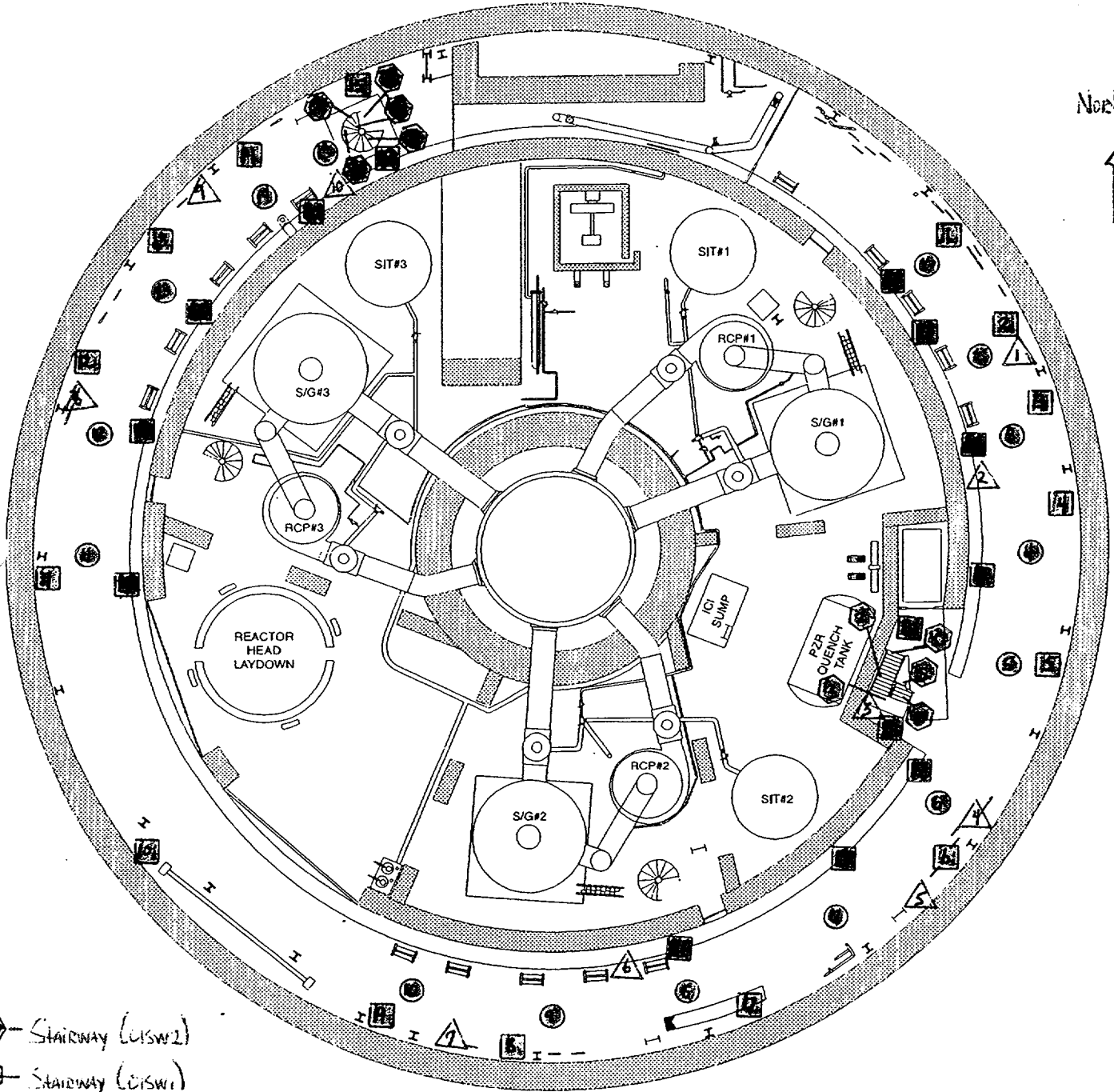
REASON(S) CHARACTERIZATION SURVEY (C01)







MATERIALS	MAT'L CODE	MATERIAL DESCRIPTION	BETA BKGD (dpm/100 cm ²)
	B0001	CONCRETE - PAINTED (INTERIOR)	478.00
	B0031	METAL - BARE	0.00
	B0036	METAL - PAINTED	0.00
	B9999	OTHER	0.00

Containment Building -2ft

Package A0100

North

-  - Stairway (CISW2)
-  - Stairway (CISW1)
-  - Equipment (CIEG1)
-  - Walls (CISW1)
-  - Walls (CISW2)
-  - Floors (CIP1)



Maine Yankee Atomic Power Plant Site Characterization

03/31/98

Direct Measurements For Total Beta Activity

Survey Package A0100 SURFACES & STRUCTURES
 Containment Building - Elevation -2 ft.
 General Area

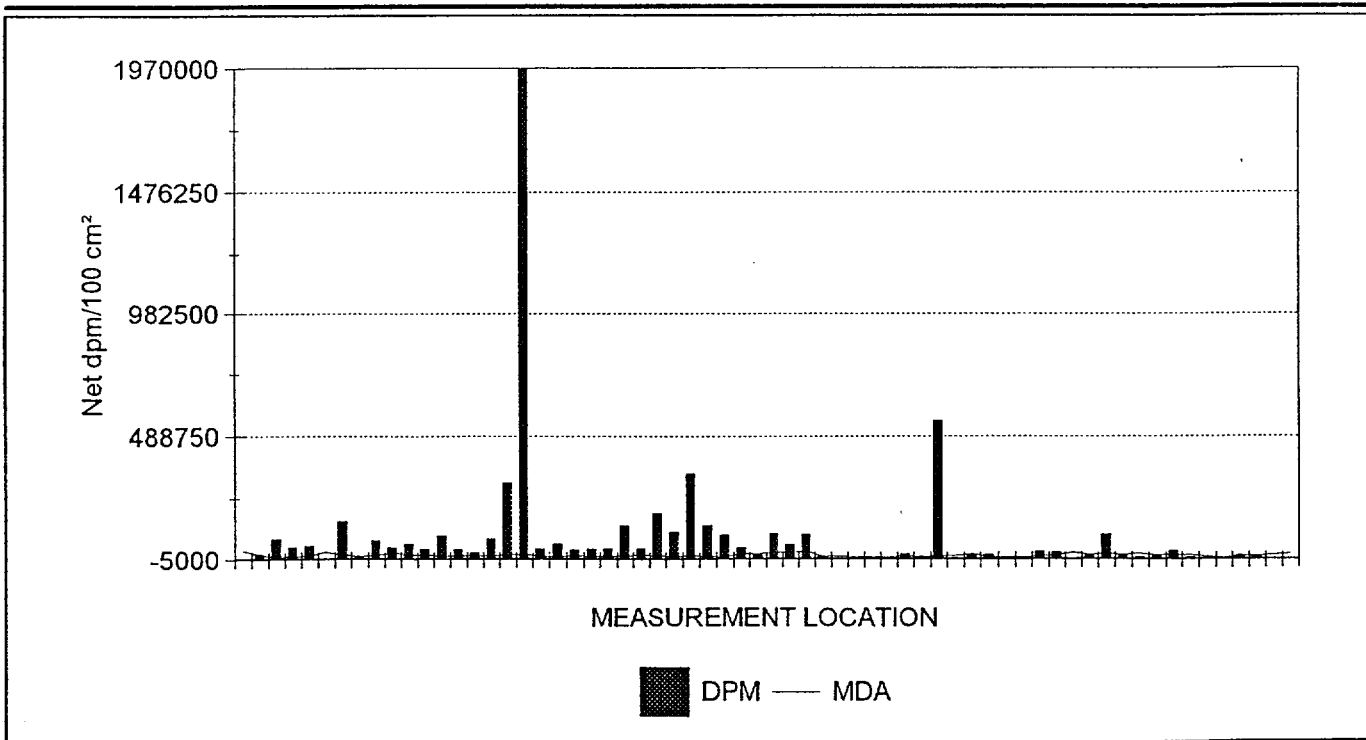
STATISTICAL SUMMARY

TESTS PERFORMED

	Net dpm/100 cm ²
Mean	81,976.3
Maximum	1,970,974.8
Minimum	-228,000.6
Standard Deviation	259,134.5
MDA	30,452.8

Samples reported satisfy samples prescribed	YES
MDA <2000 net dpm/100 cm ²	NO
Results above 2000 net dpm/100 cm ²	57
Number of results above MDA	43

Samples Reported	64
Samples Prescribed	64



64 RESULTS ARE GRAPHED

Maine Yankee Atomic Power Plant Site Characterization

03/31/98

Direct Measurements For Total Beta Activity

Survey Package : A0100 SURFACES & STRUCTURES
 Containment Building - Elevation -2 ft.
 General Area

RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	MDA	RESULT
516 (2)	01	EQ1	B0036	C01	60	00001	30,452.	-6,249.8
516 (2)	01	EQ1	B0036	C01	60	00002	14,656.	<u>17,013.2</u>
516 (2)	01	EQ1	B0036	C01	60	00003	6,425.1	<u>79,395.1</u>
516 (2)	01	EQ1	B0036	C01	60	00004	8,852.3	<u>47,509.8</u>
516 (2)	01	EQ1	B0036	C01	60	00005	11,442.	<u>50,692.5</u>
516 (2)	01	EQ1	B0036	C01	60	00006	26,942.	-228,000.6
516 (2)	01	EQ1	B0036	C01	60	00007	12,471.	<u>149,647.1</u>
516 (2)	01	EQ1	B0036	C01	60	00008	9,342.8	<u>8,796.0</u>
516 (2)	01	EQ1	B0036	C01	60	00009	10,733.	<u>72,971.8</u>
516 (2)	01	EQ1	B0036	C01	60	00010	23,884.	<u>44,963.6</u>
516 (2)	01	FL1	B0001	C01	60	00001	12,736.	<u>59,299.8</u>
516 (2)	01	FL1	B0001	C01	60	00002	12,200.	<u>39,103.8</u>
516 (2)	01	FL1	B0001	C01	60	00003	9,916.8	<u>92,458.3</u>
516 (2)	01	FL1	B0001	C01	60	00004	9,207.7	<u>35,053.1</u>
516 (2)	01	FL1	B0001	C01	60	00005	9,299.3	<u>23,016.5</u>
516 (2)	01	FL1	B0001	C01	60	00006	11,503.	<u>80,132.4</u>
516 (2)	01	FL1	B0001	C01	60	00007	12,362.	<u>303,792.8</u>
516 (2)	01	FL1	B0001	C01	60	00008	18,517.	<u>1,970,974.8</u>
516 (2)	01	FL1	B0001	C01	60	00009	8,764.3	<u>38,235.8</u>
516 (2)	01	FL1	B0001	C01	60	00010	8,810.5	<u>58,836.9</u>
516 (2)	01	FL1	B0001	C01	60	00011	10,205.	<u>36,268.3</u>
516 (2)	01	FL1	B0001	C01	60	00012	7,525.5	<u>39,914.0</u>
516 (2)	01	FL1	B0001	C01	60	00013	7,351.3	<u>42,055.1</u>
516 (2)	01	FL1	B0001	C01	60	00014	9,626.5	<u>135,280.7</u>
516 (2)	01	FL1	B0001	C01	60	00015	13,624.	<u>41,360.7</u>
516 (2)	01	SW1	B0031	C01	60	00001	9,588.2	<u>182,574.1</u>
516 (2)	01	SW1	B0031	C01	60	00002	7,183.1	<u>109,486.6</u>
516 (2)	01	SW1	B0031	C01	60	00003	9,990.8	<u>343,621.2</u>
516 (2)	01	SW1	B0031	C01	60	00004	6,613.1	<u>133,386.1</u>
516 (2)	01	SW1	B0031	C01	60	00005	5,962.8	<u>95,193.1</u>
512 (2)	01	SW2	B9999	C01	60	00001	17,401.	<u>44,666.8</u>
512 (2)	01	SW2	B9999	C01	60	00002	19,448.	<u>12,324.0</u>
512 (2)	01	SW2	B9999	C01	60	00003	24,328.	<u>101,219.8</u>
512 (2)	01	SW2	B9999	C01	60	00004	23,311.	<u>56,615.5</u>
512 (2)	01	SW2	B9999	C01	60	00005	28,010.	<u>98,717.4</u>
516 (2)	01	WS1	B9999	C01	60	00001	8,157.6	<u>7,696.5</u>
516 (2)	01	WS1	B9999	C01	60	00002	8,093.9	520.8
516 (2)	01	WS1	B9999	C01	60	00003	5,342.9	<u>4,629.5</u>
516 (2)	01	WS1	B9999	C01	60	00004	4,889.8	1,967.5
516 (2)	01	WS1	B9999	C01	60	00005	4,757.7	<u>5,381.7</u>

NOTES: Activity reported in net dpm/100 cm². Count times are reported in seconds.
 Underlined values exceed the MDA.
 Bold values exceed 2000 dpm/100 cm².

Maine Yankee Atomic Power Plant Site Characterization

03/31/98

Direct Measurements For Total Beta Activity

Survey Package : A0100 SURFACES & STRUCTURES
 Containment Building - Elevation -2 ft.
 General Area

RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	MDA	RESULT
516 (2)	01	WS1	B9999	C01	60	00006	8,692.4	<u>18,170.6</u>
516 (2)	01	WS1	B9999	C01	60	00007	6,272.9	<u>6,886.3</u>
516 (2)	01	WS1	B9999	C01	60	00008	6,635.6	555,303.0
516 (2)	01	WS1	B9999	C01	60	00009	9,386.1	<u>2,777.7</u>
516 (2)	01	WS1	B9999	C01	60	00010	18,063.	<u>18,575.7</u>
516 (2)	01	WS1	B9999	C01	60	00011	6,442.5	<u>14,814.3</u>
516 (2)	01	WS1	B9999	C01	60	00012	5,229.8	<u>2,719.8</u>
516 (2)	01	WS1	B9999	C01	60	00013	6,384.5	<u>4,976.7</u>
516 (2)	01	WS1	B9999	C01	60	00014	9,090.8	<u>27,313.8</u>
516 (2)	01	WS1	B9999	C01	60	00015	12,914.	<u>25,462.0</u>
516 (2)	01	WS2	B0001	C01	60	00001	23,835.	-25,071.9
516 (2)	01	WS2	B0001	C01	60	00002	15,251.	<u>14,046.9</u>
516 (2)	01	WS2	B0001	C01	60	00003	17,278.	<u>96,972.0</u>
516 (2)	01	WS2	B0001	C01	60	00004	15,911.	<u>12,542.3</u>
516 (2)	01	WS2	B0001	C01	60	00005	17,219.	<u>5,598.2</u>
516 (2)	01	WS2	B0001	C01	60	00006	13,451.	<u>7,276.3</u>
516 (2)	01	WS2	B0001	C01	60	00007	13,415.	<u>31,638.8</u>
516 (2)	01	WS2	B0001	C01	60	00008	12,034.	<u>5,829.6</u>
516 (2)	01	WS2	B0001	C01	60	00009	7,421.5	<u>2,357.5</u>
516 (2)	01	WS2	B0001	C01	60	00010	3,069.2	<u>3,862.1</u>
516 (2)	01	WS2	B0001	C01	60	00011	9,699.0	<u>11,905.8</u>
516 (2)	01	WS2	B0001	C01	60	00012	10,781.	<u>7,449.9</u>
516 (2)	01	WS2	B0001	C01	60	00013	14,077.	-10,431.3
516 (2)	01	WS2	B0001	C01	60	00014	19,229.	-25,014.1

NOTES: Activity reported in net dpm/100 cm². Count times are reported in seconds.
 Underlined values exceed the MDA.
 Bold values exceed 2000 dpm/100 cm².
 64 results are listed.

Maine Yankee Atomic Power Plant Site Characterization

DOWNLOAD FILE & SURVEY INSTRUMENTATION CALIBRATION SUMMARY

03/31/98

Direct Measurements For Total Beta Activity

Survey Package : A0100 SURFACES & STRUCTURES
 Containment Building - Elevation -2 ft.
 General Area

SURVEY DATE	FILE #	M2350		DETECTOR			PRE EFF	TECHNICIAN
		INST S/N	CAL DUE	MODEL	S/N	CAL DUE		
1/29/98	512 (2)	126196	4/15/98	44-40	119453	4/16/98	.10	DJH2236
CALIBRATION DATES VERIFIED AS ACCEPTABI								
1/29/98	516 (2)	126201	4/15/98	44-40	119455	4/29/98	.11	BSM0490
CALIBRATION DATES VERIFIED AS ACCEPTABI								



Maine Yankee Atomic Power Plant Site Characterization

06/03/98

Removable Contamination - Gross Beta Activity

Survey Package A0100 SURFACES & STRUCTURES
 Containment Building - Elevation -2 ft.
 General Area

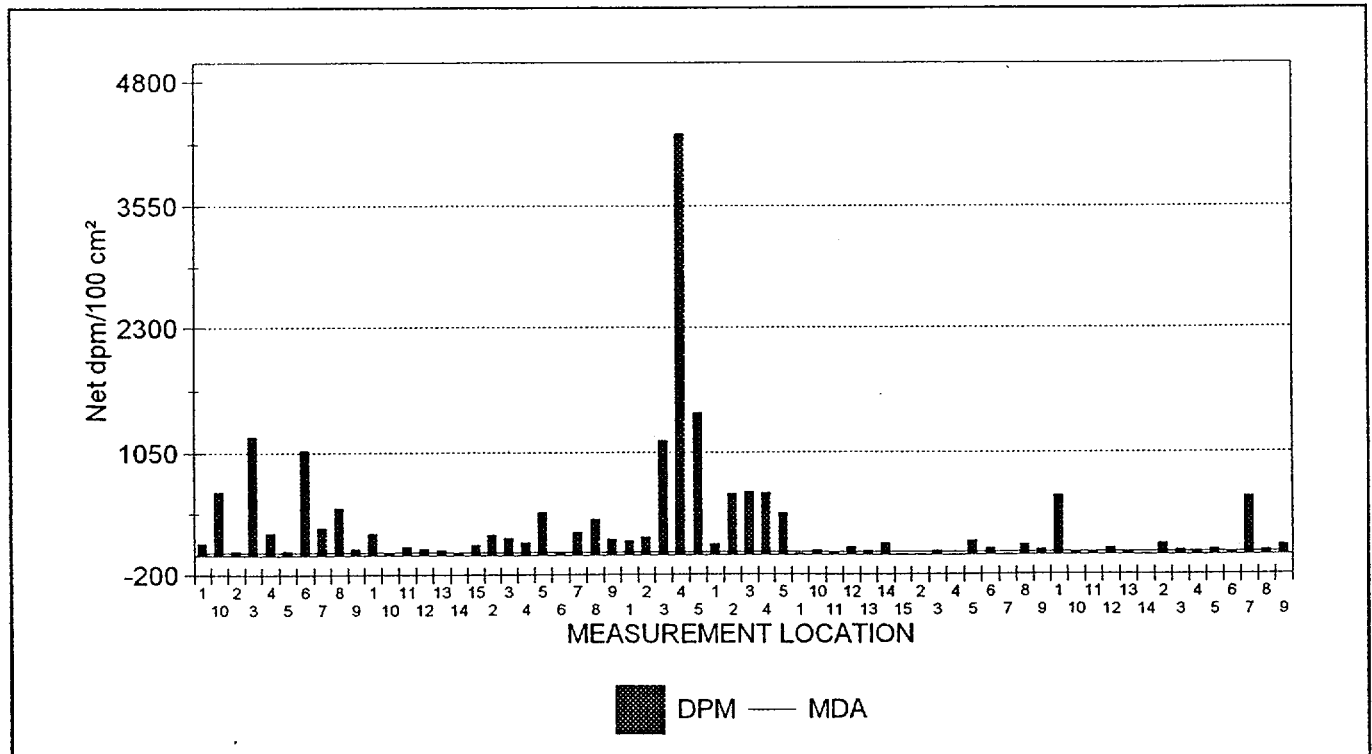
STATISTICAL SUMMARY

TESTS PERFORMED

	Net dpm/100 cm ²
Mean	296.4
Maximum	4,282.0
Minimum	1.7
Standard Deviation	598.7
MDA	33.2

MDA <100 net dpm/100 cm ²	YES
Results above 100 net dpm/100 cm ²	33
Number of results above MDA	51

Samples Reported	64
Samples Prescribed	64



64 RESULTS ARE GRAPHED



Maine Yankee Atomic Power Plant Site Characterization

06/03/98

Removable Contamination - Gross Alpha Activity

Survey Package A0100 SURFACES & STRUCTURES
 Containment Building - Elevation -2 ft.
 General Area

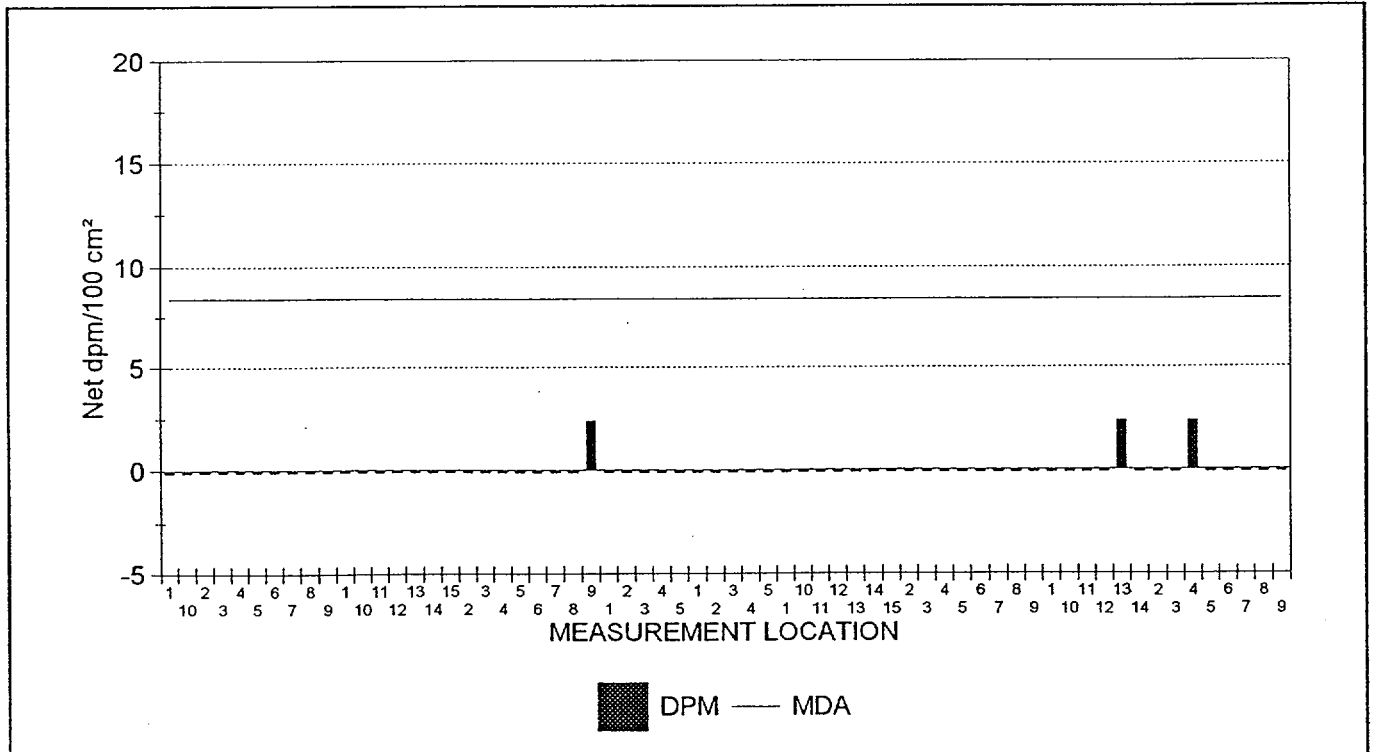
STATISTICAL SUMMARY

TESTS PERFORMED

	Net dpm/100 cm ²
Mean	0.0
Maximum	2.4
Minimum	-0.1
Standard Deviation	0.5
MDA	8.4

MDA <10 net dpm/100 cm ²	YES
Results above 20 net dpm/100 cm ²	0
Number of results above MDA	0

Samples Reported	64
Samples Prescribed	64



64 RESULTS ARE GRAPHED



Maine Yankee Atomic Power Plant Site Characterization

06/03/98

Removable Contamination

Survey Package : A0100 SURFACES & STRUCTURES
 Containment Building - Elevation -2 ft.
 General Area

RESULTS LISTING - SORTED BY SURFACE CODE

XLS FILE	UNIT	SURFACE	REASON	MSRMNT LOCATION	ALPHA	BETA
SME1E001.XLS	01	WS2	C01	9	-0.1	<u>104.2</u>
SME1E001.XLS	01	WS2	C01	8	-0.1	49.9
SME1E001.XLS	01	WS2	C01	7	-0.1	<u>598.5</u>
SME1E001.XLS	01	WS2	C01	6	-0.1	25.8
SME1E001.XLS	01	WS2	C01	5	-0.1	56.0
SME1E001.XLS	01	WS2	C01	4	2.4	37.9
SME1E001.XLS	01	WS2	C01	3	-0.1	49.9
SME1E001.XLS	01	WS2	C01	2	-0.1	<u>116.3</u>
SME1E001.XLS	01	WS2	C01	14	-0.1	7.7
SME1E001.XLS	01	WS2	C01	13	2.4	25.8
SME1E001.XLS	01	WS2	C01	12	-0.1	74.1
SME1E001.XLS	01	WS2	C01	11	-0.1	19.8
SME1E001.XLS	01	WS2	C01	10	-0.1	25.8
SME1E001.XLS	01	WS2	C01	1	-0.1	<u>610.6</u>
SME1E001.XLS	01	WS1	C01	9	-0.1	56.0
SME1E001.XLS	01	WS1	C01	8	-0.1	<u>110.2</u>
SME1E001.XLS	01	WS1	C01	7	-0.1	7.7
SME1E001.XLS	01	WS1	C01	6	-0.1	74.1
SME1E001.XLS	01	WS1	C01	5	-0.1	<u>152.4</u>
SME1E001.XLS	01	WS1	C01	4	-0.1	1.7
SME1E001.XLS	01	WS1	C01	3	-0.1	43.9
SME1E001.XLS	01	WS1	C01	2	-0.1	7.7
SME1E001.XLS	01	WS1	C01	15	-0.1	7.7
SME1E001.XLS	01	WS1	C01	14	-0.1	<u>122.3</u>
SME1E001.XLS	01	WS1	C01	13	-0.1	43.9
SME1E001.XLS	01	WS1	C01	12	-0.1	86.1
SME1E001.XLS	01	WS1	C01	11	-0.1	31.9
SME1E001.XLS	01	WS1	C01	10	-0.1	49.9
SME1E001.XLS	01	WS1	C01	1	-0.1	13.8
SME1E001.XLS	01	SW2	C01	5	-0.1	<u>429.7</u>
SME1E001.XLS	01	SW2	C01	4	-0.1	<u>634.7</u>
SME1E001.XLS	01	SW2	C01	3	-0.1	<u>646.8</u>
SME1E001.XLS	01	SW2	C01	2	-0.1	<u>628.7</u>
SME1E001.XLS	01	SW2	C01	1	-0.1	<u>116.3</u>
SME1E001.XLS	01	SW1	C01	5	-0.1	<u>1,454.6</u>
SME1E001.XLS	01	SW1	C01	4	-0.1	<u>4,282.0</u>
SME1E001.XLS	01	SW1	C01	3	-0.1	<u>1,171.3</u>
SME1E001.XLS	01	SW1	C01	2	-0.1	<u>188.6</u>
SME1E001.XLS	01	SW1	C01	1	-0.1	<u>152.4</u>
SME1E001.XLS	01	FL1	C01	9	2.4	<u>170.5</u>

NOTES: Activity reported in net dpm/100 cm².

Underlined values exceed the associated MDA.

Bold values exceed 100.00 dpm/100 cm² (beta activity) and/or 20.00 dpm/100 cm² (alpha activity).

Maine Yankee Atomic Power Plant Site Characterization

06/03/98

Removable Contamination

Survey Package : A0100 SURFACES & STRUCTURES

Containment Building - Elevation -2 ft.

General Area

RESULTS LISTING - SORTED BY SURFACE CODE

XLS FILE	UNIT	SURFACE	REASON	MSRMNT LOCATION	ALPHA	BETA
SME1E001.XLS	01	FL1	C01	8	-0.1	<u>369.5</u>
SME1E001.XLS	01	FL1	C01	7	-0.1	<u>236.8</u>
SME1E001.XLS	01	FL1	C01	6	-0.1	37.9
SME1E001.XLS	01	FL1	C01	5	-0.1	<u>441.8</u>
SME1E001.XLS	01	FL1	C01	4	-0.1	<u>134.3</u>
SME1E001.XLS	01	FL1	C01	3	-0.1	<u>182.6</u>
SME1E001.XLS	01	FL1	C01	2	-0.1	<u>212.7</u>
SME1E001.XLS	01	FL1	C01	15	-0.1	<u>110.2</u>
SME1E001.XLS	01	FL1	C01	14	-0.1	25.8
SME1E001.XLS	01	FL1	C01	13	-0.1	56.0
SME1E001.XLS	01	FL1	C01	12	-0.1	74.1
SME1E001.XLS	01	FL1	C01	11	-0.1	92.1
SME1E001.XLS	01	FL1	C01	10	-0.1	31.9
SME1E001.XLS	01	FL1	C01	1	-0.1	<u>224.8</u>
SME1E001.XLS	01	EQ1	C01	9	-0.1	74.1
SME1E001.XLS	01	EQ1	C01	8	-0.1	<u>484.0</u>
SME1E001.XLS	01	EQ1	C01	7	-0.1	<u>285.1</u>
SME1E001.XLS	01	EQ1	C01	6	-0.1	<u>1,074.8</u>
SME1E001.XLS	01	EQ1	C01	5	-0.1	49.9
SME1E001.XLS	01	EQ1	C01	4	-0.1	<u>230.8</u>
SME1E001.XLS	01	EQ1	C01	3	-0.1	<u>1,219.5</u>
SME1E001.XLS	01	EQ1	C01	2	-0.1	49.9
SME1E001.XLS	01	EQ1	C01	10	-0.1	<u>652.8</u>
SME1E001.XLS	01	EQ1	C01	1	-0.1	<u>128.3</u>

NOTES: Activity reported in net dpm/100 cm².

Underlined values exceed the associated MDA.

Bold values exceed 100.00 dpm/100 cm² (beta activity) and/or 20.00 dpm/100 cm² (alpha activity).

64 results are listed.



Maine Yankee Atomic Power Plant Site Characterization

DATAFILE & ALPHA - BETA COUNTER CALIBRATION SUMMARY

06/03/98

Removable Contamination

Survey Package : A0100 SURFACES & STRUCTURES
Containment Building - Elevation -2 ft.
General Area

SURVEYDATE	XLS FILE	INST ID	S/N	CAL DUE	LAB TECHNICIAN
2/18/98	SME1E001.XLS	1	15632	8/5/98	JWD

CALIBRATION DATE VERIFIED AS ACCEPTABLE



Maine Yankee Atomic Power Plant Site Characterization

03/29/98

Exposure Rate Measurements

Survey Package A0100 SURFACES & STRUCTURES
 Containment Building - Elevation -2 ft.
 General Area

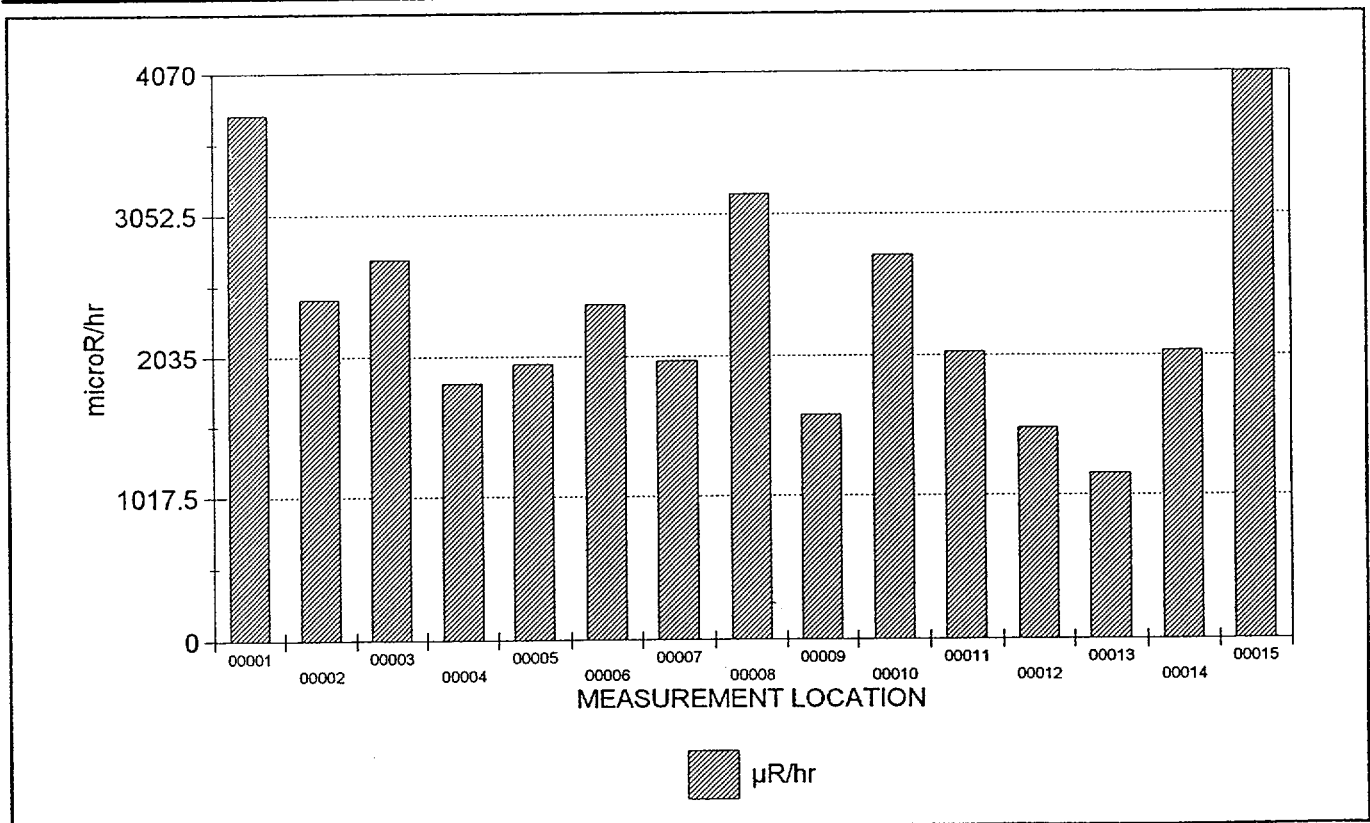
STATISTICAL SUMMARY

TESTS PERFORMED

	$\mu\text{R/hr}$
Mean	2,375.0
Maximum	4,065.1
Minimum	1,176.2
Standard Deviation	816.2

Samples reported satisfy samples prescribed YES

Samples Reported	15
Samples Prescribed	15



15 RESULTS ARE GRAPHED



Maine Yankee Atomic Power Plant Site Characterization

03/29/98

Exposure Rate Measurements

Survey Package : A0100 SURFACES & STRUCTURES
 Containment Building - Elevation -2 ft.
 General Area

RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	RESULT
515 (2)	01	FL1	B0001	C01	60.00	00001	3773.3
515 (2)	01	FL1	B0001	C01	60.00	00002	2452.0
515 (2)	01	FL1	B0001	C01	60.00	00003	2734.9
515 (2)	01	FL1	B0001	C01	60.00	00004	1838.4
515 (2)	01	FL1	B0001	C01	60.00	00005	1977.8
515 (2)	01	FL1	B0001	C01	60.00	00006	2412.3
515 (2)	01	FL1	B0001	C01	60.00	00007	1998.9
515 (2)	01	FL1	B0001	C01	60.00	00008	3192.9
515 (2)	01	FL1	B0001	C01	60.00	00009	1607.4
515 (2)	01	FL1	B0001	C01	60.00	00010	2758.4
515 (2)	01	FL1	B0001	C01	60.00	00011	2061.3
515 (2)	01	FL1	B0001	C01	60.00	00012	1504.5
515 (2)	01	FL1	B0001	C01	60.00	00013	1176.2
515 (2)	01	FL1	B0001	C01	60.00	00014	2071.1
515 (2)	01	FL1	B0001	C01	60.00	00015	4065.1

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 $\mu\text{R/hr}$.
 15 results are listed.



Maine Yankee Atomic Power Plant Site Characterization

DOWNLOAD FILE & SURVEY INSTRUMENTATION CALIBRATION SUMMARY

03/29/98

Exposure Rate Measurements

Survey Package : A0100 SURFACES & STRUCTURES
 Containment Building - Elevation -2 ft.
 General Area

SURVEY DATE	FILE #	M2350		DETECTOR			TECHNICIAN
		INST S/N	CAL DUE	MODEL	S/N	CAL DUE	
1/29/98	515 (2)	98620	3/20/98	44-38	091090	7/23/98	DRK2986

CALIBRATION DATES VERIFIED AS ACCEPTAB



Maine Yankee Atomic Power Plant Site Characterization

CHARACTERIZATION SUMMARY

04/02/98

SURVEY PACKAGE NUMBER A0200

SURFACES & STRUCTURES

PACKAGE DESCRIPTION
General Area

Containment Building - Elevation 20 ft.

 SURVEY AREA DESCRIPTION
 Containment Building - 20 ft

GENERAL HISTORICAL INFORMATION (Operational history, etc.)

The Containment Building was constructed in 1968. The various structures and systems contained in the building are too numerous to list in this section. The 20 ft. elevation is the middle floor of the building which provides access to the Head laydown area and pressurizer. Containment ventilation equipment is located in the Annulus. The Equipment and Personnel Hatches are both accessed from this elevation. All the loops are posted as High Radiation Area and the whole building is posted as Contaminated area. Direct measurements were restricted to the Annulus.

SUMMARY OF CHARACTERIZATION ACTIVITIES

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

Collected 90 direct measurements for total beta activity at the survey measurement locations indicated in the results listing report. Due to elevated background radioactivity in the survey area, a scan of a two meter area encompassing each survey measurement location was not performed. Each direct measurement for total beta activity was accompanied by a corresponding background measurement at the same location. The background was used in the calculation of net dpm/100cm².

Collected smear samples to analyze for removable alpha and beta activity at the same 90 survey locations as the direct measurements for total beta activity.

Collected one meter exposure rate measurements at 30 survey locations indicated in the results listing report.

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 SUMMARY

04/02/98

CHARACTERIZATION SURVEY RESULTS

- o There were 78 direct measurements for total beta activity above 2000 dpm/100cm². There were 73 direct measurements for total beta activity above the individual measurements' MDA (Maximum MDA was 16,277 dpm/100cm²). The maximum measurement result was 2,238,614 dpm/100cm².
 - o There were 90 measurements for removable beta activity above MDA (35 dpm/100cm²) and 79 results greater than 100 dpm/100cm². The maximum measurement result was 128,734 dpm/100cm².
 - o There were no measurements for removable alpha activity above MDA (9.7 dpm/100cm²).
 - o The average and maximum exposure rate measurement results were 0.8 mR/hr and 2.0 mR/hr, respectively.
-

REFERENCES (Documents, Interviews)



Maine Yankee Atomic Power Plant Site Characterization

SUMMARY OF SURVEY UNIT(S)

03/31/98

OUTPUT BATCH SN = 304

PACKAGE A0200 SURFACES & STRUCTURES
 Containment Building - Elevation 20 ft.
 General Area

UNIT(S)	SURFACE(S)
01 - Elevation 20 ft. Containment Building	CL1 (Ceiling *Note* The ceiling is too high and is inaccessible.) EQ1 (Equipment) FL1 (Floor) SW1 (Stairs: Main Stairway) SW2 (Stair: Spiral Stairway) WS1 (Wall) WS2 (Wall)

REASON(S) CHARACTERIZATION SURVEY (C01)

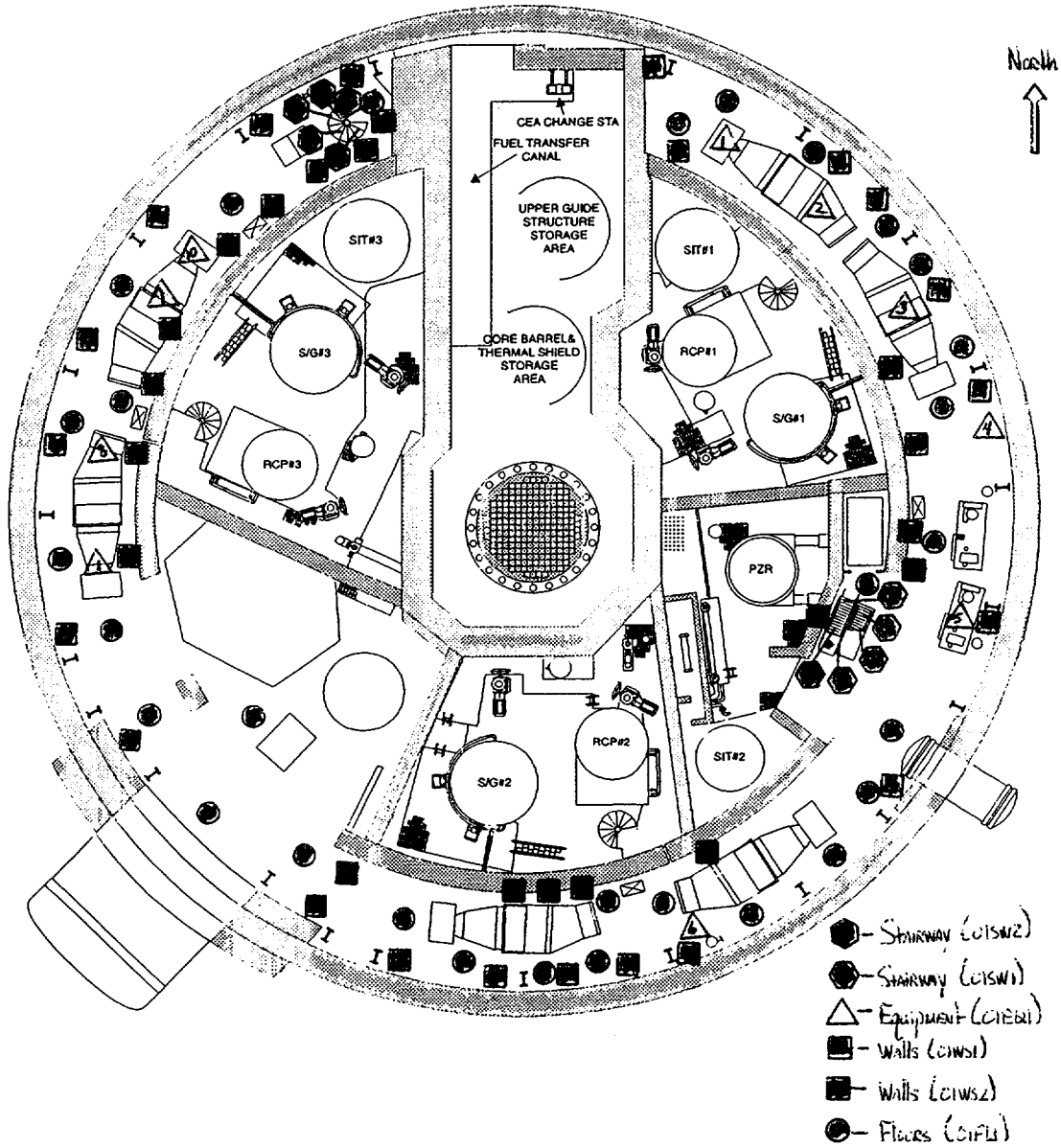
MATERIALS	MAT'L CODE	MATERIAL DESCRIPTION	BETA BKGD (dpm/100 cm ²)
	B0001	CONCRETE - PAINTED (INTERIOR)	478.0
	B0036	METAL - PAINTED	0.0
	B9999	OTHER	0.0

Maine Yankee Atomic Power Plant Site Characterization

SURVEY PACKAGE A0200

Containment Building 20ft

PACKAGE # A0200





Maine Yankee Atomic Power Plant Site Characterization

03/31/98

Direct Measurements For Total Beta Activity

Survey Package A0200 SURFACES & STRUCTURES
 Containment Building - Elevation 20 ft.
 General Area

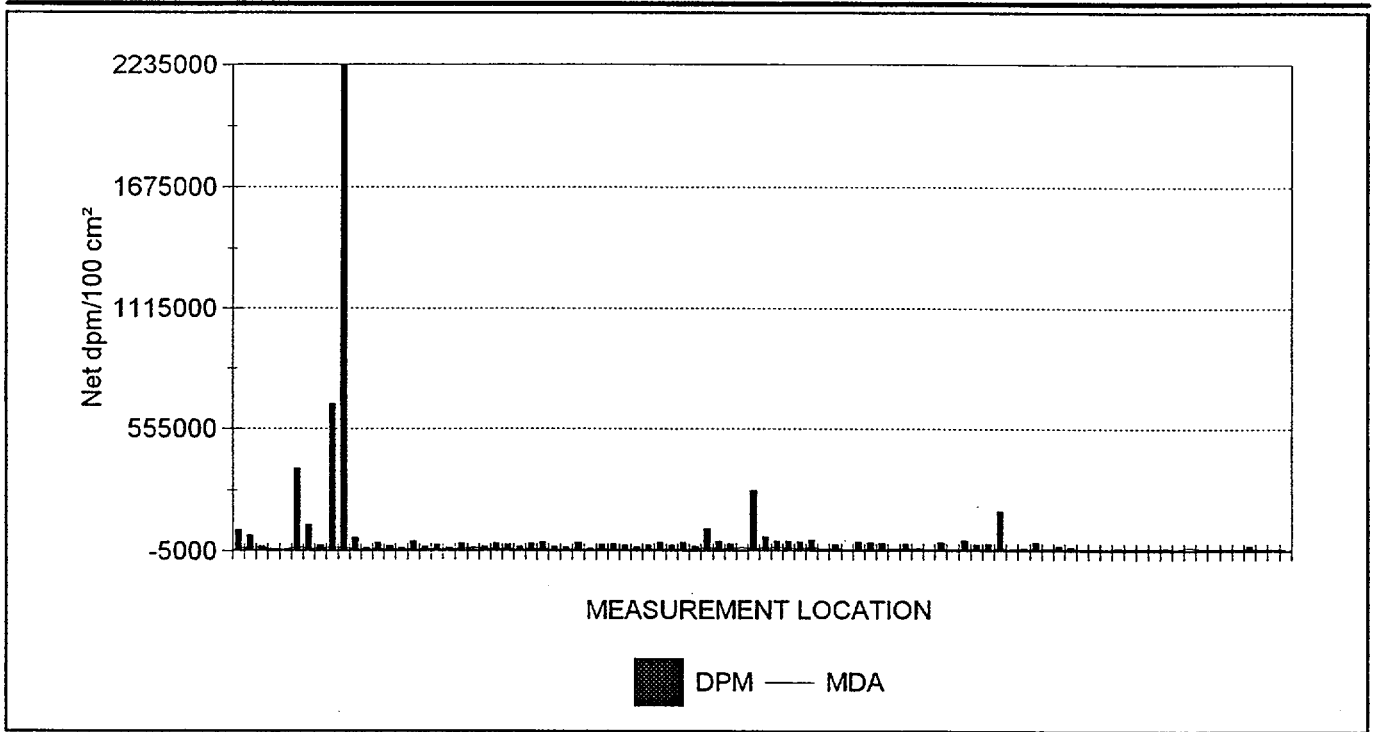
STATISTICAL SUMMARY

TESTS PERFORMED

	Net dpm/100 cm ²
Mean	62,969.5
Maximum	2,238,613.5
Minimum	-32,945.9
Standard Deviation	247,399.2
MDA	16,277.2

Samples reported satisfy samples prescribed	YES
MDA <2000 net dpm/100 cm ²	NO
Results above 2000 net dpm/100 cm ²	78
Number of results above MDA	73

Samples Reported	90
Samples Prescribed	90



90 RESULTS ARE GRAPHED

Maine Yankee Atomic Power Plant Site Characterization

03/31/98

Direct Measurements For Total Beta Activity

Survey Package : A0200 SURFACES & STRUCTURES
 Containment Building - Elevation 20 ft.
 General Area

RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	MDA	RESULT
513 (2)	01	EQ1	B9999	C01	60	00001	6,221.5	<u>93,504.7</u>
513 (2)	01	EQ1	B9999	C01	60	00002	12,193.	<u>68,360.6</u>
513 (2)	01	EQ1	B9999	C01	60	00003	13,861.	<u>19,054.6</u>
513 (2)	01	EQ1	B9999	C01	60	00004	2,940.9	<u>2,455.5</u>
513 (2)	01	EQ1	B9999	C01	60	00005	3,529.9	<u>4,665.4</u>
513 (2)	01	EQ1	B9999	C01	60	00006	16,277.	<u>374,411.8</u>
513 (2)	01	EQ1	B9999	C01	60	00007	6,365.6	<u>119,189.1</u>
513 (2)	01	EQ1	B9999	C01	60	00008	10,035.	<u>23,278.0</u>
513 (2)	01	EQ1	B9999	C01	60	00009	13,253.	<u>674,127.9</u>
513 (2)	01	EQ1	B9999	C01	60	00010	13,710.	<u>2,238,613.5</u>
506 (2)	01	FL1	B0001	C01	60	00001	4,970.5	<u>58,973.0</u>
506 (2)	01	FL1	B0001	C01	60	00002	4,680.3	<u>12,466.1</u>
506 (2)	01	FL1	B0001	C01	60	00003	7,264.2	<u>36,000.9</u>
506 (2)	01	FL1	B0001	C01	60	00004	4,964.6	<u>20,908.0</u>
506 (2)	01	FL1	B0001	C01	60	00005	3,588.3	<u>11,954.5</u>
506 (2)	01	FL1	B0001	C01	60	00006	3,034.6	<u>41,833.5</u>
506 (2)	01	FL1	B0001	C01	60	00007	2,601.0	<u>18,094.0</u>
506 (2)	01	FL1	B0001	C01	60	00008	3,251.5	<u>26,689.4</u>
506 (2)	01	FL1	B0001	C01	60	00009	3,092.7	<u>13,387.1</u>
506 (2)	01	FL1	B0001	C01	60	00010	7,800.7	<u>33,084.7</u>
506 (2)	01	FL1	B0001	C01	60	00011	11,928.	<u>4,996.4</u>
506 (2)	01	FL1	B0001	C01	60	00012	6,757.1	<u>19,321.9</u>
506 (2)	01	FL1	B0001	C01	60	00013	7,888.9	<u>33,749.8</u>
506 (2)	01	FL1	B0001	C01	60	00014	7,070.7	<u>27,763.8</u>
506 (2)	01	FL1	B0001	C01	60	00015	5,051.9	<u>19,577.7</u>
506 (2)	01	FL1	B0001	C01	60	00016	5,397.3	<u>31,703.3</u>
506 (2)	01	FL1	B0001	C01	60	00017	5,781.9	<u>39,633.5</u>
506 (2)	01	FL1	B0001	C01	60	00018	5,017.2	<u>18,145.2</u>
506 (2)	01	FL1	B0001	C01	60	00019	3,149.7	<u>16,405.7</u>
506 (2)	01	FL1	B0001	C01	60	00020	4,791.2	<u>34,568.4</u>
506 (2)	01	FL1	B0001	C01	60	00021	5,171.5	<u>9,703.4</u>
506 (2)	01	FL1	B0001	C01	60	00022	6,268.1	<u>27,610.3</u>
506 (2)	01	FL1	B0001	C01	60	00023	4,397.0	<u>29,247.5</u>
506 (2)	01	FL1	B0001	C01	60	00024	4,178.5	<u>25,205.6</u>
506 (2)	01	FL1	B0001	C01	60	00025	3,661.4	<u>15,996.4</u>
506 (2)	01	FL1	B0001	C01	60	00026	5,057.7	<u>24,131.2</u>
506 (2)	01	FL1	B0001	C01	60	00027	4,717.6	<u>34,824.2</u>
506 (2)	01	FL1	B0001	C01	60	00028	4,547.4	<u>25,666.1</u>
506 (2)	01	FL1	B0001	C01	60	00029	4,436.7	<u>36,512.6</u>
506 (2)	01	FL1	B0001	C01	60	00030	4,157.4	<u>17,531.2</u>

NOTES: Activity reported in net dpm/100 cm². Count times are reported in seconds.
 Underlined values exceed the MDA.
 Bold values exceed 2000 dpm/100 cm².

Maine Yankee Atomic Power Plant Site Characterization

03/31/98

Direct Measurements For Total Beta Activity

Survey Package : A0200 SURFACES & STRUCTURES
 Containment Building - Elevation 20 ft.
 General Area

RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	MDA	RESULT
512 (2)	01	SW1	B9999	C01	60	00001	12,573.	<u>99,781.0</u>
512 (2)	01	SW1	B9999	C01	60	00002	7,556.1	<u>41,789.1</u>
512 (2)	01	SW1	B9999	C01	60	00003	7,118.7	<u>30,028.1</u>
512 (2)	01	SW1	B9999	C01	60	00004	11,234.	-2,752.6
512 (2)	01	SW1	B9999	C01	60	00005	5,520.8	<u>275,445.6</u>
516 (2)	01	SW2	B0036	C01	60	00001	9,366.5	<u>61,513.9</u>
516 (2)	01	SW2	B0036	C01	60	00002	11,271.	<u>40,392.0</u>
516 (2)	01	SW2	B0036	C01	60	00003	8,398.6	<u>42,591.0</u>
516 (2)	01	SW2	B0036	C01	60	00004	7,105.3	<u>39,755.4</u>
516 (2)	01	SW2	B0036	C01	60	00005	11,659.	<u>47,451.9</u>
506 (2)	01	WS1	B9999	C01	60	00001	4,947.0	<u>5,269.7</u>
506 (2)	01	WS1	B9999	C01	60	00002	7,514.3	<u>27,934.8</u>
506 (2)	01	WS1	B9999	C01	60	00003	3,772.3	1,227.9
506 (2)	01	WS1	B9999	C01	60	00004	3,341.3	<u>38,269.6</u>
506 (2)	01	WS1	B9999	C01	60	00005	2,669.1	<u>35,609.2</u>
506 (2)	01	WS1	B9999	C01	60	00006	2,713.5	<u>33,818.5</u>
506 (2)	01	WS1	B9999	C01	60	00007	7,378.6	-2,558.1
506 (2)	01	WS1	B9999	C01	60	00008	6,405.2	<u>29,367.3</u>
506 (2)	01	WS1	B9999	C01	60	00009	7,932.7	<u>8,237.2</u>
506 (2)	01	WS1	B9999	C01	60	00010	4,495.6	1,995.3
506 (2)	01	WS1	B9999	C01	60	00011	3,709.4	<u>34,483.6</u>
506 (2)	01	WS1	B9999	C01	60	00012	4,114.8	<u>4,348.8</u>
506 (2)	01	WS1	B9999	C01	60	00013	3,332.4	<u>45,585.9</u>
506 (2)	01	WS1	B9999	C01	60	00014	3,629.1	<u>26,451.1</u>
506 (2)	01	WS1	B9999	C01	60	00015	3,411.3	<u>29,879.0</u>
506 (2)	01	WS1	B9999	C01	60	00016	5,424.2	<u>180,092.4</u>
506 (2)	01	WS1	B9999	C01	60	00017	3,733.1	<u>4,502.3</u>
506 (2)	01	WS1	B9999	C01	60	00018	4,456.4	<u>8,339.5</u>
506 (2)	01	WS1	B9999	C01	60	00019	3,653.4	<u>35,353.4</u>
506 (2)	01	WS1	B9999	C01	60	00020	6,649.2	153.5
507 (2)	01	WS2	B0001	C01	60	00001	4,495.6	<u>17,268.8</u>
507 (2)	01	WS2	B0001	C01	60	00002	3,316.9	<u>11,103.5</u>
507 (2)	01	WS2	B0001	C01	60	00003	3,259.5	<u>4,592.5</u>
507 (2)	01	WS2	B0001	C01	60	00004	3,526.0	<u>4,131.6</u>
507 (2)	01	WS2	B0001	C01	60	00005	3,282.6	<u>4,650.1</u>
507 (2)	01	WS2	B0001	C01	60	00006	4,868.7	<u>9,490.2</u>
507 (2)	01	WS2	B0001	C01	60	00007	8,136.1	<u>4,823.0</u>
507 (2)	01	WS2	B0001	C01	60	00008	5,531.3	1,481.1
507 (2)	01	WS2	B0001	C01	60	00009	5,893.5	<u>5,456.8</u>
512 (2)	01	WS2	B0001	C01	60	00010	7,963.5	<u>10,094.4</u>

NOTES: Activity reported in net dpm/100 cm². Count times are reported in seconds.
 Underlined values exceed the MDA.
 Bold values exceed 2000 dpm/100 cm².



Maine Yankee Atomic Power Plant Site Characterization

03/31/98

Direct Measurements For Total Beta Activity

Survey Package : A0200 SURFACES & STRUCTURES
 Containment Building - Elevation 20 ft.
 General Area

RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	MDA	RESULT
512 (2)	01	WS2	B0001	C01	60	00011	4,669.4	<u>3,025.3</u>
512 (2)	01	WS2	B0001	C01	60	00012	13,609.	-32,945.9
512 (2)	01	WS2	B0001	C01	60	00013	5,813.6	<u>6,403.4</u>
512 (2)	01	WS2	B0001	C01	60	00014	6,177.2	<u>6,966.5</u>
512 (2)	01	WS2	B0001	C01	60	00015	7,936.3	-7,547.1
512 (2)	01	WS2	B0001	C01	60	00016	7,573.3	-5,169.9
512 (2)	01	WS2	B0001	C01	60	00017	6,350.9	<u>22,043.1</u>
512 (2)	01	WS2	B0001	C01	60	00018	5,638.2	-2,792.7
512 (2)	01	WS2	B0001	C01	60	00019	5,646.0	-165.2
512 (2)	01	WS2	B0001	C01	60	00020	5,416.9	-3,355.7

NOTES: Activity reported in net dpm/100 cm². Count times are reported in seconds.
 Underlined values exceed the MDA.
 Bold values exceed 2000 dpm/100 cm².
 90 results are listed.



Maine Yankee Atomic Power Plant Site Characterization

DOWNLOAD FILE & SURVEY INSTRUMENTATION CALIBRATION SUMMARY

03/31/98

Direct Measurements For Total Beta Activity

Survey Package : A0200 SURFACES & STRUCTURES
 Containment Building - Elevation 20 ft.
 General Area

SURVEY DATE	FILE #	M2350		DETECTOR			PRE EFF	TECHNICIAN
		INST S/N	CAL DUE	MODEL	S/N	CAL DUE		
1/28/98	506 (2)	080498	4/8/98	44-40	PR090001	4/8/98	.13	CWI5440
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
1/28/98	507 (2)	126196	4/15/98	44-40	119453	4/16/98	.11	DJH2236
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
1/29/98	512 (2)	126196	4/15/98	44-40	119453	4/16/98	.10	DJH2236
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
1/29/98	513 (2)	080498	4/8/98	44-40	PR090001	4/8/98	.13	CWI5440
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
1/29/98	516 (2)	126201	4/15/98	44-40	119455	4/29/98	.11	BSM0490
CALIBRATION DATES VERIFIED AS ACCEPTABLE								



Maine Yankee Atomic Power Plant Site Characterization

03/29/98

Removable Contamination - Gross Beta Activity

Survey Package A0200 SURFACES & STRUCTURES
 Containment Building - Elevation 20 ft.
 General Area

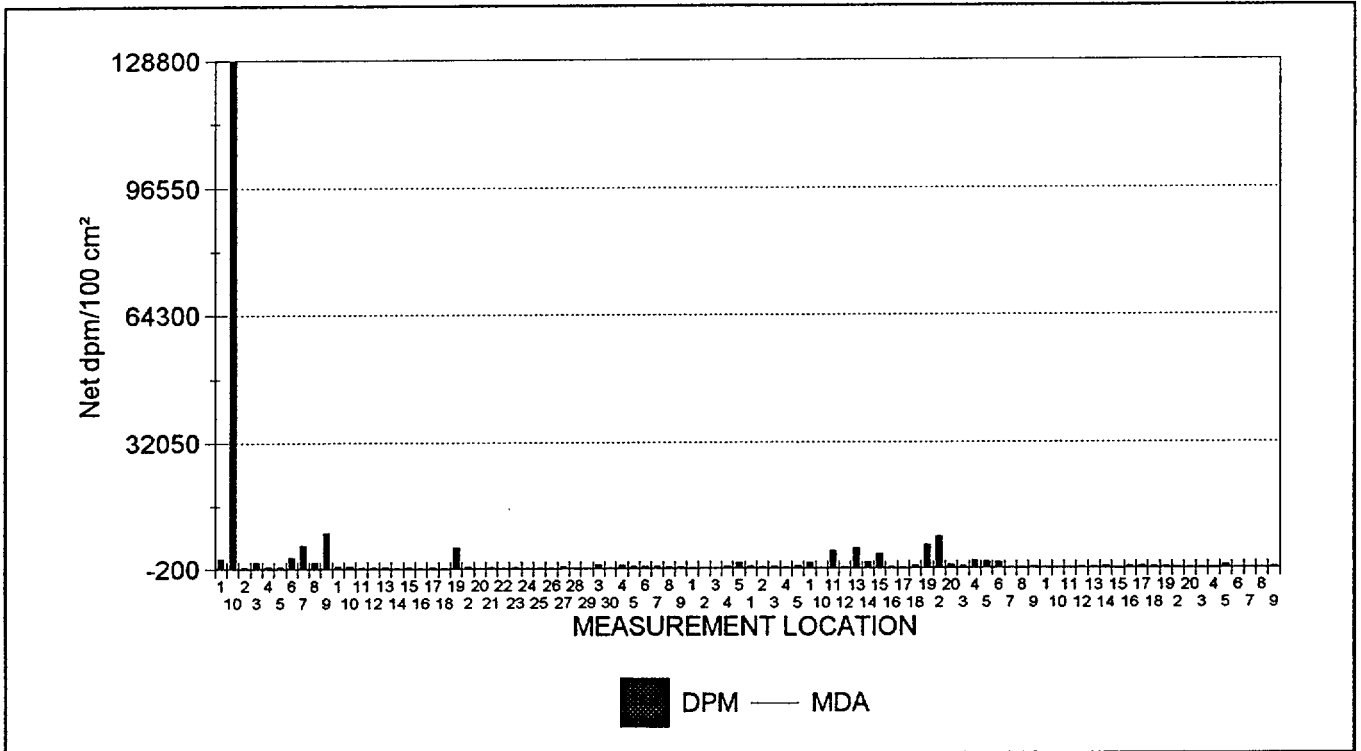
STATISTICAL SUMMARY

TESTS PERFORMED

	Net dpm/100 cm ²
Mean	2,388.3
Maximum	128,733.5
Minimum	43.9
Standard Deviation	13,577.2
MDA	35.1

MDA <100 net dpm/100 cm ²	YES
Results above 100 net dpm/100 cm ²	79
Number of results above MDA	90

Samples Reported	90
Samples Prescribed	90



90 RESULTS ARE GRAPHED



Maine Yankee Atomic Power Plant Site Characterization

03/29/98

Removable Contamination - Gross Alpha Activity

Survey Package A0200 SURFACES & STRUCTURES
 Containment Building - Elevation 20 ft.
 General Area

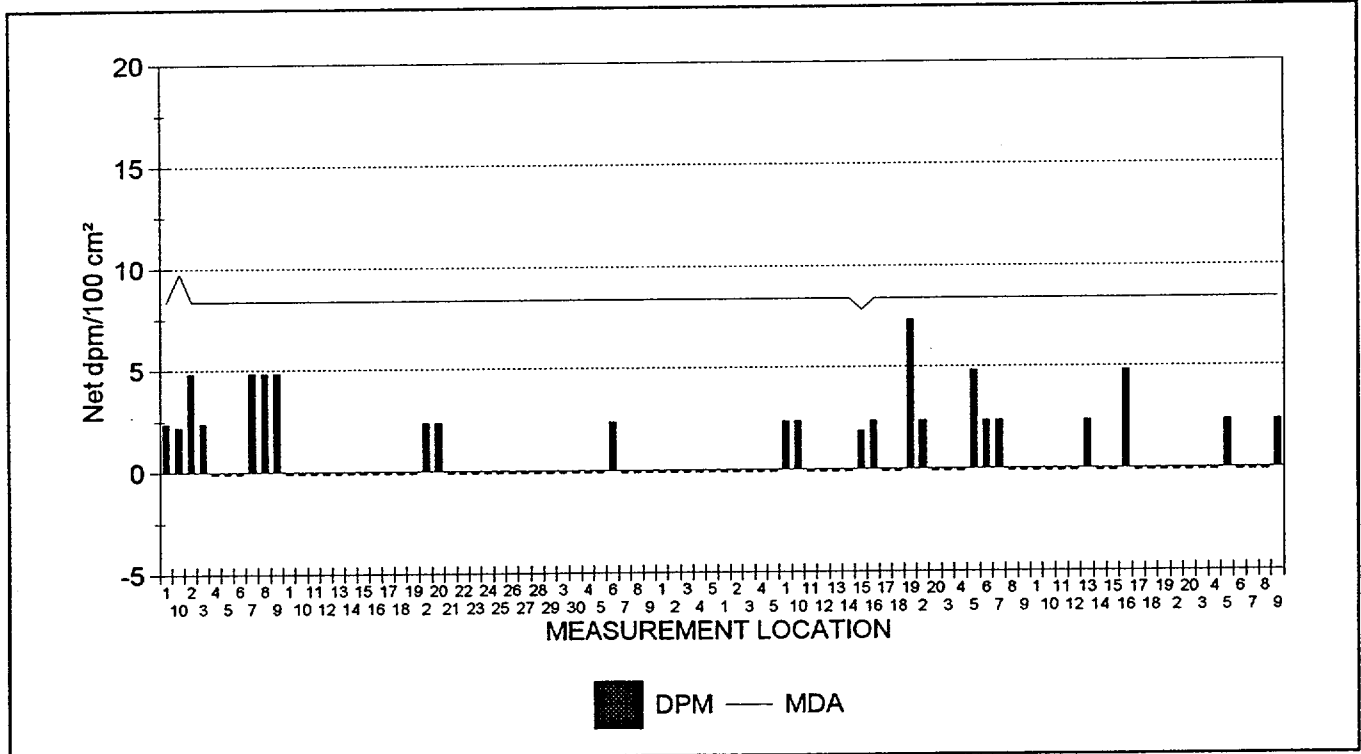
STATISTICAL SUMMARY

TESTS PERFORMED

	Net dpm/100 cm ²
Mean	0.7
Maximum	7.3
Minimum	-0.1
Standard Deviation	1.6
MDA	9.7

MDA <10 net dpm/100 cm ²	YES
Results above 20 net dpm/100 cm ²	0
Number of results above MDA	0

Samples Reported	90
Samples Prescribed	90



90 RESULTS ARE GRAPHED

Maine Yankee Atomic Power Plant Site Characterization

03/29/98

Removable Contamination

Survey Package : A0200 SURFACES & STRUCTURES
 Containment Building - Elevation 20 ft.
 General Area

RESULTS LISTING - SORTED BY SURFACE CODE

XLS FILE	UNIT	SURFACE	REASON	MSRMNT LOCATION	ALPHA	BETA
SME1E003.XLS	01	WS2	C01	9	2.4	<u>285.1</u>
SME1E003.XLS	01	WS2	C01	8	-0.1	<u>164.5</u>
SME1E003.XLS	01	WS2	C01	7	-0.1	80.1
SME1E003.XLS	01	WS2	C01	6	-0.1	<u>200.7</u>
SME1E003.XLS	01	WS2	C01	5	2.4	<u>761.3</u>
SME1E003.XLS	01	WS2	C01	4	-0.1	98.2
SME1E003.XLS	01	WS2	C01	3	-0.1	92.1
SME1E003.XLS	01	WS2	C01	20	-0.1	56.0
SME1E003.XLS	01	WS2	C01	2	-0.1	<u>110.2</u>
SME1E003.XLS	01	WS2	C01	19	-0.1	<u>291.1</u>
SME1E003.XLS	01	WS2	C01	18	-0.1	<u>236.8</u>
SME1E003.XLS	01	WS2	C01	17	-0.1	<u>375.5</u>
SME1E003.XLS	01	WS2	C01	16	4.8	<u>363.4</u>
SME1E003.XLS	01	WS2	C01	15	-0.1	86.1
SME1E003.XLS	01	WS2	C01	14	-0.1	<u>423.7</u>
SME1E003.XLS	01	WS2	C01	13	2.4	<u>285.1</u>
SME1E003.XLS	01	WS2	C01	12	-0.1	<u>248.9</u>
SME1E003.XLS	01	WS2	C01	11	-0.1	43.9
SME1E003.XLS	01	WS2	C01	10	-0.1	<u>188.6</u>
SME1E003.XLS	01	WS2	C01	1	-0.1	49.9
SME1E003.XLS	01	WS1	C01	9	-0.1	<u>333.3</u>
SME1E003.XLS	01	WS1	C01	8	-0.1	86.1
SME1E003.XLS	01	WS1	C01	7	2.4	<u>116.3</u>
SME1E003.XLS	01	WS1	C01	6	2.4	<u>1,448.6</u>
SME1E003.XLS	01	WS1	C01	5	4.8	<u>1,533.0</u>
SME1E003.XLS	01	WS1	C01	4	-0.1	<u>1,834.4</u>
SME1E003.XLS	01	WS1	C01	3	-0.1	<u>484.0</u>
SME1E003.XLS	01	WS1	C01	20	-0.1	<u>767.3</u>
SME1E003.XLS	01	WS1	C01	2	2.4	<u>7,989.6</u>
SME1E003.XLS	01	WS1	C01	19	7.3	<u>5,873.6</u>
SME1E003.XLS	01	WS1	C01	18	-0.1	<u>676.9</u>
SME1E003.XLS	01	WS1	C01	17	-0.1	<u>116.3</u>
SME1E003.XLS	01	WS1	C01	16	2.4	<u>279.0</u>
SME1E003.XLS	01	WS1	C01	15	1.9	<u>3,655.0</u>
SME1E003.XLS	01	WS1	C01	14	-0.1	<u>1,557.1</u>
SME1E003.XLS	01	WS1	C01	13	-0.1	<u>5,083.8</u>
SME1E003.XLS	01	WS1	C01	12	-0.1	<u>224.8</u>
SME1E003.XLS	01	WS1	C01	11	-0.1	<u>4,426.7</u>
SME1E003.XLS	01	WS1	C01	10	2.4	<u>194.6</u>
SME1E003.XLS	01	WS1	C01	1	2.4	<u>1,478.7</u>

NOTES: Activity reported in net dpm/100 cm².
 Underlined values exceed the associated MDA.
 Bold values exceed 100.00 dpm/100 cm² (beta activity) and/or 20.00 dpm/100 cm² (alpha activity).



Maine Yankee Atomic Power Plant Site Characterization

03/29/98

Removable Contamination

Survey Package : A0200 SURFACES & STRUCTURES
 Containment Building - Elevation 20 ft.
 General Area

RESULTS LISTING - SORTED BY SURFACE CODE

XLS FILE	UNIT	SURFACE	REASON	MSRMNT LOCATION	ALPHA	BETA
SME1E003.XLS	01	SW2	C01	5	-0.1	652.8
SME1E003.XLS	01	SW2	C01	4	-0.1	<u>345.3</u>
SME1E003.XLS	01	SW2	C01	3	-0.1	<u>375.5</u>
SME1E003.XLS	01	SW2	C01	2	-0.1	<u>327.3</u>
SME1E003.XLS	01	SW2	C01	1	-0.1	<u>484.0</u>
SME1E003.XLS	01	SW1	C01	5	-0.1	1,328.0
SME1E003.XLS	01	SW1	C01	4	-0.1	<u>471.9</u>
SME1E003.XLS	01	SW1	C01	3	-0.1	<u>188.6</u>
SME1E003.XLS	01	SW1	C01	2	-0.1	86.1
SME1E003.XLS	01	SW1	C01	1	-0.1	<u>194.6</u>
SME1E003.XLS	01	FL1	C01	9	-0.1	<u>297.1</u>
SME1E003.XLS	01	FL1	C01	8	-0.1	<u>351.4</u>
SME1E003.XLS	01	FL1	C01	7	-0.1	<u>369.5</u>
SME1E003.XLS	01	FL1	C01	6	2.4	<u>447.8</u>
SME1E003.XLS	01	FL1	C01	5	-0.1	<u>381.5</u>
SME1E003.XLS	01	FL1	C01	4	-0.1	<u>839.7</u>
SME1E003.XLS	01	FL1	C01	30	-0.1	<u>152.4</u>
SME1E003.XLS	01	FL1	C01	3	-0.1	<u>900.0</u>
SME1E003.XLS	01	FL1	C01	29	-0.1	<u>194.6</u>
SME1E003.XLS	01	FL1	C01	28	-0.1	<u>140.4</u>
SME1E003.XLS	01	FL1	C01	27	-0.1	<u>393.6</u>
SME1E003.XLS	01	FL1	C01	26	-0.1	68.0
SME1E003.XLS	01	FL1	C01	25	-0.1	<u>194.6</u>
SME1E003.XLS	01	FL1	C01	24	-0.1	74.1
SME1E003.XLS	01	FL1	C01	23	-0.1	<u>218.7</u>
SME1E003.XLS	01	FL1	C01	22	-0.1	<u>188.6</u>
SME1E003.XLS	01	FL1	C01	21	-0.1	<u>273.0</u>
SME1E003.XLS	01	FL1	C01	20	2.4	<u>104.2</u>
SME1E003.XLS	01	FL1	C01	2	2.4	<u>459.9</u>
SME1E003.XLS	01	FL1	C01	19	-0.1	5,487.7
SME1E003.XLS	01	FL1	C01	18	-0.1	<u>134.3</u>
SME1E003.XLS	01	FL1	C01	17	-0.1	<u>315.2</u>
SME1E003.XLS	01	FL1	C01	16	-0.1	<u>134.3</u>
SME1E003.XLS	01	FL1	C01	15	-0.1	<u>254.9</u>
SME1E003.XLS	01	FL1	C01	14	-0.1	<u>182.6</u>
SME1E003.XLS	01	FL1	C01	13	-0.1	<u>248.9</u>
SME1E003.XLS	01	FL1	C01	12	-0.1	<u>309.2</u>
SME1E003.XLS	01	FL1	C01	11	-0.1	<u>254.9</u>
SME1E003.XLS	01	FL1	C01	10	-0.1	652.8
SME1E003.XLS	01	FL1	C01	1	-0.1	<u>586.5</u>

NOTES: Activity reported in net dpm/100 cm².
 Underlined values exceed the associated MDA.
 Bold values exceed 100.00 dpm/100 cm² (beta activity) and/or 20.00 dpm/100 cm² (alpha activity).



