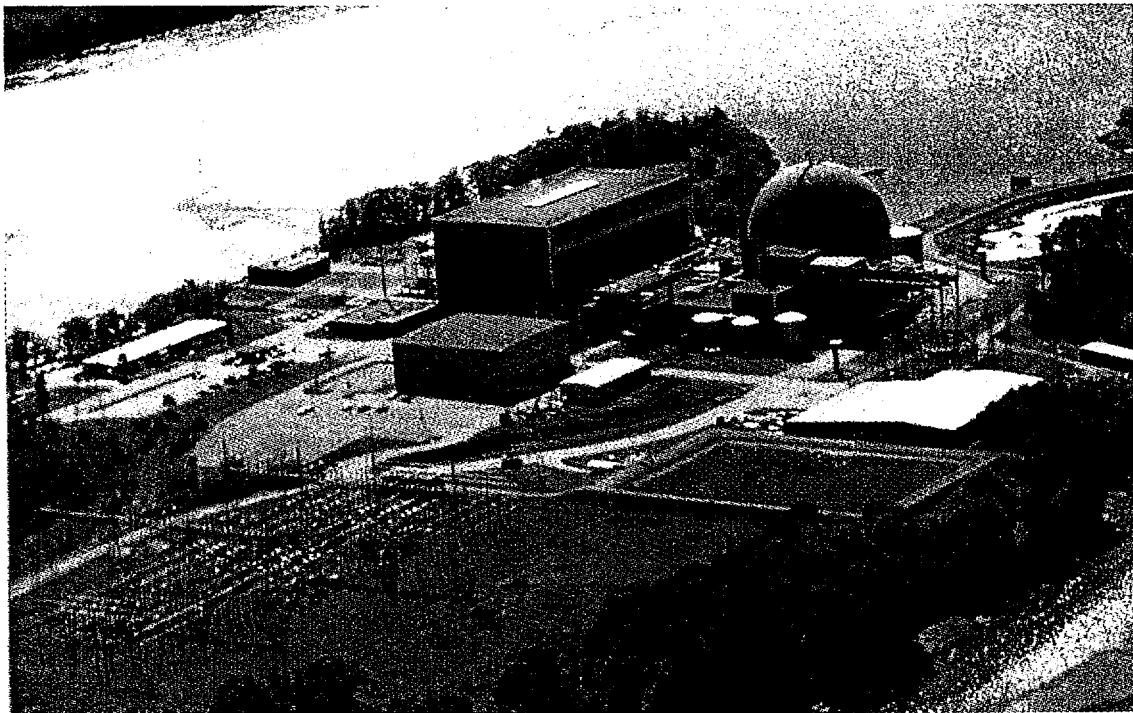


DURATEK

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

**VOLUME 2
RADIOLOGICAL CHARACTERIZATION RESULTS FOR
UNAFFECTED STRUCTURES AND SURFACES,
INCLUDING STRUCTURAL BACKGROUND SURVEY**



**APRIL 1998
REVISION 1**

Prepared By:

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GTS DURATEK
CHARACTERIZATION SURVEY REPORT

for the
MAINE YANKEE ATOMIC POWER PLANT


APRIL 1998

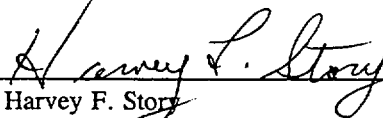
REVISION 1

VOLUME 2:
RADIOLOGICAL CHARACTERIZATION RESULTS FOR
UNAFFECTED STRUCTURES AND SURFACES, INCLUDING
STRUCTURAL BACKGROUND SURVEY

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**RADIOLOGICAL CHARACTERIZATION RESULTS FOR UNAFFECTED STRUCTURES
AND SURFACES, INCLUDING STRUCTURAL BACKGROUND SURVEY**

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RADIOLOGICAL CHARACTERIZATION RESULTS FOR UNAFFECTED STRUCTURES AND SURFACES, INCLUDING STRUCTURAL BACKGROUND SURVEY

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 (2) provides the characterization results for Group B, Unaffected Structures and Surfaces, and the results of the structural background survey.

**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

**RADIOLOGICAL CHARACTERIZATION RESULTS FOR UNAFFECTED STRUCTURES
AND SURFACES, INCLUDING STRUCTURAL BACKGROUND SURVEY**

2.0 SITE INFORMATION

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

RADIOLOGICAL CHARACTERIZATION RESULTS FOR UNAFFECTED STRUCTURES AND SURFACES, INCLUDING STRUCTURAL BACKGROUND SURVEY

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 unaffected structures and surfaces, and the structural background survey.

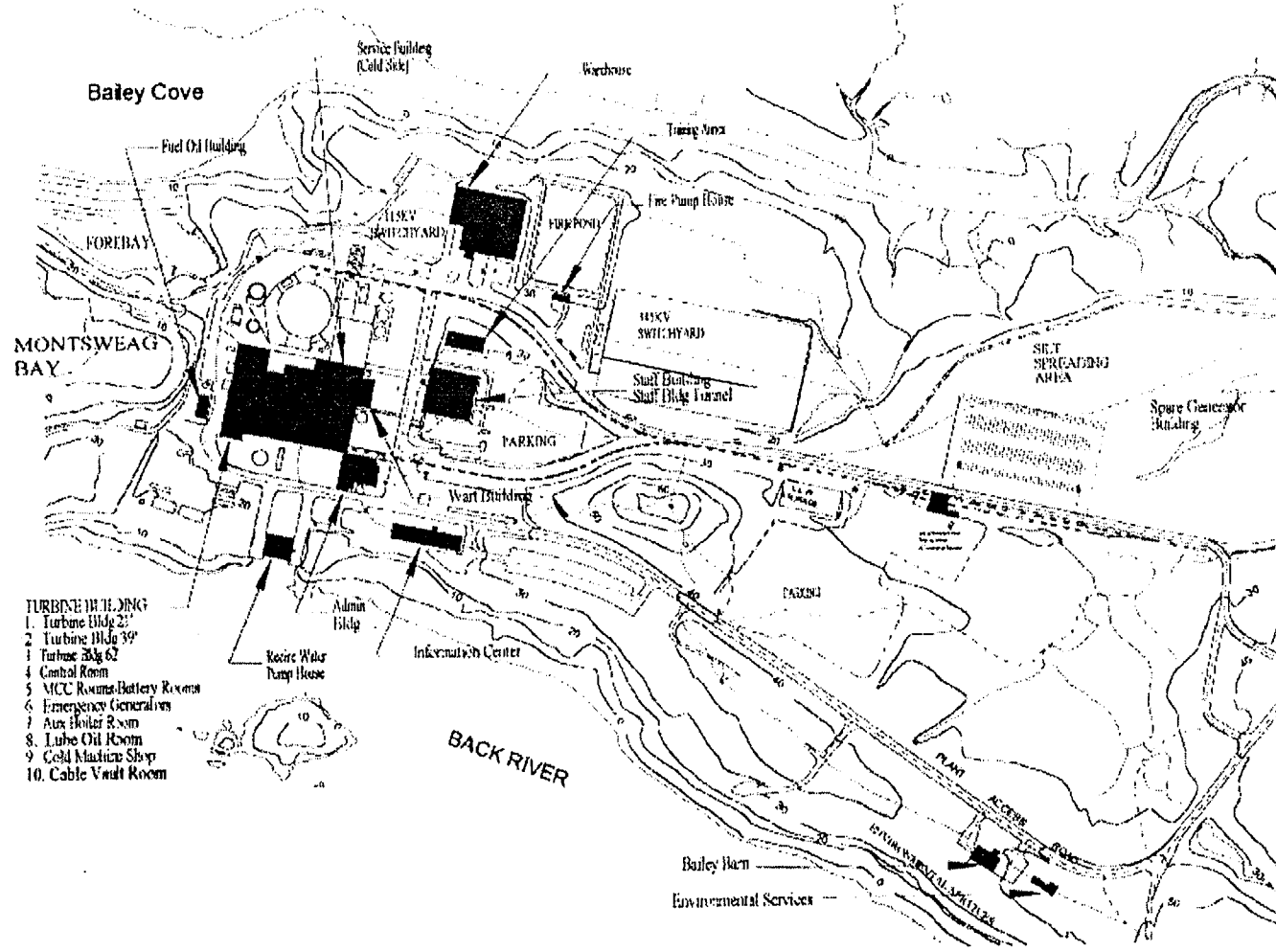
Project personnel used plant historical data, site walkdowns, and previous GTS Duratek experience to identify 24 areas presumed to be radiologically unaffected by plant operations. The site map in Figure 3-1 shows the area locations. The survey package prepared for each area described the survey area, its history, and the quantity and type of measurements and samples to be collected. For unaffected structures and surfaces, the surveys normally included beta scans of approximately 10% of the accessible surface, direct beta and removable alpha and beta measurements at a frequency of one measurement per 50 square meters of accessible surface, and exposure rate measurements one meter above floor measurement locations. In addition, survey technicians collected samples from specified locations for gamma spectral analysis.

The natural levels of radioactivity in plant construction materials affected direct measurements for total beta activity. To quantify this effect, GTS Duratek performed a background study at the Central Maine Power Headquarters Building in Augusta, Maine. The study included direct measurements for total beta activity on painted and unpainted concrete and concrete block, ceramic tile, and asphalt. Other materials encountered during the characterization survey such as glass, carpeting, and steel were not included in the background study since their natural radioactivity would not contribute significantly to direct measurements for total beta activity. Survey personnel used the same instruments for the structural background survey as were used for the characterization survey. Count times were adjusted to ensure minimum detectable activities of approximately 300 dpm/100 cm². Section 4.1 provides the beta activity associated with each construction material. Project personnel used these results to correct data gathered from similar surfaces during the characterization survey.

RADIOLOGICAL CHARACTERIZATION RESULTS FOR UNAFFECTED STRUCTURES AND SURFACES, INCLUDING STRUCTURAL BACKGROUND SURVEY

Figure 3-1

Unaffected Structures and Surfaces Survey Locations



**RADIOLOGICAL CHARACTERIZATION RESULTS FOR UNAFFECTED STRUCTURES
AND SURFACES, INCLUDING STRUCTURAL BACKGROUND SURVEY**

4.0 SURVEY FINDINGS AND RESULTS

4.1 Structural Background Survey

The average values and standard deviations of the direct measurements for total beta activity on construction materials at an off site location are presented in Table 4.1-1.

**Table 4.1-1
Background Values For Materials Of Construction**

Building Material	Survey Package	Surface Code(s)	Average Total Beta Activity dpm/100 cm²	Standard Deviation Total Beta Activity dpm/100 cm²
Painted Concrete	B9800	B0001, B0003, B0038	478	126
Bare Concrete	B9800	B0002, B0004, B0039	665	127
Ceramic Tile	B9800	B0007, B0008, B0009, B0043, B0044, B0045	1109	142
Asphalt	B9800	B0016	925	103

4.2 Results for Unaffected Structures and Surfaces

Table 4.2-2 lists the unaffected structures and surfaces survey packages. With two exceptions, the levels of radioactivity measured were below, or only slightly above MDA. The two exceptions were (1) the 21 ft. elevation of the Turbine Building in the area of the Primary and Secondary Component Cooling Pumps (PCC/SCC), Survey Package B0500, and (2) the basement of the Environmental Services Building, Survey Package B1900. The PCC/SCC system pump area is a posted radioactive materials area. The basement of the Environmental Services Building has bare granite walls and a dirt floor. An in-situ gamma spectroscopy measurement in the area showed no evidence of plant-derived radionuclides. Soil samples collected on the basement floor also showed no detectable activity for plant-derived radionuclides.

RADIOLOGICAL CHARACTERIZATION RESULTS FOR UNAFFECTED STRUCTURES AND SURFACES, INCLUDING STRUCTURAL BACKGROUND SURVEY

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 UNAFFECTED STRUCTURES AND SURFACES, INCLUDING STRUCTURAL BACKGROUND SURVEY

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 survey areas/packages where samples for gamma spectral analysis were prescribed, the characterization report contains a Gamma Spectral Analysis Results Listing. The results listing includes the sample survey location, Lab ID, Spectrum filename, sample mass, count time and the activity, MDA and associated error (counting uncertainty) for plant-derived radionuclides Mn-54, Co-57, Co-60, Cs-134, and Cs-137. For samples where the activity result is less than the MDA value, a "<" sign (less than) appears to the left of the value in the "Activity" column in units of pCi/g (picoCuries per gram) with a zero pCi/g value for the error. For samples with a positive (greater than MDA) activity pCi/g result, the report includes the associated counting error in units of \pm pCi/g. The activity of naturally-occurring K-40 with MDA and associated error is reported as a quality control check. Other naturally occurring radionuclides may be present, but are not reported. Table 4.2-1 describes the sample type and geometry as indicated by the three letter prefix of the sample Spectrum filename.

**RADIOLOGICAL CHARACTERIZATION RESULTS FOR UNAFFECTED STRUCTURES
AND SURFACES, INCLUDING STRUCTURAL BACKGROUND SURVEY**

**Table 4.2-1
Sample Type and Geometry for Gamma Spectral Analysis**

Spectrum Filename Prefix	Sample Type	Sample Geometry	Sample Volume
BIO	Plant Life, Biomass	Marinelli Beaker	1 Liter
ENV	Soil	Marinelli Beaker	1 Liter
FAL	Debris	Petri Dish	40 - 60 ml
H2O	Water	Marinelli Beaker	1 Liter
HDL	Debris, Soil	Marinelli Beaker	0.25 Liter
PET	Filter	Petri Dish	NA

**RADIOLOGICAL CHARACTERIZATION RESULTS FOR UNAFFECTED STRUCTURES
AND SURFACES, INCLUDING STRUCTURAL BACKGROUND SURVEY**

Table 4.2-2

PACKAGE NUMBER	GROUP "B" Unaffected Surface and Structures Survey Packages SURVEY PACKAGE DESCRIPTION
B0100	Turbine Deck - Elevation 61 ft.
B0200	Control Room - Elevation 21 ft.
B0300	Motor Control Center (MCC)/Battery Room - Elevation 62 ft.
B0400	Fire Pump House - Elevation 1
B0500	Condenser Bay - Elevation 21 ft.
B0600	Condenser Bay - Elevation 39 ft.
B0700	Service Building Cold Side - Elevation 21 ft.
B0800	Fuel Oil Building - Elevation 21 ft.
B0900	Emergency Diesel Generators - Elevation 21 ft.
B1000	Auxiliary Boiler Room - Elevation 21 ft.
B1100	Recirculating Water Pump House - All Elevations
B1200	Administration Center - Elevation 21 ft.
B1300	WART Building - All Elevations
B1400	Visitor and Information Center - Elevation 1
B1500	Warehouse 2 - Elevation 1
B1600	Training Annex Building - Elevation 1
B1700	Staff Building - All Elevations
B1800	Spare Generator Building - Elevation 1
B1900	Environmental Services Building - All Elevations
B2000	Bailey Barn - All Elevations
B2100	Lube Oil Storage Room - Turbine Building Elevation 21 ft.
B2200	Cold Machine Shop - Turbine Building Elevation 21 ft.
B2300	Cable Vault Room - Turbine Building Elevation 39 ft.
B2400	Staff Building Tunnel - Staff Building to Turbine Building Elevation 21 ft.
B9800	Structural Background Survey

**RADIOLOGICAL CHARACTERIZATION RESULTS FOR UNAFFECTED STRUCTURES
AND SURFACES, INCLUDING STRUCTURAL BACKGROUND SURVEY**

**APPENDIX A
CHARACTERIZATION REPORTS FOR UNAFFECTED STRUCTURES AND SURFACES**



Maine Yankee Atomic Power Plant Site Characterization

 CHARACTERIZATION SUMMARY

04/01/98

SURVEY PACKAGE NUMBER :B0100

SURFACES & STRUCTURES

PACKAGE DESCRIPTION

Turbine Deck - Elevation 61 ft.

SURVEY AREA DESCRIPTION

Turbine Deck - el. 61'

 GENERAL HISTORICAL INFORMATION (Operational history, etc.)

The Turbine Deck occupies the top (61') level of the Turbine Building. Construction is concrete floor, concrete block walls on the lower walls followed by metal sheeting up to the ceiling. Floors have been coated with a heavy, painted epoxy. Aside from installed turbine and generator equipment, the area has been used for RCP pump motor repair and other large component disassembly. Several components have asbestos insulation.

 SUMMARY OF CHARACTERIZATION ACTIVITIES

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

Performed a scan of approximately five square meters at 268 survey measurement locations indicated on the survey map(s). This was approximately 10% of the accessible surface area.

Collected direct measurements for total beta activity at 268 survey measurement locations at the highest location identified in the scan. If an elevated location was not observed, the measurement was collected at an arbitrary location, selected by the technician, within the five square meter scanned area.

Collected smear samples to analyze for removable alpha and beta activity at the same 268 survey locations as the direct measurements for total beta activity within the five square meter scanned area.

Collected one meter gamma exposure rate measurements at 61 survey location for direct measurements for total beta activity on floor surfaces.

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

 CHARACTERIZATION SURVEY RESULTS

- o There were 3 direct measurements for total beta activity above MDA (636 dpm/100cm²) and no results greater than 2000 dpm/100cm². The maximum measurement result was 654 dpm/100cm².
- o There were 5 measurements for removable beta activity above MDA (17.3 dpm/100cm²) and no results greater than 100 dpm/100cm². The maximum measurement result was 19 dpm/100cm².
- o There were no measurements for removable alpha activity above MDA (7.6 dpm/100cm²).
- o The average and maximum one meter exposure rate measurement results were 9 µR/hr and 15.2 µR/hr respectively.

 REFERENCES (Documents, Interviews)



Maine Yankee Atomic Power Plant Site Characterization

SUMMARY OF SURVEY UNIT(S)

03/24/98

OUTPUT BATCH SN = 218

PACKAGE B0100 SURFACES & STRUCTURES
 Turbine Deck - Elevation 61 ft.

UNIT(S)	SURFACE(S)
01 - Turbine Building -General	CL1 (Ceiling) CL2 (Ceiling: Overhead Structural Steel) EQ1 (Equipment: Feed Water Heater (general equipment) -located near the west wall) EQ2 (Equipment: Feed Water Heater Tanks (2) - located between turbine and west wall) EQ3 (Equipment: Moisture Separator -located west of the turbines) EQ4 (Equipment: Turbine (Main) and generator -located at the center of the Turbine Deck) EQ5 (Equipment: Vent Ducts (8) -located along the walls) EQ6 (Equipment: Moisture Separator -located east of the main turbine) EQ7 (Equipment: Electrical Panels (ABB Box) -located in northeast corner) EQ8 (Equipment: Aux Steam Supply Piping -located next to the south wall) EQ9 (Equipment: Trailer -located in the northwest corner) FL1 (Floor: General) WS1 (Walls: North Side of the Turbine Deck) WS2 (Walls: East Side of the Turbine Wall) WS3 (Walls: South Side of the Turbine Deck) WS4 (Walls: West Side of the Turbine Deck)
02 - Office Area	CL1 (Ceiling: Office area within the Turbine Deck -located in the northeast corner) FL1 (Floor: Office area within the Turbine Deck -located in the northeast corner) WS1 (Walls: Office area within the Turbine Deck -located in the northeast corner)
03 - Turbine Building Crane	EQ1 (Equipment: Turbine Building Crane)
04 - Roof Area	EQ1 (Equipment) RD1 (Roof Drain) RD2 (Roof Drain) RD3 (Roof Drain) RD4 (Roof Drain) RD5 (Roof Drain) RD6 (Roof Drain) RD7 (Roof Drain) RD8 (Roof Drain) RF1 (Roof)

REASON(S) CHARACTERIZATION SURVEY (C01)

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

03/24/98

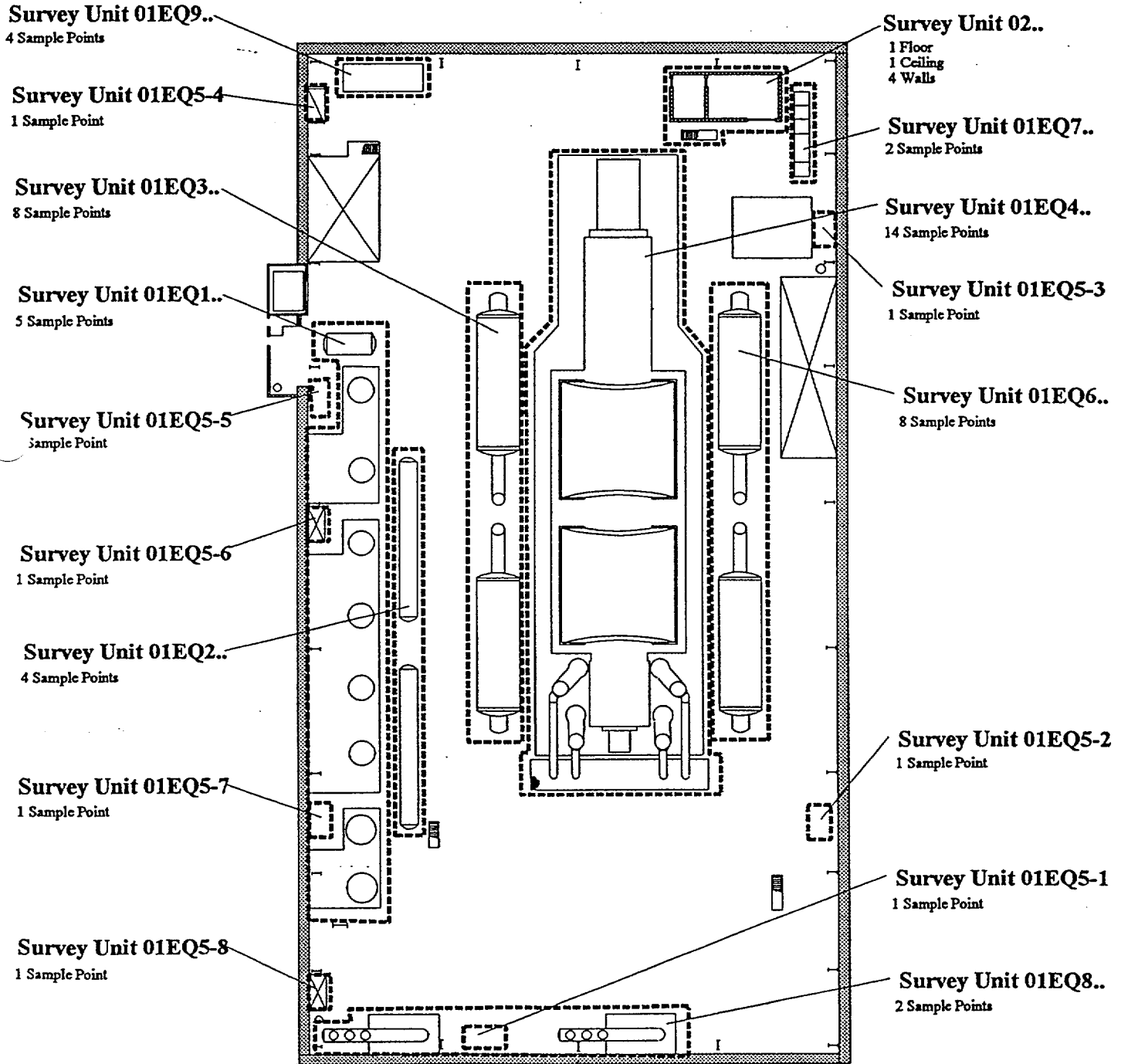
OUTPUT BATCH SN = 218

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
	B0036	METAL - PAINTED	0.0
	B9999	OTHER	0.0

Maine Yankee Atomic Power Plant Site Characterization

SURVEY PACKAGE B0100

Turbine Building 61 ft B0100
(Equipment Survey Locations)

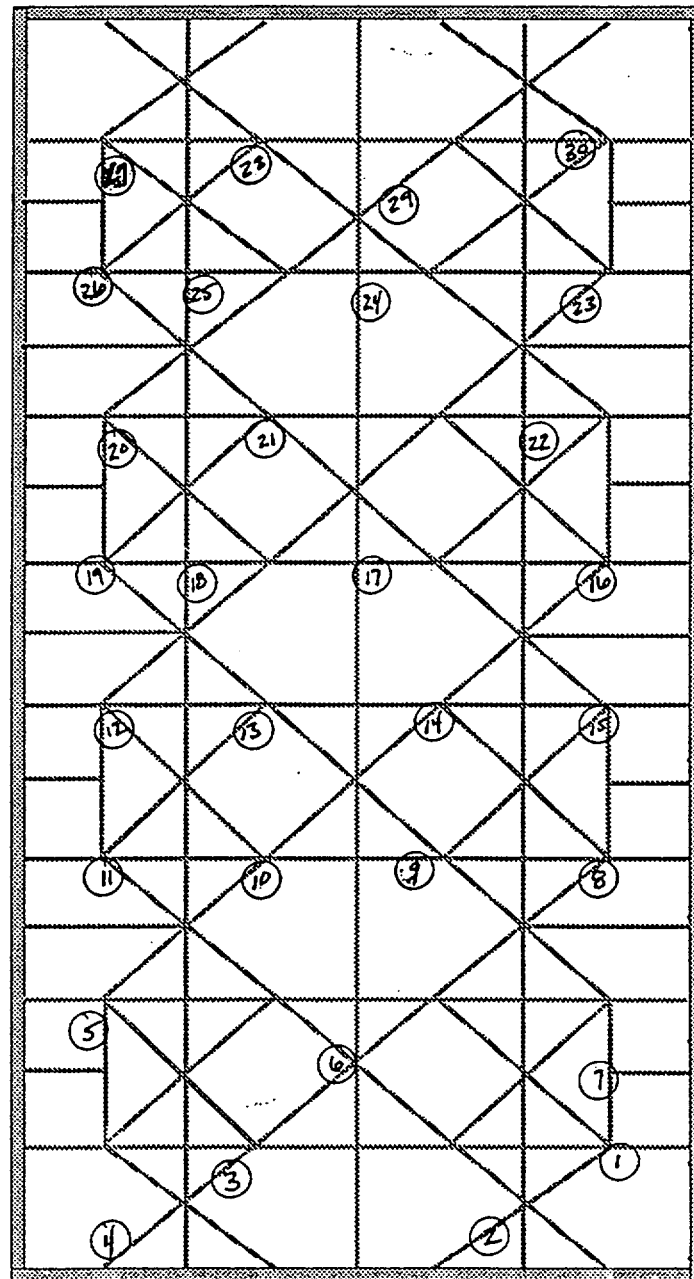




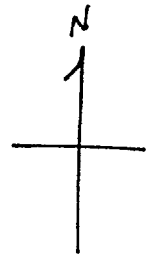
Maine Yankee Atomic Power Plant Site Characterization

SURVEY PACKAGE B0100

Turbine Building Overhead Structural Steel



B0100
OICL 2



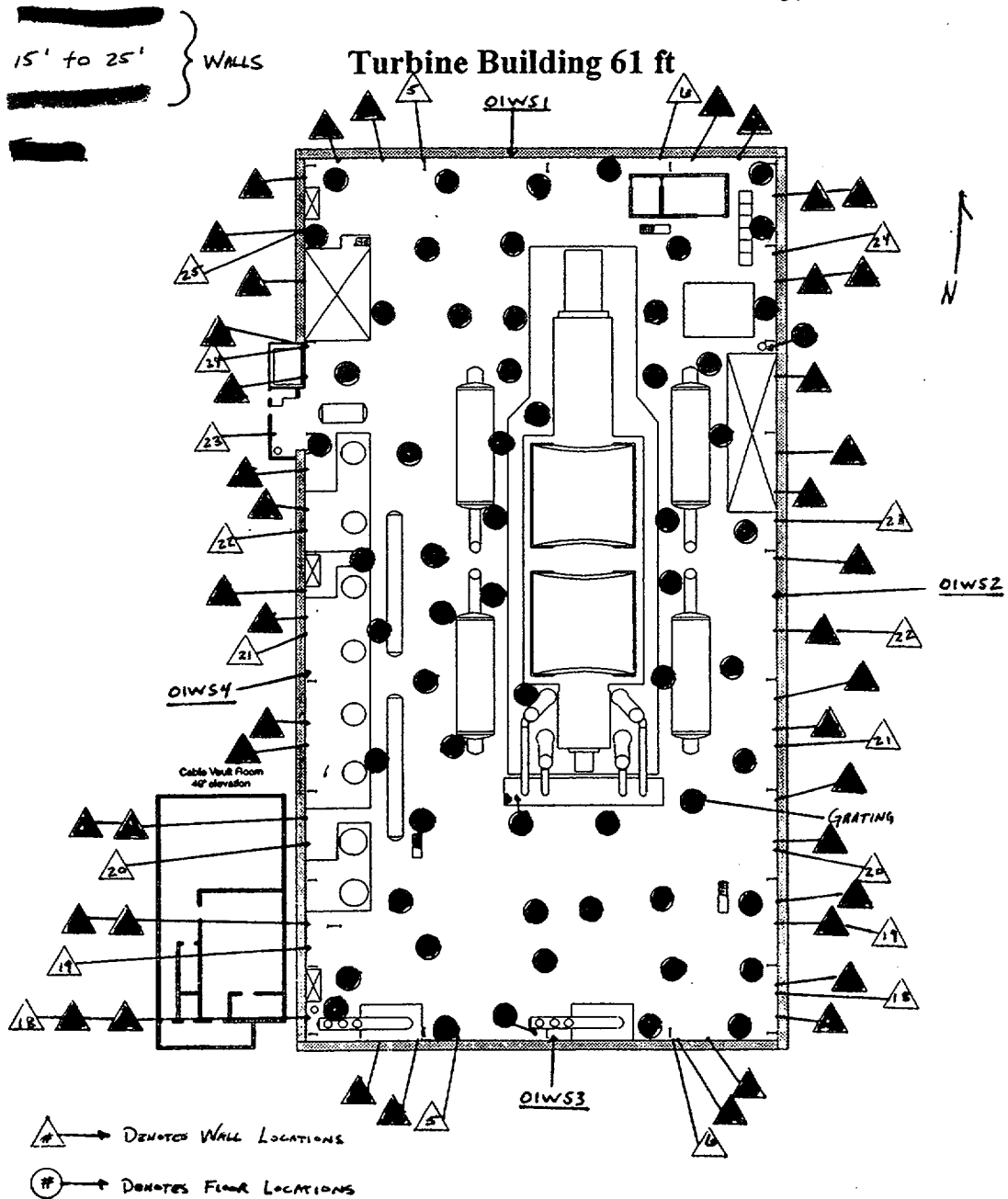


Maine Yankee Atomic Power Plant Site Characterization

SURVEY PACKAGE B0100

OIWS1 #s 1-2 25' to 35' #s 3-4 FLOOR TO 10' #s 5-6 15' TO 25'
 OIWS2 #s 1-9 25' to 35' #s 10-17 FLOOR TO 10' #s 18-24 15' TO 25'
 OIWS3 #s 1-2 25' to 35' #s 3-4 FLOOR TO 10' #s 5-6 15' TO 25'
 OIWS4 #s 1-9 25' to 35' #s 10-17 FLOOR TO 10' #s 18-25 15' TO 25'

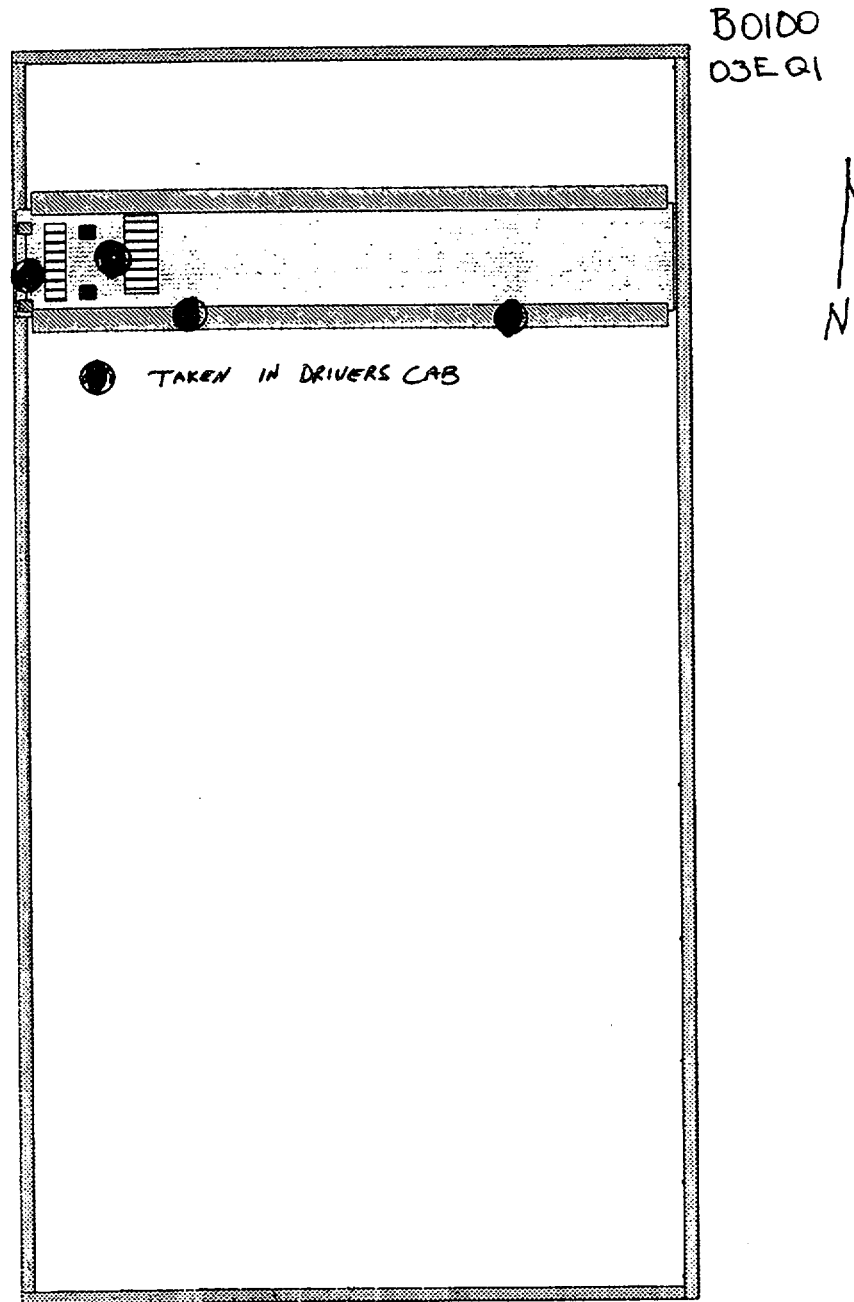
B0100
 OIFL1 - FLOOR
 OIWS1 - NORTH WALL
 OIWS2 - EAST WALL
 OIWS3 - SOUTH WALL
 OIWS4 - WEST WALL



Maine Yankee Atomic Power Plant Site Characterization

SURVEY PACKAGE B0100

Turbine Building Overhead Crane



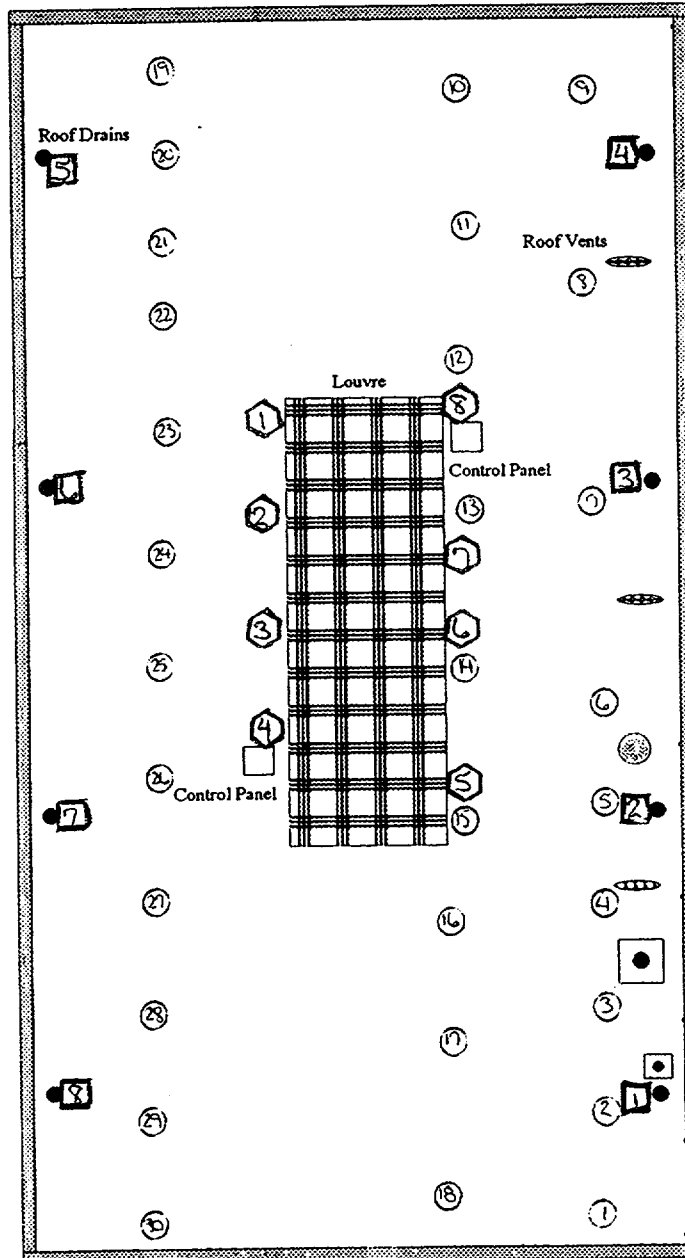
Maine Yankee Atomic Power Plant Site Characterization

SURVEY PACKAGE B0100

Turbine Building Roof

N ↑

B01-04
Rd 9-4-98
⊕ - survey locations on floors
⊞ - survey locations on drains
⊠ - survey locations on equipment





Maine Yankee Atomic Power Plant Site Characterization

03/24/98

Direct Measurements For Total Beta Activity

Survey Package B0100 SURFACES & STRUCTURES
Turbine Deck - Elevation 61 ft.

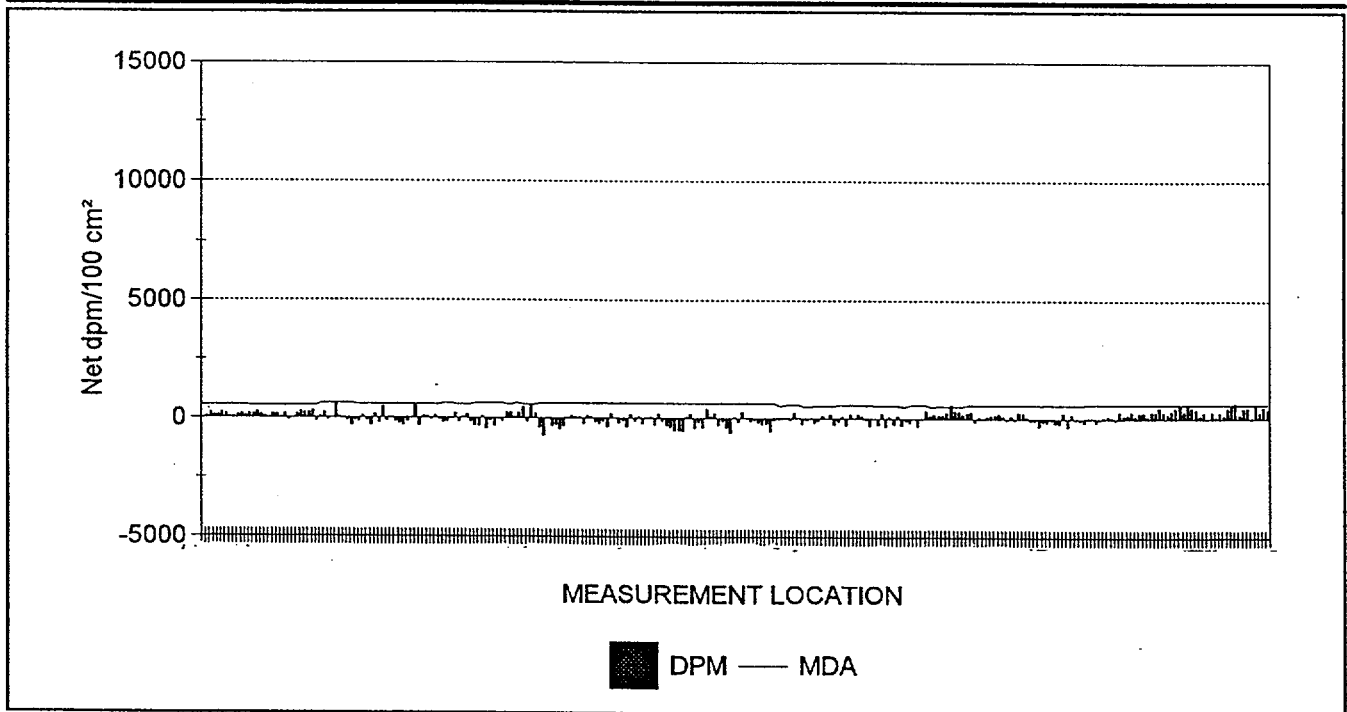
STATISTICAL SUMMARY

TESTS PERFORMED

	Net dpm/100 cm ²
Mean	26.7
Maximum	653.7
Minimum	-734.4
Standard Deviation	246.9
MDA	635.9

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	3

Samples Reported	268
Samples Prescribed	267



268 RESULTS ARE GRAPHED



Maine Yankee Atomic Power Plant Site Characterization

03/24/98

Direct Measurements For Total Beta Activity

Survey Package : B0100 SURFACES & STRUCTURES
Turbine Deck - Elevation 61 ft.

RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	MDA	RESULT
306 (2)	01	CL2	B9999	C01	10	00001	551.7	-7.8
306 (2)	01	CL2	B9999	C01	10	00002	551.7	86.0
306 (2)	01	CL2	B9999	C01	10	00003	551.7	226.6
306 (2)	01	CL2	B9999	C01	10	00004	551.7	132.9
306 (2)	01	CL2	B9999	C01	10	00005	551.7	132.9
306 (2)	01	CL2	B9999	C01	10	00006	551.7	226.6
306 (2)	01	CL2	B9999	C01	10	00007	551.7	179.7
306 (2)	01	CL2	B9999	C01	10	00008	551.7	62.5
306 (2)	01	CL2	B9999	C01	10	00009	551.7	39.1
306 (2)	01	CL2	B9999	C01	10	00010	551.7	132.9
306 (2)	01	CL2	B9999	C01	10	00011	551.7	179.7
306 (2)	01	CL2	B9999	C01	10	00012	551.7	109.4
322 (2)	01	CL2	B9999	C01	10	00013	527.2	193.8
322 (2)	01	CL2	B9999	C01	10	00014	527.2	193.8
322 (2)	01	CL2	B9999	C01	10	00015	527.2	267.2
322 (2)	01	CL2	B9999	C01	10	00016	527.2	144.8
322 (2)	01	CL2	B9999	C01	10	00017	527.2	71.4
322 (2)	01	CL2	B9999	C01	10	00018	527.2	-2.0
322 (2)	01	CL2	B9999	C01	10	00019	527.2	193.8
322 (2)	01	CL2	B9999	C01	10	00020	527.2	144.8
322 (2)	01	CL2	B9999	C01	10	00021	527.2	22.4
322 (2)	01	CL2	B9999	C01	10	00022	527.2	193.8
322 (2)	01	CL2	B9999	C01	10	00023	527.2	-75.5
322 (2)	01	CL2	B9999	C01	10	00024	527.2	-2.0
322 (2)	01	CL2	B9999	C01	10	00025	527.2	169.3
322 (2)	01	CL2	B9999	C01	10	00026	527.2	291.7
322 (2)	01	CL2	B9999	C01	10	00027	527.2	242.7
322 (2)	01	CL2	B9999	C01	10	00028	527.2	242.7
322 (2)	01	CL2	B9999	C01	10	00029	527.2	316.1
322 (2)	01	CL2	B9999	C01	10	00030	527.2	-124.4
289 (2)	01	EQ1	B9999	C01	10	00001	615.0	55.4
289 (2)	01	EQ1	B9999	C01	10	00002	615.0	245.2
289 (2)	01	EQ1	B9999	C01	10	00003	615.0	-87.0
289 (2)	01	EQ1	B9999	C01	10	00004	615.0	31.6
289 (2)	01	EQ1	B9999	C01	10	00005	615.0	601.0
289 (2)	01	EQ2	B9999	C01	10	00001	615.0	55.4
289 (2)	01	EQ2	B9999	C01	10	00002	615.0	7.9
289 (2)	01	EQ2	B9999	C01	10	00003	615.0	-110.7
289 (2)	01	EQ2	B9999	C01	10	00004	615.0	-324.2
288 (2)	01	EQ3	B9999	C01	10	00001	577.1	-96.1

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.



Maine Yankee Atomic Power Plant Site Characterization

03/24/98

Direct Measurements For Total Beta Activity

Survey Package : B0100 SURFACES & STRUCTURES
Turbine Deck - Elevation 61 ft.

RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	MDA	RESULT
288 (2)	01	EQ3	B9999	C01	10	00002	577.1	-168.1
288 (2)	01	EQ3	B9999	C01	10	00003	577.1	96.1
288 (2)	01	EQ3	B9999	C01	10	00004	577.1	-96.1
288 (2)	01	EQ3	B9999	C01	10	00005	577.1	-312.2
288 (2)	01	EQ3	B9999	C01	10	00006	577.1	144.1
288 (2)	01	EQ3	B9999	C01	10	00007	577.1	-216.1
288 (2)	01	EQ3	B9999	C01	10	00008	577.1	456.3
337 (2)	01	EQ4	B9999	C01	10	00001	569.1	-118.9
337 (2)	01	EQ4	B9999	C01	10	00002	569.1	31.3
337 (2)	01	EQ4	B9999	C01	10	00003	569.1	-143.9
337 (2)	01	EQ4	B9999	C01	10	00004	569.1	-244.1
337 (2)	01	EQ4	B9999	C01	10	00005	569.1	-319.2
337 (2)	01	EQ4	B9999	C01	10	00006	569.1	-143.9
337 (2)	01	EQ4	B9999	C01	10	00007	569.1	-18.8
337 (2)	01	EQ4	B9999	C01	10	00008	569.1	481.9
337 (2)	01	EQ4	B9999	C01	10	00009	569.1	-319.2
337 (2)	01	EQ4	B9999	C01	10	00010	569.1	81.4
337 (2)	01	EQ4	B9999	C01	10	00011	569.1	56.3
337 (2)	01	EQ4	B9999	C01	10	00012	569.1	-43.8
337 (2)	01	EQ4	B9999	C01	10	00013	569.1	106.4
337 (2)	01	EQ4	B9999	C01	10	00014	569.1	-43.8
289 (2)	01	EQ5	B9999	C01	10	00001	615.0	-181.9
289 (2)	01	EQ5	B9999	C01	10	00002	615.0	-158.2
289 (2)	01	EQ5	B9999	C01	10	00003	615.0	-15.8
337 (2)	01	EQ5	B9999	C01	10	00004	569.1	206.5
337 (2)	01	EQ5	B9999	C01	10	00005	569.1	-169.0
337 (2)	01	EQ5	B9999	C01	10	00006	569.1	56.3
337 (2)	01	EQ5	B9999	C01	10	00007	569.1	156.5
337 (2)	01	EQ5	B9999	C01	10	00008	569.1	-169.0
289 (2)	01	EQ6	B9999	C01	10	00001	615.0	-300.5
289 (2)	01	EQ6	B9999	C01	10	00002	615.0	-348.0
289 (2)	01	EQ6	B9999	C01	10	00003	615.0	79.1
289 (2)	01	EQ6	B9999	C01	10	00004	615.0	-442.9
289 (2)	01	EQ6	B9999	C01	10	00005	615.0	-110.7
289 (2)	01	EQ6	B9999	C01	10	00006	615.0	-348.0
289 (2)	01	EQ6	B9999	C01	10	00007	615.0	-15.8
289 (2)	01	EQ6	B9999	C01	10	00008	615.0	-134.4
337 (2)	01	EQ7	B9999	C01	10	00001	569.1	231.6
337 (2)	01	EQ7	B9999	C01	10	00002	569.1	256.6
289 (2)	01	EQ8	B9999	C01	10	00001	615.0	55.4

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

03/24/98

Direct Measurements For Total Beta Activity

Survey Package : B0100 SURFACES & STRUCTURES
Turbine Deck - Elevation 61 ft.

RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	MDA	RESULT
289 (2)	01	EQ8	B9999	C01	10	00002	615.0	221.4
288 (2)	01	EQ9	B0036	C01	10	00001	577.1	456.3
288 (2)	01	EQ9	B0036	C01	10	00002	577.1	-144.1
288 (2)	01	EQ9	B9999	C01	10	00003	577.1	552.3
288 (2)	01	EQ9	B9999	C01	10	00004	577.1	216.1
258 (2)	01	FL1	B0001	C01	10	00001	635.9	-397.9
258 (2)	01	FL1	B0001	C01	10	00002	635.9	-734.4
258 (2)	01	FL1	B0001	C01	10	00003	635.9	-13.4
258 (2)	01	FL1	B0001	C01	10	00004	635.9	-349.8
258 (2)	01	FL1	B0001	C01	10	00005	635.9	-277.7
258 (2)	01	FL1	B0001	C01	10	00006	635.9	-470.0
258 (2)	01	FL1	B0001	C01	10	00007	635.9	-349.8
258 (2)	01	FL1	B0001	C01	10	00008	635.9	34.7
258 (2)	01	FL1	B0001	C01	10	00009	635.9	106.8
258 (2)	01	FL1	B0001	C01	10	00010	635.9	58.7
268 (2)	01	FL1	B0001	C01	10	00011	618.4	49.3
268 (2)	01	FL1	B0001	C01	10	00012	618.4	-234.0
268 (2)	01	FL1	B0001	C01	10	00013	618.4	96.5
268 (2)	01	FL1	B0001	C01	10	00014	618.4	49.3
268 (2)	01	FL1	B0001	C01	10	00015	618.4	-163.2
268 (2)	01	FL1	B0001	C01	10	00016	618.4	-234.0
268 (2)	01	FL1	B0001	C01	10	00017	618.4	-139.6
268 (2)	01	FL1	B0001	C01	10	00018	618.4	-375.7
268 (2)	01	FL1	B0001	C01	10	00019	618.4	191.0
268 (2)	01	FL1	B0001	C01	10	00020	618.4	25.7
289 (2)	01	FL1	B0001	C01	10	00021	615.0	-209.1
289 (2)	01	FL1	B0001	C01	10	00022	615.0	-114.2
289 (2)	01	FL1	B0001	C01	10	00023	615.0	-375.2
289 (2)	01	FL1	B0001	C01	10	00024	615.0	146.8
289 (2)	01	FL1	B0001	C01	10	00025	615.0	-137.9
289 (2)	01	FL1	B0001	C01	10	00026	615.0	51.9
289 (2)	01	FL1	B0001	C01	10	00027	615.0	-232.8
289 (2)	01	FL1	B0001	C01	10	00028	615.0	28.1
289 (2)	01	FL1	B0001	C01	10	00029	615.0	51.9
289 (2)	01	FL1	B0001	C01	10	00030	615.0	-280.3
274 (2)	01	FL1	B0001	C01	10	00031	619.2	187.6
274 (2)	01	FL1	B0001	C01	10	00032	619.2	-132.2
274 (2)	01	FL1	B0001	C01	10	00033	619.2	-304.4
274 (2)	01	FL1	B0001	C01	10	00034	619.2	-378.2
274 (2)	01	FL1	B0001	C01	10	00035	619.2	-525.8

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

03/24/98

Direct Measurements For Total Beta Activity

Survey Package : B0100 SURFACES & STRUCTURES

Turbine Deck - Elevation 61 ft.

RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	MDA	RESULT
274 (2)	01	FL1	B0001	C01	10	00036	619.2	-525.8
274 (2)	01	FL1	B0001	C01	10	00037	619.2	-550.4
274 (2)	01	FL1	B0001	C01	10	00038	619.2	64.6
274 (2)	01	FL1	B0001	C01	10	00039	619.2	187.6
274 (2)	01	FL1	B0001	C01	10	00040	619.2	-427.4
274 (2)	01	FL1	B0001	C01	10	00041	619.2	-181.4
274 (2)	01	FL1	B0001	C01	10	00043	619.2	-378.2
274 (2)	01	FL1	B0001	C01	10	00044	619.2	384.5
274 (2)	01	FL1	B0001	C01	10	00045	619.2	89.2
274 (2)	01	FL1	B0001	C01	10	00046	619.2	212.2
274 (2)	01	FL1	B0001	C01	10	00047	619.2	-279.8
274 (2)	01	FL1	B0001	C01	10	00048	619.2	-132.2
274 (2)	01	FL1	B0001	C01	10	00049	619.2	-402.8
274 (2)	01	FL1	B0001	C01	10	00050	619.2	-599.6
274 (2)	01	FL1	B0001	C01	10	00051	619.2	40.0
274 (2)	01	FL1	B0001	C01	10	00052	619.2	-156.8
274 (2)	01	FL1	B0001	C01	10	00053	619.2	261.4
274 (2)	01	FL1	B0001	C01	10	00054	619.2	-9.2
274 (2)	01	FL1	B0001	C01	10	00055	619.2	-132.2
260 (2)	01	FL1	B0001	C01	10	00056	634.8	-66.8
260 (2)	01	FL1	B0001	C01	10	00057	634.8	-189.7
260 (2)	01	FL1	B0001	C01	10	00058	634.8	-263.5
260 (2)	01	FL1	B0001	C01	10	00059	634.8	-238.9
260 (2)	01	FL1	B0001	C01	10	00060	634.8	-534.0
274 (2)	01	FL1	B0036	C01	10	00042	619.2	-72.4
322 (2)	01	WS1	B9999	C01	10	00001	527.2	-26.5
322 (2)	01	WS1	B9999	C01	10	00002	527.2	-2.0
335 (2)	01	WS1	B9999	C01	10	00003	564.7	9.8
335 (2)	01	WS1	B9999	C01	10	00004	564.7	-61.0
417 (2)	01	WS1	B9999	C01	10	00005	570.1	240.3
417 (2)	01	WS1	B9999	C01	10	00006	570.1	19.1
307 (2)	01	WS2	B0036	C01	10	00001	506.0	-236.7
307 (2)	01	WS2	B0036	C01	10	00002	506.0	-65.8
307 (2)	01	WS2	B0036	C01	10	00003	506.0	-17.0
322 (2)	01	WS2	B9999	C01	10	00004	527.2	-173.4
322 (2)	01	WS2	B9999	C01	10	00005	527.2	-99.9
322 (2)	01	WS2	B9999	C01	10	00006	527.2	95.9
322 (2)	01	WS2	B9999	C01	10	00007	527.2	-2.0
322 (2)	01	WS2	B9999	C01	10	00008	527.2	144.8
322 (2)	01	WS2	B9999	C01	10	00009	527.2	-271.3

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

03/24/98

Direct Measurements For Total Beta Activity

Survey Package : B0100 SURFACES & STRUCTURES
Turbine Deck - Elevation 61 ft.

RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	MDA	RESULT
335 (2)	01	WS2	B9999	C01	10	00010	564.7	-131.9
335 (2)	01	WS2	B9999	C01	10	00011	564.7	80.7
475 (2)	01	WS2	B9999	C01	10	00012	554.7	-274.0
335 (2)	01	WS2	B9999	C01	10	00013	564.7	175.2
335 (2)	01	WS2	B9999	C01	10	00014	564.7	33.5
335 (2)	01	WS2	B9999	C01	10	00015	564.7	175.2
335 (2)	01	WS2	B9999	C01	10	00016	564.7	104.3
401 (2)	01	WS2	B9999	C01	10	00017	545.0	-59.9
335 (2)	01	WS2	B9999	C01	10	00017	564.7	-320.8
401 (2)	01	WS2	B9999	C01	10	00018	545.0	-35.1
401 (2)	01	WS2	B9999	C01	10	00019	545.0	-258.2
401 (2)	01	WS2	B9999	C01	10	00020	545.0	212.8
401 (2)	01	WS2	B9999	C01	10	00021	545.0	-332.6
401 (2)	01	WS2	B9999	C01	10	00022	545.0	88.8
401 (2)	01	WS2	B9999	C01	10	00023	545.0	-233.4
401 (2)	01	WS2	B9999	C01	10	00024	545.0	113.6
307 (2)	01	WS3	B0036	C01	10	00001	506.0	-285.5
307 (2)	01	WS3	B0036	C01	10	00002	506.0	-114.6
335 (2)	01	WS3	B9999	C01	10	00003	564.7	-179.1
335 (2)	01	WS3	B9999	C01	10	00004	564.7	9.8
417 (2)	01	WS3	B9999	C01	10	00005	570.1	-300.4
417 (2)	01	WS3	B9999	C01	10	00006	570.1	-30.0
335 (2)	01	WS4	B0003	C01	10	00016	564.7	334.9
307 (2)	01	WS4	B0036	C01	10	00002	506.0	129.5
307 (2)	01	WS4	B0036	C01	10	00003	506.0	178.4
306 (2)	01	WS4	B9999	C01	10	00001	551.7	156.3
322 (2)	01	WS4	B9999	C01	10	00004	527.2	144.8
322 (2)	01	WS4	B9999	C01	10	00005	527.2	267.2
322 (2)	01	WS4	B9999	C01	10	00006	527.2	<u>560.9</u>
322 (2)	01	WS4	B9999	C01	10	00007	527.2	340.6
322 (2)	01	WS4	B9999	C01	10	00008	527.2	316.1
322 (2)	01	WS4	B9999	C01	10	00009	527.2	193.8
335 (2)	01	WS4	B9999	C01	10	00010	564.7	222.4
335 (2)	01	WS4	B9999	C01	10	00011	564.7	293.3
335 (2)	01	WS4	B9999	C01	10	00012	564.7	-131.9
335 (2)	01	WS4	B9999	C01	10	00013	564.7	57.1
335 (2)	01	WS4	B9999	C01	10	00014	564.7	-13.8
335 (2)	01	WS4	B9999	C01	10	00015	564.7	80.7
335 (2)	01	WS4	B9999	C01	10	00017	564.7	127.9
417 (2)	01	WS4	B9999	C01	10	00018	570.1	166.6

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Maine Yankee Atomic Power Plant Site Characterization

03/24/98

Direct Measurements For Total Beta Activity

Survey Package : B0100 SURFACES & STRUCTURES
Turbine Deck - Elevation 61 ft.

RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	MDA	RESULT
417 (2)	01	WS4	B9999	C01	10	00019	570.1	215.8
417 (2)	01	WS4	B9999	C01	10	00020	570.1	92.9
417 (2)	01	WS4	B9999	C01	10	00021	570.1	-54.6
417 (2)	01	WS4	B9999	C01	10	00022	570.1	92.9
417 (2)	01	WS4	B9999	C01	10	00023	570.1	-54.6
417 (2)	01	WS4	B9999	C01	10	00024	570.1	264.9
417 (2)	01	WS4	B9999	C01	10	00025	570.1	240.3
288 (2)	02	CL1	B0036	C01	10	00001	577.1	48.0
288 (2)	02	FL1	B0001	C01	10	00001	577.1	-69.8
288 (2)	02	WS1	B0036	C01	10	00001	577.1	-72.0
288 (2)	02	WS1	B0036	C01	10	00002	577.1	-312.2
288 (2)	02	WS1	B0036	C01	10	00003	577.1	-120.1
288 (2)	02	WS1	B0036	C01	10	00004	577.1	-144.1
288 (2)	02	WS1	B0036	C01	10	00005	577.1	-48.0
288 (2)	02	WS1	B0036	C01	10	00006	577.1	-192.1
288 (2)	02	WS1	B0036	C01	10	00007	577.1	-216.1
288 (2)	02	WS1	B9999	C01	10	00008	577.1	240.1
335 (2)	03	EQ1	B9999	C01	10	00001	564.7	-344.4
335 (2)	03	EQ1	B9999	C01	10	00002	564.7	175.2
335 (2)	03	EQ1	B9999	C01	10	00003	564.7	-61.0
335 (2)	03	EQ1	B9999	C01	10	00004	564.7	-84.6
335 (2)	03	EQ1	B9999	C01	10	00005	564.7	-155.5
505 (2)	04	EQ1	B9999	C01	10	00001	599.6	37.5
505 (2)	04	EQ1	B9999	C01	10	00002	599.6	37.5
505 (2)	04	EQ1	B9999	C01	10	00003	599.6	-152.1
505 (2)	04	EQ1	B9999	C01	10	00004	599.6	-57.3
505 (2)	04	EQ1	B9999	C01	10	00005	599.6	61.2
505 (2)	04	EQ1	B9999	C01	10	00006	599.6	108.6
505 (2)	04	EQ1	B9999	C01	10	00007	599.6	61.2
505 (2)	04	EQ1	B9999	C01	10	00008	599.6	-57.3
505 (2)	04	RD1	B9999	C01	10	00001	599.6	274.5
505 (2)	04	RD2	B9999	C01	10	00001	599.6	132.3
505 (2)	04	RD3	B9999	C01	10	00001	599.6	156.0
505 (2)	04	RD4	B9999	C01	10	00001	599.6	274.5
505 (2)	04	RD5	B9999	C01	10	00001	599.6	108.6
505 (2)	04	RD6	B9999	C01	10	00001	599.6	227.1
505 (2)	04	RD7	B9999	C01	10	00001	599.6	250.8
505 (2)	04	RD8	B9999	C01	10	00001	599.6	108.6
505 (2)	04	RF1	B9999	C01	10	00001	599.6	298.2
505 (2)	04	RF1	B9999	C01	10	00002	599.6	274.5

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

03/24/98

Direct Measurements For Total Beta Activity

Survey Package : B0100 SURFACES & STRUCTURES
Turbine Deck - Elevation 61 ft.

RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	MDA	RESULT
505 (2)	04	RF1	B9999	C01	10	00003	599.6	464.1
505 (2)	04	RF1	B9999	C01	10	00004	599.6	298.2
505 (2)	04	RF1	B9999	C01	10	00005	599.6	179.7
505 (2)	04	RF1	B9999	C01	10	00006	599.6	321.9
505 (2)	04	RF1	B9999	C01	10	00007	599.6	440.4
505 (2)	04	RF1	B9999	C01	10	00008	599.6	582.6
505 (2)	04	RF1	B9999	C01	10	00009	599.6	321.9
505 (2)	04	RF1	B9999	C01	10	00010	599.6	<u>606.3</u>
505 (2)	04	RF1	B9999	C01	10	00011	599.6	464.1
505 (2)	04	RF1	B9999	C01	10	00012	599.6	393.0
505 (2)	04	RF1	B9999	C01	10	00013	599.6	132.3
505 (2)	04	RF1	B9999	C01	10	00014	599.6	250.8
505 (2)	04	RF1	B9999	C01	10	00015	599.6	37.5
505 (2)	04	RF1	B9999	C01	10	00016	599.6	274.5
505 (2)	04	RF1	B9999	C01	10	00017	599.6	84.9
505 (2)	04	RF1	B9999	C01	10	00018	599.6	250.8
505 (2)	04	RF1	B9999	C01	10	00019	599.6	132.3
505 (2)	04	RF1	B9999	C01	10	00020	599.6	440.4
505 (2)	04	RF1	B9999	C01	10	00021	599.6	582.6
505 (2)	04	RF1	B9999	C01	10	00022	599.6	<u>653.7</u>
505 (2)	04	RF1	B9999	C01	10	00023	599.6	179.7
505 (2)	04	RF1	B9999	C01	10	00024	599.6	440.4
505 (2)	04	RF1	B9999	C01	10	00025	599.6	464.1
505 (2)	04	RF1	B9999	C01	10	00026	599.6	61.2
505 (2)	04	RF1	B9999	C01	10	00027	599.6	582.6
505 (2)	04	RF1	B9999	C01	10	00028	599.6	298.2
505 (2)	04	RF1	B9999	C01	10	00029	599.6	487.8
505 (2)	04	RF1	B9999	C01	10	00030	599.6	393.0

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



Maine Yankee Atomic Power Plant Site Characterization

DOWNLOAD FILE & SURVEY INSTRUMENTATION CALIBRATION SUMMARY

03/24/98

Direct Measurements For Total Beta Activity

Survey Package : B0100 SURFACES & STRUCTURES
Turbine Deck - Elevation 61 ft.

SURVEY DATE	FILE #	M2350		DETECTOR			PRE EFF	TECHNICIAN
		INST S/N	CAL DUE	MODEL	S/N	CAL DUE		
1/1/98	258 (2)	126196	4/15/98	43-106	126897	4/18/98	.20	DJH2236
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
1/1/98	260 (2)	080498	4/8/98	43-68	PR075149	4/8/98	.19	CWI5440
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
1/2/98	268 (2)	126196	4/15/98	43-106	126897	4/18/98	.20	DJH2236
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
1/2/98	274 (2)	080498	4/8/98	43-68	PR075149	4/8/98	.19	CWI5440
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
1/5/98	288 (2)	080498	4/8/98	43-68	PR075149	4/8/98	.20	CWI5440
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
1/5/98	289 (2)	126196	4/15/98	43-106	126897	4/18/98	.20	DJH2236
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
1/6/98	306 (2)	126196	4/15/98	43-106	126897	4/18/98	.20	DJH2236
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
1/6/98	307 (2)	080498	4/8/98	43-68	PR075149	4/8/98	.20	CWI5440
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
1/7/98	322 (2)	126196	4/15/98	43-106	126897	4/18/98	.19	DJH2236
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
1/8/98	335 (2)	126196	4/15/98	43-106	126897	4/18/98	.20	DJH2236
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
1/8/98	337 (2)	080498	4/8/98	43-68	PR075149	4/8/98	.19	CWI5440
CALIBRATION DATES VERIFIED AS ACCEPTABLE								



Maine Yankee Atomic Power Plant Site Characterization

DOWNLOAD FILE & SURVEY INSTRUMENTATION CALIBRATION SUMMARY

03/24/98

Direct Measurements For Total Beta Activity

Survey Package: B0100 SURFACES & STRUCTURES
Turbine Deck - Elevation 61 ft.

SURVEY DATE	FILE #	M2350		DETECTOR			PRE EFF	TECHNICIAN
		INST S/N	CAL DUE	MODEL	S/N	CAL DUE		
1/15/98	401 (2)	080498	4/8/98	43-68	PR075149	4/8/98	.19	CWI5440
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
1/15/98	417 (2)	126196	4/15/98	43-106	126897	4/18/98	.19	DJH2236
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
1/22/98	475 (2)	126196	4/15/98	43-106	126897	4/18/98	.20	DJH2236
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
1/28/98	505 (2)	129401	6/10/98	43-106	128923	6/8/98	.20	GLL9768
CALIBRATION DATES VERIFIED AS ACCEPTABLE								



Maine Yankee Atomic Power Plant Site Characterization

03/24/98

Removable Contamination - Gross Beta Activity

Survey Package B0100 SURFACES & STRUCTURES
Turbine Deck - Elevation 61 ft.

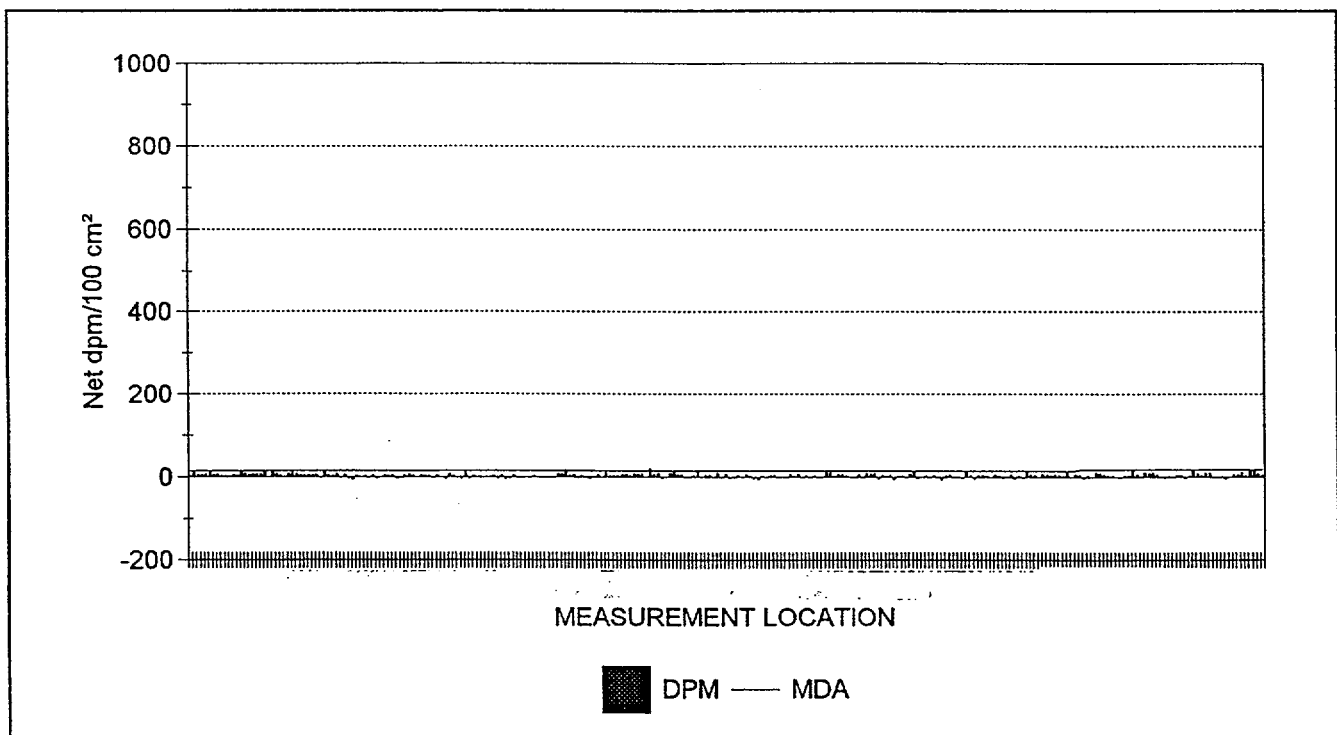
STATISTICAL SUMMARY

TESTS PERFORMED

	Net dpm/100 cm ²
Mean	3.5
Maximum	19.1
Minimum	-6.2
Standard Deviation	4.8
MDA	17.3

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

Samples Reported	268
Samples Prescribed	267



268 RESULTS ARE GRAPHED



Maine Yankee Atomic Power Plant Site Characterization

03/24/98

Removable Contamination - Gross Alpha Activity

Survey Package B0100 SURFACES & STRUCTURES
Turbine Deck - Elevation 61 ft.

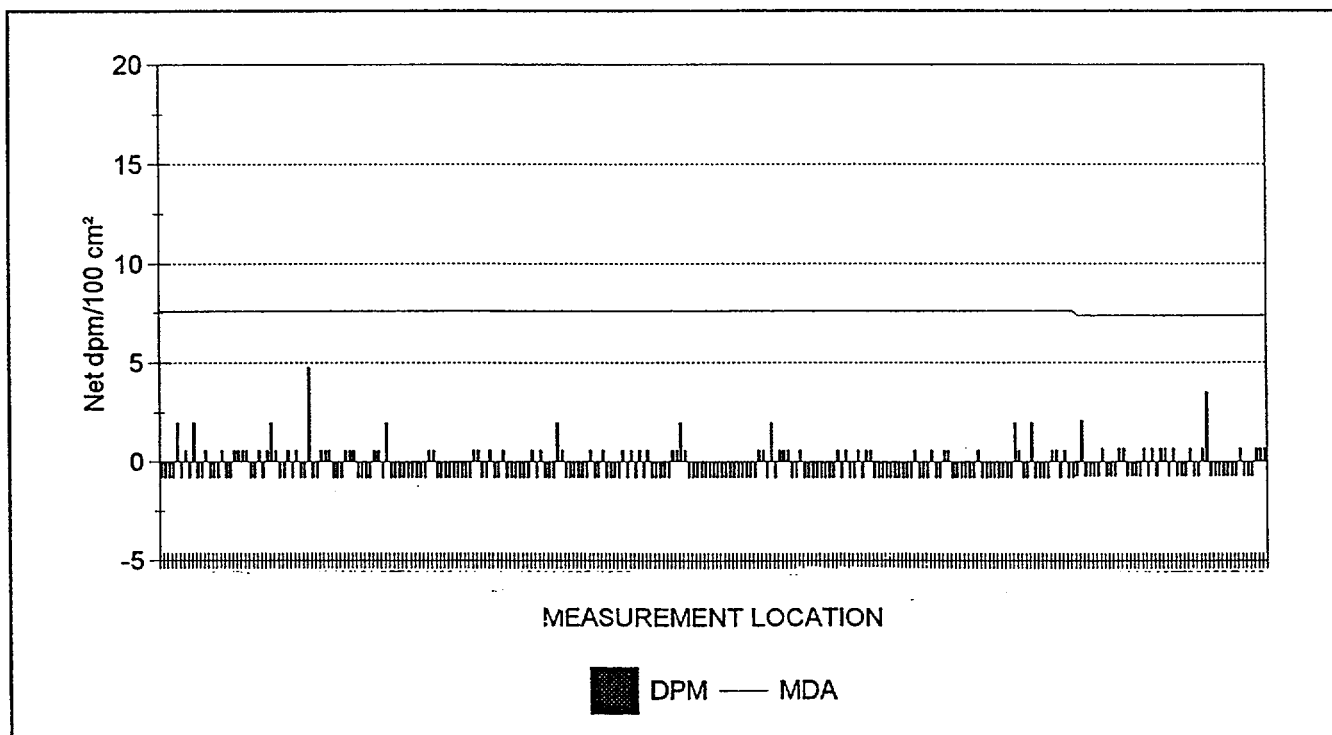
STATISTICAL SUMMARY

TESTS PERFORMED

	Net dpm/100 cm ²
Mean	-0.3
Maximum	4.8
Minimum	-0.9
Standard Deviation	0.9
MDA	7.6

Samples reported satisfy samples prescribed	YES
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	268
Samples Prescribed	267



268 RESULTS ARE GRAPHED



Maine Yankee Atomic Power Plant Site Characterization

03/24/98

Removable Contamination

Survey Package : B0100 SURFACES & STRUCTURES
Turbine Deck - Elevation 61 ft.

RESULTS LISTING - SORTED BY SURFACE CODE

XLS FILE	UNIT	SURFACE	REASON	COUNT TIME	MSRMNT LOCATION	ALPHA	BETA
SME1B027.XLS	04	RF1	C01	2	9	0.7	4.9
SME1B027.XLS	04	RF1	C01	2	8	0.7	8.3
SME1B027.XLS	04	RF1	C01	2	7	0.7	18.4
SME1B027.XLS	04	RF1	C01	2	6	-0.8	18.4
SME1B027.XLS	04	RF1	C01	2	5	-0.8	3.3
SME1B027.XLS	04	RF1	C01	2	4	-0.8	11.7
SME1B027.XLS	04	RF1	C01	2	30	0.7	6.6
SME1B027.XLS	04	RF1	C01	2	3	-0.8	6.6
SME1B027.XLS	04	RF1	C01	2	29	-0.8	-0.1
SME1B027.XLS	04	RF1	C01	2	28	-0.8	-5.2
SME1B027.XLS	04	RF1	C01	2	27	-0.8	1.6
SME1B027.XLS	04	RF1	C01	2	26	-0.8	-0.1
SME1B027.XLS	04	RF1	C01	2	25	-0.8	-1.8
SME1B027.XLS	04	RF1	C01	2	24	-0.8	10.0
SME1B027.XLS	04	RF1	C01	2	23	3.5	10.0
SME1B027.XLS	04	RF1	C01	2	22	0.7	4.9
SME1B027.XLS	04	RF1	C01	2	21	-0.8	8.3
SME1B027.XLS	04	RF1	C01	2	20	-0.8	16.7
SME1B027.XLS	04	RF1	C01	2	2	0.7	3.3
SME1B027.XLS	04	RF1	C01	2	19	-0.8	-3.5
SME1B027.XLS	04	RF1	C01	2	18	-0.8	4.9
SME1B027.XLS	04	RF1	C01	2	17	-0.8	4.9
SME1B027.XLS	04	RF1	C01	2	16	0.7	-0.1
SME1B027.XLS	04	RF1	C01	2	15	-0.8	1.6
SME1B027.XLS	04	RF1	C01	2	14	0.7	-1.8
SME1B027.XLS	04	RF1	C01	2	13	0.7	-0.1
SME1B027.XLS	04	RF1	C01	2	12	-0.8	6.6
SME1B027.XLS	04	RF1	C01	2	11	0.7	10.0
SME1B027.XLS	04	RF1	C01	2	10	-0.8	8.3
SME1B027.XLS	04	RF1	C01	2	1	0.7	10.0
SME1B027.XLS	04	RD8	C01	2	1	-0.8	1.6
SME1B027.XLS	04	RD7	C01	2	1	-0.8	6.6
SME1B027.XLS	04	RD6	C01	2	1	-0.8	15.0
SME1B027.XLS	04	RD5	C01	2	1	-0.8	3.3
SME1B027.XLS	04	RD4	C01	2	1	0.7	3.3
SME1B027.XLS	04	RD3	C01	2	1	0.7	-1.8
SME1B027.XLS	04	RD2	C01	2	1	-0.8	-0.1
SME1B027.XLS	04	RD1	C01	2	1	-0.8	3.3
SME1B027.XLS	04	EQ1	C01	2	8	-0.8	3.3
SME1B027.XLS	04	EQ1	C01	2	7	0.7	6.6

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

03/24/98

Removable Contamination

Survey Package : B0100 SURFACES & STRUCTURES
Turbine Deck - Elevation 61 ft.

RESULTS LISTING - SORTED BY SURFACE CODE

XLS FILE	UNIT	SURFACE	REASON	COUNT	MSRMNT	ALPHA	BETA
				TIME	LOCATION		
SME1B027.XLS	04	EQ1	C01	2	6	-0.8	8.3
SME1B027.XLS	04	EQ1	C01	2	5	-0.8	10.0
SME1B027.XLS	04	EQ1	C01	2	4	-0.8	-0.1
SME1B027.XLS	04	EQ1	C01	2	3	-0.8	3.3
SME1B027.XLS	04	EQ1	C01	2	2	2.1	-3.5
SME1B027.XLS	04	EQ1	C01	2	1	-0.8	4.9
SME1B023.XLS	03	EQ1	C01	2	5	-0.8	5.6
SME1B023.XLS	03	EQ1	C01	2	4	-0.8	0.6
SME1B023.XLS	03	EQ1	C01	2	3	0.6	12.3
SME1B023.XLS	03	EQ1	C01	2	2	-0.8	2.2
SME1B023.XLS	03	EQ1	C01	2	1	0.6	3.9
SME1B023.XLS	02	WS1	C01	2	8	0.6	5.6
SME1B023.XLS	02	WS1	C01	2	7	-0.8	3.9
SME1B023.XLS	02	WS1	C01	2	6	-0.8	5.6
SME1B023.XLS	02	WS1	C01	2	5	-0.8	7.3
SME1B023.XLS	02	WS1	C01	2	4	-0.8	0.6
SME1B023.XLS	02	WS1	C01	2	3	2.0	3.9
SME1B023.XLS	02	WS1	C01	2	2	-0.8	5.6
SME1B023.XLS	02	WS1	C01	2	1	-0.8	14.0
SME1B023.XLS	02	FL1	C01	2	1	0.6	-2.8
SME1B023.XLS	02	CL1	C01	2	1	2.0	2.2
SME1B023.XLS	01	WS4	C01	2	9A	-0.8	-4.5
SME1B023.XLS	01	WS4	C01	2	9	-0.8	5.6
SME1B023.XLS	01	WS4	C01	2	8	-0.8	0.6
SME1B023.XLS	01	WS4	C01	2	7	-0.8	-1.1
SME1B023.XLS	01	WS4	C01	2	6	-0.8	2.2
SME1B023.XLS	01	WS4	C01	2	5	-0.8	5.6
SME1B023.XLS	01	WS4	C01	2	4	-0.8	-1.1
SME1B023.XLS	01	WS4	C01	2	3	-0.8	2.2
SME1B023.XLS	01	WS4	C01	2	24	0.6	3.9
SME1B023.XLS	01	WS4	C01	2	23	-0.8	3.9
SME1B023.XLS	01	WS4	C01	2	22	-0.8	-4.5
SME1B023.XLS	01	WS4	C01	2	21	-0.8	3.9
SME1B023.XLS	01	WS4	C01	2	20	-0.8	14.0
SME1B023.XLS	01	WS4	C01	2	2	-0.8	-2.8
SME1B023.XLS	01	WS4	C01	2	19	-0.8	-1.1
SME1B023.XLS	01	WS4	C01	2	18	0.6	-1.1
SME1B023.XLS	01	WS4	C01	2	17	0.6	5.6
SME1B023.XLS	01	WS4	C01	2	16	-0.8	2.2
SME1B023.XLS	01	WS4	C01	2	15	-0.8	-6.2

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03/24/98

Removable Contamination

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Turbine Deck - Elevation 61 ft.

RESULTS LISTING - SORTED BY SURFACE CODE

XLS FILE	UNIT	SURFACE	REASON	COUNT	MSRMNT	ALPHA	BETA
				TIME	LOCATION		
SME1B023.XLS	01	WS4	C01	2	14	0.6	-1.1
SME1B023.XLS	01	WS4	C01	2	13	-0.8	3.9
SME1B023.XLS	01	WS4	C01	2	12	-0.8	0.6
SME1B023.XLS	01	WS4	C01	2	11	-0.8	2.2
SME1B023.XLS	01	WS4	C01	2	10	0.6	0.6
SME1B023.XLS	01	WS4	C01	2	1	-0.8	-2.8
SME1B023.XLS	01	WS3	C01	2	6	-0.8	12.3
SME1B023.XLS	01	WS3	C01	2	5	-0.8	7.3
SME1B023.XLS	01	WS3	C01	2	4	-0.8	0.6
SME1B023.XLS	01	WS3	C01	2	3	-0.8	2.2
SME1B023.XLS	01	WS3	C01	2	2	-0.8	2.2
SME1B023.XLS	01	WS3	C01	2	1	-0.8	-6.2
SME1B023.XLS	01	WS2	C01	2	9A	-0.8	3.9
SME1B023.XLS	01	WS2	C01	2	9	-0.8	2.2
SME1B023.XLS	01	WS2	C01	2	8	-0.8	3.9
SME1B023.XLS	01	WS2	C01	2	7	0.6	-4.5
SME1B023.XLS	01	WS2	C01	2	6	0.6	9.0
SME1B023.XLS	01	WS2	C01	2	5	-0.8	7.3
SME1B023.XLS	01	WS2	C01	2	4	0.6	9.0
SME1B023.XLS	01	WS2	C01	2	3	-0.8	-1.1
SME1B023.XLS	01	WS2	C01	2	24	-0.8	5.6
SME1B023.XLS	01	WS2	C01	2	23	0.6	-1.1
SME1B023.XLS	01	WS2	C01	2	22	-0.8	0.6
SME1B023.XLS	01	WS2	C01	2	21	0.6	2.2
SME1B023.XLS	01	WS2	C01	2	20	-0.8	5.6
SME1B023.XLS	01	WS2	C01	2	2	-0.8	5.6
SME1B023.XLS	01	WS2	C01	2	19	-0.8	2.2
SME1B023.XLS	01	WS2	C01	2	18	-0.8	10.7
SME1B023.XLS	01	WS2	C01	2	17	-0.8	10.7
SME1B023.XLS	01	WS2	C01	2	16	-0.8	0.6
SME1B023.XLS	01	WS2	C01	2	15	-0.8	-1.1
SME1B023.XLS	01	WS2	C01	2	14	-0.8	2.2
SME1B023.XLS	01	WS2	C01	2	13	0.6	-1.1
SME1B023.XLS	01	WS2	C01	2	12	-0.8	2.2
SME1B023.XLS	01	WS2	C01	2	11	-0.8	-1.1
SME1B023.XLS	01	WS2	C01	2	10	0.6	7.3
SME1B023.XLS	01	WS2	C01	2	1	0.6	2.2
SME1B023.XLS	01	WS1	C01	2	6	0.6	7.3
SME1B023.XLS	01	WS1	C01	2	5	-0.8	-1.1
SME1B023.XLS	01	WS1	C01	2	4	2.0	0.6

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Maine Yankee Atomic Power Plant Site Characterization

03/24/98

Removable Contamination

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RESULTS LISTING - SORTED BY SURFACE CODE

XLS FILE	UNIT	SURFACE	REASON	COUNT	MSRMNT	ALPHA	BETA
				TIME	LOCATION		
SME1B023.XLS	01	WS1	C01	2	3	-0.8	0.6
SME1B023.XLS	01	WS1	C01	2	2	0.6	3.9
SME1B023.XLS	01	WS1	C01	2	1	0.6	2.2
SME1B023.XLS	01	FL1	C01	2	9	-0.8	0.6
SME1B023.XLS	01	FL1	C01	2	8	-0.8	2.2
SME1B023.XLS	01	FL1	C01	2	7	-0.8	-6.2
SME1B023.XLS	01	FL1	C01	2	60	-0.8	-4.5
SME1B023.XLS	01	FL1	C01	2	6	-0.8	2.2
SME1B023.XLS	01	FL1	C01	2	59	-0.8	5.6
SME1B023.XLS	01	FL1	C01	2	58	-0.8	0.6
SME1B023.XLS	01	FL1	C01	2	57	-0.8	3.9
SME1B023.XLS	01	FL1	C01	2	56	-0.8	-1.1
SME1B023.XLS	01	FL1	C01	2	55	-0.8	-2.8
SME1B023.XLS	01	FL1	C01	2	54	-0.8	7.3
SME1B023.XLS	01	FL1	C01	2	53	-0.8	-1.1
SME1B023.XLS	01	FL1	C01	2	52	-0.8	9.0
SME1B023.XLS	01	FL1	C01	2	51	-0.8	0.6
SME1B023.XLS	01	FL1	C01	2	50	-0.8	3.9
SME1B023.XLS	01	FL1	C01	2	5	-0.8	3.9
SME1B023.XLS	01	FL1	C01	2	49	-0.8	0.6
SME1B023.XLS	01	FL1	C01	2	48	0.6	15.7
SME1B023.XLS	01	FL1	C01	2	47	2.0	2.2
SME1B023.XLS	01	FL1	C01	2	46	0.6	-1.1
SME1B023.XLS	01	FL1	C01	2	45	0.6	0.6
SME1B023.XLS	01	FL1	C01	2	44	-0.8	5.6
SME1B023.XLS	01	FL1	C01	2	43	-0.8	5.6
SME1B023.XLS	01	FL1	C01	2	42	-0.8	12.3
SME1B023.XLS	01	FL1	C01	2	41	-0.8	9.0
SME1B023.XLS	01	FL1	C01	2	40	-0.8	0.6
SME1B023.XLS	01	FL1	C01	2	4	0.6	-2.8
SME1B023.XLS	01	FL1	C01	2	39	-0.8	9.0
SME1B023.XLS	01	FL1	C01	2	38	0.6	5.6
SME1B023.XLS	01	FL1	C01	2	37	-0.8	19.1
SME1B023.XLS	01	FL1	C01	2	36	0.6	0.6
SME1B023.XLS	01	FL1	C01	2	35	-0.8	7.3
SME1B023.XLS	01	FL1	C01	2	34	0.6	7.3
SME1B023.XLS	01	FL1	C01	2	33	-0.8	7.3
SME1B023.XLS	01	FL1	C01	2	32	-0.8	2.2
SME1B023.XLS	01	FL1	C01	2	31	-0.8	7.3
SME1B023.XLS	01	FL1	C01	2	30	-0.8	5.6

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Removable Contamination

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RESULTS LISTING - SORTED BY SURFACE CODE

XLS FILE	UNIT	SURFACE	REASON	COUNT	MSRMNT	ALPHA	BETA
				TIME	LOCATION		
SME1B023.XLS	01	FL1	C01	2	3	0.6	2.2
SME1B023.XLS	01	FL1	C01	2	29	-0.8	2.2
SME1B023.XLS	01	FL1	C01	2	28	-0.8	2.2
SME1B023.XLS	01	FL1	C01	2	27	0.6	10.7
SME1B023.XLS	01	FL1	C01	2	26	-0.8	-1.1
SME1B023.XLS	01	FL1	C01	2	25	-0.8	5.6
SME1B023.XLS	01	FL1	C01	2	24	-0.8	0.6
SME1B023.XLS	01	FL1	C01	2	23	-0.8	-2.8
SME1B023.XLS	01	FL1	C01	2	22	-0.8	0.6
SME1B023.XLS	01	FL1	C01	2	21	-0.8	2.2
SME1B023.XLS	01	FL1	C01	2	20	0.6	-1.1
SME1B023.XLS	01	FL1	C01	2	2	2.0	5.6
SME1B023.XLS	01	FL1	C01	2	19	-0.8	3.9
SME1B023.XLS	01	FL1	C01	2	18	-0.8	15.7
SME1B023.XLS	01	FL1	C01	2	17	-0.8	7.3
SME1B023.XLS	01	FL1	C01	2	16	0.6	7.3
SME1B023.XLS	01	FL1	C01	2	15	-0.8	-1.1
SME1B023.XLS	01	FL1	C01	2	14	0.6	0.6
SME1B023.XLS	01	FL1	C01	2	13	-0.8	-1.1
SME1B023.XLS	01	FL1	C01	2	12	-0.8	0.6
SME1B023.XLS	01	FL1	C01	2	11	-0.8	0.6
SME1B023.XLS	01	FL1	C01	2	10	-0.8	2.2
SME1B023.XLS	01	FL1	C01	2	1	-0.8	-1.1
SME1B023.XLS	01	EQ9	C01	2	4	-0.8	0.6
SME1B023.XLS	01	EQ9	C01	2	3	0.6	-1.1
SME1B023.XLS	01	EQ9	C01	2	2	-0.8	-1.1
SME1B023.XLS	01	EQ9	C01	2	1	-0.8	3.9
SME1B023.XLS	01	EQ8	C01	2	2	0.6	-2.8
SME1B023.XLS	01	EQ8	C01	2	1	-0.8	-4.5
SME1B023.XLS	01	EQ7	C01	2	2	-0.8	3.9
SME1B023.XLS	01	EQ7	C01	2	1	0.6	-2.8
SME1B023.XLS	01	EQ6	C01	2	8	0.6	2.2
SME1B023.XLS	01	EQ6	C01	2	7	-0.8	0.6
SME1B023.XLS	01	EQ6	C01	2	6	-0.8	0.6
SME1B023.XLS	01	EQ6	C01	2	5	-0.8	-1.1
SME1B023.XLS	01	EQ6	C01	2	4	-0.8	0.6
SME1B023.XLS	01	EQ6	C01	2	3	-0.8	2.2
SME1B023.XLS	01	EQ6	C01	2	2	-0.8	-2.8
SME1B023.XLS	01	EQ6	C01	2	1	-0.8	10.7
SME1B023.XLS	01	EQ5	C01	2	8	-0.8	-4.5

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

03/24/98

Removable Contamination

Survey Package : B0100 SURFACES & STRUCTURES
Turbine Deck - Elevation 61 ft.

RESULTS LISTING - SORTED BY SURFACE CODE

XLS FILE	UNIT	SURFACE	REASON	COUNT TIME	MSRMNT LOCATION	ALPHA	BETA
SME1B023.XLS	01	EQ5	C01	2	7	-0.8	-1.1
SME1B023.XLS	01	EQ5	C01	2	6	0.6	2.2
SME1B023.XLS	01	EQ5	C01	2	5	0.6	7.3
SME1B023.XLS	01	EQ5	C01	2	4	-0.8	-4.5
SME1B023.XLS	01	EQ5	C01	2	3	-0.8	0.6
SME1B023.XLS	01	EQ5	C01	2	2	-0.8	3.9
SME1B023.XLS	01	EQ5	C01	2	1	-0.8	-1.1
SME1B023.XLS	01	EQ4	C01	2	9	-0.8	2.2
SME1B023.XLS	01	EQ4	C01	2	8	-0.8	2.2
SME1B023.XLS	01	EQ4	C01	2	7	-0.8	3.9
SME1B023.XLS	01	EQ4	C01	2	6	-0.8	0.6
SME1B023.XLS	01	EQ4	C01	2	5	-0.8	3.9
SME1B023.XLS	01	EQ4	C01	2	4	2.0	7.3
SME1B023.XLS	01	EQ4	C01	2	3	-0.8	3.9
SME1B023.XLS	01	EQ4	C01	2	2	0.6	-1.1
SME1B023.XLS	01	EQ4	C01	2	14	0.6	-2.8
SME1B023.XLS	01	EQ4	C01	2	13	-0.8	3.9
SME1B023.XLS	01	EQ4	C01	2	12	-0.8	2.2
SME1B023.XLS	01	EQ4	C01	2	11	-0.8	3.9
SME1B023.XLS	01	EQ4	C01	2	10	-0.8	0.6
SME1B023.XLS	01	EQ4	C01	2	1	0.6	-2.8
SME1B023.XLS	01	EQ3	C01	2	8	0.6	3.9
SME1B023.XLS	01	EQ3	C01	2	7	0.6	-1.1
SME1B023.XLS	01	EQ3	C01	2	6	-0.8	2.2
SME1B023.XLS	01	EQ3	C01	2	5	-0.8	0.6
SME1B023.XLS	01	EQ3	C01	2	4	-0.8	2.2
SME1B023.XLS	01	EQ3	C01	2	3	0.6	-6.2
SME1B023.XLS	01	EQ3	C01	2	2	0.6	-2.8
SME1B023.XLS	01	EQ3	C01	2	1	0.6	5.6
SME1B023.XLS	01	EQ2	C01	2	4	-0.8	-1.1
SME1B023.XLS	01	EQ2	C01	2	3	-0.8	7.3
SME1B023.XLS	01	EQ2	C01	2	2	4.8	2.2
SME1B023.XLS	01	EQ2	C01	2	1	-0.8	3.9
SME1B023.XLS	01	EQ1	C01	2	5	-0.8	12.3
SME1B023.XLS	01	EQ1	C01	2	4	0.6	-1.1
SME1B023.XLS	01	EQ1	C01	2	3	-0.8	5.6
SME1B023.XLS	01	EQ1	C01	2	2	0.6	3.9
SME1B023.XLS	01	EQ1	C01	2	1	-0.8	3.9
SME1B023.XLS	01	CL2	C01	2	9	-0.8	3.9
SME1B023.XLS	01	CL2	C01	2	8	0.6	3.9

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

03/24/98

Removable Contamination

Survey Package : B0100 SURFACES & STRUCTURES
Turbine Deck - Elevation 61 ft.

RESULTS LISTING - SORTED BY SURFACE CODE

XLS FILE	UNIT	SURFACE	REASON	COUNT TIME	MSRMNT LOCATION	ALPHA	BETA
SME1B023.XLS	01	CL2	C01	2	7	2.0	7.3
SME1B023.XLS	01	CL2	C01	2	6	0.6	10.7
SME1B023.XLS	01	CL2	C01	2	5	-0.8	7.3
SME1B023.XLS	01	CL2	C01	2	4	0.6	0.6
SME1B023.XLS	01	CL2	C01	2	30	-0.8	3.9
SME1B023.XLS	01	CL2	C01	2	3	-0.8	7.3
SME1B023.XLS	01	CL2	C01	2	29	0.6	14.0
SME1B023.XLS	01	CL2	C01	2	28	0.6	0.6
SME1B023.XLS	01	CL2	C01	2	27	0.6	14.0
SME1B023.XLS	01	CL2	C01	2	26	0.6	7.3
SME1B023.XLS	01	CL2	C01	2	25	-0.8	7.3
SME1B023.XLS	01	CL2	C01	2	24	-0.8	7.3
SME1B023.XLS	01	CL2	C01	2	23	0.6	5.6
SME1B023.XLS	01	CL2	C01	2	22	-0.8	9.0
SME1B023.XLS	01	CL2	C01	2	21	-0.8	14.0
SME1B023.XLS	01	CL2	C01	2	20	-0.8	3.9
SME1B023.XLS	01	CL2	C01	2	2	0.6	5.6
SME1B023.XLS	01	CL2	C01	2	19	-0.8	2.2
SME1B023.XLS	01	CL2	C01	2	18	-0.8	2.2
SME1B023.XLS	01	CL2	C01	2	17	2.0	2.2
SME1B023.XLS	01	CL2	C01	2	16	-0.8	7.3
SME1B023.XLS	01	CL2	C01	2	15	0.6	5.6
SME1B023.XLS	01	CL2	C01	2	14	-0.8	12.3
SME1B023.XLS	01	CL2	C01	2	13	2.0	7.3
SME1B023.XLS	01	CL2	C01	2	12	-0.8	5.6
SME1B023.XLS	01	CL2	C01	2	11	-0.8	5.6
SME1B023.XLS	01	CL2	C01	2	10	-0.8	12.3
SME1B023.XLS	01	CL2	C01	2	1	-0.8	2.2

NOTES: Activity reported in net dpm/100 cm². Count times are reported in minutes.
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).
268 results are listed.



Maine Yankee Atomic Power Plant Site Characterization

DATAFILE & TENNELEC CALIBRATION SUMMARY

03/24/98

Removable Contamination

Survey Package : B0100 SURFACES & STRUCTURES
Turbine Deck - Elevation 61 ft.

SURVEYDATE	XLS FILE	INST ID	S/N	CAL DUE	LAB TECHNICIAN
2/9/98	SME1B023.XLS	1	14131	8/7/98	SNM
CALIBRATION DATE VERIFIED AS ACCEPTABLE					
2/9/98	SME1B027.XLS	1	14131	8/7/98	RWD
CALIBRATION DATE VERIFIED AS ACCEPTABLE					



Maine Yankee Atomic Power Plant Site Characterization

03/24/98

Gamma Exposure Rate Measurements At 1 Meter

Survey Package B0100 SURFACES & STRUCTURES
Turbine Deck - Elevation 61 ft.

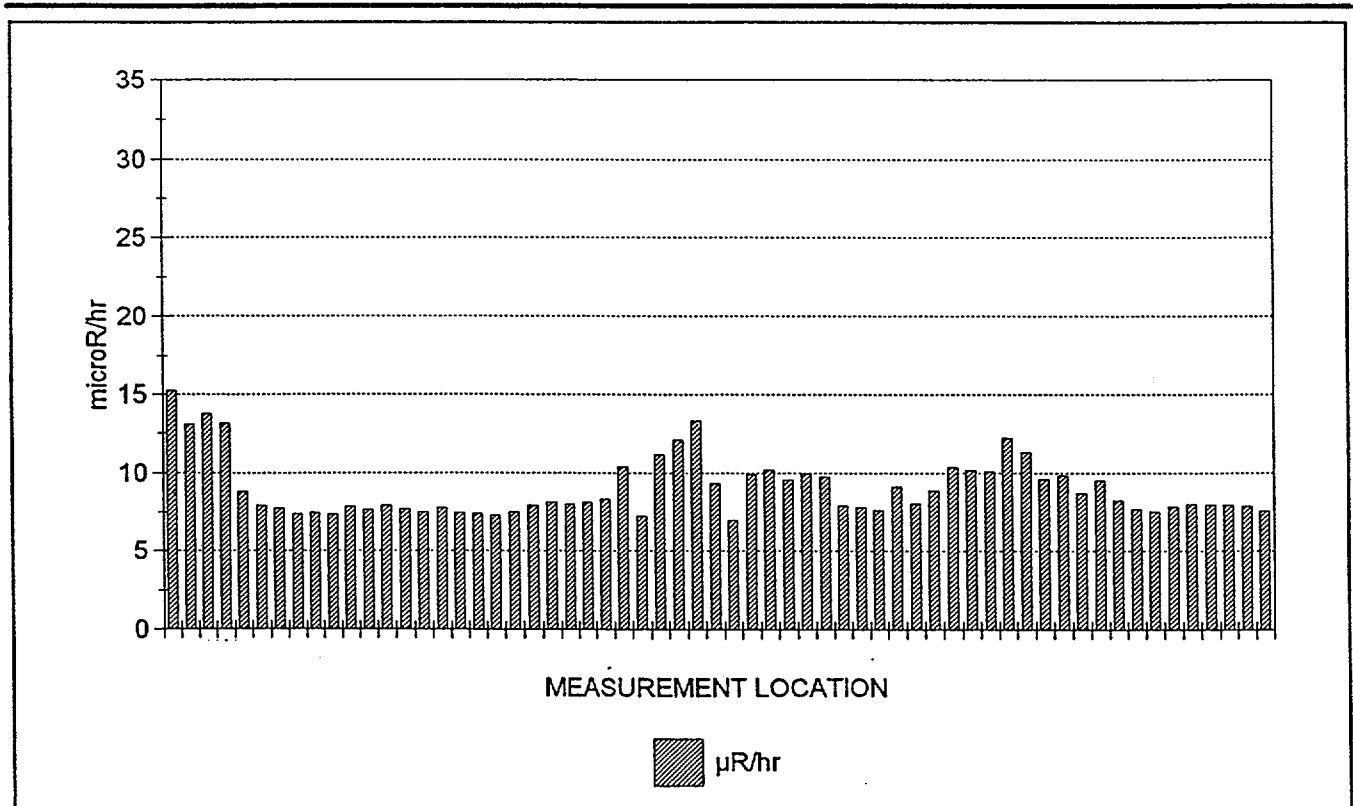
STATISTICAL SUMMARY

TESTS PERFORMED

	$\mu\text{R/hr}$
Mean	9.0
Maximum	15.2
Minimum	6.9
Standard Deviation	1.9

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



61 RESULTS ARE GRAPHED



Maine Yankee Atomic Power Plant Site Characterization

03/24/98

Gamma Exposure Rate Measurements At 1 Meter

Survey Package : B0100 SURFACES & STRUCTURES
Turbine Deck - Elevation 61 ft.

RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	RESULT
447 (2)	01	FL1	B0001	C01	60.00	00001	15.2
447 (2)	01	FL1	B0001	C01	60.00	00002	13.1
447 (2)	01	FL1	B0001	C01	60.00	00003	13.8
447 (2)	01	FL1	B0001	C01	60.00	00004	13.2
447 (2)	01	FL1	B0001	C01	60.00	00005	8.8
447 (2)	01	FL1	B0001	C01	60.00	00006	7.9
447 (2)	01	FL1	B0001	C01	60.00	00007	7.7
447 (2)	01	FL1	B0001	C01	60.00	00008	7.4
447 (2)	01	FL1	B0001	C01	60.00	00009	7.4
447 (2)	01	FL1	B0001	C01	60.00	00010	7.4
447 (2)	01	FL1	B0001	C01	60.00	00011	7.8
447 (2)	01	FL1	B0001	C01	60.00	00012	7.7
447 (2)	01	FL1	B0001	C01	60.00	00013	7.9
447 (2)	01	FL1	B0001	C01	60.00	00014	7.7
447 (2)	01	FL1	B0001	C01	60.00	00015	7.5
447 (2)	01	FL1	B0001	C01	60.00	00016	7.8
447 (2)	01	FL1	B0001	C01	60.00	00017	7.5
447 (2)	01	FL1	B0001	C01	60.00	00018	7.4
447 (2)	01	FL1	B0001	C01	60.00	00019	7.3
447 (2)	01	FL1	B0001	C01	60.00	00020	7.5
447 (2)	01	FL1	B0001	C01	60.00	00021	7.9
447 (2)	01	FL1	B0001	C01	60.00	00022	8.1
447 (2)	01	FL1	B0001	C01	60.00	00023	8.0
447 (2)	01	FL1	B0001	C01	60.00	00024	8.1
447 (2)	01	FL1	B0001	C01	60.00	00025	8.3
447 (2)	01	FL1	B0001	C01	60.00	00026	10.4
447 (2)	01	FL1	B0001	C01	60.00	00027	7.2
447 (2)	01	FL1	B0001	C01	60.00	00028	11.2
447 (2)	01	FL1	B0001	C01	60.00	00029	12.1
447 (2)	01	FL1	B0001	C01	60.00	00030	13.3
447 (2)	01	FL1	B0001	C01	60.00	00031	9.3
447 (2)	01	FL1	B0001	C01	60.00	00032	6.9
447 (2)	01	FL1	B0001	C01	60.00	00033	9.9
447 (2)	01	FL1	B0001	C01	60.00	00034	10.2
447 (2)	01	FL1	B0001	C01	60.00	00035	9.6
447 (2)	01	FL1	B0001	C01	60.00	00036	10.0
447 (2)	01	FL1	B0001	C01	60.00	00037	9.8
447 (2)	01	FL1	B0001	C01	60.00	00038	7.9
447 (2)	01	FL1	B0001	C01	60.00	00039	7.8
447 (2)	01	FL1	B0001	C01	60.00	00040	7.6

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.



Maine Yankee Atomic Power Plant Site Characterization

03/24/98

Gamma Exposure Rate Measurements At 1 Meter

Survey Package : B0100 SURFACES & STRUCTURES
Turbine Deck - Elevation 61 ft.

RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	RESULT
447 (2)	01	FL1	B0001	C01	60.00	00041	9.1
447 (2)	01	FL1	B0001	C01	60.00	00042	8.0
447 (2)	01	FL1	B0001	C01	60.00	00043	8.9
447 (2)	01	FL1	B0001	C01	60.00	00044	10.4
447 (2)	01	FL1	B0001	C01	60.00	00045	10.2
447 (2)	01	FL1	B0001	C01	60.00	00046	10.1
447 (2)	01	FL1	B0001	C01	60.00	00047	12.2
447 (2)	01	FL1	B0001	C01	60.00	00048	11.3
447 (2)	01	FL1	B0001	C01	60.00	00049	9.6
447 (2)	01	FL1	B0001	C01	60.00	00050	9.8
447 (2)	01	FL1	B0001	C01	60.00	00051	8.7
447 (2)	01	FL1	B0001	C01	60.00	00052	9.5
447 (2)	01	FL1	B0001	C01	60.00	00053	8.3
447 (2)	01	FL1	B0001	C01	60.00	00054	7.7
447 (2)	01	FL1	B0001	C01	60.00	00055	7.5
447 (2)	01	FL1	B0001	C01	60.00	00056	7.9
447 (2)	01	FL1	B0001	C01	60.00	00057	8.0
447 (2)	01	FL1	B0001	C01	60.00	00058	8.0
447 (2)	01	FL1	B0001	C01	60.00	00059	8.0
447 (2)	01	FL1	B0001	C01	60.00	00060	7.9
454 (2)	02	FL1	B0001	C01	60.00	00001	7.6

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



Maine Yankee Atomic Power Plant Site Characterization

DOWNLOAD FILE & SURVEY INSTRUMENTATION CALIBRATION SUMMARY

03/24/98

Gamma Exposure Rate Measurements At 1 Meter

Survey Package : B0100 SURFACES & STRUCTURES
Turbine Deck - Elevation 61 ft.

SURVEY DATE	FILE #	M2350		DETECTOR			TECHNICIAN
		INST S/N	CAL DUE	MODEL	S/N	CAL DUE	
1/20/98	447 (2)	126196	4/15/98	44-2	095100	4/19/98	DJH2236
CALIBRATION DATES VERIFIED AS ACCEPTABLE							
1/21/98	454 (2)	126196	4/15/98	44-2	095100	4/19/98	DJH2236
CALIBRATION DATES VERIFIED AS ACCEPTABLE							



Maine Yankee Atomic Power Plant Site Characterization

04/01/98

CHARACTERIZATION SUMMARY

SURVEY PACKAGE NUMBER :B0200

SURFACES & STRUCTURES

PACKAGE DESCRIPTION
Including Computer Room and Cable Tunnels

Control Room - Elevation 21 ft.

SURVEY AREA DESCRIPTION

Control Room, Computer Room and Cable Tunnels

GENERAL HISTORICAL INFORMATION (Operational history, etc.)

Control Room and adjacent Computer Room are concrete floor and concrete block wall construction. Two heavy steel doors are at the entrances. Drop ceiling has been reinforced (seismic protection) and cable tunnels are built into the floor. Approximately 6 years ago, the original tile floor in the control room was covered with carpet. The Computer Room floor was raised for cable routing.

SUMMARY OF CHARACTERIZATION ACTIVITIES

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

Performed a scan of approximately five square meters at 49 survey measurement locations indicated on the survey map(s). This was approximately 10% of the accessible surface area.

Collected direct measurements for total beta activity at 49 survey measurement locations at the highest location identified in the scan. If an elevated location was not observed, the measurement was collected at an arbitrary location, selected by the technician, within the five square meter scanned area.

Collected smear samples to analyze for removable alpha and beta activity at the same 49 survey locations of direct measurements for total beta activity.

Collected one meter gamma exposure rate measurements at 13 survey locations for direct measurements for total beta activity on floor surfaces.

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

CHARACTERIZATION SURVEY RESULTS

- o There were 8 direct measurements for total beta activity above MDA (616 dpm/100cm²) and no results greater than 2000 dpm/100cm². The maximum measurement result was 1,054 dpm/100cm².
- o There were 3 measurements for removable beta activity above MDA (15.5 dpm/100cm²) and no result greater than 100 dpm/100cm². The maximum measurement result was 25.8 dpm/100cm².
- o There were no measurements for removable alpha activity above MDA (7.6 dpm/100cm²).
- o The average and maximum one meter exposure rate measurement results were 10.2 µR/hr and 12.5 µR/hr respectively.