Maine Yankee Atomic Power Plant Site Characterization

03/29/98

Removable Contamination

Survey Package : A0200 SURFACES & STRUCTURES
 Containment Building - Elevation 20 ft.
 General Area

RESULTS LISTING - SORTED BY SURFACE CODE

XLS FILE	UNIT	SURFACE	REASON	MSRMNT LOCATION	ALPHA	BETA
SME1E003.XLS	01	EQ1	C01	9	4.8	<u>9,153.1</u>
SME1E003.XLS	01	EQ1	C01	8	4.8	<u>1,490.8</u>
SME1E003.XLS	01	EQ1	C01	7	4.8	<u>5,879.6</u>
SME1E003.XLS	01	EQ1	C01	6	-0.1	<u>2,805.0</u>
SME1E003.XLS	01	EQ1	C01	5	-0.1	<u>447.8</u>
SME1E003.XLS	01	EQ1	C01	4	-0.1	<u>490.0</u>
SME1E003.XLS	01	EQ1	C01	3	2.4	<u>1,508.9</u>
SME1E003.XLS	01	EQ1	C01	2	4.8	<u>315.2</u>
SME1E055.XLS	01	EQ1	C01	10	2.2	<u>128,733.4</u>
SME1E003.XLS	01	EQ1	C01	1	2.4	<u>2,455.3</u>

NOTES: Activity reported in net dpm/100 cm².
 Underlined values exceed the associated MDA.
 Bold values exceed 100.00 dpm/100 cm² (beta activity) and/or 20.00 dpm/100 cm² (alpha activity).
 90 results are listed.



Maine Yankee Atomic Power Plant Site Characterization

DATAFILE & TENNELEC CALIBRATION SUMMARY

03/29/98

Removable Contamination

Survey Package: A0200 SURFACES & STRUCTURES
Containment Building - Elevation 20 ft.
General Area

SURVEYDATE	XLS FILE	INST ID	S/N	CAL DUE	LAB TECHNICIAN
2/18/98	SME1E003.XLS	1	15632	8/5/98	JWD
CALIBRATION DATE VERIFIED AS ACCEPTABLE					
3/6/98	SME1E055.XLS	1	15632	8/5/98	JWD
CALIBRATION DATE VERIFIED AS ACCEPTABLE					



Maine Yankee Atomic Power Plant Site Characterization

03/30/98

Exposure Rate Measurements

Survey Package A0200 SURFACES & STRUCTURES
 Containment Building - Elevation 20 ft.
 General Area

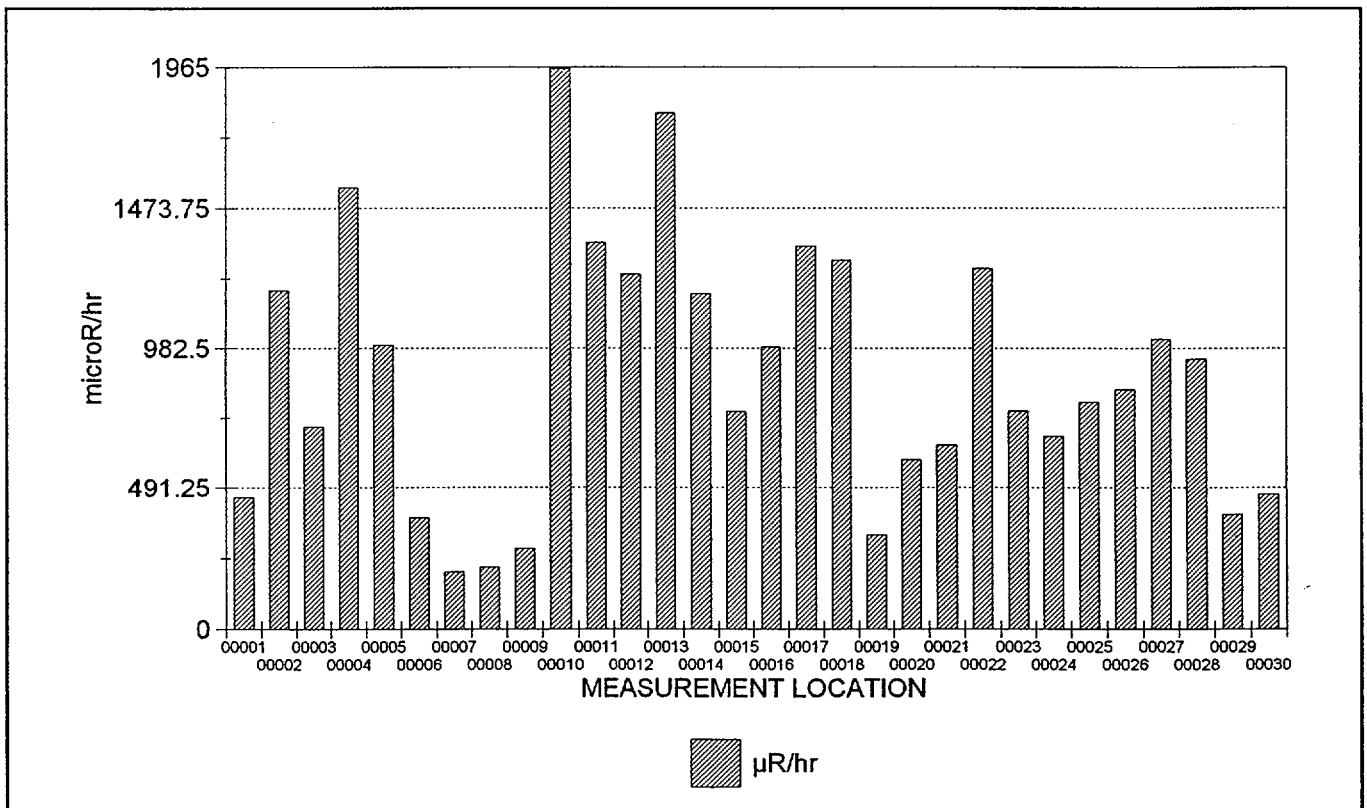
STATISTICAL SUMMARY

TESTS PERFORMED

	$\mu\text{R/hr}$
Mean	886.5
Maximum	1,960.6
Minimum	198.8
Standard Deviation	463.3

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

Samples Reported	30
Samples Prescribed	30



30 RESULTS ARE GRAPHED



Maine Yankee Atomic Power Plant Site Characterization

03/30/98

Exposure Rate Measurements

Survey Package : A0200 SURFACES & STRUCTURES
 Containment Building - Elevation 20 ft.
 General Area

RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	RESULT
497 (2)	01	FL1	B0001	C01	60.00	00001	456.5
497 (2)	01	FL1	B0001	C01	60.00	00002	1184.7
497 (2)	01	FL1	B0001	C01	60.00	00003	706.9
497 (2)	01	FL1	B0001	C01	60.00	00004	1545.9
497 (2)	01	FL1	B0001	C01	60.00	00005	992.7
497 (2)	01	FL1	B0001	C01	60.00	00006	386.6
497 (2)	01	FL1	B0001	C01	60.00	00007	198.8
497 (2)	01	FL1	B0001	C01	60.00	00008	215.8
497 (2)	01	FL1	B0001	C01	60.00	00009	279.1
497 (2)	01	FL1	B0001	C01	60.00	00010	1960.6
497 (2)	01	FL1	B0001	C01	60.00	00011	1353.6
497 (2)	01	FL1	B0001	C01	60.00	00012	1243.2
497 (2)	01	FL1	B0001	C01	60.00	00013	1805.6
497 (2)	01	FL1	B0001	C01	60.00	00014	1173.4
497 (2)	01	FL1	B0001	C01	60.00	00015	760.4
497 (2)	01	FL1	B0001	C01	60.00	00016	986.8
497 (2)	01	FL1	B0001	C01	60.00	00017	1339.5
497 (2)	01	FL1	B0001	C01	60.00	00018	1291.4
497 (2)	01	FL1	B0001	C01	60.00	00019	325.5
497 (2)	01	FL1	B0001	C01	60.00	00020	590.4
497 (2)	01	FL1	B0001	C01	60.00	00021	642.9
497 (2)	01	FL1	B0001	C01	60.00	00022	1262.8
497 (2)	01	FL1	B0001	C01	60.00	00023	761.9
497 (2)	01	FL1	B0001	C01	60.00	00024	673.1
497 (2)	01	FL1	B0001	C01	60.00	00025	793.6
497 (2)	01	FL1	B0001	C01	60.00	00026	837.4
497 (2)	01	FL1	B0001	C01	60.00	00027	1015.5
497 (2)	01	FL1	B0001	C01	60.00	00028	944.7
497 (2)	01	FL1	B0001	C01	60.00	00029	397.1
497 (2)	01	FL1	B0001	C01	60.00	00030	467.5

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 & SURVEY INSTRUMENTATION CALIBRATION SUMMARY

03/30/98

Exposure Rate Measurements

Survey Package : A0200 SURFACES & STRUCTURES
Containment Building - Elevation 20 ft.
General Area

SURVEY DATE	FILE #	M2350		DETECTOR			TECHNICIAN
		INST S/N	CAL DUE	MODEL	S/N	CAL DUE	
1/28/98	497 (2)	126196	4/15/98	44-2	095100	4/19/98	DJH2236

CALIBRATION DATES VERIFIED AS ACCEPTABLE



Maine Yankee Atomic Power Plant Site Characterization

04/02/98

CHARACTERIZATION SUMMARY

SURVEY PACKAGE NUMBER A0300

SURFACES & STRUCTURES

PACKAGE DESCRIPTION

Containment Building - Elevation 46 ft.

SURVEY AREA DESCRIPTION

Containment Building - 46 ft.

GENERAL HISTORICAL INFORMATION (Operational history, etc.)

Constructed in 1968, the Containment Building houses various structures and systems, which are too numerous to list in this section. The 46 ft. elevation is the top floor of the building, and provides access to the Reactor Head and Refueling Cavity, and Head laydown area. Refueling bridge and Reactor Building crane are also accessed at this location. All primary loops are inside bioshield walls, and are posted High Radiation Areas, and the whole building is posted Contaminated area.

SUMMARY OF CHARACTERIZATION ACTIVITIES

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

Collected 172 direct measurements for total beta activity at the survey measurement locations indicated in the results listing report. Due to elevated background radioactivity in the survey area, a scan of a two meter area encompassing each survey measurement location was not performed. Each direct measurement for total beta activity was accompanied by a corresponding background measurement at the same location. The background was used in the calculation of net dpm/100cm².

Collected smear samples to analyze for removable alpha and beta activity at the same 172 survey locations as the direct measurements for total beta activity.

Collected one meter exposure rate measurements at 62 survey locations indicated in the results listing report.

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 SUMMARY

04/02/98

CHARACTERIZATION SURVEY RESULTS

- o There were 149 direct measurements for total beta activity above 2000 dpm/100cm². There were 123 direct measurements for total beta activity above the individual measurements' MDA (Maximum MDA was 16,058 dpm/100cm²). The maximum measurement result was 345,960 dpm/100cm².
 - o There were 162 measurements for removable beta activity above MDA (33 dpm/100cm²) and 131 results greater than 100 dpm/100cm². The maximum measurement result was 31,054 dpm/100cm².
 - o There were no measurements for removable alpha activity above MDA (8.7 dpm/100cm²).
 - o The average and maximum exposure rate measurement results were 0.5 mR/hr and 2.4 mR/hr, respectively.
-

REFERENCES (Documents, Interviews)



Maine Yankee Atomic Power Plant Site Characterization

SUMMARY OF SURVEY UNIT(S)

03/31/98

OUTPUT BATCH SN = 305

PACKAGE A0300 SURFACES & STRUCTURES
 Containment Building - Elevation 46 ft.

UNIT(S)

01 - Containment Building -Elevation 46 ft.

SURFACE(S)

- EQ1 (Equipment: Refuel Bridge Crane)
- EQ2 (Equipment: Polar Crane)
- FL1 (Floor: Annulus)
- FL2 (Floor: inside the crane wall)
- FL3 (Floor: Steam Generator #1 Platform)
- FL4 (Floor: Steam Generator #2 Platform)
- FL5 (Floor: Steam Generator #3 Platform)
- FL6 (Floor: Small Room Floors)
- WS1 (Annulus Wall -Outside)
- WS2 (Annulus Wall -Inside)
- WS3 (Crane Wall)
- WS6 (Steam Generator # 3 wall)
- WS8 (Electrical penetration room wall)

REASON(S) CHARACTERIZATION SURVEY (C01)

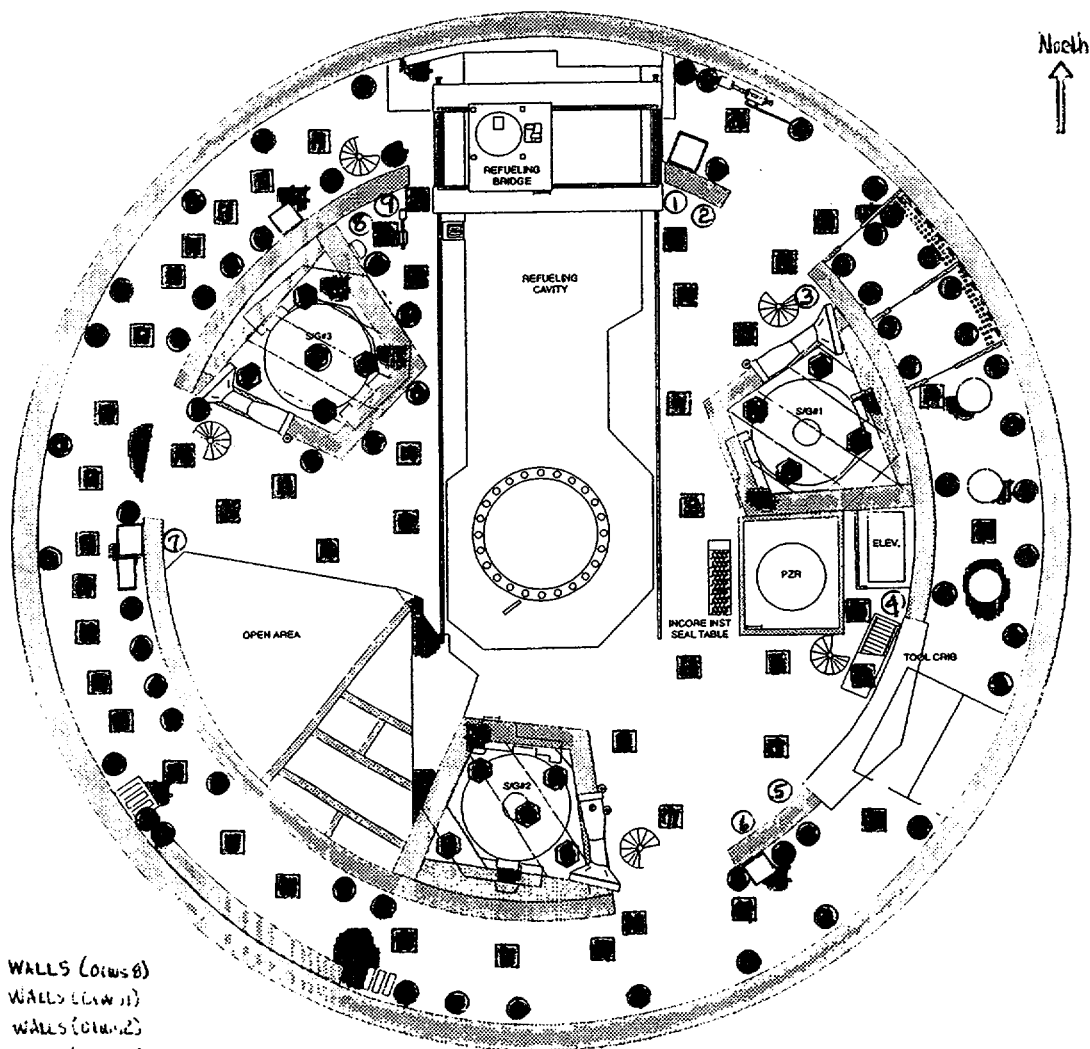
MATERIALS	MAT'L CODE	MATERIAL DESCRIPTION	BETA BKGD (dpm/100 cm²)
	B0001	CONCRETE - PAINTED (INTERIOR)	478.0
	B0031	METAL - BARE	0.0
	B0036	METAL - PAINTED	0.0
	B9999	OTHER	0.0

Maine Yankee Atomic Power Plant Site Characterization

SURVEY PACKAGE A0300

Containment Building 46ft

PACKAGE - A0300



- - WALLS (01W08)
- - WALLS (01W11)
- - WALLS (01W12)
- - WALLS (01W13)
- - WALLS (01W14)
- - FLOORS (01FL1)
- - FLOORS (01FL2)
- - FLOORS (01FL3) (01FL4)
- - 516 #2 FLOOR (01FL4)
- - 516 #3 FLOOR (01FL4)



Maine Yankee Atomic Power Plant Site Characterization

03/31/98

Direct Measurements For Total Beta Activity

Survey Package A0300 SURFACES & STRUCTURES
 Containment Building - Elevation 46 ft.

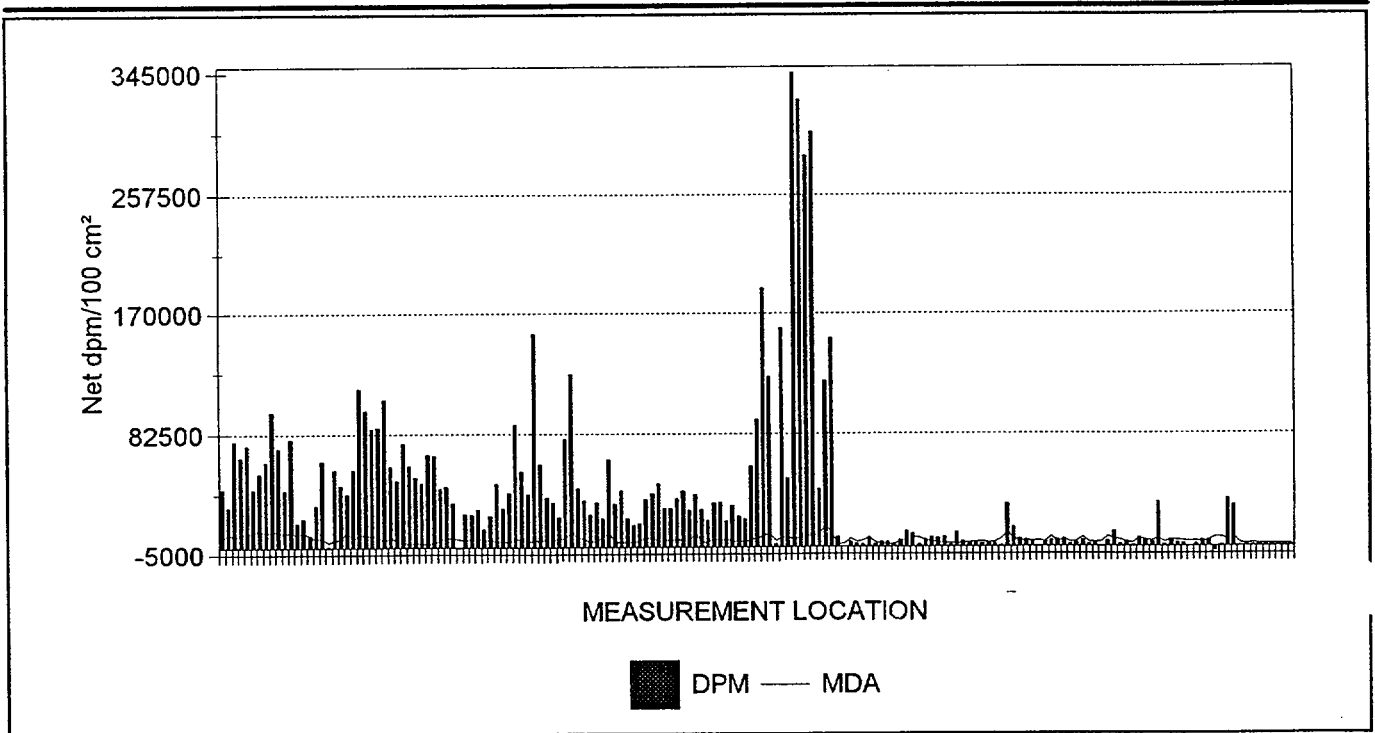
STATISTICAL SUMMARY

TESTS PERFORMED

	Net dpm/100 cm ²
Mean	38,444.0
Maximum	345,959.8
Minimum	-3,153.0
Standard Deviation	55,889.2
MDA	16,057.5

Samples reported satisfy samples prescribed	YES
MDA <2000 net dpm/100 cm ²	NO
Results above 2000 net dpm/100 cm ²	149
Number of results above MDA	123

Samples Reported	172
Samples Prescribed	171



172 RESULTS ARE GRAPHED



Maine Yankee Atomic Power Plant Site Characterization

03/31/98

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RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	MDA	RESULT
330 (2)	01	EQ1	B0036	C01	60	00001	6,371.1	<u>43,162.9</u>
330 (2)	01	EQ1	B0036	C01	60	00002	10,504.	<u>29,546.1</u>
330 (2)	01	EQ1	B0036	C01	60	00003	7,633.3	<u>77,076.7</u>
330 (2)	01	EQ1	B0036	C01	60	00004	10,444.	<u>65,772.1</u>
330 (2)	01	EQ1	B0036	C01	60	00005	9,967.9	<u>74,186.3</u>
330 (2)	01	EQ1	B0036	C01	60	00006	11,459.	<u>42,649.1</u>
330 (2)	01	EQ1	B0036	C01	60	00007	12,807.	<u>54,339.1</u>
330 (2)	01	EQ1	B0036	C01	60	00008	10,616.	<u>62,367.9</u>
330 (2)	01	EQ1	B0036	C01	60	00009	12,176.	<u>98,722.4</u>
330 (2)	01	EQ1	B0036	C01	60	00010	11,836.	<u>72,387.8</u>
330 (2)	01	EQ1	B0036	C01	60	00011	10,365.	<u>42,263.7</u>
330 (2)	01	EQ1	B0036	C01	60	00012	12,109.	<u>78,682.4</u>
330 (2)	01	EQ1	B0036	C01	60	00013	8,861.3	<u>18,305.7</u>
330 (2)	01	EQ1	B0036	C01	60	00014	11,538.	<u>21,388.8</u>
330 (2)	01	EQ1	B0036	C01	60	00015	8,287.2	<u>9,313.4</u>
330 (2)	01	EQ2	B0036	C01	60	00001	6,349.5	<u>30,959.1</u>
330 (2)	01	EQ2	B0036	C01	60	00002	7,028.1	<u>63,074.4</u>
330 (2)	01	EQ2	B0036	C01	60	00003	3,918.6	1,156.2
330 (2)	01	EQ2	B0036	C01	60	00004	6,136.1	<u>56,715.6</u>
330 (2)	01	EQ2	B0036	C01	60	00005	5,969.0	<u>45,346.8</u>
330 (2)	01	EQ2	B0036	C01	60	00006	13,145.	<u>39,566.0</u>
330 (2)	01	EQ2	B0036	C01	60	00007	6,240.0	<u>57,165.2</u>
330 (2)	01	EQ2	B0036	C01	60	00008	9,945.1	<u>115,036.9</u>
330 (2)	01	EQ2	B0036	C01	60	00009	8,866.4	<u>99,557.4</u>
330 (2)	01	EQ2	B0036	C01	60	00010	8,983.8	<u>86,582.8</u>
330 (2)	01	EQ2	B0036	C01	60	00011	7,752.1	<u>87,353.6</u>
330 (2)	01	EQ2	B0036	C01	60	00012	5,002.1	<u>107,265.0</u>
330 (2)	01	EQ2	B0036	C01	60	00013	7,389.9	<u>59,413.3</u>
330 (2)	01	EQ2	B0036	C01	60	00014	5,192.6	<u>49,007.9</u>
330 (2)	01	EQ2	B0036	C01	60	00015	4,400.4	<u>75,214.0</u>
330 (2)	01	EQ2	B0036	C01	60	00016	2,727.4	<u>59,927.1</u>
330 (2)	01	EQ2	B0036	C01	60	00017	3,192.3	<u>51,448.7</u>
330 (2)	01	EQ2	B0036	C01	60	00018	2,896.7	<u>47,402.2</u>
330 (2)	01	EQ2	B0036	C01	60	00019	2,656.5	<u>67,377.9</u>
330 (2)	01	EQ2	B0036	C01	60	00020	3,132.5	<u>66,478.6</u>
330 (2)	01	EQ2	B0036	C01	60	00021	5,708.8	<u>43,162.9</u>
320 (2)	01	FL1	B9999	C01	60	00000	6,974.2	<u>44,506.0</u>
320 (2)	01	FL1	B9999	C01	60	00001	7,000.5	<u>32,616.7</u>
320 (2)	01	FL1	B9999	C01	60	00002	5,965.8	-368.3
320 (2)	01	FL1	B9999	C01	60	00003	5,176.8	<u>24,778.2</u>

NOTES: Activity reported in net dpm/100 cm². Count times are reported in seconds.
 Underlined values exceed the MDA.
 Bold values exceed 2000 dpm/100 cm².

Maine Yankee Atomic Power Plant Site Characterization

03/31/98

Direct Measurements For Total Beta Activity

Survey Package : A0300 SURFACES & STRUCTURES
 Containment Building - Elevation 46 ft.

RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	MDA	RESULT
320 (2)	01	FL1	B9999	C01	60	00004	6,464.1	<u>23,936.4</u>
320 (2)	01	FL1	B9999	C01	60	00005	6,416.5	<u>28,039.8</u>
320 (2)	01	FL1	B9999	C01	60	00006	4,957.8	<u>13,520.1</u>
320 (2)	01	FL1	B9999	C01	60	00007	5,734.9	<u>23,357.7</u>
320 (2)	01	FL1	B9999	C01	60	00008	4,417.3	<u>46,925.9</u>
320 (2)	01	FL1	B9999	C01	60	00009	4,741.4	<u>28,565.9</u>
320 (2)	01	FL1	B9999	C01	60	00010	3,950.3	<u>40,034.3</u>
320 (2)	01	FL1	B9999	C01	60	00011	5,882.9	<u>89,275.0</u>
320 (2)	01	FL1	B9999	C01	60	00012	6,057.7	<u>55,764.0</u>
320 (2)	01	FL1	B9999	C01	60	00013	4,310.9	<u>39,087.4</u>
320 (2)	01	FL1	B9999	C01	60	00014	4,939.1	<u>154,718.8</u>
320 (2)	01	FL1	B9999	C01	60	00015	4,649.3	<u>60,814.3</u>
320 (2)	01	FL1	B9999	C01	60	00016	5,991.5	<u>36,772.7</u>
320 (2)	01	FL1	B9999	C01	60	00017	5,527.5	<u>33,037.5</u>
320 (2)	01	FL1	B9999	C01	60	00018	5,877.7	<u>22,253.0</u>
320 (2)	01	FL1	B9999	C01	60	00019	7,160.3	<u>78,648.3</u>
319 (2)	01	FL1	B9999	C01	60	00020	11,222.	<u>125,516.0</u>
319 (2)	01	FL1	B9999	C01	60	00021	7,562.8	<u>42,952.2</u>
319 (2)	01	FL1	B9999	C01	60	00022	6,010.3	<u>34,481.1</u>
319 (2)	01	FL1	B9999	C01	60	00023	3,694.5	<u>24,220.3</u>
319 (2)	01	FL1	B9999	C01	60	00024	4,479.6	<u>32,751.1</u>
319 (2)	01	FL1	B9999	C01	60	00025	7,645.6	<u>21,118.2</u>
319 (2)	01	FL1	B9999	C01	60	00026	10,875.	<u>63,891.5</u>
329 (2)	01	FL2	B0001	C01	60	00001	3,886.5	<u>31,792.7</u>
329 (2)	01	FL2	B0001	C01	60	00002	3,746.9	<u>41,834.6</u>
329 (2)	01	FL2	B0001	C01	60	00003	3,810.3	<u>21,555.8</u>
328 (2)	01	FL2	B0001	C01	60	00004	3,578.2	<u>16,374.9</u>
328 (2)	01	FL2	B0001	C01	60	00005	4,708.7	<u>17,606.6</u>
328 (2)	01	FL2	B0001	C01	60	00006	6,869.6	<u>35,075.4</u>
328 (2)	01	FL2	B0001	C01	60	00007	6,338.4	<u>39,274.6</u>
329 (2)	01	FL2	B0001	C01	60	00008	4,774.8	<u>46,563.1</u>
329 (2)	01	FL2	B0001	C01	60	00009	5,142.5	<u>28,721.6</u>
329 (2)	01	FL2	B0001	C01	60	00010	5,304.2	<u>28,819.1</u>
328 (2)	01	FL2	B0001	C01	60	00011	5,503.2	<u>35,467.3</u>
328 (2)	01	FL2	B0001	C01	60	00012	5,647.1	<u>41,066.3</u>
328 (2)	01	FL2	B0001	C01	60	00013	4,400.5	<u>27,180.9</u>
329 (2)	01	FL2	B0001	C01	60	00014	11,338.	<u>38,324.8</u>
329 (2)	01	FL2	B0001	C01	60	00015	3,845.1	<u>28,039.1</u>
329 (2)	01	FL2	B0001	C01	60	00016	3,893.3	<u>20,044.6</u>
328 (2)	01	FL2	B0001	C01	60	00017	6,182.9	<u>32,611.8</u>

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Maine Yankee Atomic Power Plant Site Characterization

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Direct Measurements For Total Beta Activity

Survey Package : A0300 SURFACES & STRUCTURES
 Containment Building - Elevation 46 ft.

RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	MDA	RESULT
328 (2)	01	FL2	B0001	C01	60	00018	4,869.7	<u>32,723.8</u>
328 (2)	01	FL2	B0001	C01	60	00019	5,971.0	<u>19,678.3</u>
329 (2)	01	FL2	B0001	C01	60	00020	4,131.9	<u>30,427.7</u>
329 (2)	01	FL2	B0001	C01	60	00021	4,791.4	<u>22,871.9</u>
329 (2)	01	FL2	B0001	C01	60	00022	3,838.2	<u>21,068.3</u>
329 (2)	01	FL3	B0031	C01	60	00001	5,650.6	<u>59,374.1</u>
329 (2)	01	FL3	B0031	C01	60	00002	6,490.9	<u>93,107.2</u>
329 (2)	01	FL3	B0031	C01	60	00003	8,316.1	<u>188,798.0</u>
329 (2)	01	FL3	B0031	C01	60	00004	10,196.	<u>123,476.7</u>
328 (2)	01	FL4	B0031	C01	60	00001	4,848.1	<u>2,183.6</u>
328 (2)	01	FL4	B0031	C01	60	00002	6,959.9	<u>159,178.4</u>
328 (2)	01	FL4	B0031	C01	60	00003	7,243.1	<u>50,278.7</u>
328 (2)	01	FL4	B0031	C01	60	00004	5,805.4	<u>345,959.7</u>
328 (2)	01	FL4	B0031	C01	60	00005	7,579.6	<u>326,475.3</u>
328 (2)	01	FL5	B0031	C01	60	00001	7,800.2	<u>285,602.9</u>
328 (2)	01	FL5	B0031	C01	60	00002	8,811.4	<u>303,071.7</u>
328 (2)	01	FL5	B0031	C01	60	00003	9,172.2	<u>42,720.1</u>
328 (2)	01	FL5	B0031	C01	60	00004	16,057.	<u>120,545.6</u>
328 (2)	01	FL5	B0031	C01	60	00005	9,978.7	<u>151,675.8</u>
319 (2)	01	FL6	B0001	C01	60	00001	2,104.6	<u>7,336.9</u>
319 (2)	01	FL6	B0001	C01	60	00002	2,347.2	118.6
317 (2)	01	WS1	B0001	C01	60	00001	6,039.6	<u>3,708.6</u>
317 (2)	01	WS1	B0001	C01	60	00002	3,805.9	<u>2,368.9</u>
317 (2)	01	WS1	B0001	C01	60	00003	4,619.7	<u>2,145.6</u>
317 (2)	01	WS1	B0001	C01	60	00004	6,948.9	<u>6,834.6</u>
317 (2)	01	WS1	B0001	C01	60	00005	3,310.9	<u>2,089.8</u>
317 (2)	01	WS1	B0001	C01	60	00006	2,212.8	<u>3,764.4</u>
317 (2)	01	WS1	B0001	C01	60	00007	2,094.9	<u>3,764.4</u>
317 (2)	01	WS1	B0001	C01	60	00008	2,006.1	<u>2,313.1</u>
317 (2)	01	WS1	B0001	C01	60	00009	4,166.5	<u>5,048.3</u>
317 (2)	01	WS1	B0001	C01	60	00010	5,805.8	<u>11,635.2</u>
317 (2)	01	WS1	B0001	C01	60	00011	6,823.7	<u>9,569.8</u>
317 (2)	01	WS1	B0001	C01	60	00012	6,798.3	<u>2,033.9</u>
317 (2)	01	WS1	B0001	C01	60	00013	4,566.6	<u>5,718.1</u>
317 (2)	01	WS1	B0001	C01	60	00014	3,950.7	<u>6,946.2</u>
317 (2)	01	WS1	B0001	C01	60	00015	3,353.3	<u>6,499.6</u>
317 (2)	01	WS1	B0001	C01	60	00016	2,825.3	<u>7,616.1</u>
317 (2)	01	WS1	B0001	C01	60	00017	2,837.9	1,419.9
317 (2)	01	WS1	B0001	C01	60	00018	2,615.2	<u>10,518.8</u>
327 (2)	01	WS1	B0001	C01	60	00019	2,833.3	<u>4,142.5</u>

NOTES: Activity reported in net dpm/100 cm². Count times are reported in seconds.
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Maine Yankee Atomic Power Plant Site Characterization

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Direct Measurements For Total Beta Activity

Survey Package : A0300 SURFACES & STRUCTURES
 Containment Building - Elevation 46 ft.

RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	MDA	RESULT
327 (2)	01	WS1	B0001	C01	60	00020	3,263.4	3,230.6
327 (2)	01	WS1	B0001	C01	60	00021	3,754.0	3,169.8
327 (2)	01	WS1	B0001	C01	60	00022	3,559.2	2,440.2
327 (2)	01	WS1	B0001	C01	60	00023	3,158.4	2,987.4
327 (2)	01	WS1	B0001	C01	60	00024	3,402.3	2,257.8
327 (2)	01	WS1	B0001	C01	60	00025	5,864.4	1,224.3
327 (2)	01	WS1	B0001	C01	60	00026	10,519.	31,743.9
327 (2)	01	WS1	B0001	C01	60	00027	6,057.7	14,234.6
327 (2)	01	WS2	B0001	C01	60	00001	4,224.7	5,905.6
327 (2)	01	WS2	B0001	C01	60	00002	4,872.6	5,176.0
327 (2)	01	WS2	B0001	C01	60	00003	4,312.4	3,899.3
327 (2)	01	WS2	B0001	C01	60	00004	4,254.1	494.7
327 (2)	01	WS2	B0001	C01	60	00005	3,885.3	3,716.9
327 (2)	01	WS2	B0001	C01	60	00006	7,298.4	4,811.2
327 (2)	01	WS2	B0001	C01	60	00007	3,185.0	5,054.4
327 (2)	01	WS2	B0001	C01	60	00008	5,494.4	5,844.8
327 (2)	01	WS2	B0001	C01	60	00009	3,451.4	2,136.2
327 (2)	01	WS2	B0001	C01	60	00010	3,991.3	2,987.4
327 (2)	01	WS2	B0001	C01	60	00011	6,924.1	4,750.5
327 (2)	01	WS2	B0001	C01	60	00012	3,314.7	2,014.6
327 (2)	01	WS2	B0001	C01	60	00013	3,390.0	3,291.3
327 (2)	01	WS2	B0001	C01	60	00014	3,090.8	130.0
327 (2)	01	WS2	B0001	C01	60	00015	7,584.3	4,142.5
327 (2)	01	WS2	B0001	C01	60	00016	5,456.8	11,255.6
327 (2)	01	WS2	B0001	C01	60	00017	5,177.2	1,893.0
327 (2)	01	WS2	B0001	C01	60	00018	2,663.0	3,777.7
327 (2)	01	WS2	B0001	C01	60	00019	2,694.8	1,041.9
327 (2)	01	WS2	B0001	C01	60	00020	6,277.6	6,635.1
327 (2)	01	WS3	B0001	C01	60	00001	4,574.3	4,142.5
327 (2)	01	WS3	B0001	C01	60	00002	4,473.3	3,473.7
327 (2)	01	WS3	B0001	C01	60	00003	6,244.8	32,655.8
327 (2)	01	WS3	B0001	C01	60	00004	3,171.7	1,406.7
327 (2)	01	WS3	B0001	C01	60	00005	5,039.6	5,054.4
327 (2)	01	WS3	B0001	C01	60	00006	4,906.5	2,987.4
327 (2)	01	WS3	B0001	C01	60	00007	4,104.7	2,379.4
327 (2)	01	WS3	B0001	C01	60	00008	3,831.2	8.4
327 (2)	01	WS3	B0001	C01	60	00009	4,175.1	1,893.0
327 (2)	01	WS6	B0001	C01	60	00001	3,427.0	4,507.3
327 (2)	01	WS6	B0001	C01	60	00002	4,914.9	4,750.5
327 (2)	01	WS6	B0001	C01	60	00003	7,082.1	-3,153.0

NOTES: Activity reported in net dpm/100 cm². Count times are reported in seconds.
 Underlined values exceed the MDA.
 Bold values exceed 2000 dpm/100 cm².



Maine Yankee Atomic Power Plant Site Characterization

03/31/98

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 Containment Building - Elevation 46 ft.

RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	MDA	RESULT
327 (2)	01	WS6	B0001	C01	60	00004	7,162.6	1,224.3
327 (2)	01	WS6	B0001	C01	60	00005	5,388.3	<u>34,783.7</u>
327 (2)	01	WS6	B0001	C01	60	00006	7,568.2	<u>30,041.6</u>
317 (2)	01	WS8	B0001	C01	60	00001	2,229.1	526.8
317 (2)	01	WS8	B0001	C01	60	00002	2,024.2	1,029.2
317 (2)	01	WS8	B0001	C01	60	00003	2,339.7	973.3
317 (2)	01	WS8	B0001	C01	60	00004	1,987.8	1,252.5
317 (2)	01	WS8	B0001	C01	60	00005	2,077.4	1,029.2
317 (2)	01	WS8	B0001	C01	60	00006	1,793.9	1,587.4
317 (2)	01	WS8	B0001	C01	60	00007	1,773.2	1,699.0
317 (2)	01	WS8	B0001	C01	60	00008	1,854.4	861.7
317 (2)	01	WS8	B0001	C01	60	00009	1,793.9	1,252.5

NOTES: Activity reported in net dpm/100 cm². Count times are reported in seconds.
 Underlined values exceed the MDA.
 Bold values exceed 2000 dpm/100 cm².
 172 results are listed.



Maine Yankee Atomic Power Plant Site Characterization

DOWNLOAD FILE & SURVEY INSTRUMENTATION CALIBRATION SUMMARY

03/31/98

Direct Measurements For Total Beta Activity

Survey Package : A0300 SURFACES & STRUCTURES
 Containment Building - Elevation 46 ft.

SURVEY DATE	FILE #	M2350		DETECTOR			PRE EFF	TECHNICIAN
		INST S/N	CAL DUE	MODEL	S/N	CAL DUE		
1/7/98	317 (2)	98620	3/20/98	44-40	125861	3/22/98	.12	DRK2986
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
1/7/98	319 (2)	129433	6/10/98	44-40	091051	4/29/98	.11	MEW9813
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
1/7/98	320 (2)	129440	6/10/98	44-40	075063	4/27/98	.12	LAC4593
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
1/8/98	327 (2)	98620	3/20/98	44-40	125861	3/22/98	.11	DRK2986
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
1/8/98	328 (2)	098639	4/16/98	44-40	075084	4/27/98	.12	JJP1813
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
1/8/98	329 (2)	129440	6/10/98	44-40	075063	4/27/98	.13	LAC4593
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
1/8/98	330 (2)	129433	6/10/98	44-40	091051	4/29/98	.10	MEW9813
CALIBRATION DATES VERIFIED AS ACCEPTABLE								



Maine Yankee Atomic Power Plant Site Characterization

06/03/98

Removable Contamination - Gross Beta Activity

Survey Package A0300 SURFACES & STRUCTURES
 Containment Building - Elevation 46 ft.

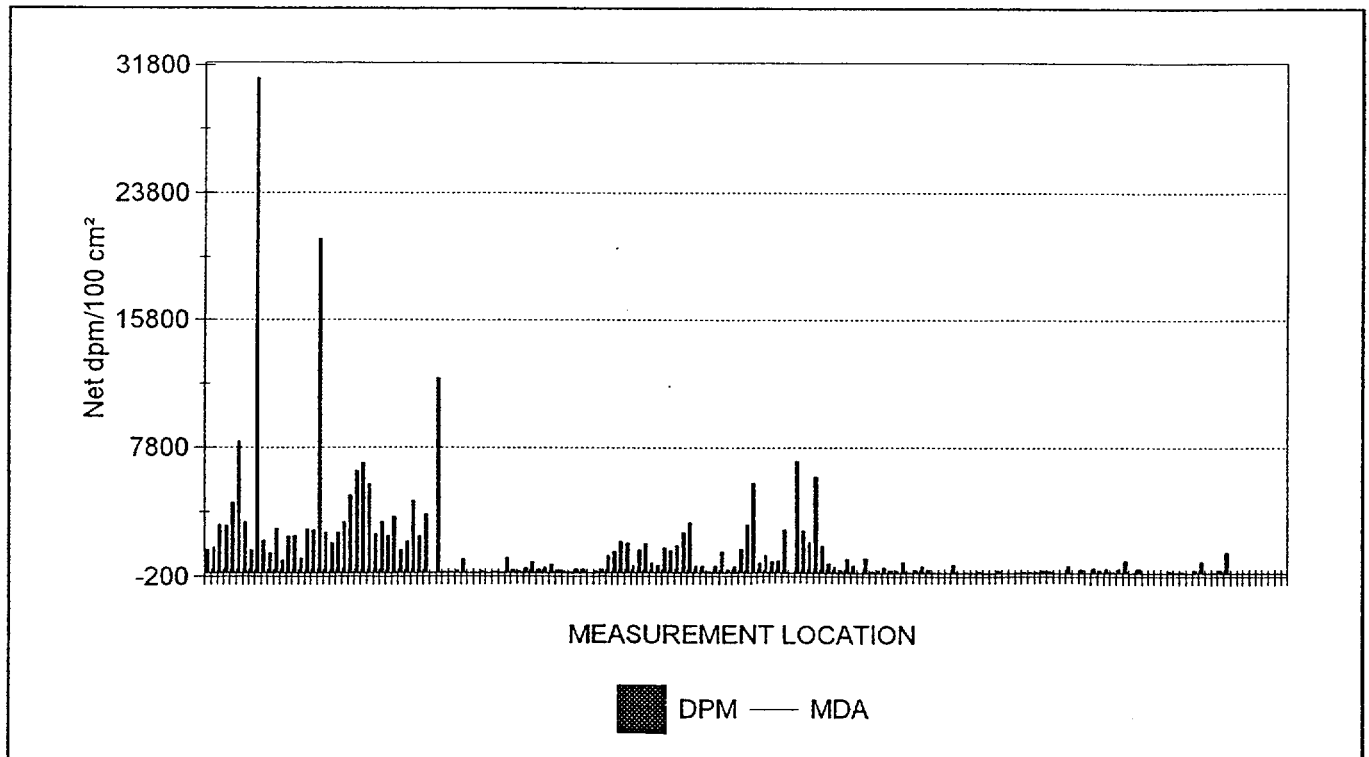
STATISTICAL SUMMARY

TESTS PERFORMED

	Net dpm/100 cm ²
Mean	1,469.2
Maximum	31,053.8
Minimum	-3.9
Standard Deviation	3,245.7
MDA	32.9

MDA <100 net dpm/100 cm ²	YES
Results above 100 net dpm/100 cm ²	131
Number of results above MDA	162

Samples Reported	172
Samples Prescribed	171



172 RESULTS ARE GRAPHED



Maine Yankee Atomic Power Plant Site Characterization

06/03/98

Removable Contamination - Gross Alpha Activity

Survey Package A0300 SURFACES & STRUCTURES
 Containment Building - Elevation 46 ft.

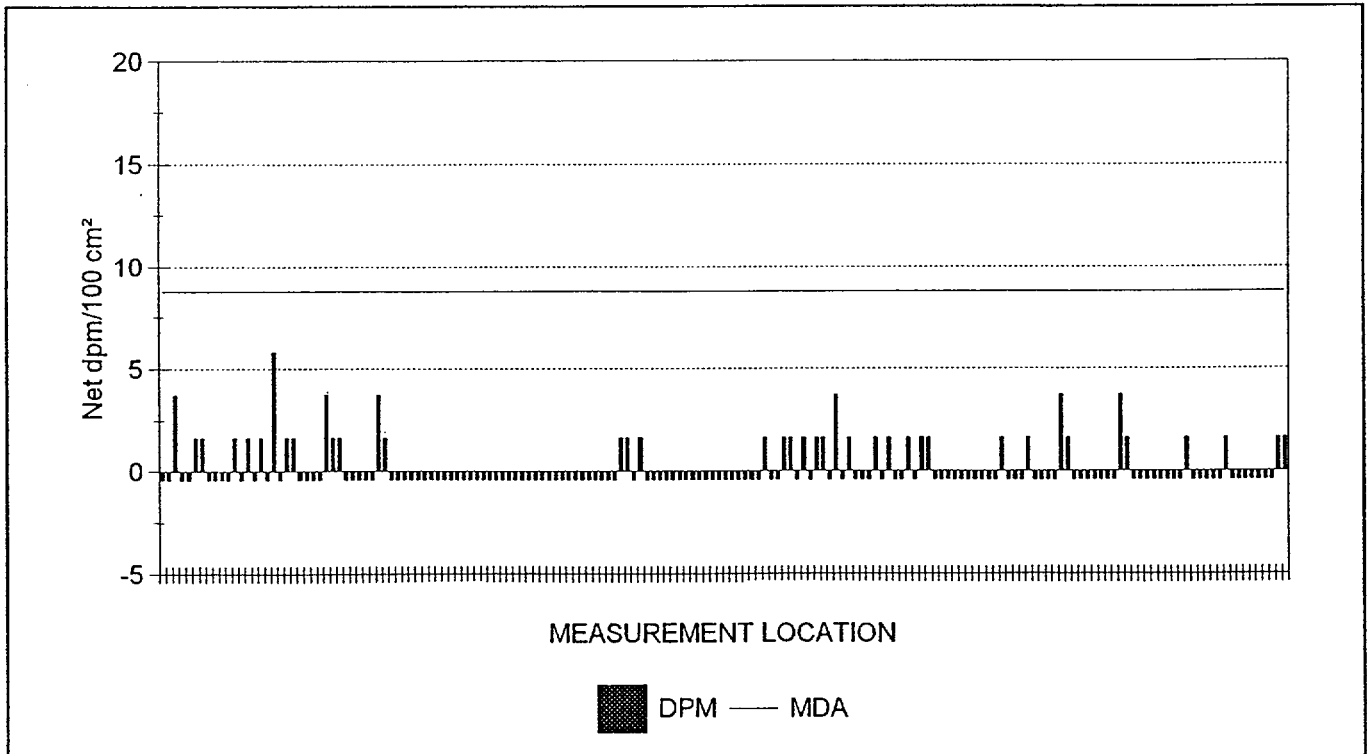
STATISTICAL SUMMARY

TESTS PERFORMED

	Net dpm/100 cm ²
Mean	0.2
Maximum	5.8
Minimum	-0.4
Standard Deviation	1.1
MDA	8.7

MDA < 10 net dpm/100 cm ²	YES
Results above 20 net dpm/100 cm ²	0
Number of results above MDA	0

Samples Reported	172
Samples Prescribed	171



172 RESULTS ARE GRAPHED

Maine Yankee Atomic Power Plant Site Characterization

06/03/98

Removable Contamination

Survey Package : A0300 SURFACES & STRUCTURES
 Containment Building - Elevation 46 ft.

RESULTS LISTING - SORTED BY SURFACE CODE

XLS FILE	UNIT	SURFACE	REASON	MSRMNT LOCATION	ALPHA	BETA
SME1E018.XLS	01	WS8	C01	9	1.7	8.4
SME1E018.XLS	01	WS8	C01	8	1.7	45.3
SME1E018.XLS	01	WS8	C01	7	-0.4	-3.9
SME1E018.XLS	01	WS8	C01	6	-0.4	2.3
SME1E018.XLS	01	WS8	C01	5	-0.4	2.3
SME1E018.XLS	01	WS8	C01	4	-0.4	39.1
SME1E018.XLS	01	WS8	C01	3	-0.4	2.3
SME1E018.XLS	01	WS8	C01	2	-0.4	14.5
SME1E018.XLS	01	WS8	C01	1	-0.4	45.3
SME1E018.XLS	01	WS6	C01	6	1.7	<u>1,330.1</u>
SME1E018.XLS	01	WS6	C01	5	-0.4	<u>248.2</u>
SME1E018.XLS	01	WS6	C01	4	-0.4	88.3
SME1E018.XLS	01	WS6	C01	3	-0.4	82.2
SME1E018.XLS	01	WS6	C01	2	-0.4	<u>752.3</u>
SME1E018.XLS	01	WS6	C01	1	-0.4	<u>254.3</u>
SME1E018.XLS	01	WS3	C01	9	1.7	39.1
SME1E018.XLS	01	WS3	C01	8	-0.4	<u>100.6</u>
SME1E018.XLS	01	WS3	C01	7	-0.4	69.9
SME1E018.XLS	01	WS3	C01	6	-0.4	<u>162.1</u>
SME1E018.XLS	01	WS3	C01	5	-0.4	45.3
SME1E018.XLS	01	WS3	C01	4	-0.4	39.1
SME1E018.XLS	01	WS3	C01	3	-0.4	33.0
SME1E018.XLS	01	WS3	C01	2	-0.4	57.6
SME1E018.XLS	01	WS3	C01	1	-0.4	<u>328.1</u>
SME1E018.XLS	01	WS2	C01	9	1.7	45.3
SME1E018.XLS	01	WS2	C01	8	3.7	<u>813.7</u>
SME1E018.XLS	01	WS2	C01	7	-0.4	<u>303.5</u>
SME1E018.XLS	01	WS2	C01	6	-0.4	<u>125.2</u>
SME1E018.XLS	01	WS2	C01	5	-0.4	<u>309.6</u>
SME1E018.XLS	01	WS2	C01	4	-0.4	<u>229.7</u>
SME1E018.XLS	01	WS2	C01	3	-0.4	<u>346.5</u>
SME1E018.XLS	01	WS2	C01	20	-0.4	33.0
SME1E018.XLS	01	WS2	C01	2	-0.4	<u>278.9</u>
SME1E018.XLS	01	WS2	C01	19	1.7	39.1
SME1E018.XLS	01	WS2	C01	18	3.7	<u>481.8</u>
SME1E018.XLS	01	WS2	C01	17	-0.4	39.1
SME1E018.XLS	01	WS2	C01	16	-0.4	57.6
SME1E018.XLS	01	WS2	C01	15	-0.4	<u>155.9</u>
SME1E018.XLS	01	WS2	C01	14	-0.4	<u>192.8</u>
SME1E018.XLS	01	WS2	C01	13	1.7	<u>119.1</u>

NOTES: Activity reported in net dpm/100 cm².

Underlined values exceed the associated MDA.

Bold values exceed 100.00 dpm/100 cm² (beta activity) and/or 20.00 dpm/100 cm² (alpha activity).

Maine Yankee Atomic Power Plant Site Characterization

06/03/98

Removable Contamination

Survey Package : A0300 SURFACES & STRUCTURES
 Containment Building - Elevation 46 ft.

RESULTS LISTING - SORTED BY SURFACE CODE

XLS FILE	UNIT	SURFACE	REASON	MSRMNT LOCATION	ALPHA	BETA
SME1E018.XLS	01	WS2	C01	12	-0.4	<u>137.5</u>
SME1E018.XLS	01	WS2	C01	11	-0.4	<u>100.6</u>
SME1E018.XLS	01	WS2	C01	10	-0.4	63.7
SME1E018.XLS	01	WS2	C01	1	1.7	26.8
SME1E018.XLS	01	WS1	C01	9	-0.4	26.8
SME1E018.XLS	01	WS1	C01	8	-0.4	<u>211.3</u>
SME1E018.XLS	01	WS1	C01	7	-0.4	57.6
SME1E018.XLS	01	WS1	C01	6	-0.4	8.4
SME1E018.XLS	01	WS1	C01	5	-0.4	<u>143.6</u>
SME1E018.XLS	01	WS1	C01	4	-0.4	88.3
SME1E018.XLS	01	WS1	C01	3	-0.4	<u>112.9</u>
SME1E018.XLS	01	WS1	C01	27	-0.4	82.2
SME1E018.XLS	01	WS1	C01	26	-0.4	<u>580.1</u>
SME1E018.XLS	01	WS1	C01	25	-0.4	69.9
SME1E018.XLS	01	WS1	C01	24	1.7	63.7
SME1E018.XLS	01	WS1	C01	23	1.7	63.7
SME1E018.XLS	01	WS1	C01	22	-0.4	<u>266.6</u>
SME1E018.XLS	01	WS1	C01	21	1.7	<u>475.6</u>
SME1E018.XLS	01	WS1	C01	20	-0.4	<u>235.9</u>
SME1E018.XLS	01	WS1	C01	2	-0.4	94.5
SME1E018.XLS	01	WS1	C01	19	1.7	<u>733.8</u>
SME1E018.XLS	01	WS1	C01	18	-0.4	<u>211.3</u>
SME1E018.XLS	01	WS1	C01	17	1.7	<u>223.6</u>
SME1E018.XLS	01	WS1	C01	16	-0.4	<u>414.1</u>
SME1E018.XLS	01	WS1	C01	15	-0.4	<u>235.9</u>
SME1E018.XLS	01	WS1	C01	14	-0.4	<u>168.2</u>
SME1E018.XLS	01	WS1	C01	13	1.7	<u>967.4</u>
SME1E018.XLS	01	WS1	C01	12	-0.4	69.9
SME1E018.XLS	01	WS1	C01	11	3.7	<u>524.8</u>
SME1E018.XLS	01	WS1	C01	10	-0.4	<u>936.7</u>
SME1E018.XLS	01	WS1	C01	1	1.7	<u>242.0</u>
SME1E018.XLS	01	FL6	C01	2	1.7	<u>426.4</u>
SME1E018.XLS	01	FL6	C01	1	-0.4	<u>629.3</u>
SME1E018.XLS	01	FL5	C01	5	1.7	<u>1,742.0</u>
SME1E018.XLS	01	FL5	C01	4	-0.4	<u>6,008.5</u>
SME1E018.XLS	01	FL5	C01	3	1.7	<u>1,951.0</u>
SME1E018.XLS	01	FL5	C01	2	1.7	<u>2,694.9</u>
SME1E018.XLS	01	FL5	C01	1	-0.4	<u>6,961.3</u>
SME1E018.XLS	01	FL4	C01	5	-0.4	8.4
SME1E018.XLS	01	FL4	C01	4	1.7	<u>2,707.2</u>

NOTES: Activity reported in net dpm/100 cm².
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 Bold values exceed 100.00 dpm/100 cm² (beta activity) and/or 20.00 dpm/100 cm² (alpha activity).

Maine Yankee Atomic Power Plant Site Characterization

06/03/98

Removable Contamination

Survey Package : A0300 SURFACES & STRUCTURES
 Containment Building - Elevation 46 ft.

RESULTS LISTING - SORTED BY SURFACE CODE

XLS FILE	UNIT	SURFACE	REASON	MSRMNT LOCATION	ALPHA	BETA
SME1E018.XLS	01	FL4	C01	3	-0.4	<u>789.1</u>
SME1E018.XLS	01	FL4	C01	2	-0.4	<u>746.1</u>
SME1E018.XLS	01	FL4	C01	1	-0.4	<u>1,139.6</u>
SME1E018.XLS	01	FL3	C01	4	-0.4	<u>690.8</u>
SME1E018.XLS	01	FL3	C01	3	-0.4	<u>5,608.9</u>
SME1E018.XLS	01	FL3	C01	2	-0.4	<u>3,063.8</u>
SME1E018.XLS	01	FL3	C01	1	-0.4	<u>1,526.9</u>
SME1E018.XLS	01	FL2	C01	9	-0.4	<u>426.4</u>
SME1E018.XLS	01	FL2	C01	8	-0.4	<u>254.3</u>
SME1E018.XLS	01	FL2	C01	7	-0.4	<u>1,360.9</u>
SME1E018.XLS	01	FL2	C01	6	-0.4	<u>475.6</u>
SME1E018.XLS	01	FL2	C01	5	-0.4	<u>149.8</u>
SME1E018.XLS	01	FL2	C01	4	-0.4	<u>475.6</u>
SME1E018.XLS	01	FL2	C01	3	-0.4	<u>481.8</u>
SME1E018.XLS	01	FL2	C01	22	-0.4	<u>3,149.8</u>
SME1E018.XLS	01	FL2	C01	21	-0.4	<u>2,578.1</u>
SME1E018.XLS	01	FL2	C01	20	-0.4	<u>1,748.2</u>
SME1E018.XLS	01	FL2	C01	2	-0.4	<u>1,428.5</u>
SME1E018.XLS	01	FL2	C01	19	1.7	<u>1,612.9</u>
SME1E018.XLS	01	FL2	C01	18	-0.4	<u>537.1</u>
SME1E018.XLS	01	FL2	C01	17	1.7	<u>678.5</u>
SME1E018.XLS	01	FL2	C01	16	1.7	<u>1,871.1</u>
SME1E018.XLS	01	FL2	C01	15	-0.4	<u>1,483.8</u>
SME1E018.XLS	01	FL2	C01	14	-0.4	<u>537.1</u>
SME1E018.XLS	01	FL2	C01	13	-0.4	<u>1,914.2</u>
SME1E018.XLS	01	FL2	C01	12	-0.4	<u>1,987.9</u>
SME1E018.XLS	01	FL2	C01	11	-0.4	<u>1,373.2</u>
SME1E018.XLS	01	FL2	C01	10	-0.4	<u>1,127.3</u>
SME1E018.XLS	01	FL2	C01	1	-0.4	<u>266.6</u>
SME1E018.XLS	01	FL1	C01	9	-0.4	<u>162.1</u>
SME1E018.XLS	01	FL1	C01	8	-0.4	<u>69.9</u>
SME1E018.XLS	01	FL1	C01	7	-0.4	<u>272.7</u>
SME1E018.XLS	01	FL1	C01	6	-0.4	<u>278.9</u>
SME1E018.XLS	01	FL1	C01	5	-0.4	<u>137.5</u>
SME1E018.XLS	01	FL1	C01	4	-0.4	<u>162.1</u>
SME1E018.XLS	01	FL1	C01	3	-0.4	<u>248.2</u>
SME1E018.XLS	01	FL1	C01	26	-0.4	<u>549.4</u>
SME1E018.XLS	01	FL1	C01	25	-0.4	<u>420.3</u>
SME1E018.XLS	01	FL1	C01	24	-0.4	<u>278.9</u>
SME1E018.XLS	01	FL1	C01	23	-0.4	<u>715.4</u>

NOTES: Activity reported in net dpm/100 cm².

Underlined values exceed the associated MDA.

Bold values exceed 100.00 dpm/100 cm² (beta activity) and/or 20.00 dpm/100 cm² (alpha activity).

Maine Yankee Atomic Power Plant Site Characterization

06/03/98

Removable Contamination

Survey Package : A0300 SURFACES & STRUCTURES
 Containment Building - Elevation 46 ft.

RESULTS LISTING - SORTED BY SURFACE CODE

XLS FILE	UNIT	SURFACE	REASON	MSRMNT	ALPHA	BETA
				LOCATION		
SME1E018.XLS	01	FL1	C01	22	-0.4	<u>365.0</u>
SME1E018.XLS	01	FL1	C01	21	-0.4	<u>168.2</u>
SME1E018.XLS	01	FL1	C01	20	-0.4	<u>229.7</u>
SME1E018.XLS	01	FL1	C01	2	-0.4	<u>967.4</u>
SME1E018.XLS	01	FL1	C01	19	-0.4	94.5
SME1E018.XLS	01	FL1	C01	18	-0.4	<u>131.4</u>
SME1E018.XLS	01	FL1	C01	17	-0.4	33.0
SME1E018.XLS	01	FL1	C01	16	-0.4	<u>162.1</u>
SME1E018.XLS	01	FL1	C01	15	-0.4	33.0
SME1E018.XLS	01	FL1	C01	14	-0.4	57.6
SME1E018.XLS	01	FL1	C01	13	-0.4	<u>881.4</u>
SME1E018.XLS	01	FL1	C01	12	-0.4	<u>180.5</u>
SME1E018.XLS	01	FL1	C01	11	-0.4	<u>119.1</u>
SME1E018.XLS	01	FL1	C01	10	-0.4	<u>125.2</u>
SME1E018.XLS	01	FL1	C01	1	-0.4	<u>12,180.7</u>
SME1E018.XLS	01	FL1	C01	0	-0.4	76.0
SME1E018.XLS	01	EQ2	C01	9	-0.4	<u>3,629.3</u>
SME1E018.XLS	01	EQ2	C01	8	1.7	<u>2,338.3</u>
SME1E018.XLS	01	EQ2	C01	7	3.7	<u>4,477.7</u>
SME1E018.XLS	01	EQ2	C01	6	-0.4	<u>2,018.7</u>
SME1E018.XLS	01	EQ2	C01	5	-0.4	<u>1,477.7</u>
SME1E018.XLS	01	EQ2	C01	4	-0.4	<u>3,512.5</u>
SME1E018.XLS	01	EQ2	C01	3	-0.4	<u>2,362.9</u>
SME1E018.XLS	01	EQ2	C01	21	-0.4	<u>3,211.3</u>
SME1E018.XLS	01	EQ2	C01	20	1.7	<u>2,485.9</u>
SME1E018.XLS	01	EQ2	C01	2	1.7	<u>5,572.0</u>
SME1E018.XLS	01	EQ2	C01	19	3.7	<u>6,850.7</u>
SME1E018.XLS	01	EQ2	C01	18	-0.4	<u>6,358.9</u>
SME1E018.XLS	01	EQ2	C01	17	-0.4	<u>4,840.4</u>
SME1E018.XLS	01	EQ2	C01	16	-0.4	<u>3,223.6</u>
SME1E018.XLS	01	EQ2	C01	15	-0.4	<u>2,565.8</u>
SME1E018.XLS	01	EQ2	C01	14	1.7	<u>1,932.6</u>
SME1E018.XLS	01	EQ2	C01	13	1.7	<u>2,553.5</u>
SME1E018.XLS	01	EQ2	C01	12	-0.4	<u>20,959.4</u>
SME1E018.XLS	01	EQ2	C01	11	5.8	<u>2,713.3</u>
SME1E018.XLS	01	EQ2	C01	10	-0.4	<u>2,756.4</u>
SME1E018.XLS	01	EQ2	C01	1	1.7	<u>955.1</u>
SME1E018.XLS	01	EQ1	C01	9	-0.4	<u>2,344.5</u>
SME1E018.XLS	01	EQ1	C01	8	1.7	<u>2,319.9</u>
SME1E018.XLS	01	EQ1	C01	7	-0.4	<u>832.2</u>

NOTES: Activity reported in net dpm/100 cm².
 Underlined values exceed the associated MDA.
 Bold values exceed 100.00 dpm/100 cm² (beta activity) and/or 20.00 dpm/100 cm² (alpha activity).

Maine Yankee Atomic Power Plant Site Characterization

06/03/98

Removable Contamination

Survey Package : A0300 SURFACES & STRUCTURES
Containment Building - Elevation 46 ft.

RESULTS LISTING - SORTED BY SURFACE CODE

XLS FILE	UNIT	SURFACE	REASON	MSRMNT LOCATION	ALPHA	BETA
SME1E018.XLS	01	EQ1	C01	6	1.7	<u>2,787.1</u>
SME1E018.XLS	01	EQ1	C01	5	-0.4	<u>1,299.4</u>
SME1E018.XLS	01	EQ1	C01	4	-0.4	<u>2,092.4</u>
SME1E018.XLS	01	EQ1	C01	3	-0.4	<u>31,053.8</u>
SME1E018.XLS	01	EQ1	C01	2	-0.4	<u>1,496.1</u>
SME1E018.XLS	01	EQ1	C01	15	1.7	<u>3,192.9</u>
SME1E018.XLS	01	EQ1	C01	14	1.7	<u>8,197.0</u>
SME1E018.XLS	01	EQ1	C01	13	-0.4	<u>4,397.8</u>
SME1E018.XLS	01	EQ1	C01	12	-0.4	<u>3,014.6</u>
SME1E018.XLS	01	EQ1	C01	11	3.7	<u>3,039.2</u>
SME1E018.XLS	01	EQ1	C01	10	-0.4	<u>1,656.0</u>
SME1E018.XLS	01	EQ1	C01	1	-0.4	<u>1,483.8</u>

NOTES: Activity reported in net dpm/100 cm².
Underlined values exceed the associated MDA.
Bold values exceed 100.00 dpm/100 cm² (beta activity) and/or 20.00 dpm/100 cm² (alpha activity).
172 results are listed.



Maine Yankee Atomic Power Plant Site Characterization

DATAFILE & ALPHA - BETA COUNTER CALIBRATION SUMMARY

06/03/98

Removable Contamination

Survey Package : A0300 SURFACES & STRUCTURES
Containment Building - Elevation 46 ft.

SURVEYDATE	XLS FILE	INST ID	S/N	CAL DUE	LAB TECHNICIAN
2/23/98	SME1E018.XLS	1	15632	8/5/98	JWD

CALIBRATION DATE VERIFIED AS ACCEPTABLE



Maine Yankee Atomic Power Plant Site Characterization

03/30/98

Exposure Rate Measurements

Survey Package A0300 SURFACES & STRUCTURES
Containment Building - Elevation 46 ft.

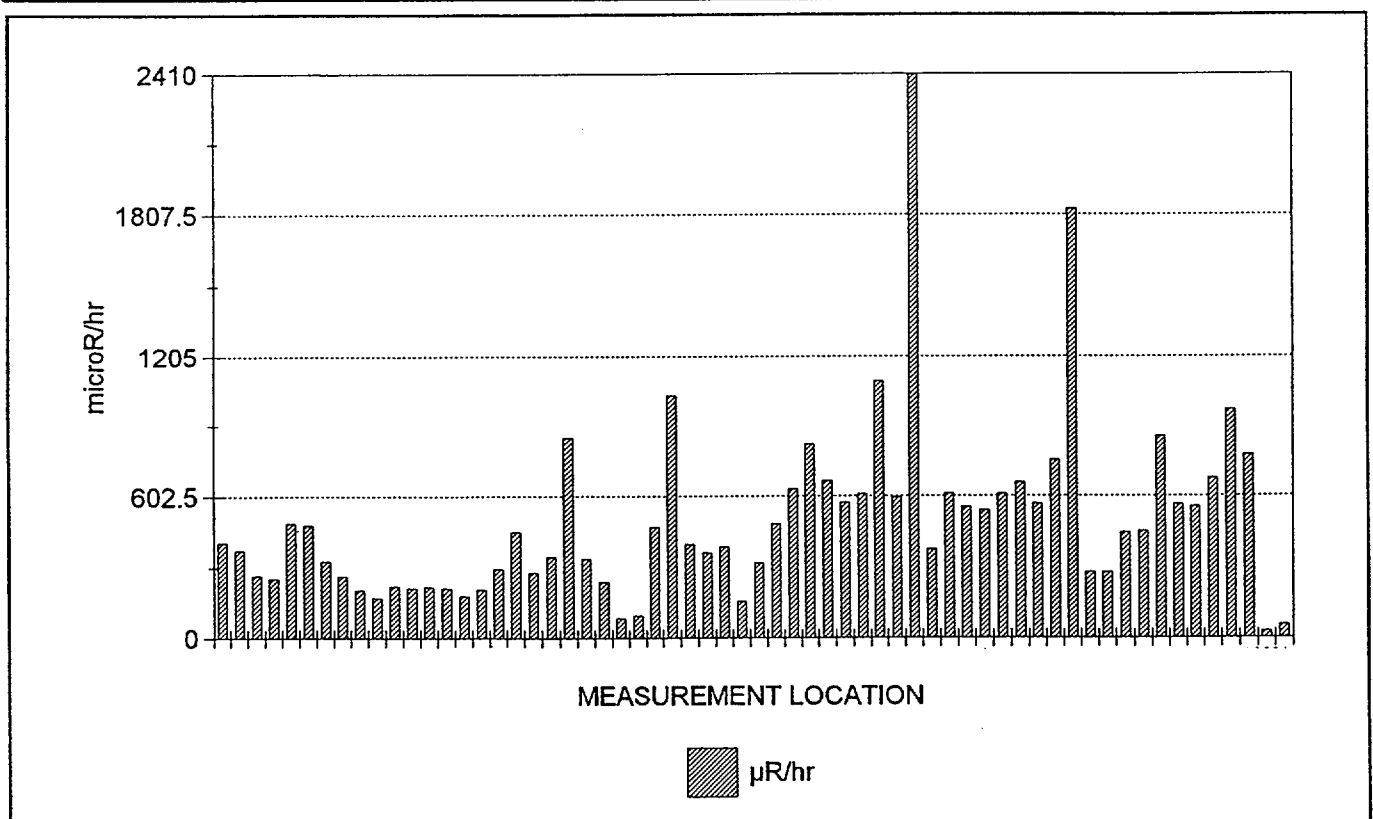
STATISTICAL SUMMARY

TESTS PERFORMED

	$\mu\text{R/hr}$
Mean	499.5
Maximum	2,407.5
Minimum	28.0
Standard Deviation	387.5

Samples reported satisfy samples prescribed	YES
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Samples Reported	62
Samples Prescribed	61



62 RESULTS ARE GRAPHED



Maine Yankee Atomic Power Plant Site Characterization

03/30/98

Exposure Rate Measurements

Survey Package : A0300 SURFACES & STRUCTURES
 Containment Building - Elevation 46 ft.

RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	RESULT
318 (2)	01	FL1	B9999	C01	60.00	00000	406.5
318 (2)	01	FL1	B9999	C01	60.00	00001	376.0
318 (2)	01	FL1	B9999	C01	60.00	00002	266.4
318 (2)	01	FL1	B9999	C01	60.00	00003	253.6
318 (2)	01	FL1	B9999	C01	60.00	00004	488.2
318 (2)	01	FL1	B9999	C01	60.00	00005	480.1
318 (2)	01	FL1	B9999	C01	60.00	00006	327.8
318 (2)	01	FL1	B9999	C01	60.00	00007	263.3
318 (2)	01	FL1	B9999	C01	60.00	00008	202.9
318 (2)	01	FL1	B9999	C01	60.00	00009	170.8
318 (2)	01	FL1	B9999	C01	60.00	00010	218.9
318 (2)	01	FL1	B9999	C01	60.00	00011	212.8
318 (2)	01	FL1	B9999	C01	60.00	00012	218.1
318 (2)	01	FL1	B9999	C01	60.00	00013	211.3
318 (2)	01	FL1	B9999	C01	60.00	00014	179.2
318 (2)	01	FL1	B9999	C01	60.00	00015	206.8
318 (2)	01	FL1	B9999	C01	60.00	00016	295.1
318 (2)	01	FL1	B9999	C01	60.00	00017	450.0
318 (2)	01	FL1	B9999	C01	60.00	00018	281.1
318 (2)	01	FL1	B9999	C01	60.00	00019	347.0
318 (2)	01	FL1	B9999	C01	60.00	00020	850.5
326 (2)	01	FL1	B9999	C01	60.00	00021	339.5
326 (2)	01	FL1	B9999	C01	60.00	00022	237.8
326 (2)	01	FL1	B9999	C01	60.00	00023	83.2
326 (2)	01	FL1	B9999	C01	60.00	00024	94.0
326 (2)	01	FL1	B9999	C01	60.00	00025	473.2
326 (2)	01	FL1	B9999	C01	60.00	00026	1033.0
326 (2)	01	FL2	B0001	C01	60.00	00001	399.7
326 (2)	01	FL2	B0001	C01	60.00	00002	363.0
326 (2)	01	FL2	B0001	C01	60.00	00003	389.8
326 (2)	01	FL2	B0001	C01	60.00	00004	155.6
326 (2)	01	FL2	B0001	C01	60.00	00005	321.6
326 (2)	01	FL2	B0001	C01	60.00	00006	487.2
326 (2)	01	FL2	B0001	C01	60.00	00007	632.1
326 (2)	01	FL2	B0001	C01	60.00	00008	823.3
326 (2)	01	FL2	B0001	C01	60.00	00009	668.2
326 (2)	01	FL2	B0001	C01	60.00	00010	575.1
326 (2)	01	FL2	B0001	C01	60.00	00011	612.1
326 (2)	01	FL2	B0001	C01	60.00	00012	1095.5
326 (2)	01	FL2	B0001	C01	60.00	00013	596.9

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

03/30/98

Exposure Rate Measurements

Survey Package : A0300 SURFACES & STRUCTURES
 Containment Building - Elevation 46 ft.

RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	RESULT
326 (2)	01	FL2	B0001	C01	60.00	00014	2407.5
326 (2)	01	FL2	B0001	C01	60.00	00015	376.6
326 (2)	01	FL2	B0001	C01	60.00	00016	615.0
326 (2)	01	FL2	B0001	C01	60.00	00017	558.1
326 (2)	01	FL2	B0001	C01	60.00	00018	542.9
326 (2)	01	FL2	B0001	C01	60.00	00019	611.9
326 (2)	01	FL3	B9999	C01	60.00	00001	660.3
326 (2)	01	FL3	B9999	C01	60.00	00002	569.5
326 (2)	01	FL3	B9999	C01	60.00	00003	755.7
326 (2)	01	FL3	B9999	C01	60.00	00004	1830.6
326 (2)	01	FL4	B9999	C01	60.00	00001	279.0
326 (2)	01	FL4	B9999	C01	60.00	00002	278.6
326 (2)	01	FL4	B9999	C01	60.00	00003	447.7
326 (2)	01	FL4	B9999	C01	60.00	00004	453.1
326 (2)	01	FL4	B9999	C01	60.00	00005	858.0
326 (2)	01	FL5	B9999	C01	60.00	00001	569.2
326 (2)	01	FL5	B9999	C01	60.00	00002	558.9
326 (2)	01	FL5	B9999	C01	60.00	00003	679.1
326 (2)	01	FL5	B9999	C01	60.00	00004	972.8
326 (2)	01	FL5	B9999	C01	60.00	00005	776.4
318 (2)	01	FL6	B0001	C01	60.00	00001	28.0
318 (2)	01	FL6	B0001	C01	60.00	00002	54.3

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



Maine Yankee Atomic Power Plant Site Characterization

DOWNLOAD FILE & SURVEY INSTRUMENTATION CALIBRATION SUMMARY

03/30/98

Exposure Rate Measurements

Survey Package : A0300 SURFACES & STRUCTURES
 Containment Building - Elevation 46 ft.

SURVEY DATE	FILE #	M2350		DETECTOR			TECHNICIAN
		INST S/N	CAL DUE	MODEL	S/N	CAL DUE	
1/7/98	318 (2)	126170	6/10/98	44-2	092400	6/11/98	MBK5187
CALIBRATION DATES VERIFIED AS ACCEPTABLE							
1/8/98	326 (2)	126170	6/10/98	44-2	092400	6/11/98	MBK5187
CALIBRATION DATES VERIFIED AS ACCEPTABLE							



Maine Yankee Atomic Power Plant Site Characterization

04/02/98

CHARACTERIZATION SUMMARY

SURVEY PACKAGE NUMBER A0400

SURFACES & STRUCTURES

PACKAGE DESCRIPTION

Fuel Building - Elevation 21 ft.

Includes: Lower Level with Bermed Area, Upper Level with Fuel Pool Area, Pipe Tunnel and Hazardous Material Storage Room

SURVEY AREA DESCRIPTION

Fuel Building

GENERAL HISTORICAL INFORMATION (Operational history, etc.)

The Fuel Building is a two-story, heavy steel frame structure with painted epoxy floors, painted block walls on the lower level and metal frame and sheet metal walls on the upper level. The 21' elevation has a roll-up door at the west end used for new fuel unloading and equipment access. The floor plugs in this area access a pipe tunnel leading to the RCA building. The spent fuel pool sample area is located above the grating under the staircase. The Heat Exchanger area is a posted Contaminated area. General Area dose rates 2-50 mr/hr. The rooms west of the heat exchanger is used to store hazardous materials. Adjacent is a bermed area with glove box used to clean tools. Trench drains empty into the fuel pool sample sump. Fuel pool area, 44'6" elevation has just completed a re-rack and is posted as Contaminated Area/Hot Particle Area.

SUMMARY OF CHARACTERIZATION ACTIVITIES

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

Collected 155 direct measurements for total beta activity at the survey measurement locations indicated in the results listing report. Due to elevated background radioactivity in the survey area, a scan of a two meter area encompassing each survey measurement location was not performed. Each direct measurement for total beta activity was accompanied by a corresponding background measurement at the same location. The background was used in the calculation of net dpm/100cm².

Collected smear samples to analyze for removable alpha and beta activity at the same 155 survey locations as the direct measurements for total beta activity.

Collected one meter exposure rate measurements at 52 survey locations indicated in the results listing report.

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 SUMMARY

04/02/98

CHARACTERIZATION SURVEY RESULTS

- o There were 39 direct measurements for total beta activity above 2000 dpm/100cm². There were 26 direct measurements for total beta activity above the individual measurements' MDA (Maximum MDA was 12,436 dpm/100cm²). The maximum measurement result was 312,939 dpm/100cm².
 - o There were 28 measurements for removable beta activity above MDA (32 dpm/100cm²) and 13 results greater than 100 dpm/100cm². The maximum measurement result was 879 dpm/100cm².
 - o There were no measurements for removable alpha activity above MDA (8.5 dpm/100cm²).
 - o The average and maximum exposure rate measurement results were 0.7 mR/hr and 2.9 mR/hr, respectively.
-

REFERENCES (Documents, Interviews)



Maine Yankee Atomic Power Plant Site Characterization

SUMMARY OF SURVEY UNIT(S)

03/29/98

OUTPUT BATCH SN = 261

PACKAGE A0400 SURFACES & STRUCTURES

Fuel Building - Elevation 21 ft.

Includes: Lower Level with Bermed Area, Upper Level with Fuel Pool Area, Pipe Tunnel and Hazardous Material Storage Room

UNIT(S)	SURFACE(S)
01 - Lower Level with Bermed Area	CL1 (Ceiling) EQ1 (Plant Equipment (exterior)) FD1 (Includes Trench Drains and Fuel Pool Sample Sump) FL1 (Includes RCA Sump and Berm Area) SW1 (Stairway) WS1 (Wall Surface (interior))
02 - Upper Level with Fuel Pool Area	CL1 (Ceiling) EQ1 (Misc. equipment and Upper & lower crane) FL1 (Floor Surface) WS1 (Wall Surface (interior))
04 - Fuel Storage Room	CL1 (Ceiling) EQ1 (Plant Equipment (exterior)) FL1 (Floor Surface) WS1 (Wall Surface (interior))
05 - Ventilation Equipment Room -36'	CL1 (Ceiling) EQ1 (Equipment) FL1 (Floor) WS1 (Wall Surface (interior))

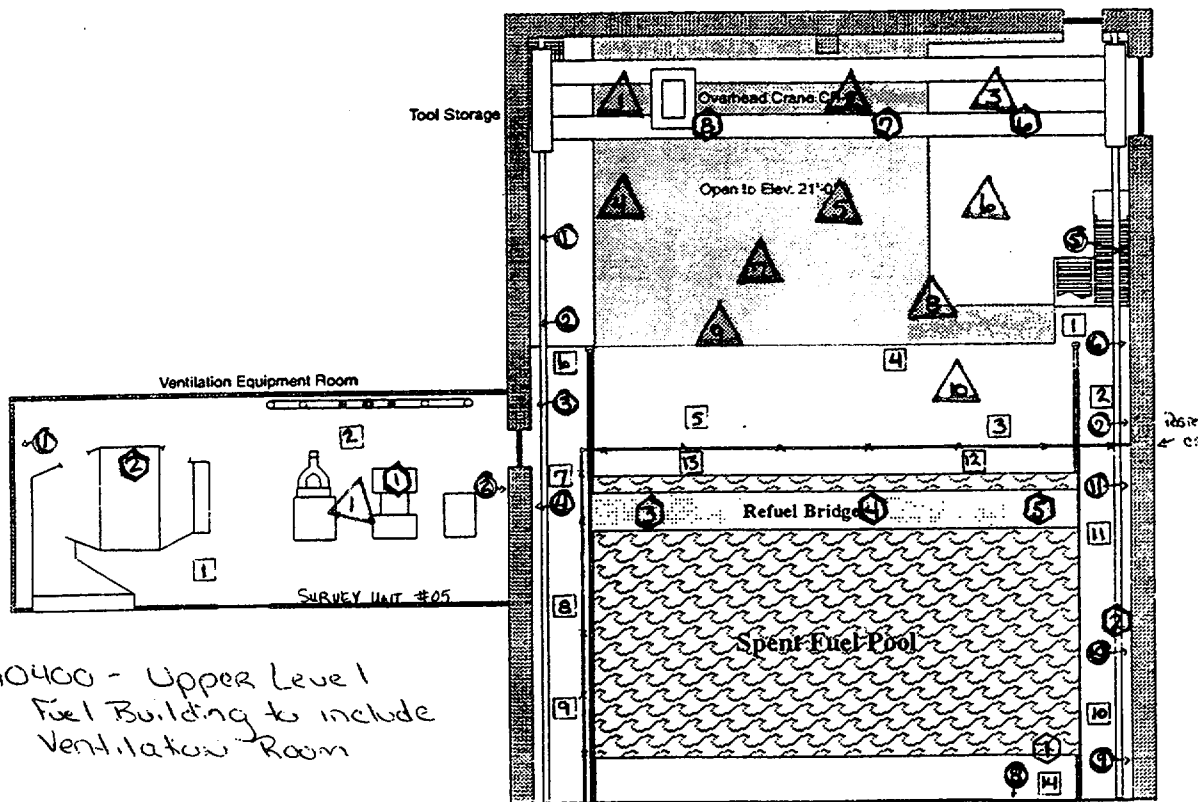
REASON(S) CHARACTERIZATION SURVEY (C01)

MATERIALS	MAT'L CODE	MATERIAL DESCRIPTION	BETA BKGD (dpm/100 cm ²)
	B0001	CONCRETE - PAINTED (INTERIOR)	478.0
	B0003	CINDER BLOCK - PAINTED (INTERIOR)	478.0
	B0031	METAL - BARE	0.0
	B0036	METAL - PAINTED	0.0
	B9999	OTHER	0.0

Maine Yankee Atomic Power Plant Site Characterization

SURVEY PACKAGE A0400

Fuel Building 44 ft 6 inch



90400 - Upper Level
 Fuel Building to include
 Ventilation Room

- ⊙ - survey points on walls - 02W1
- ⊞ - survey points on floors - 02F1
- ⬡ - survey points on equipment - 02E1
- ⚠ - survey points on ceilings - 02C1



Maine Yankee Atomic Power Plant Site Characterization

SURVEY PACKAGE A0400

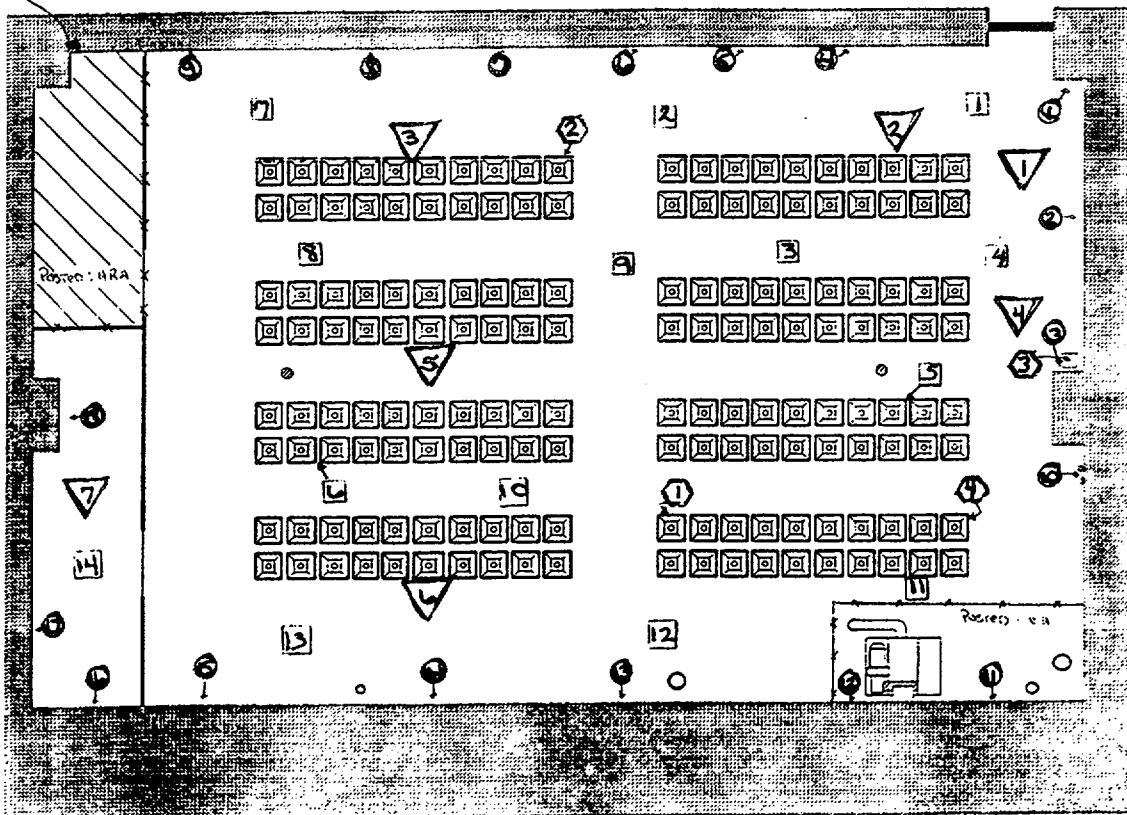
A0400 - New Fuel Storage Rm.

- ⊕ - survey points on walls - of WSI
- ⊞ - survey points on floors - of FLI
- ⊙ - survey points on equipment - of EQI
- ▽ - survey points on ceilings - of CEI



Fuel Building 31 ft 1 inch

Area to which is Dose Rates to be surveyed



Maine Yankee Atomic Power Plant Site Characterization

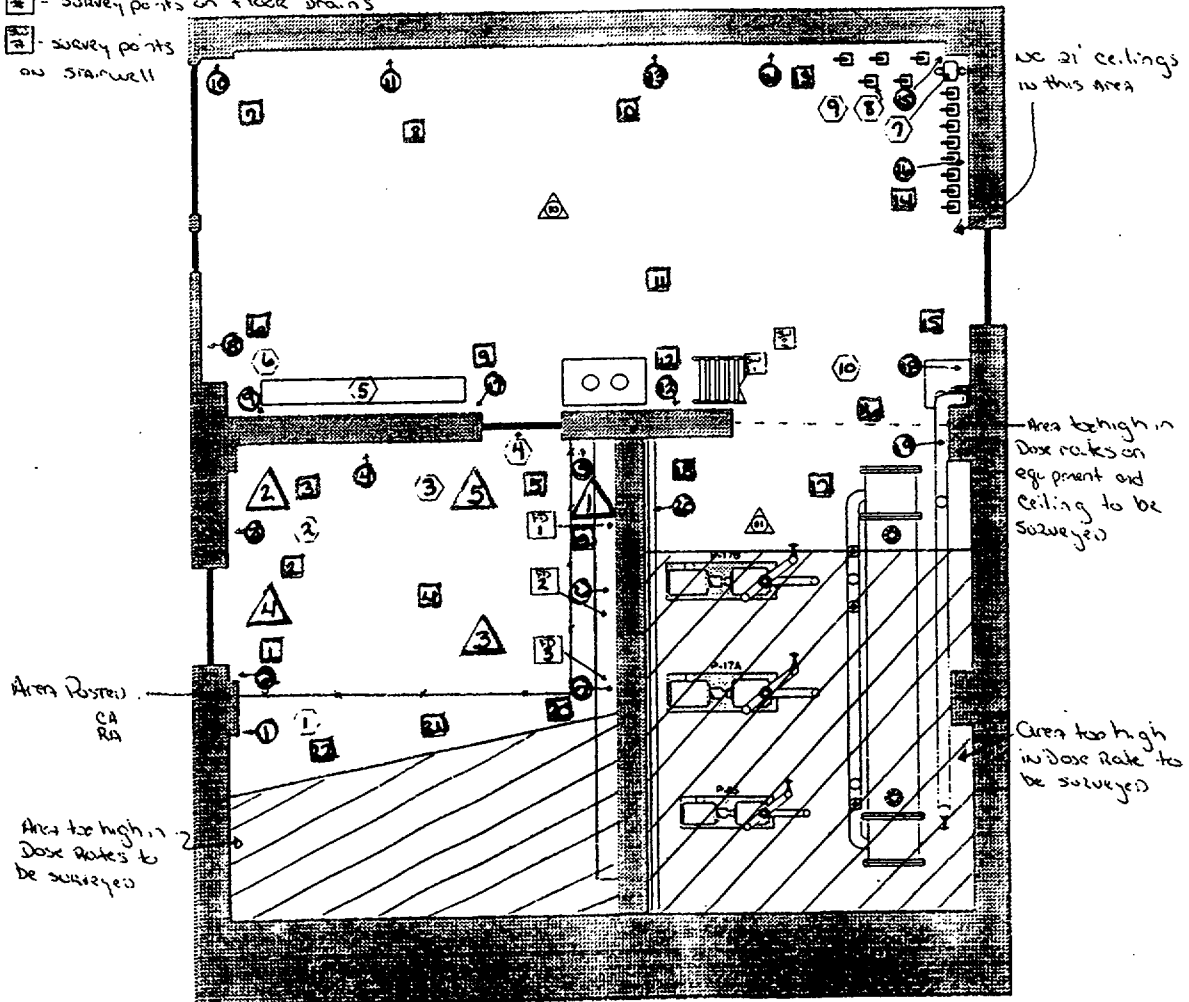
SURVEY PACKAGE A0400

A0400

Lower Level Fuel Building

- ⊕ - survey points on walls - rssi
- ⊞ - survey points on floors - rssi
- ⊞ - survey points on equipment - rssi
- △ - survey points on ceilings - rssi
- ⊞ - survey points on floor drains
- ⊞ - survey points on stairwell

Fuel Building 21 ft





Maine Yankee Atomic Power Plant Site Characterization

03/31/98

Direct Measurements For Total Beta Activity

Survey Package A0400 SURFACES & STRUCTURES
 Fuel Building - Elevation 21 ft.
 Includes: Lower Level with Bermed Area, Upper Level with Fuel Pool Area,
 Pipe Tunnel and Hazardous Material Storage Room

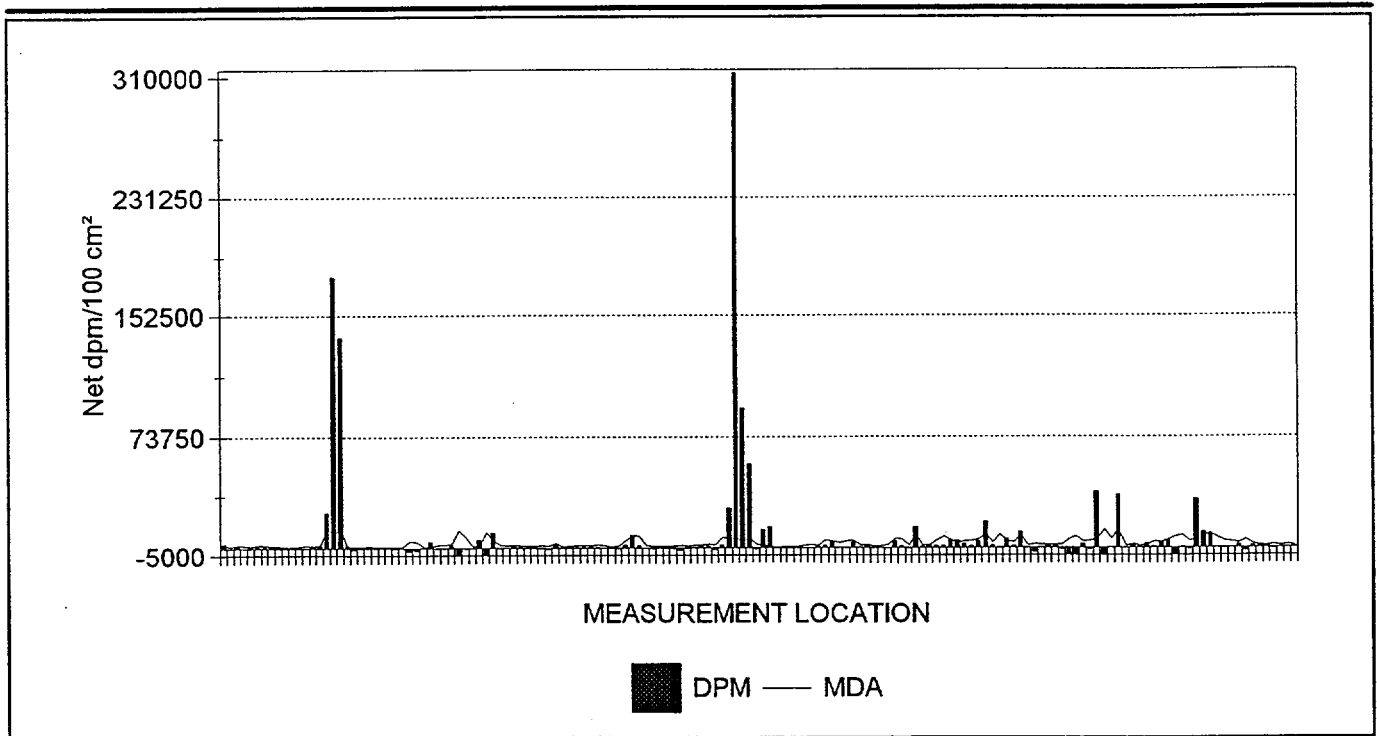
STATISTICAL SUMMARY

TESTS PERFORMED

	Net dpm/100 cm ²
Mean	6,814.8
Maximum	312,938.6
Minimum	-32,552.4
Standard Deviation	32,365.4
MDA	12,435.5

Samples reported satisfy samples prescribed	YES
MDA <2000 net dpm/100 cm ²	NO
Results above 2000 net dpm/100 cm ²	39
Number of results above MDA	26

Samples Reported	155
Samples Prescribed	155



155 RESULTS ARE GRAPHED



Maine Yankee Atomic Power Plant Site Characterization

03/31/98

Direct Measurements For Total Beta Activity

Survey Package : A0400 SURFACES & STRUCTURES

Fuel Building - Elevation 21 ft.

Includes: Lower Level with Bermed Area, Upper Level with Fuel Pool Area,
Pipe Tunnel and Hazardous Material Storage Room

RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	MDA	RESULT
413 (2)	01	CL1	B0001	C01	10	00001	2,044.4	<u>3,077.1</u>
413 (2)	01	CL1	B0001	C01	10	00002	1,268.5	-30.7
413 (2)	01	CL1	B0001	C01	10	00003	2,048.9	1,688.0
413 (2)	01	CL1	B0001	C01	10	00004	1,793.1	-77.8
413 (2)	01	CL1	B0001	C01	10	00005	1,297.4	181.2
413 (2)	01	EQ1	B0036	C01	10	00001	1,892.0	941.7
413 (2)	01	EQ1	B0036	C01	10	00002	2,033.3	706.3
413 (2)	01	EQ1	B0036	C01	10	00003	1,238.9	871.1
413 (2)	01	EQ1	B0036	C01	10	00004	1,311.5	-141.3
413 (2)	01	EQ1	B0036	C01	10	00005	1,029.4	235.4
413 (2)	01	EQ1	B0036	C01	10	00006	746.6	94.2
413 (2)	01	EQ1	B0036	C01	10	00007	1,242.7	23.5
413 (2)	01	EQ1	B0036	C01	10	00008	1,522.8	164.8
413 (2)	01	EQ1	B0036	C01	10	00009	1,409.9	<u>1,553.9</u>
413 (2)	01	EQ1	B0036	C01	10	00010	2,135.6	1,648.1
412 (2)	01	FD1	B0001	C01	60	00001	11,922.	<u>23,522.2</u>
412 (2)	01	FD1	B0001	C01	60	00002	10,511.	<u>177,817.4</u>
412 (2)	01	FD1	B0001	C01	60	00003	12,385.	<u>138,208.7</u>
413 (2)	01	FL1	B0001	C01	60	00001	707.2	<u>1,668.4</u>
413 (2)	01	FL1	B0001	C01	60	00002	932.8	-807.6
413 (2)	01	FL1	B0001	C01	60	00003	736.2	-466.2
413 (2)	01	FL1	B0001	C01	60	00004	1,080.7	1,064.1
413 (2)	01	FL1	B0001	C01	60	00005	782.6	-117.0
413 (2)	01	FL1	B0001	C01	60	00006	699.5	-207.2
413 (2)	01	FL1	B0001	C01	60	00007	797.6	40.0
413 (2)	01	FL1	B0001	C01	60	00008	839.2	-219.0
413 (2)	01	FL1	B0001	C01	60	00009	793.6	-179.8
412 (2)	01	FL1	B0001	C01	60	00010	4,515.0	-2,268.2
412 (2)	01	FL1	B0001	C01	60	00011	4,064.7	-1,764.7
413 (2)	01	FL1	B0001	C01	60	00012	863.6	-26.7
413 (2)	01	FL1	B0001	C01	60	00013	742.7	<u>4,148.3</u>
413 (2)	01	FL1	B0001	C01	10	00014	1,877.5	-454.5
413 (2)	01	FL1	B0001	C01	10	00015	1,958.2	-501.5
413 (2)	01	FL1	B0001	C01	10	00016	2,903.8	<u>2,276.6</u>
412 (2)	01	FL1	B0001	C01	60	00017	11,518.	-8,422.1
412 (2)	01	FL1	B0001	C01	60	00018	7,077.7	-589.9
413 (2)	01	FL1	B0001	C01	10	00019	1,279.4	-266.1
413 (2)	01	FL1	B0001	C01	10	00020	1,733.6	<u>5,502.1</u>
412 (2)	01	FL1	B0001	C01	60	00021	10,412.	-5,009.5
412 (2)	01	FL1	B0001	C01	60	00022	5,402.9	<u>10,095.5</u>

NOTES: Activity reported in net dpm/100 cm². Count times are reported in seconds.

Underlined values exceed the MDA.

Bold values exceed 2000 dpm/100 cm².

Maine Yankee Atomic Power Plant Site Characterization

03/31/98

Direct Measurements For Total Beta Activity

Survey Package : A0400 SURFACES & STRUCTURES

Fuel Building - Elevation 21 ft.

Includes: Lower Level with Bermed Area, Upper Level with Fuel Pool Area,
Pipe Tunnel and Hazardous Material Storage Room

RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	MDA	RESULT
413 (2)	01	SW1	B0001	C01	10	00001	2,198.3	-313.2
413 (2)	01	SW1	B0001	C01	10	00002	1,525.8	581.5
413 (2)	01	WS1	B0001	C01	10	00001	1,882.4	<u>2,182.4</u>
413 (2)	01	WS1	B0001	C01	10	00002	1,704.4	675.6
413 (2)	01	WS1	B0001	C01	10	00003	1,360.0	181.2
413 (2)	01	WS1	B0001	C01	10	00004	1,223.9	-195.5
413 (2)	01	WS1	B0001	C01	10	00005	1,777.8	-360.3
422 (2)	01	WS1	B0001	C01	10	00006	1,396.1	-902.9
412 (2)	01	WS1	B0001	C01	60	00007	3,307.5	<u>2,543.0</u>
413 (2)	01	WS1	B0001	C01	10	00009	771.9	63.5
413 (2)	01	WS1	B0001	C01	10	00010	1,290.2	1,005.2
413 (2)	01	WS1	B0001	C01	10	00011	1,610.6	534.4
413 (2)	01	WS1	B0001	C01	10	00012	1,777.8	487.3
413 (2)	01	WS1	B0001	C01	10	00013	1,519.8	1,028.8
413 (2)	01	WS1	B0001	C01	10	00014	1,906.4	416.7
413 (2)	01	WS1	B0001	C01	10	00015	1,570.2	-124.8
413 (2)	01	WS1	B0001	C01	10	00016	918.2	487.3
413 (2)	01	WS1	B0001	C01	10	00017	1,235.2	-242.6
412 (2)	01	WS1	B0001	C01	60	00018	4,937.1	<u>2,151.4</u>
412 (2)	01	WS1	B0001	C01	60	00019	8,468.9	<u>8,417.2</u>
412 (2)	01	WS1	B0001	C01	60	00020	7,960.5	1,703.8
413 (2)	01	WS1	B0036	C01	10	00008	1,528.8	117.7
491 (2)	02	CL1	B0036	C01	10	00001	1,046.8	-232.1
491 (2)	02	CL1	B0036	C01	10	00002	1,109.9	278.5
491 (2)	02	CL1	B0036	C01	10	00003	1,132.0	92.8
491 (2)	02	CL1	B0036	C01	10	00004	1,200.7	-417.8
491 (2)	02	CL1	B0036	C01	10	00005	1,503.7	-1,764.0
491 (2)	02	CL1	B0036	C01	10	00006	1,210.9	-23.2
491 (2)	02	CL1	B0036	C01	10	00007	1,531.8	417.8
491 (2)	02	CL1	B0036	C01	10	00008	1,902.0	1,369.4
491 (2)	02	CL1	B0036	C01	10	00009	2,475.3	1,114.1
491 (2)	02	CL1	B0036	C01	10	00010	1,991.7	-1,207.0
439 (2)	02	EQ1	B0031	C01	60	00002	6,952.6	<u>2,275.3</u>
439 (2)	02	EQ1	B0036	C01	60	00001	6,390.2	<u>26,360.3</u>
439 (2)	02	EQ1	B0036	C01	60	00003	6,122.7	<u>312,938.6</u>
439 (2)	02	EQ1	B0036	C01	60	00004	4,455.6	<u>92,621.8</u>
439 (2)	02	EQ1	B0036	C01	60	00005	6,342.0	<u>55,939.4</u>
491 (2)	02	EQ1	B0036	C01	10	00006	2,323.0	-951.6
491 (2)	02	EQ1	B0036	C01	10	00007	1,104.4	<u>12,092.8</u>
491 (2)	02	EQ1	B0036	C01	10	00008	1,016.7	<u>13,856.8</u>

NOTES: Activity reported in net dpm/100 cm². Count times are reported in seconds.

Underlined values exceed the MDA.

Bold values exceed 2000 dpm/100 cm².



Maine Yankee Atomic Power Plant Site Characterization

03/31/98

Direct Measurements For Total Beta Activity

Survey Package : A0400 SURFACES & STRUCTURES

Fuel Building - Elevation 21 ft.

Includes: Lower Level with Bermed Area, Upper Level with Fuel Pool Area,
Pipe Tunnel and Hazardous Material Storage Room

RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	MDA	RESULT
440 (2)	02	FL1	B0001	C01	10	00001	498.7	-261.1
440 (2)	02	FL1	B0001	C01	10	00002	1,021.5	-44.2
440 (2)	02	FL1	B0001	C01	10	00004	786.6	-44.2
440 (2)	02	FL1	B0001	C01	10	00006	950.1	-44.2
440 (2)	02	FL1	B0001	C01	10	00007	1,475.3	-0.8
440 (2)	02	FL1	B0001	C01	10	00008	1,892.1	86.0
440 (2)	02	FL1	B0001	C01	10	00009	1,768.5	649.9
439 (2)	02	FL1	B0001	C01	60	00010	5,015.4	1,575.3
439 (2)	02	FL1	B0001	C01	60	00011	4,577.7	<u>4,572.1</u>
439 (2)	02	FL1	B0001	C01	60	00012	3,227.3	354.4
439 (2)	02	FL1	B0001	C01	60	00013	4,667.2	354.4
439 (2)	02	FL1	B0001	C01	60	00014	4,848.1	<u>3,573.2</u>
440 (2)	02	FL1	B9999	C01	10	00003	1,789.3	520.6
440 (2)	02	FL1	B9999	C01	10	00005	2,062.1	629.0
440 (2)	02	WS1	B0001	C01	10	00005	961.5	-109.3
440 (2)	02	WS1	B0001	C01	10	00006	1,213.9	-196.0
440 (2)	02	WS1	B0001	C01	10	00007	2,000.1	-0.8
439 (2)	02	WS1	B0001	C01	60	00010	6,044.1	<u>4,405.6</u>
439 (2)	02	WS1	B0001	C01	60	00011	6,027.1	1,297.9
440 (2)	02	WS1	B0003	C01	10	00003	1,538.6	-217.7
439 (2)	02	WS1	B0003	C01	60	00008	9,319.5	<u>13,617.8</u>
440 (2)	02	WS1	B0036	C01	10	00001	1,707.9	867.6
440 (2)	02	WS1	B0036	C01	10	00002	1,602.6	1,127.9
440 (2)	02	WS1	B0036	C01	10	00004	4,833.2	1,301.5
439 (2)	02	WS1	B0036	C01	60	00009	7,421.6	1,220.9
423 (2)	04	CL1	B0001	C01	60	00003	5,556.3	<u>5,149.1</u>
423 (2)	04	CL1	B0001	C01	60	00004	3,326.8	<u>4,980.3</u>
423 (2)	04	CL1	B0001	C01	60	00007	4,724.9	<u>2,673.2</u>
423 (2)	04	CL1	B0031	C01	60	00002	4,656.9	1,069.1
423 (2)	04	CL1	B0031	C01	60	00005	5,977.5	<u>4,670.5</u>
423 (2)	04	CL1	B0031	C01	60	00006	8,736.7	<u>17,218.9</u>
423 (2)	04	CL1	B0036	C01	60	00001	3,674.9	1,463.0
423 (2)	04	EQ1	B0031	C01	60	00001	8,612.0	393.9
423 (2)	04	EQ1	B0031	C01	60	00002	4,641.7	<u>5,739.6</u>
423 (2)	04	EQ1	B0031	C01	60	00003	3,742.3	1,294.2
423 (2)	04	EQ1	B0031	C01	60	00004	8,599.8	<u>10,578.9</u>
422 (2)	04	FL1	B0001	C01	10	00001	1,657.9	129.0
422 (2)	04	FL1	B0001	C01	10	00002	2,432.6	-2,804.7
422 (2)	04	FL1	B0001	C01	10	00003	1,997.8	351.5
422 (2)	04	FL1	B0001	C01	10	00004	1,954.0	1,201.3

NOTES: Activity reported in net dpm/100 cm². Count times are reported in seconds.

Underlined values exceed the MDA.

Bold values exceed 2000 dpm/100 cm².



Maine Yankee Atomic Power Plant Site Characterization

03/31/98

Direct Measurements For Total Beta Activity

Survey Package : A0400 SURFACES & STRUCTURES

Fuel Building - Elevation 21 ft.

Includes: Lower Level with Bermed Area, Upper Level with Fuel Pool Area,
Pipe Tunnel and Hazardous Material Storage Room

RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	MDA	RESULT
422 (2)	04	FL1	B0001	C01	10	00005	2,184.9	1,079.9
422 (2)	04	FL1	B0001	C01	10	00006	2,264.5	-1,085.0
423 (2)	04	FL1	B0001	C01	60	00007	5,888.6	-7,511.9
423 (2)	04	FL1	B0001	C01	60	00008	7,422.3	-18,372.1
423 (2)	04	FL1	B0001	C01	60	00009	4,166.0	2,560.6
423 (2)	04	FL1	B0001	C01	60	00010	4,777.1	-1,209.5
423 (2)	04	FL1	B0001	C01	60	00011	5,296.3	36,998.4
423 (2)	04	FL1	B0001	C01	60	00012	12,213.	-32,552.4
423 (2)	04	FL1	B0001	C01	60	00013	5,822.5	366.1
423 (2)	04	FL1	B0001	C01	60	00014	12,435.	35,141.4
422 (2)	04	WS1	B0001	C01	10	00001	1,386.1	108.7
422 (2)	04	WS1	B0001	C01	10	00002	2,354.9	1,201.3
422 (2)	04	WS1	B0001	C01	10	00003	1,188.4	695.5
422 (2)	04	WS1	B0001	C01	10	00004	1,988.7	2,819.9
423 (2)	04	WS1	B0001	C01	60	00005	3,964.6	760.0
423 (2)	04	WS1	B0001	C01	60	00006	3,827.2	3,348.4
423 (2)	04	WS1	B0001	C01	60	00007	5,283.0	5,092.8
423 (2)	04	WS1	B0001	C01	60	00008	7,557.7	-6,048.8
423 (2)	04	WS1	B0001	C01	60	00009	8,423.5	478.6
423 (2)	04	WS1	B0001	C01	60	00010	4,679.7	-646.8
423 (2)	04	WS1	B0001	C01	60	00011	5,388.8	32,215.4
423 (2)	04	WS1	B0001	C01	60	00012	7,808.1	10,607.4
423 (2)	04	WS1	B0001	C01	60	00013	9,671.9	8,750.4
423 (2)	04	WS1	B0001	C01	60	00014	6,571.0	366.1
423 (2)	04	WS1	B0001	C01	60	00015	4,739.9	-478.0
423 (2)	04	WS1	B0001	C01	60	00016	4,148.9	-27.8
423 (2)	04	WS1	B0001	C01	60	00017	3,401.5	1,885.4
423 (2)	04	WS1	B0001	C01	60	00018	5,421.4	-1,997.3
440 (2)	05	CL1	B0036	C01	10	00001	2,299.6	1,409.9
440 (2)	05	EQ1	B0036	C01	10	00001	1,542.0	672.4
440 (2)	05	EQ1	B0036	C01	10	00002	1,409.0	802.6
440 (2)	05	FL1	B0001	C01	10	00001	2,002.7	-673.2
440 (2)	05	FL1	B0001	C01	10	00002	1,343.3	-152.6
440 (2)	05	WS1	B0003	C01	10	00002	2,197.3	237.8
440 (2)	05	WS1	B0036	C01	10	00001	1,507.3	932.7

NOTES: Activity reported in net dpm/100 cm². Count times are reported in seconds.
Underlined values exceed the MDA.
Bold values exceed 2000 dpm/100 cm².
155 results are listed.



Maine Yankee Atomic Power Plant Site Characterization

DOWNLOAD FILE & SURVEY INSTRUMENTATION CALIBRATION SUMMARY

03/31/98

Direct Measurements For Total Beta Activity

Survey Package : A0400 SURFACES & STRUCTURES

Fuel Building - Elevation 21 ft.

Includes: Lower Level with Bermed Area, Upper Level with Fuel Pool Area,
Pipe Tunnel and Hazardous Material Storage Room

SURVEY DATE	FILE #	M2350		DETECTOR			PRE EFF	TECHNICIAN
		INST S/N	CAL DUE	MODEL	S/N	CAL DUE		
1/15/98	412 (2)	098639	4/16/98	44-40	075084	4/27/98	.12	JJP1813
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
1/15/98	413 (2)	129440	6/10/98	43-106	128926	6/5/98	.20	LAC4593
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
1/16/98	422 (2)	129440	6/10/98	43-106	128926	6/5/98	.24	LAC4593
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
1/16/98	423 (2)	098639	4/16/98	44-40	075084	4/27/98	.11	JJP1813
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
1/19/98	439 (2)	098639	4/16/98	44-40	075084	4/27/98	.12	JJP1813
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
1/19/98	440 (2)	129440	6/10/98	43-106	128926	6/5/98	.22	LAC4593
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
1/27/98	491 (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

03/30/98

Removable Contamination - Gross Beta Activity

Survey Package A0400 SURFACES & STRUCTURES
 Fuel Building - Elevation 21 ft.
 Includes: Lower Level with Bermed Area, Upper Level with Fuel Pool Area,
 Pipe Tunnel and Hazardous Material Storage Room

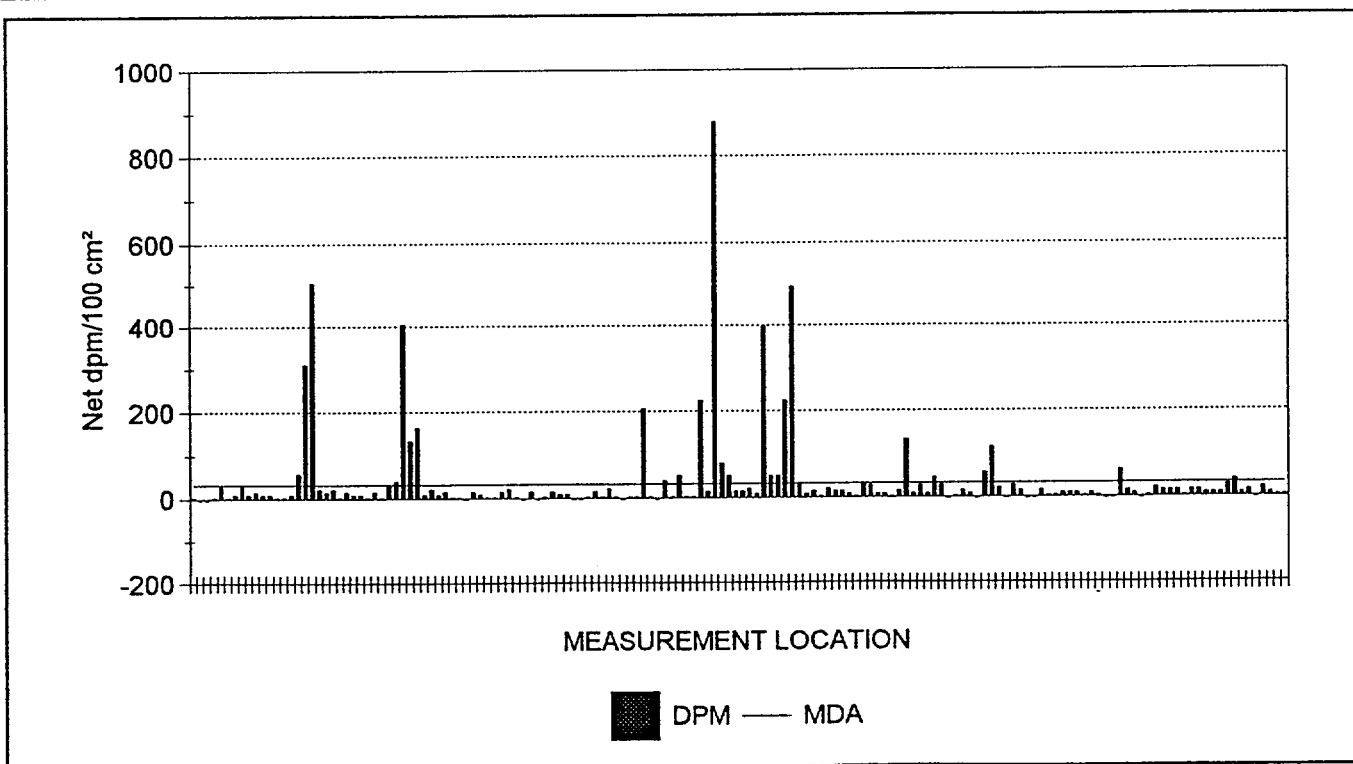
STATISTICAL SUMMARY

TESTS PERFORMED

	Net dpm/100 cm ²
Mean	38.4
Maximum	878.9
Minimum	-3.7
Standard Deviation	106.2
MDA	31.9

MDA <100 net dpm/100 cm ²	YES
Results above 100 net dpm/100 cm ²	13
Number of results above MDA	28

Samples Reported	155
Samples Prescribed	155



155 RESULTS ARE GRAPHED



Maine Yankee Atomic Power Plant Site Characterization

03/30/98

Removable Contamination - Gross Alpha Activity

Survey Package A0400 SURFACES & STRUCTURES
 Fuel Building - Elevation 21 ft.
 Includes: Lower Level with Bermed Area, Upper Level with Fuel Pool Area,
 Pipe Tunnel and Hazardous Material Storage Room

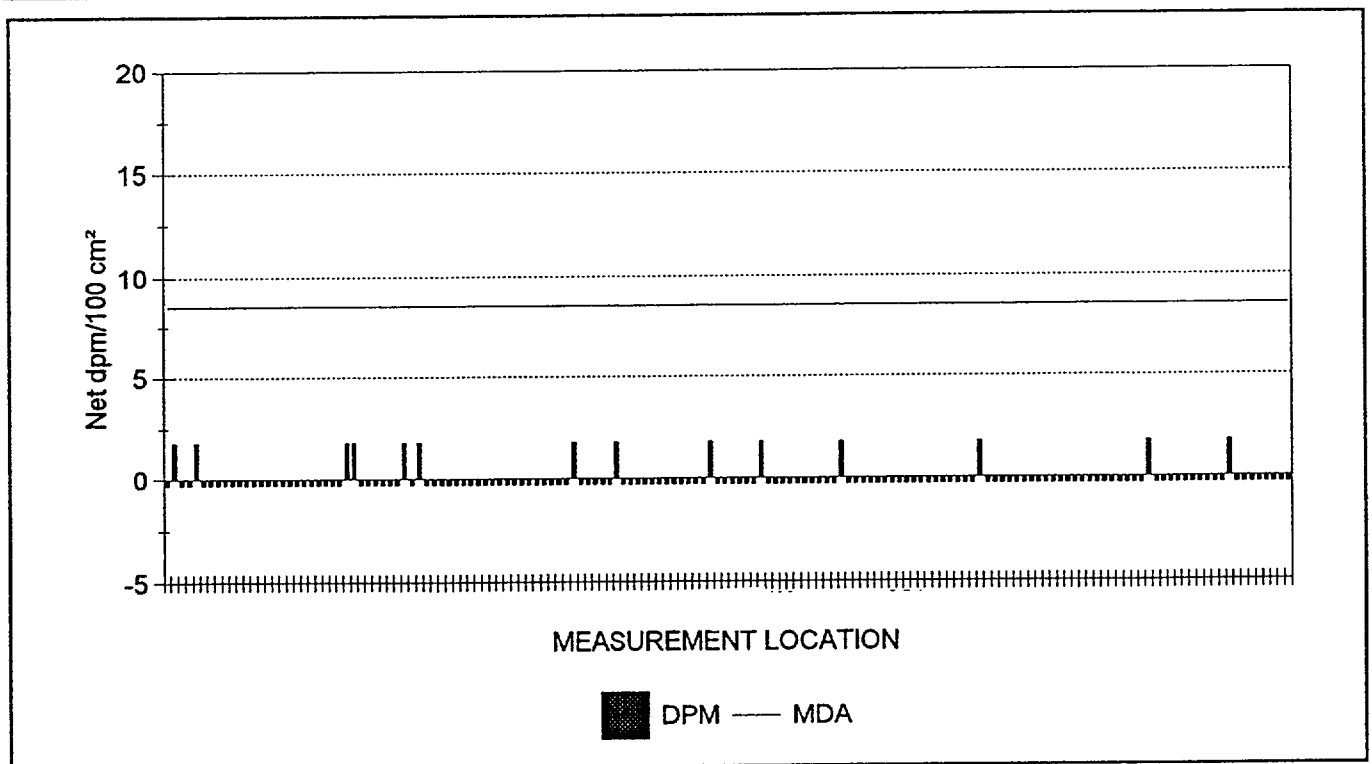
STATISTICAL SUMMARY

TESTS PERFORMED

	Net dpm/100 cm ²
Mean	-0.1
Maximum	1.8
Minimum	-0.3
Standard Deviation	0.6
MDA	8.5

MDA <10 net dpm/100 cm ²	YES
Results above 20 net dpm/100 cm ²	0
Number of results above MDA	0

Samples Reported	155
Samples Prescribed	155



155 RESULTS ARE GRAPHED



Maine Yankee Atomic Power Plant Site Characterization

03/30/98

Removable Contamination

Survey Package : A0400 SURFACES & STRUCTURES

Fuel Building - Elevation 21 ft.

Includes: Lower Level with Bermed Area, Upper Level with Fuel Pool Area,
Pipe Tunnel and Hazardous Material Storage Room

RESULTS LISTING - SORTED BY SURFACE CODE

XLS FILE	UNIT	SURFACE	REASON	MSRMNT LOCATION	ALPHA	BETA
SME1E011.XLS	05	WS1	C01	2	-0.3	2.3
SME1E011.XLS	05	WS1	C01	1	-0.3	2.3
SME1E011.XLS	05	FL1	C01	2	-0.3	8.3
SME1E011.XLS	05	FL1	C01	1	-0.3	20.3
SME1E011.XLS	05	EQ1	C01	2	-0.3	-3.7
SME1E011.XLS	05	EQ1	C01	1	-0.3	14.3
SME1E011.XLS	05	CL1	C01	1	-0.3	8.3
SME1E011.XLS	04	WS1	C01	9	-0.3	38.3
SME1E011.XLS	04	WS1	C01	8	1.8	26.3
SME1E011.XLS	04	WS1	C01	7	-0.3	8.3
SME1E011.XLS	04	WS1	C01	6	-0.3	8.3
SME1E011.XLS	04	WS1	C01	5	-0.3	8.3
SME1E011.XLS	04	WS1	C01	4	-0.3	14.3
SME1E011.XLS	04	WS1	C01	3	-0.3	14.3
SME1E011.XLS	04	WS1	C01	2	-0.3	2.3
SME1E011.XLS	04	WS1	C01	18	-0.3	14.3
SME1E011.XLS	04	WS1	C01	17	-0.3	14.3
SME1E011.XLS	04	WS1	C01	16	-0.3	14.3
SME1E011.XLS	04	WS1	C01	15	-0.3	20.3
SME1E011.XLS	04	WS1	C01	14	1.8	2.3
SME1E011.XLS	04	WS1	C01	13	-0.3	-3.7
SME1E011.XLS	04	WS1	C01	12	-0.3	8.3
SME1E011.XLS	04	WS1	C01	11	-0.3	14.3
SME1E011.XLS	04	WS1	C01	10	-0.3	62.3
SME1E011.XLS	04	WS1	C01	1	-0.3	-3.7
SME1E011.XLS	04	FL1	C01	9	-0.3	-3.7
SME1E011.XLS	04	FL1	C01	8	-0.3	2.3
SME1E011.XLS	04	FL1	C01	7	-0.3	8.3
SME1E011.XLS	04	FL1	C01	6	-0.3	2.3
SME1E011.XLS	04	FL1	C01	5	-0.3	8.3
SME1E011.XLS	04	FL1	C01	4	-0.3	8.3
SME1E011.XLS	04	FL1	C01	3	-0.3	8.3
SME1E011.XLS	04	FL1	C01	2	-0.3	2.3
SME1E011.XLS	04	FL1	C01	14	-0.3	2.3
SME1E011.XLS	04	FL1	C01	13	-0.3	14.3
SME1E011.XLS	04	FL1	C01	12	-0.3	-3.7
SME1E011.XLS	04	FL1	C01	11	-0.3	-3.7
SME1E011.XLS	04	FL1	C01	10	-0.3	14.3
SME1E011.XLS	04	FL1	C01	1	-0.3	26.3
SME1E011.XLS	04	EQ1	C01	4	-0.3	-3.7

NOTES: Activity reported in net dpm/100 cm².

Underlined values exceed the associated MDA.

Bold values exceed 100.00 dpm/100 cm² (beta activity) and/or 20.00 dpm/100 cm² (alpha activity).



Maine Yankee Atomic Power Plant Site Characterization

03/30/98

Removable Contamination

Survey Package : A0400 SURFACES & STRUCTURES

Fuel Building - Elevation 21 ft.

Includes: Lower Level with Bermed Area, Upper Level with Fuel Pool Area,
Pipe Tunnel and Hazardous Material Storage Room

RESULTS LISTING - SORTED BY SURFACE CODE

XLS FILE	UNIT	SURFACE	REASON	MSRMNT LOCATION	ALPHA	BETA
SME1E011.XLS	04	EQ1	C01	3	-0.3	20.3
SME1E011.XLS	04	EQ1	C01	2	-0.3	<u>116.4</u>
SME1E011.XLS	04	EQ1	C01	1	1.8	56.3
SME1E011.XLS	04	CL1	C01	7	-0.3	-3.7
SME1E011.XLS	04	CL1	C01	6	-0.3	8.3
SME1E011.XLS	04	CL1	C01	5	-0.3	14.3
SME1E011.XLS	04	CL1	C01	4	-0.3	2.3
SME1E011.XLS	04	CL1	C01	3	-0.3	-3.7
SME1E011.XLS	04	CL1	C01	2	-0.3	26.3
SME1E011.XLS	04	CL1	C01	1	-0.3	44.3
SME1E011.XLS	02	WS1	C01	9	-0.3	8.3
SME1E011.XLS	02	WS1	C01	8	-0.3	26.3
SME1E011.XLS	02	WS1	C01	7	-0.3	8.3
SME1E011.XLS	02	WS1	C01	6	-0.3	<u>134.4</u>
SME1E011.XLS	02	WS1	C01	5	-0.3	14.3
SME1E011.XLS	02	WS1	C01	4	-0.3	2.3
SME1E011.XLS	02	WS1	C01	3	-0.3	8.3
SME1E011.XLS	02	WS1	C01	2	-0.3	8.3
SME1E011.XLS	02	WS1	C01	11	-0.3	26.3
SME1E011.XLS	02	WS1	C01	10	-0.3	32.3
SME1E011.XLS	02	WS1	C01	1	-0.3	2.3
SME1E011.XLS	02	FL1	C01	9	1.8	8.3
SME1E011.XLS	02	FL1	C01	8	-0.3	14.3
SME1E011.XLS	02	FL1	C01	7	-0.3	14.3
SME1E011.XLS	02	FL1	C01	6	-0.3	20.3
SME1E011.XLS	02	FL1	C01	5	-0.3	2.3
SME1E011.XLS	02	FL1	C01	4	-0.3	14.3
SME1E011.XLS	02	FL1	C01	3	-0.3	8.3
SME1E011.XLS	02	FL1	C01	2	-0.3	32.3
SME1E011.XLS	02	FL1	C01	14	-0.3	<u>494.6</u>
SME1E011.XLS	02	FL1	C01	13	-0.3	<u>224.4</u>
SME1E011.XLS	02	FL1	C01	12	-0.3	50.3
SME1E011.XLS	02	FL1	C01	11	1.8	50.3
SME1E011.XLS	02	FL1	C01	10	-0.3	<u>398.6</u>
SME1E011.XLS	02	FL1	C01	1	-0.3	8.3
SME1E011.XLS	02	EQ1	C01	8	-0.3	20.3
SME1E011.XLS	02	EQ1	C01	7	-0.3	14.3
SME1E011.XLS	02	EQ1	C01	6	-0.3	14.3
SME1E011.XLS	02	EQ1	C01	5	-0.3	50.3
SME1E011.XLS	02	EQ1	C01	4	1.8	80.4

NOTES: Activity reported in net dpm/100 cm².

Underlined values exceed the associated MDA.

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Maine Yankee Atomic Power Plant Site Characterization

03/30/98

Removable Contamination

Survey Package : A0400 SURFACES & STRUCTURES

Fuel Building - Elevation 21 ft.

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RESULTS LISTING - SORTED BY SURFACE CODE

XLS FILE	UNIT	SURFACE	REASON	MSRMNT LOCATION	ALPHA	BETA
SME1E011.XLS	02	EQ1	C01	3	-0.3	<u>878.9</u>
SME1E011.XLS	02	EQ1	C01	2	-0.3	14.3
SME1E011.XLS	02	EQ1	C01	1	-0.3	<u>224.4</u>
SME1E011.XLS	02	CL1	C01	9	-0.3	2.3
SME1E011.XLS	02	CL1	C01	8	-0.3	2.3
SME1E011.XLS	02	CL1	C01	7	-0.3	50.3
SME1E011.XLS	02	CL1	C01	6	-0.3	2.3
SME1E011.XLS	02	CL1	C01	5	-0.3	38.3
SME1E011.XLS	02	CL1	C01	4	-0.3	-3.7
SME1E011.XLS	02	CL1	C01	3	-0.3	2.3
SME1E011.XLS	02	CL1	C01	2	-0.3	<u>206.4</u>
SME1E011.XLS	02	CL1	C01	10	-0.3	2.3
SME1E011.XLS	02	CL1	C01	1	1.8	2.3
SME1E011.XLS	01	WS1	C01	9	-0.3	-3.7
SME1E011.XLS	01	WS1	C01	8	-0.3	2.3
SME1E011.XLS	01	WS1	C01	7	-0.3	20.3
SME1E011.XLS	01	WS1	C01	6	-0.3	2.3
SME1E011.XLS	01	WS1	C01	5	-0.3	14.3
SME1E011.XLS	01	WS1	C01	4	1.8	2.3
SME1E011.XLS	01	WS1	C01	3	-0.3	-3.7
SME1E011.XLS	01	WS1	C01	20	-0.3	-3.7
SME1E011.XLS	01	WS1	C01	2	-0.3	8.3
SME1E011.XLS	01	WS1	C01	19	-0.3	8.3
SME1E011.XLS	01	WS1	C01	18	-0.3	14.3
SME1E011.XLS	01	WS1	C01	17	-0.3	2.3
SME1E011.XLS	01	WS1	C01	16	-0.3	-3.7
SME1E011.XLS	01	WS1	C01	15	-0.3	14.3
SME1E011.XLS	01	WS1	C01	14	-0.3	-3.7
SME1E011.XLS	01	WS1	C01	13	-0.3	2.3
SME1E011.XLS	01	WS1	C01	12	-0.3	20.3
SME1E011.XLS	01	WS1	C01	11	-0.3	14.3
SME1E011.XLS	01	WS1	C01	10	-0.3	2.3
SME1E011.XLS	01	WS1	C01	1	-0.3	2.3
SME1E011.XLS	01	SW1	C01	2	-0.3	8.3
SME1E011.XLS	01	SW1	C01	1	-0.3	14.3
SME1E011.XLS	01	FL1	C01	9	-0.3	-3.7
SME1E011.XLS	01	FL1	C01	8	-0.3	2.3
SME1E011.XLS	01	FL1	C01	7	-0.3	2.3
SME1E011.XLS	01	FL1	C01	6	-0.3	14.3
SME1E011.XLS	01	FL1	C01	5	1.8	8.3

NOTES: Activity reported in net dpm/100 cm².

Underlined values exceed the associated MDA.

Bold values exceed 100.00 dpm/100 cm² (beta activity) and/or 20.00 dpm/100 cm² (alpha activity).



Maine Yankee Atomic Power Plant Site Characterization

03/30/98

Removable Contamination

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RESULTS LISTING - SORTED BY SURFACE CODE

XLS FILE	UNIT	SURFACE	REASON	MSRMNT LOCATION	ALPHA	BETA
SME1E011.XLS	01	FL1	C01	4	-0.3	20.3
SME1E011.XLS	01	FL1	C01	3	1.8	8.3
SME1E011.XLS	01	FL1	C01	22	-0.3	<u>164.4</u>
SME1E011.XLS	01	FL1	C01	21	-0.3	<u>134.4</u>
SME1E011.XLS	01	FL1	C01	20	-0.3	<u>404.6</u>
SME1E011.XLS	01	FL1	C01	2	-0.3	38.3
SME1E011.XLS	01	FL1	C01	19	-0.3	32.3
SME1E011.XLS	01	FL1	C01	18	-0.3	2.3
SME1E011.XLS	01	FL1	C01	17	1.8	14.3
SME1E011.XLS	01	FL1	C01	16	1.8	2.3
SME1E011.XLS	01	FL1	C01	15	-0.3	8.3
SME1E011.XLS	01	FL1	C01	14	-0.3	8.3
SME1E011.XLS	01	FL1	C01	13	-0.3	14.3
SME1E011.XLS	01	FL1	C01	12	-0.3	2.3
SME1E011.XLS	01	FL1	C01	11	-0.3	20.3
SME1E011.XLS	01	FL1	C01	10	-0.3	14.3
SME1E011.XLS	01	FL1	C01	1	-0.3	20.3
SME1E011.XLS	01	FD1	C01	3	-0.3	<u>506.6</u>
SME1E011.XLS	01	FD1	C01	2	-0.3	<u>308.5</u>
SME1E011.XLS	01	FD1	C01	1	-0.3	56.3
SME1E011.XLS	01	EQ1	C01	9	-0.3	8.3
SME1E011.XLS	01	EQ1	C01	8	-0.3	2.3
SME1E011.XLS	01	EQ1	C01	7	-0.3	2.3
SME1E011.XLS	01	EQ1	C01	6	-0.3	8.3
SME1E011.XLS	01	EQ1	C01	5	-0.3	8.3
SME1E011.XLS	01	EQ1	C01	4	-0.3	14.3
SME1E011.XLS	01	EQ1	C01	3	-0.3	8.3
SME1E011.XLS	01	EQ1	C01	2	-0.3	26.3
SME1E011.XLS	01	EQ1	C01	10	-0.3	8.3
SME1E011.XLS	01	EQ1	C01	1	-0.3	2.3
SME1E011.XLS	01	CL1	C01	5	1.8	26.3
SME1E011.XLS	01	CL1	C01	4	-0.3	2.3
SME1E011.XLS	01	CL1	C01	3	-0.3	-3.7
SME1E011.XLS	01	CL1	C01	2	1.8	-3.7
SME1E011.XLS	01	CL1	C01	1	-0.3	2.3

NOTES: Activity reported in net dpm/100 cm².

Underlined values exceed the associated MDA.

Bold values exceed 100.00 dpm/100 cm² (beta activity) and/or 20.00 dpm/100 cm² (alpha activity).

155 results are listed.



Maine Yankee Atomic Power Plant Site Characterization

DATAFILE & TENNELEC CALIBRATION SUMMARY

03/30/98

Removable Contamination

Survey Package : A0400 SURFACES & STRUCTURES

Fuel Building - Elevation 21 ft.

Includes: Lower Level with Bermed Area, Upper Level with Fuel Pool Area,
Pipe Tunnel and Hazardous Material Storage Room

SURVEYDATE	XLS FILE	INST ID	S/N	CAL DUE	LAB TECHNICIAN
2/19/98	SME1E011.XLS	1	15632	8/5/98	JWD
CALIBRATION DATE VERIFIED AS ACCEPTABLE					



Maine Yankee Atomic Power Plant Site Characterization

03/30/98

Exposure Rate Measurements

Survey Package A0400 SURFACES & STRUCTURES
 Fuel Building - Elevation 21 ft.
 Includes: Lower Level with Bermed Area, Upper Level with Fuel Pool Area,
 Pipe Tunnel and Hazardous Material Storage Room

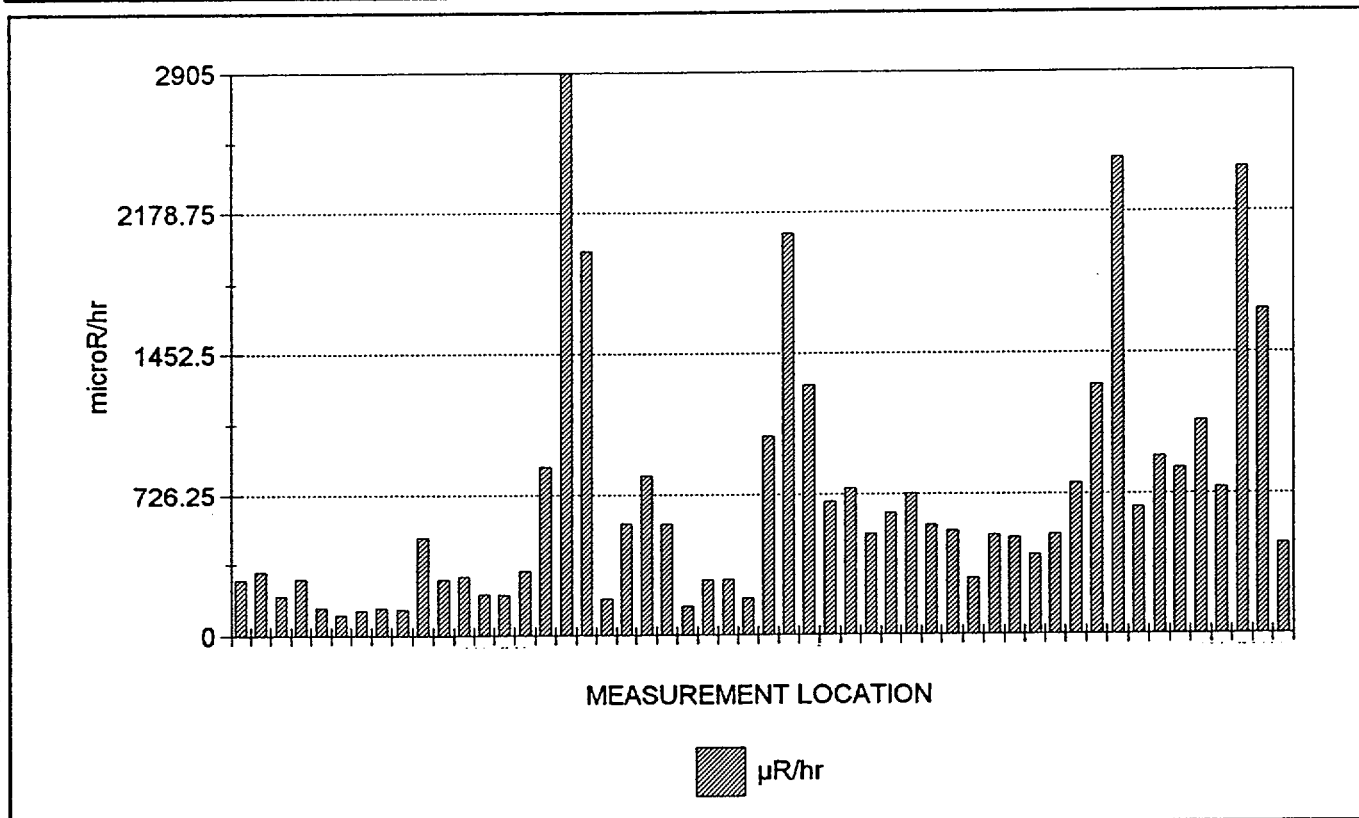
STATISTICAL SUMMARY

TESTS PERFORMED

	$\mu\text{R/hr}$
Mean	706.6
Maximum	2,900.8
Minimum	104.8
Standard Deviation	649.7

Samples reported satisfy samples prescribed YES

Samples Reported	52
Samples Prescribed	52



52 RESULTS ARE GRAPHED



Maine Yankee Atomic Power Plant Site Characterization

03/30/98

Exposure Rate Measurements

Survey Package : A0400 SURFACES & STRUCTURES

Fuel Building - Elevation 21 ft.

Includes: Lower Level with Bermed Area, Upper Level with Fuel Pool Area,
Pipe Tunnel and Hazardous Material Storage Room

RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	RESULT
514 (2)	01	FL1	B0001	C01	60.00	00001	281.8
514 (2)	01	FL1	B0001	C01	60.00	00002	322.1
514 (2)	01	FL1	B0001	C01	60.00	00003	198.6
514 (2)	01	FL1	B0001	C01	60.00	00004	284.0
514 (2)	01	FL1	B0001	C01	60.00	00005	145.1
514 (2)	01	FL1	B0001	C01	60.00	00006	104.8
514 (2)	01	FL1	B0001	C01	60.00	00007	127.9
514 (2)	01	FL1	B0001	C01	60.00	00008	139.3
514 (2)	01	FL1	B0001	C01	60.00	00009	133.5
514 (2)	01	FL1	B0001	C01	60.00	00010	500.3
514 (2)	01	FL1	B0001	C01	60.00	00011	286.0
514 (2)	01	FL1	B0001	C01	60.00	00012	297.5
514 (2)	01	FL1	B0001	C01	60.00	00013	208.7
514 (2)	01	FL1	B0001	C01	60.00	00014	206.9
514 (2)	01	FL1	B0001	C01	60.00	00015	326.9
514 (2)	01	FL1	B0001	C01	60.00	00016	873.8
514 (2)	01	FL1	B0001	C01	60.00	00017	2900.8
514 (2)	01	FL1	B0001	C01	60.00	00018	1981.7
514 (2)	01	FL1	B0001	C01	60.00	00019	186.3
514 (2)	01	FL1	B0001	C01	60.00	00020	574.3
514 (2)	01	FL1	B0001	C01	60.00	00021	827.6
514 (2)	01	FL1	B0001	C01	60.00	00022	570.1
514 (2)	02	FL1	B0001	C01	60.00	00001	149.0
514 (2)	02	FL1	B0001	C01	60.00	00002	278.7
514 (2)	02	FL1	B0001	C01	60.00	00004	281.4
514 (2)	02	FL1	B0001	C01	60.00	00006	187.5
514 (2)	02	FL1	B0001	C01	60.00	00007	1029.6
514 (2)	02	FL1	B0001	C01	60.00	00008	2071.5
514 (2)	02	FL1	B0001	C01	60.00	00009	1285.5
514 (2)	02	FL1	B0001	C01	60.00	00010	686.4
514 (2)	02	FL1	B0001	C01	60.00	00011	760.3
514 (2)	02	FL1	B0001	C01	60.00	00012	515.3
514 (2)	02	FL1	B0001	C01	60.00	00013	624.3
514 (2)	02	FL1	B0001	C01	60.00	00014	730.7
514 (2)	02	FL1	B9999	C01	60.00	00003	558.4
514 (2)	02	FL1	B9999	C01	60.00	00005	530.8
514 (2)	04	FL1	B0001	C01	60.00	00001	283.7
514 (2)	04	FL1	B0001	C01	60.00	00002	507.6
514 (2)	04	FL1	B0001	C01	60.00	00003	495.0
514 (2)	04	FL1	B0001	C01	60.00	00004	405.5

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



Maine Yankee Atomic Power Plant Site Characterization

03/30/98

Exposure Rate Measurements

Survey Package : A0400 SURFACES & STRUCTURES

Fuel Building - Elevation 21 ft.

Includes: Lower Level with Bermed Area, Upper Level with Fuel Pool Area,
Pipe Tunnel and Hazardous Material Storage Room

RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	RESULT
514 (2)	04	FL1	B0001	C01	60.00	00005	509.4
514 (2)	04	FL1	B0001	C01	60.00	00006	784.3
514 (2)	04	FL1	B0001	C01	60.00	00007	1288.1
514 (2)	04	FL1	B0001	C01	60.00	00008	2461.2
514 (2)	04	FL1	B0001	C01	60.00	00009	654.6
514 (2)	04	FL1	B0001	C01	60.00	00010	920.5
514 (2)	04	FL1	B0001	C01	60.00	00011	861.9
514 (2)	04	FL1	B0001	C01	60.00	00012	1104.9
514 (2)	04	FL1	B0001	C01	60.00	00013	758.4
514 (2)	04	FL1	B0001	C01	60.00	00014	2406.3
514 (2)	05	FL1	B0001	C01	60.00	00001	1675.7
514 (2)	05	FL1	B0001	C01	60.00	00002	460.9

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



Maine Yankee Atomic Power Plant Site Characterization

DOWNLOAD FILE & SURVEY INSTRUMENTATION CALIBRATION SUMMARY

03/30/98

Exposure Rate Measurements

Survey Package : A0400 SURFACES & STRUCTURES

Fuel Building - Elevation 21 ft.

Includes: Lower Level with Bermed Area, Upper Level with Fuel Pool Area,
Pipe Tunnel and Hazardous Material Storage Room

SURVEY DATE	FILE #	M2350		DETECTOR			TECHNICIAN
		INST S/N	CAL DUE	MODEL	S/N	CAL DUE	
1/29/98	514 (2)	098639	4/16/98	44-2	129770	5/12/98	JJP1813

CALIBRATION DATES VERIFIED AS ACCEPTABLE



Maine Yankee Atomic Power Plant Site Characterization

CHARACTERIZATION SUMMARY

04/28/98

SURVEY PACKAGE NUMBER A0500

SURFACES & STRUCTURES

PACKAGE DESCRIPTION

Tank (DWST) TK-21 - Elevation 21 ft.

Includes: Tank TK-21 and TK-21 Building

SURVEY AREA DESCRIPTION

Demineralized Water Storage Tank (DWST) (TK-21)

GENERAL HISTORICAL INFORMATION (Operational history, etc.)

The Demineralized Water Storage Tank (DWST) is a 161,000 gallon tank used for the storage of Demineralized water. Demineralized water is from the local city water line, demineralized on site, and used to make up both primary and secondary systems. It is a stainless steel tank on a concrete base. A small, bare concrete building adjacent to the tank contains associated piping and valves.

SUMMARY OF CHARACTERIZATION ACTIVITIES

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

Collected 35 direct measurements for total beta activity at the survey measurement locations indicated in the results listing report. Due to elevated background radioactivity in the survey area, a scan of a two meter area encompassing each survey measurement location was not performed. Each direct measurement for total beta activity was accompanied by a corresponding background measurement at the same location. The background was used in the calculation of net dpm/100cm².

Collected smear samples to analyze for removable alpha and beta activity at the same 35 survey locations as the direct measurements for total beta activity.

Collected one meter exposure rate measurements at 3 survey locations indicated in the results listing report.

Collected 1 composite surface soil/gravel sample from tank base area 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 2 direct measurements for total beta activity above 2000 dpm/100cm². There were 3 direct measurements for total beta activity above the individual measurements' MDA (Maximum MDA was 2,322 dpm/100cm²). The maximum measurement result was 2,659 dpm/100cm².
- o There were no measurements for removable beta activity above MDA (32 dpm/100cm²). The maximum measurement result was 20.3 dpm/100cm².
- o There were no measurements for removable alpha activity above MDA (8.4 dpm/100cm²).
- o The average and maximum exposure rate measurement results were 14 µR/hr and 14.6 µR/hr, respectively.
- o The sample analyzed by gamma spectroscopy indicated plant-derived radionuclide activity above MDA. The analysis of the sample indicated the presence of Cs-137.