REFERENCES (Documents, Interviews)



Maine Yankee Atomic Power Plant Site Characterization

03/24/98

Direct Measurements For Total Beta Activity

Survey Package B0200 SURFACES & STRUCTURES
Control Room - Elevation 21 ft.
Including Computer Room and Cable Tunnels

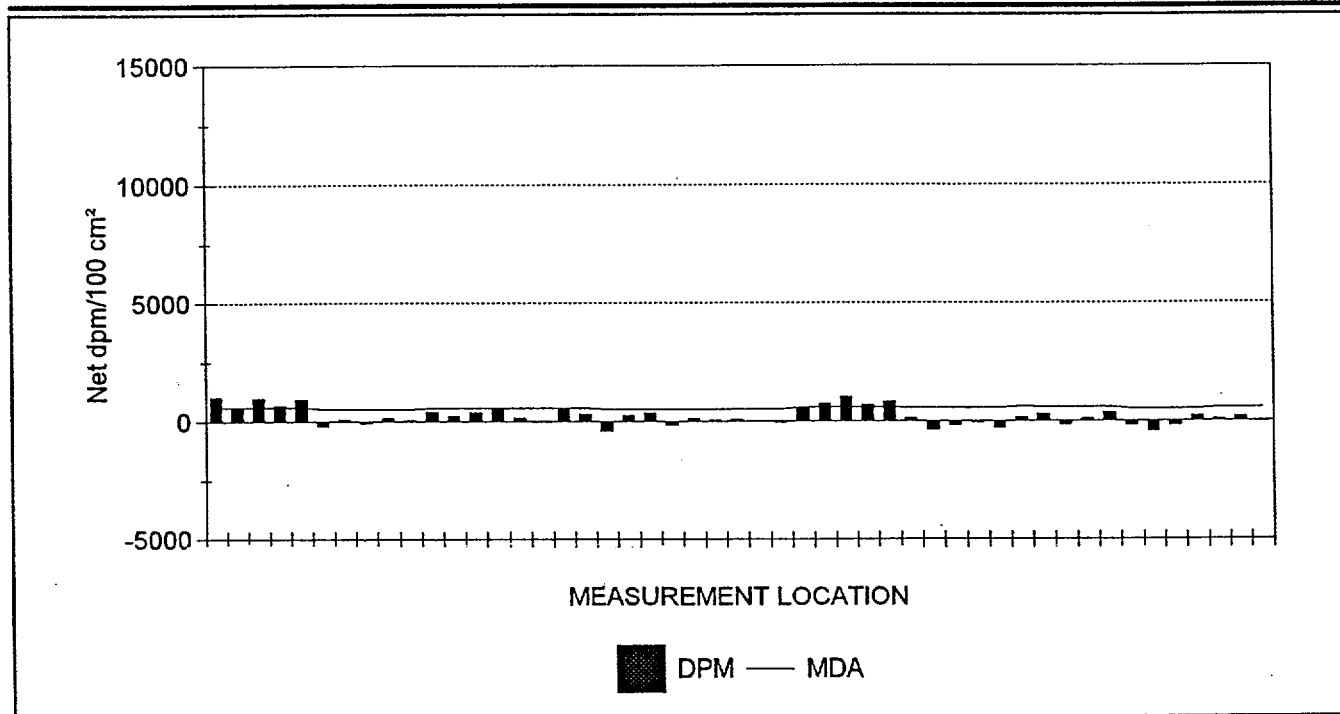
STATISTICAL SUMMARY

TESTS PERFORMED

	Net dpm/100 cm ²
Mean	215.8
Maximum	1,054.2
Minimum	-422.0
Standard Deviation	384.1
MDA	615.6

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	8

Samples Reported	49
Samples Prescribed	49



49 RESULTS ARE GRAPHED



Maine Yankee Atomic Power Plant Site Characterization

SUMMARY OF SURVEY UNIT(S)

03/24/98

OUTPUT BATCH SN = 220

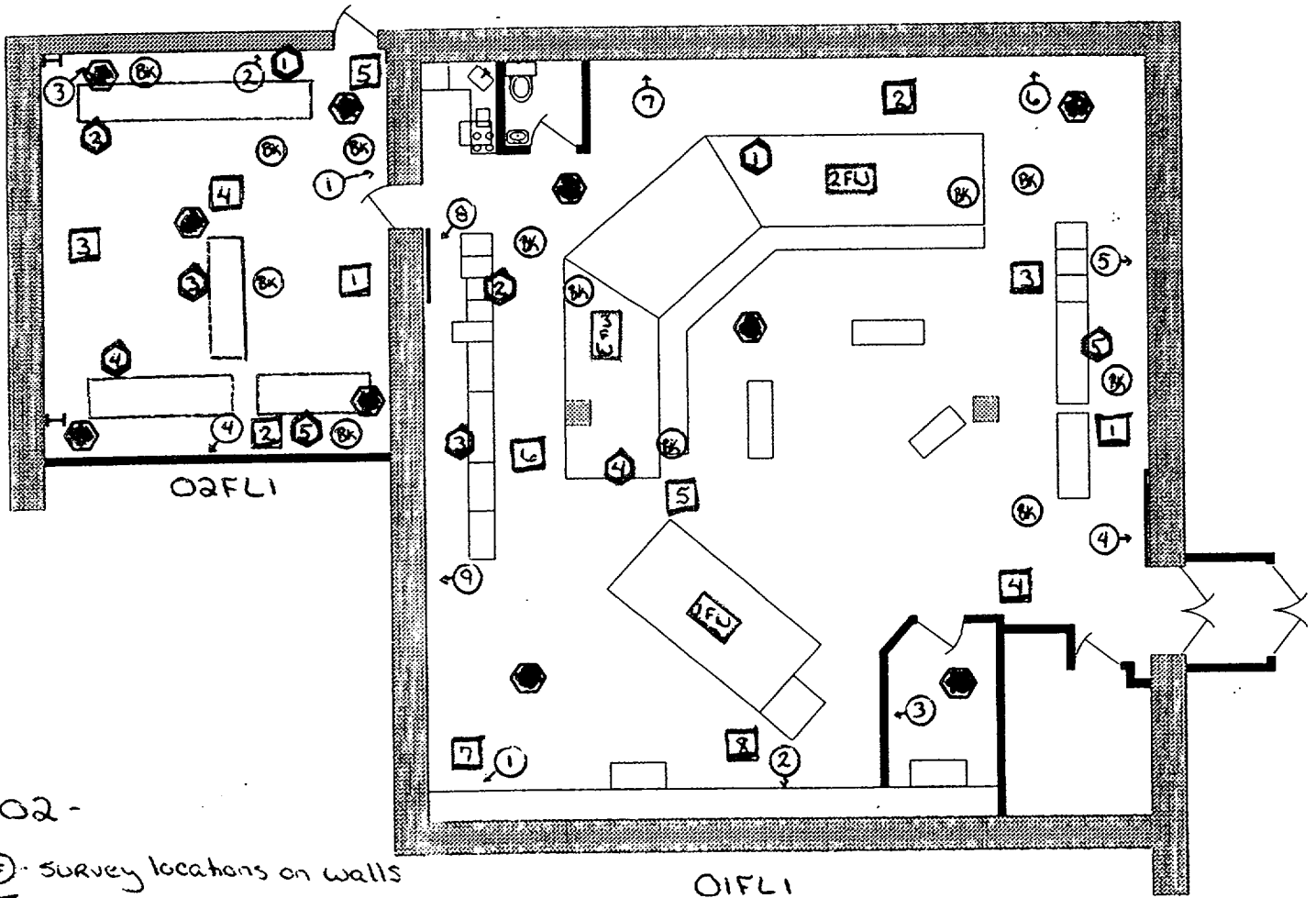
PACKAGE B0200 SURFACES & STRUCTURES
 Control Room - Elevation 21 ft.
 Including Computer Room and Cable Tunnels

UNIT(S)	SURFACE(S)
01 - Control Room	CL1 (Ceiling) EQ1 (Equipment: Installed Equipment, Ducts, Cable Trays, etc.) FL1 (Floor) WS1 (Walls)
02 - Computer Room	CL1 (Ceiling) EQ1 (Equipment: Installed Equipment, Ducts, Cable Trays, etc.) FL1 (Floor) WS1 (Walls)
03 - Cable Tunnels	FW1 (Floor and 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
	B0026	VINYL TILE (OVER CONCRETE)	0.0
	B0027	CARPET (OVER CONCRETE)	0.0
	B0031	METAL - BARE	0.0
	B0033	CEILING TILE - FIBERBOARD	0.0
	B0035	DRYWALL - PAINTED	0.0
	B0036	METAL - PAINTED	0.0
	B9999	OTHER	0.0

Service Building 21 ft - Computer and Control Room



B02 -

- ⊕ - survey locations on walls
- ⊠ - survey locations on floors
- ⊙ - survey locations on equipment
- △ - ~~survey locations on ceiling~~ *10/2-25-98*
- ⊗ - background locations
- ⌈ - survey locations for cable tunnels - 03FL1
- ⌋ - survey locations on ceiling





Maine Yankee Atomic Power Plant Site Characterization

03/24/98

Direct Measurements For Total Beta Activity

Survey Package : B0200 SURFACES & STRUCTURES
 Control Room - Elevation 21 ft.
 Including Computer Room and Cable Tunnels

RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	MDA	RESULT
245 (2)	01	CL1	B0033	C01	10	00001	605.9	<u>1,054.2</u>
245 (2)	01	CL1	B0033	C01	10	00002	605.9	<u>552.3</u>
245 (2)	01	CL1	B0033	C01	10	00003	605.9	<u>988.8</u>
245 (2)	01	CL1	B0033	C01	10	00004	605.9	<u>683.2</u>
245 (2)	01	CL1	B0033	C01	10	00005	605.9	<u>945.1</u>
242 (2)	01	EQ1	B0036	C01	10	00001	519.4	-218.9
242 (2)	01	EQ1	B0036	C01	10	00002	519.4	78.9
242 (2)	01	EQ1	B0036	C01	10	00003	519.4	-81.5
242 (2)	01	EQ1	B0036	C01	10	00004	519.4	147.6
242 (2)	01	EQ1	B0036	C01	10	00005	519.4	56.0
243 (2)	01	FL1	B0026	C01	10	00001	584.4	403.8
243 (2)	01	FL1	B0027	C01	10	00002	584.4	228.7
243 (2)	01	FL1	B0027	C01	10	00003	584.4	381.9
243 (2)	01	FL1	B0027	C01	10	00004	584.4	578.9
243 (2)	01	FL1	B0027	C01	10	00005	584.4	163.0
243 (2)	01	FL1	B0027	C01	10	00006	584.4	-12.2
243 (2)	01	FL1	B0027	C01	10	00007	584.4	535.2
243 (2)	01	FL1	B0027	C01	10	00008	584.4	316.2
242 (2)	01	WS1	B0001	C01	10	00005	519.4	-399.1
242 (2)	01	WS1	B0001	C01	10	00006	519.4	265.3
242 (2)	01	WS1	B0001	C01	10	00007	519.4	356.9
242 (2)	01	WS1	B0001	C01	10	00009	519.4	-147.1
242 (2)	01	WS1	B0035	C01	10	00003	519.4	124.7
242 (2)	01	WS1	B0036	C01	10	00001	519.4	56.0

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

03/24/98

Direct Measurements For Total Beta Activity

Survey Package : B0200 SURFACES & STRUCTURES
 Control Room - Elevation 21 ft.
 Including Computer Room and Cable Tunnels

RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	MDA	RESULT
242 (2)	01	WS1	B0036	C01	10	00002	519.4	78.9
242 (2)	01	WS1	B0036	C01	10	00004	519.4	-12.7
242 (2)	01	WS1	B0036	C01	10	00008	519.4	-58.5
245 (2)	02	CL1	B0033	C01	10	00001	605.9	552.3
245 (2)	02	CL1	B0033	C01	10	00002	605.9	<u>748.7</u>
245 (2)	02	CL1	B0033	C01	10	00003	605.9	<u>1,032.4</u>
245 (2)	02	CL1	B0033	C01	10	00004	605.9	<u>705.0</u>
245 (2)	02	CL1	B0033	C01	10	00005	605.9	<u>836.0</u>
243 (2)	02	EQ1	B0036	C01	10	00001	584.4	141.1
243 (2)	02	EQ1	B0036	C01	10	00002	584.4	-362.4
243 (2)	02	EQ1	B0036	C01	10	00003	584.4	-187.3
243 (2)	02	EQ1	B0036	C01	10	00004	584.4	-55.9
243 (2)	02	EQ1	B0036	C01	10	00005	584.4	-296.8
266 (2)	02	FL1	B0026	C01	10	00005	615.6	163.5
245 (2)	02	FL1	B0031	C01	10	00002	605.9	290.4
245 (2)	02	FL1	B9999	C01	10	00001	605.9	-167.9
245 (2)	02	FL1	B9999	C01	10	00003	605.9	115.8
245 (2)	02	FL1	B9999	C01	10	00004	605.9	355.9
242 (2)	02	WS1	B0001	C01	10	00001	519.4	-192.9
242 (2)	02	WS1	B0001	C01	10	00002	519.4	-422.0
242 (2)	02	WS1	B0001	C01	10	00003	519.4	-170.0
242 (2)	02	WS1	B0003	C01	10	00004	519.4	196.5
243 (2)	03	FW1	B0026	C01	10	00001	584.4	75.4
243 (2)	03	FW1	B0026	C01	10	00002	584.4	184.9
243 (2)	03	FW1	B0026	C01	10	00003	584.4	-34.1

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.
 49 results are listed.



Maine Yankee Atomic Power Plant Site Characterization

DOWNLOAD FILE & SURVEY INSTRUMENTATION CALIBRATION SUMMARY

03/24/98

Direct Measurements For Total Beta Activity

Survey Package : B0200 SURFACES & STRUCTURES
 Control Room - Elevation 21 ft.
 Including Computer Room and Cable Tunnels

SURVEY DATE	FILE #	M2350		DETECTOR			PRE EFF	TECHNICIAN
		INST S/N	CAL DUE	MODEL	S/N	CAL DUE		
12/31/97	242 (2)	98620	3/20/98	43-106	128919	3/20/98	.21	DRK2986
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
12/31/97	243 (2)	126201	4/15/98	43-106	133858	5/3/98	.22	BSM0490
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
12/31/97	245 (2)	126170	6/10/98	43-106	133878	6/8/98	.22	MBK5187
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
1/2/98	266 (2)	126170	6/10/98	43-106	133878	6/8/98	.21	MBK5187
CALIBRATION DATES VERIFIED AS ACCEPTABLE								



Maine Yankee Atomic Power Plant Site Characterization

03/24/98

Removable Contamination - Gross Beta Activity

Survey Package B0200 SURFACES & STRUCTURES
Control Room - Elevation 21 ft.
Including Computer Room and Cable Tunnels

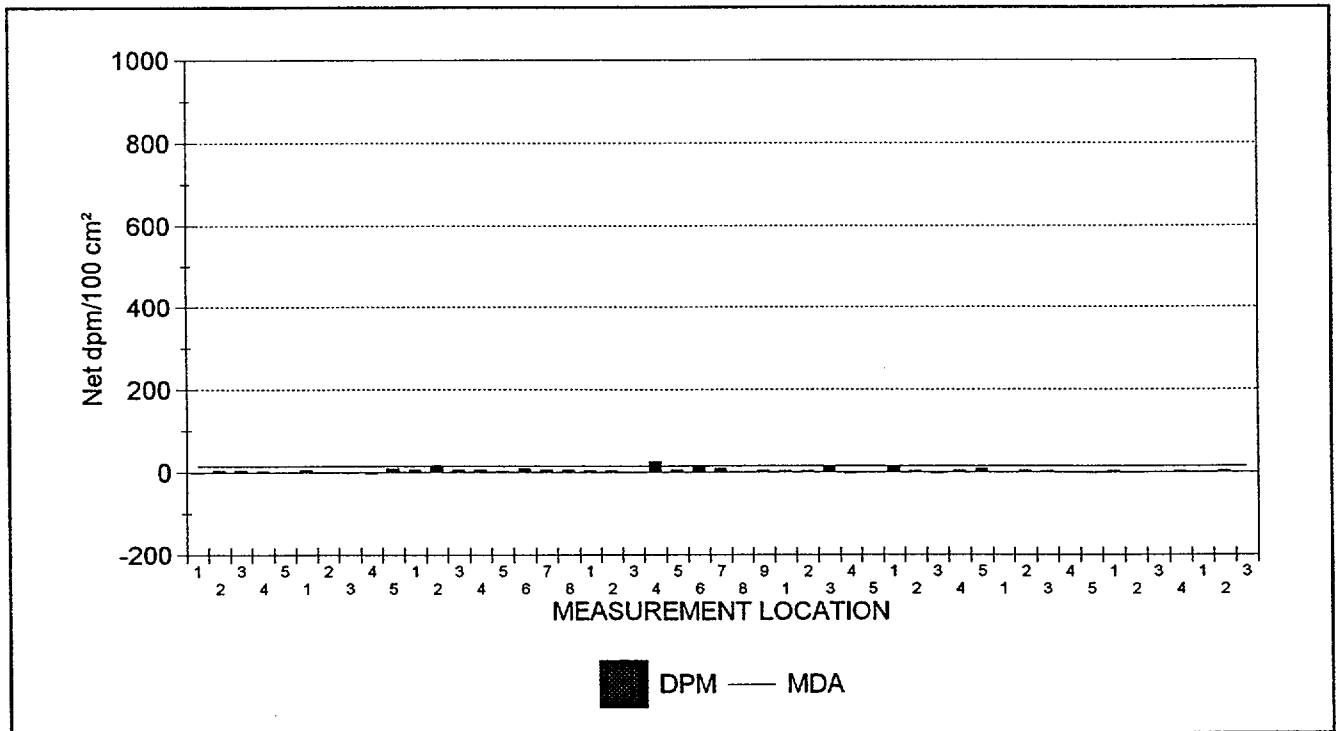
STATISTICAL SUMMARY

TESTS PERFORMED

	Net dpm/100 cm ²
Mean	4.1
Maximum	25.8
Minimum	-2.8
Standard Deviation	5.4
MDA	15.5

Samples reported satisfy samples prescribed	YES
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	49
Samples Prescribed	49



49 RESULTS ARE GRAPHED



Maine Yankee Atomic Power Plant Site Characterization

03/24/98

Removable Contamination - Gross Alpha Activity

Survey Package B0200 SURFACES & STRUCTURES
Control Room - Elevation 21 ft.
Including Computer Room and Cable Tunnels

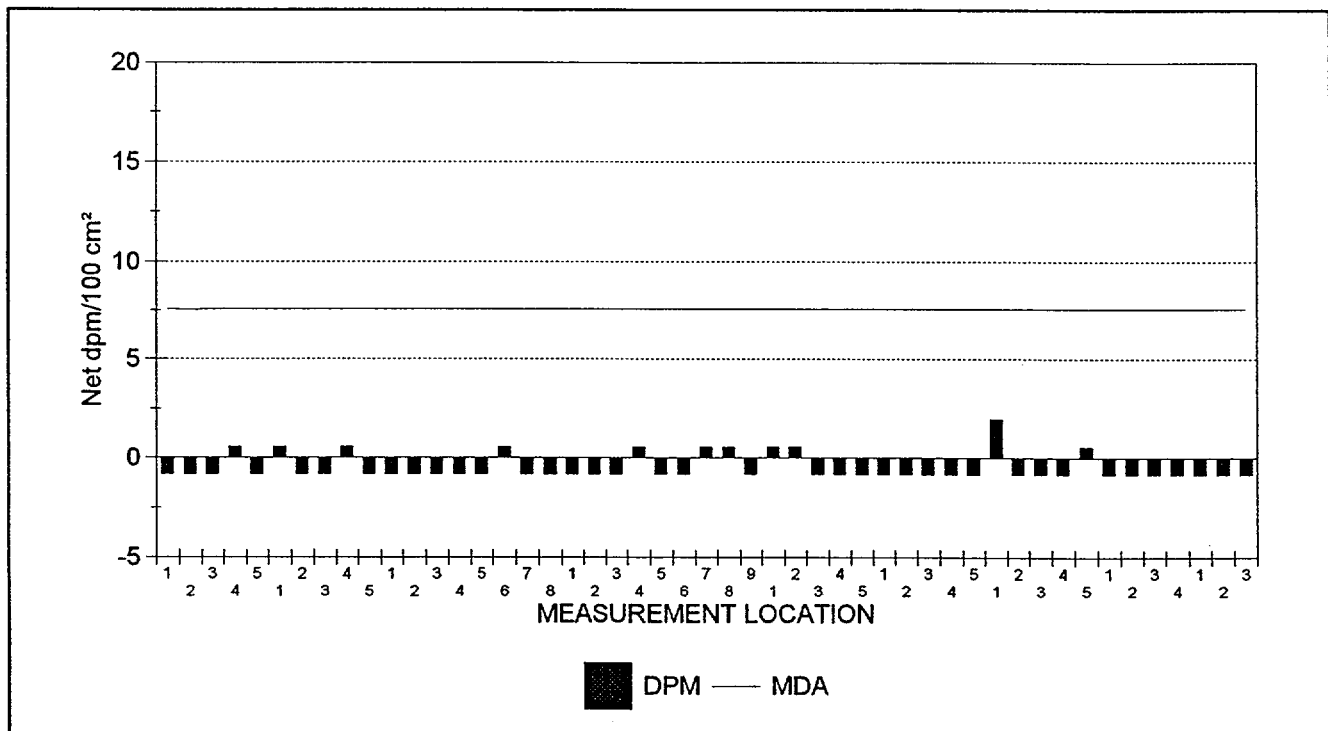
STATISTICAL SUMMARY

TESTS PERFORMED

	Net dpm/100 cm ²
Mean	-0.5
Maximum	2.0
Minimum	-0.9
Standard Deviation	0.7
MDA	7.6

Samples reported satisfy samples prescribed	YES
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	49
Samples Prescribed	49



49 RESULTS ARE GRAPHED



Maine Yankee Atomic Power Plant Site Characterization

03/24/98

Removable Contamination

Survey Package : B0200 SURFACES & STRUCTURES
 Control Room - Elevation 21 ft.
 Including Computer Room and Cable Tunnels

RESULTS LISTING - SORTED BY SURFACE CODE

XLS FILE	UNIT	SURFACE	REASON	COUNT	MSRMNT	ALPHA	BETA
				TIME	LOCATION		
SME1B024.XLS	03	FW1	C01	2	3	-0.8	0.6
SME1B024.XLS	03	FW1	C01	2	2	-0.8	3.9
SME1B024.XLS	03	FW1	C01	2	1	-0.8	0.6
SME1B024.XLS	02	WS1	C01	2	4	-0.8	2.2
SME1B024.XLS	02	WS1	C01	2	3	-0.8	0.6
SME1B024.XLS	02	WS1	C01	2	2	-0.8	0.6
SME1B024.XLS	02	WS1	C01	2	1	-0.8	2.2
SME1B024.XLS	02	FL1	C01	2	5	0.6	-1.1
SME1B024.XLS	02	FL1	C01	2	4	-0.8	0.6
SME1B024.XLS	02	FL1	C01	2	3	-0.8	2.2
SME1B024.XLS	02	FL1	C01	2	2	-0.8	3.9
SME1B024.XLS	02	FL1	C01	2	1	2.0	0.6
SME1B024.XLS	02	EQ1	C01	2	5	-0.8	9.0
SME1B024.XLS	02	EQ1	C01	2	4	-0.8	3.9
SME1B024.XLS	02	EQ1	C01	2	3	-0.8	-2.8
SME1B024.XLS	02	EQ1	C01	2	2	-0.8	2.2
SME1B024.XLS	02	EQ1	C01	2	1	-0.8	12.3
SME1B024.XLS	02	CL1	C01	2	5	-0.8	0.6
SME1B024.XLS	02	CL1	C01	2	4	-0.8	-2.8
SME1B024.XLS	02	CL1	C01	2	3	-0.8	12.3
SME1B024.XLS	02	CL1	C01	2	2	0.6	2.2
SME1B024.XLS	02	CL1	C01	2	1	0.6	2.2
SME1B024.XLS	01	WS1	C01	2	9	-0.8	3.9
SME1B024.XLS	01	WS1	C01	2	8	0.6	0.6

REMAINING RESULTS PRINTED ON NEXT PAGE

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

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

03/24/98

Removable Contamination

Survey Package: B0200 SURFACES & STRUCTURES
Control Room - Elevation 21 ft.
Including Computer Room and Cable Tunnels

RESULTS LISTING - SORTED BY SURFACE CODE

XLS FILE	UNIT	SURFACE	REASON	COUNT	MSRMNT	ALPHA	BETA
				TIME	LOCATION		
SME1B024.XLS	01	WS1	C01	2	7	0.6	9.0
SME1B024.XLS	01	WS1	C01	2	6	-0.8	15.7
SME1B024.XLS	01	WS1	C01	2	5	-0.8	5.6
SME1B024.XLS	01	WS1	C01	2	4	0.6	25.8
SME1B024.XLS	01	WS1	C01	2	3	-0.8	0.6
SME1B024.XLS	01	WS1	C01	2	2	-0.8	3.9
SME1B024.XLS	01	WS1	C01	2	1	-0.8	3.9
SME1B024.XLS	01	FL1	C01	2	8	-0.8	5.6
SME1B024.XLS	01	FL1	C01	2	7	-0.8	5.6
SME1B024.XLS	01	FL1	C01	2	6	0.6	9.0
SME1B024.XLS	01	FL1	C01	2	5	-0.8	2.2
SME1B024.XLS	01	FL1	C01	2	4	-0.8	5.6
SME1B024.XLS	01	FL1	C01	2	3	-0.8	5.6
SME1B024.XLS	01	FL1	C01	2	2	-0.8	15.7
SME1B024.XLS	01	FL1	C01	2	1	-0.8	5.6
SME1B024.XLS	01	EQ1	C01	2	5	-0.8	9.0
SME1B024.XLS	01	EQ1	C01	2	4	0.6	-2.8
SME1B024.XLS	01	EQ1	C01	2	3	-0.8	-1.1
SME1B024.XLS	01	EQ1	C01	2	2	-0.8	0.6
SME1B024.XLS	01	EQ1	C01	2	1	0.6	5.6
SME1B024.XLS	01	CL1	C01	2	5	-0.8	0.6
SME1B024.XLS	01	CL1	C01	2	4	0.6	2.2
SME1B024.XLS	01	CL1	C01	2	3	-0.8	3.9
SME1B024.XLS	01	CL1	C01	2	2	-0.8	3.9
SME1B024.XLS	01	CL1	C01	2	1	-0.8	-1.1

NOTES: Activity reported in net dpm/100 cm². Count times are reported in minutes.
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).
49 results are listed.



Maine Yankee Atomic Power Plant Site Characterization

DATAFILE & TENNELEC CALIBRATION SUMMARY

03/24/98

Removable Contamination

Survey Package : B0200 SURFACES & STRUCTURES
Control Room - Elevation 21 ft.
Including Computer Room and Cable Tunnels

SURVEYDATE	XLS FILE	INST ID	S/N	CAL DUE	LAB TECHNICIAN
2/9/98	SME1B024.XLS	1	14131	8/7/98	RWD

CALIBRATION DATE VERIFIED AS ACCEPTABLE



Maine Yankee Atomic Power Plant Site Characterization

03/24/98

Gamma Exposure Rate Measurements At 1 Meter

Survey Package B0200 SURFACES & STRUCTURES
 Control Room - Elevation 21 ft.
 Including Computer Room and Cable Tunnels

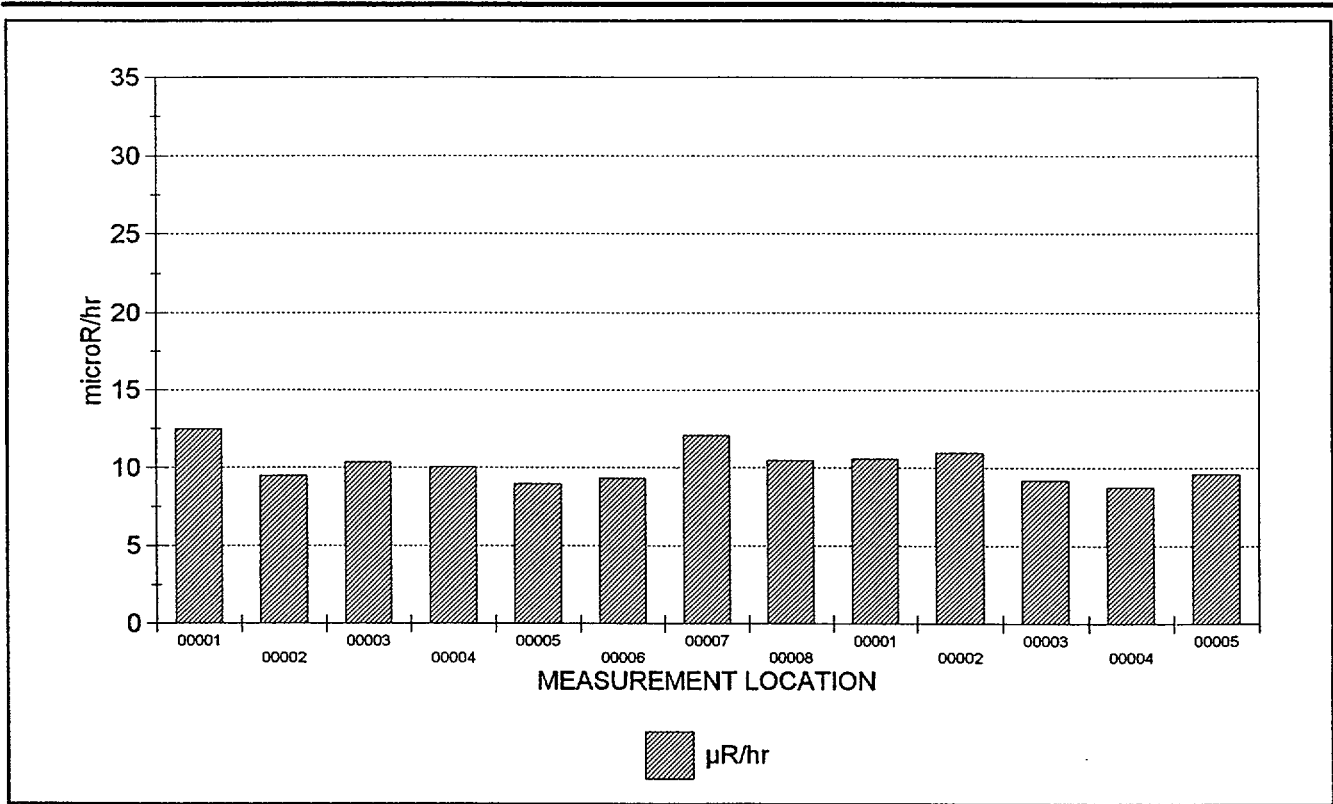
STATISTICAL SUMMARY

TESTS PERFORMED

	$\mu\text{R/hr}$
Mean	10.2
Maximum	12.5
Minimum	8.8
Standard Deviation	1.1

Samples reported satisfy samples prescribed YES

Samples Reported	13
Samples Prescribed	13



13 RESULTS ARE GRAPHED



Maine Yankee Atomic Power Plant Site Characterization

03/24/98

Gamma Exposure Rate Measurements At 1 Meter

Survey Package : B0200 SURFACES & STRUCTURES
 Control Room - Elevation 21 ft.
 Including Computer Room and Cable Tunnels

RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	RESULT
252 (2)	01	FL1	B0027	C01	60.00	00001	12.5
252 (2)	01	FL1	B0027	C01	60.00	00002	9.5
252 (2)	01	FL1	B0027	C01	60.00	00003	10.3
252 (2)	01	FL1	B0027	C01	60.00	00004	10.0
252 (2)	01	FL1	B0027	C01	60.00	00005	9.0
252 (2)	01	FL1	B0027	C01	60.00	00006	9.3
252 (2)	01	FL1	B0027	C01	60.00	00007	12.1
252 (2)	01	FL1	B0027	C01	60.00	00008	10.4
252 (2)	02	FL1	B9999	C01	60.00	00001	10.6
252 (2)	02	FL1	B9999	C01	60.00	00002	11.0
252 (2)	02	FL1	B9999	C01	60.00	00003	9.2
252 (2)	02	FL1	B9999	C01	60.00	00004	8.7
252 (2)	02	FL1	B9999	C01	60.00	00005	9.6

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



Maine Yankee Atomic Power Plant Site Characterization

DOWNLOAD FILE & SURVEY INSTRUMENTATION CALIBRATION SUMMARY

03/24/98

Gamma Exposure Rate Measurements At 1 Meter

 Survey Package : B0200 SURFACES & STRUCTURES

Control Room - Elevation 21 ft.

Including Computer Room and Cable Tunnels

SURVEY		M2350		DETECTOR			TECHNICIAN
DATE	FILE #	INST S/N	CAL DUE	MODEL	S/N	CAL DUE	
1/1/98	252 (2)	126170	6/10/98	44-2	092400	6/11/98	MBK5187

CALIBRATION DATES VERIFIED AS ACCEPTABLE



Maine Yankee Atomic Power Plant Site Characterization

04/01/98

CHARACTERIZATION SUMMARY

SURVEY PACKAGE NUMBER :B0300

SURFACES & STRUCTURES

PACKAGE DESCRIPTION

MCC Rooms / Battery Room - Elevation 62 ft.

Includes Lower Battery Room, Upper Battery Room, Secured MCC Room and Unsecured MCC Room

SURVEY AREA DESCRIPTION

MCC Rooms/Battery Room

GENERAL HISTORICAL INFORMATION (Operational history, etc.)

The Battery Room is a two-level room off the Turbine Building 39' el. Each room is 5 meters by 16 meters with concrete floors and concrete block walls and ceilings. Floor is coated with painted epoxy. Motor control rooms are concrete block walls and epoxied, painted concrete floors. Rooms contain batteries and control room switchgear.

SUMMARY OF CHARACTERIZATION ACTIVITIES

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

Performed a scan of approximately five square meters at 45 survey measurement locations indicated on the survey map(s). This was approximately 10% of the accessible surface area.

Collected direct measurements for total beta activity at 45 survey measurement locations at the highest location identified in the scan. If an elevated location was not observed, the measurement was collected at an arbitrary location, selected by the technician, within the five square meter scanned area.

Collected smear samples to analyze for removable alpha and beta activity at the same 45 survey locations of direct measurements for total beta activity.

Collected one meter gamma exposure rate measurements at 11 survey locations for direct measurements for total beta activity on floor surfaces.

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

CHARACTERIZATION SURVEY RESULTS

- o There were no direct measurements for total beta activity above MDA (701.3 dpm/100cm²).
- o There were no measurements for removable beta activity above MDA (17.3 dpm/100cm²).
- o There were no measurements for removable alpha activity above MDA (7.3 dpm/100cm²).
- o The average and maximum one meter exposure rate measurement results were 12.2 µR/hr and 14.9 µR/hr respectively.

REFERENCES (Documents, Interviews)



Maine Yankee Atomic Power Plant Site Characterization

SUMMARY OF SURVEY UNIT(S)

03/24/98

OUTPUT BATCH SN = 221

PACKAGE B0300 SURFACES & STRUCTURES

MCC Rooms / Battery Room - Elevation 62 ft.

Includes Lower Battery Room, Upper Battery Room, Secured MCC Room and Unsecured MCC Room

UNIT(S)	SURFACE(S)
01 - Lower Battery Room - 39'	CL1 (Ceiling) EQ1 (Equipment) FL1 (Floor) WS1 (Walls)
02 - Upper Battery Room - 46'	CL1 (Ceiling) EQ1 (Equipment) FL1 (Floor) WS1 (Walls)
03 - Secured Motor Control Room - 46'	CL1 (Ceiling) EQ1 (Equipment) FL1 (Floor) WS1 (Walls)
04 - Unsecured Motor Control Room - 46'	CL1 (Ceiling) EQ1 (Equipment) FL1 (Floor) WS1 (Walls)

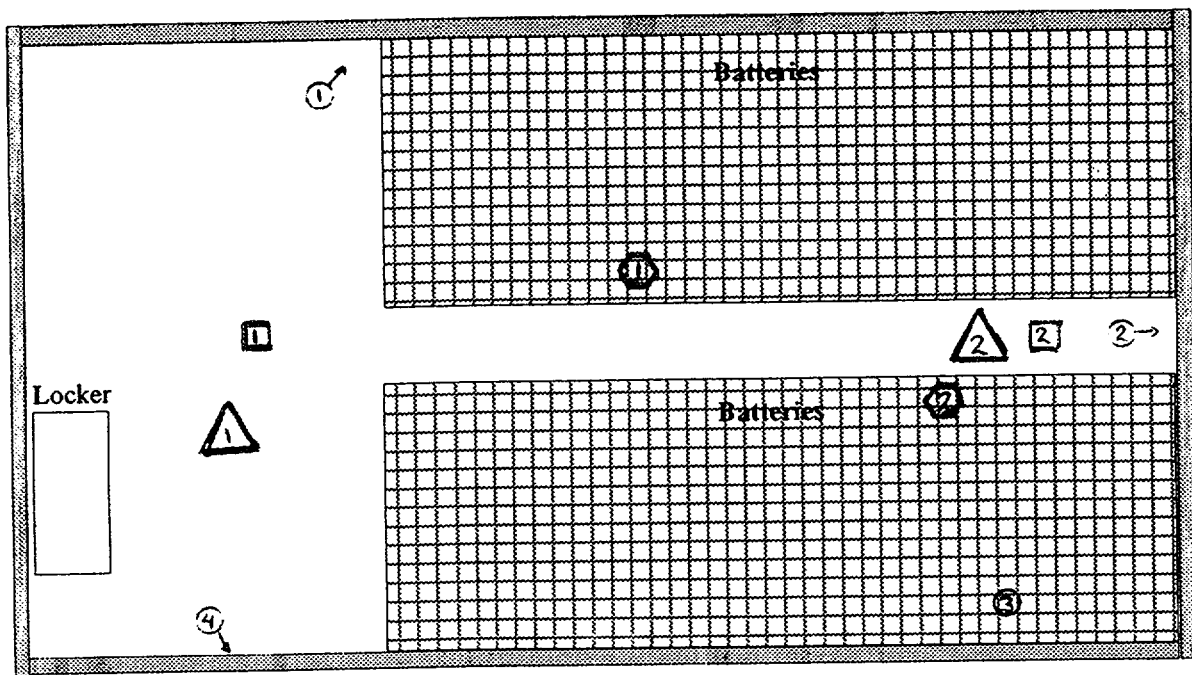
REASON(S) CHARACTERIZATION SURVEY (C01)

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 B0300

Lower Battery Room (Turbine Bldg 39')



B03-

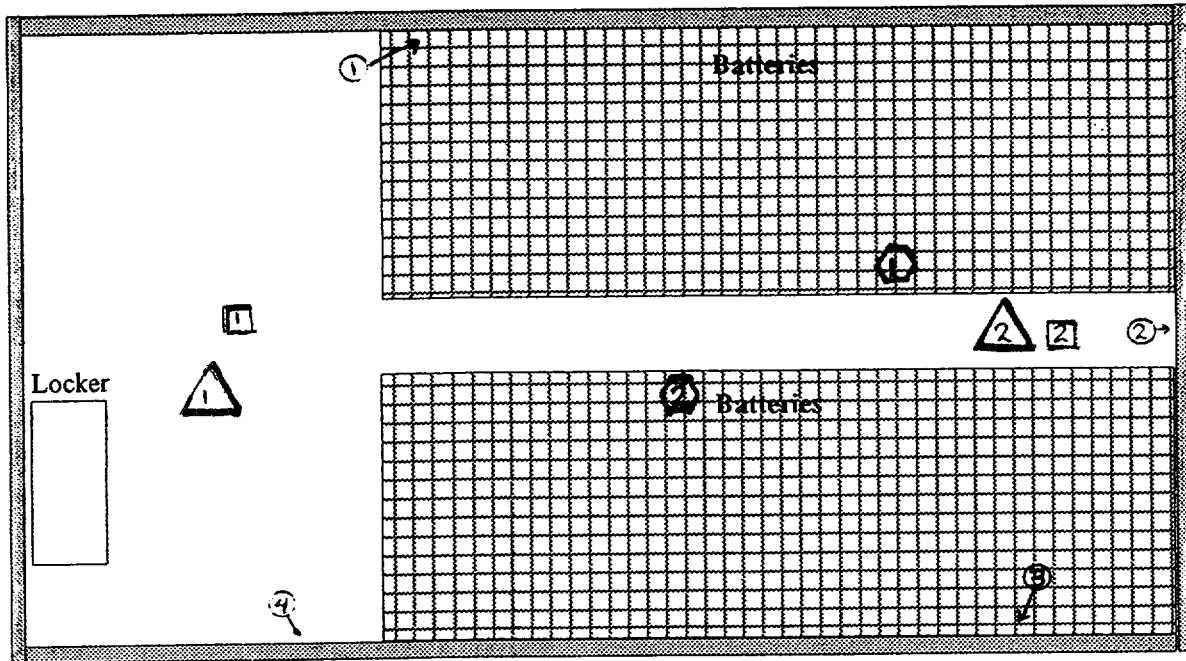
- ⊕ - Survey locations on walls - air/si
- ⊞ - Survey locations on floors - air/fl
- ⊞ - Survey locations on equipment - air/e
- ⊕ - Survey locations on ceilings - air/c
- ① - Survey Unit



Maine Yankee Atomic Power Plant Site Characterization

SURVEY PACKAGE B0300

Upper Battery Room
(Turbine Bldg 39) 46'
REL 1
3-8-78



B03-

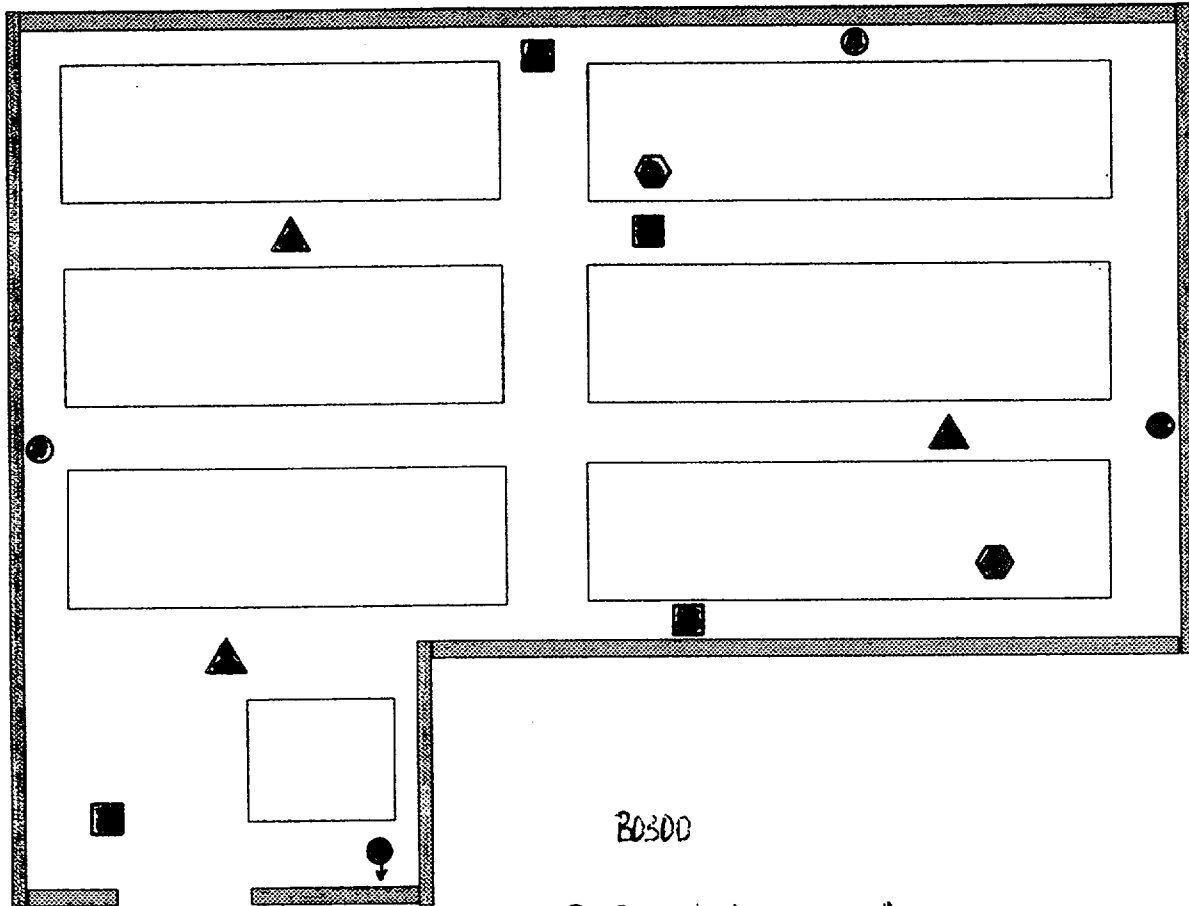
- ⊕ - Survey locations on walls - 02WS1
- ⊞ - Survey locations on floors - 02FL1
- ⊛ - Survey locations on equipment - 02EQ1
- ⊠ - Survey locations on ceilings - 02CE1
- 02 - Survey Unit



Maine Yankee Atomic Power Plant Site Characterization

SURVEY PACKAGE B0300

**Secured MCC Room
(Turbine Bldg 46')**



B0300

- - Survey locations on walls - 03WS1
- - Survey locations on Floor - 03FL1
- ⬡ - Survey locations on Equipment - 03EQ1
- ▲ - Survey locations on ceilings - 03CL1



Maine Yankee Atomic Power Plant Site Characterization

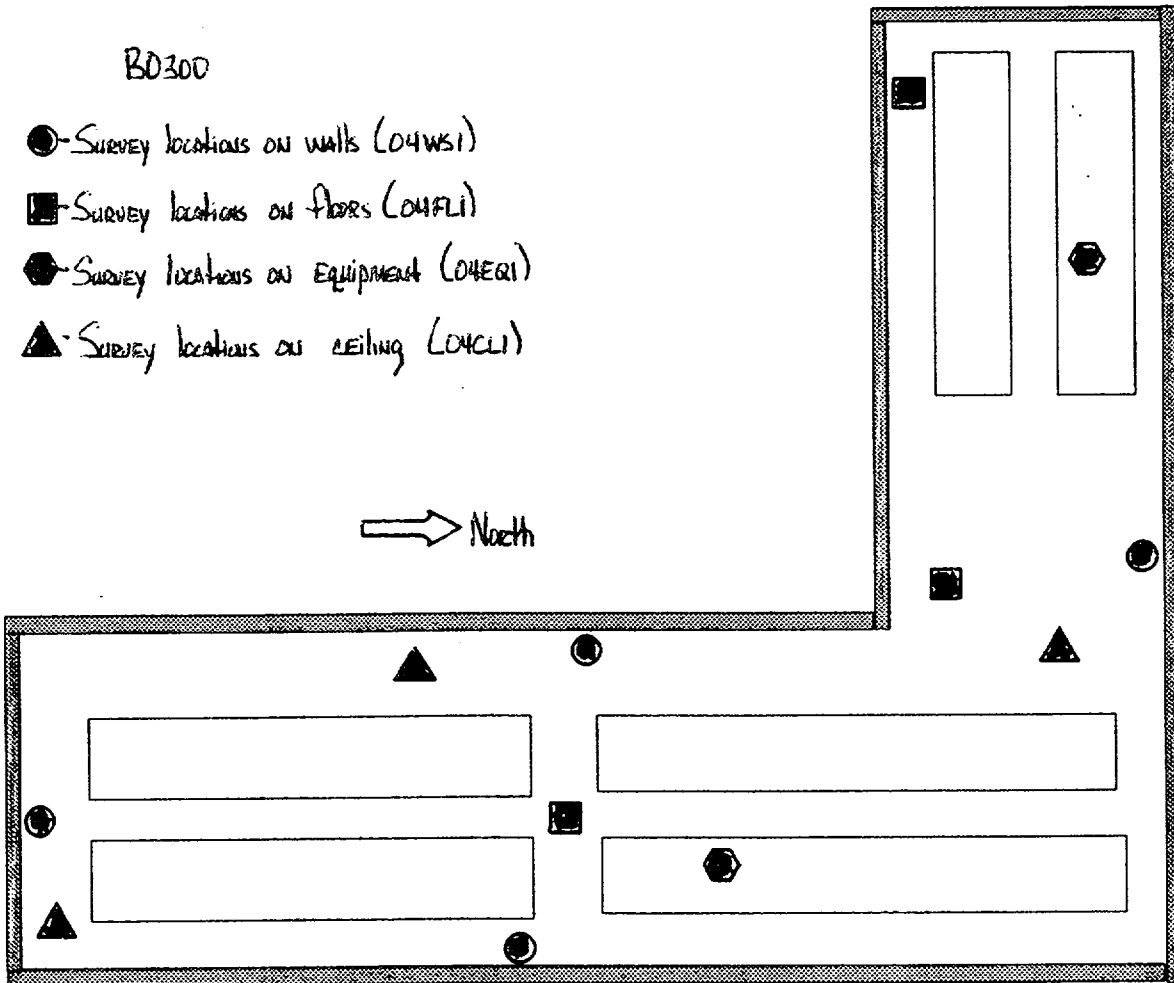
SURVEY PACKAGE B0300

Unsecured MCC Room (Turbine Bldg 46')

B0300

- Survey locations on walls (04WS1)
- Survey locations on floors (04FL1)
- ⊙ Survey locations on equipment (04EQ1)
- ▲ Survey locations on ceiling (04CL1)

→ North





Maine Yankee Atomic Power Plant Site Characterization

03/24/98

Direct Measurements For Total Beta Activity

Survey Package B0300 SURFACES & STRUCTURES
 MCC Rooms / Battery Room - Elevation 62 ft.
 Includes Lower Battery Room, Upper Battery Room, Secured MCC Room
 and Unsecured MCC Room

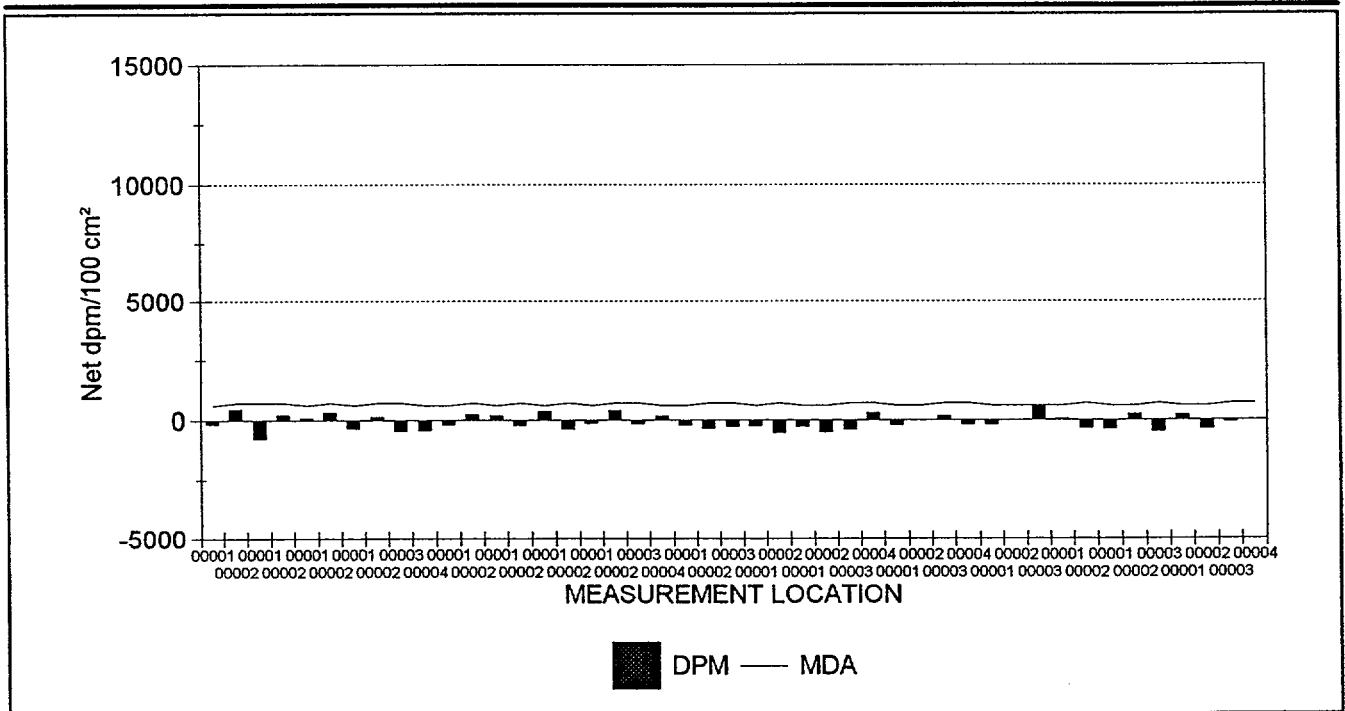
STATISTICAL SUMMARY

TESTS PERFORMED

	Net dpm/100 cm ²
Mean	-91.0
Maximum	552.5
Minimum	-778.2
Standard Deviation	299.7
MDA	701.3

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	0

Samples Reported	45
Samples Prescribed	45



45 RESULTS ARE GRAPHED



Maine Yankee Atomic Power Plant Site Characterization

03/24/98

Direct Measurements For Total Beta Activity

Survey Package : B0300 SURFACES & STRUCTURES

MCC Rooms / Battery Room - Elevation 62 ft.

Includes Lower Battery Room, Upper Battery Room, Secured MCC Room and Unsecured MCC Room

RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	MDA	RESULT
342 (2)	01	CL1	B0001	C01	10	00001	601.9	-162.5
341 (2)	01	CL1	B0001	C01	10	00002	701.3	438.9
341 (2)	01	EQ1	B0036	C01	10	00001	701.3	-778.2
341 (2)	01	EQ1	B0036	C01	10	00002	701.3	210.6
342 (2)	01	FL1	B0001	C01	10	00001	601.9	74.5
341 (2)	01	FL1	B0001	C01	10	00002	701.3	321.1
342 (2)	01	WS1	B0001	C01	10	00001	601.9	-334.9
341 (2)	01	WS1	B0001	C01	10	00002	701.3	132.8
341 (2)	01	WS1	B0001	C01	10	00003	701.3	-432.2
342 (2)	01	WS1	B0001	C01	10	00004	601.9	-421.1
342 (2)	02	CL1	B0001	C01	10	00001	601.9	-184.1
341 (2)	02	CL1	B0001	C01	10	00002	701.3	227.0
342 (2)	02	EQ1	B0036	C01	10	00001	601.9	186.2
341 (2)	02	EQ1	B0036	C01	10	00002	701.3	-213.2
342 (2)	02	FL1	B0001	C01	10	00001	601.9	354.7
341 (2)	02	FL1	B0001	C01	10	00002	701.3	-361.6
342 (2)	02	WS1	B0001	C01	10	00001	601.9	-141.0
341 (2)	02	WS1	B0001	C01	10	00002	701.3	391.8
341 (2)	02	WS1	B0001	C01	10	00003	701.3	-149.7
342 (2)	02	WS1	B0001	C01	10	00004	601.9	160.7
342 (2)	03	CL1	B0001	C01	10	00001	601.9	-205.6
341 (2)	03	CL1	B0001	C01	10	00002	701.3	-338.1

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

03/24/98

Direct Measurements For Total Beta Activity

Survey Package : B0300 SURFACES & STRUCTURES

MCC Rooms / Battery Room - Elevation 62 ft.