CHARACTERIZATION SUMMARY

04/28/98

REFERENCES (Documents, Interviews)



Maine Yankee Atomic Power Plant Site Characterization

SUMMARY OF SURVEY UNIT(S)

03/29/98

OUTPUT BATCH SN = 262

PACKAGE A0500 SURFACES & STRUCTURES
 Tank (DWST) TK-21 - Elevation 21 ft.
 Includes: Tank TK-21 and TK-21 Building

UNIT(S)	SURFACE(S)
01 - Tank TK-21	SS1 (Tank Base) WE1 (Wall Surfaces (exterior))
02 - TK-21 Building	CL1 (Ceiling) EQ1 (Plant Equipment (exterior)) FL1 (Floor Surface) RF1 (*Note* The roof was not completed because there was no access.) WE1 (Wall Surfaces (exterior)) WS1 (Wall Surface (interior))

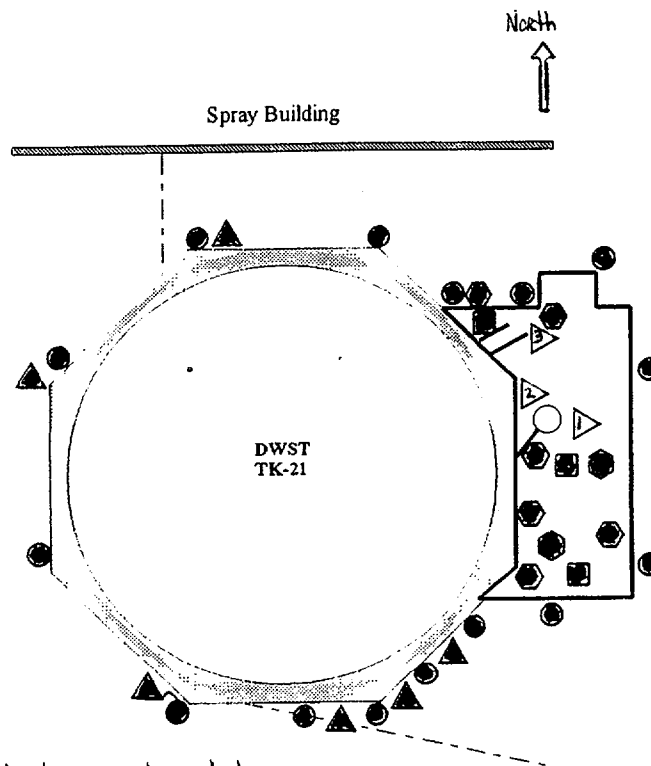
REASON(S) CHARACTERIZATION SURVEY (C01)

MATERIALS	MAT'L CODE	MATERIAL DESCRIPTION	BETA BKGD (dpm/100 cm ²)
	B0002	CONCRETE - BARE (INTERIOR)	665.0
	B0031	METAL - BARE	0.0
	B0039	CONCRETE - BARE (EXTERIOR)	665.0
	B9999	OTHER	0.0

SURVEY PACKAGE A0500

Demineralized Water Storage Tank (DWST)

A0500



- Survey locations on exterior tank-01WE1
- Survey locations on exterior wall-02WE1
- Survey locations on ceilings-02CE1
- Survey locations on interior wall-02WI1
- ▷ Survey locations on equipment-02EQ1
- ▲ Survey locations on structural tank supports-01SS1
- Survey locations on floor-02FL1



Maine Yankee Atomic Power Plant Site Characterization

03/31/98

Direct Measurements For Total Beta Activity

Survey Package A0500 SURFACES & STRUCTURES
 Tank (DWST) TK-21 - Elevation 21 ft.
 Includes: Tank TK-21 and TK-21 Building

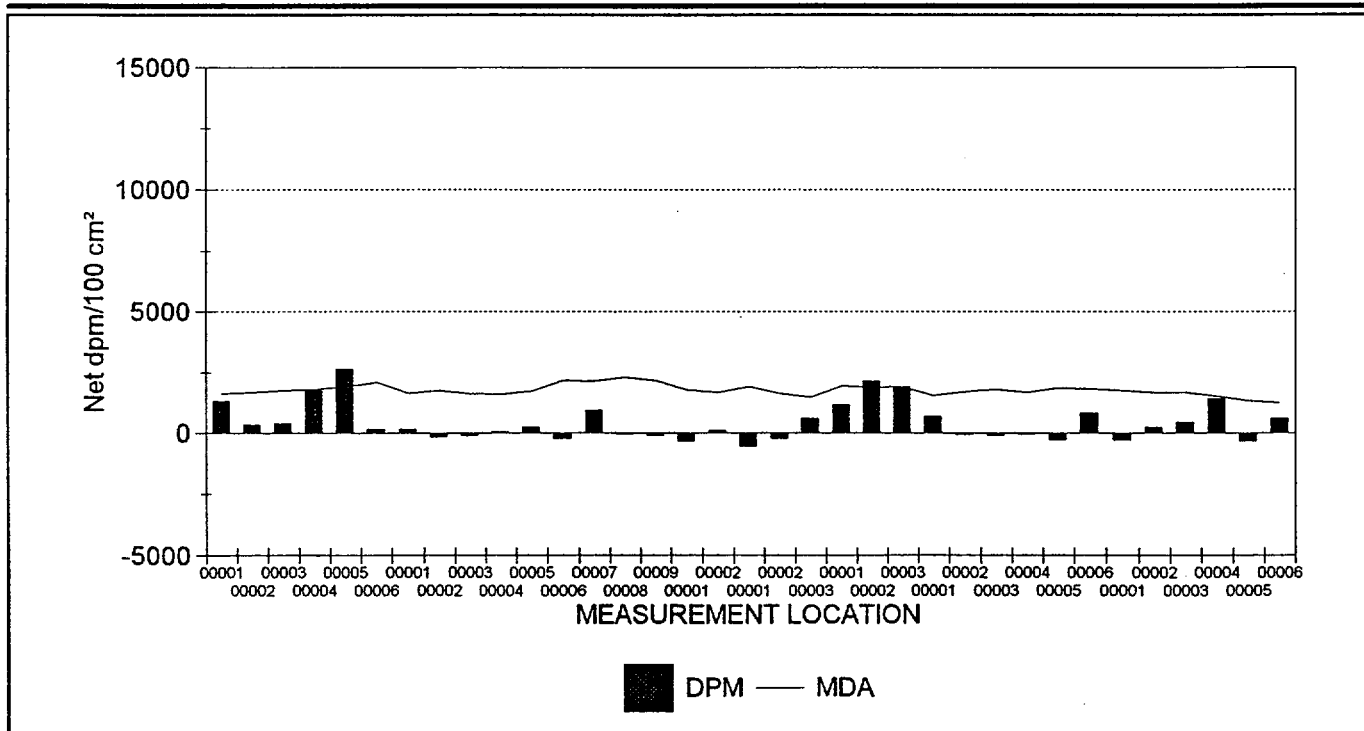
STATISTICAL SUMMARY

TESTS PERFORMED

	Net dpm/100 cm ²
Mean	438.4
Maximum	2,659.4
Minimum	-554.1
Standard Deviation	792.6
MDA	2,322.4

Samples reported satisfy samples prescribed	YES
MDA <2000 net dpm/100 cm ²	NO
Results above 2000 net dpm/100 cm ²	2
Number of results above MDA	3

Samples Reported	35
Samples Prescribed	35



35 RESULTS ARE GRAPHED



Maine Yankee Atomic Power Plant Site Characterization

03/31/98

Direct Measurements For Total Beta Activity

Survey Package : A0500 SURFACES & STRUCTURES
 Tank (DWST) TK-21 - Elevation 21 ft.
 Includes: Tank TK-21 and TK-21 Building

RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	MDA	RESULT
548 (2)	01	SS1	B0039	C01	60	00001	1,653.3	1,329.6
548 (2)	01	SS1	B0039	C01	60	00002	1,696.9	332.3
548 (2)	01	SS1	B0039	C01	60	00003	1,780.6	387.7
548 (2)	01	SS1	B0039	C01	60	00004	1,820.8	1,772.9
548 (2)	01	SS1	B0039	C01	60	00005	1,917.5	2,659.4
548 (2)	01	SS1	B0039	C01	60	00006	2,113.5	166.1
548 (2)	01	WE1	B0039	C01	60	00001	1,675.3	166.1
548 (2)	01	WE1	B0039	C01	60	00002	1,780.6	-166.3
548 (2)	01	WE1	B0039	C01	60	00003	1,631.1	-110.9
548 (2)	01	WE1	B0039	C01	60	00004	1,608.5	55.3
548 (2)	01	WE1	B0039	C01	60	00005	1,739.3	221.5
548 (2)	01	WE1	B0039	C01	60	00006	2,180.0	-221.7
548 (2)	01	WE1	B0039	C01	60	00007	2,163.6	941.8
548 (2)	01	WE1	B0039	C01	60	00008	2,322.4	-55.5
548 (2)	01	WE1	B0039	C01	60	00009	2,180.0	-110.9
548 (2)	02	CL1	B0002	C01	60	00001	1,800.8	-332.6
548 (2)	02	CL1	B0002	C01	60	00002	1,696.9	110.7
548 (2)	02	EQ1	B0031	C01	60	00001	1,917.5	-554.1
548 (2)	02	EQ1	B0031	C01	60	00002	1,631.1	-221.6
548 (2)	02	EQ1	B0031	C01	60	00003	1,489.7	609.5
548 (2)	02	FL1	B9999	C01	60	00001	1,954.7	1,163.5
548 (2)	02	FL1	B9999	C01	60	00002	1,898.6	2,160.9
548 (2)	02	FL1	B9999	C01	60	00003	1,936.2	<u>1,939.2</u>
548 (2)	02	WE1	B0039	C01	60	00001	1,562.1	664.8
548 (2)	02	WE1	B0039	C01	60	00002	1,718.3	-55.5
548 (2)	02	WE1	B0039	C01	60	00003	1,820.8	-110.9
548 (2)	02	WE1	B0039	C01	60	00004	1,696.9	-55.5
548 (2)	02	WE1	B0039	C01	60	00005	1,879.5	-277.2
548 (2)	02	WE1	B0039	C01	60	00006	1,840.6	831.0
548 (2)	02	WS1	B0002	C01	60	00001	1,760.1	-277.2
548 (2)	02	WS1	B0002	C01	60	00002	1,696.9	221.5
548 (2)	02	WS1	B0002	C01	60	00003	1,696.9	443.1
548 (2)	02	WS1	B0002	C01	60	00004	1,538.4	1,440.5
548 (2)	02	WS1	B0031	C01	60	00005	1,331.5	-332.4
548 (2)	02	WS1	B0031	C01	60	00006	1,243.9	609.5

NOTES: Activity reported in net dpm/100 cm². Count times are reported in seconds.
 Underlined values exceed the MDA.
 Bold values exceed 2000 dpm/100 cm².
 35 results are listed.



Maine Yankee Atomic Power Plant Site Characterization

DOWNLOAD FILE & SURVEY INSTRUMENTATION CALIBRATION SUMMARY

03/31/98

Direct Measurements For Total Beta Activity

Survey Package : A0500 SURFACES & STRUCTURES
 Tank (DWST) TK-21 - Elevation 21 ft.
 Includes: Tank TK-21 and TK-21 Building

SURVEY DATE	FILE #	M2350		DETECTOR			PRE	TECHNICIAN
		INST S/N	CAL DUE	MODEL	S/N	CAL DUE	EFF	
2/5/98	548 (2)	126201	4/15/98	44-40	119455	4/29/98	.12	BSM0490

CALIBRATION DATES VERIFIED AS ACCEPTABLE



Maine Yankee Atomic Power Plant Site Characterization

03/29/98

Removable Contamination - Gross Beta Activity

Survey Package A0500 SURFACES & STRUCTURES
 Tank (DWST) TK-21 - Elevation 21 ft.
 Includes: Tank TK-21 and TK-21 Building

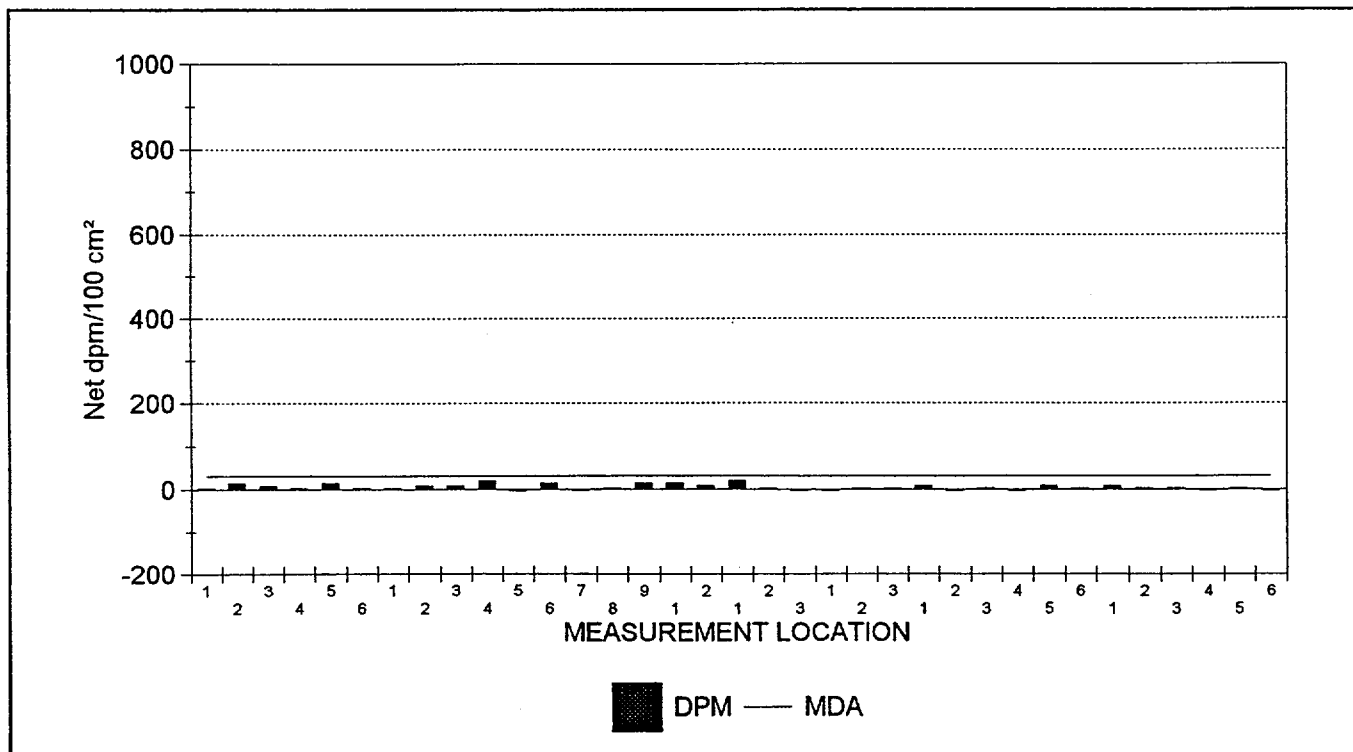
STATISTICAL SUMMARY

TESTS PERFORMED

	Net dpm/100 cm ²
Mean	4.9
Maximum	20.3
Minimum	-3.7
Standard Deviation	7.0
MDA	31.9

MDA <100 net dpm/100 cm ²	YES
Results above 100 net dpm/100 cm ²	0
Number of results above MDA	0

Samples Reported	35
Samples Prescribed	35



35 RESULTS ARE GRAPHED



Maine Yankee Atomic Power Plant Site Characterization

03/29/98

Removable Contamination - Gross Alpha Activity

Survey Package A0500 SURFACES & STRUCTURES
 Tank (DWST) TK-21 - Elevation 21 ft.
 Includes: Tank TK-21 and TK-21 Building

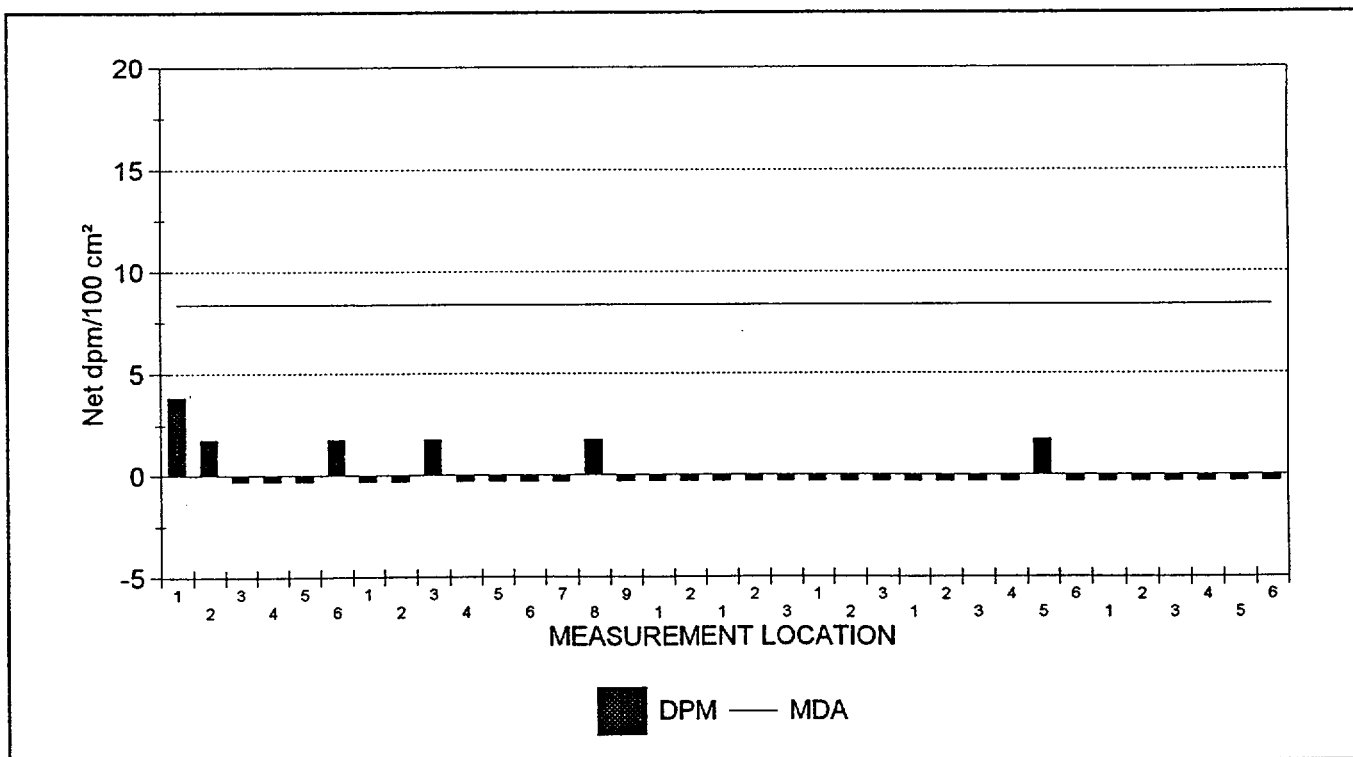
STATISTICAL SUMMARY

TESTS PERFORMED

	Net dpm/100 cm ²
Mean	0.1
Maximum	3.9
Minimum	-0.3
Standard Deviation	1.0
MDA	8.4

MDA < 10 net dpm/100 cm ²	YES
Results above 20 net dpm/100 cm ²	0
Number of results above MDA	0

Samples Reported	35
Samples Prescribed	35



35 RESULTS ARE GRAPHED



Maine Yankee Atomic Power Plant Site Characterization

03/29/98

Removable Contamination

Survey Package : A0500 SURFACES & STRUCTURES
 Tank (DWST) TK-21 - Elevation 21 ft.
 Includes: Tank TK-21 and TK-21 Building

RESULTS LISTING - SORTED BY SURFACE CODE

XLS FILE	UNIT	SURFACE	REASON	MSRMNT LOCATION	ALPHA	BETA
SME1E012.XLS	02	WS1	C01	6	-0.3	-3.7
SME1E012.XLS	02	WS1	C01	5	-0.3	2.3
SME1E012.XLS	02	WS1	C01	4	-0.3	-3.7
SME1E012.XLS	02	WS1	C01	3	-0.3	2.3
SME1E012.XLS	02	WS1	C01	2	-0.3	2.3
SME1E012.XLS	02	WS1	C01	1	-0.3	8.3
SME1E012.XLS	02	WE1	C01	6	-0.3	2.3
SME1E012.XLS	02	WE1	C01	5	1.8	8.3
SME1E012.XLS	02	WE1	C01	4	-0.3	-3.7
SME1E012.XLS	02	WE1	C01	3	-0.3	2.3
SME1E012.XLS	02	WE1	C01	2	-0.3	-3.7
SME1E012.XLS	02	WE1	C01	1	-0.3	8.3
SME1E012.XLS	02	FL1	C01	3	-0.3	2.3
SME1E012.XLS	02	FL1	C01	2	-0.3	2.3
SME1E012.XLS	02	FL1	C01	1	-0.3	-3.7
SME1E012.XLS	02	EQ1	C01	3	-0.3	-3.7
SME1E012.XLS	02	EQ1	C01	2	-0.3	2.3
SME1E012.XLS	02	EQ1	C01	1	-0.3	20.3
SME1E012.XLS	02	CL1	C01	2	-0.3	8.3
SME1E012.XLS	02	CL1	C01	1	-0.3	14.3
SME1E012.XLS	01	WE1	C01	9	-0.3	14.3
SME1E012.XLS	01	WE1	C01	8	1.8	2.3
SME1E012.XLS	01	WE1	C01	7	-0.3	-3.7
SME1E012.XLS	01	WE1	C01	6	-0.3	14.3
SME1E012.XLS	01	WE1	C01	5	-0.3	-3.7
SME1E012.XLS	01	WE1	C01	4	-0.3	20.3
SME1E012.XLS	01	WE1	C01	3	1.8	8.3
SME1E012.XLS	01	WE1	C01	2	-0.3	8.3
SME1E012.XLS	01	WE1	C01	1	-0.3	2.3
SME1E012.XLS	01	SS1	C01	6	1.8	2.3
SME1E012.XLS	01	SS1	C01	5	-0.3	14.3
SME1E012.XLS	01	SS1	C01	4	-0.3	2.3
SME1E012.XLS	01	SS1	C01	3	-0.3	8.3
SME1E012.XLS	01	SS1	C01	2	1.8	14.3
SME1E012.XLS	01	SS1	C01	1	3.9	2.3

NOTES: Activity reported in net dpm/100 cm².
 Underlined values exceed the associated MDA.
 Bold values exceed 100.00 dpm/100 cm² (beta activity) and/or 20.00 dpm/100 cm² (alpha activity).
 35 results are listed.



Maine Yankee Atomic Power Plant Site Characterization

DATAFILE & TENNELEC CALIBRATION SUMMARY

03/29/98

Removable Contamination

Survey Package : A0500 SURFACES & STRUCTURES
 Tank (DWST) TK-21 - Elevation 21 ft.
 Includes: Tank TK-21 and TK-21 Building

SURVEYDATE	XLS FILE	INST ID	S/N	CAL DUE	LAB TECHNICIAN
2/19/98	SME1E012.XLS	1	15632	8/5/98	JWD

CALIBRATION DATE VERIFIED AS ACCEPTABLE



Maine Yankee Atomic Power Plant Site Characterization

03/29/98

Exposure Rate Measurements

Survey Package A0500 SURFACES & STRUCTURES
 Tank (DWST) TK-21 - Elevation 21 ft.
 Includes: Tank TK-21 and TK-21 Building

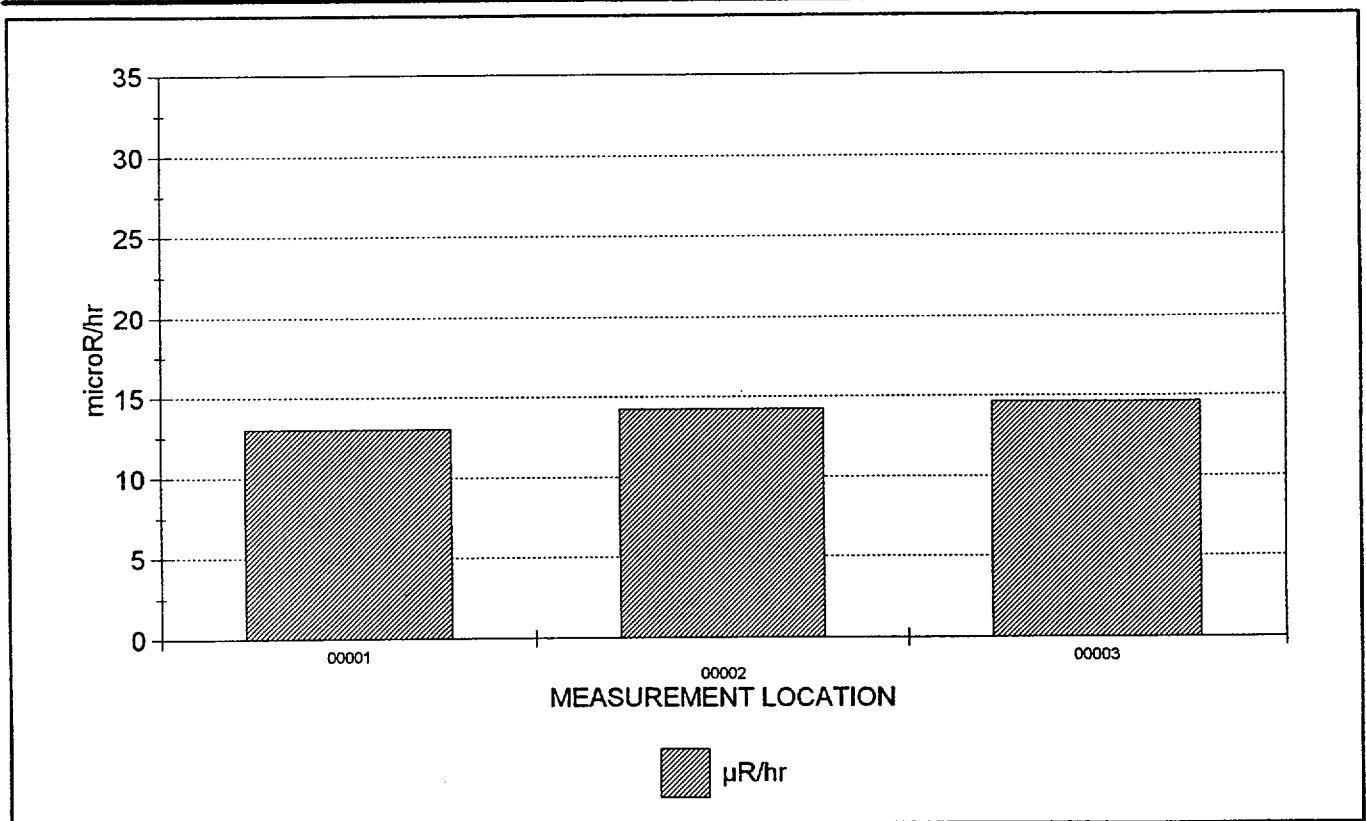
STATISTICAL SUMMARY

TESTS PERFORMED

	$\mu\text{R/hr}$
Mean	14.0
Maximum	14.6
Minimum	13.0
Standard Deviation	0.9

Samples reported satisfy samples prescribed	YES
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Samples Reported	3
Samples Prescribed	3



3 RESULTS ARE GRAPHED



Maine Yankee Atomic Power Plant Site Characterization

03/29/98

Exposure Rate Measurements

Survey Package : A0500 SURFACES & STRUCTURES
 Tank (DWST) TK-21 - Elevation 21 ft.
 Includes: Tank TK-21 and TK-21 Building

RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	RESULT
555 (2)	02	FL1	B9999	C01	60.00	00001	13.0
555 (2)	02	FL1	B9999	C01	60.00	00002	14.2
555 (2)	02	FL1	B9999	C01	60.00	00003	14.6

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



Maine Yankee Atomic Power Plant Site Characterization

DOWNLOAD FILE & SURVEY INSTRUMENTATION CALIBRATION SUMMARY

03/29/98

Exposure Rate Measurements

Survey Package : A0500 SURFACES & STRUCTURES
 Tank (DWST) TK-21 - Elevation 21 ft.
 Includes: Tank TK-21 and TK-21 Building

SURVEY DATE	FILE #	M2350		DETECTOR			TECHNICIAN
		INST S/N	CAL DUE	MODEL	S/N	CAL DUE	
2/6/98	555 (2)	98620	3/20/98	44-2	129304	4/19/98	DRK2986

CALIBRATION DATES VERIFIED AS ACCEPTABLE



Maine Yankee Atomic Power Plant Site Characterization

GAMMA SPECTRAL ANALYSIS RESULTS LISTING

NUMBER OF SAMPLES REPORTED =1

04/28/98

OUTPUT BATCH SN = 209

Survey Package A0500 SURFACES & STRUCTURES
 Tank (DWST) TK-21 - Elevation 21 ft.
 Includes: Tank TK-21 and TK-21 Building

UNIT : 01 SURFACE : SS1 REASON : C01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Strainer / Filters
 SAMPLE LOCATOR: 00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY1081	ENV00286	1,674.00	1200	Co-57	< .06	0.06	0.00
				Co-60	< .07	0.08	0.00
				Cs-134	< .08	0.08	0.00
				Cs-137	.17	0.05	0.04
				K-40	20.00	0.57	1.92
				Mn-54	< .07	0.07	0.00



Maine Yankee Atomic Power Plant Site Characterization

04/02/98

CHARACTERIZATION SUMMARY

SURVEY PACKAGE NUMBER :A0600

SURFACES & STRUCTURES

PACKAGE DESCRIPTION

Primary Auxiliary Building - Elevation 11 ft.

SURVEY AREA DESCRIPTION

Auxiliary Building - 11 ft.

GENERAL HISTORICAL INFORMATION (Operational history, etc.)

The Primary Auxiliary building was constructed in 1968. The Primary Auxiliary Building contains support and back-up systems for reactor operations. The building construction is heavy steel framework with concrete floors and walls. This area contains removable floor plugs to access filters and electrical conduits embedded in the floor. Most cubicles are posted, e.g., High Rad/Contaminated/Rad. The HVAC ductwork located overhead is posted as internally contaminated and floor drains are posted Contaminated.

SUMMARY OF CHARACTERIZATION ACTIVITIES

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

Collected 70 direct measurements for total beta activity at the survey measurement locations indicated in the results listing report. Due to elevated background radioactivity in the survey area, a scan of a two meter area encompassing each survey measurement location was not performed. Each direct measurement for total beta activity was accompanied by a corresponding background measurement at the same location. The background was used in the calculation of net dpm/100cm².

Collected smear samples to analyze for removable alpha and beta activity at the same 70 survey locations as the direct measurements for total beta activity.

Collected one meter exposure rate measurements at 33 survey locations indicated in the results listing report.

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 24 direct measurements for total beta activity above 2000 dpm/100cm². There were 5 direct measurements for total beta activity above the individual measurements' MDA (Maximum MDA was 13,168 dpm/100cm²). The maximum measurement result was 32,328 dpm/100cm².
- o There was 1 measurement for removable beta activity above MDA (32 dpm/100cm²) and no results greater than 100 dpm/100cm². The maximum measurement result was 32.3 dpm/100cm².
- o There were no measurements for removable alpha activity above MDA (8.5 dpm/100cm²).
- o The average and maximum exposure rate measurement results were 1.0 mR/hr and 3.5 mR/hr, respectively.

REFERENCES (Documents, Interviews)



Maine Yankee Atomic Power Plant Site Characterization

SUMMARY OF SURVEY UNIT(S)

03/29/98

OUTPUT BATCH SN = 263

PACKAGE A0600 SURFACES & STRUCTURES
 Primary Auxiliary Building - Elevation 11 ft.

UNIT(S)	SURFACE(S)
01 - Primary Auxiliary Building -Elevation 11	CL1 (Ceiling) EQ1 (Equipment: 3 Pumps and1 Pipe) EQ2 (Equipment) FL1 (Floor) WS1 (Walls)

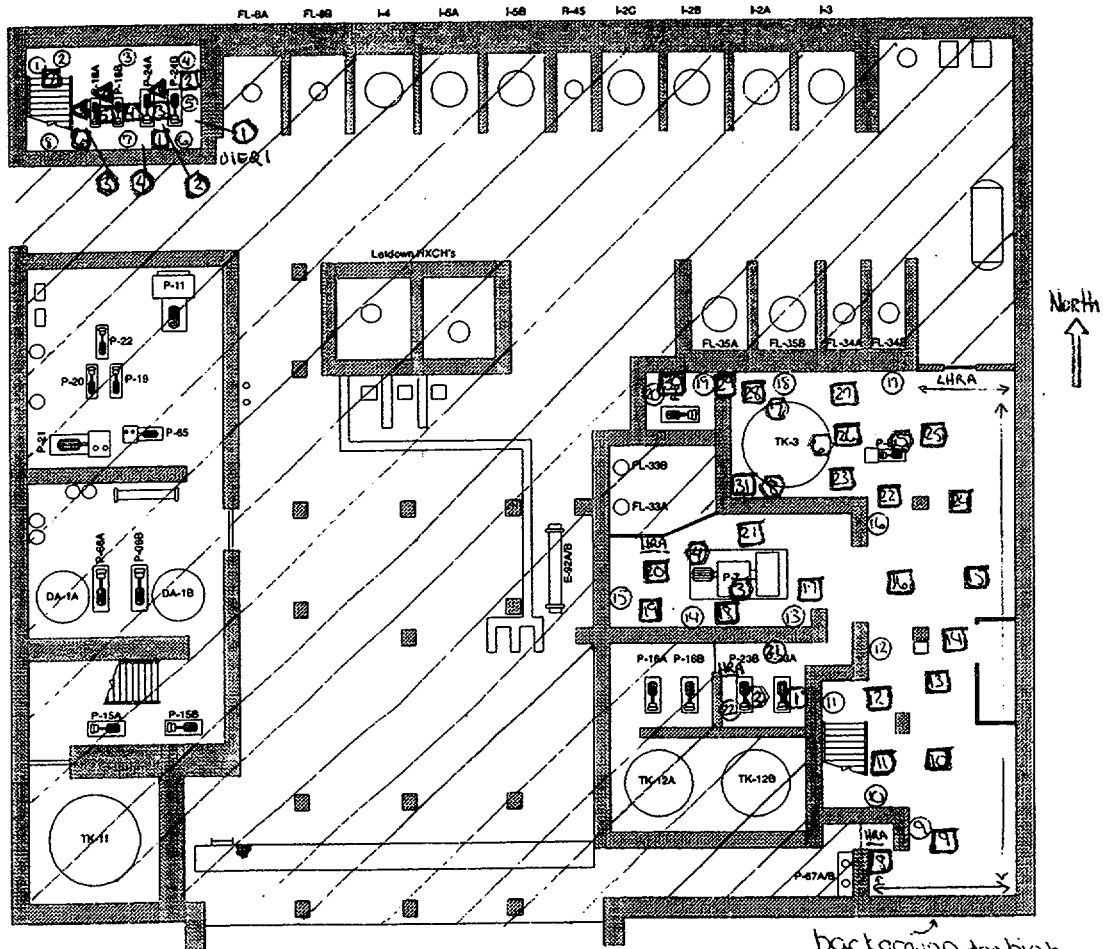
REASON(S) CHARACTERIZATION SURVEY (C01)

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

Maine Yankee Atomic Power Plant Site Characterization

SURVEY PACKAGE A0600

Primary Auxiliary Building 11 ft



ACL -

- ⊕ - Survey locations on walls (↔ = background to high)
- ⊞ - Survey locations on floors - OIEF1
- ⊟ - Survey locations on ceilings - OIEU
- ⊠ - Survey locations on equipment OIEF1, OIEF2

background too high to get readings on the ceiling



Maine Yankee Atomic Power Plant Site Characterization

03/31/98

Direct Measurements For Total Beta Activity

Survey Package A0600 SURFACES & STRUCTURES
 Primary Auxiliary Building - Elevation 11 ft.

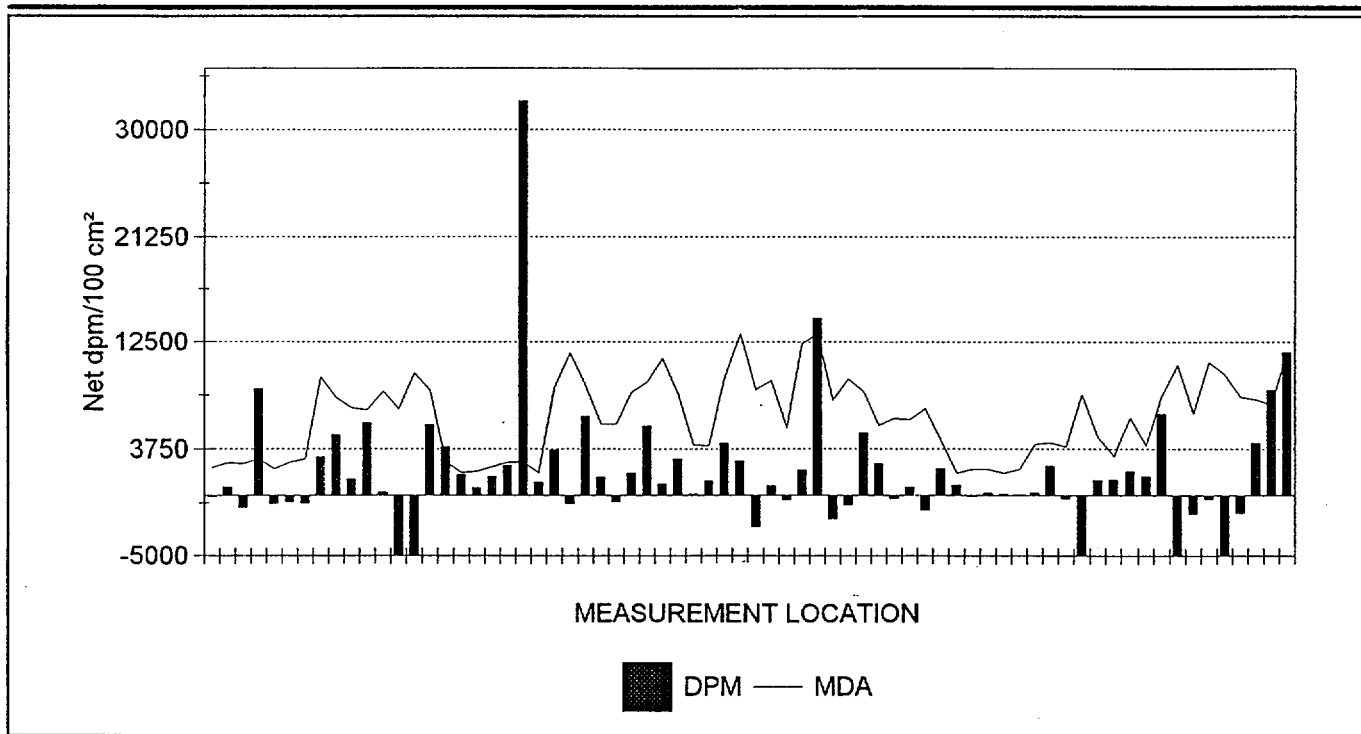
STATISTICAL SUMMARY

TESTS PERFORMED

	Net dpm/100 cm ²
Mean	1,106.0
Maximum	32,328.2
Minimum	-36,959.9
Standard Deviation	7,513.5
MDA	13,168.3

Samples reported satisfy samples prescribed	YES
MDA <2000 net dpm/100 cm ²	NO
Results above 2000 net dpm/100 cm ²	24
Number of results above MDA	5

Samples Reported	70
Samples Prescribed	70



70 RESULTS ARE GRAPHED



Maine Yankee Atomic Power Plant Site Characterization

03/31/98

Direct Measurements For Total Beta Activity

Survey Package : A0600 SURFACES & STRUCTURES
 Primary Auxiliary Building - Elevation 11 ft.

RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	MDA	RESULT
493 (2)	01	CL1	B0001	C01	60	00001	2,307.5	-84.8
493 (2)	01	CL1	B0001	C01	60	00002	2,631.8	701.7
493 (2)	01	CL1	B0001	C01	60	00003	2,604.1	-983.6
493 (2)	01	EQ1	B0031	C01	60	00004	2,979.4	8,650.9
493 (2)	01	EQ1	B0036	C01	60	00001	2,193.6	-674.1
493 (2)	01	EQ1	B0036	C01	60	00002	2,726.4	-505.6
493 (2)	01	EQ1	B0036	C01	60	00003	2,942.9	-617.9
495 (2)	01	EQ2	B0031	C01	60	00006	9,611.9	3,137.0
495 (2)	01	EQ2	B0031	C01	60	00007	7,918.9	4,905.2
495 (2)	01	EQ2	B0031	C01	60	00008	7,079.9	1,368.9
495 (2)	01	EQ2	B0036	C01	60	00001	6,925.6	5,874.8
495 (2)	01	EQ2	B0036	C01	60	00002	8,449.5	285.2
495 (2)	01	EQ2	B0036	C01	60	00003	6,992.9	-6,331.1
495 (2)	01	EQ2	B0036	C01	60	00004	9,944.9	-36,959.9
495 (2)	01	EQ2	B0036	C01	60	00005	8,546.6	5,703.7
493 (2)	01	FL1	B0001	C01	60	00001	2,779.0	3,903.6
493 (2)	01	FL1	B0001	C01	60	00002	1,886.0	1,712.8
493 (2)	01	FL1	B0001	C01	60	00003	1,981.8	645.5
493 (2)	01	FL1	B0001	C01	60	00004	2,323.3	1,544.3
493 (2)	01	FL1	B0001	C01	60	00005	2,686.3	2,443.1
493 (2)	01	FL1	B0001	C01	60	00006	2,686.3	32,328.2
493 (2)	01	FL1	B0001	C01	60	00007	1,886.0	1,094.9
493 (2)	01	FL1	B0001	C01	60	00008	8,749.6	3,622.8
493 (2)	01	FL1	B0001	C01	60	00009	11,560.	-702.7
493 (2)	01	FL1	B0001	C01	60	00010	8,930.5	6,431.5
493 (2)	01	FL1	B0001	C01	60	00011	5,764.1	1,488.1
493 (2)	01	FL1	B0001	C01	60	00012	5,776.2	-534.2
493 (2)	01	FL1	B0001	C01	60	00013	8,363.5	1,825.2
493 (2)	01	FL1	B0001	C01	60	00014	9,213.9	5,645.1
493 (2)	01	FL1	B0001	C01	60	00015	11,160.	926.4
493 (2)	01	FL1	B0001	C01	60	00016	8,288.3	2,948.7
493 (2)	01	FL1	B0001	C01	60	00017	4,081.5	83.7
493 (2)	01	FL1	B0001	C01	60	00018	3,993.6	1,207.2
493 (2)	01	FL1	B0001	C01	60	00019	9,539.7	4,240.7
493 (2)	01	FL1	B0001	C01	60	00020	13,168.	2,836.3
493 (2)	01	FL1	B0001	C01	60	00021	8,569.0	-2,612.6
493 (2)	01	FL1	B0001	C01	60	00022	9,307.6	757.8
493 (2)	01	FL1	B0001	C01	60	00023	5,489.5	-365.7
493 (2)	01	FL1	B0001	C01	60	00024	12,322.	2,106.0
493 (2)	01	FL1	B0001	C01	60	00025	13,165.	14,464.5

NOTES: Activity reported in net dpm/100 cm². Count times are reported in seconds.
 Underlined values exceed the MDA.
 Bold values exceed 2000 dpm/100 cm².

Maine Yankee Atomic Power Plant Site Characterization

03/31/98

Direct Measurements For Total Beta Activity

Survey Package : A0600 SURFACES & STRUCTURES
 Primary Auxiliary Building - Elevation 11 ft.

RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	MDA	RESULT
493 (2)	01	FL1	B0001	C01	60	00026	7,709.4	-1,938.5
493 (2)	01	FL1	B0001	C01	60	00027	9,481.3	-758.9
493 (2)	01	FL1	B0001	C01	60	00028	8,425.7	<u>5,027.1</u>
493 (2)	01	FL1	B0001	C01	60	00029	5,684.4	<u>2,611.6</u>
493 (2)	01	FL1	B0001	C01	60	00030	6,242.7	-253.3
493 (2)	01	FL1	B0001	C01	60	00031	6,158.0	701.7
493 (2)	01	FL1	B0001	C01	60	00032	7,052.6	-1,208.3
493 (2)	01	FL1	B0001	C01	60	00033	4,407.0	<u>2,162.2</u>
493 (2)	01	WS1	B0001	C01	60	00001	1,846.1	814.0
493 (2)	01	WS1	B0001	C01	60	00002	2,159.8	-28.6
493 (2)	01	WS1	B0001	C01	60	00003	2,159.8	196.1
493 (2)	01	WS1	B0001	C01	60	00004	1,805.3	83.7
493 (2)	01	WS1	B0001	C01	60	00005	2,125.5	27.6
493 (2)	01	WS1	B0001	C01	60	00006	4,107.5	196.1
493 (2)	01	WS1	B0001	C01	60	00007	4,201.3	<u>2,386.9</u>
493 (2)	01	WS1	B0001	C01	60	00008	3,894.5	-253.3
493 (2)	01	WS1	B0001	C01	60	00009	8,186.9	-7,443.7
493 (2)	01	WS1	B0001	C01	60	00010	4,679.3	1,263.4
493 (2)	01	WS1	B0001	C01	60	00011	3,200.3	1,319.6
493 (2)	01	WS1	B0001	C01	60	00012	6,298.6	1,993.7
493 (2)	01	WS1	B0001	C01	60	00013	4,029.0	1,544.3
493 (2)	01	WS1	B0001	C01	60	00014	8,135.8	<u>6,600.0</u>
493 (2)	01	WS1	B0001	C01	60	00015	10,607.	-22,442.4
493 (2)	01	WS1	B0001	C01	60	00016	6,634.0	-1,489.1
493 (2)	01	WS1	B0001	C01	60	00017	10,817.	-309.5
493 (2)	01	WS1	B0001	C01	60	00018	9,865.2	-8,848.1
493 (2)	01	WS1	B0001	C01	60	00019	7,958.4	-1,433.0
493 (2)	01	WS1	B0001	C01	60	00020	7,740.9	<u>4,240.7</u>
495 (2)	01	WS1	B0001	C01	60	00021	7,344.3	<u>8,533.8</u>
495 (2)	01	WS1	B0001	C01	60	00022	11,697.	<u>11,613.8</u>

NOTES: Activity reported in net dpm/100 cm². Count times are reported in seconds.
 Underlined values exceed the MDA.
 Bold values exceed 2000 dpm/100 cm².
 70 results are listed.



Maine Yankee Atomic Power Plant Site Characterization

DOWNLOAD FILE & SURVEY INSTRUMENTATION CALIBRATION SUMMARY

03/31/98

Direct Measurements For Total Beta Activity

Survey Package : A0600 SURFACES & STRUCTURES
 Primary Auxiliary Building - Elevation 11 ft.

SURVEY DATE	FILE #	M2350		DETECTOR			PRE EFF	TECHNICIAN
		INST S/N	CAL DUE	MODEL	S/N	CAL DUE		
1/27/98	493 (2)	126201	4/15/98	44-40	119455	4/29/98	.11	BSM0490
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
1/28/98	495 (2)	126201	4/15/98	44-40	119455	4/29/98	.11	BSM0490
CALIBRATION DATES VERIFIED AS ACCEPTABLE								



Maine Yankee Atomic Power Plant Site Characterization

03/29/98

Removable Contamination - Gross Beta Activity

Survey Package A0600 SURFACES & STRUCTURES
 Primary Auxiliary Building - Elevation 11 ft.

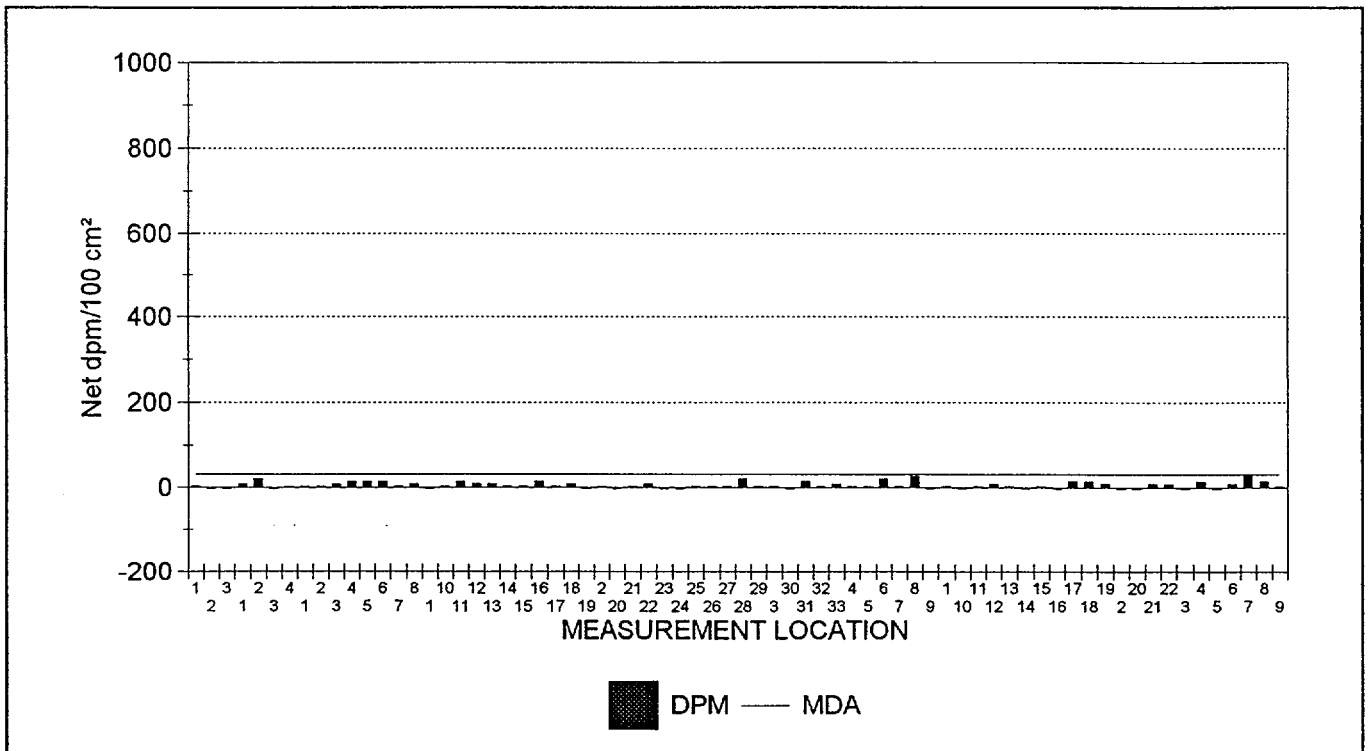
STATISTICAL SUMMARY

	Net dpm/100 cm ²
Mean	5.2
Maximum	32.3
Minimum	-3.7
Standard Deviation	8.0
MDA	31.9

Samples Reported	70
Samples Prescribed	70

TESTS PERFORMED

MDA <100 net dpm/100 cm ²	YES
Results above 100 net dpm/100 cm ²	0
Number of results above MDA	1



70 RESULTS ARE GRAPHED



Maine Yankee Atomic Power Plant Site Characterization

03/29/98

Removable Contamination - Gross Alpha Activity

Survey Package A0600 SURFACES & STRUCTURES
 Primary Auxiliary Building - Elevation 11 ft.

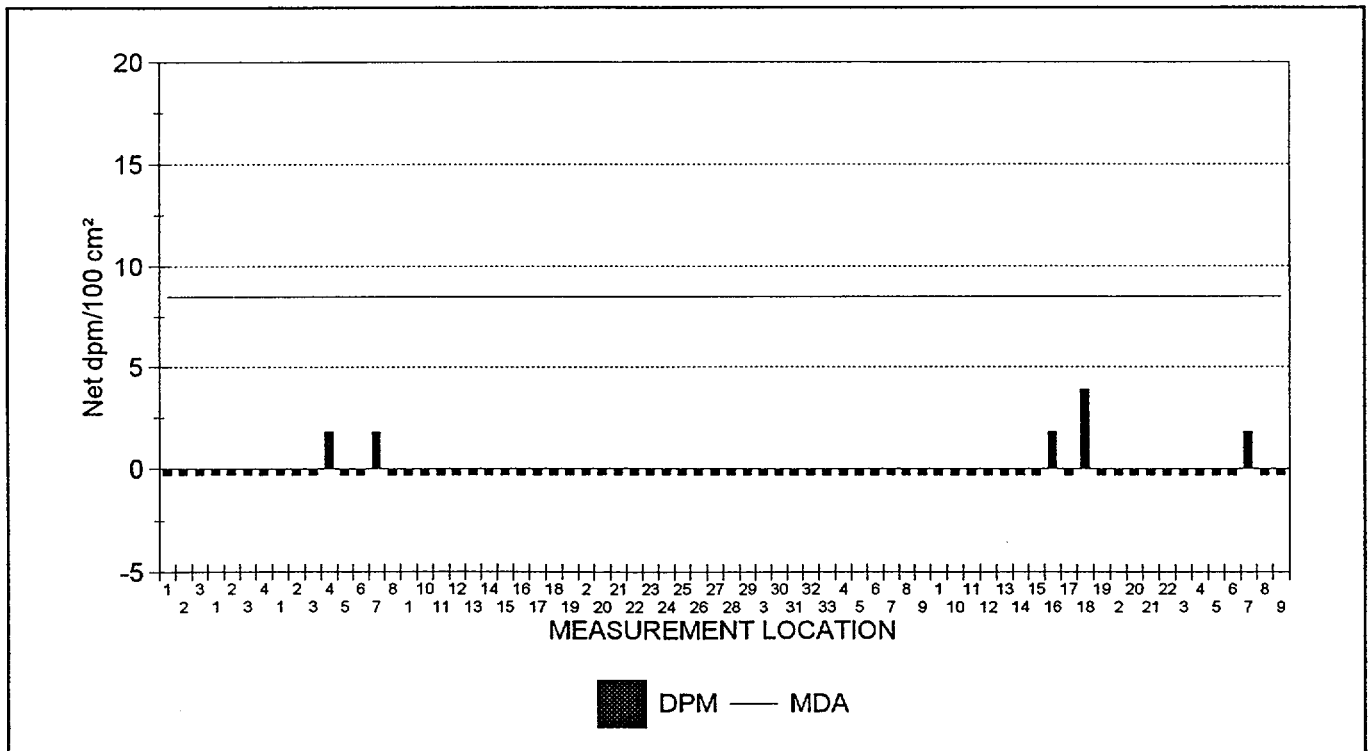
STATISTICAL SUMMARY

TESTS PERFORMED

	Net dpm/100 cm ²
Mean	-0.1
Maximum	3.9
Minimum	-0.3
Standard Deviation	0.7
MDA	8.5

MDA <10 net dpm/100 cm ²	YES
Results above 20 net dpm/100 cm ²	0
Number of results above MDA	0

Samples Reported	70
Samples Prescribed	70



70 RESULTS ARE GRAPHED



Maine Yankee Atomic Power Plant Site Characterization

03/29/98

Removable Contamination

Survey Package : A0600 SURFACES & STRUCTURES
 Primary Auxiliary Building - Elevation 11 ft.

RESULTS LISTING - SORTED BY SURFACE CODE

XLS FILE	UNIT	SURFACE	REASON	MSRMNT LOCATION	ALPHA	BETA
SME1E014.XLS	01	WS1	C01	9	-0.3	2.3
SME1E014.XLS	01	WS1	C01	8	-0.3	14.3
SME1E014.XLS	01	WS1	C01	7	1.8	32.3
SME1E014.XLS	01	WS1	C01	6	-0.3	8.3
SME1E014.XLS	01	WS1	C01	5	-0.3	-3.7
SME1E014.XLS	01	WS1	C01	4	-0.3	14.3
SME1E014.XLS	01	WS1	C01	3	-0.3	-3.7
SME1E014.XLS	01	WS1	C01	22	-0.3	8.3
SME1E014.XLS	01	WS1	C01	21	-0.3	8.3
SME1E014.XLS	01	WS1	C01	20	-0.3	-3.7
SME1E014.XLS	01	WS1	C01	2	-0.3	-3.7
SME1E014.XLS	01	WS1	C01	19	-0.3	8.3
SME1E014.XLS	01	WS1	C01	18	3.9	14.3
SME1E014.XLS	01	WS1	C01	17	-0.3	14.3
SME1E014.XLS	01	WS1	C01	16	1.8	-3.7
SME1E014.XLS	01	WS1	C01	15	-0.3	2.3
SME1E014.XLS	01	WS1	C01	14	-0.3	-3.7
SME1E014.XLS	01	WS1	C01	13	-0.3	2.3
SME1E014.XLS	01	WS1	C01	12	-0.3	8.3
SME1E014.XLS	01	WS1	C01	11	-0.3	2.3
SME1E014.XLS	01	WS1	C01	10	-0.3	-3.7
SME1E014.XLS	01	WS1	C01	1	-0.3	2.3
SME1E014.XLS	01	FLI	C01	9	-0.3	-3.7
SME1E014.XLS	01	FLI	C01	8	-0.3	26.3
SME1E014.XLS	01	FLI	C01	7	-0.3	2.3
SME1E014.XLS	01	FLI	C01	6	-0.3	20.3
SME1E014.XLS	01	FLI	C01	5	-0.3	2.3
SME1E014.XLS	01	FLI	C01	4	-0.3	2.3
SME1E014.XLS	01	FLI	C01	33	-0.3	8.3
SME1E014.XLS	01	FLI	C01	32	-0.3	2.3
SME1E014.XLS	01	FLI	C01	31	-0.3	14.3
SME1E014.XLS	01	FLI	C01	30	-0.3	-3.7
SME1E014.XLS	01	FLI	C01	3	-0.3	2.3
SME1E014.XLS	01	FLI	C01	29	-0.3	2.3
SME1E014.XLS	01	FLI	C01	28	-0.3	20.3
SME1E014.XLS	01	FLI	C01	27	-0.3	2.3
SME1E014.XLS	01	FLI	C01	26	-0.3	2.3
SME1E014.XLS	01	FLI	C01	25	-0.3	2.3
SME1E014.XLS	01	FLI	C01	24	-0.3	-3.7
SME1E014.XLS	01	FLI	C01	23	-0.3	-3.7

NOTES: Activity reported in net dpm/100 cm².

Underlined values exceed the associated MDA.

Bold values exceed 100.00 dpm/100 cm² (beta activity) and/or 20.00 dpm/100 cm² (alpha activity).



Maine Yankee Atomic Power Plant Site Characterization

03/29/98

Removable Contamination

Survey Package : A0600 SURFACES & STRUCTURES
 Primary Auxiliary Building - Elevation 11 ft.

RESULTS LISTING - SORTED BY SURFACE CODE

XLS FILE	UNIT	SURFACE	REASON	MSRMNT LOCATION	ALPHA	BETA
SME1E014.XLS	01	FLI	C01	22	-0.3	8.3
SME1E014.XLS	01	FLI	C01	21	-0.3	2.3
SME1E014.XLS	01	FLI	C01	20	-0.3	-3.7
SME1E014.XLS	01	FLI	C01	2	-0.3	2.3
SME1E014.XLS	01	FLI	C01	19	-0.3	-3.7
SME1E014.XLS	01	FLI	C01	18	-0.3	8.3
SME1E014.XLS	01	FLI	C01	17	-0.3	2.3
SME1E014.XLS	01	FLI	C01	16	-0.3	14.3
SME1E014.XLS	01	FLI	C01	15	-0.3	2.3
SME1E014.XLS	01	FLI	C01	14	-0.3	2.3
SME1E014.XLS	01	FLI	C01	13	-0.3	8.3
SME1E014.XLS	01	FLI	C01	12	-0.3	8.3
SME1E014.XLS	01	FLI	C01	11	-0.3	14.3
SME1E014.XLS	01	FLI	C01	10	-0.3	2.3
SME1E014.XLS	01	FLI	C01	1	-0.3	-3.7
SME1E014.XLS	01	EQ2	C01	8	-0.3	8.3
SME1E014.XLS	01	EQ2	C01	7	1.8	2.3
SME1E014.XLS	01	EQ2	C01	6	-0.3	14.3
SME1E014.XLS	01	EQ2	C01	5	-0.3	14.3
SME1E014.XLS	01	EQ2	C01	4	1.8	14.3
SME1E014.XLS	01	EQ2	C01	3	-0.3	8.3
SME1E014.XLS	01	EQ2	C01	2	-0.3	2.3
SME1E014.XLS	01	EQ2	C01	1	-0.3	2.3
SME1E014.XLS	01	EQ1	C01	4	-0.3	2.3
SME1E014.XLS	01	EQ1	C01	3	-0.3	-3.7
SME1E014.XLS	01	EQ1	C01	2	-0.3	20.3
SME1E014.XLS	01	EQ1	C01	1	-0.3	8.3
SME1E014.XLS	01	CL1	C01	3	-0.3	-3.7
SME1E014.XLS	01	CL1	C01	2	-0.3	-3.7
SME1E014.XLS	01	CL1	C01	1	-0.3	2.3

NOTES: Activity reported in net dpm/100 cm².

Underlined values exceed the associated MDA.

Bold values exceed 100.00 dpm/100 cm² (beta activity) and/or 20.00 dpm/100 cm² (alpha activity).

70 results are listed.



Maine Yankee Atomic Power Plant Site Characterization

DATAFILE & TENNELEC CALIBRATION SUMMARY

03/29/98

Removable Contamination

Survey Package : A0600 SURFACES & STRUCTURES
Primary Auxiliary Building - Elevation 11 ft.

SURVEYDATE	XLS FILE	INST ID	S/N	CAL DUE	LAB TECHNICIAN
2/19/98	SME1E014.XLS	1	15632	8/5/98	JWD

CALIBRATION DATE VERIFIED AS ACCEPTABLE



Maine Yankee Atomic Power Plant Site Characterization

03/30/98

Exposure Rate Measurements

Survey Package A0600 SURFACES & STRUCTURES
 Primary Auxiliary Building - Elevation 11 ft.

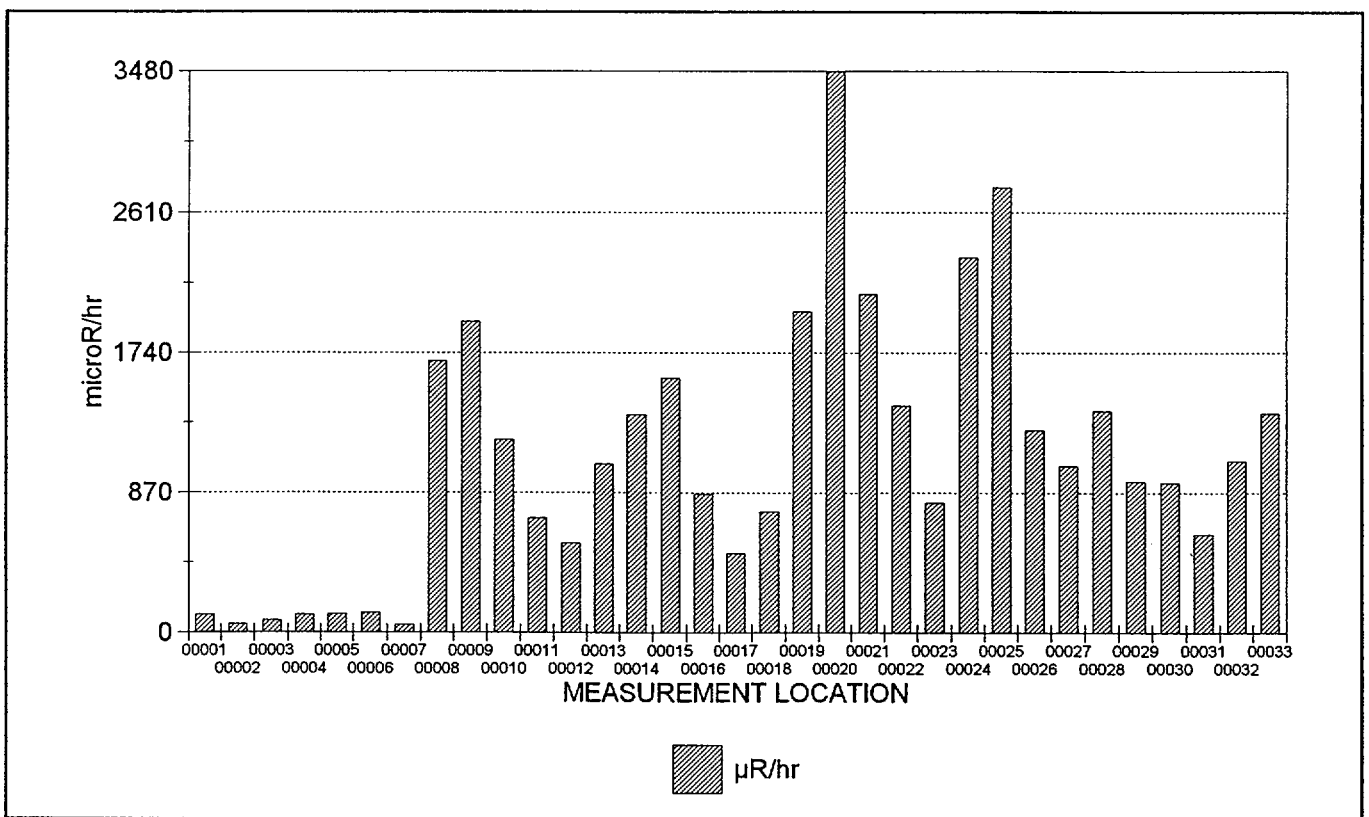
STATISTICAL SUMMARY

TESTS PERFORMED

	$\mu\text{R/hr}$
Mean	1,099.9
Maximum	3,477.4
Minimum	47.4
Standard Deviation	826.7

Samples reported satisfy samples prescribed	YES
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Samples Reported	33
Samples Prescribed	33





Maine Yankee Atomic Power Plant Site Characterization

03/30/98

Exposure Rate Measurements

Survey Package : A0600 SURFACES & STRUCTURES
 Primary Auxiliary Building - Elevation 11 ft.

RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	RESULT
494 (2)	01	FL1	B0001	C01	60.00	00001	109.6
494 (2)	01	FL1	B0001	C01	60.00	00002	50.2
494 (2)	01	FL1	B0001	C01	60.00	00003	76.2
494 (2)	01	FL1	B0001	C01	60.00	00004	110.1
494 (2)	01	FL1	B0001	C01	60.00	00005	114.6
494 (2)	01	FL1	B0001	C01	60.00	00006	122.5
494 (2)	01	FL1	B0001	C01	60.00	00007	47.4
496 (2)	01	FL1	B0001	C01	60.00	00008	1686.0
496 (2)	01	FL1	B0001	C01	60.00	00009	1934.1
494 (2)	01	FL1	B0001	C01	60.00	00010	1200.2
494 (2)	01	FL1	B0001	C01	60.00	00011	709.8
494 (2)	01	FL1	B0001	C01	60.00	00012	556.5
494 (2)	01	FL1	B0001	C01	60.00	00013	1051.9
494 (2)	01	FL1	B0001	C01	60.00	00014	1353.9
496 (2)	01	FL1	B0001	C01	60.00	00015	1575.8
494 (2)	01	FL1	B0001	C01	60.00	00016	864.0
494 (2)	01	FL1	B0001	C01	60.00	00017	495.2
494 (2)	01	FL1	B0001	C01	60.00	00018	751.8
496 (2)	01	FL1	B0001	C01	60.00	00019	1998.9
496 (2)	01	FL1	B0001	C01	60.00	00020	3477.4
496 (2)	01	FL1	B0001	C01	60.00	00021	2104.3
494 (2)	01	FL1	B0001	C01	60.00	00022	1408.2
494 (2)	01	FL1	B0001	C01	60.00	00023	809.3
496 (2)	01	FL1	B0001	C01	60.00	00024	2332.1
496 (2)	01	FL1	B0001	C01	60.00	00025	2761.7
496 (2)	01	FL1	B0001	C01	60.00	00026	1259.7
494 (2)	01	FL1	B0001	C01	60.00	00027	1041.4
494 (2)	01	FL1	B0001	C01	60.00	00028	1377.3
494 (2)	01	FL1	B0001	C01	60.00	00029	940.1
494 (2)	01	FL1	B0001	C01	60.00	00030	932.3
494 (2)	01	FL1	B0001	C01	60.00	00031	612.8
504 (2)	01	FL1	B0001	C01	60.00	00032	1070.9
504 (2)	01	FL1	B0001	C01	60.00	00033	1361.2

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



Maine Yankee Atomic Power Plant Site Characterization

DOWNLOAD FILE & SURVEY INSTRUMENTATION CALIBRATION SUMMARY

03/30/98

Exposure Rate Measurements

Survey Package : A0600 SURFACES & STRUCTURES
 Primary Auxiliary Building - Elevation 11 ft.

SURVEY DATE	FILE #	M2350		DETECTOR			TECHNICIAN
		INST S/N	CAL DUE	MODEL	S/N	CAL DUE	
1/28/98	494 (2)	98620	3/20/98	44-2	129304	4/19/98	CWI5440
CALIBRATION DATES VERIFIED AS ACCEPTABLE							
1/28/98	496 (2)	98620	3/20/98	44-38	091090	7/23/98	DRK2986
CALIBRATION DATES VERIFIED AS ACCEPTABLE							
1/28/98	504 (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

04/02/98

SURVEY PACKAGE NUMBER :A0700

SURFACES & STRUCTURES

PACKAGE DESCRIPTION

Primary Auxiliary Building - Elevation 21 ft.

SURVEY AREA DESCRIPTION

Auxiliary Building - 21 ft.

GENERAL HISTORICAL INFORMATION (Operational history, etc.)

The Primary Auxiliary building was constructed in 1968. The Primary Auxiliary Building contains support and back-up systems for reactor operations. The building construction is heavy steel framework with concrete floors and walls. This area contains removable floor plugs to access filters and electrical conduits embedded in the floor. Most cubicles are posted, e.g., High Rad/Contaminated/Rad. The HVAC ductwork located overhead is posted as internally contaminated and floor drains are posted Contaminated.

SUMMARY OF CHARACTERIZATION ACTIVITIES

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

Collected 86 direct measurements for total beta activity at the survey measurement locations indicated in the results listing report. Due to elevated background radioactivity in the survey area, a scan of a two meter area encompassing each survey measurement location was not performed. Each direct measurement for total beta activity was accompanied by a corresponding background measurement at the same location. The background was used in the calculation of net dpm/100cm².

Collected smear samples to analyze for removable alpha and beta activity at the same 86 survey locations as the direct measurements for total beta activity.

Collected one meter exposure rate measurements at 22 survey locations indicated in the results listing report.

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 8 direct measurements for total beta activity above 2000 dpm/100cm². There were 7 direct measurements for total beta activity above the individual measurements' MDA (Maximum MDA was 15,837 dpm/100cm²). The maximum measurement result was 25,000 dpm/100cm².
- o There were 3 measurements for removable beta activity above MDA (32 dpm/100cm²) and no results greater than 100 dpm/100cm². The maximum measurement result was 52 dpm/100cm².
- o There were no measurements for removable alpha activity above MDA (7.7 dpm/100cm²).
- o The average and maximum exposure rate measurement results were 0.6 mR/hr and 4.1 mR/hr, respectively.

REFERENCES (Documents, Interviews)



Maine Yankee Atomic Power Plant Site Characterization

SUMMARY OF SURVEY UNIT(S)

03/29/98

OUTPUT BATCH SN = 264

PACKAGE A0700 SURFACES & STRUCTURES
 Primary Auxiliary Building - Elevation 21 ft.

UNIT(S)	SURFACE(S)
01 - Primary Auxiliary Building - Elevation 21 feet	CL1 (Ceiling) EQ1 (Equipment) FL1 (Floor) WS1 (Walls)

REASON(S) CHARACTERIZATION SURVEY (C01)

MATERIALS	MAT'L CODE	MATERIAL DESCRIPTION	BETA BKGD (dpm/100 cm ²)
	B0001	CONCRETE - PAINTED (INTERIOR)	478.0
	B0003	CINDER BLOCK - PAINTED (INTERIOR)	478.0
	B0031	METAL - BARE	0.0
	B0036	METAL - PAINTED	0.0

Maine Yankee Atomic Power Plant Site Characterization

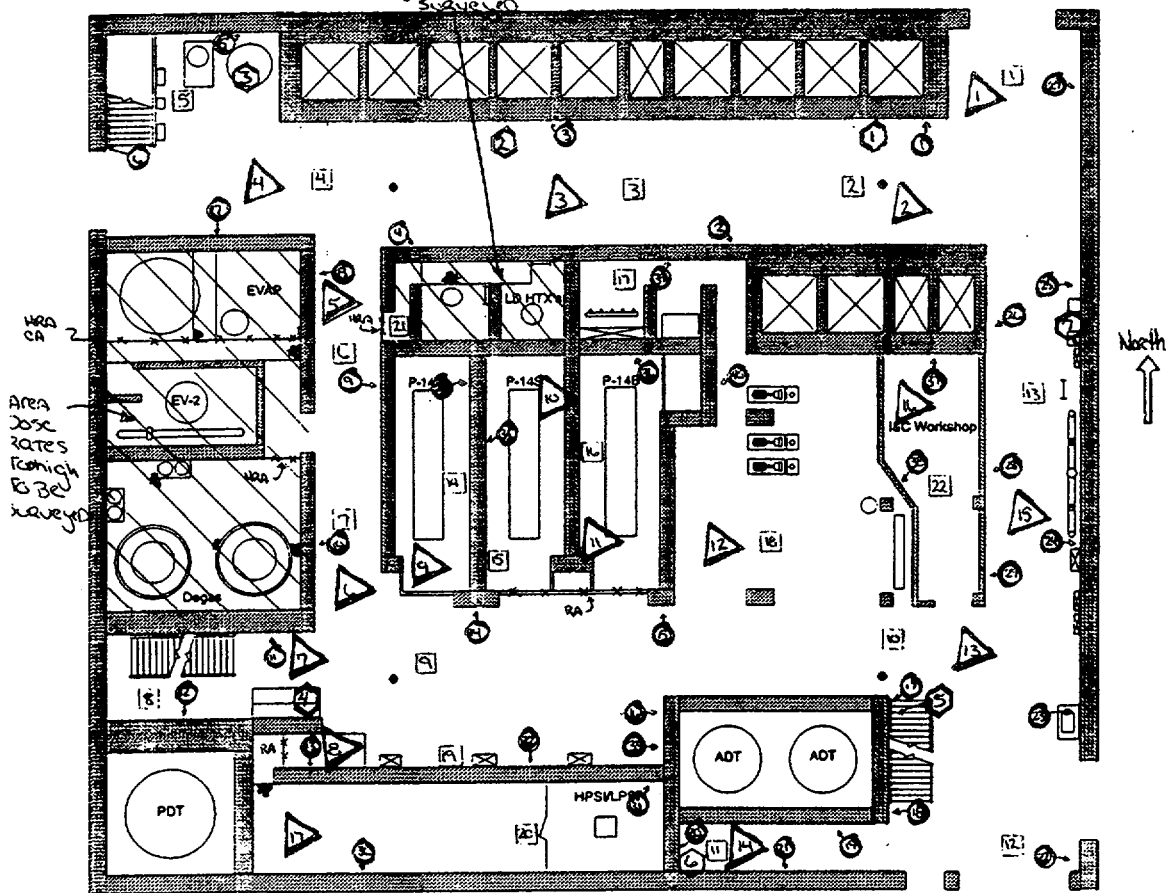
SURVEY PACKAGE A0700

A0700 -

- ⊙ - survey points on walls-01WSI
- ⊞ - survey points on floors-01FL
- ⊞ - survey points on equipment-01EQ
- △ - survey points on ceilings-01CL

Primary Auxiliary Building 21 ft

Dose Rates too high to be surveyed





Maine Yankee Atomic Power Plant Site Characterization

04/01/98

Direct Measurements For Total Beta Activity

Survey Package A0700 SURFACES & STRUCTURES
 Primary Auxiliary Building - Elevation 21 ft.