Includes Lower Battery Room, Upper Battery Room, Secured MCC Room an Unsecured MCC Room

RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	MDA	RESULT
341 (2)	03	CL1	B0001	C01	10	00003	701.3	-267.4
342 (2)	03	EQ1	B0036	C01	10	00001	601.9	-244.8
341 (2)	03	EQ1	B0036	C01	10	00002	701.3	-519.2
342 (2)	03	FL1	B0001	C01	10	00001	601.9	-248.7
342 (2)	03	FL1	B0001	C01	10	00002	601.9	-507.3
341 (2)	03	FL1	B0001	C01	10	00003	701.3	-385.1
341 (2)	03	FL1	B0001	C01	10	00004	701.3	274.1
342 (2)	03	WS1	B0001	C01	10	00001	601.9	-205.6
342 (2)	03	WS1	B0001	C01	10	00002	601.9	-11.7
341 (2)	03	WS1	B0001	C01	10	00003	701.3	156.3
341 (2)	03	WS1	B0001	C01	10	00004	701.3	-173.3
342 (2)	04	CL1	B0031	C01	10	00001	601.9	-180.2
342 (2)	04	CL1	B0031	C01	10	00002	601.9	-7.8
342 (2)	04	CL1	B0031	C01	10	00003	601.9	552.5
342 (2)	04	EQ1	B0036	C01	10	00001	601.9	56.9
341 (2)	04	EQ1	B0036	C01	10	00002	701.3	-330.9
342 (2)	04	FL1	B0001	C01	10	00001	601.9	-356.5
342 (2)	04	FL1	B0001	C01	10	00002	601.9	225.4
341 (2)	04	FL1	B0001	C01	10	00003	701.3	-455.8
342 (2)	04	WS1	B0001	C01	10	00001	601.9	203.8
342 (2)	04	WS1	B0001	C01	10	00002	601.9	-356.5
341 (2)	04	WS1	B0003	C01	10	00003	701.3	-79.1
341 (2)	04	WS1	B0003	C01	10	00004	701.3	-8.5

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.
 45 results are listed.



Maine Yankee Atomic Power Plant Site Characterization

DOWNLOAD FILE & SURVEY INSTRUMENTATION CALIBRATION SUMMARY

03/24/98

Direct Measurements For Total Beta Activity

Survey Package : B0300 SURFACES & STRUCTURES
 MCC Rooms / Battery Room - Elevation 62 ft.
 Includes Lower Battery Room, Upper Battery Room, Secured MCC Room an
 Unsecured MCC Room

SURVEY DATE	FILE #	M2350		DETECTOR			PRE EFF	TECHNICIAN
		INST S/N	CAL DUE	MODEL	S/N	CAL DUE		
1/9/98	341 (2)	098639	4/16/98	43-106	133876	4/30/98	.20	JJP1813
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
1/9/98	342 (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

03/24/98

Removable Contamination - Gross Beta Activity

Survey Package B0300 SURFACES & STRUCTURES
 MCC Rooms / Battery Room - Elevation 62 ft.
 Includes Lower Battery Room, Upper Battery Room, Secured MCC Room
 and Unsecured MCC Room

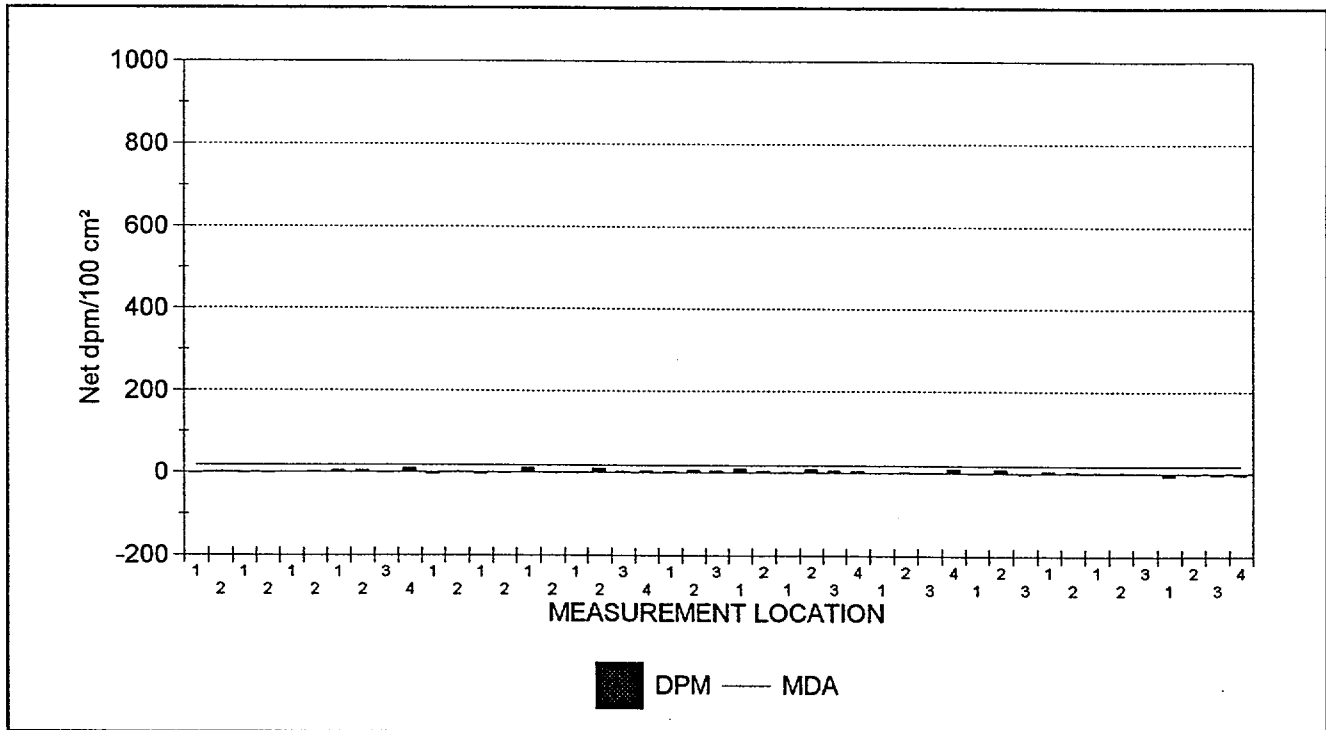
STATISTICAL SUMMARY

TESTS PERFORMED

	Net dpm/100 cm ²
Mean	1.9
Maximum	11.7
Minimum	-6.8
Standard Deviation	4.8
MDA	17.3

Samples reported satisfy samples prescribed	YES
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	45
Samples Prescribed	45



45 RESULTS ARE GRAPHED



Maine Yankee Atomic Power Plant Site Characterization

03/24/98

Removable Contamination - Gross Alpha Activity

Survey Package B0300 SURFACES & STRUCTURES
 MCC Rooms / Battery Room - Elevation 62 ft.
 Includes Lower Battery Room, Upper Battery Room, Secured MCC Room
 and Unsecured MCC Room

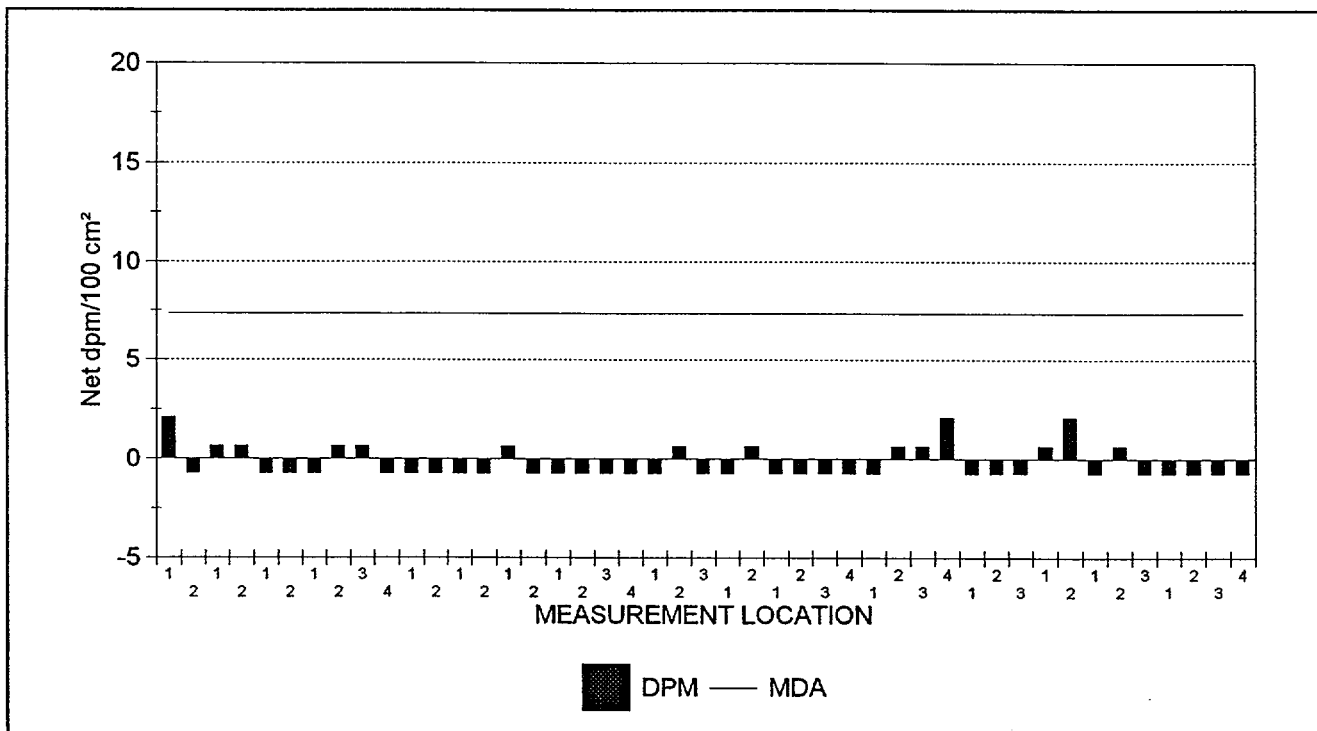
STATISTICAL SUMMARY

TESTS PERFORMED

	Net dpm/100 cm ²
Mean	-0.2
Maximum	2.1
Minimum	-0.8
Standard Deviation	0.9
MDA	7.3

Samples reported satisfy samples prescribed	YES
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	45
Samples Prescribed	45



45 RESULTS ARE GRAPHED



Maine Yankee Atomic Power Plant Site Characterization

03/24/98

Removable Contamination

Survey Package : B0300 SURFACES & STRUCTURES

MCC Rooms / Battery Room - Elevation 62 ft.

Includes Lower Battery Room, Upper Battery Room, Secured MCC Room and Unsecured MCC Room

RESULTS LISTING - SORTED BY SURFACE CODE

XLS FILE	UNIT	SURFACE	REASON	COUNT TIME	MSRMNT LOCATION	ALPHA	BETA
SME1B026.XLS	04	WS1	C01	2	4	-0.8	-5.2
SME1B026.XLS	04	WS1	C01	2	3	-0.8	-5.2
SME1B026.XLS	04	WS1	C01	2	2	-0.8	-3.5
SME1B026.XLS	04	WS1	C01	2	1	-0.8	-6.8
SME1B026.XLS	04	FL1	C01	2	3	-0.8	1.6
SME1B026.XLS	04	FL1	C01	2	2	0.7	1.6
SME1B026.XLS	04	FL1	C01	2	1	-0.8	1.6
SME1B026.XLS	04	EQ1	C01	2	2	2.1	3.3
SME1B026.XLS	04	EQ1	C01	2	1	0.7	4.9
SME1B026.XLS	04	CL1	C01	2	3	-0.8	-3.5
SME1B026.XLS	04	CL1	C01	2	2	-0.8	8.3
SME1B026.XLS	04	CL1	C01	2	1	-0.8	-1.8
SME1B026.XLS	03	WS1	C01	2	4	2.1	10.0
SME1B026.XLS	03	WS1	C01	2	3	0.7	-0.1
SME1B026.XLS	03	WS1	C01	2	2	0.7	1.6
SME1B026.XLS	03	WS1	C01	2	1	-0.8	-0.1
SME1B026.XLS	03	FL1	C01	2	4	-0.8	4.9
SME1B026.XLS	03	FL1	C01	2	3	-0.8	6.6
SME1B026.XLS	03	FL1	C01	2	2	-0.8	8.3
SME1B026.XLS	03	FL1	C01	2	1	-0.8	1.6
SME1B026.XLS	03	EQ1	C01	2	2	0.7	4.9
SME1B026.XLS	03	EQ1	C01	2	1	-0.8	10.0

REMAINING RESULTS PRINTED ON NEXT PAGE

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

03/24/98

Removable Contamination

Survey Package: B0300 SURFACES & STRUCTURES

MCC Rooms / Battery Room - Elevation 62 ft.

Includes Lower Battery Room, Upper Battery Room, Secured MCC Room and Unsecured MCC Room

RESULTS LISTING - SORTED BY SURFACE CODE

XLS FILE	UNIT	SURFACE	REASON	COUNT	MSRMNT	ALPHA	BETA
				TIME	LOCATION		
SME1B026.XLS	03	CL1	C01	2	3	-0.8	4.9
SME1B026.XLS	03	CL1	C01	2	2	0.7	6.6
SME1B026.XLS	03	CL1	C01	2	1	-0.8	3.3
SME1B026.XLS	02	WS1	C01	2	4	-0.8	4.9
SME1B026.XLS	02	WS1	C01	2	3	-0.8	3.3
SME1B026.XLS	02	WS1	C01	2	2	-0.8	10.0
SME1B026.XLS	02	WS1	C01	2	1	-0.8	-1.8
SME1B026.XLS	02	FL1	C01	2	2	-0.8	-1.8
SME1B026.XLS	02	FL1	C01	2	1	0.7	11.7
SME1B026.XLS	02	EQ1	C01	2	2	-0.8	-1.8
SME1B026.XLS	02	EQ1	C01	2	1	-0.8	-5.2
SME1B026.XLS	02	CL1	C01	2	2	-0.8	1.6
SME1B026.XLS	02	CL1	C01	2	1	-0.8	-5.2
SME1B026.XLS	01	WS1	C01	2	4	-0.8	10.0
SME1B026.XLS	01	WS1	C01	2	3	0.7	-1.8
SME1B026.XLS	01	WS1	C01	2	2	0.7	4.9
SME1B026.XLS	01	WS1	C01	2	1	-0.8	4.9
SME1B026.XLS	01	FL1	C01	2	2	-0.8	1.6
SME1B026.XLS	01	FL1	C01	2	1	-0.8	-0.1
SME1B026.XLS	01	EQ1	C01	2	2	0.7	-1.8
SME1B026.XLS	01	EQ1	C01	2	1	0.7	-1.8
SME1B026.XLS	01	CL1	C01	2	2	-0.8	1.6
SME1B026.XLS	01	CL1	C01	2	1	2.1	-3.5

NOTES: Activity reported in net dpm/100 cm². Count times are reported in minutes.
 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).
 45 results are listed.



Maine Yankee Atomic Power Plant Site Characterization

DATAFILE & TENNELEC CALIBRATION SUMMARY

03/24/98

Removable Contamination

Survey Package : B0300 SURFACES & STRUCTURES
MCC Rooms / Battery Room - Elevation 62 ft.
Includes Lower Battery Room, Upper Battery Room, Secured MCC Room and
Unsecured MCC Room

SURVEYDATE	XLS FILE	INST ID	S/N	CAL DUE	LAB TECHNICIAN
2/9/98	SME1B026.XLS	1	14131	8/7/98	SNM

CALIBRATION DATE VERIFIED AS ACCEPTABLE



Maine Yankee Atomic Power Plant Site Characterization

03/24/98

Gamma Exposure Rate Measurements At 1 Meter

Survey Package B0300 SURFACES & STRUCTURES
 MCC Rooms / Battery Room - Elevation 62 ft.
 Includes Lower Battery Room, Upper Battery Room, Secured MCC Room
 and Unsecured MCC Room

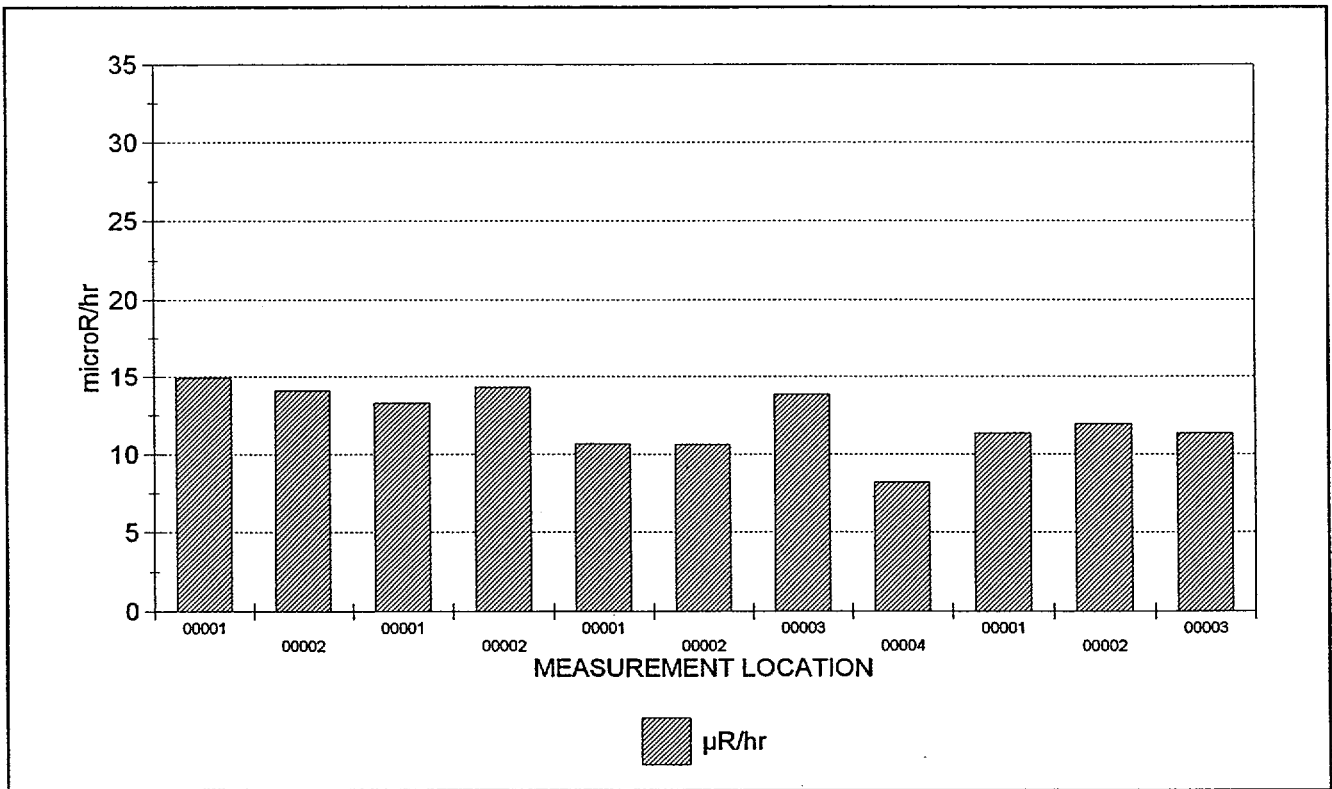
STATISTICAL SUMMARY

TESTS PERFORMED

	$\mu\text{R/hr}$
Mean	12.2
Maximum	14.9
Minimum	8.2
Standard Deviation	2.0

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

Samples Reported	11
Samples Prescribed	11



11 RESULTS ARE GRAPHED



Maine Yankee Atomic Power Plant Site Characterization

03/24/98

Gamma Exposure Rate Measurements At 1 Meter

Survey Package : B0300 SURFACES & STRUCTURES

MCC Rooms / Battery Room - Elevation 62 ft.

Includes Lower Battery Room, Upper Battery Room, Secured MCC Room and Unsecured MCC Room

RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	RESULT
352 (2)	01	FL1	B0001	C01	60.00	00001	14.9
352 (2)	01	FL1	B0001	C01	60.00	00002	14.1
352 (2)	02	FL1	B0001	C01	60.00	00001	13.3
352 (2)	02	FL1	B0001	C01	60.00	00002	14.3
352 (2)	03	FL1	B0001	C01	60.00	00001	10.7
352 (2)	03	FL1	B0001	C01	60.00	00002	10.6
352 (2)	03	FL1	B0001	C01	60.00	00003	13.9
352 (2)	03	FL1	B0001	C01	60.00	00004	8.2
352 (2)	04	FL1	B0001	C01	60.00	00001	11.3
352 (2)	04	FL1	B0001	C01	60.00	00002	11.9
352 (2)	04	FL1	B0001	C01	60.00	00003	11.3

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 $\mu\text{R/hr}$.

11 results are listed.



Maine Yankee Atomic Power Plant Site Characterization

DOWNLOAD FILE & SURVEY INSTRUMENTATION CALIBRATION SUMMARY

03/24/98

Gamma Exposure Rate Measurements At 1 Meter

Survey Package : B0300 SURFACES & STRUCTURES
 MCC Rooms / Battery Room - Elevation 62 ft.
 Includes Lower Battery Room, Upper Battery Room, Secured MCC Room an
 Unsecured MCC Room

SURVEY DATE	FILE #	M2350		DETECTOR			TECHNICIAN
		INST S/N	CAL DUE	MODEL	S/N	CAL DUE	
1/12/98	352 (2)	098639	4/16/98	44-2	129770	5/12/98	JJP1813

CALIBRATION DATES VERIFIED AS ACCEPTABLE



Maine Yankee Atomic Power Plant Site Characterization

04/01/98

CHARACTERIZATION SUMMARY

SURVEY PACKAGE NUMBER :B0400

SURFACES & STRUCTURES

PACKAGE DESCRIPTION

Fire Pump House - Elevation 1

SURVEY AREA DESCRIPTION

Fire Pump House

GENERAL HISTORICAL INFORMATION (Operational history, etc.)

The Fire Pump House is a concrete block building with a cement floor. It contains pumps and filtration units associated with processing water from the fire pond. The building contains a small sump.

SUMMARY OF CHARACTERIZATION ACTIVITIES

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

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

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

Collected smear samples to analyze for removable alpha and beta activity at the same 25 survey locations of direct measurements for total beta activity within the five square meter scanned area.

Collected one meter gamma exposure rate measurements at 5 survey locations for direct measurements for total beta activity on floor surfaces.

Collected 1 sediment, debris sample from floor drain 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 3 direct measurements for total beta activity above MDA (610.5 dpm/100cm²) and no results greater than 2000 dpm/100cm². The maximum measurement result was 840 dpm/100cm².
- o There was 1 measurement for removable beta activity above MDA (32.2 dpm/100cm²) and no result greater than 100 dpm/100cm². The maximum measurement result was 18.4 dpm/100cm².
- o There were no measurements for removable alpha activity above MDA (8.2 dpm/100cm²).
- o The average and maximum one meter exposure rate measurement results were 11.2 µR/hr and 12.8 µR/hr respectively.
- o The sample gamma spectral analysis result indicated no plant-derived radionuclide activity above MDA.

REFERENCES (Documents, Interviews)



Maine Yankee Atomic Power Plant Site Characterization

SUMMARY OF SURVEY UNIT(S)

03/24/98

OUTPUT BATCH SN = 225

PACKAGE B0400 SURFACES & STRUCTURES
Fire Pump House - Elevation 1

UNIT(S)	SURFACE(S)
01 - Fire Pump House	CL1 (Ceiling) EQ1 (Equipment) FD1 (Sump) FL1 (Floor) WS1 (Walls)

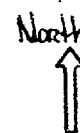
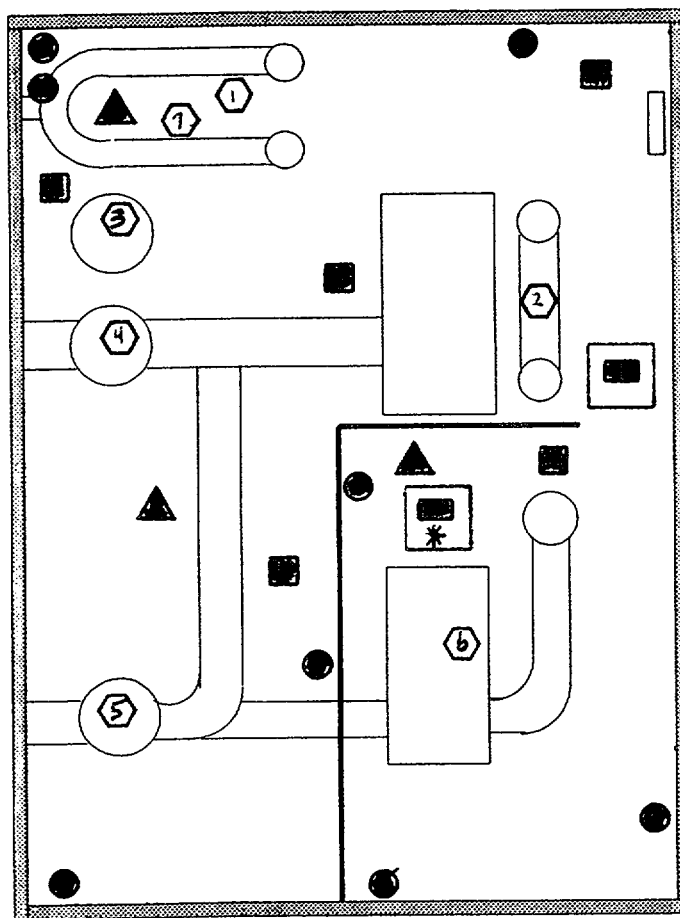
REASON(S) CHARACTERIZATION SURVEY (C01)

MATERIALS	MAT'L CODE	MATERIAL DESCRIPTION	BETA BKGD (dpm/100 cm ²)
	B0001	CONCRETE - PAINTED (INTERIOR)	478.0
	B0002	CONCRETE - BARE (INTERIOR)	665.0
	B0003	CINDER BLOCK - PAINTED (INTERIOR)	478.0
	B0025	WOOD - PAINTED	0.0
	B0036	METAL - PAINTED	0.0

Maine Yankee Atomic Power Plant Site Characterization

SURVEY PACKAGE B0400

Fire Pump House



B0400

- Survey locations on walls - OWWSI
- Survey locations on floor - OIFLI
- Survey locations on Equipment - OEELI
- ▲ Survey locations on ceiling - OCELI
- ▣ Survey locations on floor drain / sump - OIFDI
- * - Event Indicates sediment sample

Max
2-25-76



Maine Yankee Atomic Power Plant Site Characterization

03/24/98

Direct Measurements For Total Beta Activity

Survey Package B0400 SURFACES & STRUCTURES
Fire Pump House - Elevation 1

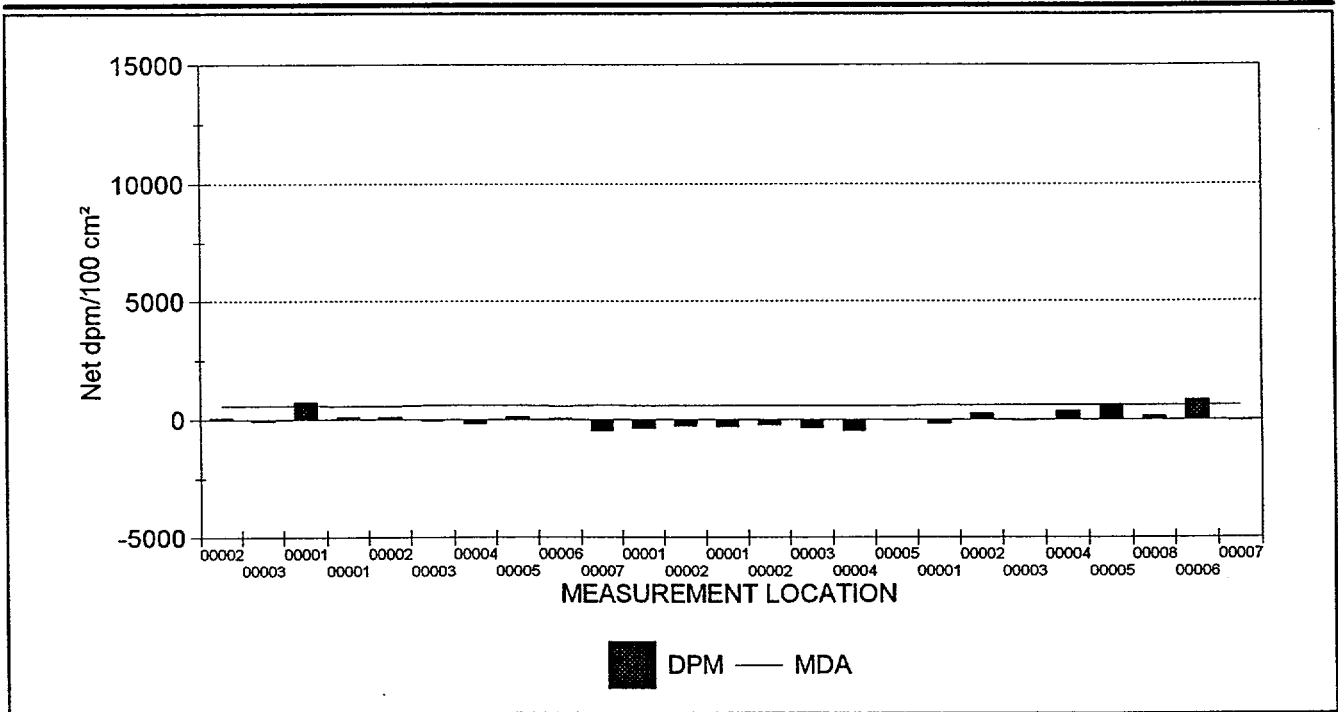
STATISTICAL SUMMARY

	Net dpm/100 cm ²
Mean	10.1
Maximum	840.1
Minimum	-494.5
Standard Deviation	351.2
MDA	610.5

TESTS PERFORMED

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	3

Samples Reported	25
Samples Prescribed	25



25 RESULTS ARE GRAPHED



Maine Yankee Atomic Power Plant Site Characterization

03/24/98

Direct Measurements For Total Beta Activity

Survey Package: B0400 SURFACES & STRUCTURES
Fire Pump House - Elevation 1

RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	MDA	RESULT
217 (2)	01	CL1	B0001	C01	10	00002	576.1	83.2
217 (2)	01	CL1	B0001	C01	10	00003	576.1	-77.7
217 (2)	01	CL1	B0025	C01	10	00001	576.1	<u>722.1</u>
216 (2)	01	EQ1	B0036	C01	10	00001	548.5	108.3
216 (2)	01	EQ1	B0036	C01	10	00002	548.5	108.3
219 (2)	01	EQ1	B0036	C01	10	00003	586.1	-53.2
219 (2)	01	EQ1	B0036	C01	10	00004	586.1	-183.8
219 (2)	01	EQ1	B0036	C01	10	00005	586.1	142.7
216 (2)	01	EQ1	B0036	C01	10	00006	548.5	42.9
265 (2)	01	EQ1	B0036	C01	10	00007	610.5	-488.0
217 (2)	01	FD1	B0002	C01	10	00001	576.1	-379.6
217 (2)	01	FD1	B0002	C01	10	00002	576.1	-287.7
217 (2)	01	FL1	B0002	C01	10	00001	576.1	-310.7
217 (2)	01	FL1	B0002	C01	10	00002	576.1	-241.7
217 (2)	01	FL1	B0002	C01	10	00003	576.1	-356.6
217 (2)	01	FL1	B0002	C01	10	00004	576.1	-494.5
217 (2)	01	FL1	B0002	C01	10	00005	576.1	-34.9
219 (2)	01	WS1	B0001	C01	10	00001	586.1	-182.9
219 (2)	01	WS1	B0001	C01	10	00002	586.1	252.4
219 (2)	01	WS1	B0001	C01	10	00003	586.1	-52.4
219 (2)	01	WS1	B0001	C01	10	00004	586.1	361.2
219 (2)	01	WS1	B0001	C01	10	00005	586.1	<u>622.4</u>
219 (2)	01	WS1	B0001	C01	10	00008	586.1	165.3
219 (2)	01	WS1	B0003	C01	10	00006	586.1	<u>840.1</u>
219 (2)	01	WS1	B0003	C01	10	00007	586.1	-52.4

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.
25 results are listed.



Maine Yankee Atomic Power Plant Site Characterization

DOWNLOAD FILE & SURVEY INSTRUMENTATION CALIBRATION SUMMARY

03/24/98

Direct Measurements For Total Beta Activity

Survey Package : B0400 SURFACES & STRUCTURES
Fire Pump House - Elevation 1

SURVEY DATE	FILE #	M2350		DETECTOR			PRE EFF	TECHNICIAN
		INST S/N	CAL DUE	MODEL	S/N	CAL DUE		
12/30/97	216 (2)	126170	6/10/98	43-106	133878	6/8/98	.22	MBK5187
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
12/30/97	217 (2)	98620	3/20/98	43-106	128919	3/20/98	.21	DRK2986
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
12/30/97	219 (2)	126201	4/15/98	43-106	133858	5/3/98	.22	BSM0490
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
1/2/98	265 (2)	126170	6/10/98	43-106	133878	6/8/98	.21	MBK5187
CALIBRATION DATES VERIFIED AS ACCEPTABLE								



Maine Yankee Atomic Power Plant Site Characterization

03/24/98

Removable Contamination - Gross Beta Activity

Survey Package B0400 SURFACES & STRUCTURES
Fire Pump House - Elevation 1

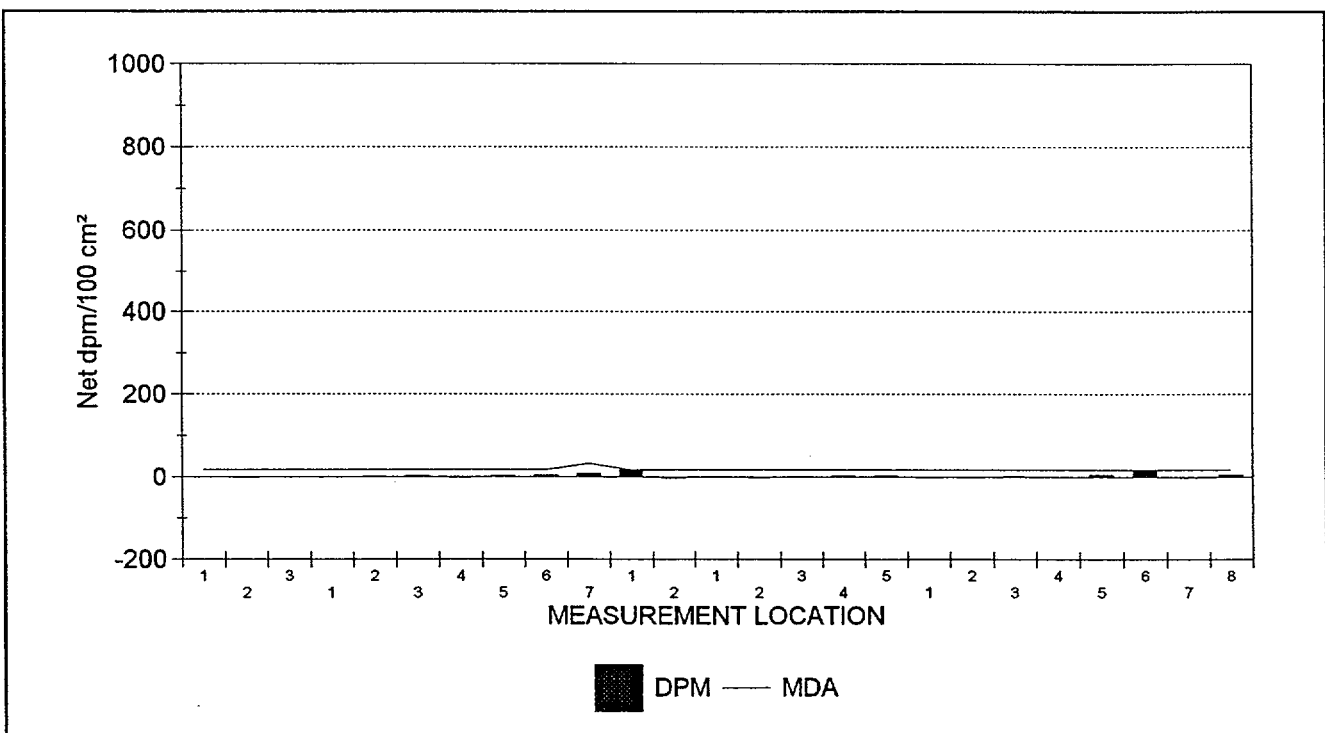
STATISTICAL SUMMARY

TESTS PERFORMED

	Net dpm/100 cm ²
Mean	2.6
Maximum	18.4
Minimum	-3.5
Standard Deviation	5.3
MDA	32.2

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

Samples Reported	25
Samples Prescribed	25



25 RESULTS ARE GRAPHED



Maine Yankee Atomic Power Plant Site Characterization

03/24/98

Removable Contamination - Gross Alpha Activity

Survey Package B0400 SURFACES & STRUCTURES
Fire Pump House - Elevation 1

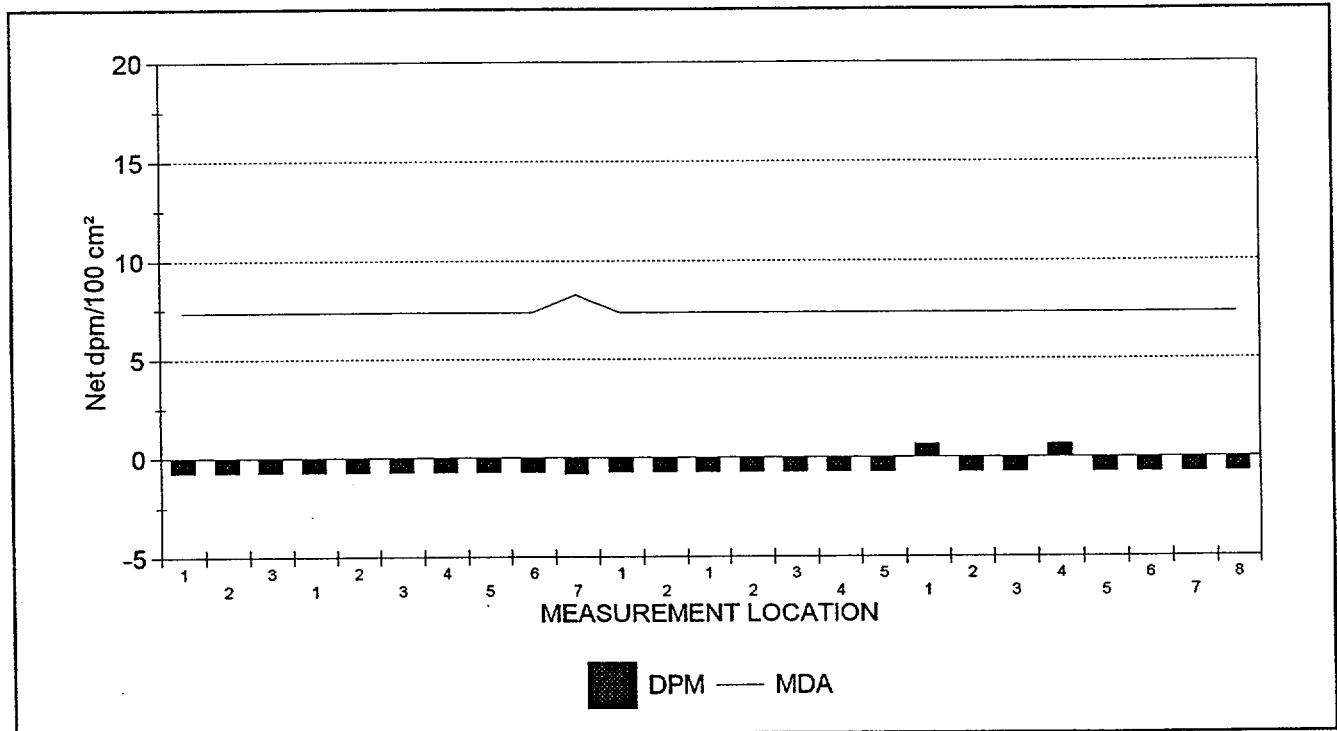
STATISTICAL SUMMARY

TESTS PERFORMED

	Net dpm/100 cm ²
Mean	-0.6
Maximum	0.7
Minimum	-0.9
Standard Deviation	0.4
MDA	8.2

Samples reported satisfy samples prescribed	YES
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	25
Samples Prescribed	25



25 RESULTS ARE GRAPHED



Maine Yankee Atomic Power Plant Site Characterization

03/24/98

Removable Contamination

Survey Package : B0400 SURFACES & STRUCTURES
 Fire Pump House - Elevation 1

RESULTS LISTING - SORTED BY SURFACE CODE

XLS FILE	UNIT	SURFACE	REASON	COUNT	MSRMNT	ALPHA	BETA
				TIME	LOCATION		
SME1B028.XLS	01	WS1	C01	2	8	-0.8	6.6
SME1B028.XLS	01	WS1	C01	2	7	-0.8	-1.8
SME1B028.XLS	01	WS1	C01	2	6	-0.8	15.0
SME1B028.XLS	01	WS1	C01	2	5	-0.8	6.6
SME1B028.XLS	01	WS1	C01	2	4	0.7	-0.1
SME1B028.XLS	01	WS1	C01	2	3	-0.8	1.6
SME1B028.XLS	01	WS1	C01	2	2	-0.8	-1.8
SME1B028.XLS	01	WS1	C01	2	1	0.7	-1.8
SME1B028.XLS	01	FL1	C01	2	5	-0.8	3.3
SME1B028.XLS	01	FL1	C01	2	4	-0.8	3.3
SME1B028.XLS	01	FL1	C01	2	3	-0.8	1.6
SME1B028.XLS	01	FL1	C01	2	2	-0.8	-1.8
SME1B028.XLS	01	FL1	C01	2	1	-0.8	1.6
SME1B028.XLS	01	FD1	C01	2	2	-0.8	-3.5
SME1B028.XLS	01	FD1	C01	2	1	-0.8	18.4
SME1E034.XLS	01	EQ1	C01	1	7	-0.8	8.9
SME1B028.XLS	01	EQ1	C01	2	6	-0.8	4.9
SME1B028.XLS	01	EQ1	C01	2	5	-0.8	3.3
SME1B028.XLS	01	EQ1	C01	2	4	-0.8	-1.8
SME1B028.XLS	01	EQ1	C01	2	3	-0.8	3.3
SME1B028.XLS	01	EQ1	C01	2	2	-0.8	1.6
SME1B028.XLS	01	EQ1	C01	2	1	-0.8	-0.1
SME1B028.XLS	01	CL1	C01	2	3	-0.8	-0.1
SME1B028.XLS	01	CL1	C01	2	2	-0.8	-1.8
SME1B028.XLS	01	CL1	C01	2	1	-0.8	-0.1

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

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).

25 results are listed.



Maine Yankee Atomic Power Plant Site Characterization

DATAFILE & TENNELEC CALIBRATION SUMMARY

03/24/98

Removable Contamination

Survey Package : B0400 SURFACES & STRUCTURES
Fire Pump House - Elevation 1

SURVEYDATE	XLS FILE	INST ID	S/N	CAL DUE	LAB TECHNICIAN
2/9/98	SME1B028.XLS	1	14131	8/7/98	RWD

CALIBRATION DATE VERIFIED AS ACCEPTABLE



Maine Yankee Atomic Power Plant Site Characterization

03/24/98

Gamma Exposure Rate Measurements At 1 Meter

Survey Package B0400 SURFACES & STRUCTURES
Fire Pump House - Elevation 1

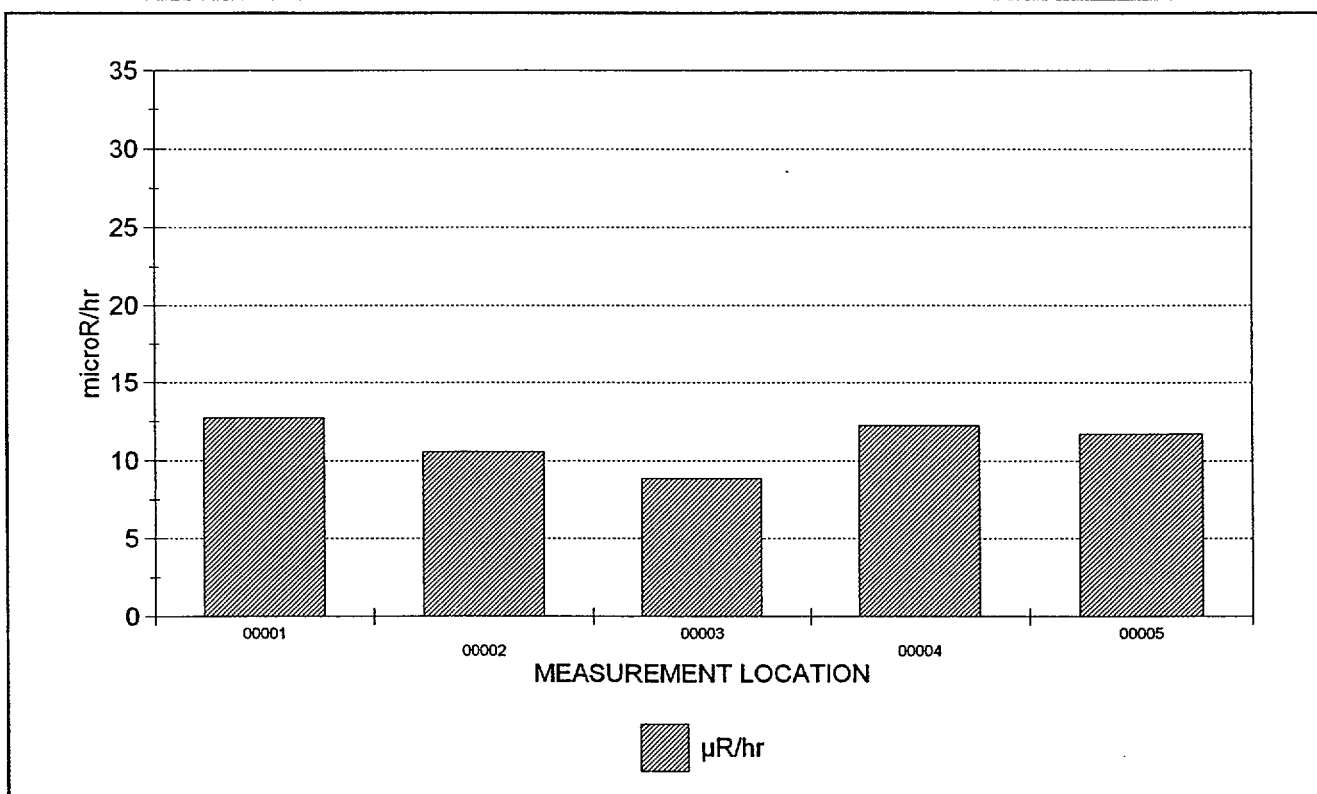
STATISTICAL SUMMARY

TESTS PERFORMED

	$\mu\text{R/hr}$
Mean	11.2
Maximum	12.8
Minimum	8.8
Standard Deviation	1.6

Samples reported satisfy samples prescribed	YES
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Samples Reported	5
Samples Prescribed	5



5 RESULTS ARE GRAPHED



Maine Yankee Atomic Power Plant Site Characterization

03/24/98

Gamma Exposure Rate Measurements At 1 Meter

Survey Package : B0400 SURFACES & STRUCTURES
 Fire Pump House - Elevation 1

RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	RESULT
214 (2)	01	FL1	B0002	C01	60.00	00001	12.8
214 (2)	01	FL1	B0002	C01	60.00	00002	10.6
214 (2)	01	FL1	B0002	C01	60.00	00003	8.8
214 (2)	01	FL1	B0002	C01	60.00	00004	12.3
214 (2)	01	FL1	B0002	C01	60.00	00005	11.7

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



Maine Yankee Atomic Power Plant Site Characterization

DOWNLOAD FILE & SURVEY INSTRUMENTATION CALIBRATION SUMMARY

03/24/98

Gamma Exposure Rate Measurements At 1 Meter

Survey Package : B0400 SURFACES & STRUCTURES
 Fire Pump House - Elevation 1

SURVEY DATE	FILE #	M2350		DETECTOR			TECHNICIAN
		INST S/N	CAL DUE	MODEL	S/N	CAL DUE	
12/30/97	214 (2)	126170	6/10/98	44-2	092400	6/11/98	MBK5187

CALIBRATION DATES VERIFIED AS ACCEPTABLE



Maine Yankee Atomic Power Plant Site Characterization

GAMMA SPECTRAL ANALYSIS RESULTS LISTING

03/29/98

OUTPUT BATCH SN = 316

Survey Package B0400 SURFACES & STRUCTURES
Fire Pump House - Elevation 1

UNIT : 01 SURFACE : FD1 REASON : C01

SAMPLE TYPE OR SURFACE SAMPLED: Floor Drains
SAMPLE LOCATOR: 00002-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY913	FAL00003	23.9	1800	Co-57	< 2.6	2.6	0.0
				Co-60	< 3.0	3.0	0.0
				Cs-134	< 3.3	3.3	0.0
				Cs-137	< 3.2	3.2	0.0
				K-40	< 42.7	42.7	0.0
				Mn-54	< 2.5	2.5	0.0



Maine Yankee Atomic Power Plant Site Characterization

04/27/98

CHARACTERIZATION SUMMARY

SURVEY PACKAGE NUMBER :B0500

SURFACES & STRUCTURES

PACKAGE DESCRIPTION

Condenser Bay - Elevation 21 ft.

SURVEY AREA DESCRIPTION

Condenser Bay 21 ft.

GENERAL HISTORICAL INFORMATION (Operational history, etc.)

Condenser Bay 21' contains the main condensers and associated pipings. This area is constructed with concrete floor, concrete block lower walls, steel frame, and metal siding upper walls. Chromate and asbestos are in the area and they are posted. Hot side of the shower effluent holding tank (unused) is on the NW side of building. The floor has been covered with painted epoxy. The truck bay has had several contamination incidents in the past.

SUMMARY OF CHARACTERIZATION ACTIVITIES

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

Performed a scan of approximately five square meters at 213 survey measurement locations indicated on the survey map(s). This was approximately 10% of the accessible surface area.

Collected direct measurements for total beta activity at 213 survey measurement locations at the highest location identified in the scan. If an elevated location was not observed, the measurement was collected at an arbitrary location, selected by the technician, within the five square meter scanned area.

Collected smear samples to analyze for removable alpha and beta activity at the same 213 survey locations of direct measurements for total beta activity.

Collected one meter gamma exposure rate measurements at 43 survey locations for direct measurements for total beta activity on floor surfaces.

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

CHARACTERIZATION SURVEY RESULTS

- o There were 12 direct measurements for total beta activity above MDA (649 dpm/100cm²) and 4 results greater than 2000 dpm/100cm². The maximum measurement result was 8,614 dpm/100cm².
- o There were 4 measurements for removable beta activity above MDA (17.3 dpm/100cm²) and 1 result greater than 100 dpm/100cm². The maximum measurement result was 203.4 dpm/100cm².
- o There were no measurements for removable alpha activity above MDA (7.3 dpm/100cm²).
- o The average and maximum one meter exposure rate measurement results were 8.6 µR/hr and 17.3 µR/hr respectively.

REFERENCES (Documents, Interviews)



Maine Yankee Atomic Power Plant Site Characterization

SUMMARY OF SURVEY UNIT(S)

03/24/98

OUTPUT BATCH SN = 223

PACKAGE B0500 SURFACES & STRUCTURES
 Condenser Bay - Elevation 21 ft.