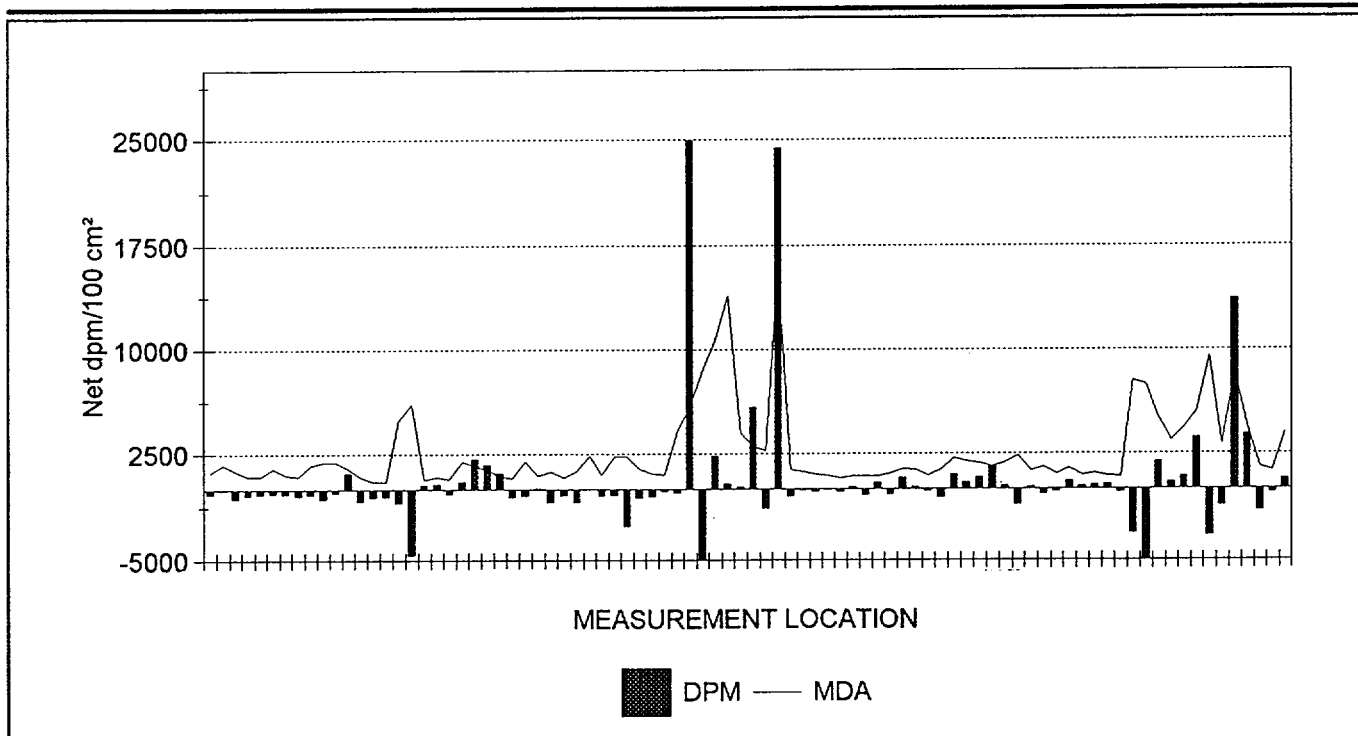
STATISTICAL SUMMARY

TESTS PERFORMED

	Net dpm/100 cm ²
Mean	459.5
Maximum	25,000.2
Minimum	-14,157.6
Standard Deviation	4,655.1
MDA	15,837.1

Samples reported satisfy samples prescribed	YES
MDA <2000 net dpm/100 cm ²	NO
Results above 2000 net dpm/100 cm ²	8
Number of results above MDA	7

Samples Reported	86
Samples Prescribed	86



86 RESULTS ARE GRAPHED



Maine Yankee Atomic Power Plant Site Characterization

04/01/98

Direct Measurements For Total Beta Activity

Survey Package : A0700 SURFACES & STRUCTURES
 Primary Auxiliary Building - Elevation 21 ft.

RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	MDA	RESULT
465 (2)	01	CL1	B0001	C01	10	00001	1,205.6	-327.2
465 (2)	01	CL1	B0001	C01	10	00002	1,744.6	-25.6
465 (2)	01	CL1	B0001	C01	10	00003	1,294.1	-628.8
465 (2)	01	CL1	B0001	C01	10	00004	908.9	-391.8
465 (2)	01	CL1	B0001	C01	10	00005	937.9	-327.2
465 (2)	01	CL1	B0001	C01	10	00006	1,465.2	-241.0
465 (2)	01	CL1	B0001	C01	10	00007	1,019.8	-327.2
465 (2)	01	CL1	B0001	C01	10	00008	937.9	-434.9
465 (2)	01	CL1	B0001	C01	10	00009	1,680.8	-370.3
465 (2)	01	CL1	B0001	C01	10	00010	1,928.2	-671.9
465 (2)	01	CL1	B0001	C01	10	00011	1,933.6	-219.5
465 (2)	01	CL1	B0001	C01	10	00012	1,454.5	1,137.7
465 (2)	01	CL1	B0001	C01	10	00013	872.7	-801.1
465 (2)	01	CL1	B0001	C01	10	00014	569.5	-542.6
465 (2)	01	CL1	B0001	C01	10	00015	539.1	-478.0
464 (2)	01	CL1	B0001	C01	60	00016	4,883.6	-934.0
464 (2)	01	CL1	B0001	C01	60	00017	6,072.6	-4,638.9
465 (2)	01	EQ1	B0036	C01	10	00001	684.3	344.7
465 (2)	01	EQ1	B0036	C01	10	00002	891.0	387.8
465 (2)	01	EQ1	B0036	C01	10	00003	723.3	-323.1
465 (2)	01	EQ1	B0036	C01	10	00004	1,973.3	560.1
465 (2)	01	EQ1	B0036	C01	10	00005	1,659.0	<u>2,132.7</u>
465 (2)	01	EQ1	B0036	C01	10	00006	1,380.6	<u>1,745.0</u>
465 (2)	01	EQ1	B0036	C01	10	00007	920.6	<u>1,163.3</u>
465 (2)	01	FL1	B0001	C01	10	00001	788.1	-542.6
465 (2)	01	FL1	B0001	C01	10	00002	1,976.0	-434.9
465 (2)	01	FL1	B0001	C01	10	00003	987.9	39.0
465 (2)	01	FL1	B0001	C01	10	00004	1,223.0	-887.3
465 (2)	01	FL1	B0001	C01	10	00005	821.7	-391.8
465 (2)	01	FL1	B0001	C01	10	00006	1,294.1	-887.3
465 (2)	01	FL1	B0001	C01	10	00007	2,391.9	17.5
465 (2)	01	FL1	B0001	C01	10	00008	1,014.6	-434.9
465 (2)	01	FL1	B0001	C01	10	00009	2,357.2	-413.4
465 (2)	01	FL1	B0001	C01	10	00010	2,315.3	-2,589.2
465 (2)	01	FL1	B0001	C01	10	00011	1,414.3	-564.2
465 (2)	01	FL1	B0001	C01	10	00012	1,109.6	-499.5
465 (2)	01	FL1	B0001	C01	10	00013	1,030.2	-111.8
464 (2)	01	FL1	B0001	C01	60	00014	4,114.7	-250.0
464 (2)	01	FL1	B0001	C01	60	00015	5,842.3	<u>25,000.2</u>
464 (2)	01	FL1	B0001	C01	60	00016	8,511.4	-9,825.7

NOTES: Activity reported in net dpm/100 cm². Count times are reported in seconds.
 Underlined values exceed the MDA.
 Bold values exceed 2000 dpm/100 cm².



Maine Yankee Atomic Power Plant Site Characterization

04/01/98

Direct Measurements For Total Beta Activity

Survey Package : A0700 SURFACES & STRUCTURES
 Primary Auxiliary Building - Elevation 21 ft.

RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	MDA	RESULT
464 (2)	01	FL1	B0001	C01	60	00017	10,629.	<u>2,371.9</u>
464 (2)	01	FL1	B0001	C01	60	00018	13,870.	<u>377.0</u>
464 (2)	01	FL1	B0001	C01	60	00019	3,979.2	149.0
464 (2)	01	FL1	B0001	C01	60	00021	2,998.4	<u>5,848.8</u>
464 (2)	01	FL1	B0001	C01	60	00022	2,766.4	-1,333.0
464 (2)	01	FL1	B0031	C01	60	00020	15,837.	<u>24,452.2</u>
465 (2)	01	WS1	B0001	C01	10	00001	1,361.4	-478.0
465 (2)	01	WS1	B0001	C01	10	00002	1,223.0	-90.2
465 (2)	01	WS1	B0001	C01	10	00003	1,045.6	-176.4
465 (2)	01	WS1	B0001	C01	10	00004	949.3	-25.6
465 (2)	01	WS1	B0001	C01	10	00005	788.1	-176.4
465 (2)	01	WS1	B0001	C01	10	00006	943.6	146.7
465 (2)	01	WS1	B0001	C01	10	00007	926.4	-391.8
465 (2)	01	WS1	B0001	C01	10	00008	903.0	448.3
465 (2)	01	WS1	B0001	C01	10	00009	1,123.9	-348.7
465 (2)	01	WS1	B0001	C01	10	00010	1,440.0	771.5
465 (2)	01	WS1	B0001	C01	10	00011	1,369.1	168.3
465 (2)	01	WS1	B0001	C01	10	00012	982.5	-133.3
465 (2)	01	WS1	B0001	C01	10	00013	1,388.1	-585.7
465 (2)	01	WS1	B0001	C01	10	00014	2,187.0	1,030.0
465 (2)	01	WS1	B0001	C01	10	00015	1,968.1	491.4
465 (2)	01	WS1	B0001	C01	10	00016	1,831.7	836.1
465 (2)	01	WS1	B0001	C01	10	00017	1,627.3	1,590.1

REMAINING RESULTS PRINTED ON NEXT PAGE

NOTES: Activity reported in net dpm/100 cm². Count times are reported in seconds.
 Underlined values exceed the MDA.
 Bold values exceed 2000 dpm/100 cm².



Maine Yankee Atomic Power Plant Site Characterization

04/01/98

Direct Measurements For Total Beta Activity

Survey Package : A0700 SURFACES & STRUCTURES
 Primary Auxiliary Building - Elevation 21 ft.

RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	MDA	RESULT
465 (2)	01	WS1	B0001	C01	10	00018	1,876.5	254.5
465 (2)	01	WS1	B0001	C01	10	00019	2,387.6	-1,102.7
465 (2)	01	WS1	B0001	C01	10	00020	1,302.2	146.7
465 (2)	01	WS1	B0001	C01	10	00021	1,541.7	-348.7
465 (2)	01	WS1	B0001	C01	10	00022	1,060.7	-176.4
465 (2)	01	WS1	B0001	C01	10	00023	1,486.5	556.1
465 (2)	01	WS1	B0001	C01	10	00024	987.9	211.4
465 (2)	01	WS1	B0001	C01	10	00025	1,123.9	276.0
465 (2)	01	WS1	B0001	C01	10	00026	932.2	319.1
465 (2)	01	WS1	B0001	C01	10	00027	884.9	-219.5
464 (2)	01	WS1	B0001	C01	60	00030	7,748.6	-3,099.9
464 (2)	01	WS1	B0001	C01	60	00031	7,484.7	-14,157.6
464 (2)	01	WS1	B0001	C01	60	00032	5,115.9	1,915.9
464 (2)	01	WS1	B0001	C01	60	00033	3,434.8	491.0
464 (2)	01	WS1	B0001	C01	60	00034	4,313.9	890.0
464 (2)	01	WS1	B0001	C01	60	00035	5,530.9	<u>3,625.9</u>
464 (2)	01	WS1	B0001	C01	60	00036	9,478.0	-3,270.9
464 (2)	01	WS1	B0001	C01	60	00037	3,154.8	-1,162.0
464 (2)	01	WS1	B0001	C01	60	00039	8,409.8	<u>13,657.5</u>
464 (2)	01	WS1	B0001	C01	60	00040	4,512.1	<u>3,853.9</u>
465 (2)	01	WS1	B0003	C01	10	00028	1,551.8	-1,555.1
465 (2)	01	WS1	B0003	C01	10	00029	1,286.0	-262.6
464 (2)	01	WS1	B0003	C01	60	00038	4,043.0	719.0

NOTES: Activity reported in net dpm/100 cm². Count times are reported in seconds.
 Underlined values exceed the MDA.
 Bold values exceed 2000 dpm/100 cm².
 86 results are listed.



Maine Yankee Atomic Power Plant Site Characterization

DOWNLOAD FILE & SURVEY INSTRUMENTATION CALIBRATION SUMMARY

04/01/98

Direct Measurements For Total Beta Activity

Survey Package : A0700 SURFACES & STRUCTURES
 Primary Auxiliary Building - Elevation 21 ft.

SURVEY DATE	FILE #	M2350		DETECTOR			PRE EFF	TECHNICIAN
		INST S/N	CAL DUE	MODEL	S/N	CAL DUE		
1/21/98	464 (2)	098639	4/16/98	44-40	075084	4/27/98	.11	JJP1813
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
1/21/98	465 (2)	129440	6/10/98	43-106	128926	6/5/98	.22	LAC4593
CALIBRATION DATES VERIFIED AS ACCEPTABLE								



Maine Yankee Atomic Power Plant Site Characterization

03/29/98

Removable Contamination - Gross Beta Activity

Survey Package A0700 SURFACES & STRUCTURES
 Primary Auxiliary Building - Elevation 21 ft.

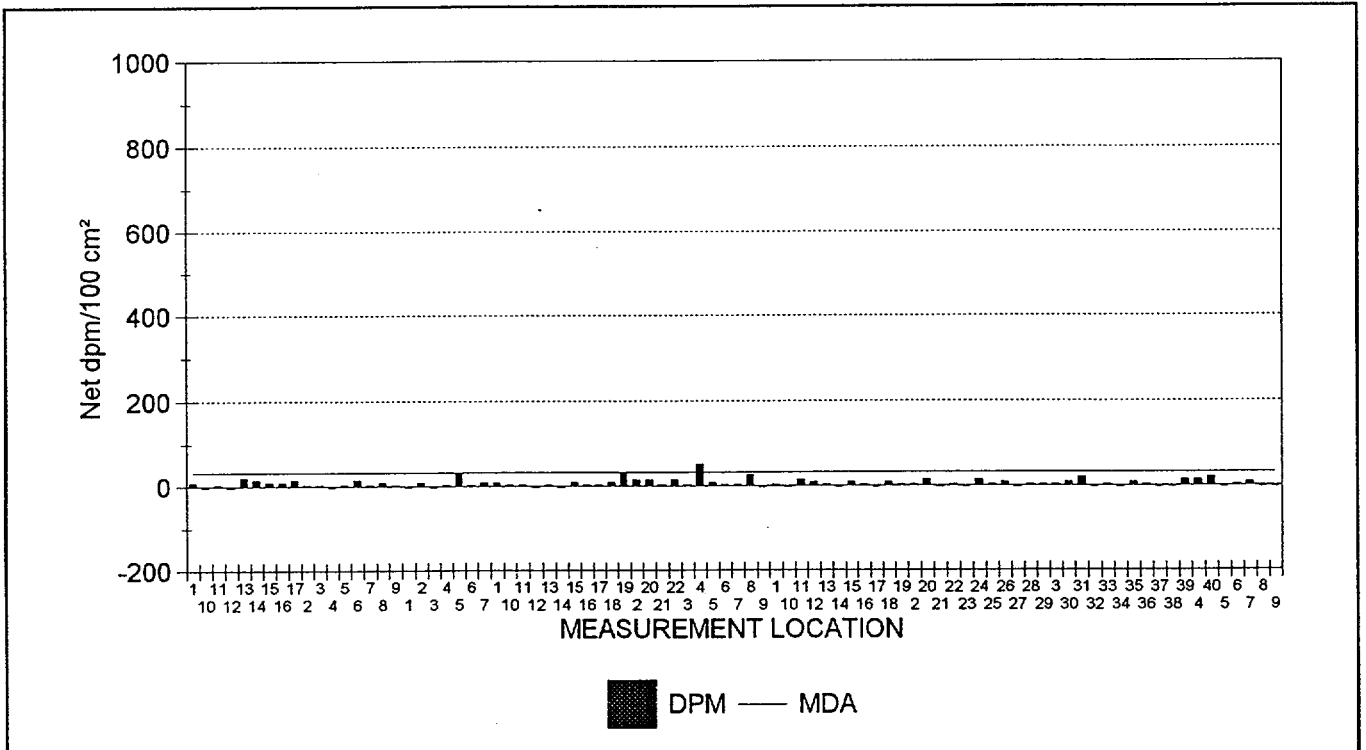
STATISTICAL SUMMARY

TESTS PERFORMED

	Net dpm/100 cm ²
Mean	5.9
Maximum	51.5
Minimum	-3.7
Standard Deviation	9.7
MDA	32.3

MDA <100 net dpm/100 cm ²	YES
Results above 100 net dpm/100 cm ²	0
Number of results above MDA	3

Samples Reported	86
Samples Prescribed	86



86 RESULTS ARE GRAPHED



Maine Yankee Atomic Power Plant Site Characterization

03/29/98

Removable Contamination - Gross Alpha Activity

Survey Package A0700 SURFACES & STRUCTURES
 Primary Auxiliary Building - Elevation 21 ft.

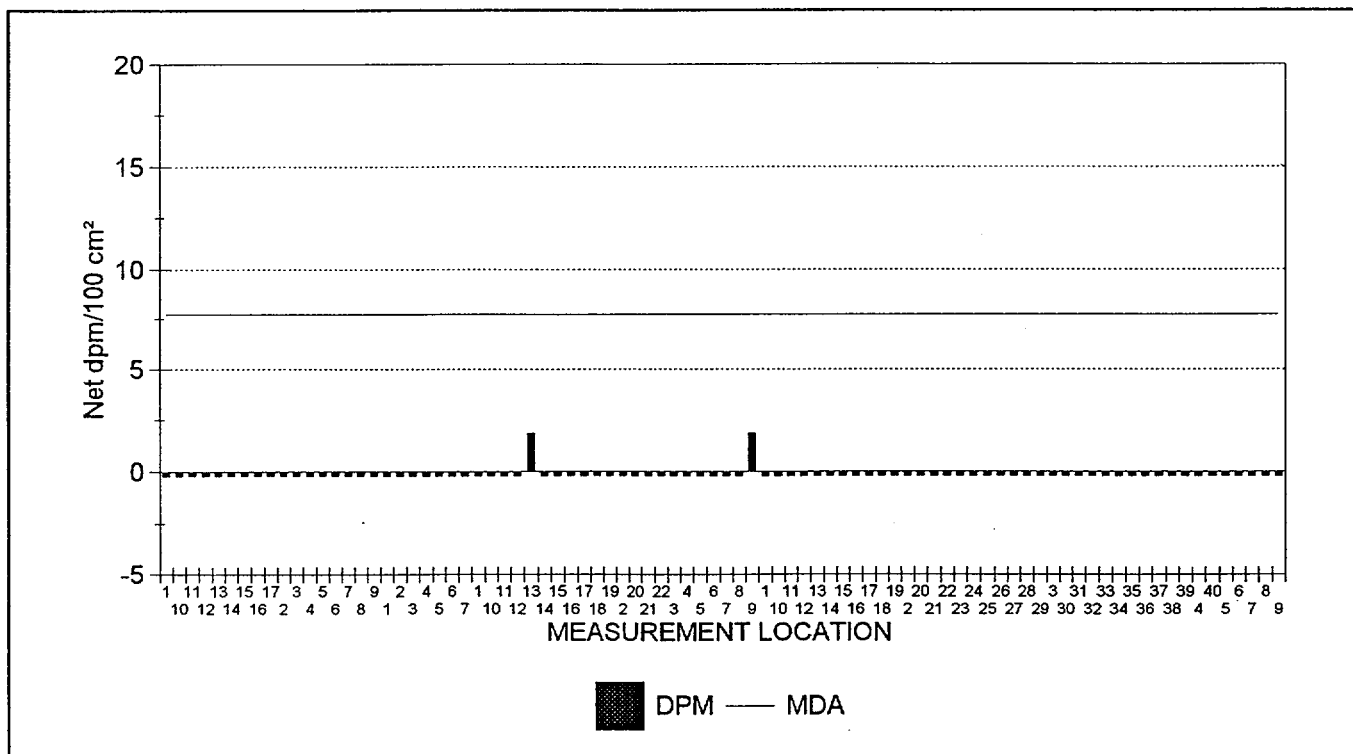
STATISTICAL SUMMARY

TESTS PERFORMED

	Net dpm/100 cm ²
Mean	-0.2
Maximum	1.8
Minimum	-0.2
Standard Deviation	0.3
MDA	7.7

MDA < 10 net dpm/100 cm ²	YES
Results above 20 net dpm/100 cm ²	0
Number of results above MDA	0

Samples Reported	86
Samples Prescribed	86



86 RESULTS ARE GRAPHED



Maine Yankee Atomic Power Plant Site Characterization

03/29/98

Removable Contamination

Survey Package : A0700 SURFACES & STRUCTURES
 Primary Auxiliary Building - Elevation 21 ft.

RESULTS LISTING - SORTED BY SURFACE CODE

XLS FILE	UNIT	SURFACE	REASON	MSRMNT LOCATION	ALPHA	BETA
SME1E041.XLS	01	WS1	C01	9	-0.2	-3.7
SME1E041.XLS	01	WS1	C01	8	-0.2	-3.7
SME1E041.XLS	01	WS1	C01	7	-0.2	8.6
SME1E041.XLS	01	WS1	C01	6	-0.2	2.5
SME1E041.XLS	01	WS1	C01	5	-0.2	-3.7
SME1E041.XLS	01	WS1	C01	40	-0.2	20.8
SME1E041.XLS	01	WS1	C01	4	-0.2	14.7
SME1E041.XLS	01	WS1	C01	39	-0.2	14.7
SME1E041.XLS	01	WS1	C01	38	-0.2	-3.7
SME1E041.XLS	01	WS1	C01	37	-0.2	-3.7
SME1E041.XLS	01	WS1	C01	36	-0.2	2.5
SME1E041.XLS	01	WS1	C01	35	-0.2	8.6
SME1E041.XLS	01	WS1	C01	34	-0.2	-3.7
SME1E041.XLS	01	WS1	C01	33	-0.2	2.5
SME1E041.XLS	01	WS1	C01	32	-0.2	-3.7
SME1E041.XLS	01	WS1	C01	31	-0.2	20.8
SME1E041.XLS	01	WS1	C01	30	-0.2	8.6
SME1E041.XLS	01	WS1	C01	3	-0.2	2.5
SME1E041.XLS	01	WS1	C01	29	-0.2	2.5
SME1E041.XLS	01	WS1	C01	28	-0.2	2.5
SME1E041.XLS	01	WS1	C01	27	-0.2	-3.7
SME1E041.XLS	01	WS1	C01	26	-0.2	8.6
SME1E041.XLS	01	WS1	C01	25	-0.2	2.5
SME1E041.XLS	01	WS1	C01	24	-0.2	14.7
SME1E041.XLS	01	WS1	C01	23	-0.2	-3.7
SME1E041.XLS	01	WS1	C01	22	-0.2	2.5
SME1E041.XLS	01	WS1	C01	21	-0.2	-3.7
SME1E041.XLS	01	WS1	C01	20	-0.2	14.7
SME1E041.XLS	01	WS1	C01	2	-0.2	2.5
SME1E041.XLS	01	WS1	C01	19	-0.2	2.5
SME1E041.XLS	01	WS1	C01	18	-0.2	8.6
SME1E041.XLS	01	WS1	C01	17	-0.2	-3.7
SME1E041.XLS	01	WS1	C01	16	-0.2	2.5
SME1E041.XLS	01	WS1	C01	15	-0.2	8.6
SME1E041.XLS	01	WS1	C01	14	-0.2	-3.7
SME1E041.XLS	01	WS1	C01	13	-0.2	2.5
SME1E041.XLS	01	WS1	C01	12	-0.2	8.6
SME1E041.XLS	01	WS1	C01	11	-0.2	14.7
SME1E041.XLS	01	WS1	C01	10	-0.2	-3.7
SME1E041.XLS	01	WS1	C01	1	-0.2	2.5

NOTES: Activity reported in net dpm/100 cm².

Underlined values exceed the associated MDA.

Bold values exceed 100.00 dpm/100 cm² (beta activity) and/or 20.00 dpm/100 cm² (alpha activity).



Maine Yankee Atomic Power Plant Site Characterization

03/29/98

Removable Contamination

Survey Package : A0700 SURFACES & STRUCTURES
 Primary Auxiliary Building - Elevation 21 ft.

RESULTS LISTING - SORTED BY SURFACE CODE

XLS FILE	UNIT	SURFACE	REASON	MSRMNT LOCATION	ALPHA	BETA
SME1E041.XLS	01	FL1	C01	9	1.8	-3.7
SME1E041.XLS	01	FL1	C01	8	-0.2	27.0
SME1E041.XLS	01	FL1	C01	7	-0.2	2.5
SME1E041.XLS	01	FL1	C01	6	-0.2	2.5
SME1E041.XLS	01	FL1	C01	5	-0.2	8.6
SME1E041.XLS	01	FL1	C01	4	-0.2	51.5
SME1E041.XLS	01	FL1	C01	3	-0.2	2.5
SME1E041.XLS	01	FL1	C01	22	-0.2	14.7
SME1E041.XLS	01	FL1	C01	21	-0.2	2.5
SME1E041.XLS	01	FL1	C01	20	-0.2	14.7
SME1E041.XLS	01	FL1	C01	2	-0.2	14.7
SME1E041.XLS	01	FL1	C01	19	-0.2	33.1
SME1E041.XLS	01	FL1	C01	18	-0.2	8.6
SME1E041.XLS	01	FL1	C01	17	-0.2	2.5
SME1E041.XLS	01	FL1	C01	16	-0.2	2.5
SME1E041.XLS	01	FL1	C01	15	-0.2	8.6
SME1E041.XLS	01	FL1	C01	14	-0.2	-3.7
SME1E041.XLS	01	FL1	C01	13	1.8	2.5
SME1E041.XLS	01	FL1	C01	12	-0.2	-3.7
SME1E041.XLS	01	FL1	C01	11	-0.2	2.5
SME1E041.XLS	01	FL1	C01	10	-0.2	2.5
SME1E041.XLS	01	FL1	C01	1	-0.2	8.6
SME1E041.XLS	01	EQ1	C01	7	-0.2	8.6

REMAINING RESULTS PRINTED ON NEXT PAGE

NOTES: Activity reported in net dpm/100 cm².
 Underlined values exceed the associated MDA.
 Bold values exceed 100.00 dpm/100 cm² (beta activity) and/or 20.00 dpm/100 cm² (alpha activity).



Maine Yankee Atomic Power Plant Site Characterization

03/29/98

Removable Contamination

Survey Package : A0700 SURFACES & STRUCTURES
 Primary Auxiliary Building - Elevation 21 ft.

RESULTS LISTING - SORTED BY SURFACE CODE

XLS FILE	UNIT	SURFACE	REASON	MSRMNT LOCATION	ALPHA	BETA
SME1E041.XLS	01	EQ1	C01	6	-0.2	2.5
SME1E041.XLS	01	EQ1	C01	5	-0.2	33.1
SME1E041.XLS	01	EQ1	C01	4	-0.2	2.5
SME1E041.XLS	01	EQ1	C01	3	-0.2	-3.7
SME1E041.XLS	01	EQ1	C01	2	-0.2	8.6
SME1E041.XLS	01	EQ1	C01	1	-0.2	-3.7
SME1E041.XLS	01	CL1	C01	9	-0.2	2.5
SME1E041.XLS	01	CL1	C01	8	-0.2	8.6
SME1E041.XLS	01	CL1	C01	7	-0.2	2.5
SME1E041.XLS	01	CL1	C01	6	-0.2	14.7
SME1E041.XLS	01	CL1	C01	5	-0.2	2.5
SME1E041.XLS	01	CL1	C01	4	-0.2	-3.7
SME1E041.XLS	01	CL1	C01	3	-0.2	2.5
SME1E041.XLS	01	CL1	C01	2	-0.2	2.5
SME1E041.XLS	01	CL1	C01	17	-0.2	14.7
SME1E041.XLS	01	CL1	C01	16	-0.2	8.6
SME1E041.XLS	01	CL1	C01	15	-0.2	8.6
SME1E041.XLS	01	CL1	C01	14	-0.2	14.7
SME1E041.XLS	01	CL1	C01	13	-0.2	20.8
SME1E041.XLS	01	CL1	C01	12	-0.2	-3.7
SME1E041.XLS	01	CL1	C01	11	-0.2	2.5
SME1E041.XLS	01	CL1	C01	10	-0.2	-3.7
SME1E041.XLS	01	CL1	C01	1	-0.2	8.6

NOTES: Activity reported in net dpm/100 cm².
 Underlined values exceed the associated MDA.
 Bold values exceed 100.00 dpm/100 cm² (beta activity) and/or 20.00 dpm/100 cm² (alpha activity).
 86 results are listed.



Maine Yankee Atomic Power Plant Site Characterization

DATAFILE & TENNELEC CALIBRATION SUMMARY

03/29/98

Removable Contamination

Survey Package : A0700 SURFACES & STRUCTURES
Primary Auxiliary Building - Elevation 21 ft.

SURVEYDATE	XLS FILE	INST ID	S/N	CAL DUE	LAB TECHNICIAN
2/27/98	SME1E041.XLS	1	15632	8/5/98	JWD

CALIBRATION DATE VERIFIED AS ACCEPTABLE



Maine Yankee Atomic Power Plant Site Characterization

Exposure Rate Measurements

03/29/98

Survey Package A0700 SURFACES & STRUCTURES
 Primary Auxiliary Building - Elevation 21 ft.

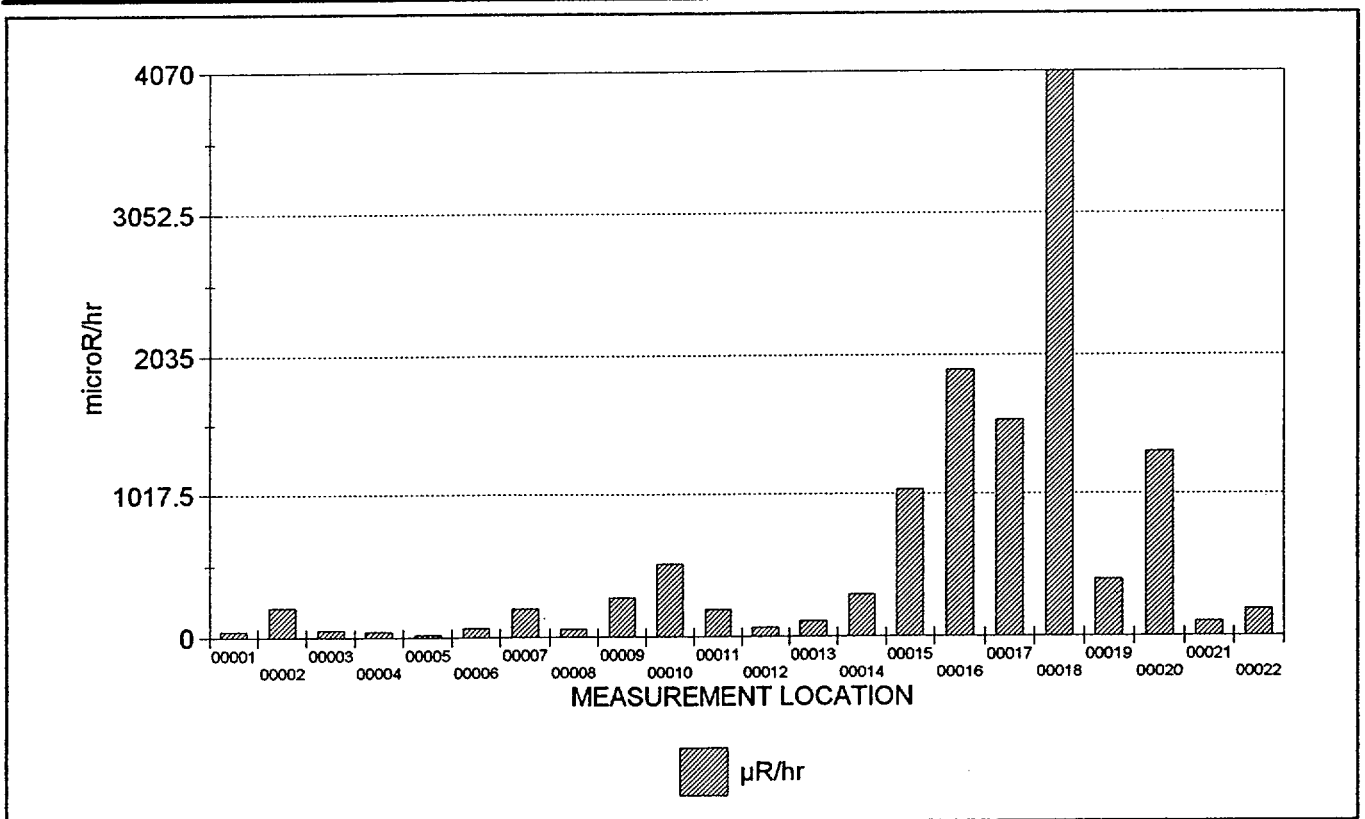
STATISTICAL SUMMARY

TESTS PERFORMED

	$\mu\text{R/hr}$
Mean	580.8
Maximum	4,068.1
Minimum	19.9
Standard Deviation	949.7

Samples reported satisfy samples prescribed	YES
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Samples Reported	22
Samples Prescribed	22



22 RESULTS ARE GRAPHED



Maine Yankee Atomic Power Plant Site Characterization

03/29/98

Exposure Rate Measurements

Survey Package : A0700 SURFACES & STRUCTURES
 Primary Auxiliary Building - Elevation 21 ft.

RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	RESULT
514 (2)	01	FL1	B0001	C01	60.00	00001	42.9
514 (2)	01	FL1	B0001	C01	60.00	00002	210.4
514 (2)	01	FL1	B0001	C01	60.00	00003	52.3
514 (2)	01	FL1	B0001	C01	60.00	00004	39.2
514 (2)	01	FL1	B0001	C01	60.00	00005	19.9
514 (2)	01	FL1	B0001	C01	60.00	00006	62.2
514 (2)	01	FL1	B0001	C01	60.00	00007	202.5
514 (2)	01	FL1	B0001	C01	60.00	00008	57.3
514 (2)	01	FL1	B0001	C01	60.00	00009	279.8
514 (2)	01	FL1	B0001	C01	60.00	00010	520.6
514 (2)	01	FL1	B0001	C01	60.00	00011	192.3
514 (2)	01	FL1	B0001	C01	60.00	00012	64.1
514 (2)	01	FL1	B0001	C01	60.00	00013	108.0
514 (2)	01	FL1	B0001	C01	60.00	00014	299.1
514 (2)	01	FL1	B0001	C01	60.00	00015	1050.3
514 (2)	01	FL1	B0001	C01	60.00	00016	1925.4
514 (2)	01	FL1	B0001	C01	60.00	00017	1561.1
514 (2)	01	FL1	B0001	C01	60.00	00018	4068.1
514 (2)	01	FL1	B0001	C01	60.00	00019	405.6
514 (2)	01	FL1	B0001	C01	60.00	00020	1328.1
514 (2)	01	FL1	B0001	C01	60.00	00021	100.7
514 (2)	01	FL1	B0001	C01	60.00	00022	186.8

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 $\mu\text{R/hr}$.
 22 results are listed.



Maine Yankee Atomic Power Plant Site Characterization

DOWNLOAD FILE & SURVEY INSTRUMENTATION CALIBRATION SUMMARY

03/29/98

Exposure Rate Measurements

Survey Package : A0700 SURFACES & STRUCTURES
 Primary Auxiliary Building - Elevation 21 ft.

SURVEY DATE	FILE #	M2350		DETECTOR			TECHNICIAN
		INST S/N	CAL DUE	MODEL	S/N	CAL DUE	
1/29/98	514 (2)	098639	4/16/98	44-2	129770	5/12/98	JJP1813

CALIBRATION DATES VERIFIED AS ACCEPTABLE



Maine Yankee Atomic Power Plant Site Characterization

 CHARACTERIZATION SUMMARY

04/02/98

SURVEY PACKAGE NUMBER :A0800

SURFACES & STRUCTURES

PACKAGE DESCRIPTION

Primary Auxiliary Building - Elevation 36 ft.

SURVEY AREA DESCRIPTION

Auxiliary Building - 39 ft.

 GENERAL HISTORICAL INFORMATION (Operational history, etc.)

The Primary Auxiliary building was constructed in 1968. The Primary Auxiliary Building contains support and back-up systems for reactor operations. The building construction is heavy steel framework with concrete floors and walls. This area contains removable floor plugs to access filters and electrical conduits embedded in the floor. Most cubicles are posted, e.g., High Rad/Contaminated/Rad. The HVAC ductwork located overhead is posted as internally contaminated and floor drains are posted Contaminated.

 SUMMARY OF CHARACTERIZATION ACTIVITIES

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

Collected 165 direct measurements for total beta activity at the survey measurement locations indicated in the results listing report. Due to elevated background radioactivity in the survey area, a scan of a two meter area encompassing each survey measurement location was not performed. Each direct measurement for total beta activity was accompanied by a corresponding background measurement at the same location. The background was used in the calculation of net dpm/100cm².

Collected smear samples to analyze for removable alpha and beta activity at the same 165 survey locations as the direct measurements for total beta activity.

Collected one meter exposure rate measurements at 50 survey locations indicated in the results listing report.

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 16 direct measurements for total beta activity above 2000 dpm/100cm². There were 7 direct measurements for total beta activity above the individual measurements' MDA (Maximum MDA was 18,042 dpm/100cm²). The maximum measurement result was 14,073 dpm/100cm².
- o There were 3 measurements for removable beta activity above MDA (33.5 dpm/100cm²) and no results greater than 100 dpm/100cm². The maximum measurement result was 94 dpm/100cm².
- o There were no measurements for removable alpha activity above MDA (7 dpm/100cm²).
- o The average and maximum exposure rate measurement results were 0.2 mR/hr and 0.8 mR/hr, respectively.

 REFERENCES (Documents, Interviews)



Maine Yankee Atomic Power Plant Site Characterization

SUMMARY OF SURVEY UNIT(S)

03/29/98

OUTPUT BATCH SN = 265

PACKAGE A0800 SURFACES & STRUCTURES
 Primary Auxiliary Building - Elevation 36 ft.

UNIT(S)	SURFACE(S)
01 - Primary Auxiliary Building - Elevation 36	CL1 (Ceiling) EQ1 (Equipment) EQ2 (Equipment) EQ3 (Equipment) EQ4 (Equipment) EQ5 (Equipment) EQ6 (Equipment) FL1 (Floor) WS1 (Walls)

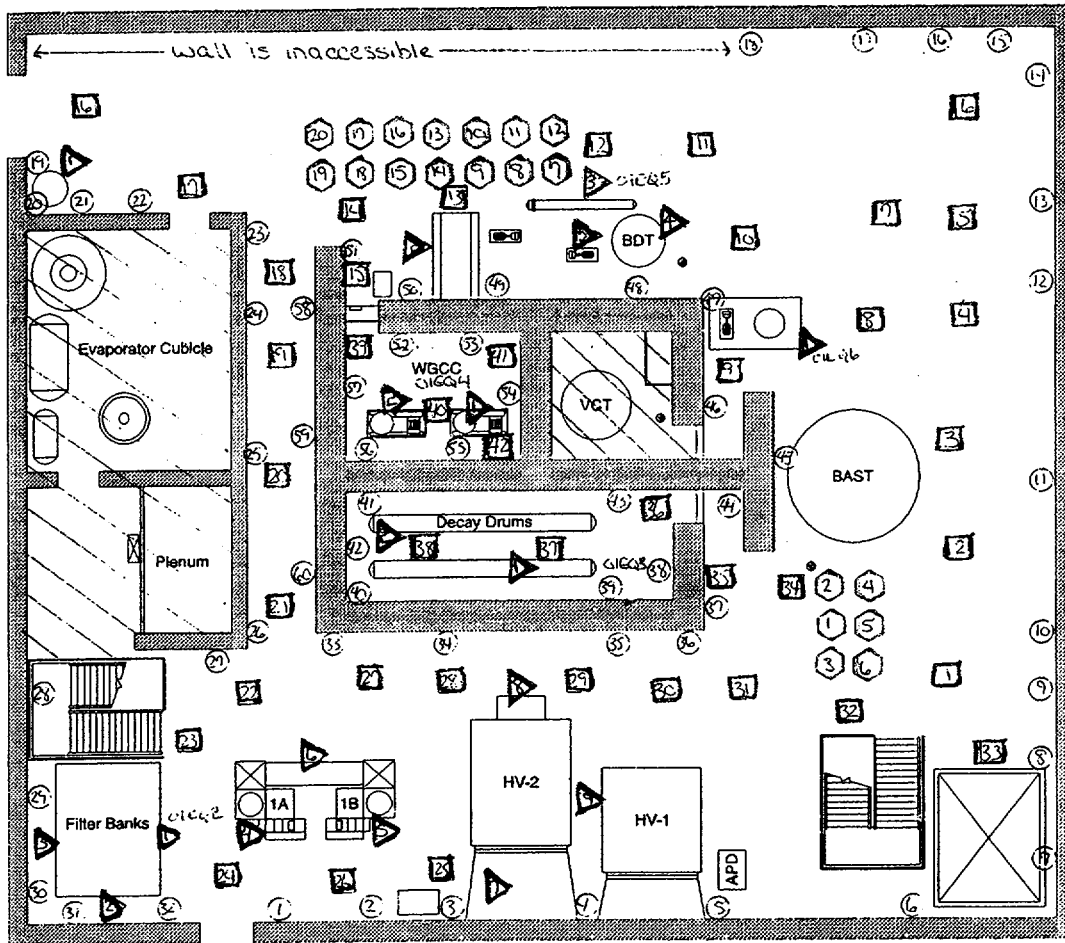
REASON(S) CHARACTERIZATION SURVEY (C01)

MATERIALS	MAT'L CODE	MATERIAL DESCRIPTION	BETA BKGD (dpm/100 cm ²)
	B0001	CONCRETE - PAINTED (INTERIOR)	478.0
	B0003	CINDER BLOCK - PAINTED (INTERIOR)	478.0
	B0018	DUCT	0.0
	B0031	METAL - BARE	0.0
	B0036	METAL - PAINTED	0.0
	B0047	BLANKET INSULATION	0.0

Maine Yankee Atomic Power Plant Site Characterization

SURVEY PACKAGE A0800

Primary Auxiliary Building 36 ft



708-

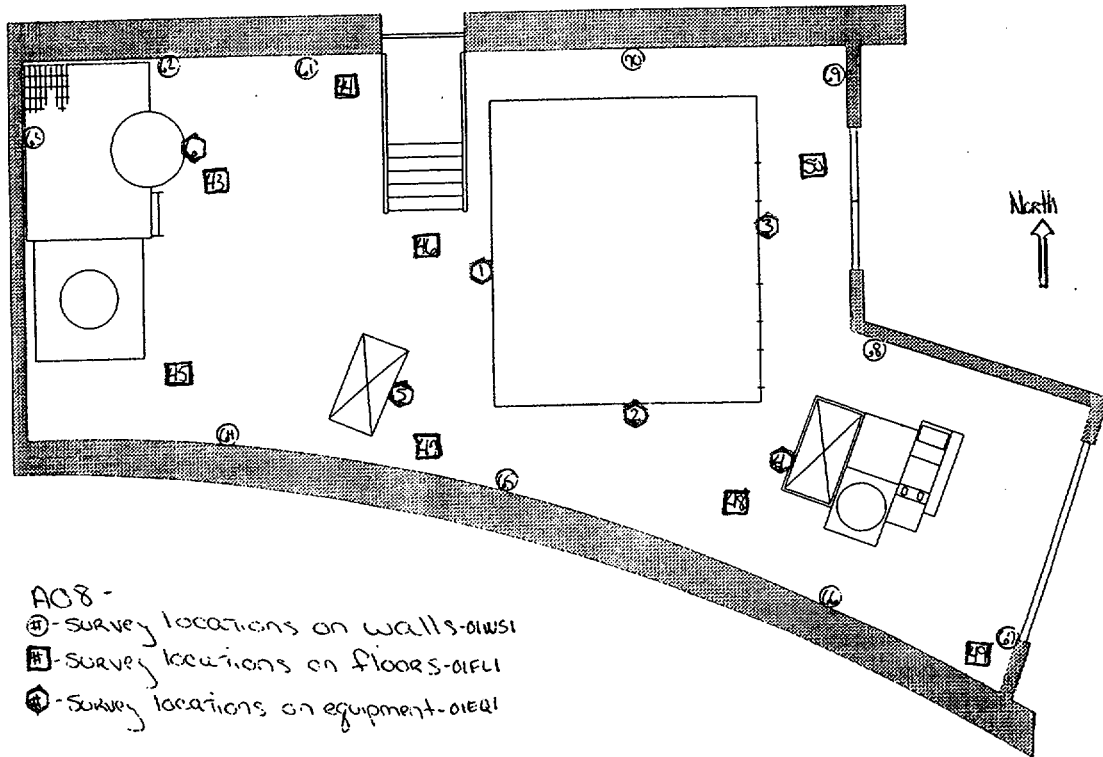
- (A) survey locations on walls and
- (B) survey locations on floors - with
- (C) survey locations on ceilings - with
- (D) survey locations on equipment
- (E) Areas backgrounds to be surveyed



Maine Yankee Atomic Power Plant Site Characterization

SURVEY PACKAGE A0800

Ventilation Equipment Room - PAB 36'





Maine Yankee Atomic Power Plant Site Characterization

03/31/98

Direct Measurements For Total Beta Activity

Survey Package A0800 SURFACES & STRUCTURES
 Primary Auxiliary Building - Elevation 36 ft.

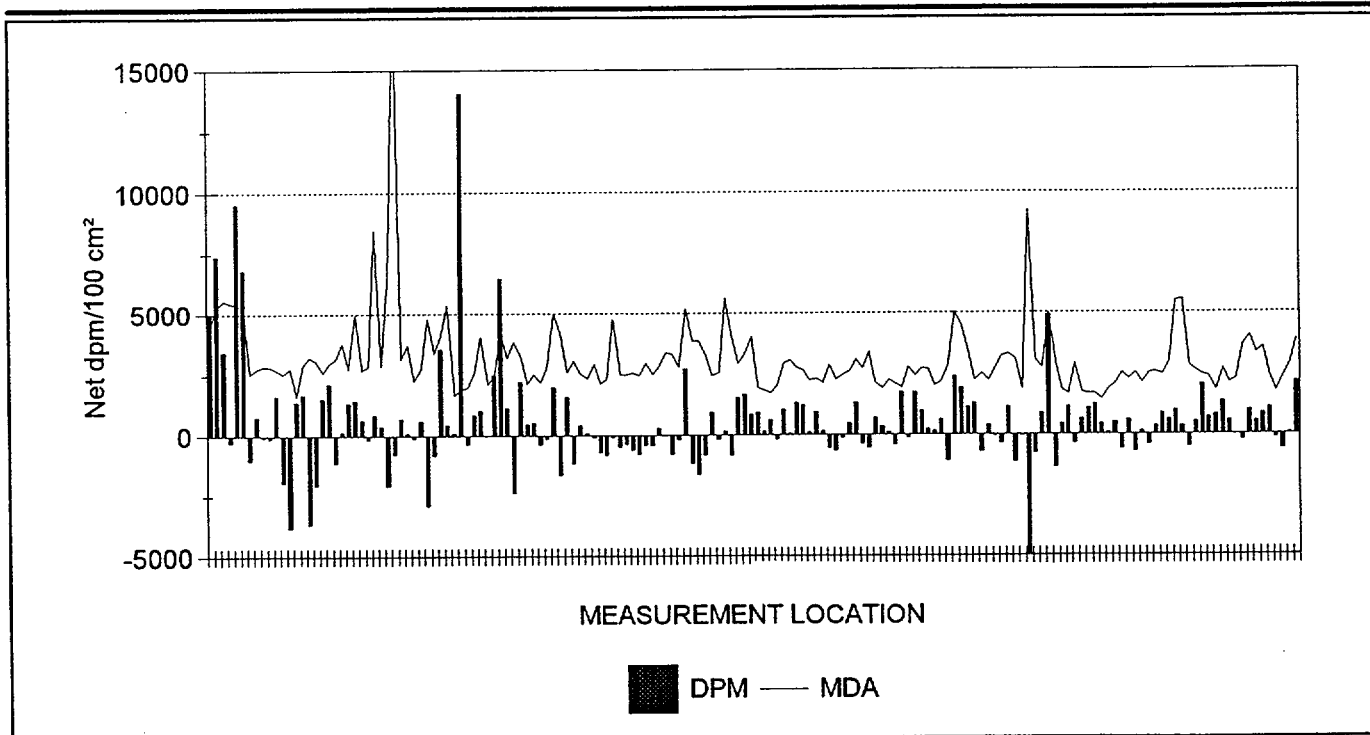
STATISTICAL SUMMARY

TESTS PERFORMED

	Net dpm/100 cm ²
Mean	508.1
Maximum	14,073.0
Minimum	-10,693.2
Standard Deviation	2,166.5
MDA	18,041.7

Samples reported satisfy samples prescribed	YES
MDA <2000 net dpm/100 cm ²	NO
Results above 2000 net dpm/100 cm ²	16
Number of results above MDA	7

Samples Reported	165
Samples Prescribed	165



165 RESULTS ARE GRAPHED



Maine Yankee Atomic Power Plant Site Characterization

03/31/98

Direct Measurements For Total Beta Activity

Survey Package : A0800 SURFACES & STRUCTURES
 Primary Auxiliary Building - Elevation 36 ft.

RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	MDA	RESULT
479 (2)	01	CL1	B0036	C01	60	00001	4,461.2	<u>5,024.6</u>
479 (2)	01	CL1	B0036	C01	60	00002	5,287.0	<u>7,395.8</u>
479 (2)	01	CL1	B0036	C01	60	00003	5,536.3	<u>3,443.8</u>
479 (2)	01	CL1	B0036	C01	60	00004	5,452.3	-282.3
479 (2)	01	CL1	B0036	C01	60	00005	5,393.4	<u>9,541.1</u>
479 (2)	01	CL1	B0036	C01	60	00006	5,232.9	<u>6,831.2</u>
479 (2)	01	CL1	B0036	C01	60	00007	2,560.5	-1,016.2
479 (2)	01	CL1	B0036	C01	60	00008	2,766.6	790.4
479 (2)	01	CL1	B0036	C01	60	00009	2,857.4	-56.5
479 (2)	01	CL1	B0036	C01	60	00010	2,844.6	-112.9
479 (2)	01	CL1	B0036	C01	60	00011	2,713.3	1,637.2
479 (2)	01	CL1	B0036	C01	60	00012	2,546.1	-1,919.5
479 (2)	01	CL1	B0036	C01	60	00013	2,766.6	-3,839.0
479 (2)	01	CL1	B0036	C01	60	00014	1,638.9	1,411.4
479 (2)	01	CL1	B0036	C01	60	00015	2,908.0	1,693.7
479 (2)	01	CL1	B0036	C01	60	00016	3,216.3	-3,669.6
479 (2)	01	CL1	B0036	C01	60	00017	3,078.0	-2,032.4
479 (2)	01	CL1	B0036	C01	60	00018	2,617.1	1,524.3
479 (2)	01	CL1	B0036	C01	60	00019	2,957.6	<u>2,145.3</u>
479 (2)	01	CL1	B0036	C01	60	00020	3,159.5	-1,129.1
461 (2)	01	EQ1	B0018	C01	60	00004	3,775.8	163.0
461 (2)	01	EQ1	B0018	C01	60	00005	2,762.4	1,358.4
461 (2)	01	EQ1	B0018	C01	60	00006	4,964.0	1,467.1
461 (2)	01	EQ1	B0036	C01	60	00001	2,700.5	652.0
461 (2)	01	EQ1	B0036	C01	60	00002	2,846.5	-163.0
461 (2)	01	EQ1	B0036	C01	60	00003	8,463.2	869.4
461 (2)	01	EQ2	B0018	C01	60	00006	2,858.4	380.4
461 (2)	01	EQ2	B0018	C01	60	00009	6,607.6	-2,064.8
461 (2)	01	EQ2	B0031	C01	60	00008	18,041.	-760.7
461 (2)	01	EQ2	B0036	C01	60	00001	3,159.9	706.4
461 (2)	01	EQ2	B0036	C01	60	00002	3,704.6	108.7
461 (2)	01	EQ2	B0036	C01	60	00003	2,262.4	-108.7
461 (2)	01	EQ2	B0036	C01	60	00004	2,762.4	597.7
461 (2)	01	EQ2	B0036	C01	60	00005	4,788.3	-2,879.8
461 (2)	01	EQ2	B0036	C01	60	00007	3,374.9	-815.0
461 (2)	01	EQ3	B0036	C01	60	00001	4,063.8	<u>3,531.8</u>
461 (2)	01	EQ3	B0036	C01	60	00002	5,365.2	434.7
461 (2)	01	EQ4	B0036	C01	60	00001	1,664.1	108.7
461 (2)	01	EQ4	B0036	C01	60	00002	1,898.8	<u>14,073.0</u>
461 (2)	01	EQ5	B0031	C01	60	00002	1,987.8	-326.0

NOTES: Activity reported in net dpm/100 cm². Count times are reported in seconds.
 Underlined values exceed the MDA.
 Bold values exceed 2000 dpm/100 cm².



Maine Yankee Atomic Power Plant Site Characterization

03/31/98

Direct Measurements For Total Beta Activity

Survey Package : A0800 SURFACES & STRUCTURES
 Primary Auxiliary Building - Elevation 36 ft.

RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	MDA	RESULT
461 (2)	01	EQ5	B0031	C01	60	00003	2,572.1	869.4
461 (2)	01	EQ5	B0036	C01	60	00005	4,031.0	1,032.4
461 (2)	01	EQ5	B0047	C01	60	00001	2,105.5	0.0
461 (2)	01	EQ5	B0047	C01	60	00004	2,478.1	<u>2,499.5</u>
461 (2)	01	EQ6	B0031	C01	60	00001	4,200.1	<u>6,466.0</u>
436 (2)	01	FL1	B0001	C01	60	00001	3,170.4	1,141.5
436 (2)	01	FL1	B0001	C01	60	00002	3,826.0	-2,376.8
436 (2)	01	FL1	B0001	C01	60	00003	3,258.6	<u>2,202.6</u>
436 (2)	01	FL1	B0001	C01	60	00004	2,130.2	471.4
436 (2)	01	FL1	B0001	C01	60	00005	2,518.6	527.2
436 (2)	01	FL1	B0001	C01	60	00006	2,197.3	-366.3
436 (2)	01	FL1	B0001	C01	60	00007	2,813.9	-142.9
436 (2)	01	FL1	B0001	C01	60	00008	4,991.6	1,979.2
436 (2)	01	FL1	B0001	C01	60	00009	4,176.8	-1,650.8
436 (2)	01	FL1	B0001	C01	60	00010	2,602.7	1,588.3
436 (2)	01	FL1	B0001	C01	60	00011	3,068.0	-1,148.2
436 (2)	01	FL1	B0001	C01	60	00012	2,561.0	415.5
436 (2)	01	FL1	B0001	C01	60	00013	2,356.2	80.5
436 (2)	01	FL1	B0001	C01	60	00014	2,949.9	-87.1
436 (2)	01	FL1	B0001	C01	60	00015	2,130.2	-701.4
436 (2)	01	FL1	B0001	C01	60	00016	2,309.7	-813.1
436 (2)	01	FL1	B0001	C01	60	00017	4,777.6	-87.1
436 (2)	01	FL1	B0001	C01	60	00018	2,504.3	-478.0
436 (2)	01	FL1	B0001	C01	60	00019	2,489.9	-366.3
436 (2)	01	FL1	B0001	C01	60	00020	2,575.0	-589.7
450 (2)	01	FL1	B0001	C01	60	00021	2,465.8	-770.2
450 (2)	01	FL1	B0001	C01	60	00022	2,958.0	-419.6
450 (2)	01	FL1	B0001	C01	60	00023	2,529.0	-419.6
450 (2)	01	FL1	B0001	C01	60	00024	2,836.5	281.8
450 (2)	01	FL1	B0001	C01	60	00025	3,375.9	-10.4
450 (2)	01	FL1	B0001	C01	60	00026	3,341.2	-770.2
450 (2)	01	FL1	B0001	C01	60	00027	2,808.8	-185.8
450 (2)	01	FL1	B0001	C01	60	00028	5,172.5	<u>2,736.4</u>
450 (2)	01	FL1	B0001	C01	60	00029	3,857.0	-1,179.3
450 (2)	01	FL1	B0001	C01	60	00030	3,847.0	-1,646.9
450 (2)	01	FL1	B0001	C01	60	00031	3,329.6	-828.7
450 (2)	01	FL1	B0001	C01	60	00032	2,481.7	924.7
450 (2)	01	FL1	B0001	C01	60	00033	2,590.6	-185.8
450 (2)	01	FL1	B0001	C01	60	00034	5,624.0	164.9
450 (2)	01	FL1	B0001	C01	60	00035	4,070.7	-828.7

NOTES: Activity reported in net dpm/100 cm². Count times are reported in seconds.

Underlined values exceed the MDA.

Bold values exceed 2000 dpm/100 cm².



Maine Yankee Atomic Power Plant Site Characterization

03/31/98

Direct Measurements For Total Beta Activity

Survey Package : A0800 SURFACES & STRUCTURES
 Primary Auxiliary Building - Elevation 36 ft.

RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	MDA	RESULT
450 (2)	01	FL1	B0001	C01	60	00036	2,931.5	1,567.5
450 (2)	01	FL1	B0001	C01	60	00037	3,341.2	1,684.4
450 (2)	01	FL1	B0001	C01	60	00038	4,023.2	866.2
450 (2)	01	FL1	B0001	C01	60	00039	1,962.1	924.7
450 (2)	01	FL1	B0001	C01	60	00040	1,856.6	164.9
450 (2)	01	FL1	B0001	C01	60	00041	1,744.0	632.4
450 (2)	01	FL1	B0001	C01	60	00042	2,042.3	-185.8
450 (2)	01	FL1	B0001	C01	60	00043	2,971.2	1,041.5
450 (2)	01	FL1	B0001	C01	60	00044	3,061.8	48.0
450 (2)	01	FL1	B0001	C01	60	00045	2,780.7	1,333.8
450 (2)	01	FL1	B0001	C01	60	00046	2,680.1	1,216.9
450 (2)	01	FL1	B0001	C01	60	00047	2,264.7	106.4
450 (2)	01	FL1	B0001	C01	60	00048	2,316.7	924.7
450 (2)	01	FL1	B0001	C01	60	00049	2,156.6	164.9
450 (2)	01	FL1	B0001	C01	60	00050	2,877.6	-536.4
450 (2)	01	WS1	B0001	C01	60	00007	2,299.5	-653.3
450 (2)	01	WS1	B0001	C01	60	00008	2,465.8	-127.3
450 (2)	01	WS1	B0001	C01	60	00009	2,635.7	457.1
450 (2)	01	WS1	B0001	C01	60	00010	3,087.1	1,333.8
450 (2)	01	WS1	B0001	C01	60	00011	2,723.7	-361.1
450 (2)	01	WS1	B0001	C01	60	00012	3,375.9	-536.4
450 (2)	01	WS1	B0001	C01	60	00013	2,138.0	690.9
450 (2)	01	WS1	B0001	C01	60	00014	1,920.7	340.2
450 (2)	01	WS1	B0001	C01	60	00019	2,264.7	106.4
450 (2)	01	WS1	B0001	C01	60	00020	2,100.3	-419.6
450 (2)	01	WS1	B0001	C01	60	00021	1,941.5	1,742.9
450 (2)	01	WS1	B0001	C01	60	00022	2,780.7	-127.3
450 (2)	01	WS1	B0001	C01	60	00023	2,449.7	1,742.9
450 (2)	01	WS1	B0001	C01	60	00024	2,723.7	983.1
450 (2)	01	WS1	B0001	C01	60	00028	2,709.3	223.3
450 (2)	01	WS1	B0001	C01	60	00029	2,022.6	164.9
450 (2)	01	WS1	B0001	C01	60	00030	2,175.0	632.4
450 (2)	01	WS1	B0001	C01	60	00033	2,891.2	-1,062.4
450 (2)	01	WS1	B0001	C01	60	00034	5,022.7	<u>2,385.8</u>
450 (2)	01	WS1	B0001	C01	60	00035	4,475.1	1,918.2
450 (2)	01	WS1	B0001	C01	60	00036	3,455.3	1,158.4
461 (2)	01	WS1	B0001	C01	60	00037	2,247.3	1,315.1
461 (2)	01	WS1	B0001	C01	60	00038	2,518.8	-695.3
461 (2)	01	WS1	B0001	C01	60	00039	2,232.0	391.4
461 (2)	01	WS1	B0001	C01	60	00040	2,725.4	-43.3

NOTES: Activity reported in net dpm/100 cm². Count times are reported in seconds.
 Underlined values exceed the MDA.
 Bold values exceed 2000 dpm/100 cm².



Maine Yankee Atomic Power Plant Site Characterization

03/31/98

Direct Measurements For Total Beta Activity

Survey Package : A0800 SURFACES & STRUCTURES
 Primary Auxiliary Building - Elevation 36 ft.

RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	MDA	RESULT
461 (2)	01	WS1	B0001	C01	60	00041	3,222.8	-369.3
461 (2)	01	WS1	B0001	C01	60	00042	3,304.9	1,152.1
461 (2)	01	WS1	B0001	C01	60	00043	3,095.5	-1,130.0
461 (2)	01	WS1	B0001	C01	60	00044	1,880.4	-43.3
461 (2)	01	WS1	B0001	C01	60	00045	9,241.5	-10,693.2
461 (2)	01	WS1	B0001	C01	60	00046	3,073.8	-749.7
461 (2)	01	WS1	B0001	C01	60	00047	2,762.4	880.4
461 (2)	01	WS1	B0001	C01	60	00048	4,983.8	<u>4,901.3</u>
461 (2)	01	WS1	B0001	C01	60	00049	2,996.3	-1,347.4
461 (2)	01	WS1	B0001	C01	60	00050	1,824.2	445.7
461 (2)	01	WS1	B0001	C01	60	00051	1,685.0	1,152.1
461 (2)	01	WS1	B0001	C01	60	00052	2,916.7	-369.3
461 (2)	01	WS1	B0001	C01	60	00053	1,746.2	663.1
461 (2)	01	WS1	B0001	C01	60	00054	1,685.0	1,097.7
461 (2)	01	WS1	B0001	C01	60	00055	1,685.0	1,260.8
461 (2)	01	WS1	B0001	C01	60	00056	1,460.9	445.7
461 (2)	01	WS1	B0001	C01	60	00057	1,861.9	65.4
461 (2)	01	WS1	B0001	C01	60	00058	2,105.5	500.0
461 (2)	01	WS1	B0001	C01	60	00059	2,545.6	-586.7
461 (2)	01	WS1	B0001	C01	60	00060	2,292.4	608.7
461 (2)	01	WS1	B0001	C01	60	00064	2,558.9	-695.3
461 (2)	01	WS1	B0001	C01	60	00065	2,137.9	119.7

REMAINING RESULTS PRINTED ON NEXT PAGE

NOTES: Activity reported in net dpm/100 cm². Count times are reported in seconds.
 Underlined values exceed the MDA.
 Bold values exceed 2000 dpm/100 cm².



Maine Yankee Atomic Power Plant Site Characterization

03/31/98

Direct Measurements For Total Beta Activity

Survey Package : A0800 SURFACES & STRUCTURES
 Primary Auxiliary Building - Elevation 36 ft.

RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	MDA	RESULT
461 (2)	01	WS1	B0001	C01	60	00066	2,545.6	-423.7
450 (2)	01	WS1	B0003	C01	60	00025	2,575.3	340.2
450 (2)	01	WS1	B0003	C01	60	00026	2,465.8	866.2
450 (2)	01	WS1	B0003	C01	60	00027	2,971.2	632.4
450 (2)	01	WS1	B0036	C01	60	00001	5,480.1	993.5
450 (2)	01	WS1	B0036	C01	60	00002	5,535.4	350.7
450 (2)	01	WS1	B0036	C01	60	00003	2,850.3	-526.0
450 (2)	01	WS1	B0036	C01	60	00004	2,620.8	526.0
450 (2)	01	WS1	B0036	C01	60	00005	2,465.8	<u>2,045.5</u>
450 (2)	01	WS1	B0036	C01	60	00006	2,384.2	<u>701.3</u>
450 (2)	01	WS1	B0036	C01	60	00015	1,834.6	818.2
450 (2)	01	WS1	B0036	C01	60	00016	2,709.3	1,344.2
450 (2)	01	WS1	B0036	C01	60	00017	2,138.0	584.4
450 (2)	01	WS1	B0036	C01	60	00018	2,299.5	0.0
450 (2)	01	WS1	B0036	C01	60	00031	3,640.7	-233.8
450 (2)	01	WS1	B0036	C01	60	00032	4,032.7	993.5
461 (2)	01	WS1	B0036	C01	60	00061	3,335.1	543.4
461 (2)	01	WS1	B0036	C01	60	00062	3,576.6	869.4
461 (2)	01	WS1	B0036	C01	60	00063	2,422.6	1,086.7
461 (2)	01	WS1	B0036	C01	60	00067	1,766.0	-163.0
461 (2)	01	WS1	B0036	C01	60	00068	2,408.5	-597.7
461 (2)	01	WS1	B0036	C01	60	00069	2,893.5	54.3
461 (2)	01	WS1	B0036	C01	60	00070	3,871.4	<u>2,173.4</u>

NOTES: Activity reported in net dpm/100 cm². Count times are reported in seconds.
 Underlined values exceed the MDA.
 Bold values exceed 2000 dpm/100 cm².
 165 results are listed.



Maine Yankee Atomic Power Plant Site Characterization

DOWNLOAD FILE & SURVEY INSTRUMENTATION CALIBRATION SUMMARY

03/31/98

Direct Measurements For Total Beta Activity

Survey Package : A0800 SURFACES & STRUCTURES
 Primary Auxiliary Building - Elevation 36 ft.

SURVEY DATE	FILE #	M2350		DETECTOR			PRE EFF	TECHNICIAN
		INST S/N	CAL DUE	MODEL	S/N	CAL DUE		
1/19/98	436 (2)	98620	3/20/98	44-40	125861	3/22/98	.12	DRK2986
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
1/20/98	450 (2)	126201	4/15/98	44-40	119455	4/29/98	.11	BSM0490
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
1/21/98	461 (2)	126201	4/15/98	44-40	119455	4/29/98	.12	BSM0490
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
1/26/98	479 (2)	126201	4/15/98	44-40	119455	4/29/98	.11	BSM0490
CALIBRATION DATES VERIFIED AS ACCEPTABLE								



Maine Yankee Atomic Power Plant Site Characterization

03/29/98

Removable Contamination - Gross Beta Activity

Survey Package A0800 SURFACES & STRUCTURES
 Primary Auxiliary Building - Elevation 36 ft.

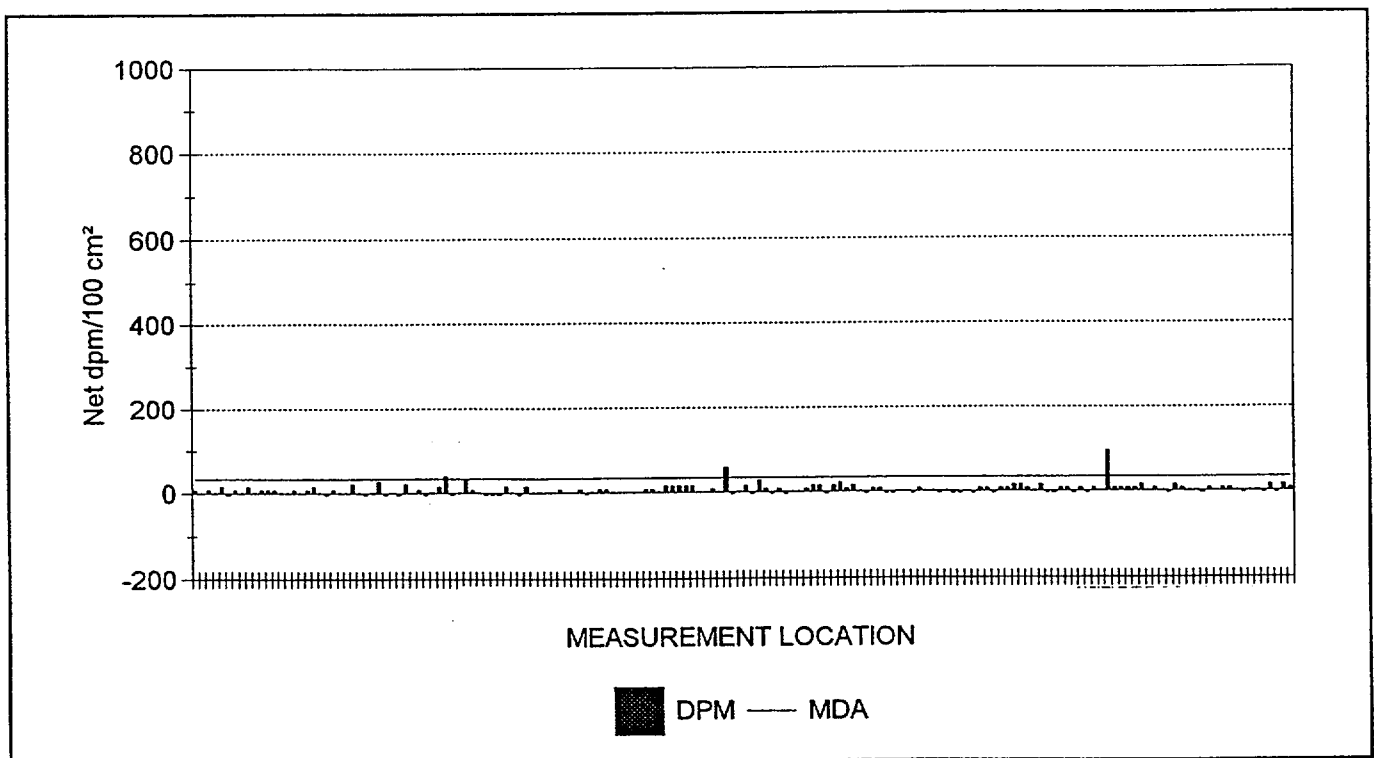
STATISTICAL SUMMARY

	Net dpm/100 cm ²
Mean	5.9
Maximum	94.2
Minimum	-4.2
Standard Deviation	11.0
MDA	33.5

TESTS PERFORMED

MDA <100 net dpm/100 cm ²	YES
Results above 100 net dpm/100 cm ²	0
Number of results above MDA	3

Samples Reported	165
Samples Prescribed	165



165 RESULTS ARE GRAPHED



Maine Yankee Atomic Power Plant Site Characterization

03/29/98

Removable Contamination - Gross Alpha Activity

Survey Package A0800 SURFACES & STRUCTURES
 Primary Auxiliary Building - Elevation 36 ft.

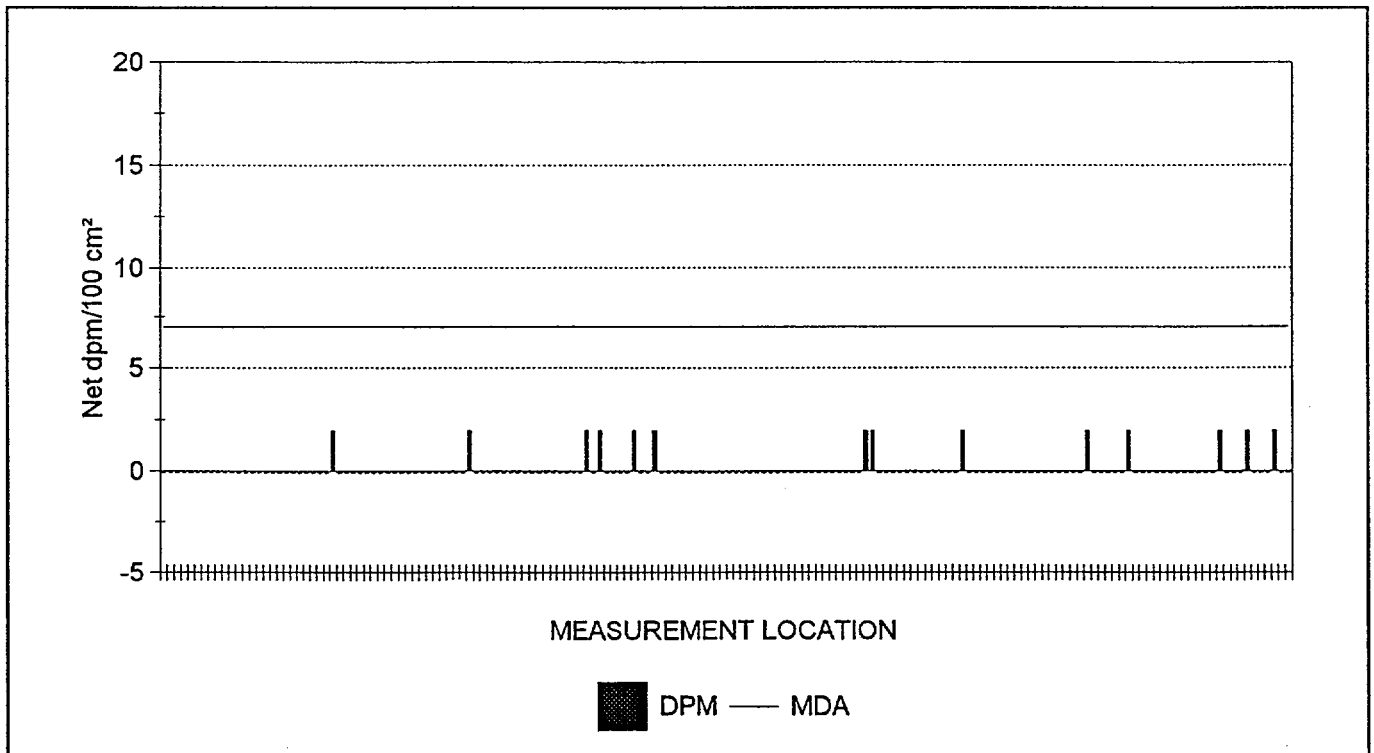
STATISTICAL SUMMARY

TESTS PERFORMED

	Net dpm/100 cm ²
Mean	0.1
Maximum	2.0
Minimum	-0.1
Standard Deviation	0.6
MDA	7.0

MDA < 10 net dpm/100 cm ²	YES
Results above 20 net dpm/100 cm ²	0
Number of results above MDA	0

Samples Reported	165
Samples Prescribed	165



165 RESULTS ARE GRAPHED



Maine Yankee Atomic Power Plant Site Characterization

03/29/98

Removable Contamination

Survey Package : A0800 SURFACES & STRUCTURES
 Primary Auxiliary Building - Elevation 36 ft.