UNIT(S)	SURFACE(S)
01 - Turbine Building 21' - general	CL1 (Ceiling) CL2 (Ceiling: Horizontal Supports Beams) EQ1 (Equipment: Cable Trays and Overhead Piping) FL1 (Floor) FL2 (Floor: Elevator floor) SW1 (Stairway) SW2 (Stairway) SW3 (Stairway) SW4 (Stairway) SW5 (Stairway) SW6 (Stairway) WS1 (The interior (North/South/West/East) walls of the Turbine Building 21') WS2 (Walls on the west side, free standing next to the feed water system) WS3 (Three free standing walls on the south side)
02 - Primary/Secondary Component Cooling Pumps	EQ1 (Equipment: Primary component cooling/secondary component cooling pumps) FL1 (Floor: Primary component cooling/secondary component cooling pumps)
03 - Primary/Secondary Heat Exchangers	EQ1 (Equipment: Primary component cooling/secondary component cooling heat exchangers) FL1 (Floor: Primary component cooling/secondary component cooling heat exchangers)
04 - Condensate Pumps -P27A and P27B	EQ1 (Equipment) FL1 (Floor)
05 - Gravity Filter Tanks -TR7/TR8/TR9	EQ1 (Equipment) FL1 (Floor)
06 - Water Treatment Area	EQ1 (Equipment) FL1 (Floor)
07 - Tool Crib Area	EQ1 (Equipment) FL1 (Floor)
08 - Steam Turbine Area	EQ1 (Equipment) FL1 (Floor: located on the lower/bottom floor of the steam turbine area) FL2 (Floor: located on the upper floor with all the equipment)
09 - Hydrogen/Air Pumps Area	EQ1 (Equipment: Hydrogen Air Pumps)
10 - Turbine Lube Oil Reservoir Area	EQ1 (Equipment) FL1 (Floor)
11 - Water Treatment Area	EQ1 (Equipment)

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

03/24/98

OUTPUT BATCH SN = 223

UNIT(S)	SURFACE(S)
12 - Demineralizer Area	EQ1 (Equipment)
13 - Air Compressor Area	EQ1 (Equipment: Air compressor area is located in southeast corner)
14 - Main Feed Water Pump A area	EQ1 (Equipment)
15 - Main Feed Water Pump B area	EQ1 (Equipment)
16 - Heater Drain Tank/Pumps Area	EQ1 (Equipment)
17 - Heater Drain Cooler Area	EQ1 (Equipment)
18 - Feedwater Heaters Area	EQ1 (Equipment)
19 - Condensor Area	EQ1 (Equipment) FL1 (Floor: "D" waterbox outlet) FL2 (Floor: "C" waterbox outlet) FL3 (Floor: "B" waterbox outlet) FL4 (Floor: "A" waterbox outlet)
20 - Vacuum Primary Pump (P28A and P28B) Area	EQ1 (Equipment)
21 - Cardox Tank	EQ1 (Equipment)

REASON(S) CHARACTERIZATION SURVEY (C01)

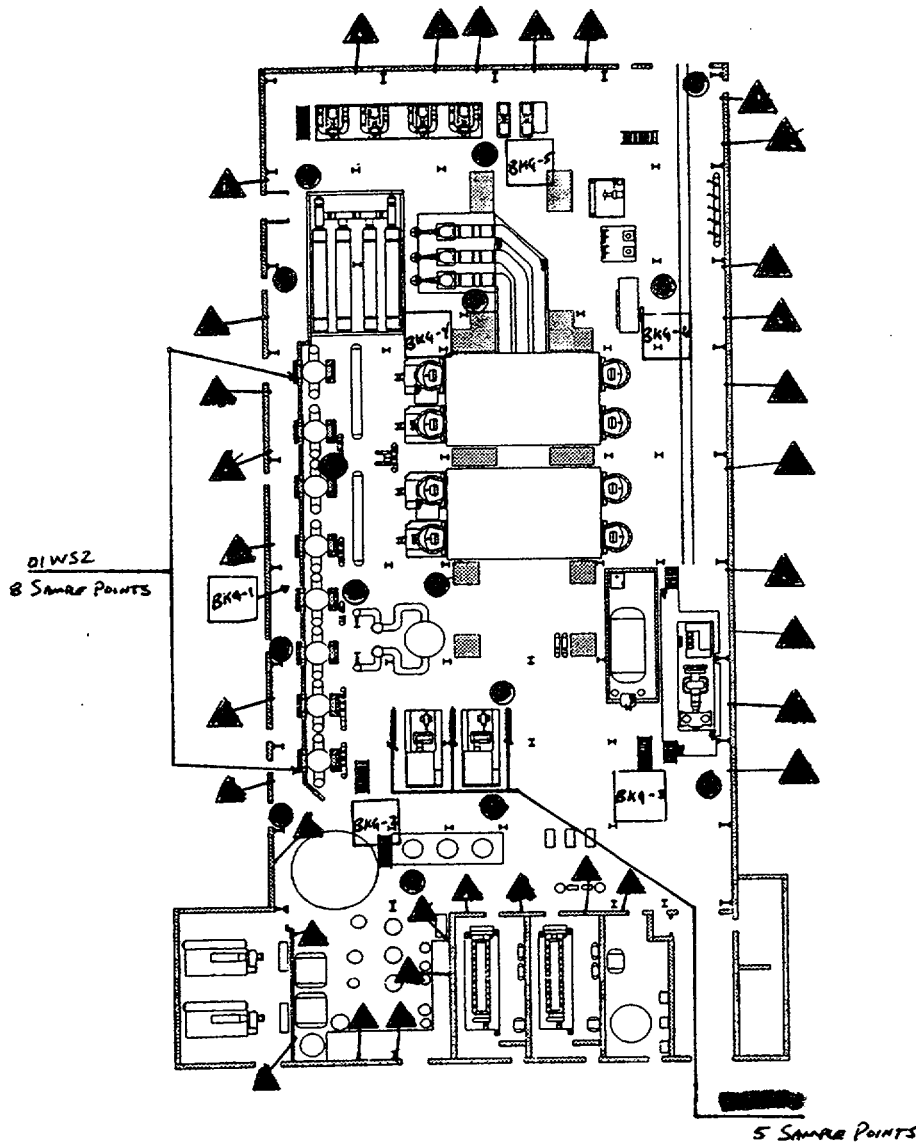
MATERIALS	MAT'L CODE	MATERIAL DESCRIPTION	BETA BKGD (dpm/100 cm ²)
	B0001	CONCRETE - PAINTED (INTERIOR)	478.0
	B0002	CONCRETE - BARE (INTERIOR)	665.0
	B0003	CINDER BLOCK - PAINTED (INTERIOR)	478.0
	B0031	METAL - BARE	0.0
	B0036	METAL - PAINTED	0.0
	B0050	VINYL (OVER WOOD)	0.0
	B9999	OTHER	0.0

Maine Yankee Atomic Power Plant Site Characterization

SURVEY PACKAGE B0500

B0500

Turbine Building 21 ft



▲ DENOTES WALL LOCATIONS

⊙ DENOTES FLOOR LOCATIONS

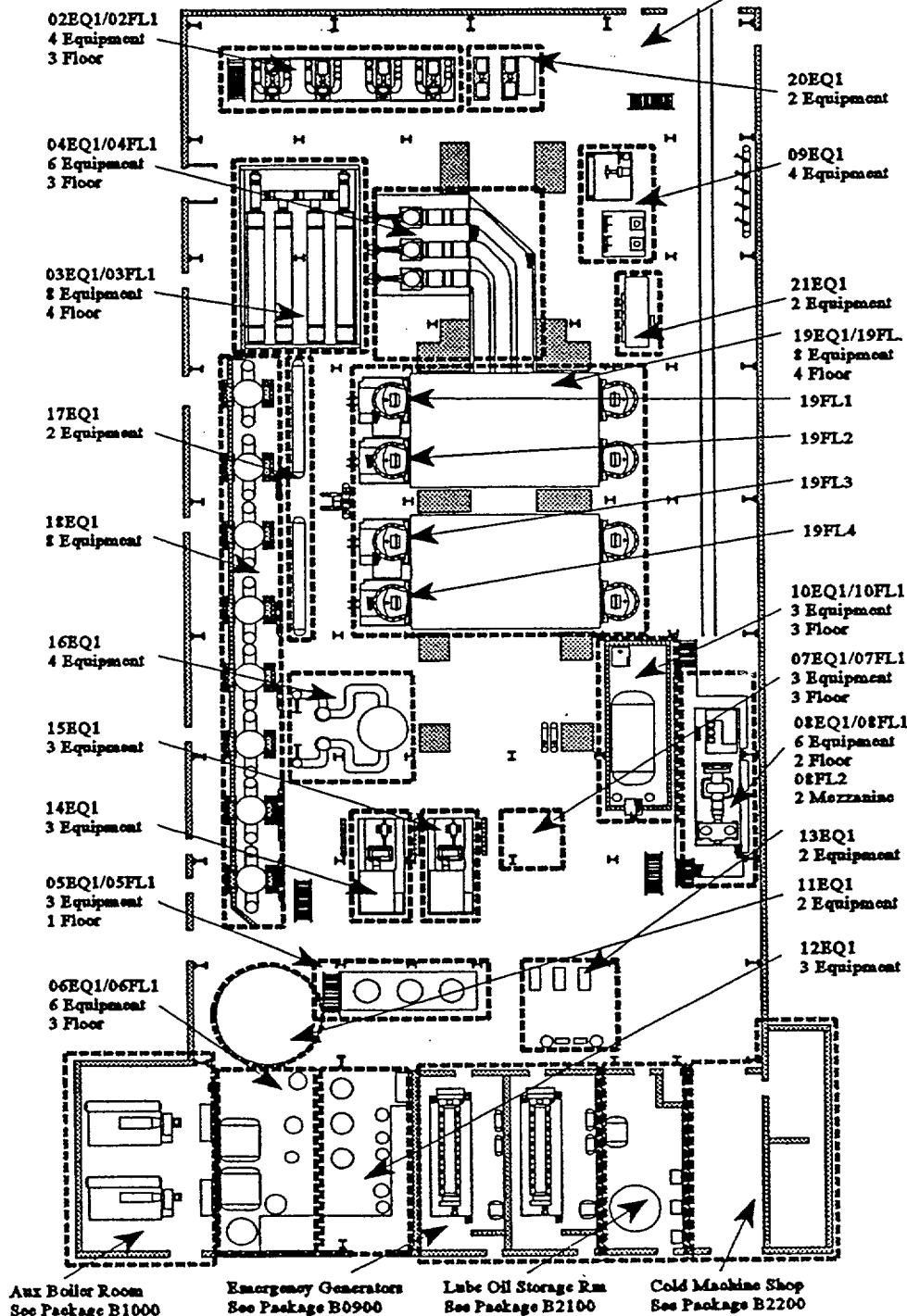


Maine Yankee Atomic Power Plant Site Characterization

SURVEY PACKAGE B0500

Turbine Building 21 ft
Survey Unit Locations

01EQ/01FL/01CL/01WS
XX Equipment
XX Floor
XX Walls
XX Ceiling



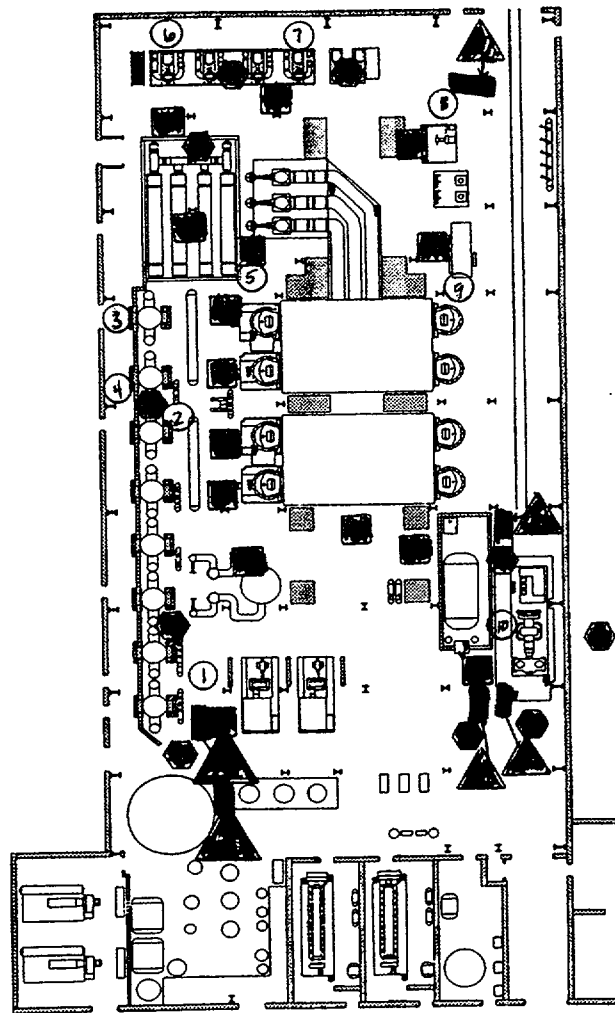


Maine Yankee Atomic Power Plant Site Characterization

SURVEY PACKAGE B0500

B0500

Turbine Building 21 ft



- # DENOTES CEILING LOCATIONS - 01C11
- ⊕ DENOTES CARTRAYS - 01E11
- ⊞ DENOTES HORIZONTAL SUPPORTS - 01C12
- △ DENOTES STAIRWAYS - 01S11, 01S12, ... 01S16



Maine Yankee Atomic Power Plant Site Characterization

03/24/98

Direct Measurements For Total Beta Activity

Survey Package B0500 SURFACES & STRUCTURES
Condenser Bay - Elevation 21 ft.

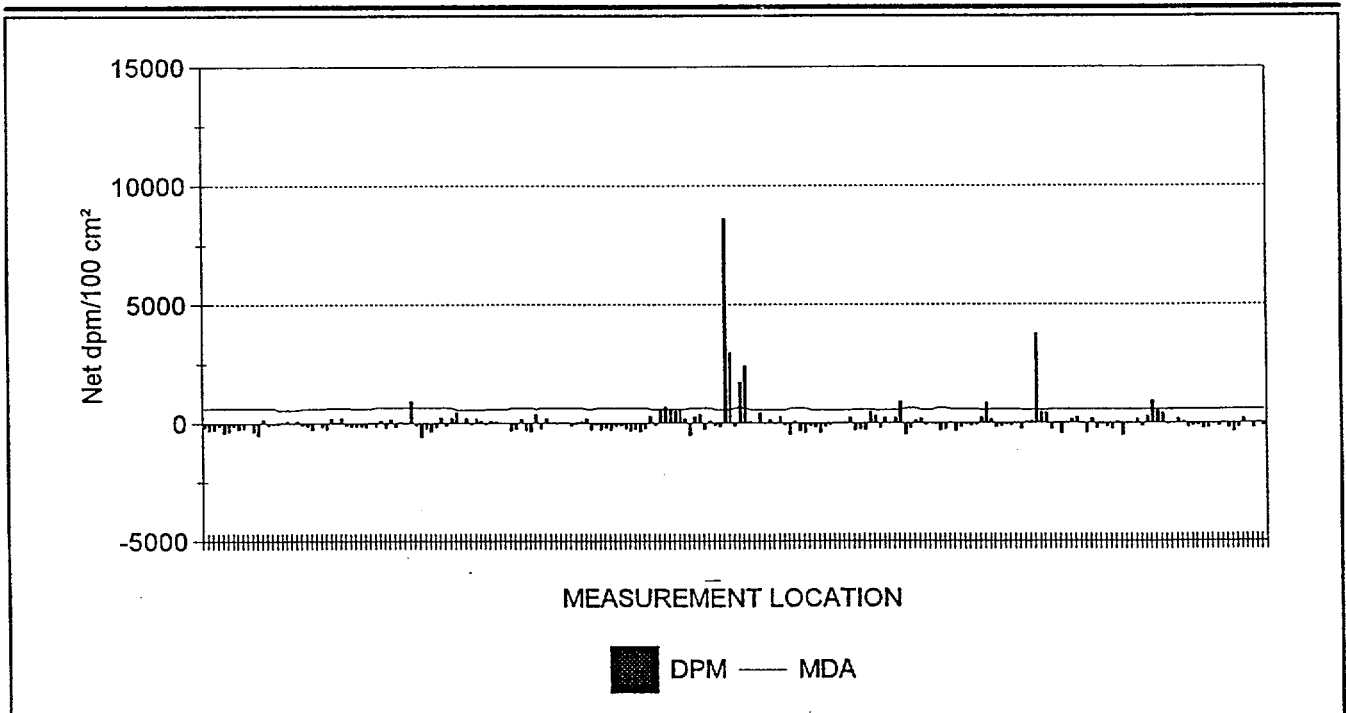
STATISTICAL SUMMARY

TESTS PERFORMED

	Net dpm/100 cm ²
Mean	62.1
Maximum	8,613.8
Minimum	-597.7
Standard Deviation	752.2
MDA	649.2

Samples reported satisfy samples prescribed	YES
MDA <2000 net dpm/100 cm ²	YES
Results above 2000 net dpm/100 cm ²	4
Number of results above MDA	12

Samples Reported	213
Samples Prescribed	213



213 RESULTS ARE GRAPHED



Maine Yankee Atomic Power Plant Site Characterization

03/24/98

Direct Measurements For Total Beta Activity

Survey Package : B0500 SURFACES & STRUCTURES
 Condenser Bay - Elevation 21 ft.

RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	MDA	RESULT
222 (2)	01	CL1	B0031	C01	10	00001	612.2	-174.4
222 (2)	01	CL1	B0031	C01	10	00002	612.2	-316.6
222 (2)	01	CL1	B0031	C01	10	00003	612.2	-292.9
222 (2)	01	CL1	B0031	C01	10	00004	612.2	-127.0
222 (2)	01	CL1	B0031	C01	10	00005	612.2	-411.3
222 (2)	01	CL1	B0031	C01	10	00006	612.2	-363.9
222 (2)	01	CL1	B0031	C01	10	00007	612.2	-127.0
222 (2)	01	CL1	B0031	C01	10	00008	612.2	-269.2
222 (2)	01	CL1	B0031	C01	10	00009	612.2	-221.8
222 (2)	01	CL1	B0031	C01	10	00010	612.2	-32.2
222 (2)	01	CL1	B0031	C01	10	00011	612.2	-363.9
222 (2)	01	CL1	B0031	C01	10	00012	612.2	-529.8
222 (2)	01	CL1	B0031	C01	10	00013	612.2	157.3
222 (2)	01	CL1	B0031	C01	10	00014	612.2	-103.3
222 (2)	01	CL1	B0031	C01	10	00015	612.2	-55.9
238 (2)	01	CL2	B0036	C01	10	00006	539.9	-61.1
238 (2)	01	CL2	B0036	C01	10	00007	539.9	35.6
238 (2)	01	CL2	B0036	C01	10	00008	539.9	83.9
238 (2)	01	CL2	B0036	C01	10	00009	539.9	-12.8
238 (2)	01	CL2	B0036	C01	10	00010	539.9	83.9
239 (2)	01	CL2	B9999	C01	10	00001	611.9	-74.7
239 (2)	01	CL2	B9999	C01	10	00002	611.9	-120.7
239 (2)	01	CL2	B9999	C01	10	00003	611.9	-281.7
239 (2)	01	CL2	B9999	C01	10	00004	611.9	-5.7
239 (2)	01	CL2	B9999	C01	10	00005	611.9	-166.7
223 (2)	01	EQ1	B9999	C01	10	00001	625.6	-255.1
223 (2)	01	EQ1	B9999	C01	10	00002	625.6	174.7
223 (2)	01	EQ1	B9999	C01	10	00003	625.6	16.3
223 (2)	01	EQ1	B9999	C01	10	00004	625.6	197.3
223 (2)	01	EQ1	B9999	C01	10	00005	625.6	-96.8
239 (2)	01	EQ1	B9999	C01	10	00006	611.9	-166.7
239 (2)	01	EQ1	B9999	C01	10	00007	611.9	-166.7
239 (2)	01	EQ1	B9999	C01	10	00008	611.9	-143.7
239 (2)	01	EQ1	B9999	C01	10	00009	611.9	-189.7
239 (2)	01	EQ1	B9999	C01	10	00010	611.9	-5.7
208 (2)	01	FL1	B0001	C01	10	00001	649.1	-157.1
208 (2)	01	FL1	B0001	C01	10	00002	649.1	112.2
208 (2)	01	FL1	B0001	C01	10	00003	649.1	-206.0
208 (2)	01	FL1	B0001	C01	10	00004	649.1	161.2
208 (2)	01	FL1	B0001	C01	10	00005	649.1	-157.1

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.



Maine Yankee Atomic Power Plant Site Characterization

03/24/98

Direct Measurements For Total Beta Activity

Survey Package : B0500 SURFACES & STRUCTURES
 Condenser Bay - Elevation 21 ft.

RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	MDA	RESULT
208 (2)	01	FL1	B0001	C01	10	00006	649.1	63.3
208 (2)	01	FL1	B0001	C01	10	00007	649.1	-34.7
208 (2)	01	FL1	B0001	C01	10	00008	649.1	<u>920.0</u>
208 (2)	01	FL1	B0001	C01	10	00009	649.1	-108.1
208 (2)	01	FL1	B0001	C01	10	00010	649.1	-597.7
208 (2)	01	FL1	B0001	C01	10	00011	649.1	-230.5
208 (2)	01	FL1	B0001	C01	10	00012	649.1	-352.9
208 (2)	01	FL1	B0001	C01	10	00013	649.1	-181.5
208 (2)	01	FL1	B0001	C01	10	00014	649.1	234.6
208 (2)	01	FL1	B0001	C01	10	00015	649.1	-108.1
222 (2)	01	FL2	B0050	C01	10	00001	612.2	204.7
238 (2)	01	SW1	B0036	C01	10	00001	539.9	446.4
238 (2)	01	SW2	B0036	C01	10	00001	539.9	11.4
238 (2)	01	SW3	B0036	C01	10	00001	539.9	204.7
238 (2)	01	SW4	B0036	C01	10	00001	539.9	-61.1
238 (2)	01	SW5	B0036	C01	10	00001	539.9	180.6
238 (2)	01	SW6	B0036	C01	10	00001	539.9	83.9
213 (2)	01	WS1	B0001	C01	10	00002	567.6	-59.0
213 (2)	01	WS1	B0001	C01	10	00003	567.6	79.5
213 (2)	01	WS1	B0001	C01	10	00004	567.6	56.4
213 (2)	01	WS1	B0001	C01	10	00005	567.6	10.3
213 (2)	01	WS1	B0001	C01	10	00006	567.6	10.3
223 (2)	01	WS1	B0001	C01	10	00017	625.6	-303.3
223 (2)	01	WS1	B0001	C01	10	00018	625.6	-258.1
223 (2)	01	WS1	B0001	C01	10	00025	625.6	149.1
223 (2)	01	WS1	B0001	C01	10	00026	625.6	-303.3
223 (2)	01	WS1	B0001	C01	10	00027	625.6	-371.2
213 (2)	01	WS1	B0003	C01	10	00001	567.6	356.7
223 (2)	01	WS1	B0003	C01	10	00009	625.6	-235.4
223 (2)	01	WS1	B0003	C01	10	00010	625.6	171.8
223 (2)	01	WS1	B0003	C01	10	00011	625.6	-9.2
223 (2)	01	WS1	B0003	C01	10	00012	625.6	-31.8
223 (2)	01	WS1	B0003	C01	10	00013	625.6	36.0
223 (2)	01	WS1	B0003	C01	10	00014	625.6	36.0
223 (2)	01	WS1	B0003	C01	10	00015	625.6	-99.7
223 (2)	01	WS1	B0003	C01	10	00016	625.6	-31.8
223 (2)	01	WS1	B0003	C01	10	00024	625.6	58.7
213 (2)	01	WS1	B0036	C01	10	00007	567.6	188.0
213 (2)	01	WS1	B0036	C01	10	00008	567.6	-297.1
223 (2)	01	WS1	B0036	C01	10	00019	625.6	-74.2

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

03/24/98

Direct Measurements For Total Beta Activity

Survey Package : B0500 SURFACES & STRUCTURES
 Condenser Bay - Elevation 21 ft.

RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	MDA	RESULT
223 (2)	01	WS1	B0036	C01	10	00020	625.6	-277.8
223 (2)	01	WS1	B0036	C01	10	00021	625.6	-209.9
223 (2)	01	WS1	B0036	C01	10	00022	625.6	-277.8
223 (2)	01	WS1	B0036	C01	10	00023	625.6	-142.0
223 (2)	01	WS1	B9999	C01	10	00028	625.6	-96.8
223 (2)	01	WS1	B9999	C01	10	00029	625.6	-232.5
223 (2)	01	WS1	B9999	C01	10	00030	625.6	-345.6
223 (2)	01	WS1	B9999	C01	10	00031	625.6	-255.1
223 (2)	01	WS1	B9999	C01	10	00032	625.6	-368.2
223 (2)	01	WS1	B9999	C01	10	00033	625.6	-232.5
213 (2)	01	WS2	B0003	C01	10	00001	567.6	287.4
213 (2)	01	WS2	B0003	C01	10	00002	567.6	-105.2
213 (2)	01	WS2	B0003	C01	10	00003	567.6	<u>610.8</u>
213 (2)	01	WS2	B0003	C01	10	00004	567.6	<u>680.1</u>
213 (2)	01	WS2	B0003	C01	10	00005	567.6	<u>610.8</u>
213 (2)	01	WS2	B0003	C01	10	00006	567.6	495.3
213 (2)	01	WS2	B0003	C01	10	00007	567.6	518.4
213 (2)	01	WS2	B0003	C01	10	00008	567.6	171.9
195 (2)	01	WS3	B0003	C01	10	00001	624.7	-512.8
195 (2)	01	WS3	B0003	C01	10	00002	624.7	252.4
195 (2)	01	WS3	B0003	C01	10	00003	624.7	368.3
195 (2)	01	WS3	B0003	C01	10	00004	624.7	-257.7
195 (2)	01	WS3	B0003	C01	10	00005	624.7	66.9
161 (2)	02	EQ1	B9999	C01	10	00001	545.3	-101.9
161 (2)	02	EQ1	B9999	C01	10	00002	545.3	-149.5
161 (2)	02	EQ1	B9999	C01	10	00003	545.3	<u>8,613.7</u>
161 (2)	02	EQ1	B9999	C01	10	00004	545.3	<u>2,970.0</u>
162 (2)	02	FL1	B0001	C01	10	00001	620.5	-118.0
162 (2)	02	FL1	B0001	C01	10	00002	620.5	<u>1,730.0</u>
162 (2)	02	FL1	B0001	C01	10	00003	620.5	<u>2,386.5</u>
161 (2)	03	EQ1	B9999	C01	10	00001	545.3	64.8
161 (2)	03	EQ1	B9999	C01	10	00002	545.3	-6.6
161 (2)	03	EQ1	B9999	C01	10	00003	545.3	422.0
161 (2)	03	EQ1	B9999	C01	10	00004	545.3	-30.4
161 (2)	03	EQ1	B9999	C01	10	00005	545.3	136.3
161 (2)	03	EQ1	B9999	C01	10	00006	545.3	-30.4
161 (2)	03	EQ1	B9999	C01	10	00007	545.3	255.3
161 (2)	03	EQ1	B9999	C01	10	00008	545.3	-78.1
162 (2)	03	FL1	B0001	C01	10	00001	620.5	-507.0
162 (2)	03	FL1	B0001	C01	10	00002	620.5	76.5

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

03/24/98

Direct Measurements For Total Beta Activity

Survey Package : B0500 SURFACES & STRUCTURES
Condenser Bay - Elevation 21 ft.

RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	MDA	RESULT
162 (2)	03	FL1	B0001	C01	10	00003	620.5	-336.8
162 (2)	03	FL1	B0001	C01	10	00004	620.5	-409.8
191 (2)	04	EQ1	B9999	C01	10	00001	538.9	-123.5
191 (2)	04	EQ1	B9999	C01	10	00002	538.9	-171.3
191 (2)	04	EQ1	B9999	C01	10	00003	538.9	-410.2
191 (2)	04	EQ1	B9999	C01	10	00004	538.9	-147.4
191 (2)	04	EQ1	B9999	C01	10	00005	538.9	-75.7
191 (2)	04	EQ1	B9999	C01	10	00006	538.9	-4.0
191 (2)	04	FL1	B0002	C01	10	00001	538.9	0.1
191 (2)	04	FL1	B0002	C01	10	00002	538.9	24.0
191 (2)	04	FL1	B0002	C01	10	00003	538.9	239.1
188 (2)	05	EQ1	B9999	C01	10	00001	585.3	-305.9
188 (2)	05	EQ1	B9999	C01	10	00002	585.3	-260.1
188 (2)	05	EQ1	B9999	C01	10	00003	585.3	-283.0
188 (2)	05	FL1	B0001	C01	10	00001	585.3	475.4
161 (2)	06	EQ1	B9999	C01	10	00001	545.3	303.0
161 (2)	06	EQ1	B9999	C01	10	00002	545.3	-220.9
161 (2)	06	EQ1	B9999	C01	10	00003	545.3	231.5
161 (2)	06	EQ1	B9999	C01	10	00004	545.3	17.2
161 (2)	06	EQ1	B9999	C01	10	00005	545.3	231.5
161 (2)	06	EQ1	B9999	C01	10	00006	545.3	874.5
162 (2)	06	FL1	B0001	C01	10	00001	620.5	-507.0
162 (2)	06	FL1	B0001	C01	10	00002	620.5	-215.3
162 (2)	06	FL1	B0001	C01	10	00003	620.5	100.8
161 (2)	07	EQ1	B9999	C01	10	00001	545.3	183.9
161 (2)	07	EQ1	B9999	C01	10	00002	545.3	-78.1
161 (2)	07	EQ1	B9999	C01	10	00003	545.3	-6.6
162 (2)	07	FL1	B0001	C01	10	00001	620.5	-45.0
162 (2)	07	FL1	B0002	C01	10	00002	620.5	-305.0
162 (2)	07	FL1	B0002	C01	10	00003	620.5	-256.4
173 (2)	08	EQ1	B9999	C01	10	00001	573.9	27.6
173 (2)	08	EQ1	B9999	C01	10	00002	573.9	-335.8
173 (2)	08	EQ1	B9999	C01	10	00003	573.9	-190.4
173 (2)	08	EQ1	B9999	C01	10	00004	573.9	-45.1
173 (2)	08	EQ1	B9999	C01	10	00005	573.9	-93.5
173 (2)	08	EQ1	B9999	C01	10	00006	573.9	-69.3
191 (2)	08	FL1	B0002	C01	10	00001	538.9	239.1
191 (2)	08	FL1	B0002	C01	10	00002	538.9	<u>836.6</u>
173 (2)	08	FL2	B9999	C01	10	00001	573.9	148.7
173 (2)	08	FL2	B9999	C01	10	00002	573.9	-190.4

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

03/24/98

Direct Measurements For Total Beta Activity

Survey Package : B0500 SURFACES & STRUCTURES
Condenser Bay - Elevation 21 ft.

RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	MDA	RESULT
173 (2)	09	EQ1	B9999	C01	10	00001	573.9	-142.0
173 (2)	09	EQ1	B9999	C01	10	00002	573.9	-45.1
173 (2)	09	EQ1	B9999	C01	10	00003	573.9	-93.5
173 (2)	09	EQ1	B9999	C01	10	00004	573.9	-20.9
191 (2)	10	EQ1	B9999	C01	10	00001	538.9	-266.9
191 (2)	10	EQ1	B9999	C01	10	00002	538.9	43.8
191 (2)	10	EQ1	B9999	C01	10	00003	538.9	67.7
191 (2)	10	FL1	B0001	C01	10	00001	538.9	<u>3,771.7</u>
191 (2)	10	FL1	B0001	C01	10	00002	538.9	450.0
191 (2)	10	FL1	B0001	C01	10	00003	538.9	426.1
173 (2)	11	EQ1	B9999	C01	10	00001	573.9	-263.1
173 (2)	11	EQ1	B9999	C01	10	00002	573.9	27.6
173 (2)	12	EQ1	B9999	C01	10	00001	573.9	-432.7
173 (2)	12	EQ1	B9999	C01	10	00002	573.9	27.6
173 (2)	12	EQ1	B9999	C01	10	00003	573.9	148.7
172 (2)	13	EQ1	B9999	C01	10	00001	560.6	238.4
172 (2)	13	EQ1	B9999	C01	10	00002	560.6	7.1
172 (2)	14	EQ1	B9999	C01	10	00001	560.6	-409.3
172 (2)	14	EQ1	B9999	C01	10	00002	560.6	192.1
172 (2)	14	EQ1	B9999	C01	10	00003	560.6	-247.4
172 (2)	15	EQ1	B9999	C01	10	00001	560.6	-39.2
172 (2)	15	EQ1	B9999	C01	10	00002	560.6	-154.8
172 (2)	15	EQ1	B9999	C01	10	00003	560.6	-270.5
172 (2)	16	EQ1	B9999	C01	10	00001	560.6	53.3
172 (2)	16	EQ1	B9999	C01	10	00002	560.6	-524.9
172 (2)	16	EQ1	B9999	C01	10	00003	560.6	-16.1
172 (2)	16	EQ1	B9999	C01	10	00004	560.6	-16.1
172 (2)	17	EQ1	B9999	C01	10	00001	560.6	169.0
172 (2)	17	EQ1	B9999	C01	10	00002	560.6	-131.7
172 (2)	18	EQ1	B9999	C01	10	00001	560.6	284.6
172 (2)	18	EQ1	B9999	C01	10	00002	560.6	<u>909.2</u>
172 (2)	18	EQ1	B9999	C01	10	00003	560.6	515.9
172 (2)	18	EQ1	B9999	C01	10	00004	560.6	423.4
172 (2)	18	EQ1	B9999	C01	10	00005	560.6	-62.3
172 (2)	18	EQ1	B9999	C01	10	00006	560.6	7.1
172 (2)	18	EQ1	B9999	C01	10	00007	560.6	192.1
172 (2)	18	EQ1	B9999	C01	10	00008	560.6	53.3
172 (2)	19	EQ1	B9999	C01	10	00001	560.6	-178.0
172 (2)	19	EQ1	B9999	C01	10	00002	560.6	-131.7
172 (2)	19	EQ1	B9999	C01	10	00003	560.6	-108.6

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 : B0500 SURFACES & STRUCTURES
 Condenser Bay - Elevation 21 ft.

RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	MDA	RESULT
172 (2)	19	EQ1	B9999	C01	10	00004	560.6	-247.4
172 (2)	19	EQ1	B9999	C01	10	00005	560.6	-201.1
172 (2)	19	EQ1	B9999	C01	10	00006	560.6	-62.3
172 (2)	19	EQ1	B9999	C01	10	00007	560.6	-131.7
172 (2)	19	EQ1	B9999	C01	10	00008	560.6	-16.1
188 (2)	19	FL1	B0002	C01	10	00001	585.3	-215.3
188 (2)	19	FL2	B0002	C01	10	00001	585.3	-352.7
188 (2)	19	FL3	B0002	C01	10	00001	585.3	-192.4
188 (2)	19	FL4	B0002	C01	10	00001	585.3	173.9
173 (2)	20	EQ1	B9999	C01	10	00001	573.9	3.4
173 (2)	20	EQ1	B9999	C01	10	00002	573.9	-214.7
173 (2)	21	EQ1	B9999	C01	10	00001	573.9	27.6
173 (2)	21	EQ1	B9999	C01	10	00002	573.9	-142.0

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.
 213 results are listed.



Maine Yankee Atomic Power Plant Site Characterization

DOWNLOAD FILE & SURVEY INSTRUMENTATION CALIBRATION SUMMARY

03/24/98

Direct Measurements For Total Beta Activity

Survey Package : B0500 SURFACES & STRUCTURES
 Condenser Bay - Elevation 21 ft.

SURVEY DATE	FILE #	M2350		DETECTOR			PRE EFF	TECHNICIAN
		INST S/N	CAL DUE	MODEL	S/N	CAL DUE		
12/16/97	161 (2)	126196	4/15/98	43-106	126897	4/18/98	.20	DJH2236
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
12/16/97	162 (2)	080498	4/8/98	43-68	PR075149	4/8/98	.20	CWI5440
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
12/17/97	172 (2)	126196	4/15/98	43-106	126897	4/18/98	.21	DJH2236
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
12/17/97	173 (2)	080498	4/8/98	43-68	PR075149	4/8/98	.20	CWI5440
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
12/18/97	188 (2)	126196	4/15/98	43-106	126897	4/18/98	.21	DJH2236
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
12/18/97	191 (2)	080498	4/8/98	43-68	PR075149	4/8/98	.20	CWI5440
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
12/19/97	195 (2)	126196	4/15/98	43-106	126897	4/18/98	.21	DJH2236
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
12/29/97	208 (2)	080498	4/8/98	43-68	PR075149	4/8/98	.19	CWI5440
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
12/29/97	213 (2)	126196	4/15/98	43-106	126897	4/18/98	.21	DJH2236
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
12/30/97	222 (2)	080498	4/8/98	43-68	PR075149	4/8/98	.20	CWI5440
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
12/30/97	223 (2)	126196	4/15/98	43-106	126897	4/18/98	.21	DJH2236
CALIBRATION DATES VERIFIED AS ACCEPTABLE								



Maine Yankee Atomic Power Plant Site Characterization

DOWNLOAD FILE & SURVEY INSTRUMENTATION CALIBRATION SUMMARY

03/24/98

Direct Measurements For Total Beta Activity

Survey Package : B0500 SURFACES & STRUCTURES
 Condenser Bay - Elevation 21 ft.

SURVEY DATE	FILE #	M2350		DETECTOR			PRE EFF	TECHNICIAN
		INST S/N	CAL DUE	MODEL	S/N	CAL DUE		
12/31/97	238 (2)	080498	4/8/98	43-68	PR075149	4/8/98	.20	CWI5440
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
12/31/97	239 (2)	126196	4/15/98	43-106	126897	4/18/98	.21	DJH2236
CALIBRATION DATES VERIFIED AS ACCEPTABLE								



Maine Yankee Atomic Power Plant Site Characterization

03/24/98

Removable Contamination - Gross Beta Activity

Survey Package B0500 SURFACES & STRUCTURES
Condenser Bay - Elevation 21 ft.

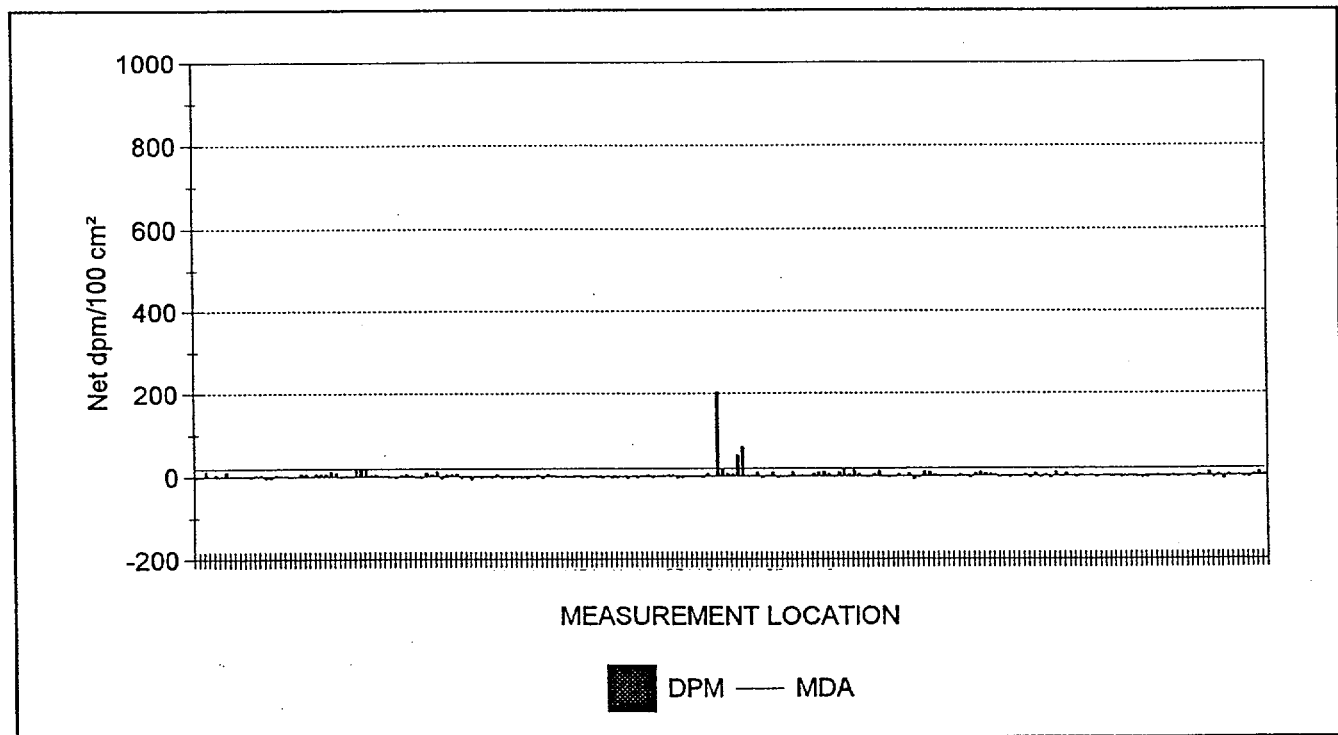
STATISTICAL SUMMARY

TESTS PERFORMED

	Net dpm/100 cm ²
Mean	2.8
Maximum	203.4
Minimum	-6.8
Standard Deviation	15.8
MDA	17.3

Samples reported satisfy samples prescribed	YES
MDA < 100 net dpm/100 cm ²	YES
Results above 100 net dpm/100 cm ²	1
Number of results above MDA	4

Samples Reported	213
Samples Prescribed	213



213 RESULTS ARE GRAPHED



Maine Yankee Atomic Power Plant Site Characterization

03/24/98

Removable Contamination - Gross Alpha Activity

Survey Package B0500 SURFACES & STRUCTURES
Condenser Bay - Elevation 21 ft.

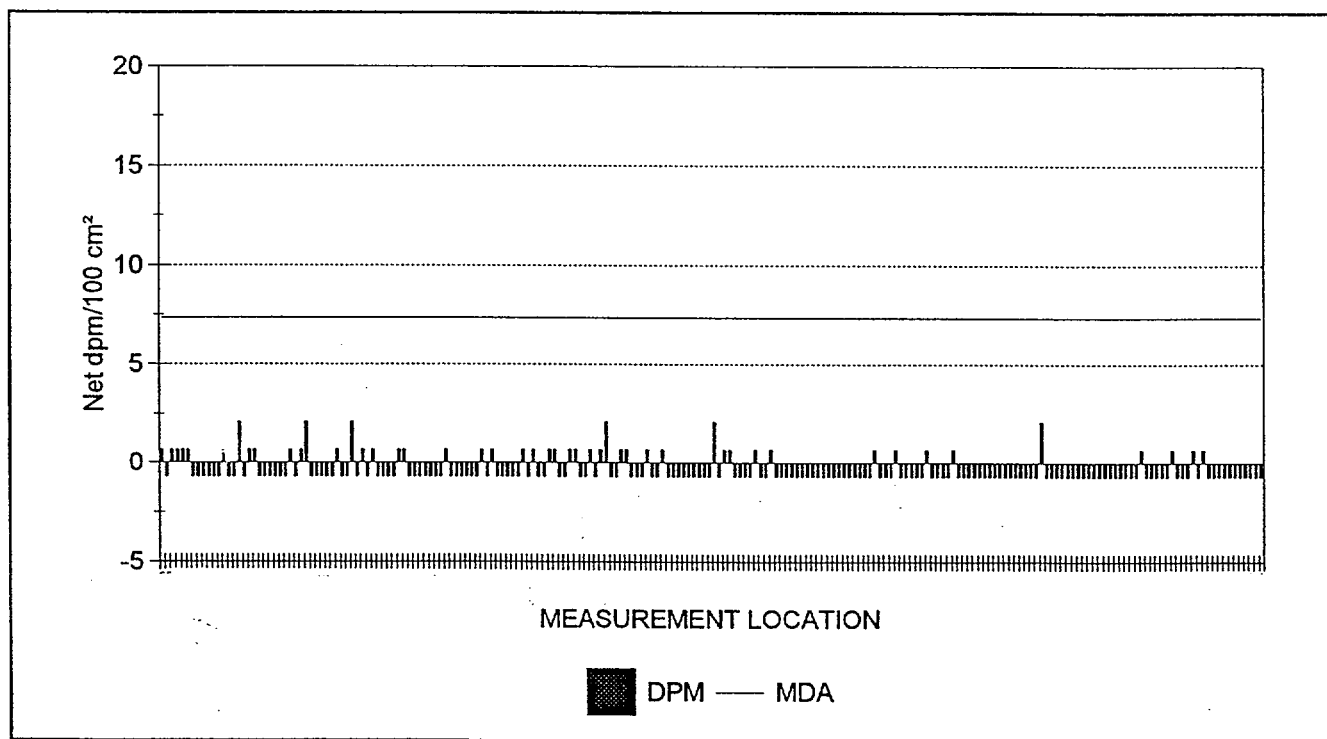
STATISTICAL SUMMARY

TESTS PERFORMED

	Net dpm/100 cm ²
Mean	-0.4
Maximum	2.1
Minimum	-0.8
Standard Deviation	0.7
MDA	7.3

Samples reported satisfy samples prescribed	YES
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	213
Samples Prescribed	213



213 RESULTS ARE GRAPHED



Maine Yankee Atomic Power Plant Site Characterization

03/24/98

Removable Contamination

Survey Package : B0500 SURFACES & STRUCTURES
 Condenser Bay - Elevation 21 ft.

RESULTS LISTING - SORTED BY SURFACE CODE

XLS FILE	UNIT	SURFACE	REASON	COUNT TIME	MSRMNT LOCATION	ALPHA	BETA
SME1B030.XLS	21	EQ1	C01	2	2	-0.8	3.3
SME1B030.XLS	21	EQ1	C01	2	1	-0.8	8.3
SME1B030.XLS	20	EQ1	C01	2	2	-0.8	3.3
SME1B030.XLS	20	EQ1	C01	2	1	-0.8	-5.2
SME1B029.XLS	19	FL4	C01	2	1	-0.8	-3.5
SME1B029.XLS	19	FL3	C01	2	1	-0.8	1.6
SME1B029.XLS	19	FL2	C01	2	1	-0.8	-0.1
SME1B029.XLS	19	FL1	C01	2	1	-0.8	3.3
SME1B029.XLS	19	EQ1	C01	2	8	-0.8	-6.8
SME1B029.XLS	19	EQ1	C01	2	7	-0.8	3.3
SME1B029.XLS	19	EQ1	C01	2	6	-0.8	-5.2
SME1B029.XLS	19	EQ1	C01	2	5	0.7	8.3
SME1B029.XLS	19	EQ1	C01	2	4	-0.8	-0.1
SME1B029.XLS	19	EQ1	C01	2	3	0.7	3.3
SME1B029.XLS	19	EQ1	C01	2	2	-0.8	-3.5
SME1B029.XLS	19	EQ1	C01	2	1	-0.8	1.6
SME1B029.XLS	18	EQ1	C01	2	8	-0.8	-0.1
SME1B029.XLS	18	EQ1	C01	2	7	0.7	-3.5
SME1B029.XLS	18	EQ1	C01	2	6	-0.8	1.6
SME1B029.XLS	18	EQ1	C01	2	5	-0.8	-3.5
SME1B029.XLS	18	EQ1	C01	2	4	-0.8	-1.8
SME1B029.XLS	18	EQ1	C01	2	3	-0.8	1.6
SME1B029.XLS	18	EQ1	C01	2	2	-0.8	-1.8
SME1B029.XLS	18	EQ1	C01	2	1	0.7	-5.2
SME1B029.XLS	17	EQ1	C01	2	2	-0.8	-5.2
SME1B029.XLS	17	EQ1	C01	2	1	-0.8	-3.5
SME1B029.XLS	16	EQ1	C01	2	4	-0.8	-1.8
SME1B029.XLS	16	EQ1	C01	2	3	-0.8	-1.8
SME1B029.XLS	16	EQ1	C01	2	2	-0.8	-3.5
SME1B029.XLS	16	EQ1	C01	2	1	-0.8	1.6
SME1B029.XLS	15	EQ1	C01	2	3	-0.8	-1.8
SME1B029.XLS	15	EQ1	C01	2	2	-0.8	1.6
SME1B029.XLS	15	EQ1	C01	2	1	-0.8	-0.1
SME1B029.XLS	14	EQ1	C01	2	3	-0.8	-3.5
SME1B029.XLS	14	EQ1	C01	2	2	-0.8	-0.1
SME1B029.XLS	14	EQ1	C01	2	1	-0.8	-0.1
SME1B029.XLS	13	EQ1	C01	2	2	-0.8	1.6
SME1B029.XLS	13	EQ1	C01	2	1	-0.8	-3.5
SME1B029.XLS	12	EQ1	C01	2	3	-0.8	-0.1
SME1B029.XLS	12	EQ1	C01	2	2	-0.8	6.6

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

03/24/98

Removable Contamination

Survey Package : B0500 SURFACES & STRUCTURES
 Condenser Bay - Elevation 21 ft.

RESULTS LISTING - SORTED BY SURFACE CODE

XLS FILE	UNIT	SURFACE	REASON	COUNT	MSRMNT	ALPHA	BETA
				TIME	LOCATION		
SME1B029.XLS	12	EQ1	C01	2	1	-0.8	-1.8
SME1B029.XLS	11	EQ1	C01	2	2	-0.8	8.3
SME1B029.XLS	11	EQ1	C01	2	1	2.1	-5.2
SME1B029.XLS	10	FL1	C01	2	3	-0.8	3.3
SME1B029.XLS	10	FL1	C01	2	2	-0.8	-3.5
SME1B029.XLS	10	FL1	C01	2	1	-0.8	6.6
SME1B029.XLS	10	EQ1	C01	2	3	-0.8	-5.2
SME1B029.XLS	10	EQ1	C01	2	2	-0.8	3.3
SME1B029.XLS	10	EQ1	C01	2	1	-0.8	-0.1
SME1B029.XLS	09	EQ1	C01	2	4	-0.8	-0.1
SME1B029.XLS	09	EQ1	C01	2	3	-0.8	-3.5
SME1B029.XLS	09	EQ1	C01	2	2	-0.8	-0.1
SME1B029.XLS	09	EQ1	C01	2	1	-0.8	-3.5
SME1B029.XLS	08	FL2	C01	2	2	-0.8	3.3
SME1B029.XLS	08	FL2	C01	2	1	-0.8	4.9
SME1B029.XLS	08	FL1	C01	2	2	-0.8	6.6
SME1B029.XLS	08	FL1	C01	2	1	-0.8	8.3
SME1B029.XLS	08	EQ1	C01	2	6	-0.8	6.6
SME1B029.XLS	08	EQ1	C01	2	5	-0.8	-5.2
SME1B029.XLS	08	EQ1	C01	2	4	0.7	-0.1
SME1B029.XLS	08	EQ1	C01	2	3	-0.8	3.3
SME1B029.XLS	08	EQ1	C01	2	2	-0.8	-1.8
SME1B029.XLS	08	EQ1	C01	2	1	-0.8	1.6
SME1B029.XLS	07	FL1	C01	2	3	-0.8	1.6
SME1B029.XLS	07	FL1	C01	2	2	0.7	-1.8
SME1B029.XLS	07	FL1	C01	2	1	-0.8	3.3
SME1B029.XLS	07	EQ1	C01	2	3	-0.8	8.3
SME1B029.XLS	07	EQ1	C01	2	2	-0.8	10.0
SME1B029.XLS	07	EQ1	C01	2	1	-0.8	-3.5
SME1B029.XLS	06	FL1	C01	2	3	-0.8	-6.8
SME1B029.XLS	06	FL1	C01	2	2	0.7	6.6
SME1B029.XLS	06	FL1	C01	2	1	-0.8	-0.1
SME1B029.XLS	06	EQ1	C01	2	6	-0.8	4.9
SME1B029.XLS	06	EQ1	C01	2	5	-0.8	-1.8
SME1B029.XLS	06	EQ1	C01	2	4	0.7	-3.5
SME1B029.XLS	06	EQ1	C01	2	3	-0.8	-1.8
SME1B029.XLS	06	EQ1	C01	2	2	-0.8	11.7
SME1B029.XLS	06	EQ1	C01	2	1	-0.8	4.9
SME1B029.XLS	05	FL1	C01	2	1	-0.8	-1.8
SME1B029.XLS	05	EQ1	C01	2	3	-0.8	1.6

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

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

03/24/98

Removable Contamination

Survey Package : B0500 SURFACES & STRUCTURES
 Condenser Bay - Elevation 21 ft.

RESULTS LISTING - SORTED BY SURFACE CODE

XLS FILE	UNIT	SURFACE	REASON	COUNT TIME	MSRMNT LOCATION	ALPHA	BETA
SME1B029.XLS	05	EQ1	C01	2	2	-0.8	6.6
SME1B029.XLS	05	EQ1	C01	2	1	-0.8	13.3
SME1B029.XLS	04	FL1	C01	2	3	-0.8	4.9
SME1B029.XLS	04	FL1	C01	2	2	-0.8	15.0
SME1B029.XLS	04	FL1	C01	2	1	-0.8	8.3
SME1B029.XLS	04	EQ1	C01	2	6	-0.8	-1.8
SME1B029.XLS	04	EQ1	C01	2	5	-0.8	6.6
SME1B029.XLS	04	EQ1	C01	2	4	-0.8	10.0
SME1B029.XLS	04	EQ1	C01	2	3	-0.8	8.3
SME1B029.XLS	04	EQ1	C01	2	2	-0.8	6.6
SME1B029.XLS	04	EQ1	C01	2	1	-0.8	1.6
SME1B029.XLS	03	FL1	C01	2	4	-0.8	1.6
SME1B029.XLS	03	FL1	C01	2	3	-0.8	-0.1
SME1B029.XLS	03	FL1	C01	2	2	-0.8	8.3
SME1B029.XLS	03	FL1	C01	2	1	0.7	-1.8
SME1B029.XLS	03	EQ1	C01	2	8	-0.8	-1.8
SME1B029.XLS	03	EQ1	C01	2	7	-0.8	-3.5
SME1B029.XLS	03	EQ1	C01	2	6	0.7	8.3
SME1B029.XLS	03	EQ1	C01	2	5	-0.8	1.6
SME1B029.XLS	03	EQ1	C01	2	4	-0.8	-3.5
SME1B029.XLS	03	EQ1	C01	2	3	-0.8	8.3
SME1B029.XLS	03	EQ1	C01	2	2	-0.8	1.6
SME1B029.XLS	03	EQ1	C01	2	1	0.7	1.6
SME1B029.XLS	02	FL1	C01	2	3	0.7	70.5
SME1B029.XLS	02	FL1	C01	2	2	-0.8	50.4
SME1B029.XLS	02	FL1	C01	2	1	2.1	4.9
SME1B029.XLS	02	EQ1	C01	2	4	-0.8	6.6
SME1B029.XLS	02	EQ1	C01	2	3	-0.8	16.7
SME1B029.XLS	02	EQ1	C01	2	2	-0.8	<u>203.5</u>
SME1B029.XLS	02	EQ1	C01	2	1	-0.8	-0.1
SME1B029.XLS	01	WS3	C01	2	5	-0.8	6.6
SME1B029.XLS	01	WS3	C01	2	4	-0.8	-3.5
SME1B029.XLS	01	WS3	C01	2	3	-0.8	-1.8
SME1B029.XLS	01	WS3	C01	2	2	-0.8	-1.8
SME1B029.XLS	01	WS3	C01	2	1	-0.8	-0.1
SME1B029.XLS	01	WS2	C01	2	8	0.7	-3.5
SME1B029.XLS	01	WS2	C01	2	7	-0.8	-5.2
SME1B029.XLS	01	WS2	C01	2	6	-0.8	3.3
SME1B029.XLS	01	WS2	C01	2	5	0.7	3.3
SME1B029.XLS	01	WS2	C01	2	4	-0.8	1.6

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

03/24/98

Removable Contamination

Survey Package : B0500 SURFACES & STRUCTURES
 Condenser Bay - Elevation 21 ft.

RESULTS LISTING - SORTED BY SURFACE CODE

XLS FILE	UNIT	SURFACE	REASON	COUNT	MSRMNT	ALPHA	BETA
				TIME	LOCATION		
SME1B029.XLS	01	WS2	C01	2	3	-0.8	-0.1
SME1B029.XLS	01	WS2	C01	2	2	-0.8	-3.5
SME1B029.XLS	01	WS2	C01	2	1	0.7	3.3
SME1B029.XLS	01	WS1	C01	2	9	0.7	-0.1
SME1B029.XLS	01	WS1	C01	2	8	-0.8	-3.5
SME1B029.XLS	01	WS1	C01	2	7	-0.8	-0.1
SME1B029.XLS	01	WS1	C01	2	6	2.1	-5.2
SME1B029.XLS	01	WS1	C01	2	5	0.7	-1.8
SME1B029.XLS	01	WS1	C01	2	4	-0.8	-3.5
SME1B029.XLS	01	WS1	C01	2	33	0.7	-3.5
SME1B029.XLS	01	WS1	C01	2	32	-0.8	-0.1
SME1B029.XLS	01	WS1	C01	2	31	-0.8	-3.5
SME1B029.XLS	01	WS1	C01	2	30	0.7	-1.8
SME1B029.XLS	01	WS1	C01	2	3	0.7	1.6
SME1B029.XLS	01	WS1	C01	2	29	-0.8	-3.5
SME1B029.XLS	01	WS1	C01	2	28	-0.8	-3.5
SME1B029.XLS	01	WS1	C01	2	27	0.7	1.6
SME1B029.XLS	01	WS1	C01	2	26	0.7	-1.8
SME1B029.XLS	01	WS1	C01	2	25	-0.8	-1.8
SME1B029.XLS	01	WS1	C01	2	24	-0.8	-1.8
SME1B029.XLS	01	WS1	C01	2	23	0.7	-1.8
SME1B029.XLS	01	WS1	C01	2	22	-0.8	1.6
SME1B029.XLS	01	WS1	C01	2	21	0.7	4.9
SME1B029.XLS	01	WS1	C01	2	20	-0.8	-5.2
SME1B029.XLS	01	WS1	C01	2	2	-0.8	3.3
SME1B029.XLS	01	WS1	C01	2	19	-0.8	-1.8
SME1B029.XLS	01	WS1	C01	2	18	-0.8	-5.2
SME1B029.XLS	01	WS1	C01	2	17	-0.8	-3.5
SME1B029.XLS	01	WS1	C01	2	16	0.7	-1.8
SME1B029.XLS	01	WS1	C01	2	15	-0.8	-5.2
SME1B029.XLS	01	WS1	C01	2	14	0.7	-1.8
SME1B029.XLS	01	WS1	C01	2	13	-0.8	-3.5
SME1B029.XLS	01	WS1	C01	2	12	-0.8	4.9
SME1B029.XLS	01	WS1	C01	2	11	-0.8	-3.5
SME1B029.XLS	01	WS1	C01	2	10	-0.8	-1.8
SME1B029.XLS	01	WS1	C01	2	1	-0.8	-3.5
SME1B029.XLS	01	SW6	C01	2	1	-0.8	-0.1
SME1B029.XLS	01	SW5	C01	2	1	0.7	-6.8
SME1B029.XLS	01	SW4	C01	2	1	-0.8	-0.1
SME1B029.XLS	01	SW3	C01	2	1	-0.8	-5.2

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

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

03/24/98

Removable Contamination

Survey Package : B0500 SURFACES & STRUCTURES
 Condenser Bay - Elevation 21 ft.

RESULTS LISTING - SORTED BY SURFACE CODE

XLS FILE	UNIT	SURFACE	REASON	COUNT TIME	MSRMNT LOCATION	ALPHA	BETA
SME1B029.XLS	01	SW2	C01	2	1	-0.8	6.6
SME1B029.XLS	01	SW1	C01	2	1	-0.8	4.9
SME1B029.XLS	01	FL2	C01	2	1	-0.8	4.9
SME1B029.XLS	01	FL1	C01	2	9	-0.8	-5.2
SME1B029.XLS	01	FL1	C01	2	8	-0.8	11.7
SME1B029.XLS	01	FL1	C01	2	7	0.7	4.9
SME1B029.XLS	01	FL1	C01	2	6	0.7	8.3
SME1B029.XLS	01	FL1	C01	2	5	-0.8	-3.5
SME1B029.XLS	01	FL1	C01	2	4	-0.8	-1.8
SME1B029.XLS	01	FL1	C01	2	3	-0.8	3.3
SME1B029.XLS	01	FL1	C01	2	2	-0.8	6.6
SME1B029.XLS	01	FL1	C01	2	15	0.7	3.3
SME1B029.XLS	01	FL1	C01	2	14	-0.8	-3.5
SME1B029.XLS	01	FL1	C01	2	13	0.7	-0.1
SME1B029.XLS	01	FL1	C01	2	12	-0.8	1.6
SME1B029.XLS	01	FL1	C01	2	11	2.1	1.6
SME1B029.XLS	01	FL1	C01	2	10	-0.8	4.9
SME1B029.XLS	01	FL1	C01	2	1	-0.8	3.3
SME1B029.XLS	01	EQ1	C01	2	9	0.7	18.4
SME1B029.XLS	01	EQ1	C01	2	8	-0.8	16.7
SME1B029.XLS	01	EQ1	C01	2	7	-0.8	15.0
SME1B029.XLS	01	EQ1	C01	2	6	-0.8	-1.8
SME1B029.XLS	01	EQ1	C01	2	5	-0.8	1.6
SME1B029.XLS	01	EQ1	C01	2	4	-0.8	-1.8
SME1B029.XLS	01	EQ1	C01	2	3	2.1	8.3
SME1B029.XLS	01	EQ1	C01	2	2	0.7	11.7
SME1B029.XLS	01	EQ1	C01	2	10	-0.8	6.6
SME1B029.XLS	01	EQ1	C01	2	1	0.7	6.6
SME1B030.XLS	01	CL2	C01	2	9	-0.8	6.6
SME1B030.XLS	01	CL2	C01	2	8	-0.8	-0.1
SME1B030.XLS	01	CL2	C01	2	7	-0.8	6.6
SME1B030.XLS	01	CL2	C01	2	6	-0.8	6.6
SME1B030.XLS	01	CL2	C01	2	5	-0.8	-0.1
SME1B030.XLS	01	CL2	C01	2	4	-0.8	-1.8
SME1B030.XLS	01	CL2	C01	2	3	0.7	1.6
SME1B030.XLS	01	CL2	C01	2	2	0.7	1.6
SME1B030.XLS	01	CL2	C01	2	10	-0.8	3.3
SME1B030.XLS	01	CL2	C01	2	1	2.1	-5.2
SME1B029.XLS	01	CL1	C01	2	9	-0.8	-5.2
SME1B029.XLS	01	CL1	C01	2	8	-0.8	3.3

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

03/24/98

Removable Contamination

Survey Package : B0500 SURFACES & STRUCTURES
 Condenser Bay - Elevation 21 ft.

RESULTS LISTING - SORTED BY SURFACE CODE

XLS FILE	UNIT	SURFACE	REASON	COUNT	MSRMNT	ALPHA	BETA
				TIME	LOCATION		
SME1B029.XLS	01	CL1	C01	2	7	0.7	3.3
SME1B029.XLS	01	CL1	C01	2	6	-0.8	-1.8
SME1B029.XLS	01	CL1	C01	2	5	-0.8	-0.1
SME1B029.XLS	01	CL1	C01	2	4	-0.8	-0.1
SME1B029.XLS	01	CL1	C01	2	3	-0.8	1.6
SME1B029.XLS	01	CL1	C01	2	2	-0.8	1.6
SME1B029.XLS	01	CL1	C01	2	15	-0.8	10.0
SME1B029.XLS	01	CL1	C01	2	14	0.7	1.6
SME1B029.XLS	01	CL1	C01	2	13	0.7	4.9
SME1B029.XLS	01	CL1	C01	2	12	0.7	-0.1
SME1B029.XLS	01	CL1	C01	2	11	0.7	11.7
SME1B029.XLS	01	CL1	C01	2	10	-0.8	-1.8
SME1B029.XLS	01	CL1	C01	2	1	0.7	-3.5

NOTES: Activity reported in net dpm/100 cm². Count times are reported in minutes.
 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).
 213 results are listed.



Maine Yankee Atomic Power Plant Site Characterization

DATAFILE & TENNELEC CALIBRATION SUMMARY

03/24/98

Removable Contamination

Survey Package : B0500 SURFACES & STRUCTURES
Condenser Bay - Elevation 21 ft.

SURVEYDATE	XLS FILE	INST ID	S/N	CAL DUE	LAB TECHNICIAN
2/9/98	SME1B029.XLS	1	14131	8/7/98	SNM
CALIBRATION DATE VERIFIED AS ACCEPTABLE					
2/10/98	SME1B030.XLS	1	14131	8/7/98	SNM
CALIBRATION DATE VERIFIED AS ACCEPTABLE					



Maine Yankee Atomic Power Plant Site Characterization

03/24/98

Gamma Exposure Rate Measurements At 1 Meter

Survey Package B0500 SURFACES & STRUCTURES
Condenser Bay - Elevation 21 ft.

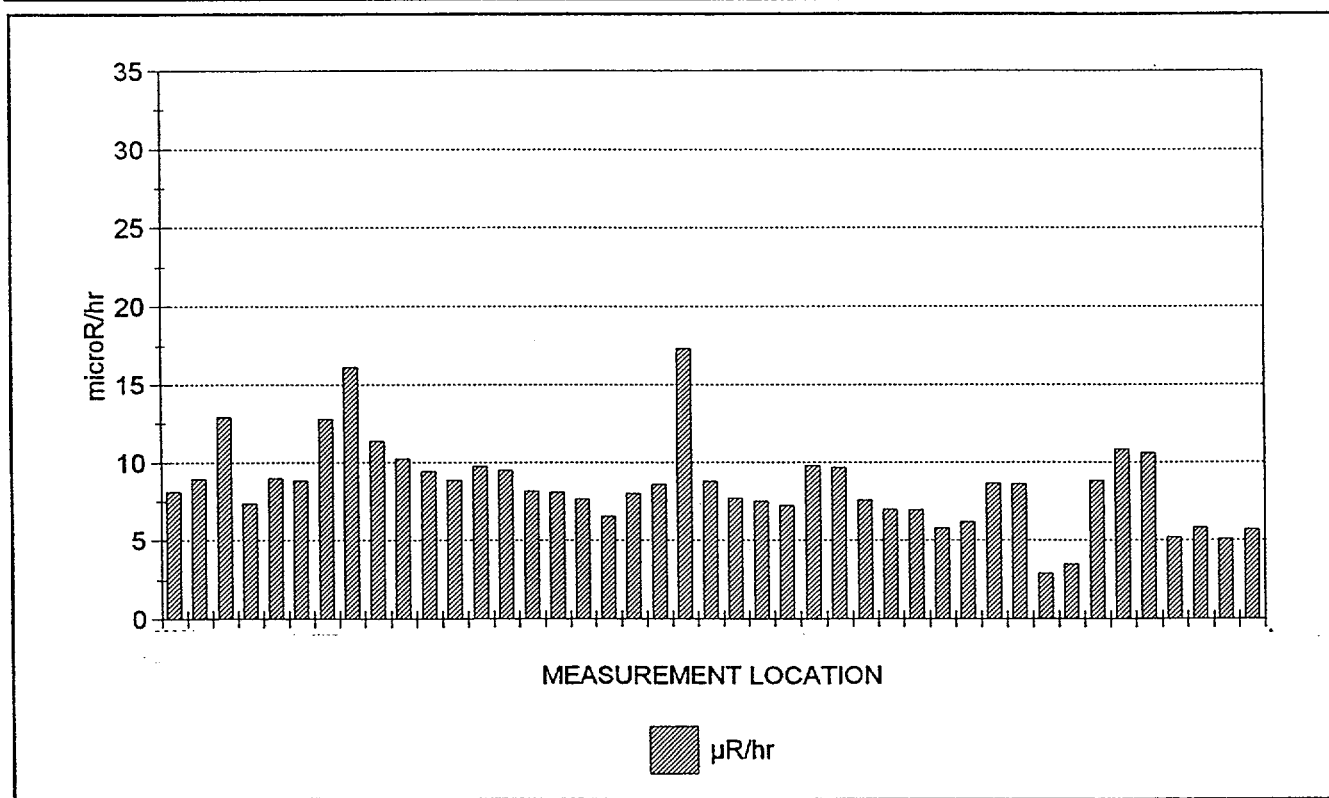
STATISTICAL SUMMARY

TESTS PERFORMED

	$\mu\text{R/hr}$
Mean	8.6
Maximum	17.3
Minimum	2.9
Standard Deviation	2.8

Samples reported satisfy samples prescribed	YES
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Samples Reported	43
Samples Prescribed	43



43 RESULTS ARE GRAPHED



Maine Yankee Atomic Power Plant Site Characterization

03/24/98

Gamma Exposure Rate Measurements At 1 Meter

Survey Package : B0500 SURFACES & STRUCTURES
 Condenser Bay - Elevation 21 ft.

RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	RESULT
447 (2)	01	FL1	B0001	C01	60.00	00001	8.1
447 (2)	01	FL1	B0001	C01	60.00	00002	9.0
447 (2)	01	FL1	B0001	C01	60.00	00003	12.9
447 (2)	01	FL1	B0001	C01	60.00	00004	7.3
447 (2)	01	FL1	B0001	C01	60.00	00005	9.0
447 (2)	01	FL1	B0001	C01	60.00	00006	8.8
447 (2)	01	FL1	B0001	C01	60.00	00007	12.8
447 (2)	01	FL1	B0001	C01	60.00	00008	16.1
447 (2)	01	FL1	B0001	C01	60.00	00009	11.3
447 (2)	01	FL1	B0001	C01	60.00	00010	10.2
447 (2)	01	FL1	B0001	C01	60.00	00011	9.4
447 (2)	01	FL1	B0001	C01	60.00	00012	8.9
447 (2)	01	FL1	B0001	C01	60.00	00013	9.7
447 (2)	01	FL1	B0001	C01	60.00	00014	9.5
447 (2)	01	FL1	B0001	C01	60.00	00015	8.2
447 (2)	02	FL1	B0001	C01	60.00	00001	8.1
447 (2)	02	FL1	B0001	C01	60.00	00002	7.6
447 (2)	02	FL1	B0001	C01	60.00	00003	6.5
447 (2)	03	FL1	B0001	C01	60.00	00001	8.0
447 (2)	03	FL1	B0001	C01	60.00	00002	8.6
447 (2)	03	FL1	B0001	C01	60.00	00003	17.3

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

03/24/98

Gamma Exposure Rate Measurements At 1 Meter

Survey Package : B0500 SURFACES & STRUCTURES
 Condenser Bay - Elevation 21 ft.

RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	RESULT
447 (2)	03	FL1	B0001	C01	60.00	00004	8.8
447 (2)	04	FL1	B0001	C01	60.00	00001	7.7
447 (2)	04	FL1	B0001	C01	60.00	00002	7.5
447 (2)	04	FL1	B0001	C01	60.00	00003	7.2
447 (2)	05	FL1	B0001	C01	60.00	00001	9.8
447 (2)	06	FL1	B0001	C01	60.00	00001	9.7
447 (2)	06	FL1	B0001	C01	60.00	00002	7.6
447 (2)	06	FL1	B0001	C01	60.00	00003	7.0
447 (2)	07	FL1	B0001	C01	60.00	00001	7.0
447 (2)	07	FL1	B0001	C01	60.00	00002	5.8
447 (2)	07	FL1	B0001	C01	60.00	00003	6.2
447 (2)	08	FL1	B0001	C01	60.00	00001	8.7
447 (2)	08	FL1	B0001	C01	60.00	00002	8.7
447 (2)	08	FL2	B0001	C01	60.00	00001	2.9
447 (2)	08	FL2	B0001	C01	60.00	00002	3.5
447 (2)	10	FL1	B0001	C01	60.00	00001	8.9
447 (2)	10	FL1	B0001	C01	60.00	00002	10.8
447 (2)	10	FL1	B0001	C01	60.00	00003	10.6
447 (2)	19	FL1	B0001	C01	60.00	00001	5.2
447 (2)	19	FL2	B0001	C01	60.00	00001	5.8
447 (2)	19	FL3	B0001	C01	60.00	00001	5.1
447 (2)	19	FL4	B0001	C01	60.00	00001	5.7

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.
 43 results are listed.



Maine Yankee Atomic Power Plant Site Characterization

DOWNLOAD FILE & SURVEY INSTRUMENTATION CALIBRATION SUMMARY

03/24/98

Gamma Exposure Rate Measurements At 1 Meter

Survey Package : B0500 SURFACES & STRUCTURES
 Condenser Bay - Elevation 21 ft.

SURVEY DATE	FILE #	M2350		DETECTOR			TECHNICIAN
		INST S/N	CAL DUE	MODEL	S/N	CAL DUE	
1/20/98	447 (2)	126196	4/15/98	44-2	095100	4/19/98	DJH2236

CALIBRATION DATES VERIFIED AS ACCEPTABLE



Maine Yankee Atomic Power Plant Site Characterization

04/27/98

CHARACTERIZATION SUMMARY

SURVEY PACKAGE NUMBER :B0600

SURFACES & STRUCTURES

PACKAGE DESCRIPTION

Condenser Bay - Elevation 39 ft.

SURVEY AREA DESCRIPTION

Condenser Bay 39'

GENERAL HISTORICAL INFORMATION (Operational history, etc.)

The Condenser Bay (39') is on the Mezzanine level of the Turbine Building. It was constructed in 1968. The floor construction is mostly made of grated steel with small areas of concrete. The walls are made of painted concrete block and steel. The ceiling is made of corrugated steel. At the South end is the tool storage, rigging storage, and insulator fab shop. There are histories of primary to secondary leaks, therefore, there is a possibility of some isolated contaminated areas. There are chemical sample hoods with exhaust filters and they are posted to be potentially contaminated inside. Air ejectors are posted as a Radiation Area.

SUMMARY OF CHARACTERIZATION ACTIVITIES

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

Performed a scan of approximately five square meters at 205 survey measurement locations indicated on the survey map(s). This was approximately 10% of the accessible surface area.

Collected direct measurements for total beta activity at 205 survey measurement locations at the highest location identified in the scan. If an elevated location was not observed, the measurement was collected at an arbitrary location, selected by the technician, within the five square meter scanned area.

Collected smear samples to analyze for removable alpha and beta activity at 207 survey locations including those of direct measurements for total beta activity.

Collected 66 one meter gamma exposure rate measurements at each survey location for direct measurements for total beta activity on floor surfaces.

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

CHARACTERIZATION SURVEY RESULTS

- o There were 10 direct measurements for total beta activity above MDA (603 dpm/100cm²) and 1 result greater than 2000 dpm/100cm². The maximum measurement result was 2,031 dpm/100cm².
- o There were 4 measurements for removable beta activity above MDA (17.3 dpm/100cm²) and no result greater than 100 dpm/100cm². The maximum measurement result was 30 dpm/100cm².
- o There were no measurements for removable alpha activity above MDA (7.3 dpm/100cm²).
- o The average and maximum one meter exposure rate measurement results were 6.3 µR/hr and 13.7 µR/hr respectively.

REFERENCES (Documents, Interviews)



Maine Yankee Atomic Power Plant Site Characterization

SUMMARY OF SURVEY UNIT(S)

03/24/98

OUTPUT BATCH SN = 224

PACKAGE B0600 SURFACES & STRUCTURES
 Condenser Bay - Elevation 39 ft.

UNIT(S)	SURFACE(S)
01 - Condenser Bay - general area	CL1 (Ceiling) CL2 (Ceiling: Horizontal Support Beams) EQ1 (Equipment: Turbine Building 36' -located on the north side) EQ2 (Equipment: Control/circuit/fan Area -located on the western side (midway)) EQ3 (Equipment: Steam Pipe Area -located on the west side corner) EQ4 (Equipment: Feed Water Heater -located at the center of the floor) EQ5 (Equipment: Turbine Bldg Central Area -located near the southeast corner) EQ6 (Equipment: Storage Cage/Domestic Water Tank -located on the southeast corner) EQ7 (Equipment: Main Condenser -located on the west side (midway)) EQ8 (Equipment: Overhead piping, ducts, cable trays, etc.) FL1 (Floor: Turbine Building 36' -North side section) FL2 (Floor: Turbine Building 39' -general) SW1 (General) WS1 (Walls: North side of the Turbine Building 39') WS2 (Walls: East side of the Turbine Building 39') WS3 (Walls: South side of the Turbine Building 39') WS4 (Walls: West side of the Turbine Building 39')
02 - Turbine Building 46' (3rd floor)	FL1 (Floor: Turbine Building 46' (3rd floor) -northwest corner) SW1 (Stairway to the Turbine Deck 61')
03 - Office (GTS Temporary Office)	CL1 (Ceiling: Office (GTS Temp Office) -located west side of the Turbine Building) FL1 (Floor: Office (GTS Temp Office) -located west side of the Turbine Building) WS1 (Walls: Office (GTS Temp Office) -located west side of the Turbine Building)
04 - Battery Room	CL1 (Ceiling) FL1 (Floor) WS1 (Walls)

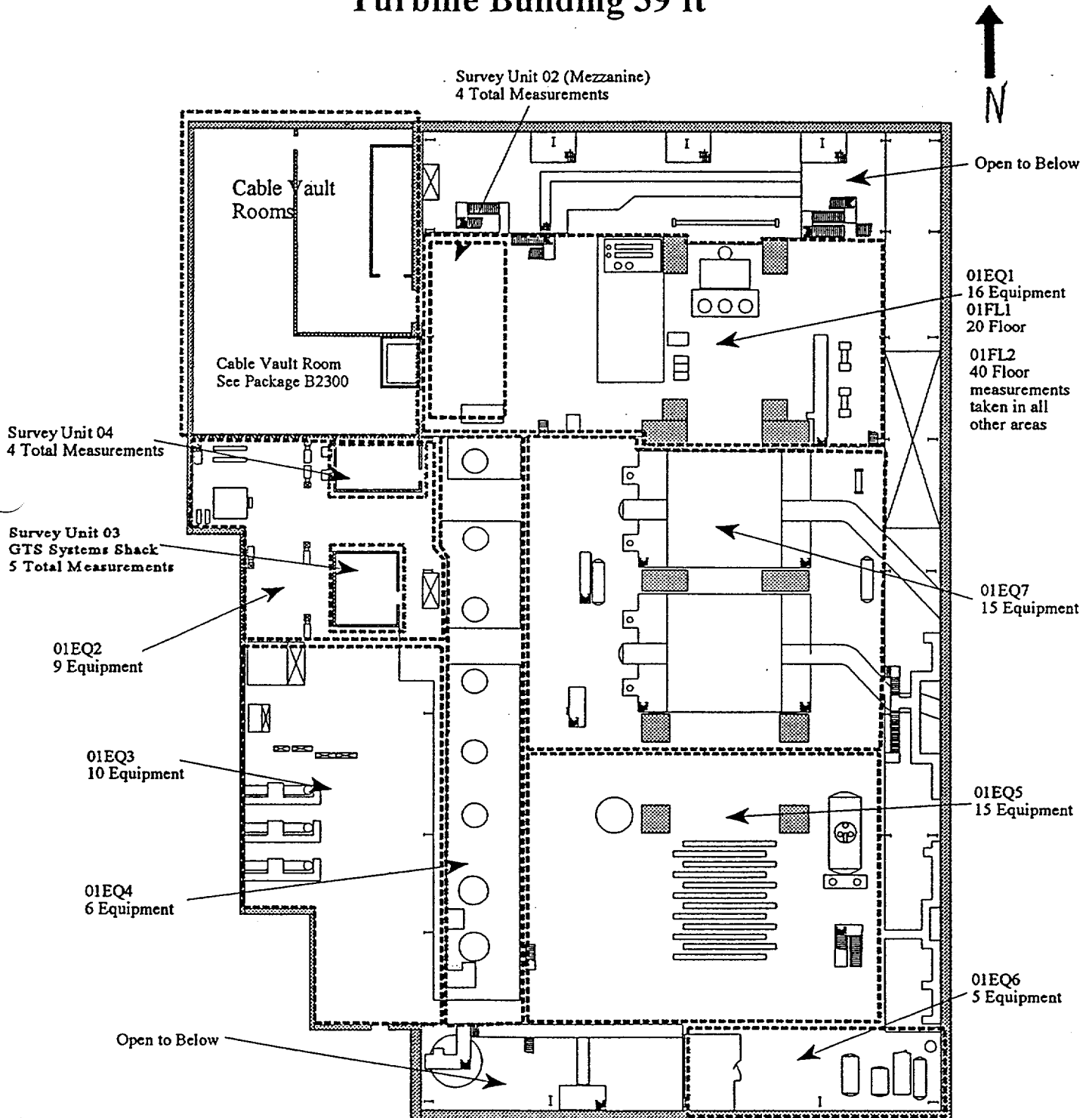
REASON(S) CHARACTERIZATION SURVEY (C01)

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

Maine Yankee Atomic Power Plant Site Characterization

SURVEY PACKAGE B0600

Turbine Building 39 ft





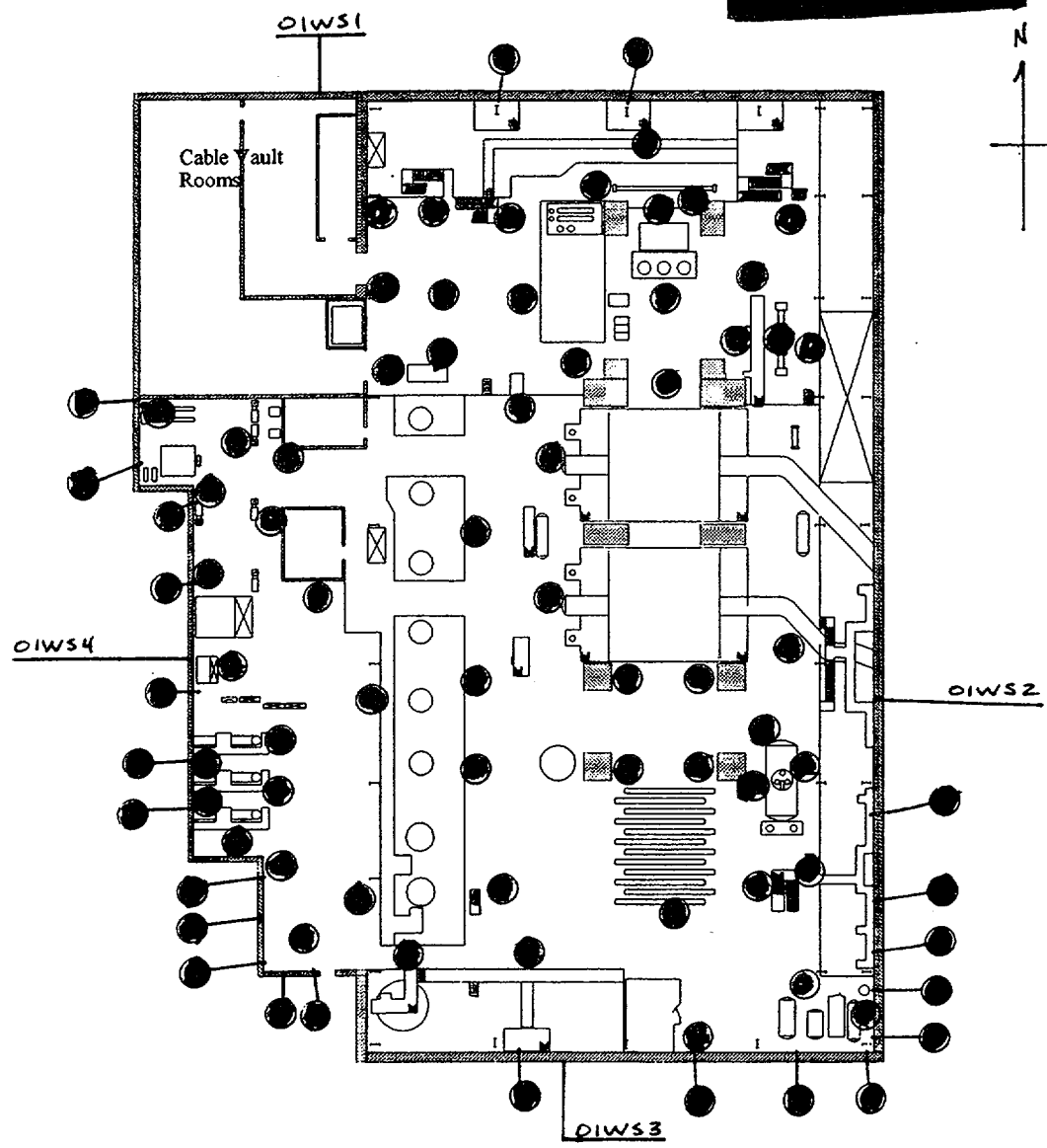
Maine Yankee Atomic Power Plant Site Characterization

SURVEY PACKAGE B0600

B0600



Turbine Building 39 ft





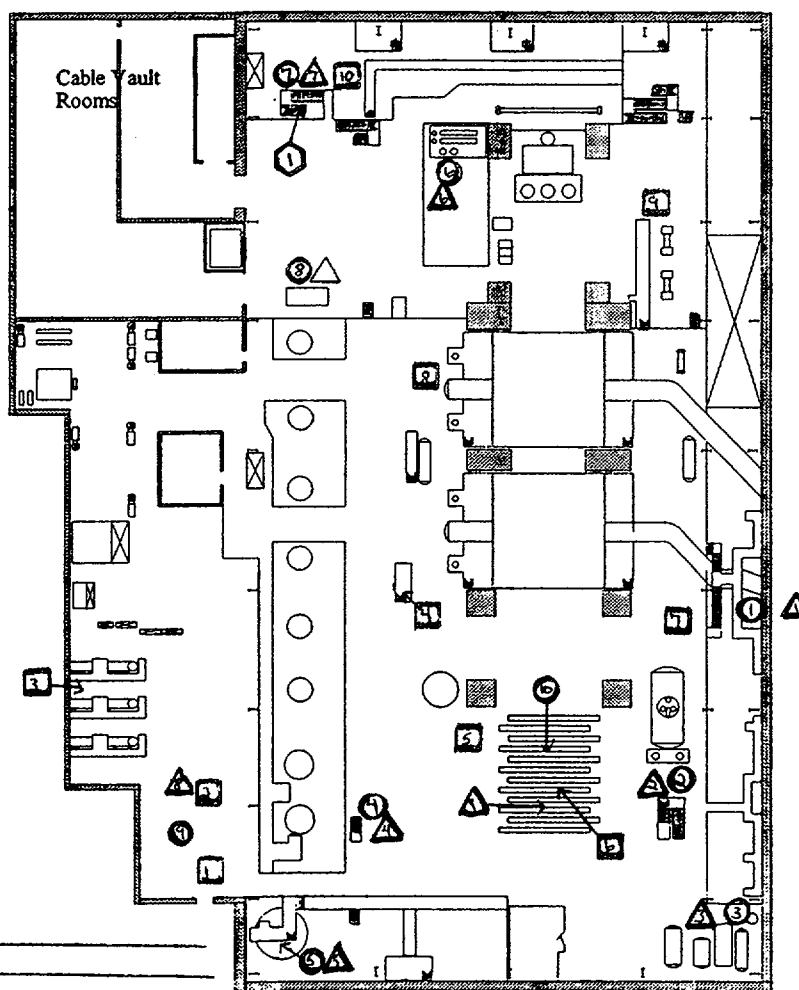
Maine Yankee Atomic Power Plant Site Characterization

SURVEY PACKAGE B0600

Turbine Building 39 ft



Package B0600



- ⊖ - 01CL1
- ▲ - 01CL2
- ⊖ - 01EQ8
- ⊖ - 02SW1



Maine Yankee Atomic Power Plant Site Characterization

03/26/98

Direct Measurements For Total Beta Activity

Survey Package B0600 SURFACES & STRUCTURES
Condenser Bay - Elevation 39 ft.

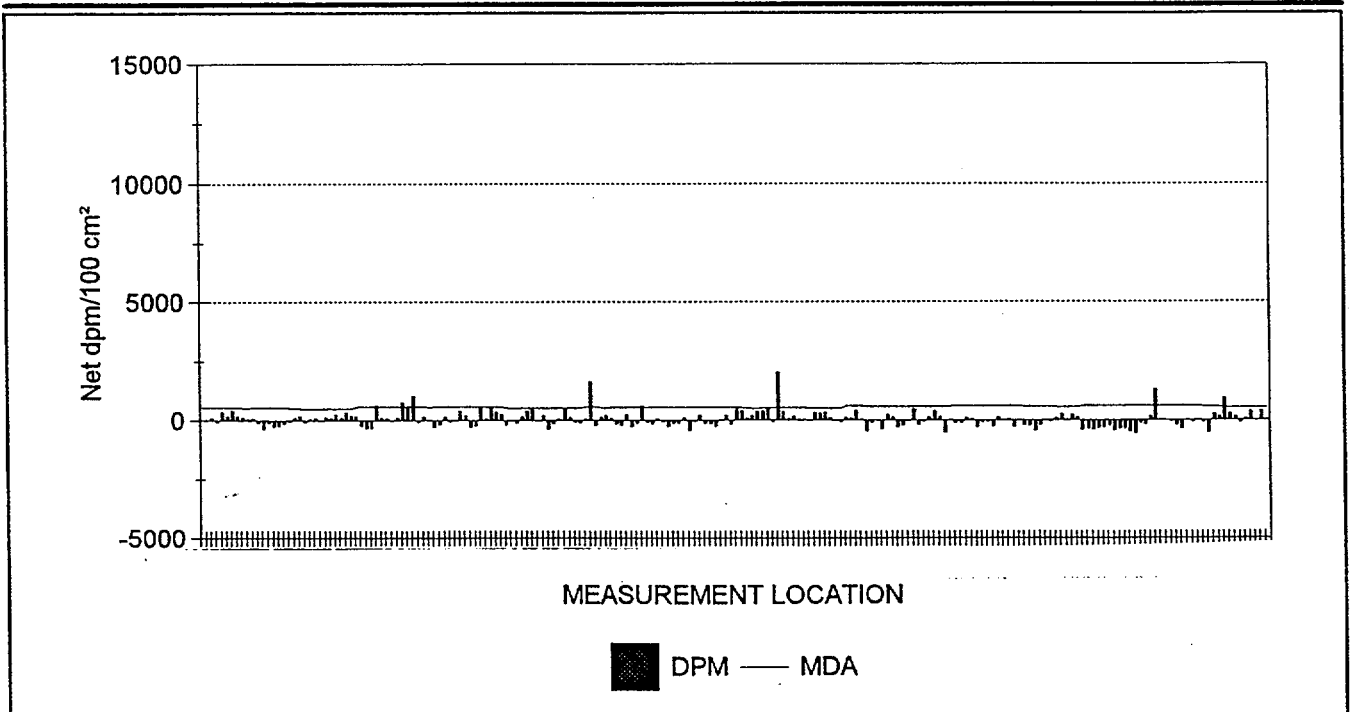
STATISTICAL SUMMARY

TESTS PERFORMED

	Net dpm/100 cm ²
Mean	48.2
Maximum	2,031.4
Minimum	-578.9
Standard Deviation	332.9
MDA	603.0

Samples reported satisfy samples prescribed	YES
MDA <2000 net dpm/100 cm ²	YES
Results above 2000 net dpm/100 cm ²	1
Number of results above MDA	10

Samples Reported	205
Samples Prescribed	205



205 RESULTS ARE GRAPHED



Maine Yankee Atomic Power Plant Site Characterization

03/26/98

Direct Measurements For Total Beta Activity

Survey Package : B0600 SURFACES & STRUCTURES
Condenser Bay - Elevation 39 ft.

RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	MDA	RESULT
437 (2)	01	CL1	B9999	C01	10	00001	559.3	28.8
437 (2)	01	CL1	B9999	C01	10	00002	559.3	28.8
437 (2)	01	CL1	B9999	C01	10	00003	559.3	98.0
437 (2)	01	CL1	B9999	C01	10	00004	559.3	-86.5
437 (2)	01	CL1	B9999	C01	10	00005	559.3	374.7
437 (2)	01	CL1	B9999	C01	10	00006	559.3	190.3
437 (2)	01	CL1	B9999	C01	10	00007	559.3	420.9
437 (2)	01	CL1	B9999	C01	10	00008	559.3	190.3
451 (2)	01	CL1	B9999	C01	10	00009	509.0	124.4
451 (2)	01	CL1	B9999	C01	10	00010	509.0	56.1
437 (2)	01	CL2	B9999	C01	10	00001	559.3	74.9
437 (2)	01	CL2	B9999	C01	10	00002	559.3	-109.5
437 (2)	01	CL2	B9999	C01	10	00003	559.3	-363.2
437 (2)	01	CL2	B9999	C01	10	00004	559.3	-109.5
437 (2)	01	CL2	B9999	C01	10	00005	559.3	-247.9
437 (2)	01	CL2	B9999	C01	10	00006	559.3	-224.8
437 (2)	01	CL2	B9999	C01	10	00007	559.3	-132.6
451 (2)	01	CL2	B9999	C01	10	00008	509.0	-57.8
451 (2)	01	CL2	B9999	C01	10	00009	509.0	101.6
381 (2)	01	EQ1	B9999	C01	10	00001	505.1	191.1
381 (2)	01	EQ1	B9999	C01	10	00002	505.1	-79.2
381 (2)	01	EQ1	B9999	C01	10	00003	505.1	43.7
381 (2)	01	EQ1	B9999	C01	10	00004	505.1	92.8
381 (2)	01	EQ1	B9999	C01	10	00005	505.1	-30.0
381 (2)	01	EQ1	B9999	C01	10	00006	505.1	142.0
381 (2)	01	EQ1	B9999	C01	10	00007	505.1	92.8
381 (2)	01	EQ1	B9999	C01	10	00008	505.1	264.8
381 (2)	01	EQ1	B9999	C01	10	00009	505.1	92.8
381 (2)	01	EQ1	B9999	C01	10	00010	505.1	338.5
381 (2)	01	EQ1	B9999	C01	10	00011	505.1	215.7
392 (2)	01	EQ1	B9999	C01	10	00012	584.3	193.3
392 (2)	01	EQ1	B9999	C01	10	00013	584.3	-221.5
392 (2)	01	EQ1	B9999	C01	10	00014	584.3	-336.7
392 (2)	01	EQ1	B9999	C01	10	00015	584.3	-336.7
394 (2)	01	EQ2	B9999	C01	10	00001	569.1	<u>631.2</u>
394 (2)	01	EQ2	B9999	C01	10	00002	569.1	105.7
394 (2)	01	EQ2	B9999	C01	10	00003	569.1	80.6
394 (2)	01	EQ2	B9999	C01	10	00004	569.1	-19.5
394 (2)	01	EQ2	B9999	C01	10	00005	569.1	105.7
394 (2)	01	EQ2	B9999	C01	10	00006	569.1	<u>756.3</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

03/26/98

Direct Measurements For Total Beta Activity

Survey Package : B0600 SURFACES & STRUCTURES
Condenser Bay - Elevation 39 ft.

RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	MDA	RESULT
394 (2)	01	EQ2	B9999	C01	10	00007	569.1	<u>606.2</u>
394 (2)	01	EQ2	B9999	C01	10	00008	569.1	<u>1,006.6</u>
394 (2)	01	EQ2	B9999	C01	10	00009	569.1	-69.5
392 (2)	01	EQ3	B9999	C01	10	00001	584.3	147.2
427 (2)	01	EQ3	B9999	C01	10	00002	538.7	18.8
392 (2)	01	EQ3	B9999	C01	10	00003	584.3	-290.6
392 (2)	01	EQ3	B9999	C01	10	00004	584.3	-175.4
392 (2)	01	EQ3	B9999	C01	10	00005	584.3	147.2
392 (2)	01	EQ3	B9999	C01	10	00006	584.3	-60.2
392 (2)	01	EQ3	B9999	C01	10	00007	584.3	-37.1
392 (2)	01	EQ3	B9999	C01	10	00008	584.3	377.7
392 (2)	01	EQ3	B9999	C01	10	00009	584.3	216.4
392 (2)	01	EQ3	B9999	C01	10	00010	584.3	-290.6
392 (2)	01	EQ4	B9999	C01	10	00001	584.3	-244.5
392 (2)	01	EQ4	B9999	C01	10	00002	584.3	<u>585.1</u>
392 (2)	01	EQ4	B9999	C01	10	00003	584.3	55.1
392 (2)	01	EQ4	B9999	C01	10	00004	584.3	562.1
392 (2)	01	EQ4	B9999	C01	10	00005	584.3	354.6
392 (2)	01	EQ4	B9999	C01	10	00006	584.3	262.5
414 (2)	01	EQ5	B9999	C01	10	00001	528.5	-183.9
414 (2)	01	EQ5	B9999	C01	10	00002	528.5	-35.1
414 (2)	01	EQ5	B9999	C01	10	00003	528.5	-109.5
414 (2)	01	EQ5	B9999	C01	10	00004	528.5	163.2
414 (2)	01	EQ5	B9999	C01	10	00005	528.5	386.3
414 (2)	01	EQ5	B9999	C01	10	00006	528.5	435.9
414 (2)	01	EQ5	B9999	C01	10	00007	528.5	-10.3
414 (2)	01	EQ5	B9999	C01	10	00008	528.5	212.8
414 (2)	01	EQ5	B9999	C01	10	00009	528.5	-357.4
414 (2)	01	EQ5	B9999	C01	10	00010	528.5	-134.3
414 (2)	01	EQ5	B9999	C01	10	00011	528.5	64.0
414 (2)	01	EQ5	B9999	C01	10	00012	528.5	485.5
414 (2)	01	EQ5	B9999	C01	10	00013	528.5	138.4
414 (2)	01	EQ5	B9999	C01	10	00014	528.5	-84.7
414 (2)	01	EQ5	B9999	C01	10	00015	528.5	-109.5
394 (2)	01	EQ6	B9999	C01	10	00001	569.1	55.6
394 (2)	01	EQ6	B9999	C01	10	00002	569.1	<u>1,632.2</u>
394 (2)	01	EQ6	B9999	C01	10	00003	569.1	-219.7
414 (2)	01	EQ6	B9999	C01	10	00004	528.5	138.4
414 (2)	01	EQ6	B9999	C01	10	00005	528.5	212.8
427 (2)	01	EQ7	B9999	C01	10	00001	538.7	67.3

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



Maine Yankee Atomic Power Plant Site Characterization

03/26/98

Direct Measurements For Total Beta Activity

Survey Package : B0600 SURFACES & STRUCTURES
Condenser Bay - Elevation 39 ft.

RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	MDA	RESULT
427 (2)	01	EQ7	B9999	C01	10	00002	538.7	-150.7
427 (2)	01	EQ7	B9999	C01	10	00003	538.7	-199.1
427 (2)	01	EQ7	B9999	C01	10	00004	538.7	236.8
427 (2)	01	EQ7	B9999	C01	10	00005	538.7	-271.7
427 (2)	01	EQ7	B9999	C01	10	00006	538.7	-126.5
427 (2)	01	EQ7	B9999	C01	10	00007	538.7	<u>600.0</u>
427 (2)	01	EQ7	B9999	C01	10	00008	538.7	-78.0
427 (2)	01	EQ7	B9999	C01	10	00009	538.7	-150.7
427 (2)	01	EQ7	B9999	C01	10	00010	538.7	43.0
427 (2)	01	EQ7	B9999	C01	10	00011	538.7	-53.8
427 (2)	01	EQ7	B9999	C01	10	00012	538.7	-271.7
427 (2)	01	EQ7	B9999	C01	10	00013	538.7	-126.5
427 (2)	01	EQ7	B9999	C01	10	00014	538.7	-126.5
427 (2)	01	EQ7	B9999	C01	10	00015	538.7	115.7
437 (2)	01	EQ8	B9999	C01	10	00001	559.3	-455.5
437 (2)	01	EQ8	B9999	C01	10	00002	559.3	-40.4
437 (2)	01	EQ8	B9999	C01	10	00003	559.3	213.3
437 (2)	01	EQ8	B9999	C01	10	00004	559.3	-132.6
437 (2)	01	EQ8	B9999	C01	10	00005	559.3	-155.7
437 (2)	01	EQ8	B9999	C01	10	00006	559.3	-271.0
437 (2)	01	EQ8	B9999	C01	10	00007	559.3	5.8
437 (2)	01	EQ8	B9999	C01	10	00008	559.3	213.3
437 (2)	01	EQ8	B9999	C01	10	00009	559.3	-178.7
437 (2)	01	EQ8	B9999	C01	10	00010	559.3	467.0
368 (2)	01	FL1	B0001	C01	10	00010	526.8	401.7
368 (2)	01	FL1	B0001	C01	10	00011	526.8	89.8
381 (2)	01	FL1	B0001	C01	10	00015	505.1	179.9
381 (2)	01	FL1	B0001	C01	10	00020	505.1	376.5
368 (2)	01	FL1	B9999	C01	10	00001	526.8	399.9
368 (2)	01	FL1	B9999	C01	10	00002	526.8	495.9
368 (2)	01	FL1	B9999	C01	10	00003	526.8	-80.0
368 (2)	01	FL1	B9999	C01	10	00004	526.8	<u>2,031.4</u>
368 (2)	01	FL1	B9999	C01	10	00005	526.8	351.9
368 (2)	01	FL1	B9999	C01	10	00006	526.8	64.0
368 (2)	01	FL1	B9999	C01	10	00007	526.8	160.0
368 (2)	01	FL1	B9999	C01	10	00008	526.8	16.0
368 (2)	01	FL1	B9999	C01	10	00009	526.8	16.0
381 (2)	01	FL1	B9999	C01	10	00012	505.1	-30.0
381 (2)	01	FL1	B9999	C01	10	00013	505.1	313.9
381 (2)	01	FL1	B9999	C01	10	00014	505.1	289.4

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

03/26/98

Direct Measurements For Total Beta Activity

Survey Package : B0600 SURFACES & STRUCTURES
 Condenser Bay - Elevation 39 ft.

RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	MDA	RESULT
381 (2)	01	FL1	B9999	C01	10	00016	505.1	338.5
381 (2)	01	FL1	B9999	C01	10	00017	505.1	92.8
381 (2)	01	FL1	B9999	C01	10	00018	505.1	-30.0
381 (2)	01	FL1	B9999	C01	10	00019	505.1	-79.2
367 (2)	01	FL2	B0001	C01	10	00001	603.0	96.9
367 (2)	01	FL2	B0001	C01	10	00002	603.0	72.6
367 (2)	01	FL2	B0001	C01	10	00003	603.0	413.9
367 (2)	01	FL2	B0001	C01	10	00006	603.0	48.2
421 (2)	01	FL2	B0001	C01	10	00025	577.3	-460.3
421 (2)	01	FL2	B0001	C01	10	00026	577.3	-92.0
421 (2)	01	FL2	B0001	C01	10	00027	577.3	6.2
421 (2)	01	FL2	B0001	C01	10	00028	577.3	-362.1
421 (2)	01	FL2	B0001	C01	10	00029	577.3	227.2
421 (2)	01	FL2	B0001	C01	10	00030	577.3	129.0
421 (2)	01	FL2	B0001	C01	10	00031	577.3	-288.4
421 (2)	01	FL2	B0001	C01	10	00032	577.3	-214.8
421 (2)	01	FL2	B0001	C01	10	00033	577.3	6.2
421 (2)	01	FL2	B0001	C01	10	00034	577.3	472.7
421 (2)	01	FL2	B0001	C01	10	00035	577.3	-190.2
421 (2)	01	FL2	B0001	C01	10	00036	577.3	-42.9
421 (2)	01	FL2	B0001	C01	10	00037	577.3	129.0
421 (2)	01	FL2	B0001	C01	10	00038	577.3	399.0
421 (2)	01	FL2	B0001	C01	10	00039	577.3	153.5
421 (2)	01	FL2	B0001	C01	10	00040	577.3	-509.4
367 (2)	01	FL2	B9999	C01	10	00004	603.0	14.2
367 (2)	01	FL2	B9999	C01	10	00005	603.0	-107.7
374 (2)	01	FL2	B9999	C01	10	00007	588.3	-103.7
374 (2)	01	FL2	B9999	C01	10	00008	588.3	91.5
374 (2)	01	FL2	B9999	C01	10	00009	588.3	42.7
374 (2)	01	FL2	B9999	C01	10	00010	588.3	-274.6
374 (2)	01	FL2	B9999	C01	10	00011	588.3	-79.3
374 (2)	01	FL2	B9999	C01	10	00012	588.3	-54.9
374 (2)	01	FL2	B9999	C01	10	00013	588.3	-250.1
374 (2)	01	FL2	B9999	C01	10	00014	588.3	140.3
374 (2)	01	FL2	B9999	C01	10	00015	588.3	18.3
374 (2)	01	FL2	B9999	C01	10	00016	588.3	42.7
374 (2)	01	FL2	B9999	C01	10	00017	588.3	-274.6
374 (2)	01	FL2	B9999	C01	10	00018	588.3	-6.1
421 (2)	01	FL2	B9999	C01	10	00019	577.3	-203.2
421 (2)	01	FL2	B9999	C01	10	00020	577.3	-227.8

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

03/26/98

Direct Measurements For Total Beta Activity

Survey Package : B0600 SURFACES & STRUCTURES
 Condenser Bay - Elevation 39 ft.

RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	MDA	RESULT
421 (2)	01	FL2	B9999	C01	10	00021	577.3	-448.7
421 (2)	01	FL2	B9999	C01	10	00022	577.3	-203.2
421 (2)	01	FL2	B9999	C01	10	00023	577.3	-6.8
421 (2)	01	FL2	B9999	C01	10	00024	577.3	-55.9
427 (2)	01	SW1	B9999	C01	10	00001	538.7	67.3
427 (2)	01	SW1	B9999	C01	10	00002	538.7	261.0
427 (2)	01	SW1	B9999	C01	10	00003	538.7	18.8
427 (2)	01	SW1	B9999	C01	10	00004	538.7	236.8
427 (2)	01	SW1	B9999	C01	10	00005	538.7	139.9
434 (2)	01	WS1	B9999	C01	10	00001	598.4	-420.4
434 (2)	01	WS1	B9999	C01	10	00002	598.4	-375.1
434 (2)	01	WS2	B9999	C01	10	00001	598.4	-420.4
434 (2)	01	WS2	B9999	C01	10	00002	598.4	-329.9
434 (2)	01	WS2	B9999	C01	10	00003	598.4	-307.2
434 (2)	01	WS2	B9999	C01	10	00004	598.4	-239.3
434 (2)	01	WS2	B9999	C01	10	00005	598.4	-443.0
434 (2)	01	WS3	B9999	C01	10	00001	598.4	-375.1
434 (2)	01	WS3	B9999	C01	10	00002	598.4	-352.5
434 (2)	01	WS3	B9999	C01	10	00003	598.4	-488.3
434 (2)	01	WS3	B9999	C01	10	00004	598.4	-578.9
434 (2)	01	WS3	B9999	C01	10	00005	598.4	-126.1
434 (2)	01	WS3	B9999	C01	10	00006	598.4	-194.0

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

03/26/98

Direct Measurements For Total Beta Activity

Survey Package : B0600 SURFACES & STRUCTURES
 Condenser Bay - Elevation 39 ft.

RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	MDA	RESULT
434 (2)	01	WS4	B9999	C01	10	00001	598.4	145.5
434 (2)	01	WS4	B9999	C01	10	00002	598.4	<u>1,300.0</u>
434 (2)	01	WS4	B9999	C01	10	00003	598.4	32.3
434 (2)	01	WS4	B9999	C01	10	00004	598.4	-12.9
434 (2)	01	WS4	B9999	C01	10	00005	598.4	-58.2
434 (2)	01	WS4	B9999	C01	10	00006	598.4	-216.7
434 (2)	01	WS4	B9999	C01	10	00007	598.4	-375.1
434 (2)	01	WS4	B9999	C01	10	00008	598.4	-12.9
434 (2)	01	WS4	B9999	C01	10	00009	598.4	-80.8
434 (2)	01	WS4	B9999	C01	10	00010	598.4	32.3
421 (2)	02	FL1	B0001	C01	10	00001	577.3	-67.5
421 (2)	02	FL1	B0001	C01	10	00002	577.3	-509.4
421 (2)	02	FL1	B0001	C01	10	00003	577.3	251.7
437 (2)	02	SW1	B9999	C01	10	00001	559.3	144.1
451 (2)	03	CL1	B9999	C01	10	00001	509.0	<u>921.6</u>
451 (2)	03	FL1	B9999	C01	10	00001	509.0	283.9
451 (2)	03	FL1	B9999	C01	10	00002	509.0	147.2
451 (2)	03	WS1	B9999	C01	10	00001	509.0	-103.3
451 (2)	03	WS1	B9999	C01	10	00002	509.0	56.1
451 (2)	04	CL1	B9999	C01	10	00001	509.0	352.2
451 (2)	04	FL1	B0001	C01	10	00001	509.0	-11.9
451 (2)	04	WS1	B0001	C01	10	00002	509.0	398.0
451 (2)	04	WS1	B9999	C01	10	00001	509.0	33.3

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.
 205 results are listed.



Maine Yankee Atomic Power Plant Site Characterization

DOWNLOAD FILE & SURVEY INSTRUMENTATION CALIBRATION SUMMARY

03/26/98

Direct Measurements For Total Beta Activity

Survey Package : B0600 SURFACES & STRUCTURES
Condenser Bay - Elevation 39 ft.

SURVEY DATE	FILE #	M2350		DETECTOR			PRE EFF	TECHNICIAN
		INST S/N	CAL DUE	MODEL	S/N	CAL DUE		
1/12/98	367 (2)	126196	4/15/98	43-106	126897	4/18/98	.20	DJH2236
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
1/12/98	368 (2)	080498	4/8/98	43-68	PR075149	4/8/98	.20	CWI5440
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
1/13/98	374 (2)	126196	4/15/98	43-106	126897	4/18/98	.20	DJH2236
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
1/13/98	381 (2)	080498	4/8/98	43-68	PR075149	4/8/98	.19	CWI5440
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
1/14/98	392 (2)	129433	6/10/98	43-106	133864	6/5/98	.21	MEW9813
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
1/14/98	394 (2)	080498	4/8/98	43-68	PR075149	4/8/98	.19	CWI5440
CALIBRATION DATES VERIFIED AS ACCEPTABLE								

DETECTOR LISTING CONTINUED ON NEXT PAGE



Maine Yankee Atomic Power Plant Site Characterization

DOWNLOAD FILE & SURVEY INSTRUMENTATION CALIBRATION SUMMARY

03/26/98

Direct Measurements For Total Beta Activity

Survey Package : B0600 SURFACES & STRUCTURES
 Condenser Bay - Elevation 39 ft.

SURVEY DATE	FILE #	M2350		DETECTOR			PRE EFF	TECHNICIAN
		INST S/N	CAL DUE	MODEL	S/N	CAL DUE		
1/15/98	414 (2)	080498	4/8/98	43-68	PR075149	4/8/98	.19	CW15440

CALIBRATION DATES VERIFIED AS ACCEPTABLE



Maine Yankee Atomic Power Plant Site Characterization

03/24/98

Removable Contamination - Gross Beta Activity

Survey Package B0600 SURFACES & STRUCTURES
Condenser Bay - Elevation 39 ft.

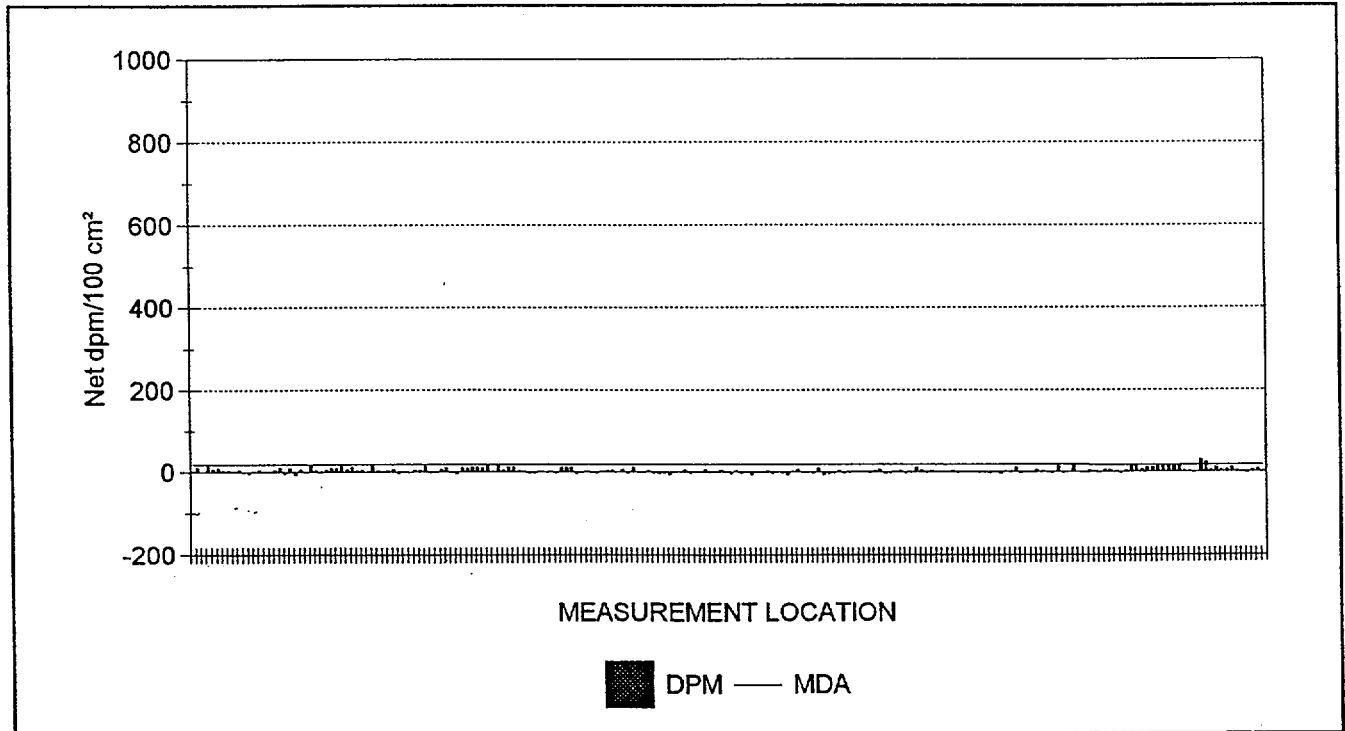
STATISTICAL SUMMARY

TESTS PERFORMED

	Net dpm/100 cm ²
Mean	2.9
Maximum	30.0
Minimum	-6.8
Standard Deviation	6.1
MDA	17.3

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

Samples Reported	207
Samples Prescribed	205



207 RESULTS ARE GRAPHED



Maine Yankee Atomic Power Plant Site Characterization

03/24/98

Removable Contamination - Gross Alpha Activity

Survey Package B0600 SURFACES & STRUCTURES
Condenser Bay - Elevation 39 ft.