RESULTS LISTING - SORTED BY SURFACE CODE

XLS FILE	UNIT	SURFACE	REASON	MSRMNT LOCATION	ALPHA	BETA
SME1E021.XLS	01	WS1	C01	9	-0.1	8.1
SME1E021.XLS	01	WS1	C01	8	-0.1	14.2
SME1E021.XLS	01	WS1	C01	70	2.0	-4.2
SME1E021.XLS	01	WS1	C01	7	-0.1	14.2
SME1E021.XLS	01	WS1	C01	69	-0.1	-4.2
SME1E021.XLS	01	WS1	C01	68	-0.1	1.9
SME1E021.XLS	01	WS1	C01	67	2.0	1.9
SME1E021.XLS	01	WS1	C01	66	-0.1	-4.2
SME1E021.XLS	01	WS1	C01	65	-0.1	1.9
SME1E021.XLS	01	WS1	C01	64	-0.1	8.1
SME1E021.XLS	01	WS1	C01	63	2.0	8.1
SME1E021.XLS	01	WS1	C01	62	-0.1	1.9
SME1E021.XLS	01	WS1	C01	61	-0.1	8.1
SME1E021.XLS	01	WS1	C01	60	-0.1	-4.2
SME1E021.XLS	01	WS1	C01	6	-0.1	1.9
SME1E021.XLS	01	WS1	C01	59	-0.1	1.9
SME1E021.XLS	01	WS1	C01	58	-0.1	8.1
SME1E021.XLS	01	WS1	C01	57	-0.1	14.2
SME1E021.XLS	01	WS1	C01	56	-0.1	-4.2
SME1E021.XLS	01	WS1	C01	55	-0.1	1.9
SME1E021.XLS	01	WS1	C01	54	-0.1	8.1
SME1E021.XLS	01	WS1	C01	53	-0.1	1.9
SME1E021.XLS	01	WS1	C01	52	-0.1	14.2
SME1E021.XLS	01	WS1	C01	51	2.0	8.1
SME1E021.XLS	01	WS1	C01	50	-0.1	8.1
SME1E021.XLS	01	WS1	C01	5	-0.1	8.1
SME1E021.XLS	01	WS1	C01	49	-0.1	8.1
SME1E021.XLS	01	WS1	C01	48	-0.1	94.2
SME1E021.XLS	01	WS1	C01	47	-0.1	1.9
SME1E021.XLS	01	WS1	C01	46	2.0	8.1
SME1E021.XLS	01	WS1	C01	45	-0.1	-4.2
SME1E021.XLS	01	WS1	C01	44	-0.1	8.1
SME1E021.XLS	01	WS1	C01	43	-0.1	-4.2
SME1E021.XLS	01	WS1	C01	42	-0.1	8.1
SME1E021.XLS	01	WS1	C01	41	-0.1	8.1
SME1E021.XLS	01	WS1	C01	40	-0.1	-4.2
SME1E021.XLS	01	WS1	C01	4	-0.1	-4.2
SME1E021.XLS	01	WS1	C01	39	-0.1	14.2
SME1E021.XLS	01	WS1	C01	38	-0.1	1.9
SME1E021.XLS	01	WS1	C01	37	-0.1	8.1

NOTES: Activity reported in net dpm/100 cm².
 Underlined values exceed the associated MDA.
 Bold values exceed 100.00 dpm/100 cm² (beta activity) and/or 20.00 dpm/100 cm² (alpha activity).



Maine Yankee Atomic Power Plant Site Characterization

03/29/98

Removable Contamination

Survey Package : A0800 SURFACES & STRUCTURES
 Primary Auxiliary Building - Elevation 36 ft.

RESULTS LISTING - SORTED BY SURFACE CODE

XLS FILE	UNIT	SURFACE	REASON	MSRMNT LOCATION	ALPHA	BETA
SME1E021.XLS	01	WS1	C01	36	-0.1	14.2
SME1E021.XLS	01	WS1	C01	35	-0.1	14.2
SME1E021.XLS	01	WS1	C01	34	-0.1	8.1
SME1E021.XLS	01	WS1	C01	33	-0.1	8.1
SME1E021.XLS	01	WS1	C01	32	-0.1	-4.2
SME1E021.XLS	01	WS1	C01	31	-0.1	8.1
SME1E021.XLS	01	WS1	C01	30	-0.1	8.1
SME1E021.XLS	01	WS1	C01	3	2.0	-4.2
SME1E021.XLS	01	WS1	C01	29	-0.1	1.9
SME1E021.XLS	01	WS1	C01	28	-0.1	-4.2
SME1E021.XLS	01	WS1	C01	27	-0.1	-4.2
SME1E021.XLS	01	WS1	C01	26	-0.1	1.9
SME1E021.XLS	01	WS1	C01	25	-0.1	-4.2
SME1E021.XLS	01	WS1	C01	24	-0.1	1.9
SME1E021.XLS	01	WS1	C01	23	-0.1	1.9
SME1E021.XLS	01	WS1	C01	22	-0.1	8.1
SME1E021.XLS	01	WS1	C01	21	-0.1	-4.2
SME1E021.XLS	01	WS1	C01	20	-0.1	1.9
SME1E021.XLS	01	WS1	C01	2	-0.1	1.9
SME1E021.XLS	01	WS1	C01	19	-0.1	-4.2
SME1E021.XLS	01	WS1	C01	18	2.0	-4.2
SME1E021.XLS	01	WS1	C01	17	2.0	8.1
SME1E021.XLS	01	WS1	C01	16	-0.1	8.1
SME1E021.XLS	01	WS1	C01	15	-0.1	-4.2
SME1E021.XLS	01	WS1	C01	14	-0.1	1.9
SME1E021.XLS	01	WS1	C01	13	-0.1	14.2
SME1E021.XLS	01	WS1	C01	12	-0.1	8.1
SME1E021.XLS	01	WS1	C01	11	-0.1	20.4
SME1E021.XLS	01	WS1	C01	10	-0.1	14.2
SME1E021.XLS	01	WS1	C01	1	-0.1	-4.2
SME1E021.XLS	01	FL1	C01	9	-0.1	14.2
SME1E021.XLS	01	FL1	C01	8	-0.1	14.2
SME1E021.XLS	01	FL1	C01	7	-0.1	8.1
SME1E021.XLS	01	FL1	C01	6	-0.1	1.9
SME1E021.XLS	01	FL1	C01	50	-0.1	1.9
SME1E021.XLS	01	FL1	C01	5	-0.1	-4.2
SME1E021.XLS	01	FL1	C01	49	-0.1	8.1
SME1E021.XLS	01	FL1	C01	48	-0.1	-4.2
SME1E021.XLS	01	FL1	C01	47	-0.1	8.1
SME1E021.XLS	01	FL1	C01	46	-0.1	26.5

NOTES: Activity reported in net dpm/100 cm².

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Bold values exceed 100.00 dpm/100 cm² (beta activity) and/or 20.00 dpm/100 cm² (alpha activity).



Maine Yankee Atomic Power Plant Site Characterization

03/29/98

Removable Contamination

Survey Package : A0800 SURFACES & STRUCTURES
 Primary Auxiliary Building - Elevation 36 ft.

RESULTS LISTING - SORTED BY SURFACE CODE

XLS FILE	UNIT	SURFACE	REASON	MSRMNT LOCATION	ALPHA	BETA
SME1E021.XLS	01	FL1	C01	45	-0.1	-4.2
SME1E021.XLS	01	FL1	C01	44	-0.1	14.2
SME1E021.XLS	01	FL1	C01	43	-0.1	1.9
SME1E021.XLS	01	FL1	C01	42	-0.1	-4.2
SME1E021.XLS	01	FL1	C01	41	-0.1	57.3
SME1E021.XLS	01	FL1	C01	40	-0.1	1.9
SME1E021.XLS	01	FL1	C01	4	-0.1	8.1
SME1E021.XLS	01	FL1	C01	39	-0.1	1.9
SME1E021.XLS	01	FL1	C01	38	-0.1	1.9
SME1E021.XLS	01	FL1	C01	37	-0.1	14.2
SME1E021.XLS	01	FL1	C01	36	-0.1	14.2
SME1E021.XLS	01	FL1	C01	35	-0.1	14.2
SME1E021.XLS	01	FL1	C01	34	2.0	14.2
SME1E021.XLS	01	FL1	C01	33	-0.1	14.2
SME1E021.XLS	01	FL1	C01	32	-0.1	1.9
SME1E021.XLS	01	FL1	C01	31	2.0	8.1
SME1E021.XLS	01	FL1	C01	30	-0.1	8.1
SME1E021.XLS	01	FL1	C01	3	-0.1	1.9
SME1E021.XLS	01	FL1	C01	29	-0.1	1.9
SME1E021.XLS	01	FL1	C01	28	-0.1	1.9
SME1E021.XLS	01	FL1	C01	27	2.0	1.9
SME1E021.XLS	01	FL1	C01	26	-0.1	1.9
SME1E021.XLS	01	FL1	C01	25	2.0	8.1
SME1E021.XLS	01	FL1	C01	24	-0.1	8.1
SME1E021.XLS	01	FL1	C01	23	-0.1	1.9
SME1E021.XLS	01	FL1	C01	22	-0.1	-4.2
SME1E021.XLS	01	FL1	C01	21	-0.1	8.1
SME1E021.XLS	01	FL1	C01	20	-0.1	1.9
SME1E021.XLS	01	FL1	C01	2	-0.1	1.9
SME1E021.XLS	01	FL1	C01	19	-0.1	8.1
SME1E021.XLS	01	FL1	C01	18	-0.1	1.9
SME1E021.XLS	01	FL1	C01	17	-0.1	1.9
SME1E021.XLS	01	FL1	C01	16	-0.1	1.9
SME1E021.XLS	01	FL1	C01	15	-0.1	1.9
SME1E021.XLS	01	FL1	C01	14	-0.1	14.2
SME1E021.XLS	01	FL1	C01	13	-0.1	-4.2
SME1E021.XLS	01	FL1	C01	12	-0.1	1.9
SME1E021.XLS	01	FL1	C01	11	-0.1	14.2
SME1E021.XLS	01	FL1	C01	10	-0.1	-4.2
SME1E021.XLS	01	FL1	C01	1	2.0	-4.2

NOTES: Activity reported in net dpm/100 cm².
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Maine Yankee Atomic Power Plant Site Characterization

03/29/98

Removable Contamination

Survey Package : A0800 SURFACES & STRUCTURES
 Primary Auxiliary Building - Elevation 36 ft.

RESULTS LISTING - SORTED BY SURFACE CODE

XLS FILE	UNIT	SURFACE	REASON	MSRMNT LOCATION	ALPHA	BETA
SME1E021.XLS	01	EQ6	C01	1	-0.1	-4.2
SME1E021.XLS	01	EQ5	C01	5	-0.1	1.9
SME1E021.XLS	01	EQ5	C01	4	-0.1	8.1
SME1E021.XLS	01	EQ5	C01	3	-0.1	32.7
SME1E021.XLS	01	EQ5	C01	2	-0.1	1.9
SME1E021.XLS	01	EQ5	C01	1	-0.1	-4.2
SME1E021.XLS	01	EQ4	C01	2	-0.1	38.8
SME1E021.XLS	01	EQ4	C01	1	-0.1	14.2
SME1E021.XLS	01	EQ3	C01	2	-0.1	1.9
SME1E021.XLS	01	EQ3	C01	1	-0.1	-4.2
SME1E021.XLS	01	EQ2	C01	9	-0.1	8.1
SME1E021.XLS	01	EQ2	C01	8	-0.1	1.9
SME1E021.XLS	01	EQ2	C01	7	-0.1	20.4
SME1E021.XLS	01	EQ2	C01	6	-0.1	-4.2
SME1E021.XLS	01	EQ2	C01	5	-0.1	1.9
SME1E021.XLS	01	EQ2	C01	4	-0.1	-4.2
SME1E021.XLS	01	EQ2	C01	3	-0.1	26.5
SME1E021.XLS	01	EQ2	C01	2	-0.1	1.9
SME1E021.XLS	01	EQ2	C01	1	-0.1	-4.2
SME1E021.XLS	01	EQ1	C01	6	2.0	1.9
SME1E021.XLS	01	EQ1	C01	5	-0.1	20.4
SME1E021.XLS	01	EQ1	C01	4	-0.1	1.9

REMAINING RESULTS PRINTED ON NEXT PAGE

NOTES: Activity reported in net dpm/100 cm².
 Underlined values exceed the associated MDA.
 Bold values exceed 100.00 dpm/100 cm² (beta activity) and/or 20.00 dpm/100 cm² (alpha activity).



Maine Yankee Atomic Power Plant Site Characterization

03/29/98

Removable Contamination

Survey Package : A0800 SURFACES & STRUCTURES
 Primary Auxiliary Building - Elevation 36 ft.

RESULTS LISTING - SORTED BY SURFACE CODE

XLS FILE	UNIT	SURFACE	REASON	MSRMNT LOCATION	ALPHA	BETA
SME1E021.XLS	01	EQ1	C01	3	-0.1	1.9
SME1E021.XLS	01	EQ1	C01	2	-0.1	8.1
SME1E021.XLS	01	EQ1	C01	1	-0.1	-4.2
SME1E021.XLS	01	CL1	C01	9	-0.1	1.9
SME1E021.XLS	01	CL1	C01	8	-0.1	14.2
SME1E021.XLS	01	CL1	C01	7	-0.1	8.1
SME1E021.XLS	01	CL1	C01	6	-0.1	1.9
SME1E021.XLS	01	CL1	C01	5	-0.1	8.1
SME1E021.XLS	01	CL1	C01	4	-0.1	1.9
SME1E021.XLS	01	CL1	C01	3	-0.1	1.9
SME1E021.XLS	01	CL1	C01	20	-0.1	8.1
SME1E021.XLS	01	CL1	C01	2	-0.1	8.1
SME1E021.XLS	01	CL1	C01	19	-0.1	8.1
SME1E021.XLS	01	CL1	C01	18	-0.1	1.9
SME1E021.XLS	01	CL1	C01	17	-0.1	14.2
SME1E021.XLS	01	CL1	C01	16	-0.1	1.9
SME1E021.XLS	01	CL1	C01	15	-0.1	8.1
SME1E021.XLS	01	CL1	C01	14	-0.1	-4.2
SME1E021.XLS	01	CL1	C01	13	-0.1	14.2
SME1E021.XLS	01	CL1	C01	12	-0.1	1.9
SME1E021.XLS	01	CL1	C01	11	-0.1	8.1
SME1E021.XLS	01	CL1	C01	10	-0.1	1.9
SME1E021.XLS	01	CL1	C01	1	-0.1	8.1

NOTES: Activity reported in net dpm/100 cm².

Underlined values exceed the associated MDA.

Bold values exceed 100.00 dpm/100 cm² (beta activity) and/or 20.00 dpm/100 cm² (alpha activity).

165 results are listed.



Maine Yankee Atomic Power Plant Site Characterization

DATAFILE & TENNELEC CALIBRATION SUMMARY

03/29/98

Removable Contamination

Survey Package : A0800 SURFACES & STRUCTURES
Primary Auxiliary Building - Elevation 36 ft.

SURVEYDATE	XLS FILE	INST ID	S/N	CAL DUE	LAB TECHNICIAN
2/24/98	SME1E021.XLS	1	15632	8/5/98	JWD

CALIBRATION DATE VERIFIED AS ACCEPTABLE



Maine Yankee Atomic Power Plant Site Characterization

03/29/98

Exposure Rate Measurements

Survey Package A0800 SURFACES & STRUCTURES
 Primary Auxiliary Building - Elevation 36 ft.

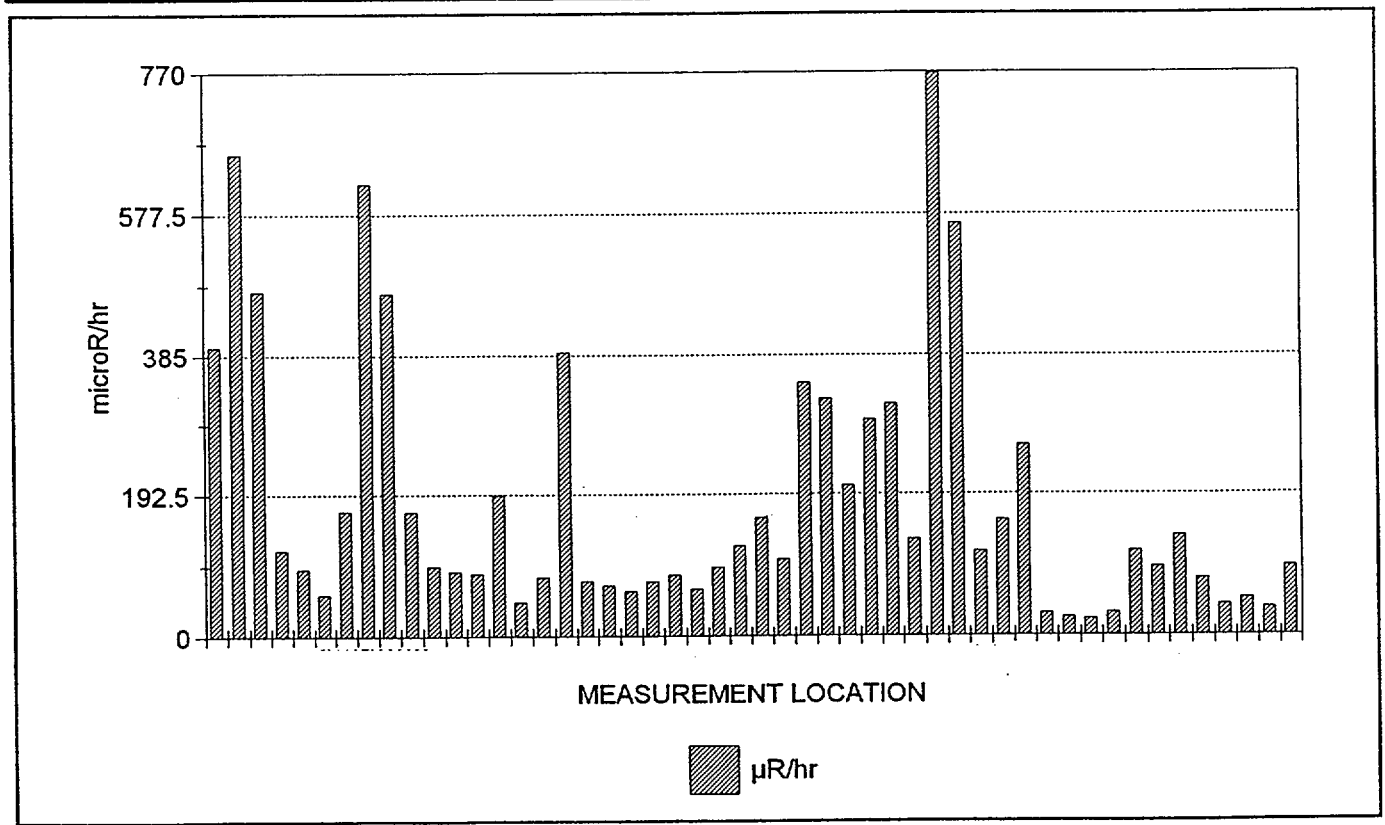
STATISTICAL SUMMARY

TESTS PERFORMED

	$\mu\text{R/hr}$
Mean	187.0
Maximum	768.6
Minimum	22.3
Standard Deviation	181.6

Samples reported satisfy samples prescribed	YES
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Samples Reported	50
Samples Prescribed	50



50 RESULTS ARE GRAPHED



Maine Yankee Atomic Power Plant Site Characterization

03/29/98

Exposure Rate Measurements

Survey Package : A0800 SURFACES & STRUCTURES
 Primary Auxiliary Building - Elevation 36 ft.

RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	RESULT
469 (2)	01	FL1	B0001	C01	60.00	00001	396.7
469 (2)	01	FL1	B0001	C01	60.00	00002	659.1
469 (2)	01	FL1	B0001	C01	60.00	00003	473.2
469 (2)	01	FL1	B0001	C01	60.00	00004	117.3
469 (2)	01	FL1	B0001	C01	60.00	00005	92.3
469 (2)	01	FL1	B0001	C01	60.00	00006	57.0
469 (2)	01	FL1	B0001	C01	60.00	00007	169.9
469 (2)	01	FL1	B0001	C01	60.00	00008	618.7
469 (2)	01	FL1	B0001	C01	60.00	00009	470.1
469 (2)	01	FL1	B0001	C01	60.00	00010	169.4
469 (2)	01	FL1	B0001	C01	60.00	00011	95.7
469 (2)	01	FL1	B0001	C01	60.00	00012	88.9
469 (2)	01	FL1	B0001	C01	60.00	00013	85.9
469 (2)	01	FL1	B0001	C01	60.00	00014	192.3
469 (2)	01	FL1	B0001	C01	60.00	00015	46.8
469 (2)	01	FL1	B0001	C01	60.00	00016	81.1
469 (2)	01	FL1	B0001	C01	60.00	00017	388.5
469 (2)	01	FL1	B0001	C01	60.00	00018	75.6
469 (2)	01	FL1	B0001	C01	60.00	00019	69.8
469 (2)	01	FL1	B0001	C01	60.00	00020	62.1
469 (2)	01	FL1	B0001	C01	60.00	00021	74.8
469 (2)	01	FL1	B0001	C01	60.00	00022	83.8
469 (2)	01	FL1	B0001	C01	60.00	00023	64.0
469 (2)	01	FL1	B0001	C01	60.00	00024	93.9
469 (2)	01	FL1	B0001	C01	60.00	00025	122.7
469 (2)	01	FL1	B0001	C01	60.00	00026	160.9
469 (2)	01	FL1	B0001	C01	60.00	00027	104.3
469 (2)	01	FL1	B0001	C01	60.00	00028	346.1
469 (2)	01	FL1	B0001	C01	60.00	00029	323.6
469 (2)	01	FL1	B0001	C01	60.00	00030	204.2
469 (2)	01	FL1	B0001	C01	60.00	00031	294.8
469 (2)	01	FL1	B0001	C01	60.00	00032	316.6
469 (2)	01	FL1	B0001	C01	60.00	00033	131.4
469 (2)	01	FL1	B0001	C01	60.00	00034	768.6
469 (2)	01	FL1	B0001	C01	60.00	00035	564.5
469 (2)	01	FL1	B0001	C01	60.00	00036	114.4
469 (2)	01	FL1	B0001	C01	60.00	00037	157.0
469 (2)	01	FL1	B0001	C01	60.00	00038	259.8
469 (2)	01	FL1	B0001	C01	60.00	00039	30.3
469 (2)	01	FL1	B0001	C01	60.00	00040	25.4

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

03/29/98

Exposure Rate Measurements

Survey Package : A0800 SURFACES & STRUCTURES
 Primary Auxiliary Building - Elevation 36 ft.

RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	RESULT
469 (2)	01	FL1	B0001	C01	60.00	00041	<u>22.2</u>
469 (2)	01	FL1	B0001	C01	60.00	00042	<u>31.2</u>
469 (2)	01	FL1	B0001	C01	60.00	00043	114.4
469 (2)	01	FL1	B0001	C01	60.00	00044	93.1
469 (2)	01	FL1	B0001	C01	60.00	00045	135.8
469 (2)	01	FL1	B0001	C01	60.00	00046	77.1
469 (2)	01	FL1	B0001	C01	60.00	00047	41.3
469 (2)	01	FL1	B0001	C01	60.00	00048	50.2
469 (2)	01	FL1	B0001	C01	60.00	00049	37.5
469 (2)	01	FL1	B0001	C01	60.00	00050	93.6

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 $\mu\text{R/hr}$.
 50 results are listed.



Maine Yankee Atomic Power Plant Site Characterization

DOWNLOAD FILE & SURVEY INSTRUMENTATION CALIBRATION SUMMARY

03/29/98

Exposure Rate Measurements

Survey Package : A0800 SURFACES & STRUCTURES
 Primary Auxiliary Building - Elevation 36 ft.

SURVEY DATE	FILE #	M2350		DETECTOR			TECHNICIAN
		INST S/N	CAL DUE	MODEL	S/N	CAL DUE	
1/22/98	469 (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

04/02/98

SURVEY PACKAGE NUMBER A0900

SURFACES & STRUCTURES

PACKAGE DESCRIPTION

Service Building Hot Side - Elevation 21 ft.

SURVEY AREA DESCRIPTION

Service Building Hot Side

 GENERAL HISTORICAL INFORMATION (Operational history, etc.)

The Service Building Hot Side was constructed in 1968. Due to a leak in the overhead, the ceiling tiles were disposed of as radioactive waste. Most spaces are posted as Radioactive Material Areas. Meter calibration and issue rooms are posted Radiation Areas due to calibration sources. Chemistry laboratory, Respirator Issue Room and RCP seal rebuild room are posted Contaminated Areas. Radiation Area and Contaminated Area in Hot Machine Shop. The north-south hallway has cabinets for storage of flammables, corrosives, chemicals and radioactive materials. The structure has painted epoxied floors, painted concrete block walls, and painted concrete and steel ceilings. Ceilings are dropped in some areas with acoustic tile.

 SUMMARY OF CHARACTERIZATION ACTIVITIES

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

Collected 125 direct measurements for total beta activity at the survey measurement locations indicated in the results listing report. Due to elevated background radioactivity in the survey area, a scan of a two meter area encompassing each survey measurement location was not performed. Each direct measurement for total beta activity was accompanied by a corresponding background measurement at the same location. The background was used in the calculation of net dpm/100cm².

Collected smear samples to analyze for removable alpha and beta activity at 124 of the survey locations of the direct measurements for total beta activity.

Collected one meter exposure rate measurements at 46 survey locations indicated in the results listing report.

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 SUMMARY

04/02/98

CHARACTERIZATION SURVEY RESULTS

- o There were 12 direct measurements for total beta activity above 2000 dpm/100cm². There were 25 direct measurements for total beta activity above the individual measurements' MDA (Maximum MDA was 1,970 dpm/100cm²). The maximum measurement result was 18,955 dpm/100cm².
- o There were 6 measurements for removable beta activity above MDA (34 dpm/100cm²) and 2 results greater than 100 dpm/100cm². The maximum measurement result was 251 dpm/100cm².
- o There were no measurements for removable alpha activity above MDA (8 dpm/100cm²).
- o The average and maximum exposure rate measurement results were 41.5 µR/hr and 501 µR/hr, respectively.

REFERENCES (Documents, Interviews)



Maine Yankee Atomic Power Plant Site Characterization

SUMMARY OF SURVEY UNIT(S)

OUTPUT BATCH SN = 368

03/31/98

PACKAGE A0900 SURFACES & STRUCTURES
Service Building Hot Side - Elevation 21 ft.

UNIT(S)	SURFACE(S)
01 - Hallway	CL1 (Ceiling) EQ1 (Refrigerator) FL1 (Floor) WS1 (Wall)
02 - RP Checkpoint and Instrumentation Office Spaces	CL1 (Ceiling) FL1 (Floor) WS1 (Wall)
03 - Chemistry Laboratory	CL1 (Ceiling) EQ1 (Fume hood) EQ2 (Cabinets and counter top) FL1 (Floor) WS1 (Wall)
04 - Dress Out Room	CL1 (Ceiling) FL1 (Floor) WS1 (Wall)
05 - Hot Shop	CL1 (Ceiling) EQ1 (Work table) EQ2 (Drill press) EQ3 (Metal lathe) EQ4 (Over head crane) EQ5 (Air vent) EQ6 (Roll up door) FL1 (Floor) WS1 (Wall)
06 - Tool Room	EQ1 (Metal cabinet) FL1 (Floor) WS1 (Wall)
07 - MOVAT Room	EQ1 (Air duct) FL1 (Floor) WS1 (Wall)
08 - Seal Rebuild Room	FL1 (Floor) WS1 (Wall)

REASON(S) CHARACTERIZATION SURVEY (C01)

Maine Yankee Atomic Power Plant - Site Characterization Survey
SUMMARY OF SURVEY UNIT(S)

OUTPUT BATCH SN = 368

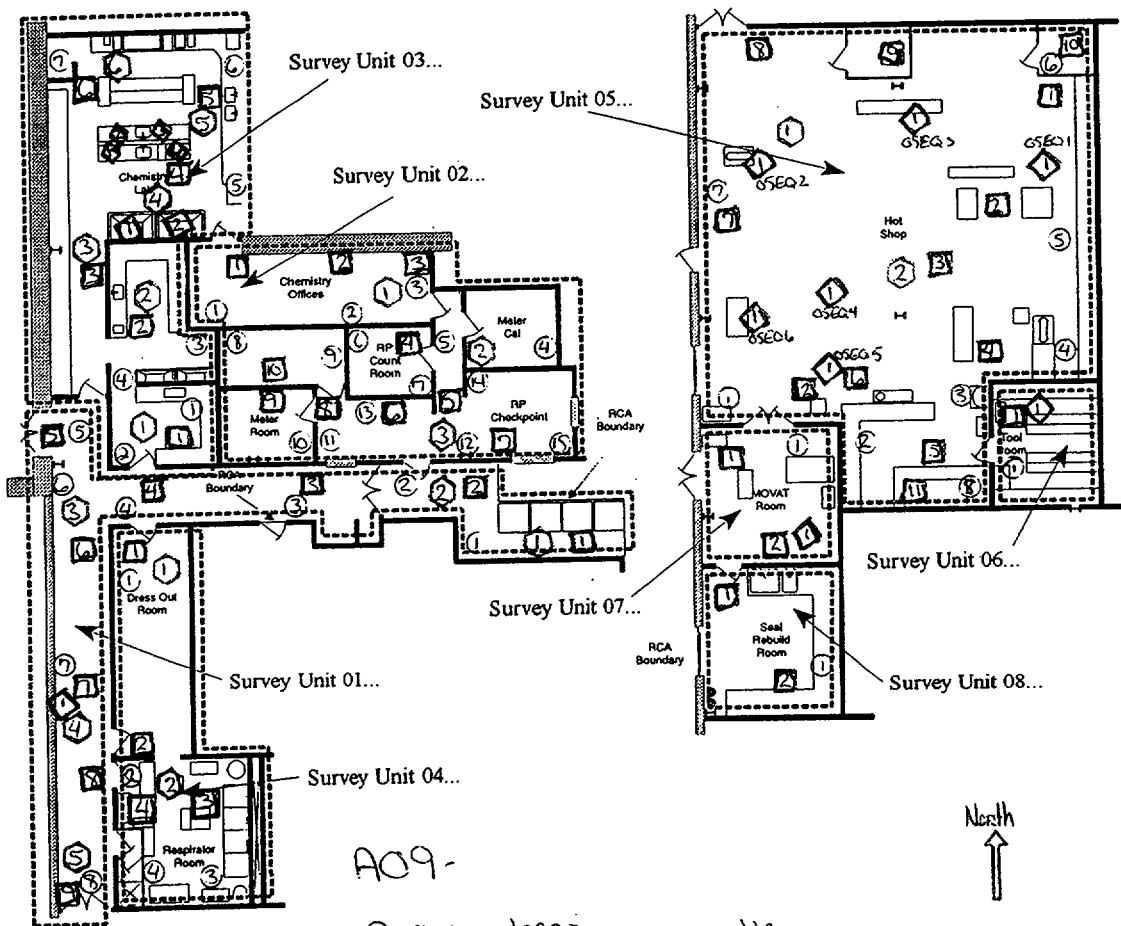
03/31/98

MATERIALS	MAT'L CODE	MATERIAL DESCRIPTION	BETA BKGD (dpm/100 cm ²)
	B0001	CONCRETE - PAINTED (INTERIOR)	478.0
	B0003	CINDER BLOCK - PAINTED (INTERIOR)	478.0
	B0026	VINYL TILE (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
	B9999	OTHER	0.0

Maine Yankee Atomic Power Plant Site Characterization

SURVEY PACKAGE A0900

Service Building Hot Side 21 ft
Survey Units



A09-

- ⊙ - survey locations on walls
- ⊠ - survey locations on floors
- ⬡ - survey locations on ceilings
- ◇ - survey locations on equipment





Maine Yankee Atomic Power Plant Site Characterization

04/01/98

Direct Measurements For Total Beta Activity

Survey Package A0900 SURFACES & STRUCTURES
 Service Building Hot Side - Elevation 21 ft.

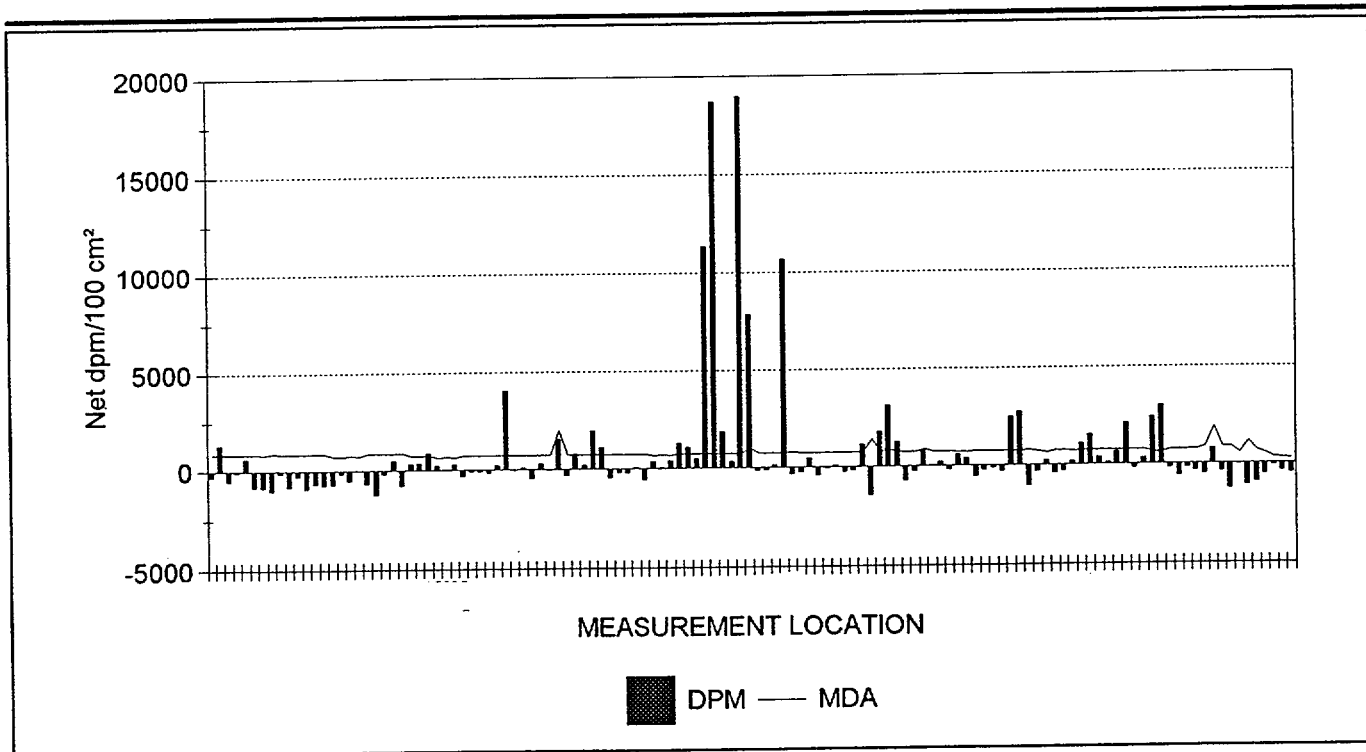
STATISTICAL SUMMARY

TESTS PERFORMED

	Net dpm/100 cm ²
Mean	699.0
Maximum	18,955.0
Minimum	-1,436.7
Standard Deviation	2,927.8
MDA	1,969.8

Samples reported satisfy samples prescribed	YES
MDA <2000 net dpm/100 cm ²	YES
Results above 2000 net dpm/100 cm ²	12
Number of results above MDA	25

Samples Reported	125
Samples Prescribed	123



125 RESULTS ARE GRAPHED



Maine Yankee Atomic Power Plant Site Characterization

04/01/98

Direct Measurements For Total Beta Activity

Survey Package : A0900 SURFACES & STRUCTURES
 Service Building Hot Side - Elevation 21 ft.

RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	MDA	RESULT
425 (2)	01	CL1	B0033	C01	10	00001	864.3	-269.6
425 (2)	01	CL1	B0033	C01	10	00002	864.3	<u>1,328.8</u>
425 (2)	01	CL1	B0036	C01	10	00003	864.3	-520.7
425 (2)	01	CL1	B0036	C01	10	00004	851.4	-38.1
425 (2)	01	CL1	B0036	C01	10	00005	860.3	643.1
425 (2)	01	EQ1	B0036	C01	10	00001	864.3	-794.7
425 (2)	01	FL1	B0001	C01	10	00001	828.1	-847.1
425 (2)	01	FL1	B0001	C01	10	00002	906.4	-1,010.8
425 (2)	01	FL1	B0001	C01	10	00003	860.3	-108.9
425 (2)	01	FL1	B0001	C01	10	00004	864.3	-793.2
425 (2)	01	FL1	B0001	C01	10	00005	864.3	-290.9
425 (2)	01	FL1	B0001	C01	10	00006	864.3	-907.4
425 (2)	01	FL1	B0001	C01	10	00007	864.3	-656.2
425 (2)	01	FL1	B0001	C01	10	00008	864.3	-724.7
448 (2)	01	FL1	B0001	C01	10	00009	731.2	-707.7
428 (2)	01	WS1	B0001	C01	10	00001	714.0	-155.4
428 (2)	01	WS1	B0001	C01	10	00002	772.6	-504.3
428 (2)	01	WS1	B0001	C01	10	00003	738.9	-1.6
428 (2)	01	WS1	B0001	C01	10	00004	860.9	-658.6
428 (2)	01	WS1	B0001	C01	10	00005	860.9	-1,221.3
428 (2)	01	WS1	B0036	C01	10	00006	860.9	-180.6
428 (2)	01	WS1	B0036	C01	10	00007	860.9	517.1
428 (2)	01	WS1	B0036	C01	10	00008	860.9	-765.8
448 (2)	02	CL1	B0033	C01	10	00001	731.2	329.1
448 (2)	02	CL1	B0033	C01	10	00002	731.2	373.8
448 (2)	02	CL1	B0033	C01	10	00003	731.2	<u>865.5</u>
448 (2)	02	FL1	B0026	C01	10	00001	646.1	238.4
448 (2)	02	FL1	B0026	C01	10	00002	664.6	48.4
448 (2)	02	FL1	B0026	C01	10	00003	627.8	312.9
448 (2)	02	FL1	B0026	C01	10	00004	731.2	-319.1
448 (2)	02	FL1	B0026	C01	10	00005	731.2	-95.6
448 (2)	02	FL1	B0026	C01	10	00006	731.2	-73.3
448 (2)	02	FL1	B0026	C01	10	00007	731.2	-162.7
448 (2)	02	FL1	B0026	C01	10	00008	731.2	239.7
448 (2)	02	FL1	B0026	C01	10	00009	731.2	<u>4,039.5</u>
448 (2)	02	FL1	B0026	C01	10	00010	731.2	-28.6
449 (2)	02	WS1	B0003	C01	10	00001	721.6	108.2
449 (2)	02	WS1	B0003	C01	10	00002	721.6	-442.3
449 (2)	02	WS1	B0003	C01	10	00004	721.6	291.8
449 (2)	02	WS1	B0003	C01	10	00005	721.6	-29.4

NOTES: Activity reported in net dpm/100 cm². Count times are reported in seconds.
 Underlined values exceed the MDA.
 Bold values exceed 2000 dpm/100 cm².

Maine Yankee Atomic Power Plant Site Characterization

04/01/98

Direct Measurements For Total Beta Activity

Survey Package : A0900 SURFACES & STRUCTURES
 Service Building Hot Side - Elevation 21 ft.

RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	MDA	RESULT
669 (2)	02	WS1	B0003	C01	60	00006	1,969.8	1,516.8
449 (2)	02	WS1	B0003	C01	10	00007	721.6	-327.6
449 (2)	02	WS1	B0003	C01	10	00008	721.6	<u>773.5</u>
449 (2)	02	WS1	B0003	C01	10	00009	721.6	200.0
449 (2)	02	WS1	B0003	C01	10	00010	721.6	<u>1,920.5</u>
449 (2)	02	WS1	B0003	C01	10	00011	721.6	<u>1,071.7</u>
449 (2)	02	WS1	B0003	C01	10	00012	721.6	-442.3
449 (2)	02	WS1	B0003	C01	10	00013	721.6	-167.0
449 (2)	02	WS1	B0003	C01	10	00014	721.6	-212.9
449 (2)	02	WS1	B0003	C01	10	00015	721.6	85.3
449 (2)	02	WS1	B0036	C01	10	00003	721.6	-583.7
438 (2)	03	CL1	B0033	C01	10	00001	665.4	378.0
438 (2)	03	CL1	B0033	C01	10	00002	699.2	50.4
438 (2)	03	CL1	B0033	C01	10	00003	675.8	417.6
438 (2)	03	CL1	B0033	C01	10	00004	713.5	<u>1,257.1</u>
438 (2)	03	CL1	B0033	C01	10	00005	713.5	<u>1,041.0</u>
438 (2)	03	CL1	B0033	C01	10	00006	713.5	501.0
435 (2)	03	EQ1	B0031	C01	10	00001	729.8	<u>11,371.1</u>
435 (2)	03	EQ1	B0031	C01	10	00002	729.8	<u>18,711.1</u>
435 (2)	03	EQ2	B0036	C01	10	00002	729.8	<u>1,835.6</u>
435 (2)	03	EQ2	B0036	C01	10	00003	729.8	349.9
435 (2)	03	EQ2	B9999	C01	10	00001	729.8	<u>18,955.0</u>
435 (2)	03	EQ2	B9999	C01	10	00004	983.0	<u>7,868.6</u>
438 (2)	03	FL1	B0026	C01	10	00001	713.5	-147.0
438 (2)	03	FL1	B0026	C01	10	00002	713.5	-103.8
438 (2)	03	FL1	B0026	C01	10	00003	713.5	133.8
438 (2)	03	FL1	B0026	C01	10	00004	756.5	<u>10,678.1</u>
438 (2)	03	FL1	B0026	C01	10	00005	745.8	-349.2
438 (2)	03	FL1	B0026	C01	10	00006	732.8	-241.2
449 (2)	03	WS1	B0001	C01	10	00005	721.6	475.3
449 (2)	03	WS1	B0001	C01	10	00006	721.6	-419.4
449 (2)	03	WS1	B0001	C01	10	00007	721.6	-52.3
449 (2)	03	WS1	B0003	C01	10	00001	721.6	62.4
449 (2)	03	WS1	B0003	C01	10	00002	721.6	-235.9
449 (2)	03	WS1	B0003	C01	10	00003	721.6	-190.0
449 (2)	03	WS1	B0003	C01	10	00004	721.6	<u>1,117.6</u>
428 (2)	04	CL1	B0033	C01	10	00001	1,369.9	-1,436.7
449 (2)	04	CL1	B0033	C01	10	00002	721.6	<u>1,756.2</u>
428 (2)	04	FL1	B0001	C01	10	00001	860.9	<u>3,145.0</u>
448 (2)	04	FL1	B0001	C01	10	00002	731.2	<u>1,214.6</u>

NOTES: Activity reported in net dpm/100 cm². Count times are reported in seconds.
 Underlined values exceed the MDA.
 Bold values exceed 2000 dpm/100 cm².



Maine Yankee Atomic Power Plant Site Characterization

04/01/98

Direct Measurements For Total Beta Activity

Survey Package : A0900 SURFACES & STRUCTURES
 Service Building Hot Side - Elevation 21 ft.

RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	MDA	RESULT
448 (2)	04	FL1	B0001	C01	10	00003	731.2	-730.1
448 (2)	04	FL1	B0001	C01	10	00004	731.2	-260.7
428 (2)	04	WS1	B0001	C01	10	00001	860.9	781.8
449 (2)	04	WS1	B0003	C01	10	00002	721.6	39.4
449 (2)	04	WS1	B0003	C01	10	00003	721.6	200.0
449 (2)	04	WS1	B0035	C01	10	00004	721.6	-170.8
429 (2)	05	CL1	B0036	C01	10	00001	703.1	572.4
429 (2)	05	CL1	B0036	C01	10	00002	681.4	370.8
435 (2)	05	EQ1	B0031	C01	10	00001	729.8	-537.1
435 (2)	05	EQ2	B0036	C01	10	00001	729.8	-204.5
435 (2)	05	EQ3	B0036	C01	10	00001	729.8	-115.8
435 (2)	05	EQ4	B0036	C01	10	00001	729.8	-293.2
435 (2)	05	EQ5	B0036	C01	10	00001	729.8	<u>2,478.7</u>
435 (2)	05	EQ6	B0036	C01	10	00001	729.8	<u>2,744.8</u>
429 (2)	05	FL1	B0001	C01	10	00001	762.1	-1,018.0
429 (2)	05	FL1	B0001	C01	10	00002	681.4	-301.6
449 (2)	05	FL1	B0001	C01	10	00003	644.3	233.1
429 (2)	05	FL1	B0001	C01	10	00004	721.1	-424.0
429 (2)	05	FL1	B0001	C01	10	00005	730.7	-319.6
429 (2)	05	FL1	B0001	C01	10	00006	699.2	177.2
435 (2)	05	FL1	B0001	C01	10	00007	729.8	<u>1,069.4</u>
435 (2)	05	FL1	B0001	C01	10	00008	729.8	<u>1,512.9</u>

REMAINING RESULTS PRINTED ON NEXT PAGE

NOTES: Activity reported in net dpm/100 cm². Count times are reported in seconds.
 Underlined values exceed the MDA.
 Bold values exceed 2000 dpm/100 cm².



Maine Yankee Atomic Power Plant Site Characterization

04/01/98

Direct Measurements For Total Beta Activity

Survey Package : A0900 SURFACES & STRUCTURES
Service Building Hot Side - Elevation 21 ft.

RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	MDA	RESULT
435 (2)	05	FL1	B0001	C01	10	00009	729.8	359.7
435 (2)	05	FL1	B0001	C01	10	00010	729.8	115.8
448 (2)	05	FL1	B0001	C01	10	00011	731.2	633.4
448 (2)	05	FL1	B0001	C01	10	00012	731.2	<u>2,108.6</u>
435 (2)	05	WS1	B0001	C01	10	00005	729.8	-172.5
435 (2)	05	WS1	B0001	C01	10	00006	729.8	315.4
435 (2)	05	WS1	B0003	C01	10	00001	592.6	<u>2,434.4</u>
435 (2)	05	WS1	B0003	C01	10	00002	608.9	<u>3,014.6</u>
435 (2)	05	WS1	B0003	C01	10	00003	741.8	-186.0
435 (2)	05	WS1	B0003	C01	10	00004	729.8	-593.8
435 (2)	05	WS1	B0003	C01	10	00008	729.8	-172.5
435 (2)	05	WS1	B0036	C01	10	00007	729.8	-359.7
428 (2)	06	EQ1	B0031	C01	10	00001	860.9	-518.2
669 (2)	06	FL1	B0001	C01	60	00001	1,885.5	754.1
428 (2)	06	WS1	B0001	C01	10	00001	860.9	-388.5
428 (2)	06	WS1	B0001	C01	10	00001	860.9	-1,243.8
452 (2)	07	EQ1	B0036	C01	60	00001	519.7	-21.4
452 (2)	07	FL1	B0001	C01	60	00001	1,134.6	-1,084.6
452 (2)	07	FL1	B0001	C01	60	00002	674.3	-927.6
452 (2)	07	WS1	B0003	C01	60	00001	502.8	-542.2
452 (2)	08	FL1	B0001	C01	60	00001	295.2	-99.7
452 (2)	08	FL1	B0001	C01	60	00002	278.7	-392.4
452 (2)	08	WS1	B0003	C01	60	00001	244.6	-463.7

NOTES: Activity reported in net dpm/100 cm². Count times are reported in seconds.
Underlined values exceed the MDA.
Bold values exceed 2000 dpm/100 cm².
125 results are listed.



Maine Yankee Atomic Power Plant Site Characterization

DOWNLOAD FILE & SURVEY INSTRUMENTATION CALIBRATION SUMMARY

04/01/98

Direct Measurements For Total Beta Activity

Survey Package : A0900 SURFACES & STRUCTURES
Service Building Hot Side - Elevation 21 ft.

SURVEY DATE	FILE #	M2350		DETECTOR			PRE EFF	TECHNICIAN
		INST S/N	CAL DUE	MODEL	S/N	CAL DUE		
1/16/98	425 (2)	129433	6/10/98	43-106	133864	6/5/98	.21	MEW9813
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
1/16/98	428 (2)	126170	6/10/98	43-106	133878	6/8/98	.21	MBK5187
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
1/19/98	429 (2)	129433	6/10/98	43-106	133864	6/5/98	.22	MEW9813
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
1/19/98	435 (2)	126170	6/10/98	43-106	133878	6/8/98	.21	MBK5187
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
1/19/98	438 (2)	129433	6/10/98	43-106	133864	6/5/98	.22	MEW9813
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
1/20/98	448 (2)	129433	6/10/98	43-106	133864	6/5/98	.21	MEW9813
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
1/20/98	449 (2)	126170	6/10/98	43-106	133878	6/8/98	.21	MBK5187
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
1/21/98	452 (2)	129433	6/10/98	44-40	091051	4/29/98	.11	MEW9813
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
3/19/98	669 (2)	126201	4/15/98	44-40	119455	4/29/98	.11	BSM0490
CALIBRATION DATES VERIFIED AS ACCEPTABLE								



Maine Yankee Atomic Power Plant Site Characterization

03/29/98

Removable Contamination - Gross Beta Activity

Survey Package A0900 SURFACES & STRUCTURES
 Service Building Hot Side - Elevation 21 ft.

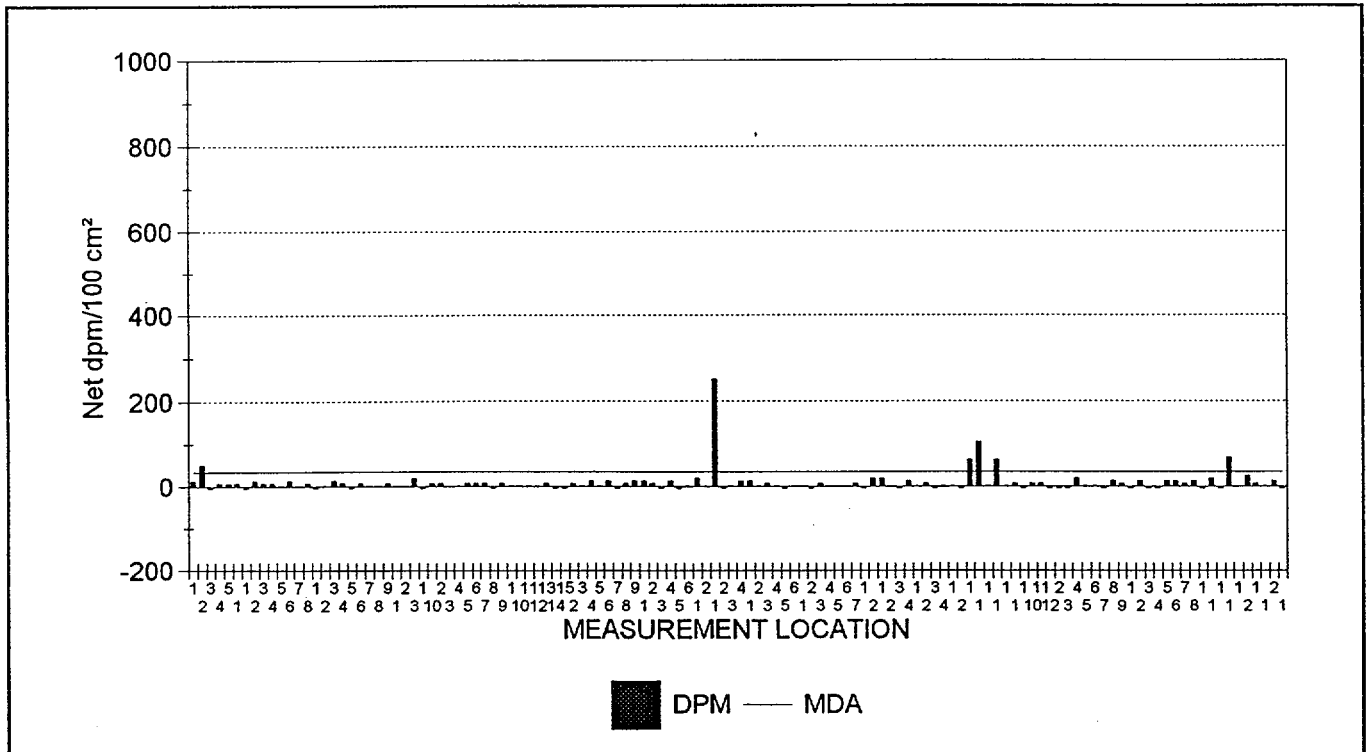
STATISTICAL SUMMARY

	Net dpm/100 cm ²
Mean	9.2
Maximum	250.8
Minimum	-4.5
Standard Deviation	26.6
MDA	33.7

Samples Reported	124
Samples Prescribed	123

TESTS PERFORMED

MDA < 100 net dpm/100 cm ²	YES
Results above 100 net dpm/100 cm ²	2
Number of results above MDA	6



124 RESULTS ARE GRAPHED



Maine Yankee Atomic Power Plant Site Characterization

03/29/98

Removable Contamination - Gross Alpha Activity

Survey Package A0900 SURFACES & STRUCTURES
 Service Building Hot Side - Elevation 21 ft.

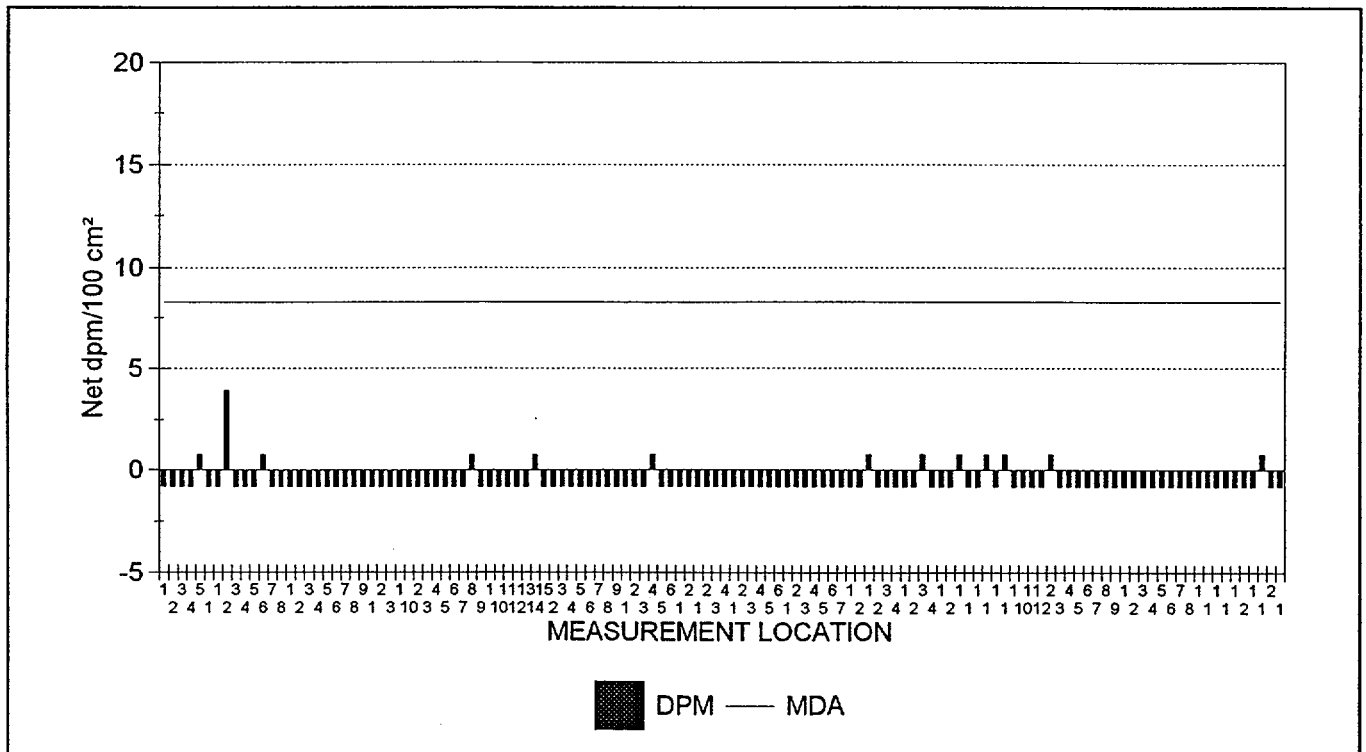
STATISTICAL SUMMARY

TESTS PERFORMED

	Net dpm/100 cm ²
Mean	-0.6
Maximum	3.9
Minimum	-0.9
Standard Deviation	0.6
MDA	8.2

MDA <10 net dpm/100 cm ²	YES
Results above 20 net dpm/100 cm ²	0
Number of results above MDA	0

Samples Reported	124
Samples Prescribed	123



124 RESULTS ARE GRAPHED

Maine Yankee Atomic Power Plant Site Characterization

03/29/98

Removable Contamination

Survey Package : A0900 SURFACES & STRUCTURES
 Service Building Hot Side - Elevation 21 ft.

RESULTS LISTING - SORTED BY SURFACE CODE

XLS FILE	UNIT	SURFACE	REASON	MSRMNT LOCATION	ALPHA	BETA
SME1E038.XLS	08	WS1	C01	1	-0.8	-4.5
SME1E038.XLS	08	FL1	C01	2	-0.8	13.8
SME1E038.XLS	08	FL1	C01	1	0.7	1.6
SME1E038.XLS	07	WS1	C01	1	-0.8	7.7
SME1E038.XLS	07	FL1	C01	2	-0.8	25.9
SME1E038.XLS	07	FL1	C01	1	-0.8	1.6
SME1E038.XLS	07	EQ1	C01	1	-0.8	68.5
SME1E038.XLS	06	WS1	C01	1	-0.8	-4.5
SME1E038.XLS	06	FL1	C01	1	-0.8	19.9
SME1E038.XLS	06	EQ1	C01	1	-0.8	-4.5
SME1E038.XLS	05	WS1	C01	8	-0.8	13.8
SME1E038.XLS	05	WS1	C01	7	-0.8	7.7
SME1E038.XLS	05	WS1	C01	6	-0.8	13.8
SME1E038.XLS	05	WS1	C01	5	-0.8	13.8
SME1E038.XLS	05	WS1	C01	4	-0.8	-4.5
SME1E038.XLS	05	WS1	C01	3	-0.8	-4.5
SME1E038.XLS	05	WS1	C01	2	-0.8	13.8
SME1E038.XLS	05	WS1	C01	1	-0.8	-4.5
SME1E038.XLS	05	FL1	C01	9	-0.8	7.7
SME1E038.XLS	05	FL1	C01	8	-0.8	13.8
SME1E038.XLS	05	FL1	C01	7	-0.8	-4.5
SME1E038.XLS	05	FL1	C01	6	-0.8	1.6
SME1E038.XLS	05	FL1	C01	5	-0.8	1.6
SME1E038.XLS	05	FL1	C01	4	-0.8	19.9
SME1E038.XLS	05	FL1	C01	3	-0.8	-4.5
SME1E038.XLS	05	FL1	C01	2	0.7	-4.5
SME1E038.XLS	05	FL1	C01	12	-0.8	-4.5
SME1E038.XLS	05	FL1	C01	11	-0.8	7.7
SME1E038.XLS	05	FL1	C01	10	-0.8	7.7
SME1E038.XLS	05	FL1	C01	1	-0.8	-4.5
SME1E038.XLS	05	EQ6	C01	1	0.7	7.7
SME1E038.XLS	05	EQ5	C01	1	-0.8	1.6
SME1E038.XLS	05	EQ4	C01	1	0.7	62.4
SME1E038.XLS	05	EQ3	C01	1	-0.8	1.6
SME1E038.XLS	05	EQ2	C01	1	-0.8	<u>104.9</u>
SME1E038.XLS	05	EQ1	C01	1	0.7	62.4
SME1E038.XLS	05	CL1	C01	2	-0.8	-4.5
SME1E038.XLS	05	CL1	C01	1	-0.8	1.6
SME1E038.XLS	04	WS1	C01	4	-0.8	1.6
SME1E038.XLS	04	WS1	C01	3	0.7	-4.5

NOTES: Activity reported in net dpm/100 cm².

Underlined values exceed the associated MDA.

Bold values exceed 100.00 dpm/100 cm² (beta activity) and/or 20.00 dpm/100 cm² (alpha activity).

Maine Yankee Atomic Power Plant Site Characterization

03/29/98

Removable Contamination

Survey Package : A0900 SURFACES & STRUCTURES
 Service Building Hot Side - Elevation 21 ft.

RESULTS LISTING - SORTED BY SURFACE CODE

XLS FILE	UNIT	SURFACE	REASON	MSRMNT LOCATION	ALPHA	BETA
SME1E038.XLS	04	WS1	C01	2	-0.8	7.7
SME1E038.XLS	04	WS1	C01	1	-0.8	1.6
SME1E038.XLS	04	FL1	C01	4	-0.8	13.8
SME1E038.XLS	04	FL1	C01	3	-0.8	-4.5
SME1E038.XLS	04	FL1	C01	2	-0.8	1.6
SME1E038.XLS	04	FL1	C01	1	0.7	19.9
SME1E038.XLS	04	CL1	C01	2	-0.8	19.9
SME1E038.XLS	04	CL1	C01	1	-0.8	-4.5
SME1E038.XLS	03	WS1	C01	7	-0.8	7.7
SME1E038.XLS	03	WS1	C01	6	-0.8	1.6
SME1E038.XLS	03	WS1	C01	5	-0.8	1.6
SME1E038.XLS	03	WS1	C01	4	-0.8	1.6
SME1E038.XLS	03	WS1	C01	3	-0.8	7.7
SME1E038.XLS	03	WS1	C01	2	-0.8	-4.5
SME1E038.XLS	03	WS1	C01	1	-0.8	1.6
SME1E038.XLS	03	FL1	C01	6	-0.8	1.6
SME1E038.XLS	03	FL1	C01	5	-0.8	-4.5
SME1E038.XLS	03	FL1	C01	4	-0.8	1.6
SME1E038.XLS	03	FL1	C01	3	-0.8	7.7
SME1E038.XLS	03	FL1	C01	2	-0.8	1.6
SME1E038.XLS	03	FL1	C01	1	-0.8	13.8
SME1E038.XLS	03	EQ2	C01	4	-0.8	13.8
SME1E038.XLS	03	EQ2	C01	3	-0.8	1.6
SME1E038.XLS	03	EQ2	C01	2	-0.8	-4.5
SME1E038.XLS	03	EQ2	C01	1	-0.8	<u>250.8</u>
SME1E038.XLS	03	EQ1	C01	2	-0.8	1.6
SME1E038.XLS	03	EQ1	C01	1	-0.8	19.9
SME1E038.XLS	03	CL1	C01	6	-0.8	1.6
SME1E038.XLS	03	CL1	C01	5	-0.8	-4.5
SME1E038.XLS	03	CL1	C01	4	0.7	13.8
SME1E038.XLS	03	CL1	C01	3	-0.8	-4.5
SME1E038.XLS	03	CL1	C01	2	-0.8	7.7
SME1E038.XLS	03	CL1	C01	1	-0.8	13.8
SME1E038.XLS	02	WS1	C01	9	-0.8	13.8
SME1E038.XLS	02	WS1	C01	8	-0.8	7.7
SME1E038.XLS	02	WS1	C01	7	-0.8	-4.5
SME1E038.XLS	02	WS1	C01	6	-0.8	13.8
SME1E038.XLS	02	WS1	C01	5	-0.8	1.6
SME1E038.XLS	02	WS1	C01	4	-0.8	13.8
SME1E038.XLS	02	WS1	C01	3	-0.8	1.6

NOTES: Activity reported in net dpm/100 cm².

Underlined values exceed the associated MDA.

Bold values exceed 100.00 dpm/100 cm² (beta activity) and/or 20.00 dpm/100 cm² (alpha activity).



Maine Yankee Atomic Power Plant Site Characterization

03/29/98

Removable Contamination

Survey Package : A0900 SURFACES & STRUCTURES
 Service Building Hot Side - Elevation 21 ft.

RESULTS LISTING - SORTED BY SURFACE CODE

XLS FILE	UNIT	SURFACE	REASON	MSRMNT LOCATION	ALPHA	BETA
SME1E038.XLS	02	WS1	C01	2	-0.8	7.7
SME1E038.XLS	02	WS1	C01	15	-0.8	-4.5
SME1E038.XLS	02	WS1	C01	14	0.7	-4.5
SME1E038.XLS	02	WS1	C01	13	-0.8	7.7
SME1E038.XLS	02	WS1	C01	12	-0.8	1.6
SME1E038.XLS	02	WS1	C01	11	-0.8	1.6
SME1E038.XLS	02	WS1	C01	10	-0.8	1.6
SME1E038.XLS	02	WS1	C01	1	-0.8	1.6
SME1E038.XLS	02	FL1	C01	9	-0.8	7.7
SME1E038.XLS	02	FL1	C01	8	0.7	-4.5
SME1E038.XLS	02	FL1	C01	7	-0.8	7.7
SME1E038.XLS	02	FL1	C01	6	-0.8	7.7
SME1E038.XLS	02	FL1	C01	5	-0.8	7.7
SME1E038.XLS	02	FL1	C01	4	-0.8	1.6
SME1E038.XLS	02	FL1	C01	3	-0.8	1.6
SME1E038.XLS	02	FL1	C01	2	-0.8	7.7
SME1E038.XLS	02	FL1	C01	10	-0.8	7.7
SME1E038.XLS	02	FL1	C01	1	-0.8	-4.5
SME1E038.XLS	02	CL1	C01	3	-0.8	19.9
SME1E038.XLS	02	CL1	C01	2	-0.8	1.6
SME1E038.XLS	02	CL1	C01	1	-0.8	1.6
SME1E038.XLS	01	WS1	C01	9	-0.8	7.7

REMAINING RESULTS PRINTED ON NEXT PAGE

NOTES: Activity reported in net dpm/100 cm².
 Underlined values exceed the associated MDA.
 Bold values exceed 100.00 dpm/100 cm² (beta activity) and/or 20.00 dpm/100 cm² (alpha activity).



Maine Yankee Atomic Power Plant Site Characterization

03/29/98

Removable Contamination

Survey Package : A0900 SURFACES & STRUCTURES
 Service Building Hot Side - Elevation 21 ft.

RESULTS LISTING - SORTED BY SURFACE CODE

XLS FILE	UNIT	SURFACE	REASON	MSRMNT LOCATION	ALPHA	BETA
SME1E038.XLS	01	WS1	C01	8	-0.8	1.6
SME1E038.XLS	01	WS1	C01	7	-0.8	1.6
SME1E038.XLS	01	WS1	C01	6	-0.8	7.7
SME1E038.XLS	01	WS1	C01	5	-0.8	-4.5
SME1E038.XLS	01	WS1	C01	4	-0.8	7.7
SME1E038.XLS	01	WS1	C01	3	-0.8	13.8
SME1E038.XLS	01	WS1	C01	2	-0.8	1.6
SME1E038.XLS	01	WS1	C01	1	-0.8	-4.5
SME1E038.XLS	01	FL1	C01	8	-0.8	7.7
SME1E038.XLS	01	FL1	C01	7	-0.8	1.6
SME1E038.XLS	01	FL1	C01	6	0.7	13.8
SME1E038.XLS	01	FL1	C01	5	-0.8	1.6
SME1E038.XLS	01	FL1	C01	4	-0.8	7.7
SME1E038.XLS	01	FL1	C01	3	-0.8	7.7
SME1E038.XLS	01	FL1	C01	2	3.9	13.8
SME1E038.XLS	01	FL1	C01	1	-0.8	-4.5
SME1E038.XLS	01	EQ1	C01	1	-0.8	7.7
SME1E038.XLS	01	CL1	C01	5	0.7	7.7
SME1E038.XLS	01	CL1	C01	4	-0.8	7.7
SME1E038.XLS	01	CL1	C01	3	-0.8	-4.5
SME1E038.XLS	01	CL1	C01	2	-0.8	50.2
SME1E038.XLS	01	CL1	C01	1	-0.8	13.8

NOTES: Activity reported in net dpm/100 cm².

Underlined values exceed the associated MDA.

Bold values exceed 100.00 dpm/100 cm² (beta activity) and/or 20.00 dpm/100 cm² (alpha activity).

124 results are listed.



Maine Yankee Atomic Power Plant Site Characterization

DATAFILE & TENNELEC CALIBRATION SUMMARY

03/29/98

Removable Contamination

Survey Package : A0900 SURFACES & STRUCTURES
Service Building Hot Side - Elevation 21 ft.

SURVEYDATE	XLS FILE	INST ID	S/N	CAL DUE	LAB TECHNICIAN
2/26/98	SME1E038.XLS	1	15632	8/5/98	JWD

CALIBRATION DATE VERIFIED AS ACCEPTABLE



Maine Yankee Atomic Power Plant Site Characterization

Exposure Rate Measurements

03/31/98

Survey Package A0900 SURFACES & STRUCTURES
Service Building Hot Side - Elevation 21 ft.

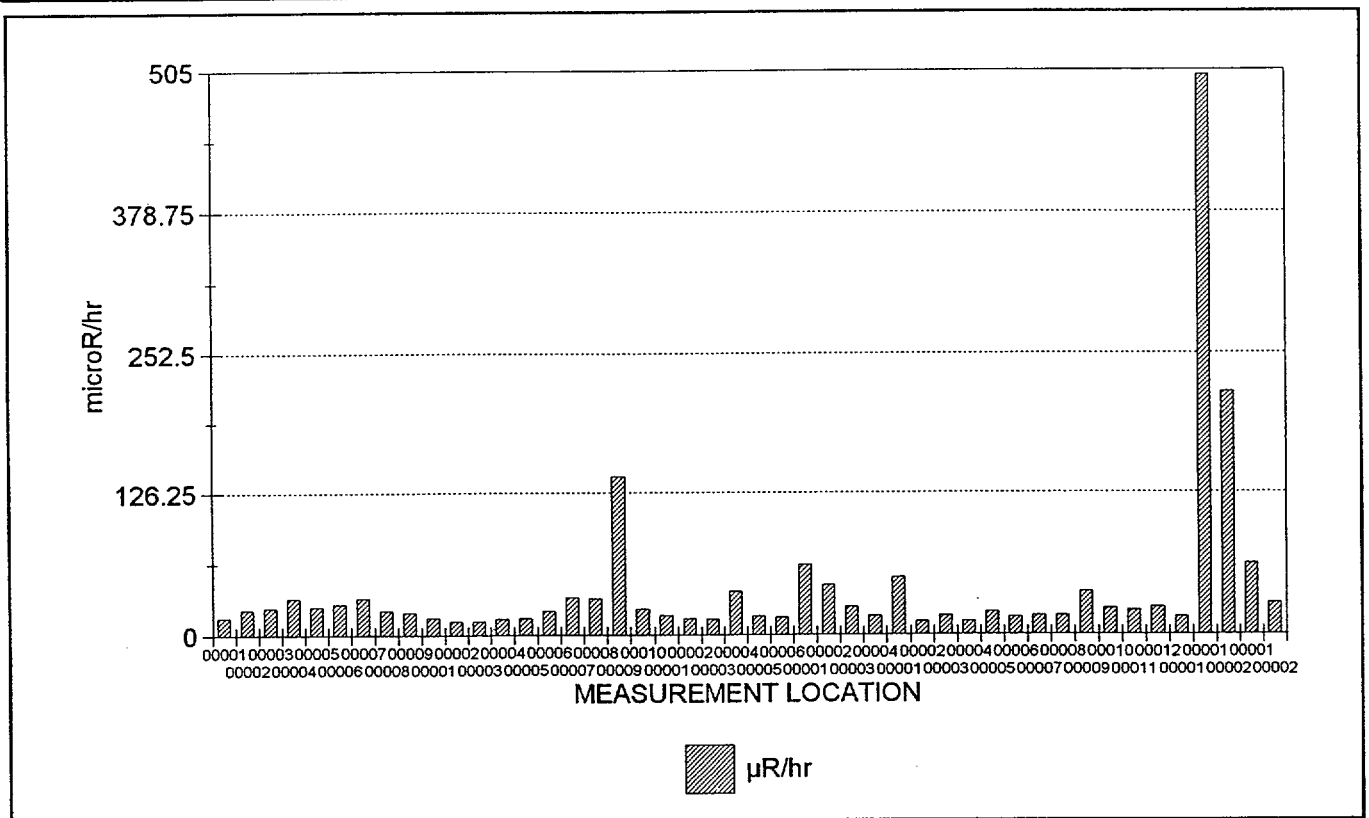
STATISTICAL SUMMARY

	$\mu\text{R/hr}$
Mean	41.5
Maximum	500.5
Minimum	11.8
Standard Deviation	77.5

TESTS PERFORMED

Samples reported satisfy samples prescribed	YES
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Samples Reported	46
Samples Prescribed	45



46 RESULTS ARE GRAPHED



Maine Yankee Atomic Power Plant Site Characterization

03/31/98

Exposure Rate Measurements

Survey Package : A0900 SURFACES & STRUCTURES
 Service Building Hot Side - Elevation 21 ft.

RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	RESULT
570 (2)	01	FL1	B0001	C01	60.00	00001	15.8
570 (2)	01	FL1	B0001	C01	60.00	00002	22.8
570 (2)	01	FL1	B0001	C01	60.00	00003	24.8
570 (2)	01	FL1	B0001	C01	60.00	00004	32.9
570 (2)	01	FL1	B0001	C01	60.00	00005	25.8
570 (2)	01	FL1	B0001	C01	60.00	00006	28.0
570 (2)	01	FL1	B0001	C01	60.00	00007	33.3
570 (2)	01	FL1	B0001	C01	60.00	00008	22.4
570 (2)	01	FL1	B0001	C01	60.00	00009	20.4
570 (2)	02	FL1	B0026	C01	60.00	00001	15.9
570 (2)	02	FL1	B0026	C01	60.00	00002	12.6
570 (2)	02	FL1	B0026	C01	60.00	00003	12.6
570 (2)	02	FL1	B0026	C01	60.00	00004	14.9
570 (2)	02	FL1	B0026	C01	60.00	00005	15.5
570 (2)	02	FL1	B0026	C01	60.00	00006	21.6
570 (2)	02	FL1	B0026	C01	60.00	00007	33.4
570 (2)	02	FL1	B0026	C01	60.00	00008	32.2
570 (2)	02	FL1	B0026	C01	60.00	00009	140.4
570 (2)	02	FL1	B0026	C01	60.00	00010	23.4
570 (2)	03	FL1	B0026	C01	60.00	00001	17.5
570 (2)	03	FL1	B0026	C01	60.00	00002	14.6
570 (2)	03	FL1	B0026	C01	60.00	00003	14.1
570 (2)	03	FL1	B0026	C01	60.00	00004	39.0

REMAINING RESULTS PRINTED ON NEXT PAGE

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

Maine Yankee Atomic Power Plant Site Characterization

03/31/98

Exposure Rate Measurements

Survey Package : A0900 SURFACES & STRUCTURES
 Service Building Hot Side - Elevation 21 ft.

RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	RESULT
570 (2)	03	FL1	B0026	C01	60.00	00005	<u>17.2</u>
570 (2)	03	FL1	B0026	C01	60.00	00006	<u>16.1</u>
570 (2)	04	FL1	B0001	C01	60.00	00001	61.9
570 (2)	04	FL1	B0001	C01	60.00	00002	44.4
570 (2)	04	FL1	B0001	C01	60.00	00003	25.2
570 (2)	04	FL1	B0001	C01	60.00	00004	<u>17.2</u>
570 (2)	05	FL1	B0001	C01	60.00	00001	51.4
570 (2)	05	FL1	B0001	C01	60.00	00002	11.8
570 (2)	05	FL1	B0001	C01	60.00	00003	17.3
570 (2)	05	FL1	B0001	C01	60.00	00004	12.1
570 (2)	05	FL1	B0001	C01	60.00	00005	20.8
570 (2)	05	FL1	B0001	C01	60.00	00006	16.0
570 (2)	05	FL1	B0001	C01	60.00	00007	16.8
570 (2)	05	FL1	B0001	C01	60.00	00008	17.2
570 (2)	05	FL1	B0001	C01	60.00	00009	38.0
570 (2)	05	FL1	B0001	C01	60.00	00010	23.3
570 (2)	05	FL1	B0001	C01	60.00	00011	21.4
570 (2)	05	FL1	B0001	C01	60.00	00012	24.7
570 (2)	06	FL1	B0001	C01	60.00	00001	<u>16.1</u>
570 (2)	07	FL1	B0001	C01	60.00	00001	500.5
570 (2)	07	FL1	B0001	C01	60.00	00002	217.2
570 (2)	08	FL1	B0001	C01	60.00	00001	62.8
570 (2)	08	FL1	B0001	C01	60.00	00002	28.1

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



Maine Yankee Atomic Power Plant Site Characterization

DOWNLOAD FILE & SURVEY INSTRUMENTATION CALIBRATION SUMMARY

03/31/98

Exposure Rate Measurements

Survey Package : A0900 SURFACES & STRUCTURES
 Service Building Hot Side - Elevation 21 ft.

SURVEY DATE	FILE #	M2350		DETECTOR			TECHNICIAN
		INST S/N	CAL DUE	MODEL	S/N	CAL DUE	
2/9/98	570 (2)	129433	6/10/98	44-2	129779	6/11/98	MEW9813

CALIBRATION DATES VERIFIED AS ACCEPTABLE



Maine Yankee Atomic Power Plant Site Characterization

04/02/98

CHARACTERIZATION SUMMARY

SURVEY PACKAGE NUMBER A1100

SURFACES & STRUCTURES

PACKAGE DESCRIPTION

Low Level Waste Storage Building - Elevation 21 ft.

SURVEY AREA DESCRIPTION

Low Level Waste Storage Building (LLWSB)

GENERAL HISTORICAL INFORMATION (Operational history, etc.)

The Low Level Waste Storage Building is a single-story high bay building with concrete floor and lower walls, and steel frame and sheet metal upper walls and ceiling. Overhead cranes on tracks are on either side of the building. This building was used to store Low Level Radioactive Waste prior to disposal. It has floor drains and overhead HVAC ducts.

SUMMARY OF CHARACTERIZATION ACTIVITIES

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

Collected 200 direct measurements for total beta activity at the survey measurement locations indicated in the results listing report. Due to elevated background radioactivity in the survey area, a scan of a two meter area encompassing each survey measurement location was not performed. Each direct measurement for total beta activity was accompanied by a corresponding background measurement at the same location. The background was used in the calculation of net dpm/100cm².

Collected smear samples to analyze for removable alpha and beta activity at 201 survey locations including those as the direct measurements for total beta activity.

Collected one meter exposure rate measurements at 37 survey locations indicated in the results listing report.

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 12 direct measurements for total beta activity above 2000 dpm/100cm². There were 29 direct measurements for total beta activity above the individual measurements' MDA (Maximum MDA was 17,886 dpm/100cm²). The maximum measurement result was 74,216 dpm/100cm².
- o There were no measurements for removable beta activity above MDA (38.3 dpm/100cm²).
- o There were no measurements for removable alpha activity above MDA (8 dpm/100cm²).
- o The average and maximum exposure rate measurement results were 0.3 mR/hr and 3.6 mR/hr, respectively.

REFERENCES (Documents, Interviews)



Maine Yankee Atomic Power Plant Site Characterization

SUMMARY OF SURVEY UNIT(S)

03/31/98

OUTPUT BATCH SN = 340

PACKAGE A1100 SURFACES & STRUCTURES
 Low Level Waste Storage Building - Elevation 21 ft.

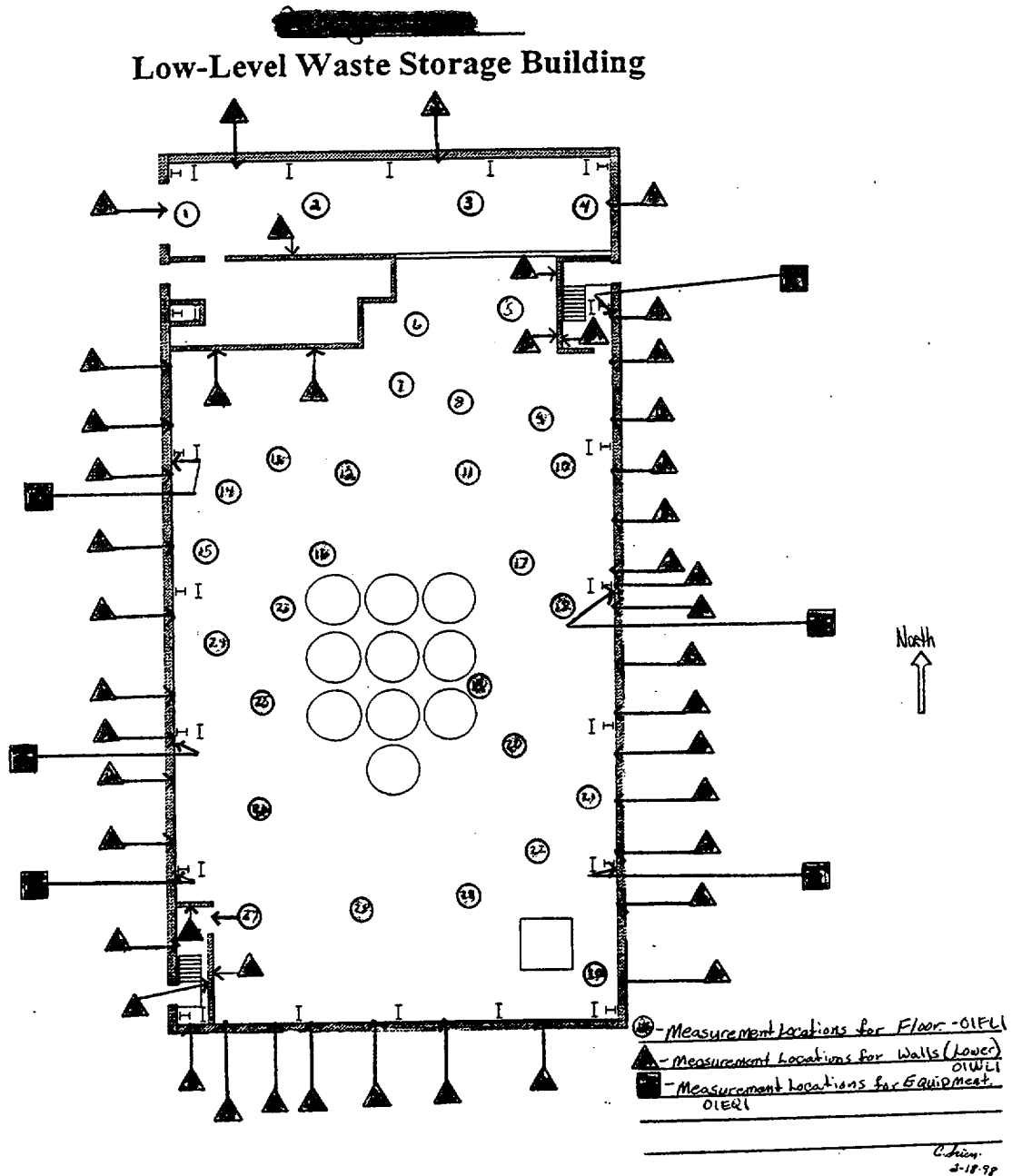
UNIT(S)	SURFACE(S)
01 - Low Level Waste Storage Building	CL1 (Ceiling) CL2 (Ceiling) EQ1 (Equipment: Ventilation Duct) EQ2 (Equipment: Overhead Crane) FD1 (Drain *Note* This will be completed by the Systems Group.) FL1 (Floor) SW1 (Stairs) WL1 (Wall -lower) WU1 (Wall: Upper Wall *Note* South wall is inaccessible.)
02 - Room within the Low Level Waste Storage Building	CL1 (Ceiling) EQ1 (Equipment) FL1 (Floor) WS1 (Wall)

REASON(S) CHARACTERIZATION SURVEY (C01)

MATERIALS	MAT'L CODE	MATERIAL DESCRIPTION	BETA BKGD (dpm/100 cm ²)
	B0001	CONCRETE - PAINTED (INTERIOR)	478.0
	B0002	CONCRETE - BARE (INTERIOR)	665.0
	B0004	CINDER BLOCK - BARE (INTERIOR)	665.0
	B0036	METAL - PAINTED	0.0
	B9999	OTHER	0.0

Maine Yankee Atomic Power Plant Site Characterization

SURVEY PACKAGE A1100

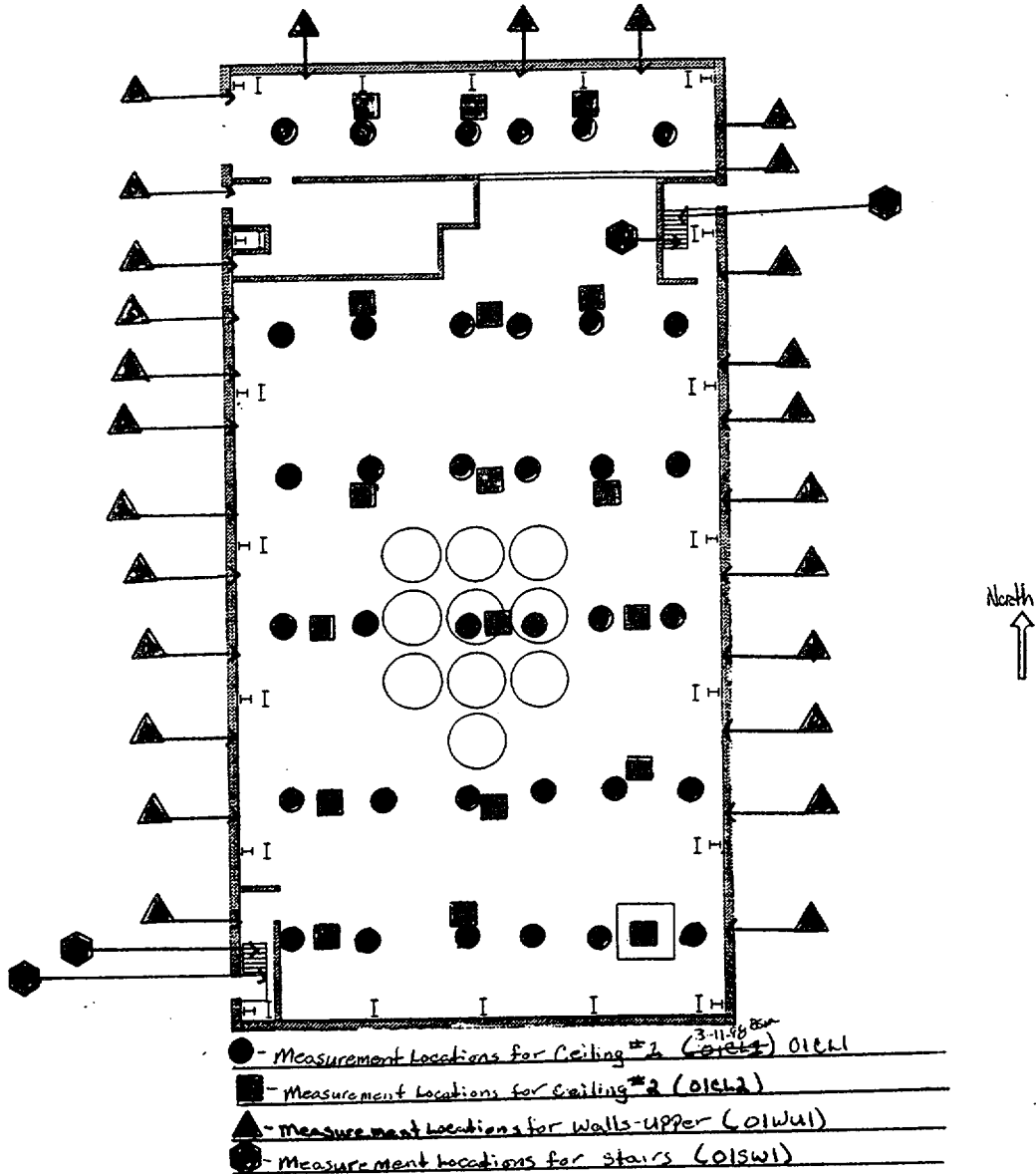




Maine Yankee Atomic Power Plant Site Characterization

SURVEY PACKAGE A1100

Low-Level Waste Storage Building

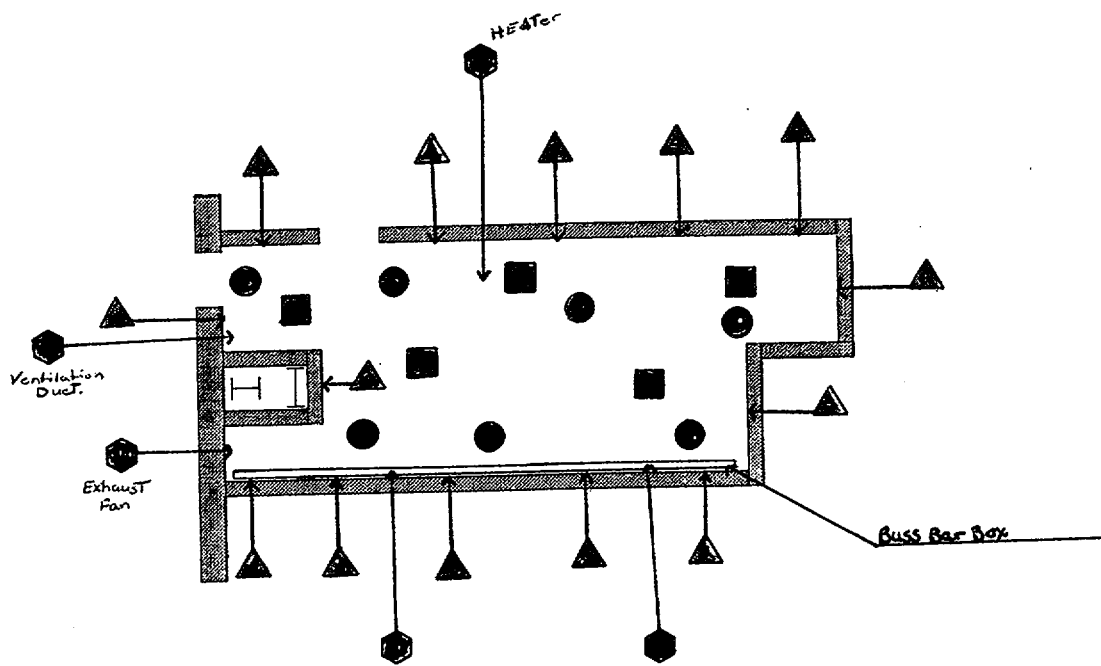


Charles Davis
18 Feb 98

Maine Yankee Atomic Power Plant Site Characterization

SURVEY PACKAGE A1100

**Low-Level Waste Storage Building
Office Area**



- - Measurement Locations on the Floor (O2FLI)
- - Measurement Locations on the Ceiling (O2CLI)
- ▲ - Measurement Locations on the Walls (O2WSI)
- - Measurement Locations on the Equipment (O2EQI)



Charles Rice
18 Feb 98



Maine Yankee Atomic Power Plant Site Characterization

04/01/98

Direct Measurements For Total Beta Activity

Survey Package A1100 SURFACES & STRUCTURES
 Low Level Waste Storage Building - Elevation 21 ft.

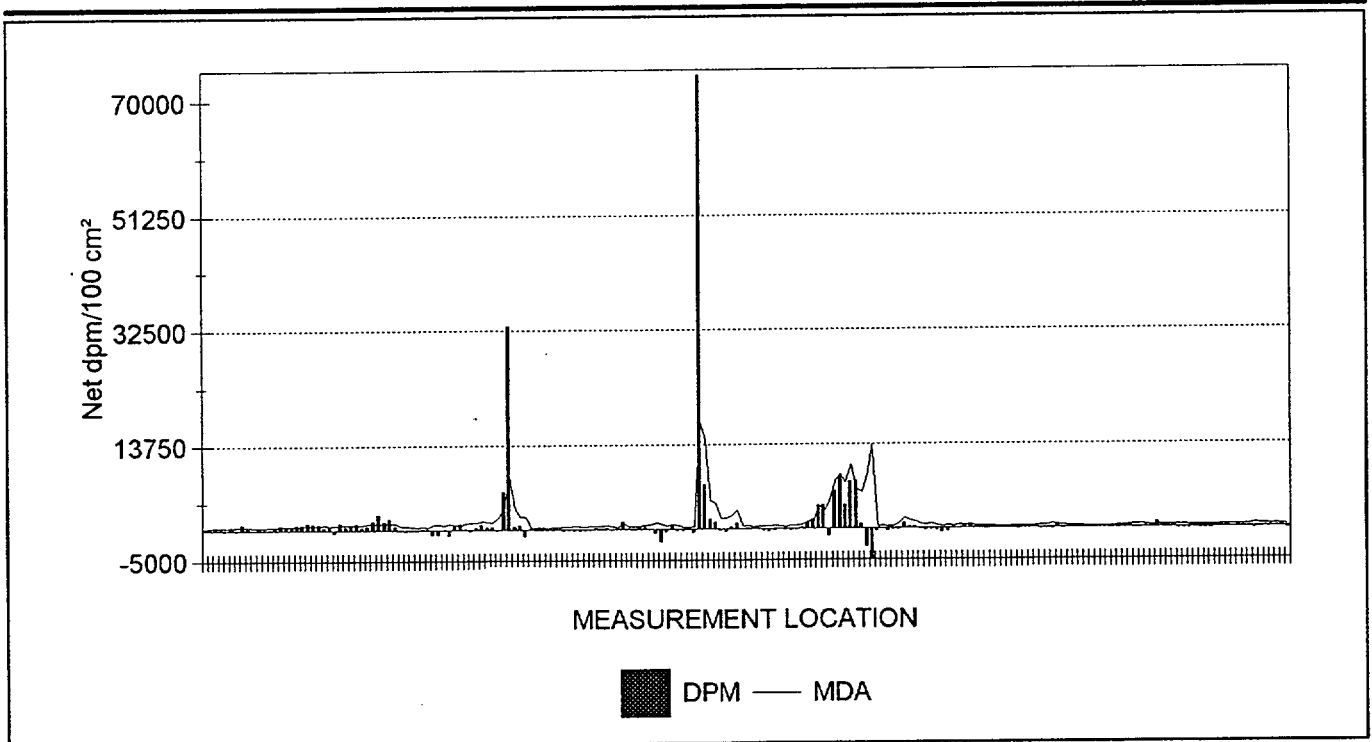
STATISTICAL SUMMARY

	Net dpm/100 cm ²
Mean	851.5
Maximum	74,215.6
Minimum	-18,306.5
Standard Deviation	6,023.3
MDA	17,886.1

TESTS PERFORMED

Samples reported satisfy samples prescribed	YES
MDA <2000 net dpm/100 cm ²	NO
Results above 2000 net dpm/100 cm ²	12
Number of results above MDA	29

Samples Reported	200
Samples Prescribed	200



200 RESULTS ARE GRAPHED

Maine Yankee Atomic Power Plant Site Characterization

04/01/98

Direct Measurements For Total Beta Activity

Survey Package : A1100 SURFACES & STRUCTURES

Low Level Waste Storage Building - Elevation 21 ft.

RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	MDA	RESULT
535 (2)	01	CL1	B9999	C01	60	00001	337.0	231.8
535 (2)	01	CL1	B9999	C01	60	00002	367.7	328.4
535 (2)	01	CL1	B9999	C01	60	00003	400.2	<u>556.3</u>
535 (2)	01	CL1	B9999	C01	60	00004	374.9	65.7
535 (2)	01	CL1	B9999	C01	60	00005	438.9	0.0
535 (2)	01	CL1	B9999	C01	60	00006	385.4	<u>517.7</u>
535 (2)	01	CL1	B9999	C01	60	00007	522.4	-15.5
535 (2)	01	CL1	B9999	C01	60	00008	471.9	<u>919.5</u>
535 (2)	01	CL1	B9999	C01	60	00009	489.4	<u>351.6</u>
535 (2)	01	CL1	B9999	C01	60	00010	459.8	23.2
535 (2)	01	CL1	B9999	C01	60	00011	431.6	340.0
535 (2)	01	CL1	B9999	C01	60	00012	423.5	115.9
551 (2)	01	CL1	B9999	C01	60	00013	516.8	110.8
551 (2)	01	CL1	B9999	C01	60	00014	564.6	533.6
551 (2)	01	CL1	B9999	C01	60	00015	605.0	<u>730.6</u>
551 (2)	01	CL1	B9999	C01	60	00016	588.8	587.0
551 (2)	01	CL1	B9999	C01	60	00017	644.5	467.9
551 (2)	01	CL1	B9999	C01	60	00018	568.9	<u>829.1</u>
551 (2)	01	CL1	B9999	C01	60	00019	744.6	<u>882.5</u>
551 (2)	01	CL1	B9999	C01	60	00020	777.4	<u>1,161.6</u>
551 (2)	01	CL1	B9999	C01	60	00021	776.0	<u>1,009.8</u>
551 (2)	01	CL1	B9999	C01	60	00022	749.6	<u>956.4</u>
551 (2)	01	CL1	B9999	C01	60	00023	796.2	439.2
551 (2)	01	CL1	B9999	C01	60	00024	714.9	<u>742.9</u>
551 (2)	01	CL1	B9999	C01	60	00025	750.1	-406.4
551 (2)	01	CL1	B9999	C01	60	00026	824.8	<u>1,112.4</u>
551 (2)	01	CL1	B9999	C01	60	00027	816.2	521.3
551 (2)	01	CL1	B9999	C01	60	00028	844.2	640.3
551 (2)	01	CL1	B9999	C01	60	00029	797.9	<u>1,038.5</u>
551 (2)	01	CL1	B9999	C01	60	00030	805.5	431.0
551 (2)	01	CL1	B9999	C01	60	00031	999.4	628.0
551 (2)	01	CL1	B9999	C01	60	00032	995.0	<u>1,490.0</u>
551 (2)	01	CL1	B9999	C01	60	00033	1,023.5	<u>2,544.9</u>
551 (2)	01	CL1	B9999	C01	60	00034	1,024.6	<u>1,329.9</u>
551 (2)	01	CL1	B9999	C01	60	00035	1,046.3	<u>1,802.0</u>
551 (2)	01	CL1	B9999	C01	60	00036	1,029.6	632.1
549 (2)	01	CL2	B0036	C01	60	00007	624.5	-118.8
549 (2)	01	CL2	B0036	C01	60	00008	637.1	-229.5
549 (2)	01	CL2	B0036	C01	60	00009	480.1	-122.9
549 (2)	01	CL2	B0036	C01	60	00010	431.8	-36.9

NOTES: Activity reported in net dpm/100 cm². Count times are reported in seconds.

Underlined values exceed the MDA.

Bold values exceed 2000 dpm/100 cm².



Maine Yankee Atomic Power Plant Site Characterization

04/01/98

Direct Measurements For Total Beta Activity

Survey Package : A1100 SURFACES & STRUCTURES
 Low Level Waste Storage Building - Elevation 21 ft.

RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	MDA	RESULT
549 (2)	01	CL2	B0036	C01	60	00011	551.4	90.1
549 (2)	01	CL2	B0036	C01	60	00012	405.1	139.3
549 (2)	01	CL2	B0036	C01	60	00013	832.5	-700.7
549 (2)	01	CL2	B0036	C01	60	00014	803.0	-713.0
549 (2)	01	CL2	B0036	C01	60	00015	707.2	45.1
549 (2)	01	CL2	B0036	C01	60	00016	976.1	-856.4
549 (2)	01	CL2	B0036	C01	60	00017	805.3	639.2
549 (2)	01	CL2	B0036	C01	60	00018	663.8	<u>893.3</u>
534 (2)	01	CL2	B9999	C01	60	00001	1,051.5	154.3
534 (2)	01	CL2	B9999	C01	60	00002	1,099.2	-187.3
534 (2)	01	CL2	B9999	C01	60	00003	1,149.7	319.6
534 (2)	01	CL2	B9999	C01	60	00004	1,313.7	793.4
534 (2)	01	CL2	B9999	C01	60	00005	1,245.3	385.7
534 (2)	01	CL2	B9999	C01	60	00006	1,182.1	396.7
564 (2)	01	EQ1	B9999	C01	60	00001	1,958.1	-107.0
564 (2)	01	EQ1	B9999	C01	60	00002	3,439.5	<u>6,101.8</u>
564 (2)	01	EQ1	B9999	C01	60	00003	8,674.3	<u>33,185.1</u>
564 (2)	01	EQ1	B9999	C01	60	00004	3,559.7	535.2
564 (2)	01	EQ1	B9999	C01	60	00005	2,074.1	695.8
564 (2)	01	EQ1	B9999	C01	60	00006	2,041.7	-1,070.5
541 (2)	01	EQ2	B9999	C01	60	00001	237.1	81.0
541 (2)	01	EQ2	B9999	C01	60	00002	272.1	-48.6
541 (2)	01	EQ2	B9999	C01	60	00003	281.5	-97.2
541 (2)	01	EQ2	B9999	C01	60	00004	249.4	-68.9
541 (2)	01	EQ2	B9999	C01	60	00005	271.4	-97.2
541 (2)	01	FL1	B0001	C01	60	00004	342.8	-36.5
541 (2)	01	FL1	B0001	C01	60	00005	402.2	-162.1
541 (2)	01	FL1	B0001	C01	60	00006	405.4	-68.9
541 (2)	01	FL1	B0001	C01	60	00007	512.8	-251.2
541 (2)	01	FL1	B0001	C01	60	00008	425.6	-230.9
541 (2)	01	FL1	B0001	C01	60	00009	452.6	-239.0
541 (2)	01	FL1	B0001	C01	60	00010	481.8	-121.5
541 (2)	01	FL1	B0001	C01	60	00011	550.7	230.9
541 (2)	01	FL1	B0001	C01	60	00012	560.8	56.7
541 (2)	01	FL1	B0001	C01	60	00013	653.7	251.1
541 (2)	01	FL1	B0001	C01	60	00014	374.0	-56.7
541 (2)	01	FL1	B0001	C01	60	00015	346.0	186.3
541 (2)	01	FL1	B0001	C01	60	00016	1,083.1	<u>1,275.9</u>
541 (2)	01	FL1	B0001	C01	60	00017	452.2	56.7
541 (2)	01	FL1	B0001	C01	60	00018	462.5	24.3

NOTES: Activity reported in net dpm/100 cm². Count times are reported in seconds.
 Underlined values exceed the MDA.
 Bold values exceed 2000 dpm/100 cm².

Maine Yankee Atomic Power Plant Site Characterization

04/01/98

Direct Measurements For Total Beta Activity

Survey Package: A1100 SURFACES & STRUCTURES

Low Level Waste Storage Building - Elevation 21 ft.

RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	MDA	RESULT
541 (2)	01	FL1	B0001	C01	60	00019	530.9	388.8
541 (2)	01	FL1	B0001	C01	60	00020	658.4	275.4
541 (2)	01	FL1	B0001	C01	60	00021	765.5	12.1
541 (2)	01	FL1	B0001	C01	60	00022	1,013.0	-575.2
541 (2)	01	FL1	B0001	C01	60	00023	795.8	-1,952.4
541 (2)	01	FL1	B0001	C01	60	00024	572.6	-425.3
541 (2)	01	FL1	B0001	C01	60	00025	739.2	<u>745.3</u>
541 (2)	01	FL1	B0001	C01	60	00026	607.9	-162.1
523 (2)	01	FL1	B0002	C01	60	00001	351.0	-240.3
523 (2)	01	FL1	B0002	C01	60	00002	322.3	58.2
523 (2)	01	FL1	B0002	C01	60	00003	394.7	-508.1
564 (2)	01	FL1	B0002	C01	60	00027	17,886.	<u>74,215.6</u>
564 (2)	01	FL1	B0002	C01	60	00028	14,550.	<u>7,203.1</u>
564 (2)	01	FL1	B0002	C01	60	00029	4,634.6	1,690.1
564 (2)	01	FL1	B0002	C01	60	00030	4,145.2	1,154.8
564 (2)	01	SW1	B9999	C01	60	00001	1,700.3	-214.1
564 (2)	01	SW1	B9999	C01	60	00002	1,797.0	-428.2
564 (2)	01	SW1	B9999	C01	60	00003	2,198.7	321.1
564 (2)	01	SW1	B9999	C01	60	00004	2,973.6	963.4
540 (2)	01	WL1	B0001	C01	60	00006	441.1	-9.7
540 (2)	01	WL1	B0001	C01	60	00007	474.4	56.6
540 (2)	01	WL1	B0001	C01	60	00008	320.3	106.3
540 (2)	01	WL1	B0001	C01	60	00009	417.5	81.5
540 (2)	01	WL1	B0001	C01	60	00010	463.0	-308.1
540 (2)	01	WL1	B0001	C01	60	00011	435.0	-432.4
540 (2)	01	WL1	B0001	C01	60	00012	471.6	-250.1
540 (2)	01	WL1	B0001	C01	60	00013	430.6	-42.9
540 (2)	01	WL1	B0001	C01	60	00015	360.4	-63.6
540 (2)	01	WL1	B0001	C01	60	00016	471.6	-183.8
540 (2)	01	WL1	B0001	C01	60	00017	485.1	-121.6
540 (2)	01	WL1	B0001	C01	60	00018	656.5	230.7
540 (2)	01	WL1	B0001	C01	60	00019	1,098.8	902.0
540 (2)	01	WL1	B0001	C01	60	00020	1,085.9	<u>1,440.8</u>
542 (2)	01	WL1	B0001	C01	60	00021	3,839.3	<u>3,723.0</u>
542 (2)	01	WL1	B0001	C01	60	00022	2,782.5	<u>3,825.4</u>
542 (2)	01	WL1	B0001	C01	60	00023	4,469.0	-1,195.2
542 (2)	01	WL1	B0001	C01	60	00024	7,665.3	<u>6,028.4</u>
542 (2)	01	WL1	B0001	C01	60	00025	8,838.4	<u>8,385.0</u>
542 (2)	01	WL1	B0001	C01	60	00026	7,443.1	<u>3,825.4</u>
542 (2)	01	WL1	B0001	C01	60	00027	10,394.	<u>7,616.5</u>

NOTES: Activity reported in net dpm/100 cm². Count times are reported in seconds.
 Underlined values exceed the MDA.
 Bold values exceed 2000 dpm/100 cm².



Maine Yankee Atomic Power Plant Site Characterization

04/01/98

Direct Measurements For Total Beta Activity

Survey Package : A1100 SURFACES & STRUCTURES
 Low Level Waste Storage Building - Elevation 21 ft.

RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	MDA	RESULT
542 (2)	01	WL1	B0001	C01	60	00028	6,331.8	<u>7,667.8</u>
542 (2)	01	WL1	B0001	C01	60	00029	5,824.8	700.3
542 (2)	01	WL1	B0001	C01	60	00030	8,495.3	-2,885.9
542 (2)	01	WL1	B0001	C01	60	00031	13,658.	-18,306.5
523 (2)	01	WL1	B0002	C01	60	00001	313.0	-404.8
523 (2)	01	WL1	B0002	C01	60	00002	416.7	-110.2
523 (2)	01	WL1	B0002	C01	60	00003	331.8	-378.0
539 (2)	01	WL1	B0002	C01	60	00033	315.4	-181.4
539 (2)	01	WL1	B0002	C01	60	00034	843.8	-227.8
539 (2)	01	WL1	B0002	C01	60	00035	1,643.9	867.1
539 (2)	01	WL1	B0002	C01	60	00036	1,296.3	240.3
539 (2)	01	WL1	B0002	C01	60	00037	1,053.8	224.8
539 (2)	01	WL1	B0002	C01	60	00038	672.1	-111.7
539 (2)	01	WL1	B0002	C01	60	00039	546.9	-328.4
539 (2)	01	WL1	B0002	C01	60	00040	718.3	-173.6
539 (2)	01	WL1	B0002	C01	60	00041	375.0	-320.7
539 (2)	01	WL1	B0002	C01	60	00042	357.2	-599.2
539 (2)	01	WL1	B0002	C01	60	00043	405.3	-552.8
523 (2)	01	WL1	B0004	C01	60	00004	360.2	-121.6
539 (2)	01	WL1	B0004	C01	60	00032	486.4	31.4
539 (2)	01	WL1	B0004	C01	60	00044	424.5	<u>507.3</u>
539 (2)	01	WL1	B0004	C01	60	00045	622.3	<u>646.6</u>
523 (2)	01	WL1	B9999	C01	60	00005	293.0	122.4
549 (2)	01	WU1	B0036	C01	60	00001	281.4	-41.0
549 (2)	01	WU1	B0036	C01	60	00002	276.0	-147.5
549 (2)	01	WU1	B0036	C01	60	00003	264.0	8.2
549 (2)	01	WU1	B0036	C01	60	00004	237.5	-16.4
549 (2)	01	WU1	B0036	C01	60	00005	256.7	-4.1
549 (2)	01	WU1	B0036	C01	60	00006	247.7	143.4
549 (2)	01	WU1	B0036	C01	60	00007	276.0	-32.8
549 (2)	01	WU1	B0036	C01	60	00008	269.7	-94.2
549 (2)	01	WU1	B0036	C01	60	00009	281.4	90.1
549 (2)	01	WU1	B0036	C01	60	00010	261.1	237.7
549 (2)	01	WU1	B0036	C01	60	00011	354.3	118.8
549 (2)	01	WU1	B0036	C01	60	00012	365.2	-204.9
549 (2)	01	WU1	B0036	C01	60	00013	396.2	-94.2
551 (2)	01	WU1	B9999	C01	60	00014	608.7	-250.4
551 (2)	01	WU1	B9999	C01	60	00015	439.0	<u>558.2</u>
551 (2)	01	WU1	B9999	C01	60	00016	455.3	-78.0
551 (2)	01	WU1	B9999	C01	60	00017	349.5	164.2

NOTES: Activity reported in net dpm/100 cm². Count times are reported in seconds.
 Underlined values exceed the MDA.
 Bold values exceed 2000 dpm/100 cm².



Maine Yankee Atomic Power Plant Site Characterization

04/01/98

Direct Measurements For Total Beta Activity

Survey Package : A1100 SURFACES & STRUCTURES
 Low Level Waste Storage Building - Elevation 21 ft.

RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	MDA	RESULT
551 (2)	01	WU1	B9999	C01	60	00018	295.0	225.8
551 (2)	01	WU1	B9999	C01	60	00019	277.1	-45.2
551 (2)	01	WU1	B9999	C01	60	00020	251.2	90.3
551 (2)	01	WU1	B9999	C01	60	00021	237.1	106.7
551 (2)	01	WU1	B9999	C01	60	00022	239.5	139.6
551 (2)	01	WU1	B9999	C01	60	00023	227.2	73.9
551 (2)	01	WU1	B9999	C01	60	00024	233.0	8.2
551 (2)	01	WU1	B9999	C01	60	00025	230.5	98.5
551 (2)	01	WU1	B9999	C01	60	00026	264.5	-69.8
522 (2)	02	CL1	B9999	C01	60	00001	349.4	309.4
522 (2)	02	CL1	B9999	C01	60	00002	435.4	209.1
522 (2)	02	CL1	B9999	C01	60	00003	536.6	-29.3
522 (2)	02	CL1	B9999	C01	60	00004	470.1	50.2
522 (2)	02	CL1	B9999	C01	60	00005	404.3	133.8
523 (2)	02	EQ1	B9999	C01	60	00001	350.5	68.9
523 (2)	02	EQ1	B9999	C01	60	00002	423.7	<u>834.2</u>
523 (2)	02	EQ1	B9999	C01	60	00003	400.0	179.8
523 (2)	02	EQ1	B9999	C01	60	00004	454.0	179.8
523 (2)	02	EQ1	B9999	C01	60	00005	453.0	390.3
522 (2)	02	FL1	B0002	C01	60	00001	385.6	-196.7
522 (2)	02	FL1	B0002	C01	60	00002	375.3	-217.6
522 (2)	02	FL1	B0002	C01	60	00003	363.7	-184.1
522 (2)	02	FL1	B0002	C01	60	00004	358.3	-71.2
522 (2)	02	FL1	B0002	C01	60	00005	325.7	-205.0
522 (2)	02	FL1	B0002	C01	60	00006	338.6	-163.2
522 (2)	02	FL1	B0002	C01	60	00007	339.2	-213.4
523 (2)	02	WS1	B0004	C01	60	00001	349.1	196.0
523 (2)	02	WS1	B0004	C01	60	00002	411.3	104.1
523 (2)	02	WS1	B0004	C01	60	00003	413.6	352.8
523 (2)	02	WS1	B0004	C01	60	00004	393.0	12.3
523 (2)	02	WS1	B0004	C01	60	00005	434.3	261.0
523 (2)	02	WS1	B0004	C01	60	00006	429.0	115.6
523 (2)	02	WS1	B0004	C01	60	00007	436.5	16.1
523 (2)	02	WS1	B0004	C01	60	00008	634.0	-213.5
523 (2)	02	WS1	B0004	C01	60	00009	572.0	-29.8
523 (2)	02	WS1	B0004	C01	60	00010	483.4	96.5
523 (2)	02	WS1	B0004	C01	60	00011	401.6	142.4
523 (2)	02	WS1	B0004	C01	60	00012	501.2	81.2
523 (2)	02	WS1	B0004	C01	60	00013	375.2	349.0
523 (2)	02	WS1	B0004	C01	60	00014	338.2	-259.4

NOTES: Activity reported in net dpm/100 cm². Count times are reported in seconds.
 Underlined values exceed the MDA.
 Bold values exceed 2000 dpm/100 cm².
 200 results are listed.



Maine Yankee Atomic Power Plant Site Characterization

DOWNLOAD FILE & SURVEY INSTRUMENTATION CALIBRATION SUMMARY

04/01/98

Direct Measurements For Total Beta Activity

Survey Package : A1100 SURFACES & STRUCTURES
 Low Level Waste Storage Building - Elevation 21 ft.

SURVEY DATE	FILE #	M2350		DETECTOR			PRE EFF	TECHNICIAN
		INST S/N	CAL DUE	MODEL	S/N	CAL DUE		
1/30/98	522 (2)	126196	4/15/98	43-106	126897	4/18/98	.19	DJH2236
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
1/30/98	523 (2)	080498	4/8/98	43-68	PR075149	4/8/98	.21	CWI5440
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
2/3/98	534 (2)	126196	4/15/98	43-106	126897	4/18/98	.20	DJH2236
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
2/3/98	535 (2)	080498	4/8/98	43-68	PR075149	4/8/98	.21	CWI5440
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
2/4/98	539 (2)	080498	4/8/98	43-68	PR075149	4/8/98	.21	CWI5440
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
2/4/98	540 (2)	129401	6/10/98	43-106	128923	6/8/98	.19	GLL9768
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
2/4/98	541 (2)	126196	4/15/98	43-106	126897	4/18/98	.20	DJH2236
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
2/4/98	542 (2)	126170	6/10/98	44-40	092644	4/29/98	.13	CWI5440
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
2/5/98	549 (2)	129401	6/10/98	43-106	128923	6/8/98	.19	GLL9768
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
2/5/98	551 (2)	080498	4/8/98	43-68	PR075149	4/8/98	.19	CWI5440
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
2/6/98	564 (2)	080498	4/8/98	44-40	PR090001	4/8/98	.12	CWI5440
CALIBRATION DATES VERIFIED AS ACCEPTABLE								



Maine Yankee Atomic Power Plant Site Characterization

03/29/98 Removable Contamination - Gross Beta Activity

Survey Package A1100 SURFACES & STRUCTURES
 Low Level Waste Storage Building - Elevation 21 ft.

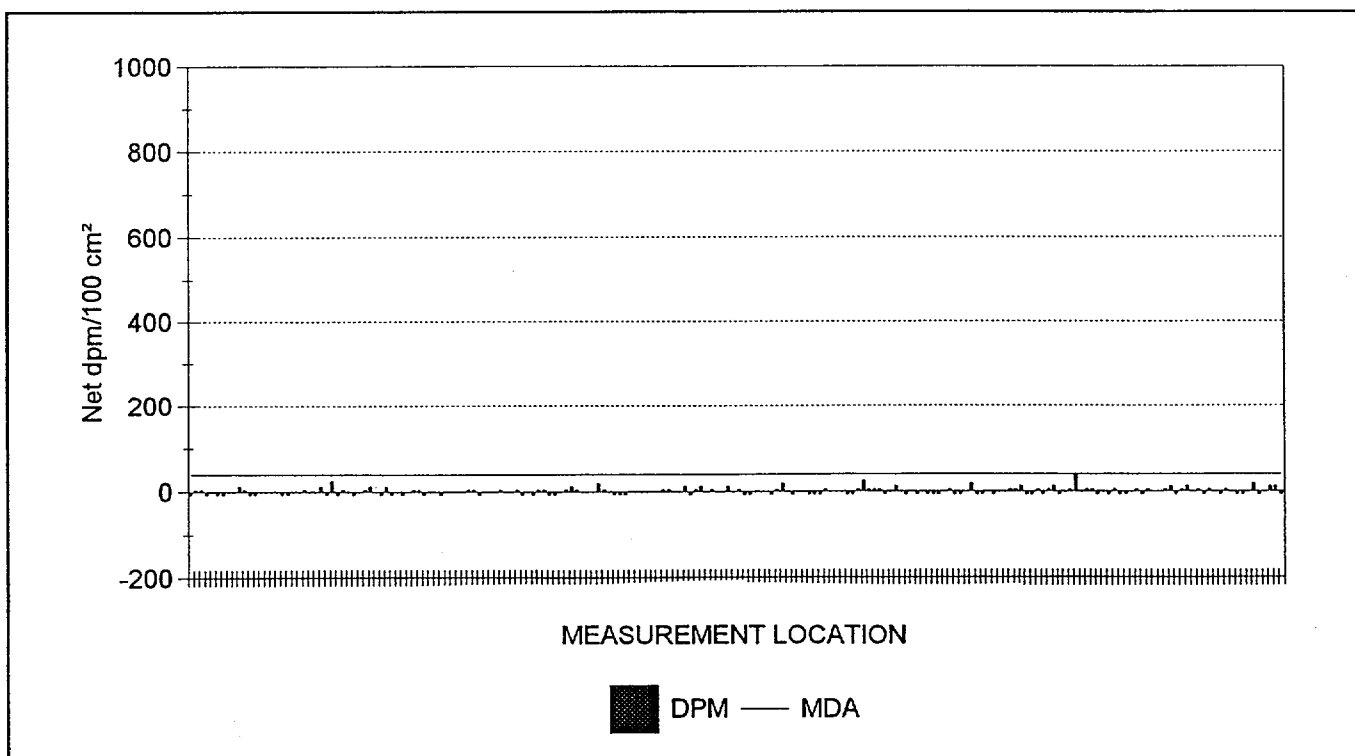
STATISTICAL SUMMARY

TESTS PERFORMED

	Net dpm/100 cm ²
Mean	0.3
Maximum	35.8
Minimum	-7.0
Standard Deviation	7.0
MDA	38.3

MDA <100 net dpm/100 cm ²	YES
Results above 100 net dpm/100 cm ²	0
Number of results above MDA	0

Samples Reported	201
Samples Prescribed	201



201 RESULTS ARE GRAPHED



Maine Yankee Atomic Power Plant Site Characterization

03/29/98

Removable Contamination - Gross Alpha Activity

Survey Package A1100 SURFACES & STRUCTURES
 Low Level Waste Storage Building - Elevation 21 ft.

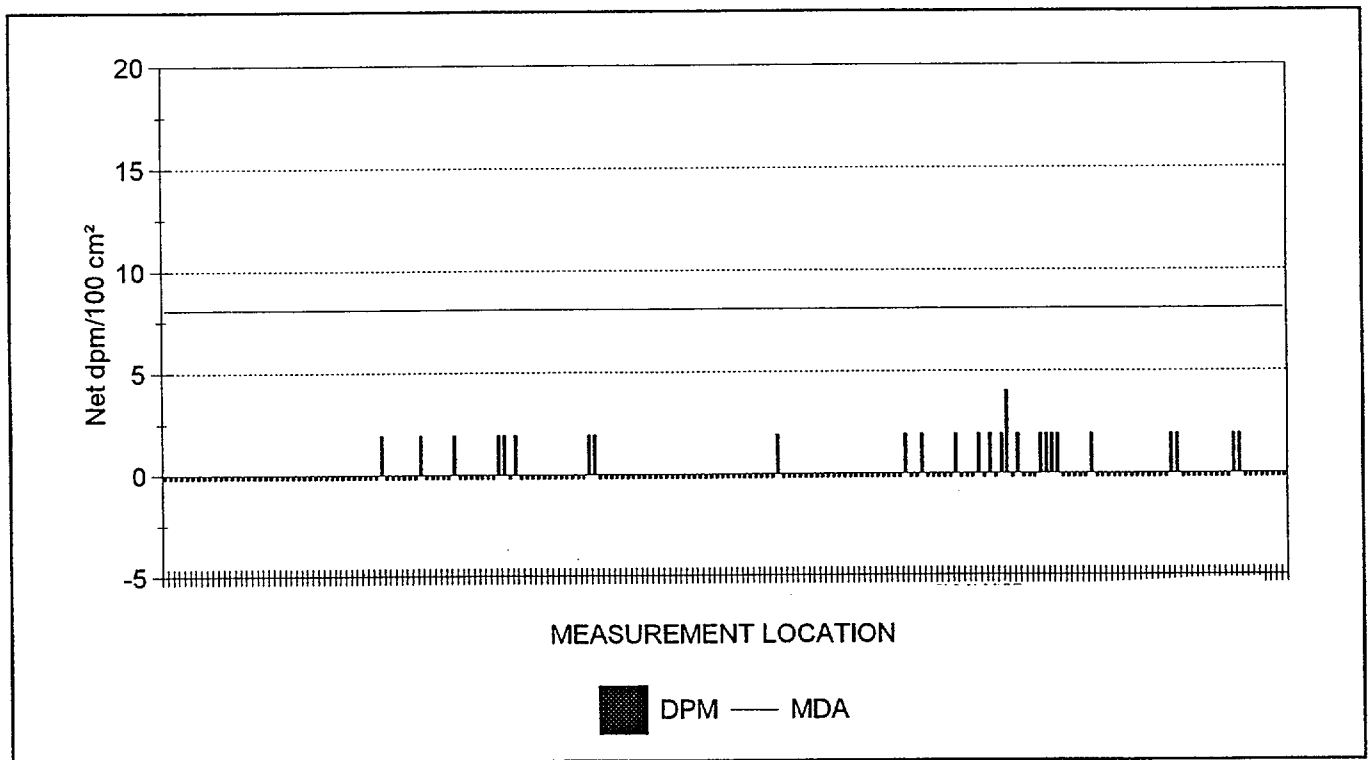
STATISTICAL SUMMARY

TESTS PERFORMED

	Net dpm/100 cm ²
Mean	0.1
Maximum	4.1
Minimum	-0.2
Standard Deviation	0.8
MDA	8.1

MDA < 10 net dpm/100 cm ²	YES
Results above 20 net dpm/100 cm ²	0
Number of results above MDA	0

Samples Reported	201
Samples Prescribed	201



201 RESULTS ARE GRAPHED



Maine Yankee Atomic Power Plant Site Characterization

03/29/98

Removable Contamination

Survey Package : A1100 SURFACES & STRUCTURES
 Low Level Waste Storage Building - Elevation 21 ft.

RESULTS LISTING - SORTED BY SURFACE CODE

XLS FILE	UNIT	SURFACE	REASON	MSRMNT LOCATION	ALPHA	BETA
SME1E086.XLS	02	WS1	C01	9	-0.2	-7.0
SME1E086.XLS	02	WS1	C01	8	-0.2	11.3
SME1E086.XLS	02	WS1	C01	7	-0.2	11.3
SME1E086.XLS	02	WS1	C01	6	-0.2	-0.9
SME1E086.XLS	02	WS1	C01	5	-0.2	-7.0
SME1E086.XLS	02	WS1	C01	4	-0.2	17.4
SME1E086.XLS	02	WS1	C01	3	-0.2	-0.9
SME1E086.XLS	02	WS1	C01	2	-0.2	-7.0
SME1E086.XLS	02	WS1	C01	14	1.9	-7.0
SME1E086.XLS	02	WS1	C01	13	1.9	-0.9
SME1E086.XLS	02	WS1	C01	12	-0.2	5.2
SME1E086.XLS	02	WS1	C01	11	-0.2	-7.0
SME1E086.XLS	02	WS1	C01	10	-0.2	-0.9
SME1E086.XLS	02	WS1	C01	1	-0.2	5.2
SME1E086.XLS	02	FL1	C01	7	-0.2	-7.0
SME1E086.XLS	02	FL1	C01	6	-0.2	5.2
SME1E086.XLS	02	FL1	C01	5	-0.2	-0.9
SME1E086.XLS	02	FL1	C01	4	-0.2	11.3
SME1E086.XLS	02	FL1	C01	3	-0.2	5.2
SME1E086.XLS	02	FL1	C01	2	1.9	-7.0
SME1E086.XLS	02	FL1	C01	1	1.9	11.3
SME1E086.XLS	02	EQ1	C01	5	-0.2	5.2
SME1E086.XLS	02	EQ1	C01	4	-0.2	-0.9
SME1E086.XLS	02	EQ1	C01	3	-0.2	-0.9
SME1E086.XLS	02	EQ1	C01	2	-0.2	5.2
SME1E086.XLS	02	EQ1	C01	1	-0.2	-7.0
SME1E086.XLS	02	CL1	C01	5	-0.2	5.2
SME1E086.XLS	02	CL1	C01	4	-0.2	-0.9
SME1E086.XLS	02	CL1	C01	3	-0.2	-7.0
SME1E086.XLS	02	CL1	C01	2	-0.2	-7.0
SME1E086.XLS	02	CL1	C01	1	-0.2	5.2
SME1E086.XLS	01	WU1	C01	9	-0.2	-7.0
SME1E086.XLS	01	WU1	C01	8	-0.2	-0.9
SME1E086.XLS	01	WU1	C01	7	-0.2	-7.0
SME1E086.XLS	01	WU1	C01	6	1.9	5.2
SME1E086.XLS	01	WU1	C01	5	-0.2	5.2
SME1E086.XLS	01	WU1	C01	4	-0.2	-0.9
SME1E086.XLS	01	WU1	C01	3	-0.2	35.8
SME1E086.XLS	01	WU1	C01	26	-0.2	5.2
SME1E086.XLS	01	WU1	C01	25	-0.2	-0.9

NOTES: Activity reported in net dpm/100 cm².

Underlined values exceed the associated MDA.

Bold values exceed 100.00 dpm/100 cm² (beta activity) and/or 20.00 dpm/100 cm² (alpha activity).



Maine Yankee Atomic Power Plant Site Characterization

03/29/98

Removable Contamination

Survey Package : A1100 SURFACES & STRUCTURES
 Low Level Waste Storage Building - Elevation 21 ft.

RESULTS LISTING - SORTED BY SURFACE CODE

XLS FILE	UNIT	SURFACE	REASON	MSRMNT LOCATION	ALPHA	BETA
SME1E086.XLS	01	WU1	C01	24	1.9	-7.0
SME1E086.XLS	01	WU1	C01	23	1.9	11.3
SME1E086.XLS	01	WU1	C01	22	1.9	5.2
SME1E086.XLS	01	WU1	C01	21	1.9	-7.0
SME1E086.XLS	01	WU1	C01	20	-0.2	5.2
SME1E086.XLS	01	WU1	C01	2	-0.2	-7.0
SME1E086.XLS	01	WU1	C01	19	-0.2	-7.0
SME1E086.XLS	01	WU1	C01	18	1.9	11.3
SME1E086.XLS	01	WU1	C01	17	-0.2	5.2
SME1E086.XLS	01	WU1	C01	16	4.1	5.2
SME1E086.XLS	01	WU1	C01	15	1.9	-0.9
SME1E086.XLS	01	WU1	C01	14	-0.2	-0.9
SME1E086.XLS	01	WU1	C01	13	1.9	-7.0
SME1E086.XLS	01	WU1	C01	12	-0.2	-0.9
SME1E086.XLS	01	WU1	C01	11	1.9	-7.0
SME1E086.XLS	01	WU1	C01	10	-0.2	-7.0
SME1E086.XLS	01	WU1	C01	1	-0.2	17.4
SME1E086.XLS	01	WL1	C01	9	-0.2	-0.9
SME1E086.XLS	01	WL1	C01	8	1.9	-7.0
SME1E086.XLS	01	WL1	C01	7	-0.2	-7.0
SME1E086.XLS	01	WL1	C01	6	-0.2	5.2
SME1E086.XLS	01	WL1	C01	5	-0.2	-0.9
SME1E086.XLS	01	WL1	C01	45	-0.2	-7.0
SME1E086.XLS	01	WL1	C01	44	-0.2	-7.0
SME1E086.XLS	01	WL1	C01	43	1.9	-7.0
SME1E086.XLS	01	WL1	C01	42	-0.2	-0.9
SME1E086.XLS	01	WL1	C01	41	-0.2	-7.0
SME1E086.XLS	01	WL1	C01	40	1.9	-0.9
SME1E086.XLS	01	WL1	C01	4	-0.2	-7.0
SME1E086.XLS	01	WL1	C01	39	-0.2	-0.9
SME1E086.XLS	01	WL1	C01	38	-0.2	11.3
SME1E086.XLS	01	WL1	C01	37	-0.2	-0.9
SME1E086.XLS	01	WL1	C01	36	-0.2	-7.0
SME1E086.XLS	01	WL1	C01	35	-0.2	5.2
SME1E086.XLS	01	WL1	C01	34	-0.2	5.2
SME1E086.XLS	01	WL1	C01	33	-0.2	5.2
SME1E086.XLS	01	WL1	C01	32	-0.2	23.5
SME1E086.XLS	01	WL1	C01	31	-0.2	5.2
SME1E086.XLS	01	WL1	C01	30	-0.2	-7.0
SME1E086.XLS	01	WL1	C01	3	-0.2	-7.0

NOTES: Activity reported in net dpm/100 cm².

Underlined values exceed the associated MDA.

Bold values exceed 100.00 dpm/100 cm² (beta activity) and/or 20.00 dpm/100 cm² (alpha activity).



Maine Yankee Atomic Power Plant Site Characterization

03/29/98

Removable Contamination

Survey Package : A1100 SURFACES & STRUCTURES
 Low Level Waste Storage Building - Elevation 21 ft.

RESULTS LISTING - SORTED BY SURFACE CODE

XLS FILE	UNIT	SURFACE	REASON	MSRMNT LOCATION	ALPHA	BETA
SME1E086.XLS	01	WL1	C01	29	-0.2	-0.9
SME1E086.XLS	01	WL1	C01	28	-0.2	-0.9
SME1E086.XLS	01	WL1	C01	27	-0.2	-0.9
SME1E086.XLS	01	WL1	C01	26	-0.2	5.2
SME1E086.XLS	01	WL1	C01	25	-0.2	-7.0
SME1E086.XLS	01	WL1	C01	24	-0.2	-7.0
SME1E086.XLS	01	WL1	C01	23	-0.2	-7.0
SME1E086.XLS	01	WL1	C01	22	-0.2	-0.9
SME1E086.XLS	01	WL1	C01	21	-0.2	-0.9
SME1E086.XLS	01	WL1	C01	20	-0.2	-7.0
SME1E086.XLS	01	WL1	C01	2	1.9	-0.9
SME1E086.XLS	01	WL1	C01	19	-0.2	17.4
SME1E086.XLS	01	WL1	C01	18	-0.2	5.2
SME1E086.XLS	01	WL1	C01	17	-0.2	-7.0
SME1E086.XLS	01	WL1	C01	16	-0.2	-0.9
SME1E086.XLS	01	WL1	C01	15	-0.2	-0.9
SME1E086.XLS	01	WL1	C01	14	-0.2	-0.9
SME1E086.XLS	01	WL1	C01	13	-0.2	-7.0
SME1E086.XLS	01	WL1	C01	12	-0.2	-7.0
SME1E086.XLS	01	WL1	C01	11	-0.2	5.2
SME1E086.XLS	01	WL1	C01	10	-0.2	-0.9
SME1E086.XLS	01	WL1	C01	1	-0.2	11.3
SME1E086.XLS	01	SW1	C01	4	-0.2	-0.9
SME1E086.XLS	01	SW1	C01	3	-0.2	-0.9
SME1E086.XLS	01	SW1	C01	2	-0.2	5.2
SME1E086.XLS	01	SW1	C01	1	-0.2	-0.9
SME1E086.XLS	01	FL1	C01	9	-0.2	11.3
SME1E086.XLS	01	FL1	C01	8	-0.2	5.2
SME1E086.XLS	01	FL1	C01	7	-0.2	-7.0
SME1E086.XLS	01	FL1	C01	6	-0.2	11.3
SME1E086.XLS	01	FL1	C01	5	-0.2	-0.9
SME1E086.XLS	01	FL1	C01	4	-0.2	-0.9
SME1E086.XLS	01	FL1	C01	30	-0.2	5.2
SME1E086.XLS	01	FL1	C01	3	-0.2	5.2
SME1E086.XLS	01	FL1	C01	29	-0.2	-0.9
SME1E086.XLS	01	FL1	C01	28	-0.2	-0.9
SME1E086.XLS	01	FL1	C01	27	-0.2	-0.9
SME1E086.XLS	01	FL1	C01	26	-0.2	-0.9
SME1E086.XLS	01	FL1	C01	25	-0.2	-0.9
SME1E086.XLS	01	FL1	C01	24	-0.2	-0.9

NOTES: Activity reported in net dpm/100 cm².
 Underlined values exceed the associated MDA.
 Bold values exceed 100.00 dpm/100 cm² (beta activity) and/or 20.00 dpm/100 cm² (alpha activity).

Maine Yankee Atomic Power Plant Site Characterization

03/29/98

Removable Contamination

Survey Package : A1100 SURFACES & STRUCTURES
 Low Level Waste Storage Building - Elevation 21 ft.

RESULTS LISTING - SORTED BY SURFACE CODE

XLS FILE	UNIT	SURFACE	REASON	MSRMNT LOCATION	ALPHA	BETA
SME1E086.XLS	01	FL1	C01	23	-0.2	-7.0
SME1E086.XLS	01	FL1	C01	22	-0.2	-7.0
SME1E086.XLS	01	FL1	C01	21	-0.2	-7.0
SME1E086.XLS	01	FL1	C01	20	1.9	-0.9
SME1E086.XLS	01	FL1	C01	2	1.9	5.2
SME1E086.XLS	01	FL1	C01	19	-0.2	17.4
SME1E086.XLS	01	FL1	C01	18	-0.2	-0.9
SME1E086.XLS	01	FL1	C01	17	-0.2	-0.9
SME1E086.XLS	01	FL1	C01	16	-0.2	-0.9
SME1E086.XLS	01	FL1	C01	15	-0.2	5.2
SME1E086.XLS	01	FL1	C01	14	-0.2	11.3
SME1E086.XLS	01	FL1	C01	13	-0.2	5.2
SME1E086.XLS	01	FL1	C01	12	-0.2	-0.9
SME1E086.XLS	01	FL1	C01	11	-0.2	-7.0
SME1E086.XLS	01	FL1	C01	10	-0.2	-7.0
SME1E086.XLS	01	FL1	C01	1	-0.2	5.2
SME1E086.XLS	01	EQ2	C01	5	-0.2	5.2
SME1E086.XLS	01	EQ2	C01	4	1.9	-7.0
SME1E086.XLS	01	EQ2	C01	3	-0.2	-0.9
SME1E086.XLS	01	EQ2	C01	2	1.9	-7.0
SME1E086.XLS	01	EQ2	C01	1	1.9	5.2
SME1E086.XLS	01	EQ1	C01	6	-0.2	-0.9
SME1E086.XLS	01	EQ1	C01	5	-0.2	-0.9
SME1E086.XLS	01	EQ1	C01	4	-0.2	5.2
SME1E086.XLS	01	EQ1	C01	3	-0.2	-0.9
SME1E086.XLS	01	EQ1	C01	2	-0.2	-0.9
SME1E086.XLS	01	EQ1	C01	1	-0.2	-0.9
SME1E086.XLS	01	CL2	C01	9	-0.2	-7.0
SME1E086.XLS	01	CL2	C01	8	1.9	5.2
SME1E086.XLS	01	CL2	C01	7	-0.2	5.2
SME1E086.XLS	01	CL2	C01	6	-0.2	-0.9
SME1E086.XLS	01	CL2	C01	5	-0.2	-0.9
SME1E086.XLS	01	CL2	C01	4	-0.2	-0.9
SME1E086.XLS	01	CL2	C01	3	-0.2	-0.9
SME1E086.XLS	01	CL2	C01	2	1.9	-7.0
SME1E086.XLS	01	CL2	C01	18	-0.2	-0.9
SME1E086.XLS	01	CL2	C01	17	-0.2	-0.9
SME1E086.XLS	01	CL2	C01	16	-0.2	-7.0
SME1E086.XLS	01	CL2	C01	15	-0.2	5.2
SME1E086.XLS	01	CL2	C01	14	-0.2	5.2

NOTES: Activity reported in net dpm/100 cm².

Underlined values exceed the associated MDA.

Bold values exceed 100.00 dpm/100 cm² (beta activity) and/or 20.00 dpm/100 cm² (alpha activity).



Maine Yankee Atomic Power Plant Site Characterization

03/29/98

Removable Contamination

Survey Package : A1100 SURFACES & STRUCTURES
 Low Level Waste Storage Building - Elevation 21 ft.

RESULTS LISTING - SORTED BY SURFACE CODE

XLS FILE	UNIT	SURFACE	REASON	MSRMNT LOCATION	ALPHA	BETA
SME1E086.XLS	01	CL2	C01	13	-0.2	-0.9
SME1E086.XLS	01	CL2	C01	12	1.9	-7.0
SME1E086.XLS	01	CL2	C01	11	-0.2	-0.9
SME1E086.XLS	01	CL2	C01	10	-0.2	-7.0
SME1E086.XLS	01	CL2	C01	1	-0.2	11.3
SME1E086.XLS	01	CL1	C01	9	-0.2	-7.0
SME1E086.XLS	01	CL1	C01	8	-0.2	-0.9
SME1E086.XLS	01	CL1	C01	7	-0.2	11.3
SME1E086.XLS	01	CL1	C01	6	-0.2	5.2
SME1E086.XLS	01	CL1	C01	5	-0.2	-0.9
SME1E086.XLS	01	CL1	C01	4	-0.2	-7.0
SME1E086.XLS	01	CL1	C01	36	-0.2	-0.9
SME1E086.XLS	01	CL1	C01	35	-0.2	5.2
SME1E086.XLS	01	CL1	C01	34	-0.2	-7.0
SME1E086.XLS	01	CL1	C01	33	-0.2	23.5
SME1E086.XLS	01	CL1	C01	32	-0.2	-7.0
SME1E086.XLS	01	CL1	C01	31	-0.2	11.3
SME1E086.XLS	01	CL1	C01	30	-0.2	-0.9
SME1E086.XLS	01	CL1	C01	3	-0.2	-0.9
SME1E086.XLS	01	CL1	C01	29	-0.2	5.2
SME1E086.XLS	01	CL1	C01	28	-0.2	-0.9
SME1E086.XLS	01	CL1	C01	27	-0.2	-0.9
SME1E086.XLS	01	CL1	C01	26	-0.2	-7.0
SME1E086.XLS	01	CL1	C01	25	-0.2	-7.0
SME1E086.XLS	01	CL1	C01	24	-0.2	-0.9
SME1E086.XLS	01	CL1	C01	23	-0.2	-0.9
SME1E086.XLS	01	CL1	C01	22	-0.2	-0.9
SME1E086.XLS	01	CL1	C01	21	-0.2	-0.9
SME1E086.XLS	01	CL1	C01	20	-0.2	-7.0
SME1E086.XLS	01	CL1	C01	2	-0.2	-7.0
SME1E086.XLS	01	CL1	C01	19	-0.2	5.2
SME1E086.XLS	01	CL1	C01	18	-0.2	11.3
SME1E086.XLS	01	CL1	C01	17	-0.2	-0.9
SME1E086.XLS	01	CL1	C01	16	-0.2	-0.9
SME1E086.XLS	01	CL1	C01	15	-0.2	-7.0
SME1E086.XLS	01	CL1	C01	14	-0.2	-7.0
SME1E086.XLS	01	CL1	C01	13	-0.2	-0.9
SME1E086.XLS	01	CL1	C01	12	-0.2	-7.0
SME1E086.XLS	01	CL1	C01	11	-0.2	5.2
SME1E086.XLS	01	CL1	C01	10	-0.2	5.2

NOTES: Activity reported in net dpm/100 cm².
 Underlined values exceed the associated MDA.
 Bold values exceed 100.00 dpm/100 cm² (beta activity) and/or 20.00 dpm/100 cm² (alpha activity).



Maine Yankee Atomic Power Plant Site Characterization

03/29/98

Removable Contamination

Survey Package : A1100 SURFACES & STRUCTURES
 Low Level Waste Storage Building - Elevation 21 ft.

RESULTS LISTING - SORTED BY SURFACE CODE

XLS FILE	UNIT	SURFACE	REASON	MSRMNT LOCATION	ALPHA	BETA
SME1E086.XLS	01	CL1	C01	1	-0.2	-7.0

NOTES: Activity reported in net dpm/100 cm².
 Underlined values exceed the associated MDA.
 Bold values exceed 100.00 dpm/100 cm² (beta activity) and/or 20.00 dpm/100 cm² (alpha activity).
 201 results are listed.



Maine Yankee Atomic Power Plant Site Characterization

DATAFILE & TENNELEC CALIBRATION SUMMARY

03/29/98

Removable Contamination

Survey Package : A1100 SURFACES & STRUCTURES
Low Level Waste Storage Building - Elevation 21 ft.

SURVEYDATE	XLS FILE	INST ID	S/N	CAL DUE	LAB TECHNICIAN
3/11/98	SME1E086.XLS	1	15632	8/5/98	JWD

CALIBRATION DATE VERIFIED AS ACCEPTABLE



Maine Yankee Atomic Power Plant Site Characterization

03/31/98

Exposure Rate Measurements

Survey Package A1100 SURFACES & STRUCTURES
 Low Level Waste Storage Building - Elevation 21 ft.

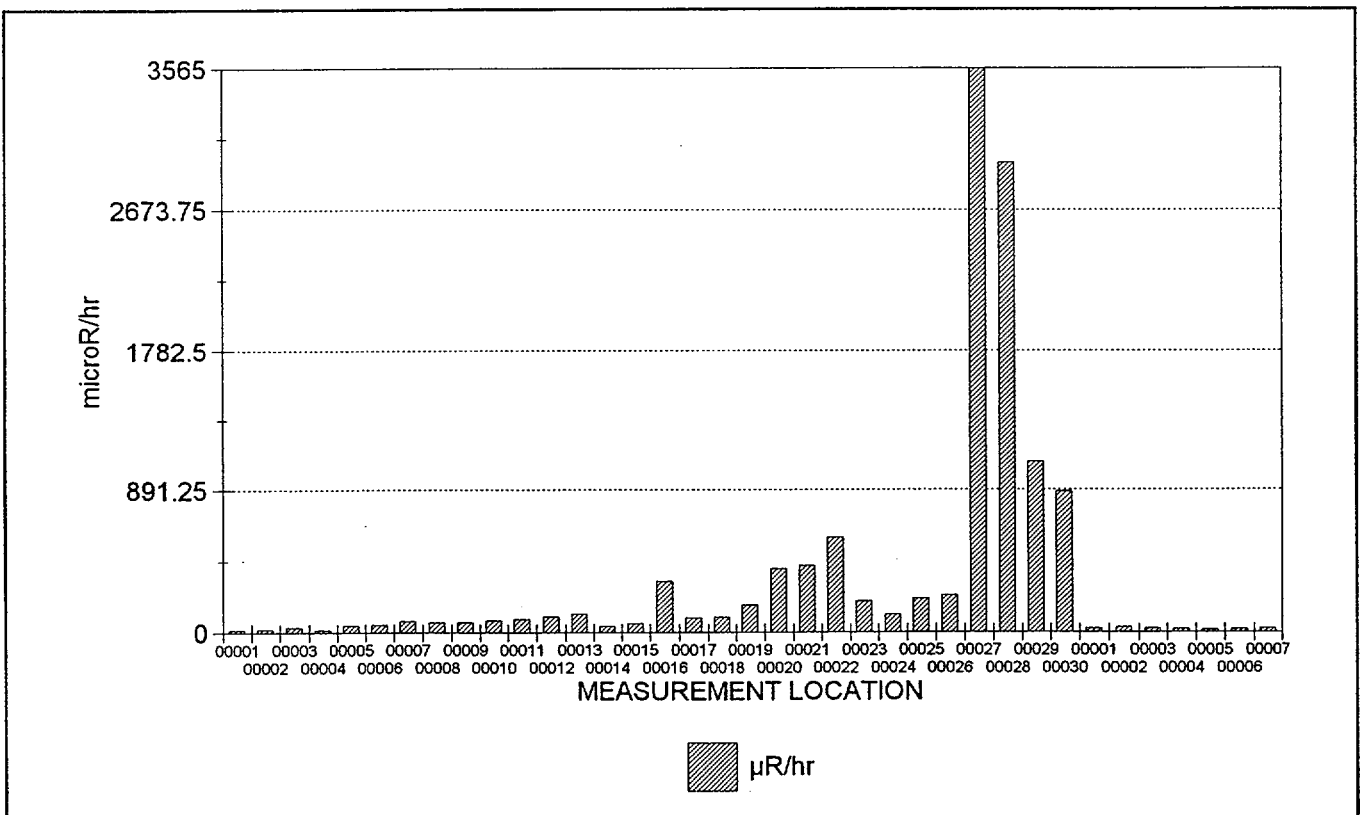
STATISTICAL SUMMARY

TESTS PERFORMED

	$\mu\text{R/hr}$
Mean	334.0
Maximum	3,563.3
Minimum	15.1
Standard Deviation	752.4

Samples reported satisfy samples prescribed YES

Samples Reported	37
Samples Prescribed	37



37 RESULTS ARE GRAPHED



Maine Yankee Atomic Power Plant Site Characterization

03/31/98

Exposure Rate Measurements

Survey Package : A1100 SURFACES & STRUCTURES
 Low Level Waste Storage Building - Elevation 21 ft.

RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	RESULT
563 (2)	01	FL1	B0002	C01	60.00	00001	<u>15.1</u>
563 (2)	01	FL1	B0002	C01	60.00	00002	<u>18.9</u>
563 (2)	01	FL1	B0002	C01	60.00	00003	<u>32.5</u>
563 (2)	01	FL1	B0002	C01	60.00	00004	<u>17.0</u>
563 (2)	01	FL1	B0002	C01	60.00	00005	<u>45.5</u>
563 (2)	01	FL1	B0002	C01	60.00	00006	<u>47.4</u>
563 (2)	01	FL1	B0002	C01	60.00	00007	<u>73.7</u>
563 (2)	01	FL1	B0002	C01	60.00	00008	<u>62.5</u>
563 (2)	01	FL1	B0002	C01	60.00	00009	<u>66.3</u>
563 (2)	01	FL1	B0002	C01	60.00	00010	<u>77.0</u>
563 (2)	01	FL1	B0002	C01	60.00	00011	<u>85.4</u>
563 (2)	01	FL1	B0002	C01	60.00	00012	<u>101.2</u>
563 (2)	01	FL1	B0002	C01	60.00	00013	<u>118.3</u>
563 (2)	01	FL1	B0002	C01	60.00	00014	<u>40.6</u>
563 (2)	01	FL1	B0002	C01	60.00	00015	<u>57.3</u>
563 (2)	01	FL1	B0002	C01	60.00	00016	<u>322.3</u>
563 (2)	01	FL1	B0002	C01	60.00	00017	<u>92.4</u>
563 (2)	01	FL1	B0002	C01	60.00	00018	<u>95.0</u>
563 (2)	01	FL1	B0002	C01	60.00	00019	<u>171.5</u>
563 (2)	01	FL1	B0002	C01	60.00	00020	<u>398.7</u>
563 (2)	01	FL1	B0002	C01	60.00	00021	<u>417.7</u>
563 (2)	01	FL1	B0002	C01	60.00	00022	<u>596.2</u>
563 (2)	01	FL1	B0002	C01	60.00	00023	<u>197.4</u>
563 (2)	01	FL1	B0002	C01	60.00	00024	<u>111.7</u>
563 (2)	01	FL1	B0002	C01	60.00	00025	<u>212.3</u>
563 (2)	01	FL1	B0002	C01	60.00	00026	<u>231.5</u>
563 (2)	01	FL1	B0002	C01	60.00	00027	<u>3563.3</u>
563 (2)	01	FL1	B0002	C01	60.00	00028	<u>2970.7</u>
563 (2)	01	FL1	B0002	C01	60.00	00029	<u>1072.4</u>
563 (2)	01	FL1	B0002	C01	60.00	00030	<u>881.8</u>
563 (2)	02	FL1	B0002	C01	60.00	00001	<u>24.7</u>
563 (2)	02	FL1	B0002	C01	60.00	00002	<u>30.3</u>
563 (2)	02	FL1	B0002	C01	60.00	00003	<u>24.4</u>
563 (2)	02	FL1	B0002	C01	60.00	00004	<u>22.0</u>
563 (2)	02	FL1	B0002	C01	60.00	00005	<u>17.4</u>
563 (2)	02	FL1	B0002	C01	60.00	00006	<u>21.1</u>
563 (2)	02	FL1	B0002	C01	60.00	00007	<u>22.9</u>

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 $\mu\text{R/hr}$.
 37 results are listed.



Maine Yankee Atomic Power Plant Site Characterization

DOWNLOAD FILE & SURVEY INSTRUMENTATION CALIBRATION SUMMARY

03/29/98

Exposure Rate Measurements

Survey Package: A1100 SURFACES & STRUCTURES

Low Level Waste Storage Building - Elevation 21 ft.

SURVEY DATE	FILE #	M2350		DETECTOR			TECHNICIAN
		INST S/N	CAL DUE	MODEL	S/N	CAL DUE	
2/6/98	563 (2)	98620	3/20/98	44-2	129304	4/19/98	DRK2986

CALIBRATION DATES VERIFIED AS ACCEPTABLE



Maine Yankee Atomic Power Plant Site Characterization

04/28/98

CHARACTERIZATION SUMMARY

SURVEY PACKAGE NUMBER A1200

SURFACES & STRUCTURES

PACKAGE DESCRIPTION

RCA Building - Elevation 21 ft.

 SURVEY AREA DESCRIPTION

RCA Building - 21 ft

GENERAL HISTORICAL INFORMATION (Operational history, etc.)

The building was used for transfer, storage and dewatering of resins. It also contains numerous high radiation areas, mostly in shielded cubicles. There is an underground tunnel to the resin holding tank. All floor drains are posted contaminated. Construction is heavy steel frame with concrete floors. Lower walls are concrete, upper walls are corrugated metal. Numerous chemical/acid transfer lines are on the wall. HVAC ducts are in the overhead.

SUMMARY OF CHARACTERIZATION ACTIVITIES

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

Collected 64 direct measurements for total beta activity at the survey measurement locations indicated in the results listing report. Due to elevated background radioactivity in the survey area, a scan of a two meter area encompassing each survey measurement location was not performed. Each direct measurement for total beta activity was accompanied by a corresponding background measurement at the same location. The background was used in the calculation of net dpm/100cm².

Collected smear samples to analyze for removable alpha and beta activity at the same 64 survey locations as the direct measurements for total beta activity.

Collected one meter exposure rate measurements at 22 survey locations indicated in the results listing report.

Collected 1 composite surface debris sample from floor surface 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 36 direct measurements for total beta activity above 2000 dpm/100cm². There were 23 direct measurements for total beta activity above the individual measurements' MDA (Maximum MDA was 26,286 dpm/100cm²). The maximum measurement result was 2,233,580 dpm/100cm².
- o There were 29 measurements for removable beta activity above MDA (37 dpm/100cm²) and 11 results greater than 100 dpm/100cm². The maximum measurement result was 2,073 dpm/100cm².
- o There were no measurements for removable alpha activity above MDA (8.6 dpm/100cm²).
- o The average and maximum exposure rate measurement results were 2.1 mR/hr and 12.4 mR/hr, respectively.
- o The sample analyzed by gamma spectroscopy indicated plant-derived radionuclide activity above MDA. The analysis of the sample indicated the presence of Co-60 and Cs-137.

CHARACTERIZATION SUMMARY

04/28/98

REFERENCES (Documents, Interviews)



Maine Yankee Atomic Power Plant Site Characterization

SUMMARY OF SURVEY UNIT(S)

03/29/98

OUTPUT BATCH SN = 268

PACKAGE A1200 SURFACES & STRUCTURES
 RCA Building - Elevation 21 ft.

UNIT(S)

01 - RCA Building

SURFACE(S)

CL1 (Ceiling)
 EQ1 (Plant Equipment (exterior))
 FD1 (Floor Drains)
 FL1 (Floor Surface)
 WL1 (Lower Wall Surfaces (interior))
 WU1 (Upper Wall Surfaces (interior))

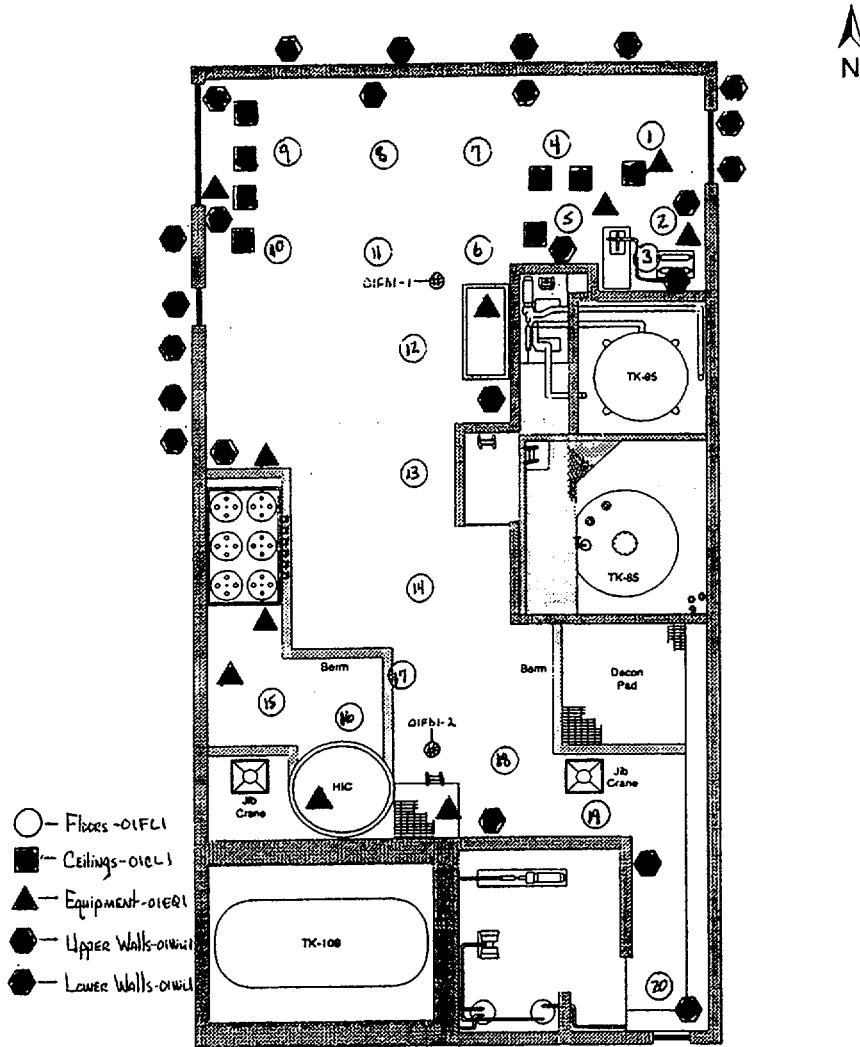
REASON(S) CHARACTERIZATION SURVEY (C01)

MATERIALS	MAT'L CODE	MATERIAL DESCRIPTION	BETA BKGD (dpm/100 cm²)
	B0001	CONCRETE - PAINTED (INTERIOR)	478.0
	B0002	CONCRETE - BARE (INTERIOR)	665.0
	B0036	METAL - PAINTED	0.0
	B9999	OTHER	0.0

Maine Yankee Atomic Power Plant Site Characterization

SURVEY PACKAGE A1200

RCA Storage Building 21 ft
* A1200





Maine Yankee Atomic Power Plant Site Characterization

03/31/98

Direct Measurements For Total Beta Activity

Survey Package A1200 SURFACES & STRUCTURES
RCA Building - Elevation 21 ft.

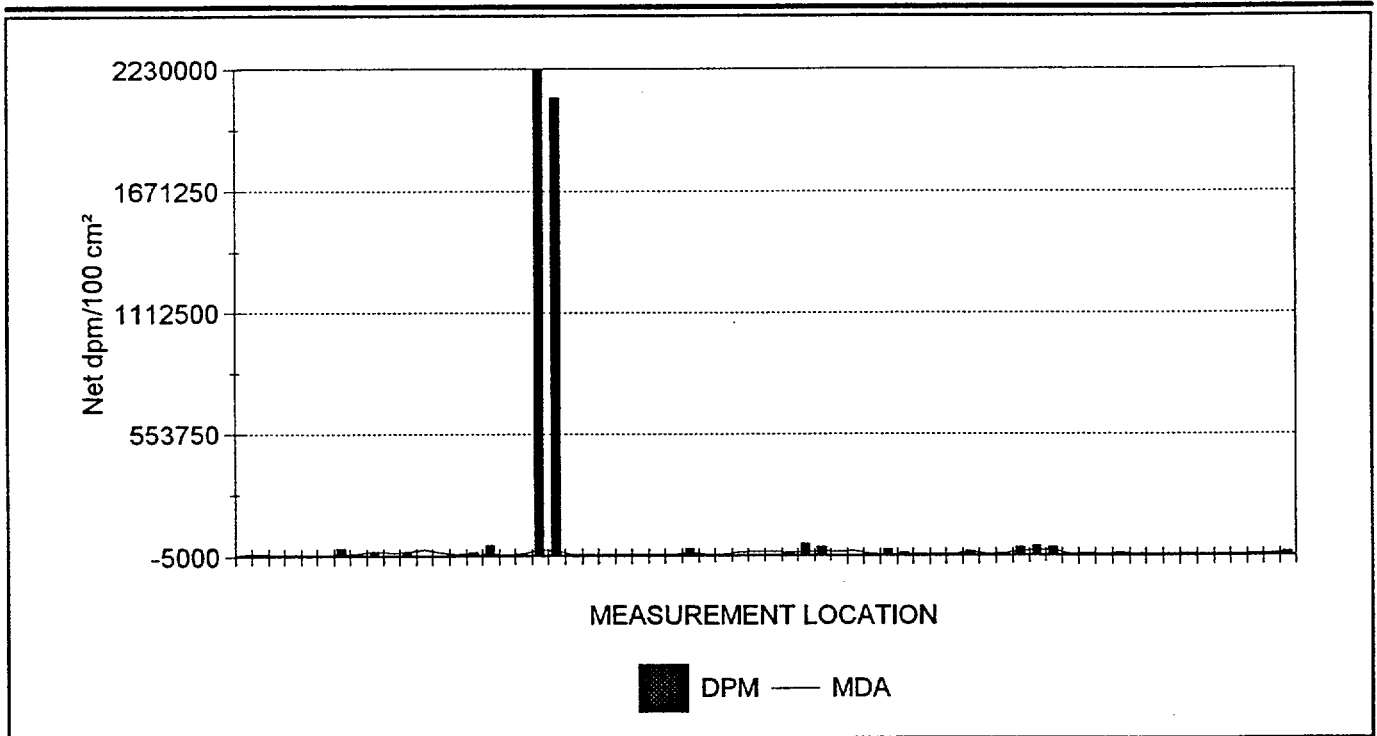
STATISTICAL SUMMARY

TESTS PERFORMED

	Net dpm/100 cm ²
Mean	73,938.8
Maximum	2,233,579.9
Minimum	-60,167.7
Standard Deviation	379,578.7
MDA	26,285.8

Samples reported satisfy samples prescribed	YES
MDA <2000 net dpm/100 cm ²	NO
Results above 2000 net dpm/100 cm ²	36
Number of results above MDA	23

Samples Reported	64
Samples Prescribed	64



64 RESULTS ARE GRAPHED



Maine Yankee Atomic Power Plant Site Characterization

03/31/98

Direct Measurements For Total Beta Activity

Survey Package : A1200 SURFACES & STRUCTURES
RCA Building - Elevation 21 ft.

RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	MDA	RESULT
598 (2)	01	CL1	B0001	C01	60	00001	7,313.8	<u>2,843.7</u>
598 (2)	01	CL1	B0001	C01	60	00002	5,549.4	<u>2,093.7</u>
600 (2)	01	CL1	B0001	C01	60	00005	3,914.4	<u>2,613.0</u>
600 (2)	01	CL1	B0001	C01	60	00006	3,376.1	<u>3,512.2</u>
600 (2)	01	CL1	B0001	C01	60	00007	3,941.6	477.4
600 (2)	01	CL1	B0001	C01	60	00008	3,397.3	<u>2,332.0</u>
598 (2)	01	CL1	B9999	C01	60	00003	7,872.8	<u>33,860.2</u>
598 (2)	01	CL1	B9999	C01	60	00004	8,997.2	<u>8,036.4</u>
590 (2)	01	EQ1	B9999	C01	60	00001	19,403.	<u>18,927.1</u>
590 (2)	01	EQ1	B9999	C01	60	00002	11,916.	1,874.6
590 (2)	01	EQ1	B9999	C01	60	00003	16,484.	<u>19,108.5</u>
590 (2)	01	EQ1	B9999	C01	60	00004	26,285.	-60,167.7
590 (2)	01	EQ1	B9999	C01	60	00005	12,024.	-48,315.5
590 (2)	01	EQ1	B9999	C01	60	00006	6,875.2	<u>2,539.7</u>
598 (2)	01	EQ1	B9999	C01	60	00007	4,187.8	<u>14,840.6</u>
598 (2)	01	EQ1	B9999	C01	60	00008	5,308.3	<u>46,879.3</u>
598 (2)	01	EQ1	B9999	C01	60	00009	5,105.8	<u>3,750.3</u>
598 (2)	01	EQ1	B9999	C01	60	00010	6,220.6	<u>8,465.1</u>
588 (2)	01	FD1	B9999	C01	60	00001	23,723.	<u>2,233,579.9</u>
588 (2)	01	FD1	B9999	C01	60	00002	20,917.	<u>2,101,367.5</u>
588 (2)	01	FL1	B0001	C01	60	00001	3,337.0	1,122.9
588 (2)	01	FL1	B0001	C01	60	00002	4,243.1	-2,851.7
588 (2)	01	FL1	B0001	C01	60	00003	4,671.9	<u>2,503.0</u>
588 (2)	01	FL1	B0001	C01	60	00004	3,754.6	<u>2,337.4</u>
588 (2)	01	FL1	B0001	C01	60	00005	4,002.3	-1,030.0
588 (2)	01	FL1	B0001	C01	60	00006	4,218.8	1,674.9
588 (2)	01	FL1	B0001	C01	60	00007	3,661.9	74.0
588 (2)	01	FL1	B0001	C01	60	00008	13,269.	<u>30,822.3</u>
588 (2)	01	FL1	B0001	C01	60	00009	2,892.0	570.9
588 (2)	01	FL1	B0001	C01	60	00012	4,947.9	-1,416.5
588 (2)	01	FL1	B0001	C01	60	00013	13,007.	-2,796.5
588 (2)	01	FL1	B0001	C01	60	00014	14,551.	-23,994.6
588 (2)	01	FL1	B0001	C01	60	00015	13,981.	1,288.5
588 (2)	01	FL1	B0001	C01	60	00016	11,503.	<u>11,666.7</u>
588 (2)	01	FL1	B0001	C01	60	00017	11,371.	<u>53,014.0</u>
588 (2)	01	FL1	B0001	C01	60	00018	17,573.	<u>37,888.3</u>
588 (2)	01	FL1	B0001	C01	60	00019	13,988.	-3,790.2
588 (2)	01	FL1	B0001	C01	60	00020	16,986.	-257.1
588 (2)	01	FL1	B0002	C01	60	00010	3,661.9	<u>6,014.6</u>
588 (2)	01	FL1	B0002	C01	60	00011	5,009.4	<u>25,722.2</u>

NOTES: Activity reported in net dpm/100 cm². Count times are reported in seconds.
Underlined values exceed the MDA.
Bold values exceed 2000 dpm/100 cm².



Maine Yankee Atomic Power Plant Site Characterization

03/31/98

Direct Measurements For Total Beta Activity

Survey Package : A1200 SURFACES & STRUCTURES
RCA Building - Elevation 21 ft.

RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	MDA	RESULT
590 (2)	01	WL1	B0001	C01	60	00001	4,412.2	<u>12,825.4</u>
590 (2)	01	WL1	B0001	C01	60	00002	3,755.9	-1,566.5
590 (2)	01	WL1	B0001	C01	60	00003	3,938.6	1,396.6
590 (2)	01	WL1	B0001	C01	60	00004	3,141.4	1,457.0
590 (2)	01	WL1	B0001	C01	60	00005	16,022.	<u>18,872.4</u>
590 (2)	01	WL1	B0001	C01	60	00006	4,744.0	-3,017.7
590 (2)	01	WL1	B0001	C01	60	00007	5,442.5	<u>6,778.4</u>
590 (2)	01	WL1	B0001	C01	60	00008	17,808.	<u>34,897.0</u>
590 (2)	01	WL1	B0001	C01	60	00009	21,524.	<u>40,339.3</u>
590 (2)	01	WL1	B0001	C01	60	00010	21,124.	<u>36,166.9</u>
590 (2)	01	WL1	B0001	C01	60	00011	4,787.0	1,396.6
590 (2)	01	WL1	B0001	C01	60	00012	5,575.8	-2,171.2
598 (2)	01	WU1	B0001	C01	60	00005	4,583.5	700.7
600 (2)	01	WU1	B0001	C01	60	00011	6,642.2	<u>10,143.9</u>
600 (2)	01	WU1	B0001	C01	60	00012	3,718.5	1,376.6
598 (2)	01	WU1	B9999	C01	60	00001	3,599.3	-964.4
598 (2)	01	WU1	B9999	C01	60	00002	4,426.7	160.7
598 (2)	01	WU1	B9999	C01	60	00003	7,248.5	<u>6,536.3</u>
598 (2)	01	WU1	B9999	C01	60	00004	4,023.0	321.5
598 (2)	01	WU1	B9999	C01	60	00006	4,070.8	857.2
598 (2)	01	WU1	B9999	C01	60	00007	5,010.9	<u>3,268.2</u>
598 (2)	01	WU1	B9999	C01	60	00008	6,038.9	<u>7,018.5</u>
598 (2)	01	WU1	B9999	C01	60	00009	7,796.0	<u>2,410.9</u>
598 (2)	01	WU1	B9999	C01	60	00010	10,677.	<u>15,697.9</u>

NOTES: Activity reported in net dpm/100 cm². Count times are reported in seconds.
Underlined values exceed the MDA.
Bold values exceed 2000 dpm/100 cm².
64 results are listed.



Maine Yankee Atomic Power Plant Site Characterization

DOWNLOAD FILE & SURVEY INSTRUMENTATION CALIBRATION SUMMARY

03/31/98

Direct Measurements For Total Beta Activity

Survey Package : A1200 SURFACES & STRUCTURES
 RCA Building - Elevation 21 ft.

SURVEY DATE	FILE #	M2350		DETECTOR			PRE EFF	TECHNICIAN
		INST S/N	CAL DUE	MODEL	S/N	CAL DUE		
2/11/98	588 (2)	080498	4/8/98	44-40	PR090001	4/8/98	.12	CWI5440
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
2/11/98	590 (2)	126196	4/15/98	44-40	119453	4/16/98	.11	DJH2236
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
2/12/98	598 (2)	080498	4/8/98	44-40	PR090001	4/8/98	.12	CWI5440
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
2/13/98	600 (2)	126201	4/15/98	44-40	119455	4/29/98	.11	BSM0490
CALIBRATION DATES VERIFIED AS ACCEPTABLE								



Maine Yankee Atomic Power Plant Site Characterization

03/29/98

Removable Contamination - Gross Beta Activity

Survey Package A1200 SURFACES & STRUCTURES
RCA Building - Elevation 21 ft.

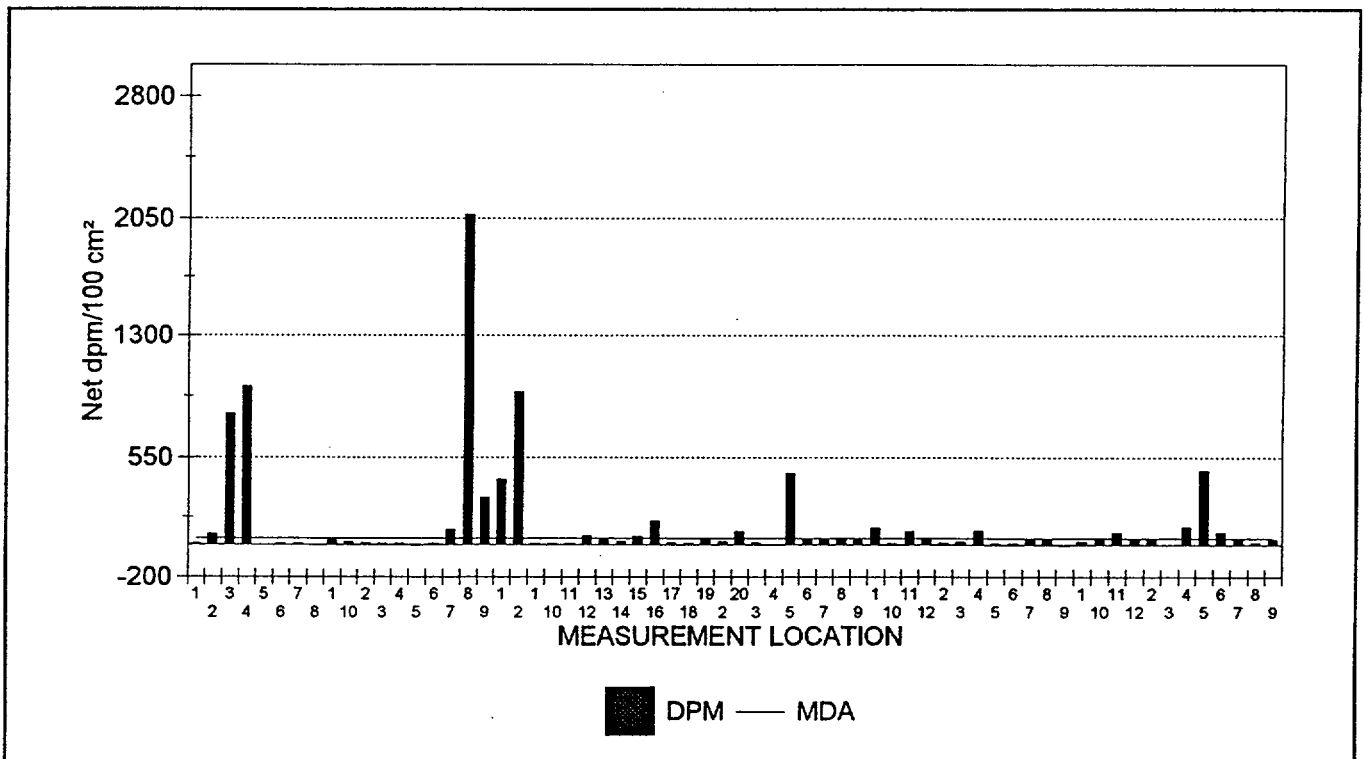
STATISTICAL SUMMARY

TESTS PERFORMED

	Net dpm/100 cm ²
Mean	128.7
Maximum	2,072.6
Minimum	-6.0
Standard Deviation	323.1
MDA	37.0

MDA <100 net dpm/100 cm ²	YES
Results above 100 net dpm/100 cm ²	11
Number of results above MDA	29

Samples Reported	64
Samples Prescribed	64



64 RESULTS ARE GRAPHED



Maine Yankee Atomic Power Plant Site Characterization

03/29/98

Removable Contamination - Gross Alpha Activity

Survey Package A1200 SURFACES & STRUCTURES
RCA Building - Elevation 21 ft.

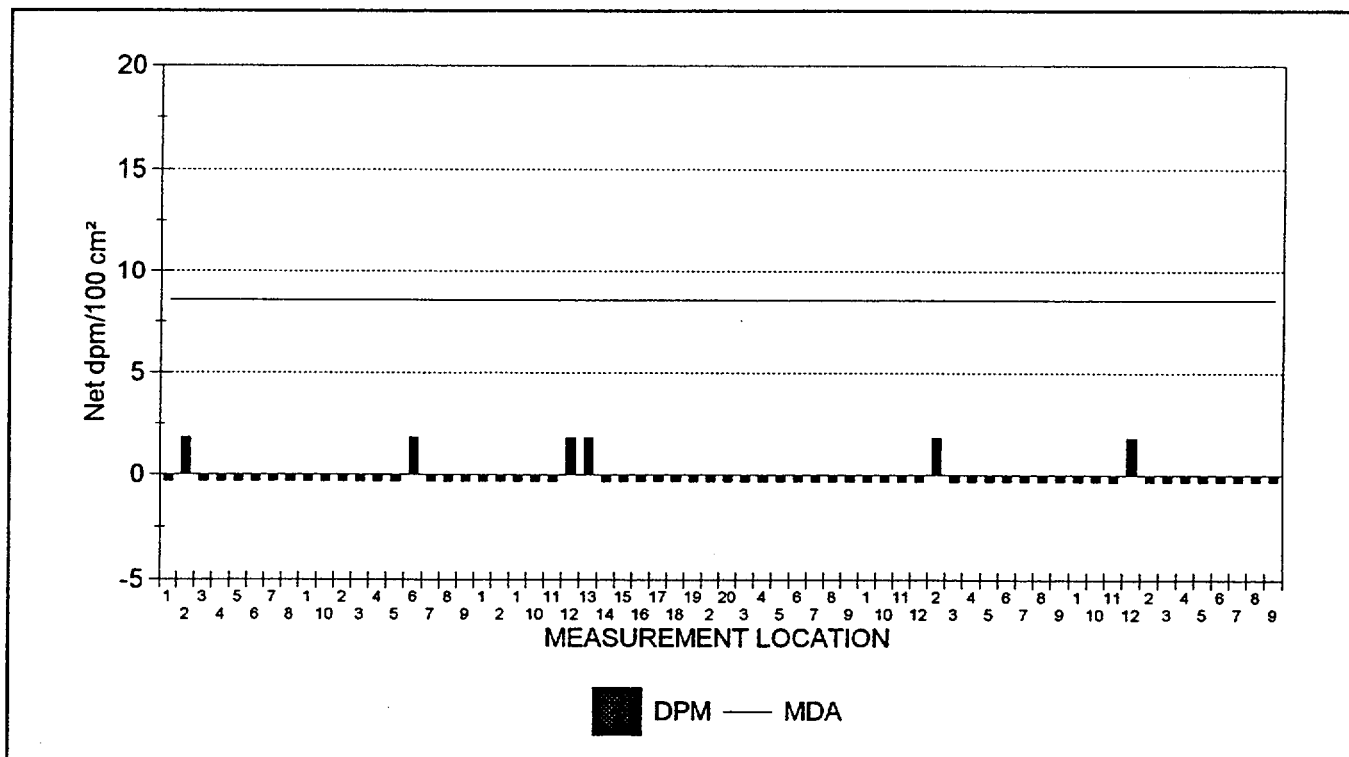
STATISTICAL SUMMARY

TESTS PERFORMED

	Net dpm/100 cm ²
Mean	-0.1
Maximum	1.8
Minimum	-0.3
Standard Deviation	0.6
MDA	8.6

MDA <10 net dpm/100 cm ²	YES
Results above 20 net dpm/100 cm ²	0
Number of results above MDA	0

Samples Reported	64
Samples Prescribed	64



64 RESULTS ARE GRAPHED



Maine Yankee Atomic Power Plant Site Characterization

03/29/98

Removable Contamination

Survey Package: A1200 SURFACES & STRUCTURES
RCA Building - Elevation 21 ft.

RESULTS LISTING - SORTED BY SURFACE CODE

XLS FILE	UNIT	SURFACE	REASON	MSRMNT LOCATION	ALPHA	BETA
SME1E044.XLS	01	WU1	C01	9	-0.3	31.2
SME1E044.XLS	01	WU1	C01	8	-0.3	12.6
SME1E044.XLS	01	WU1	C01	7	-0.3	37.4
SME1E044.XLS	01	WU1	C01	6	-0.3	74.7
SME1E044.XLS	01	WU1	C01	5	-0.3	465.6
SME1E044.XLS	01	WU1	C01	4	-0.3	<u>111.9</u>
SME1E044.XLS	01	WU1	C01	3	-0.3	0.2
SME1E044.XLS	01	WU1	C01	2	-0.3	37.4
SME1E044.XLS	01	WU1	C01	12	1.8	37.4
SME1E044.XLS	01	WU1	C01	11	-0.3	74.7
SME1E044.XLS	01	WU1	C01	10	-0.3	43.6
SME1E044.XLS	01	WU1	C01	1	-0.3	18.8
SME1E044.XLS	01	WL1	C01	9	-0.3	-6.0
SME1E044.XLS	01	WL1	C01	8	-0.3	31.2
SME1E044.XLS	01	WL1	C01	7	-0.3	31.2
SME1E044.XLS	01	WL1	C01	6	-0.3	6.4
SME1E044.XLS	01	WL1	C01	5	-0.3	6.4
SME1E044.XLS	01	WL1	C01	4	-0.3	87.1
SME1E044.XLS	01	WL1	C01	3	-0.3	18.8
SME1E044.XLS	01	WL1	C01	2	1.8	12.6
SME1E044.XLS	01	WL1	C01	12	-0.3	43.6
SME1E044.XLS	01	WL1	C01	11	-0.3	80.9
SME1E044.XLS	01	WL1	C01	10	-0.3	6.4
SME1E044.XLS	01	WL1	C01	1	-0.3	<u>105.7</u>
SME1E044.XLS	01	FL1	C01	9	-0.3	25.0
SME1E044.XLS	01	FL1	C01	8	-0.3	43.6
SME1E044.XLS	01	FL1	C01	7	-0.3	37.4
SME1E044.XLS	01	FL1	C01	6	-0.3	37.4
SME1E044.XLS	01	FL1	C01	5	-0.3	447.0
SME1E044.XLS	01	FL1	C01	4	-0.3	0.2
SME1E044.XLS	01	FL1	C01	3	-0.3	12.6
SME1E044.XLS	01	FL1	C01	20	-0.3	80.9
SME1E044.XLS	01	FL1	C01	2	-0.3	18.8
SME1E044.XLS	01	FL1	C01	19	-0.3	37.4
SME1E044.XLS	01	FL1	C01	18	-0.3	6.4
SME1E044.XLS	01	FL1	C01	17	-0.3	12.6
SME1E044.XLS	01	FL1	C01	16	-0.3	<u>149.1</u>
SME1E044.XLS	01	FL1	C01	15	-0.3	49.8
SME1E044.XLS	01	FL1	C01	14	-0.3	18.8
SME1E044.XLS	01	FL1	C01	13	1.8	25.0

NOTES: Activity reported in net dpm/100 cm².

Underlined values exceed the associated MDA.

Bold values exceed 100.00 dpm/100 cm² (beta activity) and/or 20.00 dpm/100 cm² (alpha activity).

Maine Yankee Atomic Power Plant Site Characterization

03/29/98

Removable Contamination

Survey Package : A1200 SURFACES & STRUCTURES
RCA Building - Elevation 21 ft.

RESULTS LISTING - SORTED BY SURFACE CODE

XLS FILE	UNIT	SURFACE	REASON	MSRMNT LOCATION	ALPHA	BETA
SME1E044.XLS	01	FL1	C01	12	1.8	56.1
SME1E044.XLS	01	FL1	C01	11	-0.3	6.4
SME1E044.XLS	01	FL1	C01	10	-0.3	6.4
SME1E044.XLS	01	FL1	C01	1	-0.3	6.4
SME1E044.XLS	01	FD1	C01	2	-0.3	<u>949.6</u>
SME1E044.XLS	01	FD1	C01	1	-0.3	<u>409.7</u>
SME1E044.XLS	01	EQ1	C01	9	-0.3	<u>298.0</u>
SME1E044.XLS	01	EQ1	C01	8	-0.3	<u>2,072.7</u>
SME1E044.XLS	01	EQ1	C01	7	-0.3	93.3
SME1E044.XLS	01	EQ1	C01	6	1.8	6.4
SME1E044.XLS	01	EQ1	C01	5	-0.3	-6.0
SME1E044.XLS	01	EQ1	C01	4	-0.3	6.4
SME1E044.XLS	01	EQ1	C01	3	-0.3	6.4
SME1E044.XLS	01	EQ1	C01	2	-0.3	12.6
SME1E044.XLS	01	EQ1	C01	10	-0.3	18.8
SME1E044.XLS	01	EQ1	C01	1	-0.3	25.0
SME1E044.XLS	01	CL1	C01	8	-0.3	0.2
SME1E044.XLS	01	CL1	C01	7	-0.3	6.4
SME1E044.XLS	01	CL1	C01	6	-0.3	6.4
SME1E044.XLS	01	CL1	C01	5	-0.3	0.2
SME1E044.XLS	01	CL1	C01	4	-0.3	<u>986.8</u>
SME1E044.XLS	01	CL1	C01	3	-0.3	<u>819.3</u>
SME1E044.XLS	01	CL1	C01	2	1.8	68.5
SME1E044.XLS	01	CL1	C01	1	-0.3	6.4

NOTES: Activity reported in net dpm/100 cm².
Underlined values exceed the associated MDA.
Bold values exceed 100.00 dpm/100 cm² (beta activity) and/or 20.00 dpm/100 cm² (alpha activity).
64 results are listed.



Maine Yankee Atomic Power Plant Site Characterization

DATAFILE & TENNELEC CALIBRATION SUMMARY

03/29/98

Removable Contamination

Survey Package : A1200 SURFACES & STRUCTURES
RCA Building - Elevation 21 ft.

SURVEYDATE	XLS FILE	INST ID	S/N	CAL DUE	LAB TECHNICIAN
3/4/98	SME1E044.XLS	1	15632	8/5/98	JWD

CALIBRATION DATE VERIFIED AS ACCEPTABLE



Maine Yankee Atomic Power Plant Site Characterization

03/31/98

Exposure Rate Measurements

Survey Package A1200 SURFACES & STRUCTURES
RCA Building - Elevation 21 ft.

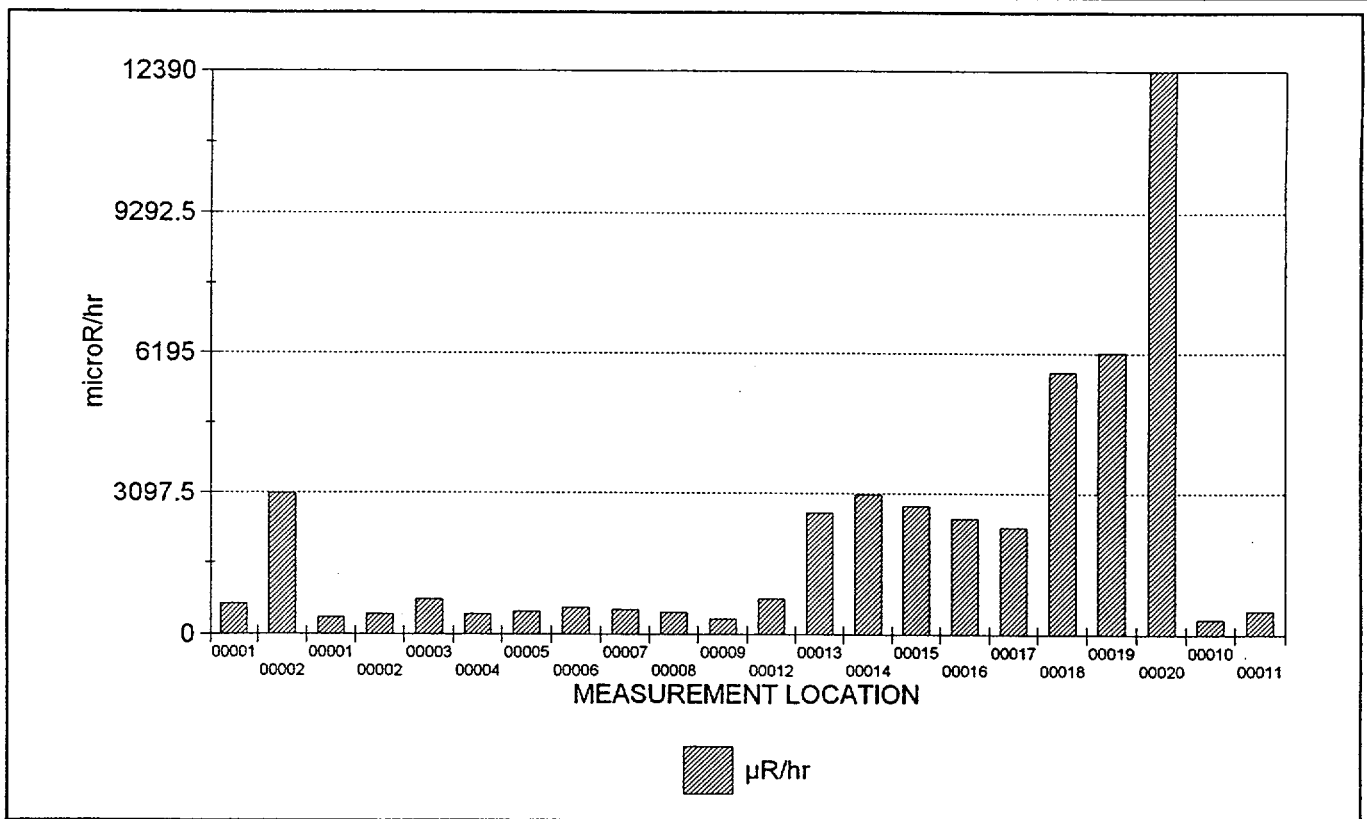
STATISTICAL SUMMARY

TESTS PERFORMED

	$\mu\text{R/hr}$
Mean	2,161.5
Maximum	12,388.7
Minimum	330.7
Standard Deviation	2,863.7

Samples reported satisfy samples prescribed	YES
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Samples Reported	22
Samples Prescribed	22



22 RESULTS ARE GRAPHED



Maine Yankee Atomic Power Plant Site Characterization

03/31/98

Exposure Rate Measurements

Survey Package : A1200 SURFACES & STRUCTURES
RCA Building - Elevation 21 ft.

RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	RESULT
593 (2)	01	FD1	B0036	C01	60.00	00001	660.0
597 (2)	01	FD1	B0036	C01	0.00	00002	<u>3093.7</u>
593 (2)	01	FL1	B0001	C01	60.00	00001	357.6
593 (2)	01	FL1	B0001	C01	60.00	00002	426.5
593 (2)	01	FL1	B0001	C01	60.00	00003	748.7
593 (2)	01	FL1	B0001	C01	60.00	00004	431.0
593 (2)	01	FL1	B0001	C01	60.00	00005	484.5
593 (2)	01	FL1	B0001	C01	60.00	00006	575.5
593 (2)	01	FL1	B0001	C01	60.00	00007	526.1
593 (2)	01	FL1	B0001	C01	60.00	00008	480.1
593 (2)	01	FL1	B0001	C01	60.00	00009	330.7
593 (2)	01	FL1	B0001	C01	60.00	00012	762.9
593 (2)	01	FL1	B0001	C01	60.00	00013	2671.4
597 (2)	01	FL1	B0001	C01	0.00	00014	<u>3070.9</u>
597 (2)	01	FL1	B0001	C01	0.00	00015	<u>2823.7</u>
597 (2)	01	FL1	B0001	C01	0.00	00016	<u>2538.1</u>
597 (2)	01	FL1	B0001	C01	0.00	00017	<u>2347.6</u>
597 (2)	01	FL1	B0001	C01	0.00	00018	<u>5779.0</u>
597 (2)	01	FL1	B0001	C01	0.00	00019	<u>6199.1</u>
597 (2)	01	FL1	B0001	C01	0.00	00020	<u>12388.7</u>
593 (2)	01	FL1	B0002	C01	60.00	00010	341.0
593 (2)	01	FL1	B0002	C01	60.00	00011	516.6

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 $\mu\text{R/hr}$.
22 results are listed.



Maine Yankee Atomic Power Plant Site Characterization

DOWNLOAD FILE & SURVEY INSTRUMENTATION CALIBRATION SUMMARY

03/31/98

Exposure Rate Measurements

Survey Package : A1200 SURFACES & STRUCTURES
RCA Building - Elevation 21 ft.

SURVEY DATE	FILE #	M2350		DETECTOR			TECHNICIAN
		INST S/N	CAL DUE	MODEL	S/N	CAL DUE	
2/12/98	593 (2)	098620	3/20/98	44-2	129304	4/19/98	DRK2986
CALIBRATION DATES VERIFIED AS ACCEPTABLE							
2/12/98	597 (2)	098620	3/20/98	44-38	091090	7/23/98	DRK2986
CALIBRATION DATES VERIFIED AS ACCEPTABLE							



Maine Yankee Atomic Power Plant Site Characterization

GAMMA SPECTRAL ANALYSIS RESULTS LISTING

NUMBER OF SAMPLES REPORTED =1

04/28/98

OUTPUT BATCH SN = 213

Survey Package A1200 SURFACES & STRUCTURES
RCA Building - Elevation 21 ft.

UNIT : 01 SURFACE : FL1 REASON : C01 ANALYSIS TYPE CODE : LAB06

SAMPLE TYPE OR SURFACE SAMPLED: Surface Code description not located
SAMPLE LOCATOR: 00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MYX20	FAL00048	1.0	1800	Co-57	< 70.6	70.6	0.0
				Co-60	2200.00	77.5	168.0
				Cs-134	< 109.0	109.0	0.0
				Cs-137	2670.00	110.0	251.0
				K-40	< 893.0	893.0	0.0
				Mn-54	< 140.0	140.0	0.0



Maine Yankee Atomic Power Plant Site Characterization

CHARACTERIZATION SUMMARY

04/02/98

SURVEY PACKAGE NUMBER :A1300

SURFACES & STRUCTURES

PACKAGE DESCRIPTION

Equipment Hatch Area - Elevation 21 ft.

SURVEY AREA DESCRIPTION

Equipment Hatch Area

GENERAL HISTORICAL INFORMATION (Operational history, etc.)

The equipment hatch is an integral portion of the containment building. An enclosure was constructed in 1993 to protect the area from the elements. Construction is bare and painted concrete floor, bare and painted concrete walls. The additional weather enclosure is steel and wood. The equipment hatch is presently hanging on the outside of the concrete shield side wall. Shield blocks from the front of the equipment hatch are stacked to one side.

SUMMARY OF CHARACTERIZATION ACTIVITIES

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

Collected 30 direct measurements for total beta activity at the survey measurement locations indicated in the results listing report. Due to elevated background radioactivity in the survey area, a scan of a two meter area encompassing each survey measurement location was not performed. Each direct measurement for total beta activity was accompanied by a corresponding background measurement at the same location. The background was used in the calculation of net dpm/100cm².

Collected smear samples to analyze for removable alpha and beta activity at the same 30 survey locations as the direct measurements for total beta activity.

Collected one meter exposure rate measurements at 10 survey locations indicated in the results listing report.

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 2000 dpm/100cm². There were 4 direct measurements for total beta activity above the individual measurements' MDA (Maximum MDA was 600 dpm/100cm²). The maximum measurement result was 721 dpm/100cm².
- o There were no measurements for removable beta activity above MDA (35 dpm/100cm²).
- o There were no measurements for removable alpha activity above MDA (8 dpm/100cm²).
- o The average and maximum exposure rate measurement results were 27 µR/hr and 123 µR/hr, respectively.

REFERENCES (Documents, Interviews)



Maine Yankee Atomic Power Plant Site Characterization

SUMMARY OF SURVEY UNIT(S)

03/29/98

OUTPUT BATCH SN = 269

PACKAGE A1300 SURFACES & STRUCTURES
Equipment Hatch Area - Elevation 21 ft.

UNIT(S)	SURFACE(S)
01 - Equipment Hatch Area -Elevation 21'	CL1 (Ceiling) EQ1 (Equipment) FL1 (Floor) WS1 (Walls)

REASON(S) CHARACTERIZATION SURVEY (C01)

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

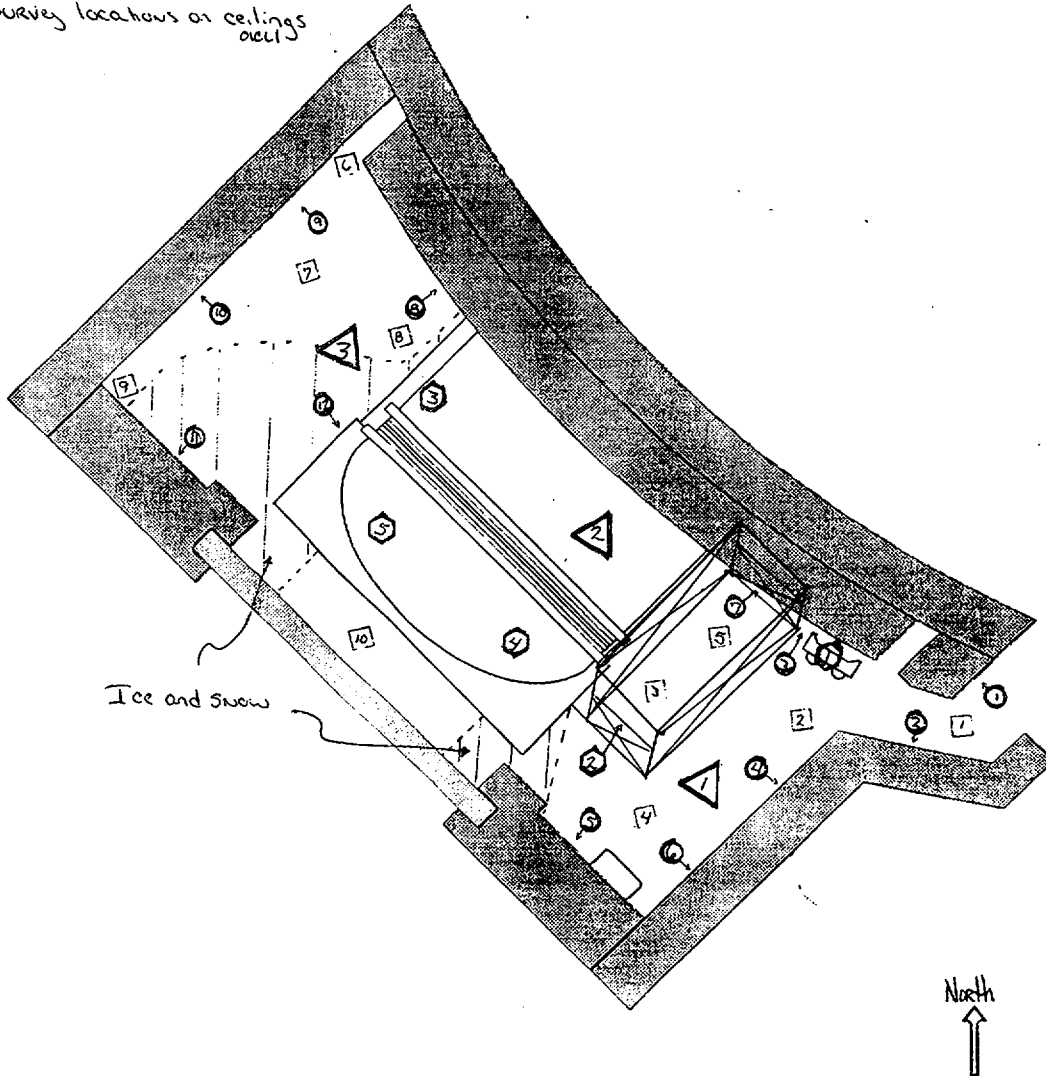
Maine Yankee Atomic Power Plant Site Characterization

SURVEY PACKAGE A1300

A1300 -

- ⊕ - survey locations on walls
- ⊠ - survey locations on floors
- ⊕ - survey locations on equipment
- △ - survey locations on ceilings

Equipment Hatch Area





Maine Yankee Atomic Power Plant Site Characterization

03/31/98

Direct Measurements For Total Beta Activity

Survey Package A1300 SURFACES & STRUCTURES
Equipment Hatch Area - Elevation 21 ft.

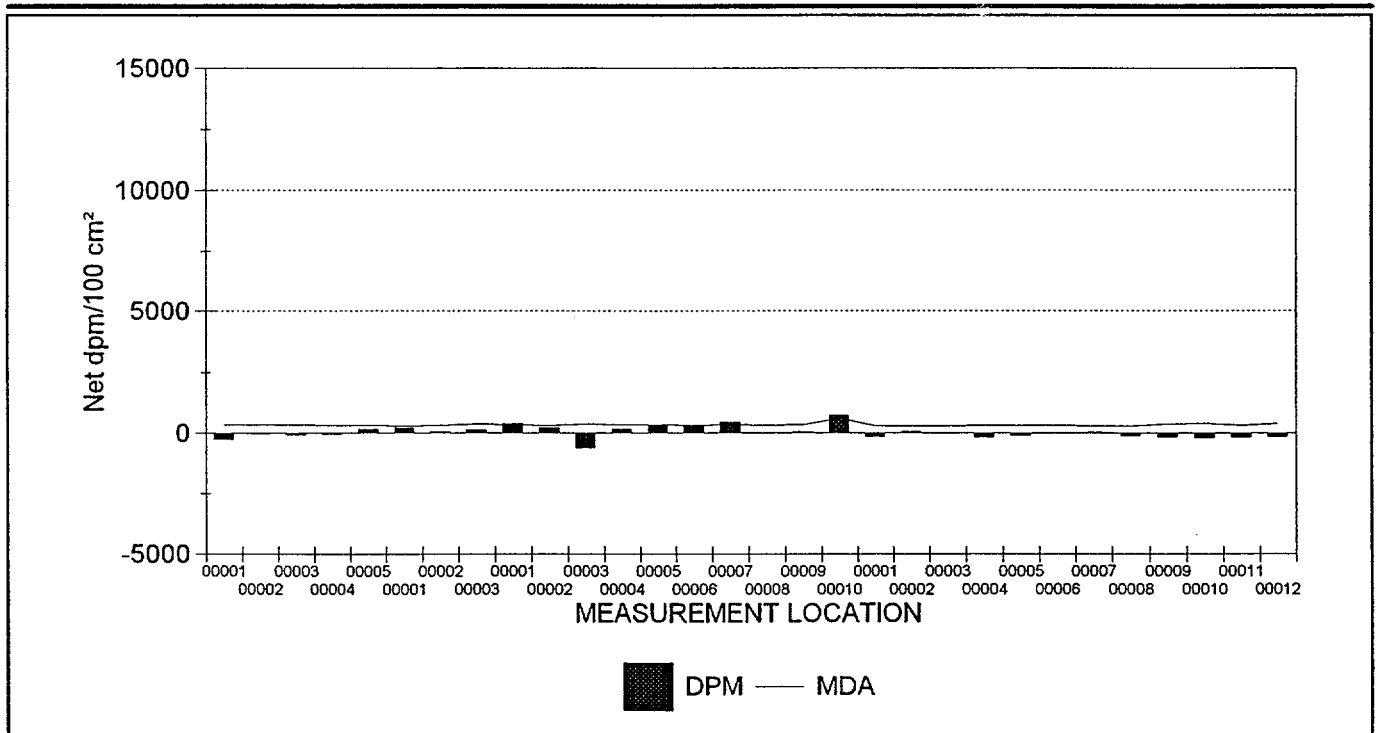
STATISTICAL SUMMARY

TESTS PERFORMED

	Net dpm/100 cm ²
Mean	27.5
Maximum	720.5
Minimum	-618.5
Standard Deviation	255.1
MDA	600.2

Samples reported satisfy samples prescribed	YES
MDA <2000 net dpm/100 cm ²	YES
Results above 2000 net dpm/100 cm ²	0
Number of results above MDA	4

Samples Reported	30
Samples Prescribed	30



30 RESULTS ARE GRAPHED



Maine Yankee Atomic Power Plant Site Characterization

03/31/98

Direct Measurements For Total Beta Activity

Survey Package : A1300 SURFACES & STRUCTURES
Equipment Hatch Area - Elevation 21 ft.

RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	MDA	RESULT
527 (2)	01	CL1	B0001	C01	60	00001	348.8	-254.4
527 (2)	01	CL1	B0001	C01	60	00002	339.2	-15.5
527 (2)	01	CL1	B0001	C01	60	00003	330.8	-88.7
527 (2)	01	EQ1	B0031	C01	60	00004	322.6	-54.0
527 (2)	01	EQ1	B0031	C01	60	00005	319.5	158.0
524 (2)	01	EQ1	B0036	C01	60	00001	275.4	207.0
524 (2)	01	EQ1	B0036	C01	60	00002	300.9	51.8
488 (2)	01	EQ1	B0036	C01	60	00003	354.0	141.9
524 (2)	01	FL1	B0001	C01	60	00001	330.4	<u>394.4</u>
524 (2)	01	FL1	B0001	C01	60	00002	321.1	202.2
524 (2)	01	FL1	B0001	C01	60	00003	362.1	-618.5
524 (2)	01	FL1	B0001	C01	60	00004	326.2	161.5
524 (2)	01	FL1	B0001	C01	60	00005	326.7	<u>346.4</u>
488 (2)	01	FL1	B0001	C01	60	00006	324.2	249.9
488 (2)	01	FL1	B0001	C01	60	00007	336.9	<u>444.1</u>
488 (2)	01	FL1	B0001	C01	60	00008	313.9	3.6
488 (2)	01	FL1	B0001	C01	60	00009	329.4	63.3
488 (2)	01	FL1	B0031	C01	60	00010	600.1	<u>720.5</u>
524 (2)	01	WS1	B0001	C01	60	00001	299.4	-163.8
524 (2)	01	WS1	B0001	C01	60	00002	286.3	50.6
524 (2)	01	WS1	B0001	C01	60	00003	293.7	-30.7
524 (2)	01	WS1	B0001	C01	60	00004	307.4	-193.4
524 (2)	01	WS1	B0001	C01	60	00005	313.3	-112.0
524 (2)	01	WS1	B0001	C01	60	00006	302.4	-4.8
524 (2)	01	WS1	B0001	C01	60	00007	277.0	32.2
488 (2)	01	WS1	B0001	C01	60	00008	284.2	-130.8
488 (2)	01	WS1	B0001	C01	60	00009	359.7	-190.6
488 (2)	01	WS1	B0001	C01	60	00010	391.4	-201.8
488 (2)	01	WS1	B0001	C01	60	00011	318.4	-194.3
488 (2)	01	WS1	B0036	C01	60	00012	382.6	-149.3

NOTES: Activity reported in net dpm/100 cm². Count times are reported in seconds.
Underlined values exceed the MDA.
Bold values exceed 2000 dpm/100 cm².
30 results are listed.



Maine Yankee Atomic Power Plant Site Characterization

DOWNLOAD FILE & SURVEY INSTRUMENTATION CALIBRATION SUMMARY

03/31/98

Direct Measurements For Total Beta Activity

Survey Package : A1300 SURFACES & STRUCTURES
 Equipment Hatch Area - Elevation 21 ft.

SURVEY DATE	FILE #	M2350		DETECTOR			PRE EFF	TECHNICIAN
		INST S/N	CAL DUE	MODEL	S/N	CAL DUE		
2/2/98	488 (2)	98639	4/16/98	43-106	133876	4/30/98	.21	JJP1813
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
1/30/98	524 (2)	098639	4/16/98	43-106	133876	4/30/98	.21	JJP1813
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
2/3/98	527 (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

03/29/98

Removable Contamination - Gross Beta Activity

Survey Package A1300 SURFACES & STRUCTURES
Equipment Hatch Area - Elevation 21 ft.

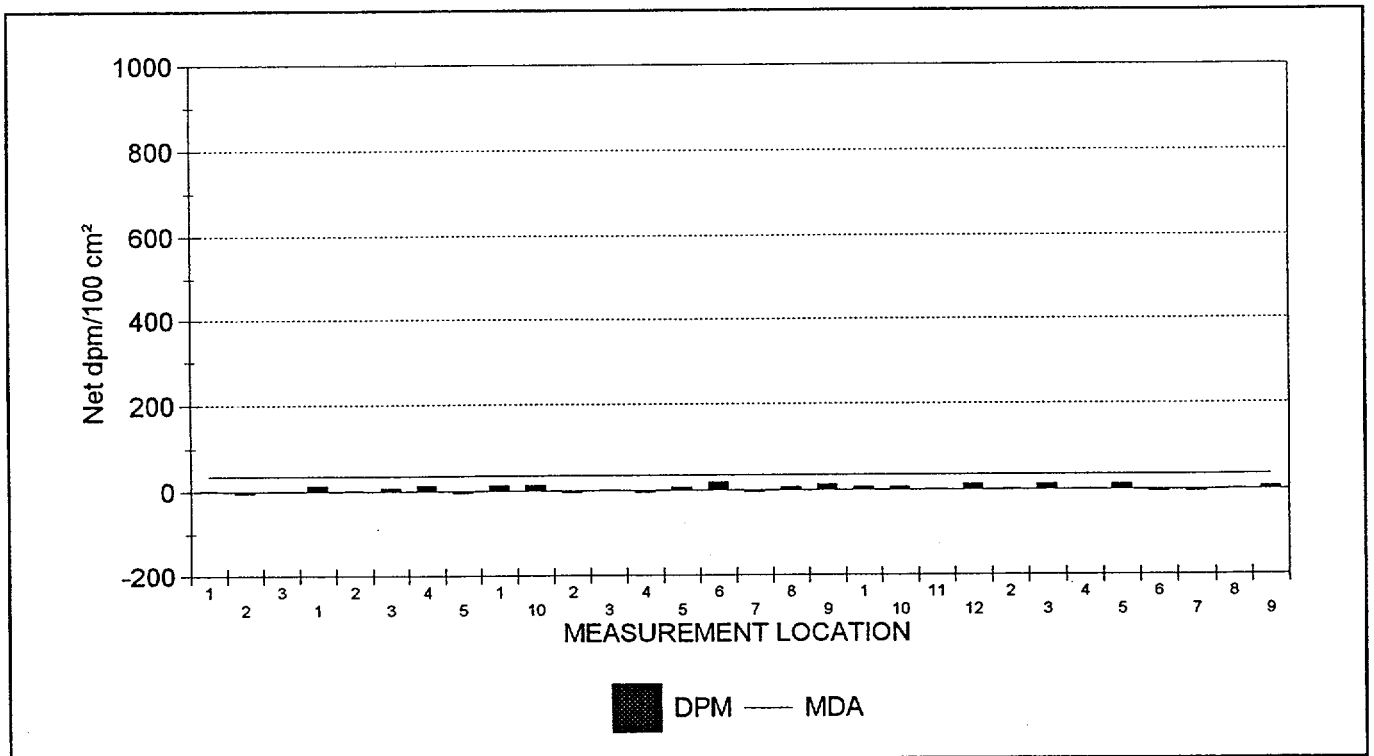
STATISTICAL SUMMARY

TESTS PERFORMED

	Net dpm/100 cm ²
Mean	4.9
Maximum	19.8
Minimum	-4.9
Standard Deviation	7.6
MDA	35.1

MDA <100 net dpm/100 cm ²	YES
Results above 100 net dpm/100 cm ²	0
Number of results above MDA	0

Samples Reported	30
Samples Prescribed	30



30 RESULTS ARE GRAPHED



Maine Yankee Atomic Power Plant Site Characterization

03/29/98

Removable Contamination - Gross Alpha Activity

Survey Package A1300 SURFACES & STRUCTURES
Equipment Hatch Area - Elevation 21 ft.

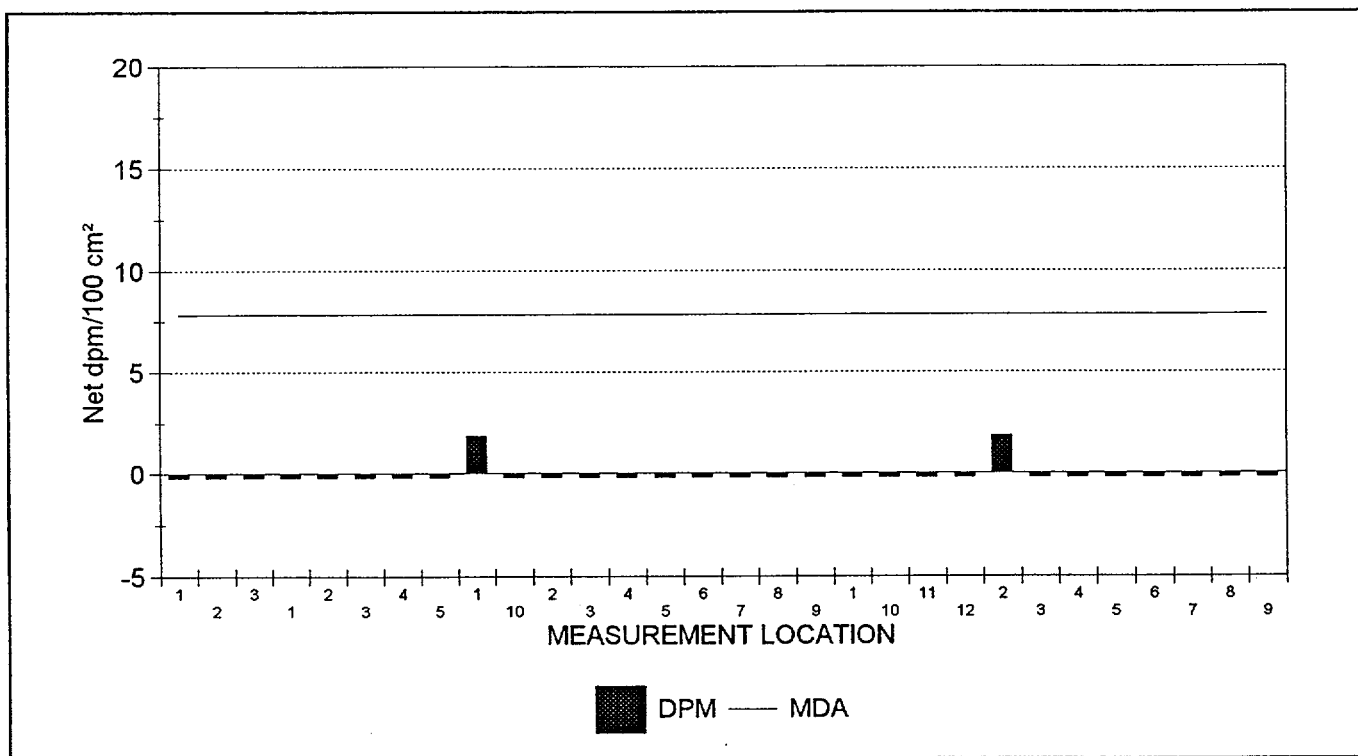
STATISTICAL SUMMARY

	Net dpm/100 cm ²
Mean	-0.1
Maximum	1.9
Minimum	-0.2
Standard Deviation	0.5
MDA	7.8

TESTS PERFORMED

MDA <10 net dpm/100 cm ²	YES
Results above 20 net dpm/100 cm ²	0
Number of results above MDA	0

Samples Reported	30
Samples Prescribed	30



30 RESULTS ARE GRAPHED



Maine Yankee Atomic Power Plant Site Characterization

03/29/98

Removable Contamination

Survey Package : A1300 SURFACES & STRUCTURES
Equipment Hatch Area - Elevation 21 ft.

RESULTS LISTING - SORTED BY SURFACE CODE

XLS FILE	UNIT	SURFACE	REASON	MSRMNT LOCATION	ALPHA	BETA
SME1E065.XLS	01	WS1	C01	9	-0.2	7.4
SME1E065.XLS	01	WS1	C01	8	-0.2	1.2
SME1E065.XLS	01	WS1	C01	7	-0.2	-5.0
SME1E065.XLS	01	WS1	C01	6	-0.2	-5.0
SME1E065.XLS	01	WS1	C01	5	-0.2	13.6
SME1E065.XLS	01	WS1	C01	4	-0.2	1.2
SME1E065.XLS	01	WS1	C01	3	-0.2	13.6
SME1E065.XLS	01	WS1	C01	2	1.9	1.2
SME1E065.XLS	01	WS1	C01	12	-0.2	13.6
SME1E065.XLS	01	WS1	C01	11	-0.2	1.2
SME1E065.XLS	01	WS1	C01	10	-0.2	7.4
SME1E065.XLS	01	WS1	C01	1	-0.2	7.4
SME1E065.XLS	01	FL1	C01	9	-0.2	13.6
SME1E065.XLS	01	FL1	C01	8	-0.2	7.4
SME1E065.XLS	01	FL1	C01	7	-0.2	-5.0
SME1E065.XLS	01	FL1	C01	6	-0.2	19.8
SME1E065.XLS	01	FL1	C01	5	-0.2	7.4
SME1E065.XLS	01	FL1	C01	4	-0.2	-5.0
SME1E065.XLS	01	FL1	C01	3	-0.2	1.2
SME1E065.XLS	01	FL1	C01	2	-0.2	-5.0
SME1E065.XLS	01	FL1	C01	10	-0.2	13.6
SME1E065.XLS	01	FL1	C01	1	1.9	13.6
SME1E065.XLS	01	EQ1	C01	5	-0.2	-5.0
SME1E065.XLS	01	EQ1	C01	4	-0.2	13.6
SME1E065.XLS	01	EQ1	C01	3	-0.2	7.4
SME1E065.XLS	01	EQ1	C01	2	-0.2	1.2
SME1E065.XLS	01	EQ1	C01	1	-0.2	13.6
SME1E065.XLS	01	CL1	C01	3	-0.2	1.2
SME1E065.XLS	01	CL1	C01	2	-0.2	-5.0
SME1E065.XLS	01	CL1	C01	1	-0.2	1.2

NOTES: Activity reported in net dpm/100 cm².

Underlined values exceed the associated MDA.

Bold values exceed 100.00 dpm/100 cm² (beta activity) and/or 20.00 dpm/100 cm² (alpha activity).

30 results are listed.



Maine Yankee Atomic Power Plant Site Characterization

DATAFILE & TENNELEC CALIBRATION SUMMARY

03/29/98

Removable Contamination

Survey Package : A1300 SURFACES & STRUCTURES
Equipment Hatch Area - Elevation 21 ft.

SURVEYDATE	XLS FILE	INST ID	S/N	CAL DUE	LAB TECHNICIAN
3/6/98	SME1E065.XLS	1	15632	8/5/98	JWD

CALIBRATION DATE VERIFIED AS ACCEPTABLE



Maine Yankee Atomic Power Plant Site Characterization

03/29/98

Exposure Rate Measurements

Survey Package A1300 SURFACES & STRUCTURES
Equipment Hatch Area - Elevation 21 ft.

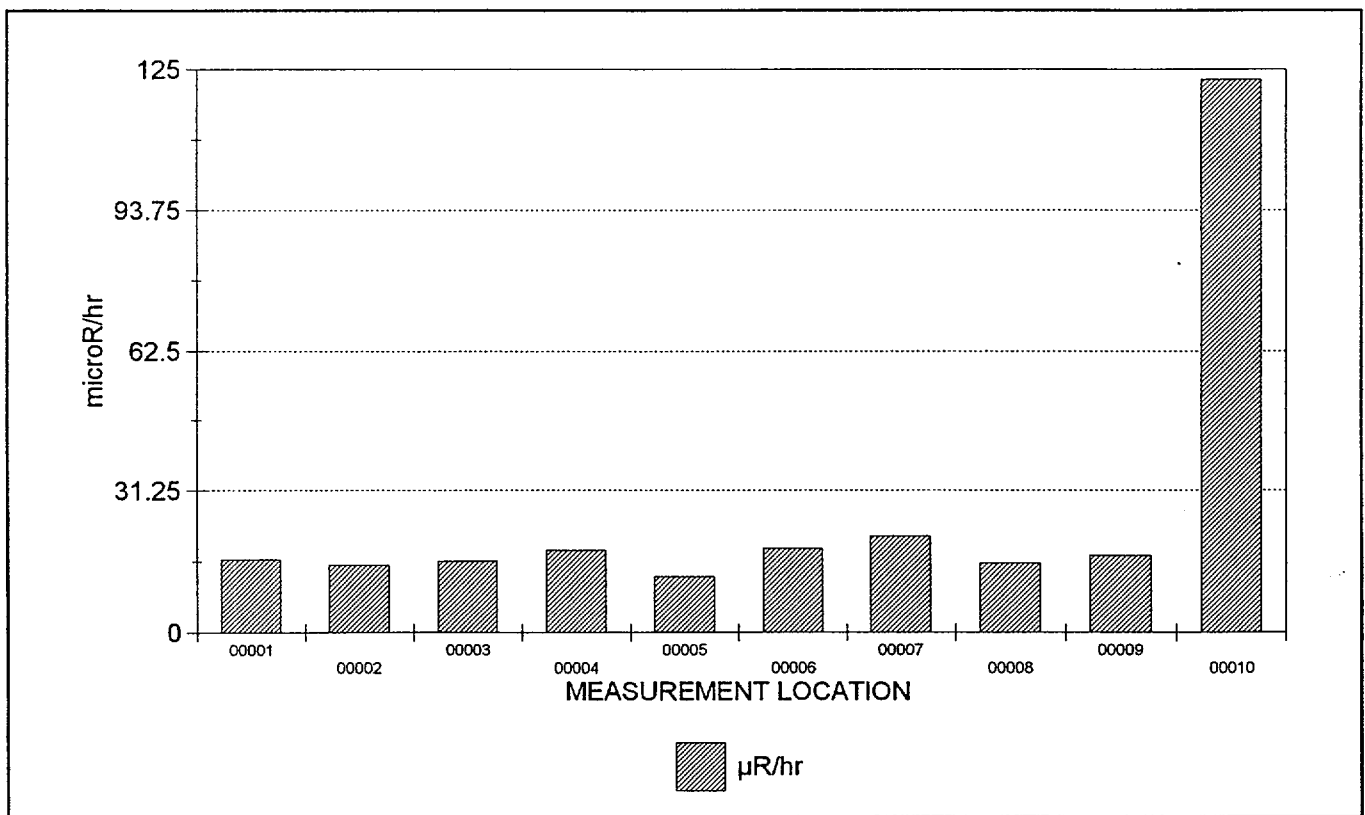
STATISTICAL SUMMARY

TESTS PERFORMED

	$\mu\text{R/hr}$
Mean	27.1
Maximum	122.7
Minimum	12.3
Standard Deviation	33.7

Samples reported satisfy samples prescribed	YES
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Samples Reported	10
Samples Prescribed	10



10 RESULTS ARE GRAPHED



Maine Yankee Atomic Power Plant Site Characterization

03/29/98

Exposure Rate Measurements

Survey Package : A1300 SURFACES & STRUCTURES
 Equipment Hatch Area - Elevation 21 ft.

RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	RESULT
533 (2)	01	FL1	B0001	C01	60.00	00001	16.1
533 (2)	01	FL1	B0001	C01	60.00	00002	14.8
533 (2)	01	FL1	B0001	C01	60.00	00003	15.6
533 (2)	01	FL1	B0001	C01	60.00	00004	18.1
533 (2)	01	FL1	B0001	C01	60.00	00005	12.3
533 (2)	01	FL1	B0001	C01	60.00	00006	18.5
533 (2)	01	FL1	B0001	C01	60.00	00007	21.2
533 (2)	01	FL1	B0001	C01	60.00	00008	15.2
533 (2)	01	FL1	B0001	C01	60.00	00009	16.9
533 (2)	01	FL1	B0001	C01	60.00	00010	122.7

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 $\mu\text{R/hr}$.
 10 results are listed.



Maine Yankee Atomic Power Plant Site Characterization

DOWNLOAD FILE & SURVEY INSTRUMENTATION CALIBRATION SUMMARY

03/29/98

Exposure Rate Measurements

Survey Package : A1300 SURFACES & STRUCTURES
 Equipment Hatch Area - Elevation 21 ft.

SURVEY DATE	FILE #	M2350		DETECTOR			TECHNICIAN
		INST S/N	CAL DUE	MODEL	S/N	CAL DUE	
2/3/98	533 (2)	098639	4/16/98	44-2	129770	5/12/98	JJP1813

CALIBRATION DATES VERIFIED AS ACCEPTABLE