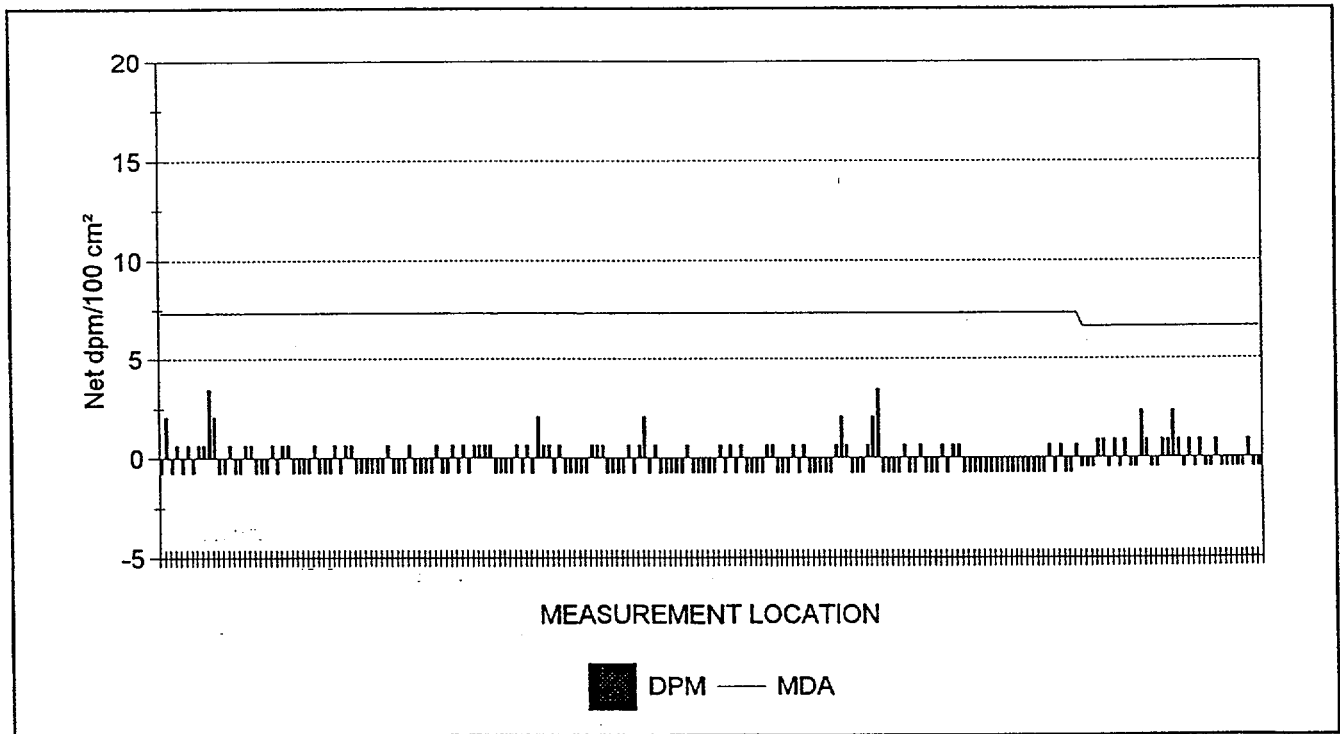
STATISTICAL SUMMARY

TESTS PERFORMED

	Net dpm/100 cm ²
Mean	-0.1
Maximum	3.5
Minimum	-0.8
Standard Deviation	0.9
MDA	7.3

Samples reported satisfy samples prescribed	YES
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	207
Samples Prescribed	205



207 RESULTS ARE GRAPHED



Maine Yankee Atomic Power Plant Site Characterization

03/24/98

Removable Contamination

Survey Package : B0600 SURFACES & STRUCTURES
 Condenser Bay - Elevation 39 ft.

RESULTS LISTING - SORTED BY SURFACE CODE

XLS FILE	UNIT	SURFACE	REASON	COUNT TIME	MSRMNT LOCATION	ALPHA	BETA
SME1B033.XLS	04	WS1	C01	2	2	-0.5	1.3
SME1B033.XLS	04	WS1	C01	2	1	-0.5	8.1
SME1B033.XLS	04	FL1	C01	2	1	0.9	4.7
SME1B033.XLS	04	CL1	C01	2	1	-0.5	-3.7
SME1B033.XLS	03	WS1	C01	2	2	-0.5	-0.3
SME1B033.XLS	03	WS1	C01	2	1	-0.5	3.0
SME1B033.XLS	03	FL1	C01	2	2	-0.5	9.8
SME1B033.XLS	03	FL1	C01	2	1	-0.5	6.4
SME1B033.XLS	03	CL1	C01	2	1	0.9	4.7
SME1B033.XLS	02	SW1	C01	2	1	-0.5	9.8
SME1B033.XLS	02	FL1	C01	2	3	-0.5	4.7
SME1B033.XLS	02	FL1	C01	2	2	0.9	23.2
SME1B033.XLS	02	FL1	C01	2	1	-0.5	29.9
SME1B033.XLS	01	WS4	C01	2	9	0.9	-0.3
SME1B033.XLS	01	WS4	C01	2	8	-0.5	1.3
SME1B033.XLS	01	WS4	C01	2	7	0.9	3.0
SME1B033.XLS	01	WS4	C01	2	6	2.4	14.8
SME1B033.XLS	01	WS4	C01	2	5	0.9	13.1
SME1B033.XLS	01	WS4	C01	2	4	0.9	16.5
SME1B033.XLS	01	WS4	C01	2	3	-0.5	13.1
SME1B033.XLS	01	WS4	C01	2	2	-0.5	13.1
SME1B033.XLS	01	WS4	C01	2	10	0.9	9.8
SME1B033.XLS	01	WS4	C01	2	1	2.4	9.8
SME1B033.XLS	01	WS3	C01	2	6	-0.5	6.4
SME1B033.XLS	01	WS3	C01	2	5	-0.5	13.1
SME1B033.XLS	01	WS3	C01	2	4	0.9	11.4
SME1B033.XLS	01	WS3	C01	2	3	-0.5	3.0
SME1B033.XLS	01	WS3	C01	2	2	0.9	-3.7
SME1B033.XLS	01	WS3	C01	2	1	-0.5	1.3
SME1B033.XLS	01	WS2	C01	2	5	0.9	4.7
SME1B033.XLS	01	WS2	C01	2	4	0.9	4.7
SME1B033.XLS	01	WS2	C01	2	3	-0.5	-2.0
SME1B033.XLS	01	WS2	C01	2	2	-0.5	1.3
SME1B033.XLS	01	WS2	C01	2	1	-0.5	3.0
SME1B032.XLS	01	EQ8	C01	2	5	0.7	-1.8
SME1B032.XLS	01	EQ8	C01	2	4	-0.8	-0.1
SME1B032.XLS	01	EQ8	C01	2	3	-0.8	15.0
SME1B032.XLS	01	EQ8	C01	2	2	0.7	-0.1
SME1B032.XLS	01	EQ8	C01	2	1	-0.8	-3.5
SME1B032.XLS	01	EQ7	C01	2	9	0.7	13.3

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

03/24/98

Removable Contamination

Survey Package : B0600 SURFACES & STRUCTURES
 Condenser Bay - Elevation 39 ft.

RESULTS LISTING - SORTED BY SURFACE CODE

XLS FILE	UNIT	SURFACE	REASON	COUNT TIME	MSRMNT LOCATION	ALPHA	BETA
SME1B032.XLS	01	EQ7	C01	2	8	-0.8	-3.5
SME1B032.XLS	01	EQ7	C01	2	7	-0.8	-0.1
SME1B032.XLS	01	EQ7	C01	2	6	-0.8	1.6
SME1B032.XLS	01	EQ7	C01	2	5	-0.8	4.9
SME1B032.XLS	01	EQ7	C01	2	4	-0.8	-0.1
SME1B032.XLS	01	EQ7	C01	2	3	-0.8	-1.8
SME1B032.XLS	01	EQ7	C01	2	2	-0.8	-3.5
SME1B032.XLS	01	EQ7	C01	2	15	-0.8	10.0
SME1B032.XLS	01	EQ7	C01	2	14	-0.8	1.6
SME1B032.XLS	01	EQ7	C01	2	13	-0.8	1.6
SME1B032.XLS	01	EQ7	C01	2	12	-0.8	-5.2
SME1B032.XLS	01	EQ7	C01	2	11	-0.8	-1.8
SME1B032.XLS	01	EQ7	C01	2	10	-0.8	-3.5
SME1B032.XLS	01	EQ7	C01	2	1	-0.8	-1.8
SME1B032.XLS	01	EQ6	C01	2	5	-0.8	-1.8
SME1B032.XLS	01	EQ6	C01	2	4	-0.8	-0.1
SME1B032.XLS	01	EQ6	C01	2	3	0.7	-0.1
SME1B032.XLS	01	EQ6	C01	2	2	0.7	1.6
SME1B032.XLS	01	EQ6	C01	2	1	-0.8	-1.8
SME1B032.XLS	01	EQ5	C01	2	9	0.7	3.3
SME1B032.XLS	01	EQ5	C01	2	9	-0.8	-0.1
SME1B032.XLS	01	EQ5	C01	2	8	-0.8	-0.1
SME1B032.XLS	01	EQ5	C01	2	8	-0.8	-1.8
SME1B032.XLS	01	EQ5	C01	2	7	0.7	-1.8
SME1B032.XLS	01	EQ5	C01	2	7	-0.8	3.3
SME1B032.XLS	01	EQ5	C01	2	6	0.7	10.0
SME1B032.XLS	01	EQ5	C01	2	6	-0.8	4.9
SME1B032.XLS	01	EQ5	C01	2	5	-0.8	-1.8
SME1B032.XLS	01	EQ5	C01	2	5	-0.8	-3.5
SME1B032.XLS	01	EQ5	C01	2	4	-0.8	3.3
SME1B032.XLS	01	EQ5	C01	2	4	-0.8	1.6
SME1B032.XLS	01	EQ5	C01	2	3	3.5	-5.2
SME1B032.XLS	01	EQ5	C01	2	3	2.1	-3.5
SME1B032.XLS	01	EQ5	C01	2	2	0.7	6.6
SME1B032.XLS	01	EQ5	C01	2	2	-0.8	3.3
SME1B032.XLS	01	EQ5	C01	2	15	-0.8	-1.8
SME1B032.XLS	01	EQ5	C01	2	14	-0.8	-0.1
SME1B032.XLS	01	EQ5	C01	2	13	2.1	1.6
SME1B032.XLS	01	EQ5	C01	2	13	0.7	1.6
SME1B032.XLS	01	EQ5	C01	2	12	0.7	-1.8

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

03/24/98

Removable Contamination

Survey Package : B0600 SURFACES & STRUCTURES
 Condenser Bay - Elevation 39 ft.

RESULTS LISTING - SORTED BY SURFACE CODE

XLS FILE	UNIT	SURFACE	REASON	COUNT TIME	MSRMNT LOCATION	ALPHA	BETA
SME1B032.XLS	01	EQ5	C01	2	12	-0.8	-3.5
SME1B032.XLS	01	EQ5	C01	2	11	-0.8	3.3
SME1B032.XLS	01	EQ5	C01	2	11	-0.8	-3.5
SME1B032.XLS	01	EQ5	C01	2	10	-0.8	-5.2
SME1B032.XLS	01	EQ5	C01	2	10	-0.8	-6.8
SME1B032.XLS	01	EQ5	C01	2	1	0.7	-3.5
SME1B032.XLS	01	EQ5	C01	2	1	-0.8	8.3
SME1B032.XLS	01	EQ4	C01	2	6	0.7	-0.1
SME1B032.XLS	01	EQ4	C01	2	6	-0.8	-1.8
SME1B032.XLS	01	EQ4	C01	2	5	-0.8	6.6
SME1B032.XLS	01	EQ4	C01	2	5	-0.8	1.6
SME1B032.XLS	01	EQ4	C01	2	4	0.7	-3.5
SME1B032.XLS	01	EQ4	C01	2	4	0.7	-6.8
SME1B032.XLS	01	EQ4	C01	2	3	-0.8	-0.1
SME1B032.XLS	01	EQ4	C01	2	3	-0.8	-3.5
SME1B032.XLS	01	EQ4	C01	2	2	-0.8	1.6
SME1B032.XLS	01	EQ4	C01	2	2	-0.8	-0.1
SME1B032.XLS	01	EQ4	C01	2	1	0.7	-0.1
SME1B032.XLS	01	EQ4	C01	2	1	-0.8	-6.8
SME1B032.XLS	01	EQ3	C01	2	9	0.7	-1.8
SME1B032.XLS	01	EQ3	C01	2	9	-0.8	-3.5
SME1B032.XLS	01	EQ3	C01	2	8	0.7	3.3
SME1B032.XLS	01	EQ3	C01	2	8	-0.8	-5.2
SME1B032.XLS	01	EQ3	C01	2	7	-0.8	4.9
SME1B032.XLS	01	EQ3	C01	2	7	-0.8	-1.8
SME1B032.XLS	01	EQ3	C01	2	6	-0.8	1.6
SME1B032.XLS	01	EQ3	C01	2	6	-0.8	-1.8
SME1B032.XLS	01	EQ3	C01	2	5	0.7	1.6
SME1B032.XLS	01	EQ3	C01	2	5	-0.8	6.6
SME1B032.XLS	01	EQ3	C01	2	4	-0.8	-0.1
SME1B032.XLS	01	EQ3	C01	2	4	-0.8	-3.5
SME1B032.XLS	01	EQ3	C01	2	3	-0.8	4.9
SME1B032.XLS	01	EQ3	C01	2	3	-0.8	-0.1
SME1B032.XLS	01	EQ3	C01	2	2	0.7	-1.8
SME1B032.XLS	01	EQ3	C01	2	2	-0.8	-6.8
SME1B032.XLS	01	EQ3	C01	2	10	2.1	-5.2
SME1B032.XLS	01	EQ3	C01	2	10	0.7	-3.5
SME1B032.XLS	01	EQ3	C01	2	1	0.7	3.3
SME1B032.XLS	01	EQ3	C01	2	1	-0.8	-3.5
SME1B032.XLS	01	EQ2	C01	2	9	-0.8	-0.1

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

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

03/24/98

Removable Contamination

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 Condenser Bay - Elevation 39 ft.

RESULTS LISTING - SORTED BY SURFACE CODE

XLS FILE	UNIT	SURFACE	REASON	COUNT TIME	MSRMNT LOCATION	ALPHA	BETA
SME1B032.XLS	01	EQ2	C01	2	9	-0.8	-0.1
SME1B032.XLS	01	EQ2	C01	2	8	-0.8	10.0
SME1B032.XLS	01	EQ2	C01	2	8	-0.8	-3.5
SME1B032.XLS	01	EQ2	C01	2	7	0.7	6.6
SME1B032.XLS	01	EQ2	C01	2	7	0.7	-0.1
SME1B032.XLS	01	EQ2	C01	2	6	0.7	4.9
SME1B032.XLS	01	EQ2	C01	2	6	-0.8	3.3
SME1B032.XLS	01	EQ2	C01	2	5	-0.8	1.5
SME1B032.XLS	01	EQ2	C01	2	5	-0.8	-3.5
SME1B032.XLS	01	EQ2	C01	2	4	-0.8	1.6
SME1B032.XLS	01	EQ2	C01	2	4	-0.8	-1.8
SME1B032.XLS	01	EQ2	C01	2	3	0.7	-1.8
SME1B032.XLS	01	EQ2	C01	2	3	-0.8	-5.2
SME1B032.XLS	01	EQ2	C01	2	2	0.7	10.0
SME1B032.XLS	01	EQ2	C01	2	2	0.7	10.0
SME1B032.XLS	01	EQ2	C01	2	1	2.1	10.0
SME1B032.XLS	01	EQ2	C01	2	1	-0.8	-3.5
SME1B032.XLS	01	EQ1	C01	2	9	0.7	-0.1
SME1B032.XLS	01	EQ1	C01	2	9	-0.8	1.6
SME1B032.XLS	01	EQ1	C01	2	8	0.7	-3.5
SME1B032.XLS	01	EQ1	C01	2	8	-0.8	1.6
SME1B032.XLS	01	EQ1	C01	2	7	-0.8	1.6
SME1B032.XLS	01	EQ1	C01	2	7	-0.8	-3.5
SME1B032.XLS	01	EQ1	C01	2	6	-0.8	3.2
SME1B032.XLS	01	EQ1	C01	2	6	0.7	11.7
SME1B032.XLS	01	EQ1	C01	2	5	0.7	11.7
SME1B032.XLS	01	EQ1	C01	2	5	0.7	4.9
SME1B032.XLS	01	EQ1	C01	2	4	0.7	1.6
SME1B032.XLS	01	EQ1	C01	2	4	-0.8	15.0
SME1B032.XLS	01	EQ1	C01	2	3	0.7	18.4
SME1B032.XLS	01	EQ1	C01	2	3	-0.8	10.0
SME1B032.XLS	01	EQ1	C01	2	2	0.7	11.7
SME1B032.XLS	01	EQ1	C01	2	2	-0.8	11.7
SME1B032.XLS	01	EQ1	C01	2	16	0.7	10.0
SME1B032.XLS	01	EQ1	C01	2	16	-0.8	8.3
SME1B032.XLS	01	EQ1	C01	2	15	-0.8	-1.8
SME1B032.XLS	01	EQ1	C01	2	15	-0.8	-5.2
SME1B032.XLS	01	EQ1	C01	2	14	-0.8	10.0
SME1B032.XLS	01	EQ1	C01	2	14	-0.8	6.6
SME1B032.XLS	01	EQ1	C01	2	13	0.7	-1.8

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

03/24/98

Removable Contamination

Survey Package : B0600 SURFACES & STRUCTURES
 Condenser Bay - Elevation 39 ft.

RESULTS LISTING - SORTED BY SURFACE CODE

XLS FILE	UNIT	SURFACE	REASON	COUNT TIME	MSRMNT LOCATION	ALPHA	BETA
SME1B032.XLS	01	EQ1	C01	2	13	-0.8	-1.8
SME1B032.XLS	01	EQ1	C01	2	12	-0.8	13.3
SME1B032.XLS	01	EQ1	C01	2	12	-0.8	4.9
SME1B032.XLS	01	EQ1	C01	2	11	0.7	4.9
SME1B032.XLS	01	EQ1	C01	2	11	-0.8	-1.8
SME1B032.XLS	01	EQ1	C01	2	10	-0.8	1.6
SME1B032.XLS	01	EQ1	C01	2	10	-0.8	-3.5
SME1B032.XLS	01	EQ1	C01	2	1	-0.8	6.6
SME1B032.XLS	01	EQ1	C01	2	1	-0.8	3.3
SME1B032.XLS	01	CL2	C01	2	9	0.7	1.6
SME1B032.XLS	01	CL2	C01	2	9	-0.8	3.3
SME1B032.XLS	01	CL2	C01	2	8	0.7	-0.1
SME1B032.XLS	01	CL2	C01	2	8	-0.8	13.3
SME1B032.XLS	01	CL2	C01	2	7	0.7	3.3
SME1B032.XLS	01	CL2	C01	2	7	-0.8	4.9
SME1B032.XLS	01	CL2	C01	2	6	-0.8	11.7
SME1B032.XLS	01	CL2	C01	2	6	-0.8	6.6
SME1B032.XLS	01	CL2	C01	2	5	0.7	13.3
SME1B032.XLS	01	CL2	C01	2	5	-0.8	8.3
SME1B032.XLS	01	CL2	C01	2	4	-0.8	8.3
SME1B032.XLS	01	CL2	C01	2	4	-0.8	4.9
SME1B032.XLS	01	CL2	C01	2	3	0.7	1.6
SME1B032.XLS	01	CL2	C01	2	3	-0.8	4.9

REMAINING RESULTS PRINTED ON NEXT PAGE

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

03/24/98

Removable Contamination

Survey Package : B0600 SURFACES & STRUCTURES
 Condenser Bay - Elevation 39 ft.

RESULTS LISTING - SORTED BY SURFACE CODE

XLS FILE	UNIT	SURFACE	REASON	COUNT TIME	MSRMNT LOCATION	ALPHA	BETA
SME1B032.XLS	01	CL2	C01	2	2	0.7	16.7
SME1B032.XLS	01	CL2	C01	2	2	-0.8	1.6
SME1B032.XLS	01	CL2	C01	2	1	0.7	-6.8
SME1B032.XLS	01	CL2	C01	2	1	-0.8	6.6
SME1B032.XLS	01	CL1	C01	2	9	-0.8	8.3
SME1B032.XLS	01	CL1	C01	2	9	-0.8	-5.2
SME1B032.XLS	01	CL1	C01	2	8	0.7	10.0
SME1B032.XLS	01	CL1	C01	2	8	0.7	4.9
SME1B032.XLS	01	CL1	C01	2	7	-0.8	-0.1
SME1B032.XLS	01	CL1	C01	2	7	-0.8	-0.1
SME1B032.XLS	01	CL1	C01	2	6	0.7	4.9
SME1B032.XLS	01	CL1	C01	2	6	-0.8	-0.1
SME1B032.XLS	01	CL1	C01	2	5	2.1	-1.8
SME1B032.XLS	01	CL1	C01	2	5	-0.8	-5.2
SME1B032.XLS	01	CL1	C01	2	4	3.5	1.6
SME1B032.XLS	01	CL1	C01	2	4	0.7	4.9
SME1B032.XLS	01	CL1	C01	2	3	0.7	3.3
SME1B032.XLS	01	CL1	C01	2	3	-0.8	3.3
SME1B032.XLS	01	CL1	C01	2	2	0.7	6.6
SME1B032.XLS	01	CL1	C01	2	2	-0.8	8.3
SME1B032.XLS	01	CL1	C01	2	10	0.7	-0.1
SME1B032.XLS	01	CL1	C01	2	10	-0.8	15.0
SME1B032.XLS	01	CL1	C01	2	1	2.1	10.0
SME1B032.XLS	01	CL1	C01	2	1	-0.8	1.6

NOTES: Activity reported in net dpm/100 cm². Count times are reported in minutes.
 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).
 207 results are listed.



Maine Yankee Atomic Power Plant Site Characterization

DATAFILE & TENNELEC CALIBRATION SUMMARY

03/24/98

Removable Contamination

Survey Package : B0600 SURFACES & STRUCTURES
 Condenser Bay - Elevation 39 ft.

SURVEYDATE	XLS FILE	INST ID	S/N	CAL DUE	LAB TECHNICIAN
2/10/98	SME1B032.XLS	1	14131	8/7/98	RWD
CALIBRATION DATE VERIFIED AS ACCEPTABLE					
2/10/98	SME1B033.XLS	1	14131	8/7/98	RWD
CALIBRATION DATE VERIFIED AS ACCEPTABLE					



Maine Yankee Atomic Power Plant Site Characterization

03/24/98

Gamma Exposure Rate Measurements At 1 Meter

Survey Package B0600 SURFACES & STRUCTURES
Condenser Bay - Elevation 39 ft.

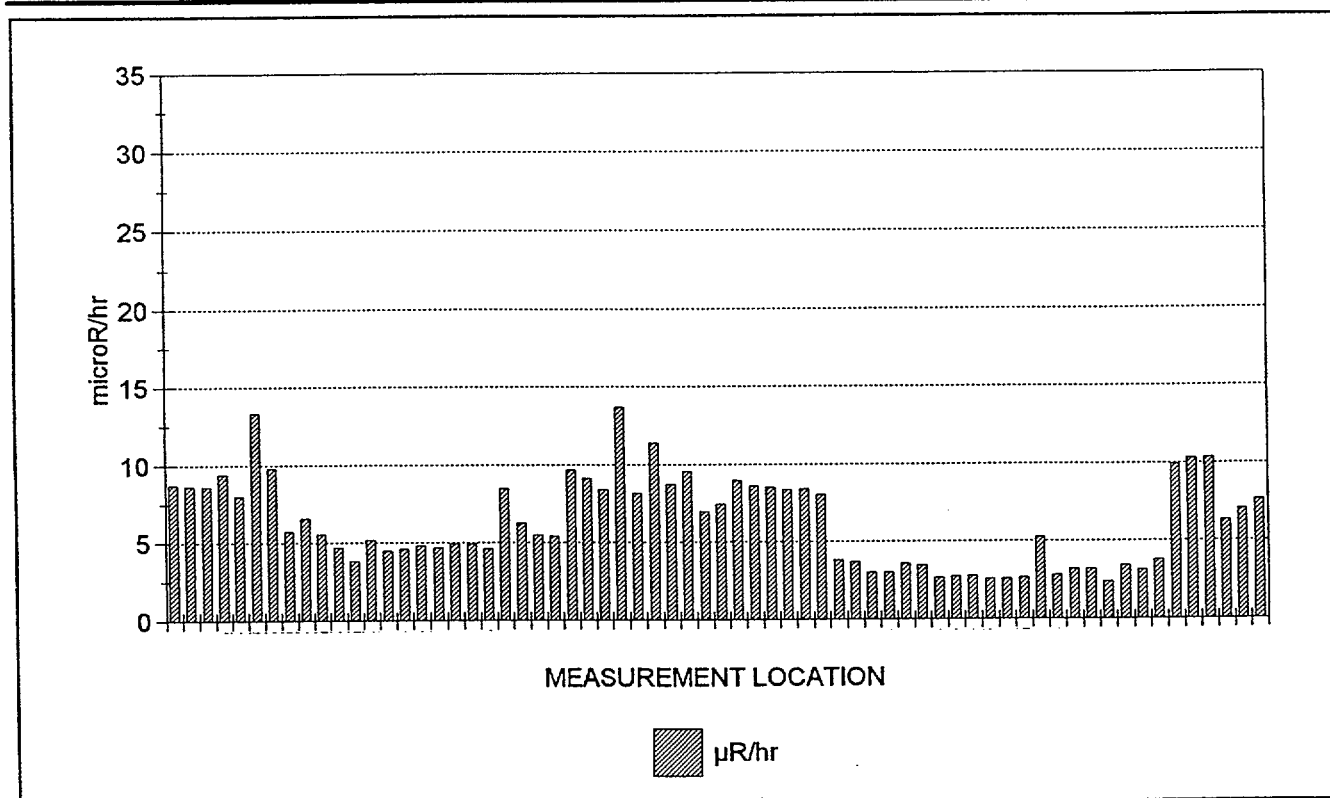
STATISTICAL SUMMARY

TESTS PERFORMED

	$\mu\text{R/hr}$
Mean	6.3
Maximum	13.7
Minimum	2.4
Standard Deviation	2.9

Samples reported satisfy samples prescribed	YES
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Samples Reported	66
Samples Prescribed	66



66 RESULTS ARE GRAPHED



Maine Yankee Atomic Power Plant Site Characterization

03/24/98

Gamma Exposure Rate Measurements At 1 Meter

Survey Package : B0600 SURFACES & STRUCTURES
 Condenser Bay - Elevation 39 ft.

RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	RESULT
454 (2)	01	FL1	B0001	C01	60.00	00010	8.7
454 (2)	01	FL1	B0001	C01	60.00	00011	8.6
454 (2)	01	FL1	B0001	C01	60.00	00015	8.6
454 (2)	01	FL1	B0001	C01	60.00	00020	9.4
454 (2)	01	FL1	B9999	C01	60.00	00001	8.0
454 (2)	01	FL1	B9999	C01	60.00	00002	13.3
454 (2)	01	FL1	B9999	C01	60.00	00003	9.8
454 (2)	01	FL1	B9999	C01	60.00	00004	5.7
454 (2)	01	FL1	B9999	C01	60.00	00005	6.6
454 (2)	01	FL1	B9999	C01	60.00	00006	5.5
454 (2)	01	FL1	B9999	C01	60.00	00007	4.7
454 (2)	01	FL1	B9999	C01	60.00	00008	3.8
454 (2)	01	FL1	B9999	C01	60.00	00009	5.2
454 (2)	01	FL1	B9999	C01	60.00	00012	4.5
454 (2)	01	FL1	B9999	C01	60.00	00013	4.6
454 (2)	01	FL1	B9999	C01	60.00	00014	4.8
454 (2)	01	FL1	B9999	C01	60.00	00016	4.7
454 (2)	01	FL1	B9999	C01	60.00	00017	4.9
454 (2)	01	FL1	B9999	C01	60.00	00018	4.9
454 (2)	01	FL1	B9999	C01	60.00	00019	4.6
447 (2)	01	FL2	B0001	C01	60.00	00001	8.5
447 (2)	01	FL2	B0001	C01	60.00	00002	6.3
447 (2)	01	FL2	B0001	C01	60.00	00003	5.5
447 (2)	01	FL2	B0001	C01	60.00	00006	5.4
454 (2)	01	FL2	B0001	C01	60.00	00025	9.7
454 (2)	01	FL2	B0001	C01	60.00	00026	9.1
454 (2)	01	FL2	B0001	C01	60.00	00027	8.4
454 (2)	01	FL2	B0001	C01	60.00	00028	13.7
454 (2)	01	FL2	B0001	C01	60.00	00029	8.2
454 (2)	01	FL2	B0001	C01	60.00	00030	11.4
454 (2)	01	FL2	B0001	C01	60.00	00031	8.7
454 (2)	01	FL2	B0001	C01	60.00	00032	9.6
454 (2)	01	FL2	B0001	C01	60.00	00033	7.0
454 (2)	01	FL2	B0001	C01	60.00	00034	7.5
454 (2)	01	FL2	B0001	C01	60.00	00035	9.0
454 (2)	01	FL2	B0001	C01	60.00	00036	8.6
454 (2)	01	FL2	B0001	C01	60.00	00037	8.5
454 (2)	01	FL2	B0001	C01	60.00	00038	8.4
454 (2)	01	FL2	B0001	C01	60.00	00039	8.4
454 (2)	01	FL2	B0001	C01	60.00	00040	8.0

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

03/24/98

Gamma Exposure Rate Measurements At 1 Meter

Survey Package : B0600 SURFACES & STRUCTURES
 Condenser Bay - Elevation 39 ft.

RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	RESULT
447 (2)	01	FL2	B9999	C01	60.00	00004	3.8
447 (2)	01	FL2	B9999	C01	60.00	00005	3.7
447 (2)	01	FL2	B9999	C01	60.00	00007	3.0
447 (2)	01	FL2	B9999	C01	60.00	00008	3.0
447 (2)	01	FL2	B9999	C01	60.00	00009	3.6
447 (2)	01	FL2	B9999	C01	60.00	00010	3.5
447 (2)	01	FL2	B9999	C01	60.00	00011	2.6
447 (2)	01	FL2	B9999	C01	60.00	00012	2.7
447 (2)	01	FL2	B9999	C01	60.00	00013	2.7
447 (2)	01	FL2	B9999	C01	60.00	00014	2.6
447 (2)	01	FL2	B9999	C01	60.00	00015	2.6
447 (2)	01	FL2	B9999	C01	60.00	00016	2.6
447 (2)	01	FL2	B9999	C01	60.00	00017	5.2
447 (2)	01	FL2	B9999	C01	60.00	00018	2.8
447 (2)	01	FL2	B9999	C01	60.00	00019	3.2
447 (2)	01	FL2	B9999	C01	60.00	00020	3.2
454 (2)	01	FL2	B9999	C01	60.00	00021	2.4
454 (2)	01	FL2	B9999	C01	60.00	00022	3.4
454 (2)	01	FL2	B9999	C01	60.00	00023	3.1
454 (2)	01	FL2	B9999	C01	60.00	00024	3.8
454 (2)	02	FL1	B0001	C01	60.00	00001	9.9
454 (2)	02	FL1	B0001	C01	60.00	00002	10.3
454 (2)	02	FL1	B0001	C01	60.00	00003	10.3
447 (2)	03	FL1	B9999	C01	60.00	00001	6.3
447 (2)	03	FL1	B9999	C01	60.00	00002	7.1
454 (2)	04	FL1	B0001	C01	60.00	00001	7.7

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.
 66 results are listed.



Maine Yankee Atomic Power Plant Site Characterization

DOWNLOAD FILE & SURVEY INSTRUMENTATION CALIBRATION SUMMARY

03/24/98

Gamma Exposure Rate Measurements At 1 Meter

Survey Package : B0600 SURFACES & STRUCTURES
 Condenser Bay - Elevation 39 ft.

SURVEY DATE	FILE #	M2350		DETECTOR			TECHNICIAN
		INST S/N	CAL DUE	MODEL	S/N	CAL DUE	
1/20/98	447 (2)	126196	4/15/98	44-2	095100	4/19/98	DJH2236
CALIBRATION DATES VERIFIED AS ACCEPTABLE							
1/21/98	454 (2)	126196	4/15/98	44-2	095100	4/19/98	DJH2236
CALIBRATION DATES VERIFIED AS ACCEPTABLE							



Maine Yankee Atomic Power Plant Site Characterization

CHARACTERIZATION SUMMARY

04/01/98

SURVEY PACKAGE NUMBER :B0700

SURFACES & STRUCTURES

PACKAGE DESCRIPTION

Service Building Cold Side - Elevation 21 ft.

SURVEY AREA DESCRIPTION

Service Building Cold Side

GENERAL HISTORICAL INFORMATION (Operational history, etc.)

The cold side of the Service Building contains offices, HP department, stores, etc. Construction materials are concrete floor and painted block walls. All floors are covered with painted epoxy. Some spaces have dropped acoustic tile. All spaces have piping and ventilation equipment in the overhead. HP office contains old decon shower (now covered up).

SUMMARY OF CHARACTERIZATION ACTIVITIES

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

Performed a scan of approximately five square meters at 134 survey measurement locations indicated on the survey map(s). This was approximately 10% of the accessible surface area.

Collected direct measurements for total beta activity at 134 survey measurement locations at the highest location identified in the scan. If an elevated location was not observed, the measurement was collected at an arbitrary location, selected by the technician, within the five square meter scanned area.

Collected smear samples to analyze for removable alpha and beta activity at the same 134 survey locations of direct measurements for total beta activity.

Collected one meter gamma exposure rate measurements at 53 survey locations for direct measurements for total beta activity on floor surfaces.

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

CHARACTERIZATION SURVEY RESULTS

- o There were 13 direct measurements for total beta activity above MDA (821 dpm/100cm²) and no results greater than 2000 dpm/100cm². The maximum measurement result was 1,621.5 dpm/100cm².
- o There were 2 measurements for removable beta activity above MDA (32.2 dpm/100cm²) and no result greater than 100 dpm/100cm². The maximum measurement result was 20 dpm/100cm².
- o There were no measurements for removable alpha activity above MDA (8.4 dpm/100cm²).
- o The average and maximum one meter exposure rate measurement results were 12.5 µR/hr and 126 µR/hr respectively.

REFERENCES (Documents, Interviews)



Maine Yankee Atomic Power Plant Site Characterization

SUMMARY OF SURVEY UNIT(S)

03/24/98

OUTPUT BATCH SN = 226

PACKAGE B0700 SURFACES & STRUCTURES
 Service Building Cold Side - Elevation 21 ft.

UNIT(S)	SURFACE(S)
01 - General	SURFACES NOT IDENTIFIED
02 - Men's Locker Room	CL1 (Ceiling) EQ1 (Equipment) EQ2 (Equipment) FL1 (Floor) WS1 (Wall)
03 - Lunch Room	CL1 (Ceiling) EQ1 (Equipment) EQ2 (Equipment) FL1 (Floor) SW1 (Stairway) WS1 (Wall)
04 - Stock Room	CL1 (Ceiling) EQ1 (Equipment) EQ2 (Equipment) FL1 (Floor) WS1 (Wall)
05 - Maintenance and Plant Offices	CL1 (Ceiling) EQ1 (Equipment) EQ2 (Equipment) EQ3 (Equipment) FL1 (Floor) SW1 (Stairway) WS1 (Wall)
06 - Dosimetry Office and Woman's Locker Room	CL1 (Ceiling) FL1 (Floor) WS1 (Wall)
07 - Hall Way and Adjacent to RP Checkpoint	CL1 (Ceiling) FL1 (Floor) WS1 (Wall)
08 - Safety Office -Upstairs	CL1 (Ceiling) FL1 (Floor) WS1 (Wall)

REASON(S) CHARACTERIZATION SURVEY (C01)

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

03/24/98

OUTPUT BATCH SN = 226

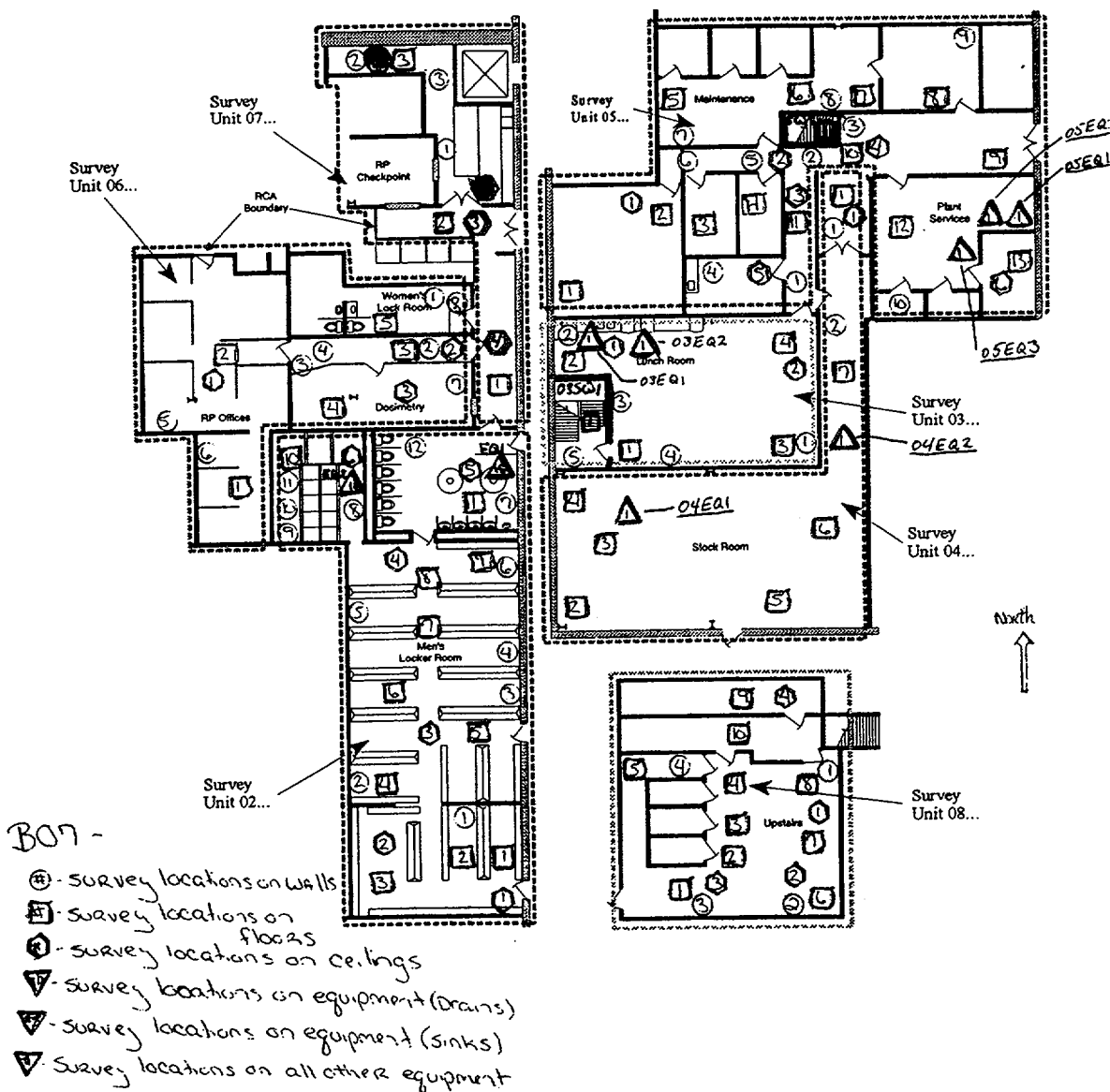
MATERIALS	MAT'L CODE	MATERIAL DESCRIPTION	BETA BKGD (dpm/100 cm ²)
	B0001	CONCRETE - PAINTED (INTERIOR)	478.0
	B0002	CONCRETE - BARE (INTERIOR)	665.0
	B0003	CINDER BLOCK - PAINTED (INTERIOR)	478.0
	B0008	CERAMIC TILE - GLAZED (5X12)	1,109.0
	B0025	WOOD - PAINTED	0.0
	B0026	VINYL TILE (OVER CONCRETE)	0.0
	B0027	CARPET (OVER CONCRETE)	0.0
	B0031	METAL - BARE	0.0
	B0033	CEILING TILE - FIBERBOARD	0.0
	B0035	DRYWALL - PAINTED	0.0
	B0036	METAL - PAINTED	0.0
	B0044	CERAMIC TILE - GLAZED (<5X12)	1,109.0
	B9999	OTHER	0.0
	G0039	CONCRETE (BARE) - GAMMA	0.0



Maine Yankee Atomic Power Plant Site Characterization

SURVEY PACKAGE B0700

Service Building Cold Side 21 ft
Survey Units





Maine Yankee Atomic Power Plant Site Characterization

03/24/98

Direct Measurements For Total Beta Activity

Survey Package B0700 SURFACES & STRUCTURES
 Service Building Cold Side - Elevation 21 ft.

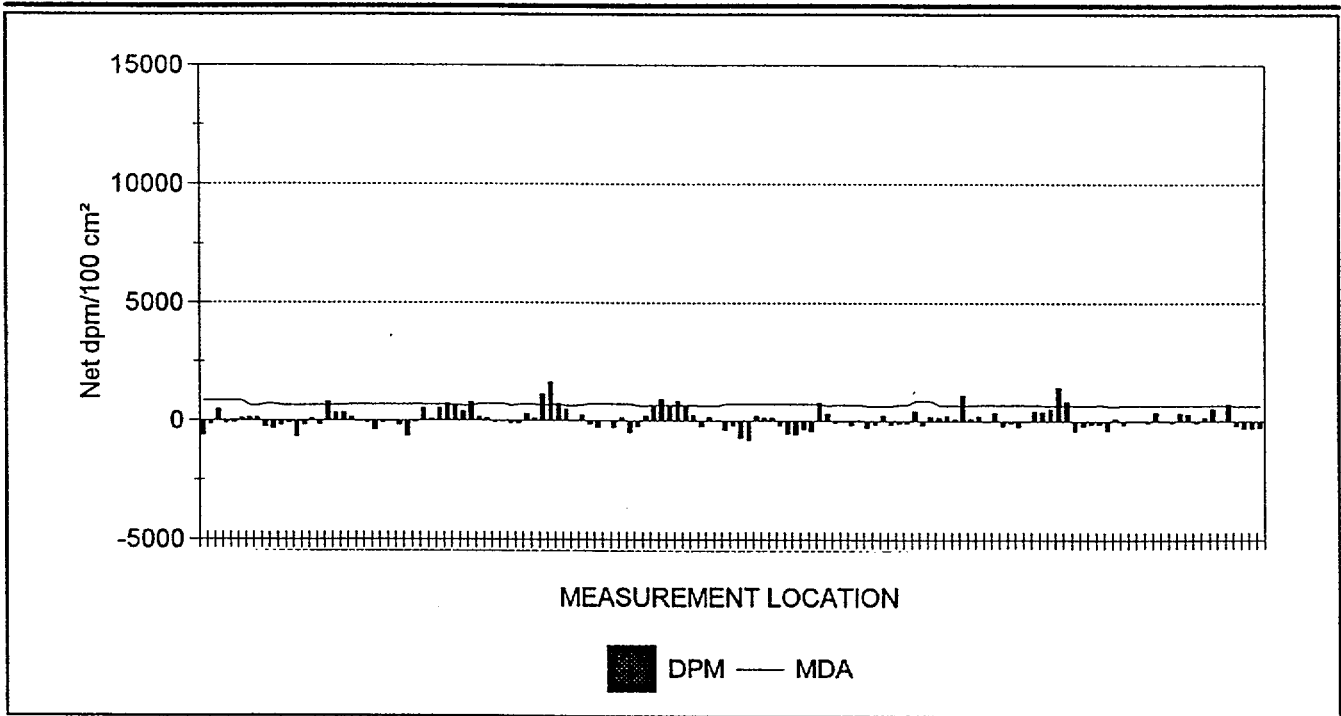
STATISTICAL SUMMARY

TESTS PERFORMED

	Net dpm/100 cm ²
Mean	80.0
Maximum	1,621.5
Minimum	-825.1
Standard Deviation	411.1
MDA	821.0

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	13

Samples Reported	134
Samples Prescribed	134



134 RESULTS ARE GRAPHED



Maine Yankee Atomic Power Plant Site Characterization

03/24/98

Direct Measurements For Total Beta Activity

Survey Package : B0700 SURFACES & STRUCTURES
 Service Building Cold Side - Elevation 21 ft.

RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	MDA	RESULT
343 (2)	02	CL1	B0025	C01	10	00006	821.0	-621.0
343 (2)	02	CL1	B0033	C01	10	00001	821.0	-160.5
343 (2)	02	CL1	B0033	C01	10	00002	821.0	461.1
343 (2)	02	CL1	B0033	C01	10	00003	821.0	-91.5
343 (2)	02	CL1	B0033	C01	10	00004	821.0	-68.4
343 (2)	02	CL1	B0033	C01	10	00005	821.0	92.7
363 (2)	02	EQ1	B9999	C01	10	00001	626.4	142.3
363 (2)	02	EQ2	B0031	C01	10	00001	626.4	142.3
283 (2)	02	FL1	B0001	C01	10	00001	704.6	-258.8
283 (2)	02	FL1	B0001	C01	10	00002	704.6	-328.5
309 (2)	02	FL1	B0001	C01	10	00003	660.2	-177.5
309 (2)	02	FL1	B0001	C01	10	00004	660.2	-66.2
309 (2)	02	FL1	B0001	C01	10	00005	660.2	-667.2
309 (2)	02	FL1	B0001	C01	10	00006	660.2	-177.5
309 (2)	02	FL1	B0001	C01	10	00007	660.2	67.4
309 (2)	02	FL1	B0001	C01	10	00008	660.2	-155.2
309 (2)	02	FL1	B0001	C01	10	00009	660.2	<u>779.8</u>
309 (2)	02	FL1	B0044	C01	10	00010	660.2	349.1
309 (2)	02	FL1	B0044	C01	10	00011	660.2	326.9
344 (2)	02	WS1	B0003	C01	10	00001	669.5	158.5
344 (2)	02	WS1	B0003	C01	10	00002	669.5	-29.1
344 (2)	02	WS1	B0003	C01	10	00003	669.5	-76.0
344 (2)	02	WS1	B0003	C01	10	00004	669.5	-380.9
344 (2)	02	WS1	B0003	C01	10	00005	669.5	-76.0
344 (2)	02	WS1	B0003	C01	10	00006	669.5	-29.1
344 (2)	02	WS1	B0003	C01	10	00007	669.5	-193.3
344 (2)	02	WS1	B0003	C01	10	00012	669.5	-638.9
344 (2)	02	WS1	B0008	C01	10	00008	669.5	-50.3
344 (2)	02	WS1	B0008	C01	10	00009	669.5	512.5
344 (2)	02	WS1	B0008	C01	10	00010	669.5	90.4
344 (2)	02	WS1	B0008	C01	10	00011	669.5	512.5
350 (2)	03	CL1	B0033	C01	10	00001	657.8	<u>705.8</u>
350 (2)	03	CL1	B0033	C01	10	00002	657.8	638.7
363 (2)	03	EQ1	B0025	C01	10	00001	626.4	390.5
359 (2)	03	EQ2	B0036	C01	10	00001	626.1	<u>762.6</u>
283 (2)	03	FL1	B0026	C01	10	00001	704.6	<u>149.5</u>
283 (2)	03	FL1	B0026	C01	10	00002	704.6	103.1
283 (2)	03	FL1	B0026	C01	10	00003	704.6	-59.3
283 (2)	03	FL1	B0026	C01	10	00004	704.6	-36.1
433 (2)	03	SW1	B0002	C01	10	00001	625.5	-93.8

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

03/24/98

Direct Measurements For Total Beta Activity

Survey Package : B0700 SURFACES & STRUCTURES
 Service Building Cold Side - Elevation 21 ft.

RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	MDA	RESULT
344 (2)	03	WS1	B0003	C01	10	00001	669.5	-99.5
344 (2)	03	WS1	B0003	C01	10	00003	669.5	275.8
344 (2)	03	WS1	B0003	C01	10	00004	669.5	111.6
359 (2)	03	WS1	B0003	C01	10	00005	626.1	<u>1,099.3</u>
344 (2)	03	WS1	B0035	C01	10	00002	669.5	<u>1,621.5</u>
350 (2)	04	CL1	B0033	C01	10	00001	657.8	<u>705.8</u>
363 (2)	04	EQ1	B0031	C01	10	00001	626.4	480.7
363 (2)	04	EQ2	B0031	C01	10	00001	626.4	6.9
309 (2)	04	FL1	B0001	C01	10	00007	660.2	223.2
283 (2)	04	FL1	B0002	C01	10	00002	704.6	-144.2
283 (2)	04	FL1	B0002	C01	10	00003	704.6	-283.4
283 (2)	04	FL1	B0002	C01	10	00004	704.6	-5.0
283 (2)	04	FL1	B0002	C01	10	00006	704.6	-283.4
283 (2)	04	FL1	B0026	C01	10	00001	704.6	126.3
283 (2)	04	FL1	B0031	C01	10	00005	704.6	-500.2
363 (2)	04	WS1	B0001	C01	10	00001	626.4	-222.9
363 (2)	04	WS1	B0001	C01	10	00002	626.4	205.8
350 (2)	05	CL1	B0033	C01	10	00001	657.8	616.3
350 (2)	05	CL1	B0033	C01	10	00002	657.8	<u>884.7</u>
350 (2)	05	CL1	B0033	C01	10	00003	657.8	<u>594.0</u>
350 (2)	05	CL1	B0033	C01	10	00004	657.8	<u>795.3</u>
350 (2)	05	CL1	B0033	C01	10	00005	657.8	638.7
350 (2)	05	CL1	B0036	C01	10	00006	657.8	236.1
359 (2)	05	EQ1	B0036	C01	10	00001	626.1	-233.2
359 (2)	05	EQ2	B0036	C01	10	00001	626.1	151.5
359 (2)	05	EQ3	B0036	C01	10	00001	626.1	-6.9
283 (2)	05	FL1	B0001	C01	10	00012	704.6	-398.1
283 (2)	05	FL1	B0026	C01	10	00008	704.6	-198.5
283 (2)	05	FL1	B0026	C01	10	00009	704.6	-732.2
283 (2)	05	FL1	B0026	C01	10	00010	704.6	-825.1
283 (2)	05	FL1	B0026	C01	10	00011	704.6	219.2
283 (2)	05	FL1	B0027	C01	10	00001	704.6	126.3
283 (2)	05	FL1	B0027	C01	10	00002	704.6	126.3
283 (2)	05	FL1	B0027	C01	10	00003	704.6	-198.5
283 (2)	05	FL1	B0027	C01	10	00004	704.6	-546.6
283 (2)	05	FL1	B0027	C01	10	00005	704.6	-569.8
283 (2)	05	FL1	B0027	C01	10	00006	704.6	-361.0
283 (2)	05	FL1	B0027	C01	10	00007	704.6	-453.8
283 (2)	05	FL1	B0027	C01	10	00013	704.6	<u>752.9</u>
433 (2)	05	SW1	B9999	C01	10	00001	625.5	312.0

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

03/24/98

Direct Measurements For Total Beta Activity

Survey Package : B0700 SURFACES & STRUCTURES
 Service Building Cold Side - Elevation 21 ft.

RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	MDA	RESULT
346 (2)	05	WS1	B0003	C01	10	00001	667.8	-71.6
346 (2)	05	WS1	B0003	C01	10	00002	667.8	-25.1
346 (2)	05	WS1	B0003	C01	10	00003	667.8	-187.9
346 (2)	05	WS1	B0003	C01	10	00006	667.8	21.4
359 (2)	05	WS1	B0003	C01	10	00007	626.1	-281.2
359 (2)	05	WS1	B0003	C01	10	00008	626.1	-145.4
359 (2)	05	WS1	B0003	C01	10	00009	626.1	239.3
359 (2)	05	WS1	B0003	C01	10	00010	626.1	-168.1
346 (2)	05	WS1	B0035	C01	10	00004	667.8	-105.3
346 (2)	05	WS1	B0035	C01	10	00005	667.8	-105.3
343 (2)	06	CL1	B0033	C01	10	00001	821.0	415.1
343 (2)	06	CL1	B0033	C01	10	00002	821.0	-183.5
343 (2)	06	CL1	B0033	C01	10	00003	821.0	184.8
309 (2)	06	FL1	B0026	C01	10	00001	660.2	144.7
309 (2)	06	FL1	B0026	C01	10	00002	660.2	233.7
309 (2)	06	FL1	B0026	C01	10	00005	660.2	77.9
309 (2)	06	FL1	B0027	C01	10	00003	660.2	<u>1,079.7</u>
309 (2)	06	FL1	B0027	C01	10	00004	660.2	<u>100.2</u>
346 (2)	06	WS1	B0003	C01	10	00001	667.8	207.5
346 (2)	06	WS1	B0003	C01	10	00004	667.8	-25.1
346 (2)	06	WS1	B0003	C01	10	00005	667.8	370.3
346 (2)	06	WS1	B0003	C01	10	00007	667.8	-211.2
346 (2)	06	WS1	B0003	C01	10	00008	667.8	-71.6
346 (2)	06	WS1	B0025	C01	10	00003	667.8	-244.9
346 (2)	06	WS1	B0035	C01	10	00002	667.8	11.0
346 (2)	06	WS1	B0035	C01	10	00006	667.8	406.4
601 (2)	07	CL1	B0033	C01	10	00001	645.7	380.9
601 (2)	07	CL1	B0033	C01	10	00002	645.7	529.2
601 (2)	07	CL1	B0033	C01	10	00003	645.7	<u>1,398.1</u>
601 (2)	07	CL1	B0033	C01	10	00004	645.7	<u>804.7</u>
309 (2)	07	FL1	B0001	C01	10	00001	660.2	-422.3
309 (2)	07	FL1	B0001	C01	10	00002	660.2	-199.7
309 (2)	07	FL1	B0001	C01	10	00003	660.2	-132.9
346 (2)	07	WS1	B0003	C01	10	00001	667.8	-118.1
359 (2)	07	WS1	B0003	C01	10	00002	626.1	-394.4
359 (2)	07	WS1	B0003	C01	10	00003	626.1	103.5
350 (2)	08	CL1	B9999	C01	10	00001	657.8	-144.1
350 (2)	08	CL1	B9999	C01	10	00002	657.8	-9.9
350 (2)	08	CL1	B9999	C01	10	00003	657.8	-9.9
350 (2)	08	CL1	B9999	C01	10	00004	657.8	-77.0

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

03/24/98

Direct Measurements For Total Beta Activity

Survey Package : B0700 SURFACES & STRUCTURES
 Service Building Cold Side - Elevation 21 ft.

RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	MDA	RESULT
309 (2)	08	FL1	B0026	C01	10	00010	660.2	367.3
309 (2)	08	FL1	B0027	C01	10	00001	660.2	11.1
309 (2)	08	FL1	B0027	C01	10	00002	660.2	-55.7
309 (2)	08	FL1	B0027	C01	10	00003	660.2	345.1
309 (2)	08	FL1	B0027	C01	10	00004	660.2	278.3
309 (2)	08	FL1	B0027	C01	10	00005	660.2	-77.9
309 (2)	08	FL1	B0027	C01	10	00006	660.2	167.0
309 (2)	08	FL1	B0027	C01	10	00007	660.2	523.1
309 (2)	08	FL1	B0027	C01	10	00008	660.2	33.4
309 (2)	08	FL1	B0027	C01	10	00009	660.2	<u>701.2</u>
433 (2)	08	WS1	B0003	C01	10	00001	625.5	-209.2
433 (2)	08	WS1	B0003	C01	10	00002	625.5	-317.2
433 (2)	08	WS1	B0003	C01	10	00003	625.5	-317.2
433 (2)	08	WS1	B0003	C01	10	00004	625.5	-295.6

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.
 134 results are listed.



Maine Yankee Atomic Power Plant Site Characterization

DOWNLOAD FILE & SURVEY INSTRUMENTATION CALIBRATION SUMMARY

03/24/98

Direct Measurements For Total Beta Activity

Survey Package : B0700 SURFACES & STRUCTURES
 Service Building Cold Side - Elevation 21 ft.

SURVEY DATE	FILE #	M2350		DETECTOR			PRE EFF	TECHNICIAN
		INST S/N	CAL DUE	MODEL	S/N	CAL DUE		
1/5/98	283 (2)	129433	6/10/98	43-106	133864	6/5/98	.21	MEW9813
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
1/6/98	309 (2)	129433	6/10/98	43-106	133864	6/5/98	.21	MEW9813
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
1/9/98	343 (2)	126170	6/10/98	43-106	133878	6/8/98	.21	MBK5187
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
1/9/98	344 (2)	98620	3/20/98	43-106	128919	3/20/98	.20	DRK2986
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
1/9/98	346 (2)	126201	4/15/98	43-106	133858	5/3/98	.20	BSM0490
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
1/9/98	350 (2)	129433	6/10/98	43-106	133864	6/5/98	.21	
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
1/12/98	359 (2)	129433	6/10/98	43-106	133864	6/5/98	.21	MEW9813
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
1/12/98	363 (2)	126170	6/10/98	43-106	133878	6/8/98	.21	MBK5187
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
1/19/98	433 (2)	129433	6/10/98	43-106	133864	6/5/98	.22	MEW9813
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
2/13/98	601 (2)	129440	6/10/98	43-106	128926	6/5/98	.22	MBK5187
CALIBRATION DATES VERIFIED AS ACCEPTABLE								



Maine Yankee Atomic Power Plant Site Characterization

03/24/98

Removable Contamination - Gross Beta Activity

Survey Package B0700 SURFACES & STRUCTURES
 Service Building Cold Side - Elevation 21 ft.

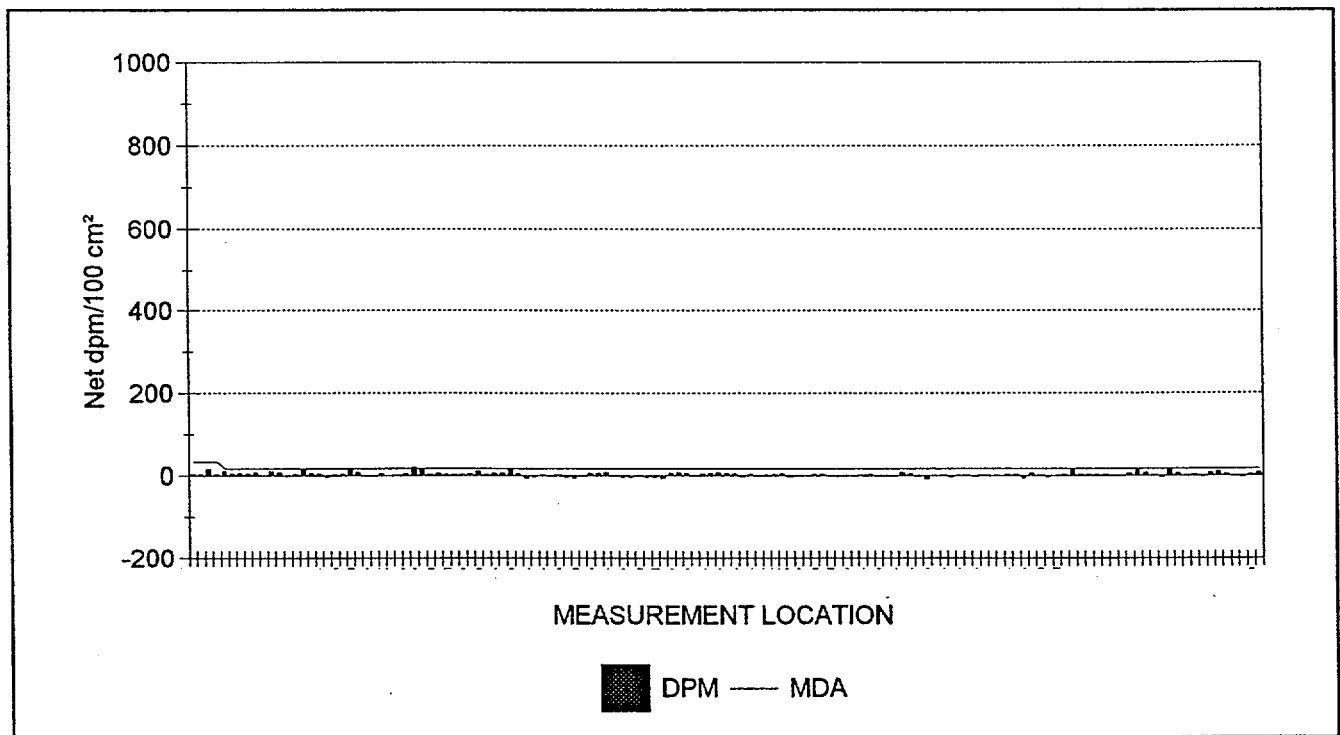
STATISTICAL SUMMARY

TESTS PERFORMED

	Net dpm/100 cm ²
Mean	2.8
Maximum	19.9
Minimum	-7.1
Standard Deviation	5.0
MDA	32.2

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

Samples Reported	134
Samples Prescribed	134



134 RESULTS ARE GRAPHED



Maine Yankee Atomic Power Plant Site Characterization

03/24/98

Removable Contamination - Gross Alpha Activity

Survey Package B0700 SURFACES & STRUCTURES
 Service Building Cold Side - Elevation 21 ft.

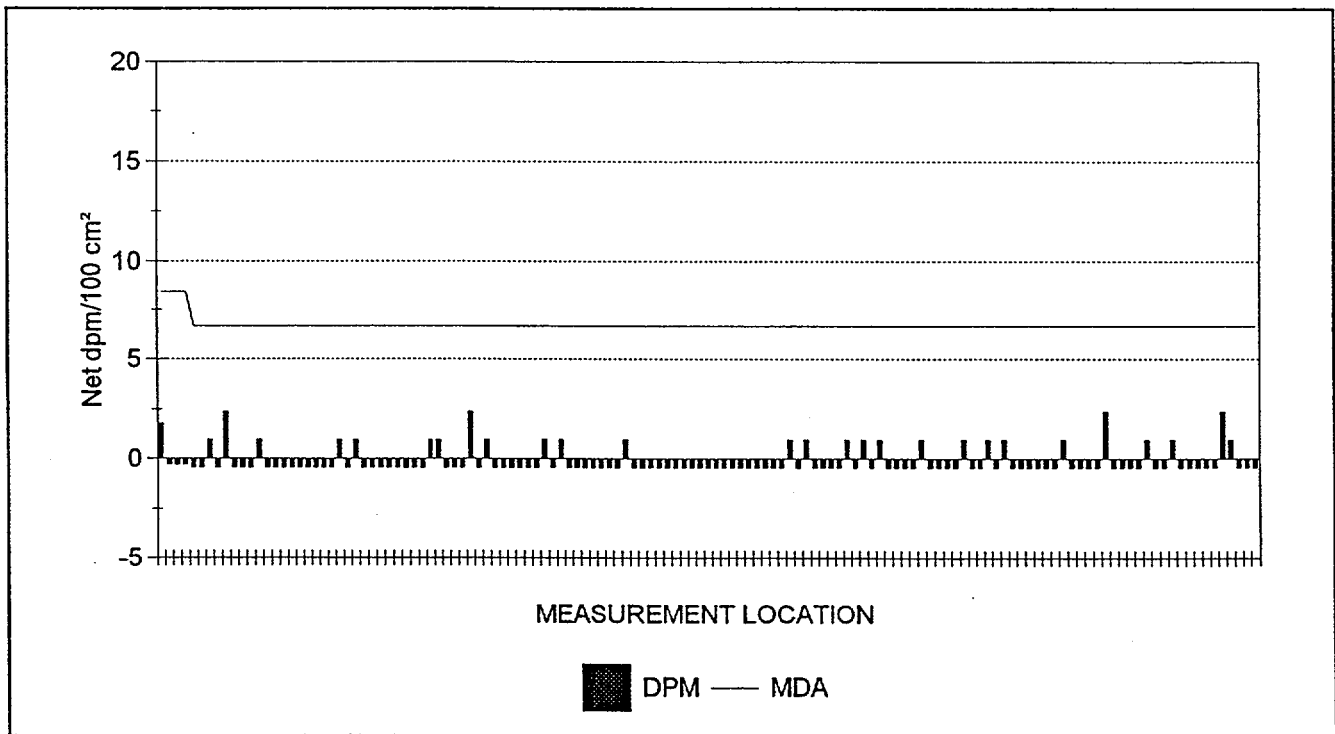
STATISTICAL SUMMARY

TESTS PERFORMED

	Net dpm/100 cm ²
Mean	-0.1
Maximum	2.4
Minimum	-0.5
Standard Deviation	0.7
MDA	8.4

Samples reported satisfy samples prescribed	YES
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	134
Samples Prescribed	134



134 RESULTS ARE GRAPHED



Maine Yankee Atomic Power Plant Site Characterization

03/24/98

Removable Contamination

Survey Package : B0700 SURFACES & STRUCTURES
Service Building Cold Side - Elevation 21 ft.

RESULTS LISTING - SORTED BY SURFACE CODE

XLS FILE	UNIT	SURFACE	REASON	COUNT TIME	MSRMNT LOCATION	ALPHA	BETA
SME1B034.XLS	08	WS1	C01	2	4	-0.5	8.1
SME1B034.XLS	08	WS1	C01	2	3	-0.5	3.0
SME1B034.XLS	08	WS1	C01	2	2	-0.5	-3.7
SME1B034.XLS	08	WS1	C01	2	1	0.9	-0.3
SME1B034.XLS	08	FL1	C01	2	9	2.4	4.7
SME1B034.XLS	08	FL1	C01	2	8	-0.5	9.8
SME1B034.XLS	08	FL1	C01	2	7	-0.5	8.1
SME1B034.XLS	08	FL1	C01	2	6	-0.5	-2.0
SME1B034.XLS	08	FL1	C01	2	5	-0.5	3.0
SME1B034.XLS	08	FL1	C01	2	4	-0.5	-0.3
SME1B034.XLS	08	FL1	C01	2	3	0.9	6.4
SME1B034.XLS	08	FL1	C01	2	2	-0.5	13.1
SME1B034.XLS	08	FL1	C01	2	10	-0.5	-3.7
SME1B034.XLS	08	FL1	C01	2	1	0.9	1.3
SME1B034.XLS	08	CL1	C01	2	4	-0.5	8.1
SME1B034.XLS	08	CL1	C01	2	3	-0.5	11.4
SME1B034.XLS	08	CL1	C01	2	2	-0.5	6.4
SME1B034.XLS	08	CL1	C01	2	1	-0.5	1.3
SME1B034.XLS	07	WS1	C01	2	3	2.4	1.3
SME1B034.XLS	07	WS1	C01	2	2	-0.5	3.0
SME1B034.XLS	07	WS1	C01	2	1	-0.5	3.0
SME1B034.XLS	07	FL1	C01	2	3	-0.5	3.0
SME1B034.XLS	07	FL1	C01	2	2	-0.5	3.0
SME1B034.XLS	07	FL1	C01	2	1	0.9	11.4
SME1B034.XLS	06	WS1	C01	2	8	-0.5	3.0
SME1B034.XLS	06	WS1	C01	2	7	-0.5	-0.3
SME1B034.XLS	06	WS1	C01	2	6	-0.5	-3.7
SME1B034.XLS	06	WS1	C01	2	5	-0.5	1.3
SME1B034.XLS	06	WS1	C01	2	4	-0.5	6.4
SME1B034.XLS	06	WS1	C01	2	3	-0.5	-5.4
SME1B034.XLS	06	WS1	C01	2	2	0.9	3.0
SME1B034.XLS	06	WS1	C01	2	1	-0.5	3.0
SME1B034.XLS	06	FL1	C01	2	5	0.9	-0.3
SME1B034.XLS	06	FL1	C01	2	4	-0.5	-0.3
SME1B034.XLS	06	FL1	C01	2	3	-0.5	1.3
SME1B034.XLS	06	FL1	C01	2	2	0.9	-2.0
SME1B034.XLS	06	FL1	C01	2	1	-0.5	-0.3
SME1B034.XLS	06	CL1	C01	2	3	-0.5	-0.3
SME1B034.XLS	06	CL1	C01	2	2	-0.5	-3.7
SME1B034.XLS	06	CL1	C01	2	1	-0.5	1.3

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

03/24/98

Removable Contamination

Survey Package: B0700 SURFACES & STRUCTURES
Service Building Cold Side - Elevation 21 ft.

RESULTS LISTING - SORTED BY SURFACE CODE

XLS FILE	UNIT	SURFACE	REASON	COUNT	MSRMNT	ALPHA	BETA
				TIME	LOCATION		
SME1B034.XLS	05	WS1	C01	2	9	0.9	-0.3
SME1B034.XLS	05	WS1	C01	2	8	-0.5	-7.1
SME1B034.XLS	05	WS1	C01	2	7	-0.5	-2.0
SME1B034.XLS	05	WS1	C01	2	6	-0.5	4.7
SME1B034.XLS	05	WS1	C01	2	5	-0.5	8.1
SME1B034.XLS	05	WS1	C01	2	4	0.9	-2.0
SME1B034.XLS	05	WS1	C01	2	3	-0.5	-2.0
SME1B034.XLS	05	WS1	C01	2	2	0.9	-0.3
SME1B034.XLS	05	WS1	C01	2	10	-0.5	3.0
SME1B034.XLS	05	WS1	C01	2	1	0.9	1.3
SME1B034.XLS	05	SW1	C01	2	1	-0.5	-2.0
SME1B034.XLS	05	FL1	C01	2	9	-0.5	-2.0
SME1B034.XLS	05	FL1	C01	2	8	-0.5	-2.0
SME1B034.XLS	05	FL1	C01	2	7	-0.5	-0.3
SME1B034.XLS	05	FL1	C01	2	6	0.9	4.7
SME1B034.XLS	05	FL1	C01	2	5	-0.5	3.0
SME1B034.XLS	05	FL1	C01	2	4	0.9	-0.3
SME1B034.XLS	05	FL1	C01	2	3	-0.5	-0.3
SME1B034.XLS	05	FL1	C01	2	2	-0.5	-3.7
SME1B034.XLS	05	FL1	C01	2	13	-0.5	4.7
SME1B034.XLS	05	FL1	C01	2	12	-0.5	3.0
SME1B034.XLS	05	FL1	C01	2	11	-0.5	1.3
SME1B034.XLS	05	FL1	C01	2	10	-0.5	-2.0
SME1B034.XLS	05	FL1	C01	2	1	-0.5	3.0
SME1B034.XLS	05	EQ3	C01	2	1	-0.5	-3.7
SME1B034.XLS	05	EQ2	C01	2	1	-0.5	4.7
SME1B034.XLS	05	EQ1	C01	2	1	-0.5	6.4
SME1B034.XLS	05	CL1	C01	2	6	-0.5	8.1
SME1B034.XLS	05	CL1	C01	2	5	-0.5	6.4
SME1B034.XLS	05	CL1	C01	2	4	-0.5	4.7
SME1B034.XLS	05	CL1	C01	2	3	-0.5	-0.3
SME1B034.XLS	05	CL1	C01	2	2	-0.5	6.4
SME1B034.XLS	05	CL1	C01	2	1	-0.5	8.1
SME1B034.XLS	04	WS1	C01	2	2	-0.5	6.4
SME1B034.XLS	04	WS1	C01	2	1	-0.5	-5.4
SME1B034.XLS	04	FL1	C01	2	7	-0.5	-3.7
SME1B034.XLS	04	FL1	C01	2	6	0.9	-3.7
SME1B034.XLS	04	FL1	C01	2	5	-0.5	-0.3
SME1B034.XLS	04	FL1	C01	2	4	-0.5	-3.7
SME1B034.XLS	04	FL1	C01	2	3	-0.5	-3.7

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

03/24/98

Removable Contamination

Survey Package : B0700 SURFACES & STRUCTURES
 Service Building Cold Side - Elevation 21 ft.

RESULTS LISTING - SORTED BY SURFACE CODE

XLS FILE	UNIT	SURFACE	REASON	COUNT TIME	MSRMNT LOCATION	ALPHA	BETA
SME1B034.XLS	04	FL1	C01	2	2	-0.5	-2.0
SME1B034.XLS	04	FL1	C01	2	1	-0.5	8.1
SME1B034.XLS	04	EQ2	C01	2	1	-0.5	6.4
SME1B034.XLS	04	EQ1	C01	2	1	-0.5	6.4
SME1B034.XLS	04	CL1	C01	2	1	0.9	-2.0
SME1B034.XLS	03	WS1	C01	2	5	-0.5	-5.4
SME1B034.XLS	03	WS1	C01	2	4	0.9	-3.7
SME1B034.XLS	03	WS1	C01	2	3	-0.5	1.3
SME1B034.XLS	03	WS1	C01	2	2	-0.5	-2.0
SME1B034.XLS	03	WS1	C01	2	1	-0.5	1.3
SME1B034.XLS	03	SW1	C01	2	1	-0.5	-3.7
SME1B034.XLS	03	FL1	C01	2	4	-0.5	-5.4
SME1B034.XLS	03	FL1	C01	2	3	-0.5	4.7
SME1B034.XLS	03	FL1	C01	2	2	0.9	14.8
SME1B034.XLS	03	FL1	C01	2	1	-0.5	6.4
SME1B034.XLS	03	EQ2	C01	2	1	2.4	6.4
SME1B034.XLS	03	EQ1	C01	2	1	-0.5	3.0
SME1B034.XLS	03	CL1	C01	2	2	-0.5	9.8
SME1B034.XLS	03	CL1	C01	2	1	-0.5	4.7
SME1B034.XLS	02	WS1	C01	2	9	0.9	3.0
SME1B034.XLS	02	WS1	C01	2	8	0.9	3.0
SME1B034.XLS	02	WS1	C01	2	7	-0.5	3.0
SME1B034.XLS	02	WS1	C01	2	6	-0.5	6.4
SME1B034.XLS	02	WS1	C01	2	5	-0.5	3.0
SME1B034.XLS	02	WS1	C01	2	4	-0.5	13.1
SME1B034.XLS	02	WS1	C01	2	3	-0.5	19.9
SME1B034.XLS	02	WS1	C01	2	2	-0.5	4.7
SME1B034.XLS	02	WS1	C01	2	12	-0.5	1.3
SME1B034.XLS	02	WS1	C01	2	11	-0.5	-0.3
SME1B034.XLS	02	WS1	C01	2	10	0.9	4.7
SME1B034.XLS	02	WS1	C01	2	1	-0.5	-2.0
SME1B034.XLS	02	FL1	C01	2	9	0.9	-0.3
SME1B034.XLS	02	FL1	C01	2	8	-0.5	8.1
SME1B034.XLS	02	FL1	C01	2	7	-0.5	16.5
SME1B034.XLS	02	FL1	C01	2	6	-0.5	3.0
SME1B034.XLS	02	FL1	C01	2	5	-0.5	3.0
SME1B034.XLS	02	FL1	C01	2	4	-0.5	-3.7
SME1B034.XLS	02	FL1	C01	2	3	-0.5	4.7
SME1B034.XLS	02	FL1	C01	2	2	-0.5	6.4
SME1B034.XLS	02	FL1	C01	2	11	-0.5	13.1

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

03/24/98

Removable Contamination

Survey Package : B0700 SURFACES & STRUCTURES
 Service Building Cold Side - Elevation 21 ft.

RESULTS LISTING - SORTED BY SURFACE CODE

XLS FILE	UNIT	SURFACE	REASON	COUNT	MSRMNT	ALPHA	BETA
				TIME	LOCATION		
SME1B034.XLS	02	FL1	C01	<u>2</u>	10	-0.5	3.0
SME1B034.XLS	02	FL1	C01	2	1	0.9	-2.0
SME1B034.XLS	02	EQ2	C01	2	1	-0.5	8.1
SME1B034.XLS	02	EQ1	C01	2	1	-0.5	9.8
SME1B034.XLS	02	CL1	C01	2	6	-0.5	-0.3
SME1B034.XLS	02	CL1	C01	2	5	2.4	8.1
SME1B034.XLS	02	CL1	C01	2	4	-0.5	4.7
SME1B034.XLS	02	CL1	C01	2	3	0.9	6.4
SME1B034.XLS	02	CL1	C01	2	2	-0.5	4.7
SME1B034.XLS	02	CL1	C01	2	1	-0.5	9.8
SME1E027.XLS	01	CL1	C01	1	4	-0.3	2.7
SME1E027.XLS	01	CL1	C01	1	3	-0.3	15.1
SME1E027.XLS	01	CL1	C01	1	2	-0.3	2.7
SME1E027.XLS	01	CL1	C01	1	1	1.8	2.7

NOTES: Activity reported in net dpm/100 cm². Count times are reported in minutes.
 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).
 134 results are listed.



Maine Yankee Atomic Power Plant Site Characterization

DATAFILE & TENNELEC CALIBRATION SUMMARY

03/24/98

Removable Contamination

Survey Package : B0700 SURFACES & STRUCTURES
Service Building Cold Side - Elevation 21 ft.

SURVEYDATE	XLS FILE	INST ID	S/N	CAL DUE	LAB TECHNICIAN
2/10/98	SME1B034.XLS	1	14131	8/7/98	RWD

CALIBRATION DATE VERIFIED AS ACCEPTABLE



Maine Yankee Atomic Power Plant Site Characterization

03/24/98

Gamma Exposure Rate Measurements At 1 Meter

Survey Package B0700 SURFACES & STRUCTURES
 Service Building Cold Side - Elevation 21 ft.

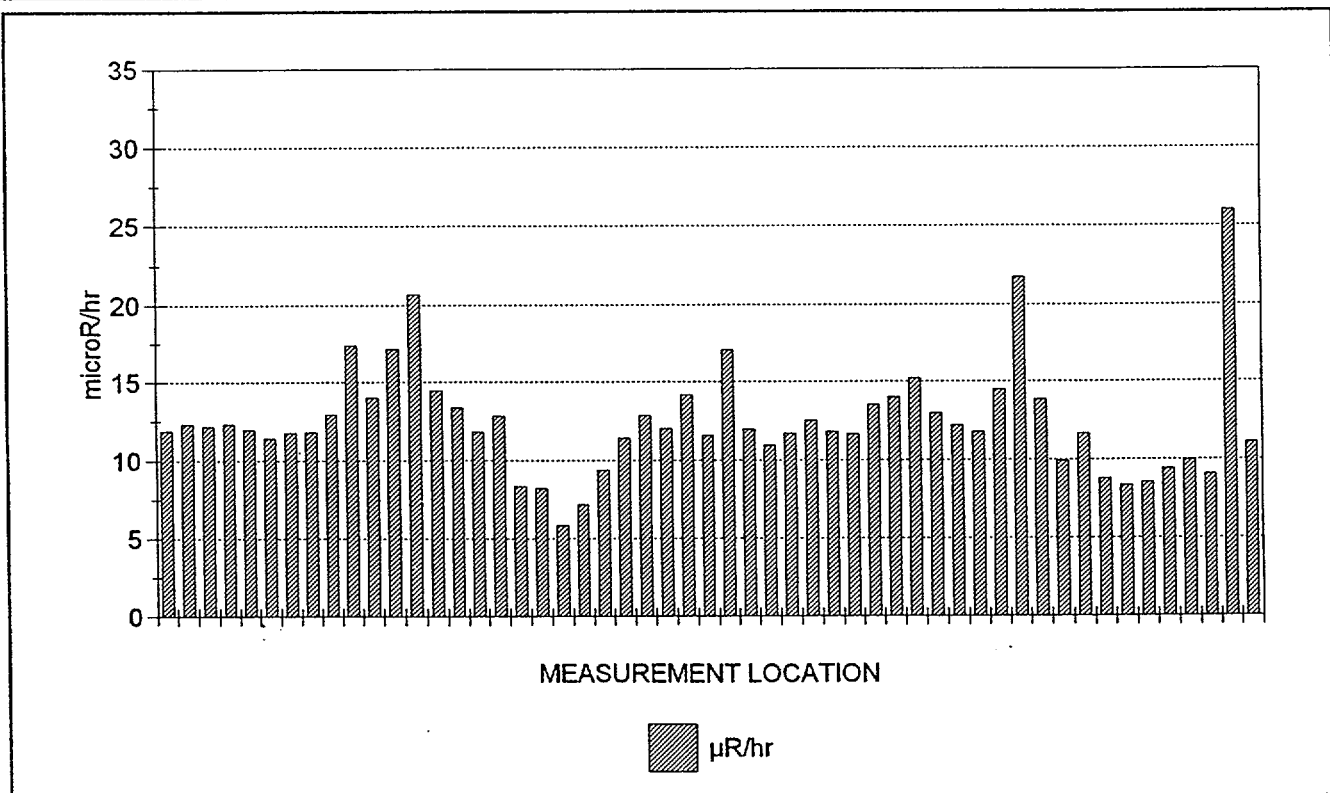
STATISTICAL SUMMARY

TESTS PERFORMED

	$\mu\text{R/hr}$
Mean	12.5
Maximum	26.0
Minimum	5.8
Standard Deviation	3.5

Samples reported satisfy samples prescribed	YES
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Samples Reported	53
Samples Prescribed	53



53 RESULTS ARE GRAPHED



Maine Yankee Atomic Power Plant Site Characterization

03/24/98

Gamma Exposure Rate Measurements At 1 Meter

Survey Package : B0700 SURFACES & STRUCTURES
 Service Building Cold Side - Elevation 21 ft.

RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	RESULT
292 (2)	02	FL1	B0001	C01	60.00	00001	11.9
292 (2)	02	FL1	B0001	C01	60.00	00002	12.3
310 (2)	02	FL1	B0001	C01	60.00	00003	12.2
310 (2)	02	FL1	B0001	C01	60.00	00004	12.3
310 (2)	02	FL1	B0001	C01	60.00	00005	11.9
310 (2)	02	FL1	B0001	C01	60.00	00006	11.4
310 (2)	02	FL1	B0001	C01	60.00	00007	11.7
310 (2)	02	FL1	B0001	C01	60.00	00008	11.8
310 (2)	02	FL1	B0001	C01	60.00	00009	12.9
310 (2)	02	FL1	B0044	C01	60.00	00010	17.4
310 (2)	02	FL1	B0044	C01	60.00	00011	14.0
292 (2)	03	FL1	B0026	C01	60.00	00001	17.1
292 (2)	03	FL1	B0026	C01	60.00	00002	20.7
292 (2)	03	FL1	B0026	C01	60.00	00003	14.5
292 (2)	03	FL1	B0026	C01	60.00	00004	13.4
310 (2)	04	FL1	B0001	C01	60.00	00007	11.8
292 (2)	04	FL1	B0026	C01	60.00	00001	12.8
292 (2)	04	FL1	B0031	C01	60.00	00005	8.3
292 (2)	04	FL1	G0039	C01	60.00	00002	8.2
292 (2)	04	FL1	G0039	C01	60.00	00003	5.8
292 (2)	04	FL1	G0039	C01	60.00	00004	7.2
292 (2)	04	FL1	G0039	C01	60.00	00006	9.3
292 (2)	05	FL1	B0001	C01	60.00	00012	11.4
292 (2)	05	FL1	B0026	C01	60.00	00008	12.9
292 (2)	05	FL1	B0026	C01	60.00	00009	12.0
292 (2)	05	FL1	B0026	C01	60.00	00010	14.2
292 (2)	05	FL1	B0026	C01	60.00	00011	11.6
292 (2)	05	FL1	B0027	C01	60.00	00001	17.0
292 (2)	05	FL1	B0027	C01	60.00	00002	12.0
292 (2)	05	FL1	B0027	C01	60.00	00003	10.9
292 (2)	05	FL1	B0027	C01	60.00	00004	11.7
292 (2)	05	FL1	B0027	C01	60.00	00005	12.5
292 (2)	05	FL1	B0027	C01	60.00	00006	11.8
292 (2)	05	FL1	B0027	C01	60.00	00007	11.7
292 (2)	05	FL1	B0027	C01	60.00	00013	13.5
310 (2)	06	FL1	B0026	C01	60.00	00001	14.0
310 (2)	06	FL1	B0026	C01	60.00	00002	15.2
310 (2)	06	FL1	B0026	C01	60.00	00005	13.0
310 (2)	06	FL1	B0027	C01	60.00	00003	12.2
310 (2)	06	FL1	B0027	C01	60.00	00004	11.8

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

03/24/98

Gamma Exposure Rate Measurements At 1 Meter

Survey Package : B0700 SURFACES & STRUCTURES
 Service Building Cold Side - Elevation 21 ft.

RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	RESULT
310 (2)	07	FL1	B0001	C01	60.00	00001	14.5
599 (2)	07	FL1	B0001	C01	60.00	00002	21.7
310 (2)	07	FL1	B0001	C01	60.00	00003	13.9
310 (2)	08	FL1	B0026	C01	60.00	00010	9.9
310 (2)	08	FL1	B0027	C01	60.00	00001	11.6
310 (2)	08	FL1	B0027	C01	60.00	00002	8.8
310 (2)	08	FL1	B0027	C01	60.00	00003	8.3
310 (2)	08	FL1	B0027	C01	60.00	00004	8.5
310 (2)	08	FL1	B0027	C01	60.00	00005	9.4
310 (2)	08	FL1	B0027	C01	60.00	00006	9.9
310 (2)	08	FL1	B0027	C01	60.00	00007	9.0
310 (2)	08	FL1	B0027	C01	60.00	00008	26.0
310 (2)	08	FL1	B0027	C01	60.00	00009	11.0

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



Maine Yankee Atomic Power Plant Site Characterization

DOWNLOAD FILE & SURVEY INSTRUMENTATION CALIBRATION SUMMARY

03/24/98

Gamma Exposure Rate Measurements At 1 Meter

Survey Package : B0700 SURFACES & STRUCTURES
 Service Building Cold Side - Elevation 21 ft.

SURVEY DATE	FILE #	M2350		DETECTOR			TECHNICIAN
		INST S/N	CAL DUE	MODEL	S/N	CAL DUE	
1/5/98	292 (2)	126170	6/10/98	44-2	092400	6/11/98	MBK5187
CALIBRATION DATES VERIFIED AS ACCEPTABLE							
1/6/98	310 (2)	126170	6/10/98	44-2	092400	6/11/98	MBK5187
CALIBRATION DATES VERIFIED AS ACCEPTABLE							
2/13/98	599 (2)	129401	6/10/98	44-2	129298	6/11/98	GLL9768
CALIBRATION DATES VERIFIED AS ACCEPTABLE							



Maine Yankee Atomic Power Plant Site Characterization

04/01/98

CHARACTERIZATION SUMMARY

SURVEY PACKAGE NUMBER :B0800

SURFACES & STRUCTURES

PACKAGE DESCRIPTION

Fuel Oil Building - Elevation 21 ft.

 SURVEY AREA DESCRIPTION

Fuel Oil Building

 GENERAL HISTORICAL INFORMATION (Operational history, etc.)

The Fuel Oil Building was constructed in 1992 to house two (5000 gallon) diesel fuel storage tanks. The building is bare (unpainted), concrete floor, walls and ceiling.

 SUMMARY OF CHARACTERIZATION ACTIVITIES

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

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

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

Collected smear samples to analyze for removable alpha and beta activity at the same 36 survey locations of direct measurements for total beta activity.

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

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

 CHARACTERIZATION SURVEY RESULTS

- o There were no direct measurements for total beta activity above MDA (587 dpm/100cm²).
- o There were 3 measurements for removable beta activity above MDA (16.2 dpm/100cm²) and no result greater than 100 dpm/100cm². The maximum measurement result was 20 dpm/100cm².
- o There were no measurements for removable alpha activity above MDA (6.7 dpm/100cm²).
- o The average and maximum one meter exposure rate measurement results were 8.4 μ R/hr and 9.9 μ R/hr respectively.

 REFERENCES (Documents, Interviews)



Maine Yankee Atomic Power Plant Site Characterization

SUMMARY OF SURVEY UNIT(S)

03/22/98

OUTPUT BATCH SN = 193

PACKAGE B0800 SURFACES & STRUCTURES
 Fuel Oil Building - Elevation 21 ft.

UNIT(S)	SURFACE(S)
01 - Fuel Oil Building	CL1 (Ceiling) EQ1 (Equipment: West Tank) EQ2 (Equipment: Pumps for the West Tank) EQ3 (Equipment: East Tank) EQ4 (Equipment: Pumps for the East Tank) FL1 (Floor) WS1 (Walls)

REASON(S) CHARACTERIZATION SURVEY (C01)

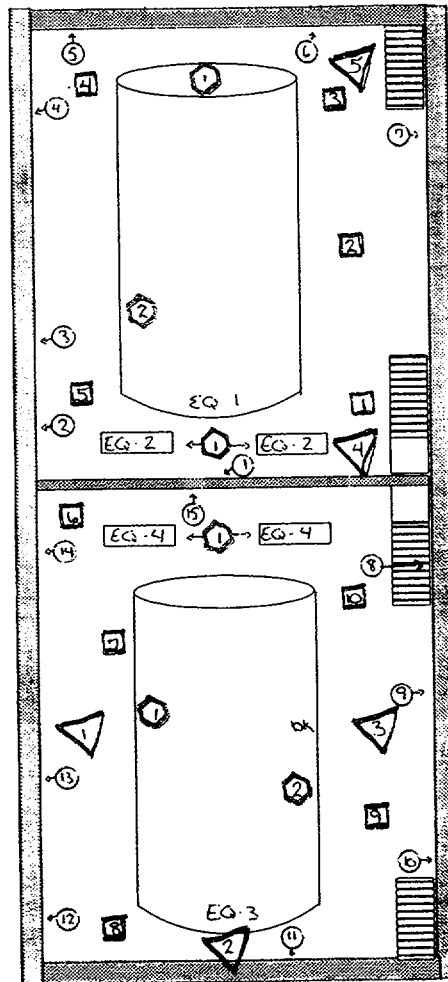
MATERIALS	MAT'L CODE	MATERIAL DESCRIPTION	BETA BKGD (dpm/100 cm ²)
	B0002	CONCRETE - BARE (INTERIOR)	665.0
	B0036	METAL - PAINTED	0.0

Maine Yankee Atomic Power Plant Site Characterization

SURVEY PACKAGE B0800

Fuel Oil Storage Building

- B08 -
- ⊙ - survey locations on walls
 - ⊠ - survey locations on floors
 - ⊕ - survey locations on equipment
 - △ - survey locations on ceilings
 - bk - background locations
- SURVEY UNIT #01



North →



Maine Yankee Atomic Power Plant Site Characterization

03/22/98

Direct Measurements For Total Beta Activity

Survey Package B0800 SURFACES & STRUCTURES
 Fuel Oil Building - Elevation 21 ft.

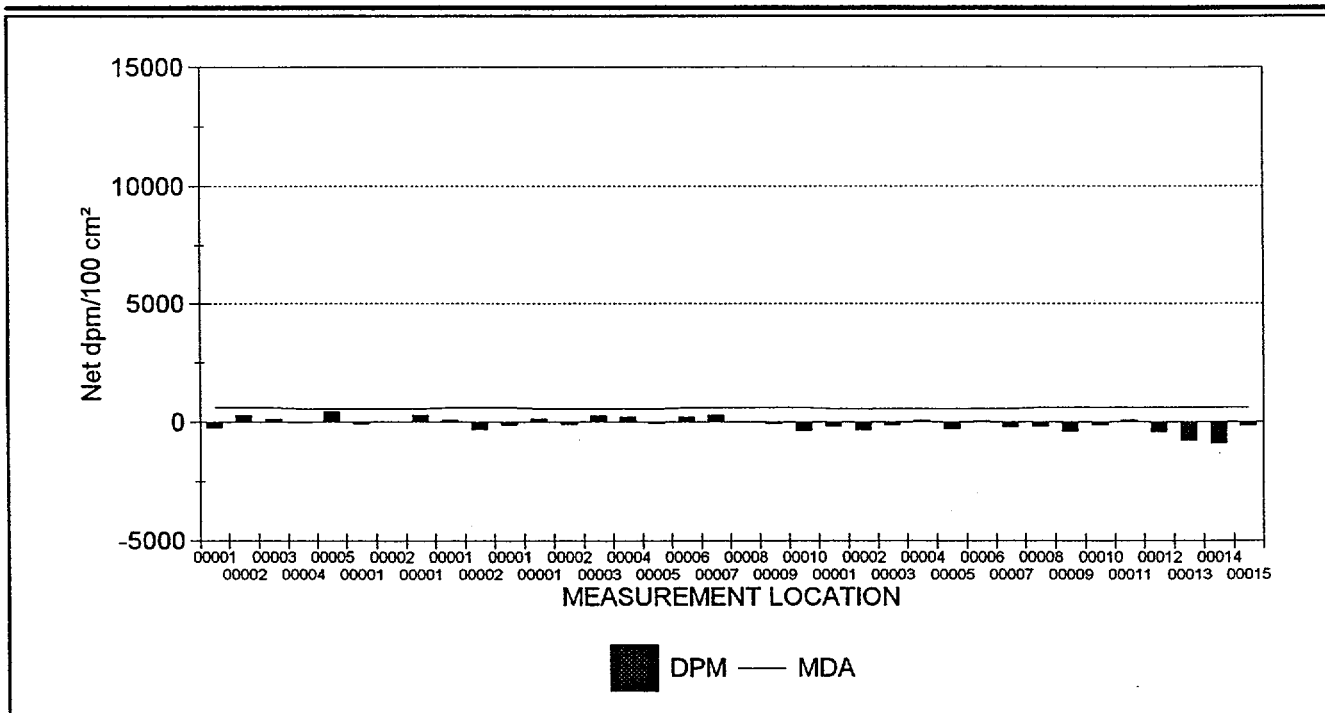
STATISTICAL SUMMARY

TESTS PERFORMED

	Net dpm/100 cm ²
Mean	-82.7
Maximum	451.4
Minimum	-919.3
Standard Deviation	286.0
MDA	586.6

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	0

Samples Reported	36
Samples Prescribed	36



36 RESULTS ARE GRAPHED



Maine Yankee Atomic Power Plant Site Characterization

03/22/98

Direct Measurements For Total Beta Activity

Survey Package : B0800 SURFACES & STRUCTURES
 Fuel Oil Building - Elevation 21 ft.

RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	MDA	RESULT
279 (2)	01	CL1	B0002	C01	10	00001	586.6	-230.2
279 (2)	01	CL1	B0002	C01	10	00002	586.6	286.7
279 (2)	01	CL1	B0002	C01	10	00003	586.6	139.0
280 (2)	01	CL1	B0002	C01	10	00004	550.3	-32.3
280 (2)	01	CL1	B0002	C01	10	00005	550.3	451.4
280 (2)	01	EQ1	B0036	C01	10	00001	550.3	-81.3
280 (2)	01	EQ1	B0036	C01	10	00002	550.3	-12.2
280 (2)	01	EQ2	B0036	C01	10	00001	550.3	287.3
279 (2)	01	EQ3	B0036	C01	10	00001	586.6	65.6
279 (2)	01	EQ3	B0036	C01	10	00002	586.6	-303.5
279 (2)	01	EQ4	B0036	C01	10	00001	586.6	-131.3
280 (2)	01	FL1	B0002	C01	10	00001	550.3	129.0
280 (2)	01	FL1	B0002	C01	10	00002	550.3	-101.4
280 (2)	01	FL1	B0002	C01	10	00003	550.3	267.2
280 (2)	01	FL1	B0002	C01	10	00004	550.3	198.1
280 (2)	01	FL1	B0002	C01	10	00005	550.3	-55.3
279 (2)	01	FL1	B0002	C01	10	00006	586.6	212.8
279 (2)	01	FL1	B0002	C01	10	00007	586.6	286.7
279 (2)	01	FL1	B0002	C01	10	00008	586.6	-8.7
279 (2)	01	FL1	B0002	C01	10	00009	586.6	-82.5
279 (2)	01	FL1	B0002	C01	10	00010	586.6	-353.3
280 (2)	01	WS1	B0002	C01	10	00001	550.3	-193.5
280 (2)	01	WS1	B0002	C01	10	00002	550.3	-331.7
280 (2)	01	WS1	B0002	C01	10	00003	550.3	-124.4
280 (2)	01	WS1	B0002	C01	10	00004	550.3	82.9
280 (2)	01	WS1	B0002	C01	10	00005	550.3	-285.6
280 (2)	01	WS1	B0002	C01	10	00006	550.3	59.9
280 (2)	01	WS1	B0002	C01	10	00007	550.3	-216.5
279 (2)	01	WS1	B0002	C01	10	00008	586.6	-181.0
279 (2)	01	WS1	B0002	C01	10	00009	586.6	-377.9
279 (2)	01	WS1	B0002	C01	10	00010	586.6	-131.7
279 (2)	01	WS1	B0002	C01	10	00011	586.6	65.1
279 (2)	01	WS1	B0002	C01	10	00012	586.6	-427.1
279 (2)	01	WS1	B0002	C01	10	00013	586.6	-771.7
279 (2)	01	WS1	B0002	C01	10	00014	586.6	-919.3
279 (2)	01	WS1	B0002	C01	10	00015	586.6	-156.4

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.
 36 results are listed.



Maine Yankee Atomic Power Plant Site Characterization

DOWNLOAD FILE & SURVEY INSTRUMENTATION CALIBRATION SUMMARY

03/22/98

Direct Measurements For Total Beta Activity

Survey Package : B0800 SURFACES & STRUCTURES
 Fuel Oil Building - Elevation 21 ft.

SURVEY DATE	FILE #	M2350		DETECTOR			PRE EFF	TECHNICIAN
		INST S/N	CAL DUE	MODEL	S/N	CAL DUE		
1/5/98	279 (2)	98620	3/20/98	43-106	128919	3/20/98	.19	DRK2986
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
1/5/98	280 (2)	126201	4/15/98	43-106	133858	5/3/98	.21	BSM0490
CALIBRATION DATES VERIFIED AS ACCEPTABLE								



Maine Yankee Atomic Power Plant Site Characterization

03/22/98

Removable Contamination - Gross Beta Activity

Survey Package B0800 SURFACES & STRUCTURES
 Fuel Oil Building - Elevation 21 ft.

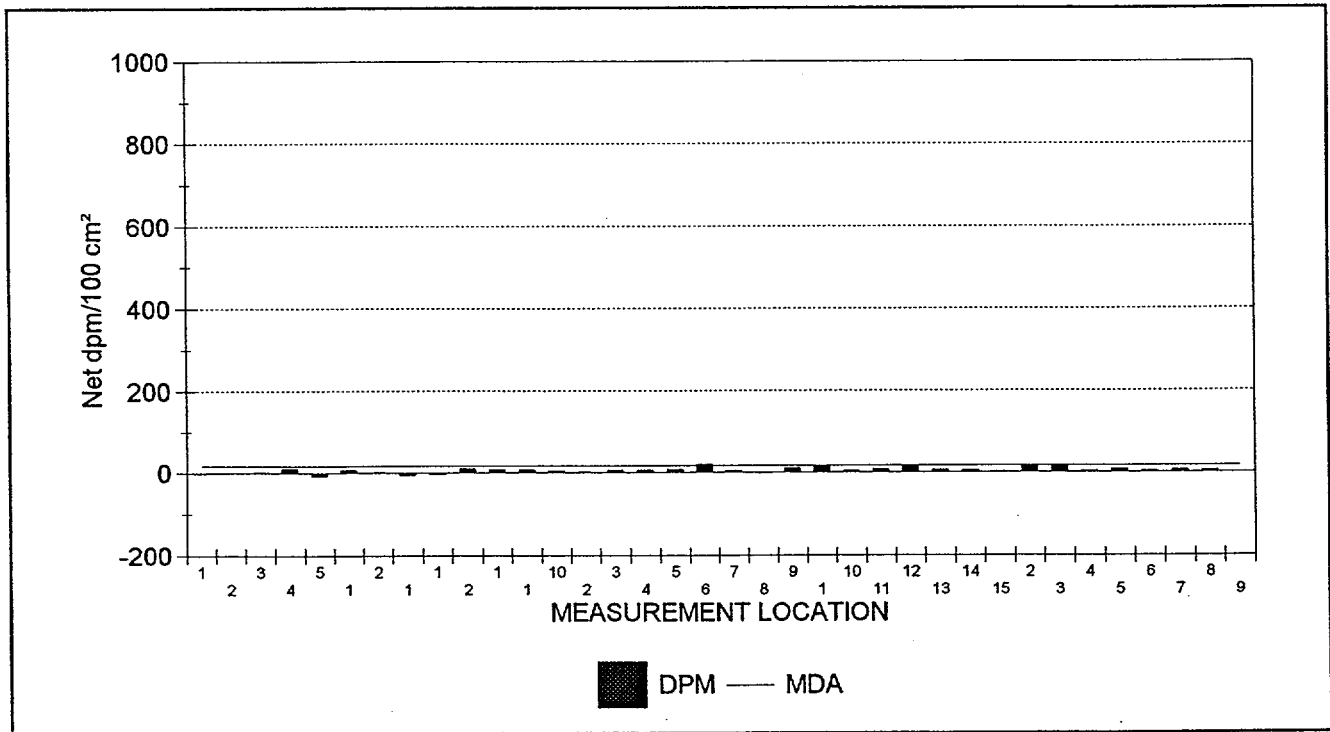
STATISTICAL SUMMARY

TESTS PERFORMED

	Net dpm/100 cm ²
Mean	5.5
Maximum	19.9
Minimum	-7.1
Standard Deviation	6.1
MDA	16.2

Samples reported satisfy samples prescribed	YES
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	36
Samples Prescribed	36



36 RESULTS ARE GRAPHED



Maine Yankee Atomic Power Plant Site Characterization

03/22/98

Removable Contamination - Gross Alpha Activity

Survey Package B0800 SURFACES & STRUCTURES
 Fuel Oil Building - Elevation 21 ft.

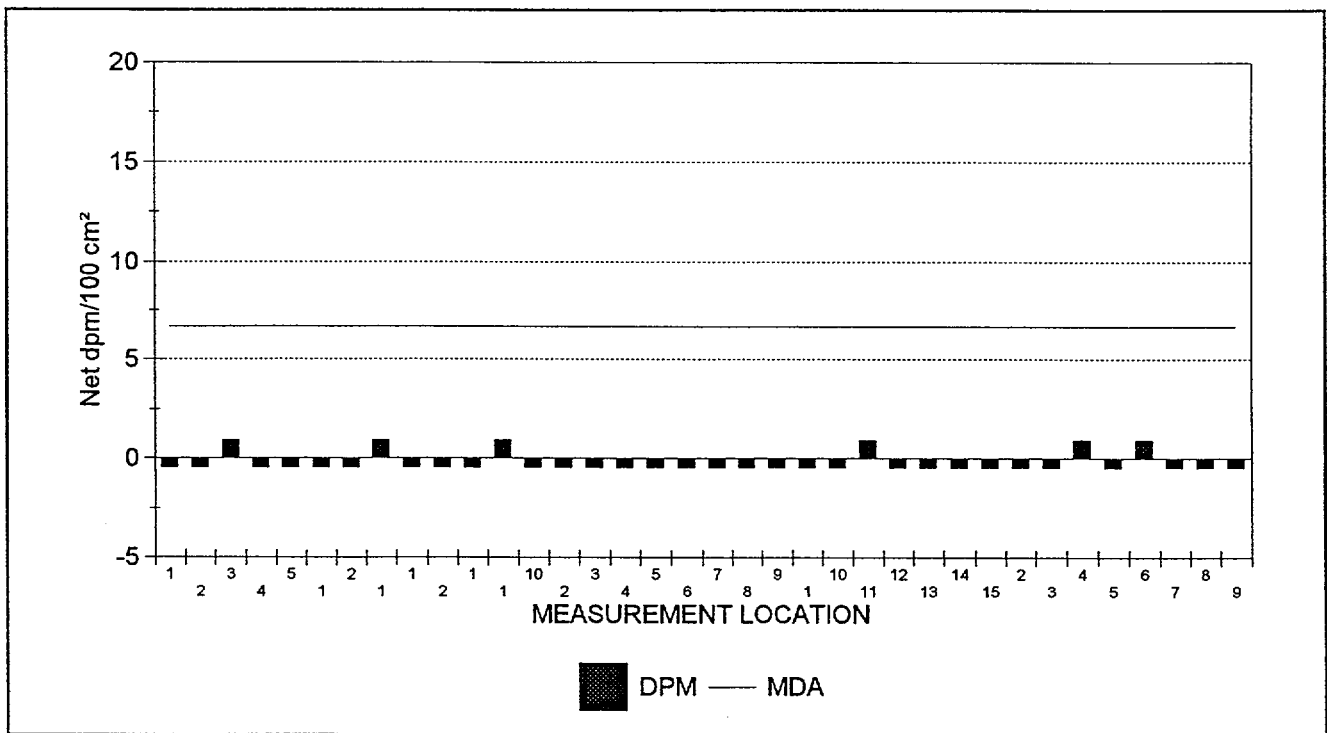
STATISTICAL SUMMARY

TESTS PERFORMED

	Net dpm/100 cm ²
Mean	-0.2
Maximum	0.9
Minimum	-0.5
Standard Deviation	0.5
MDA	6.7

Samples reported satisfy samples prescribed	YES
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	36
Samples Prescribed	36



36 RESULTS ARE GRAPHED



Maine Yankee Atomic Power Plant Site Characterization

03/22/98

Removable Contamination

Survey Package: B0800 SURFACES & STRUCTURES
 Fuel Oil Building - Elevation 21 ft.

RESULTS LISTING - SORTED BY SURFACE CODE

XLS FILE	UNIT	SURFACE	REASON	COUNT TIME	MSRMNT LOCATION	ALPHA	BETA
SME1B035.XLS	01	WS1	C01	2	9	-0.5	-0.3
SME1B035.XLS	01	WS1	C01	2	8	-0.5	4.7
SME1B035.XLS	01	WS1	C01	2	7	-0.5	6.4
SME1B035.XLS	01	WS1	C01	2	6	0.9	3.0
SME1B035.XLS	01	WS1	C01	2	5	-0.5	8.1
SME1B035.XLS	01	WS1	C01	2	4	0.9	3.0
SME1B035.XLS	01	WS1	C01	2	3	-0.5	13.1
SME1B035.XLS	01	WS1	C01	2	2	-0.5	14.8
SME1B035.XLS	01	WS1	C01	2	15	-0.5	1.3
SME1B035.XLS	01	WS1	C01	2	14	-0.5	4.7
SME1B035.XLS	01	WS1	C01	2	13	-0.5	6.4
SME1B035.XLS	01	WS1	C01	2	12	-0.5	16.5
SME1B035.XLS	01	WS1	C01	2	11	0.9	8.1
SME1B035.XLS	01	WS1	C01	2	10	-0.5	4.7
SME1B035.XLS	01	WS1	C01	2	1	-0.5	16.5
SME1B035.XLS	01	FL1	C01	2	9	-0.5	9.8
SME1B035.XLS	01	FL1	C01	2	8	-0.5	-2.0
SME1B035.XLS	01	FL1	C01	2	7	-0.5	4.7
SME1B035.XLS	01	FL1	C01	2	6	-0.5	19.9
SME1B035.XLS	01	FL1	C01	2	5	-0.5	8.1
SME1B035.XLS	01	FL1	C01	2	4	-0.5	6.4
SME1B035.XLS	01	FL1	C01	2	3	-0.5	6.4
SME1B035.XLS	01	FL1	C01	2	2	-0.5	1.3
SME1B035.XLS	01	FL1	C01	2	10	-0.5	4.7
SME1B035.XLS	01	FL1	C01	2	1	0.9	8.1
SME1B035.XLS	01	EQ4	C01	2	1	-0.5	8.1
SME1B035.XLS	01	EQ3	C01	2	2	-0.5	9.8
SME1B035.XLS	01	EQ3	C01	2	1	-0.5	-3.7
SME1B035.XLS	01	EQ2	C01	2	1	0.9	-5.4
SME1B035.XLS	01	EQ1	C01	2	2	-0.5	1.3
SME1B035.XLS	01	EQ1	C01	2	1	-0.5	8.1
SME1B035.XLS	01	CL1	C01	2	5	-0.5	-7.1
SME1B035.XLS	01	CL1	C01	2	4	-0.5	9.8
SME1B035.XLS	01	CL1	C01	2	3	0.9	1.3
SME1B035.XLS	01	CL1	C01	2	2	-0.5	-0.3
SME1B035.XLS	01	CL1	C01	2	1	-0.5	-2.0

NOTES: Activity reported in net dpm/100 cm². Count times are reported in minutes.
 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).
 36 results are listed.



Maine Yankee Atomic Power Plant Site Characterization

DATAFILE & TENNELEC CALIBRATION SUMMARY

03/22/98

Removable Contamination

Survey Package : B0800 SURFACES & STRUCTURES
Fuel Oil Building - Elevation 21 ft.

SURVEYDATE	XLS FILE	INST ID	S/N	CAL DUE	LAB TECHNICIAN
2/10/98	SME1B035.XLS	1	14131	8/7/98	RWD

CALIBRATION DATE VERIFIED AS ACCEPTABLE



Maine Yankee Atomic Power Plant Site Characterization

03/22/98

Gamma Exposure Rate Measurements At 1 Meter

Survey Package B0800 SURFACES & STRUCTURES
 Fuel Oil Building - Elevation 21 ft.

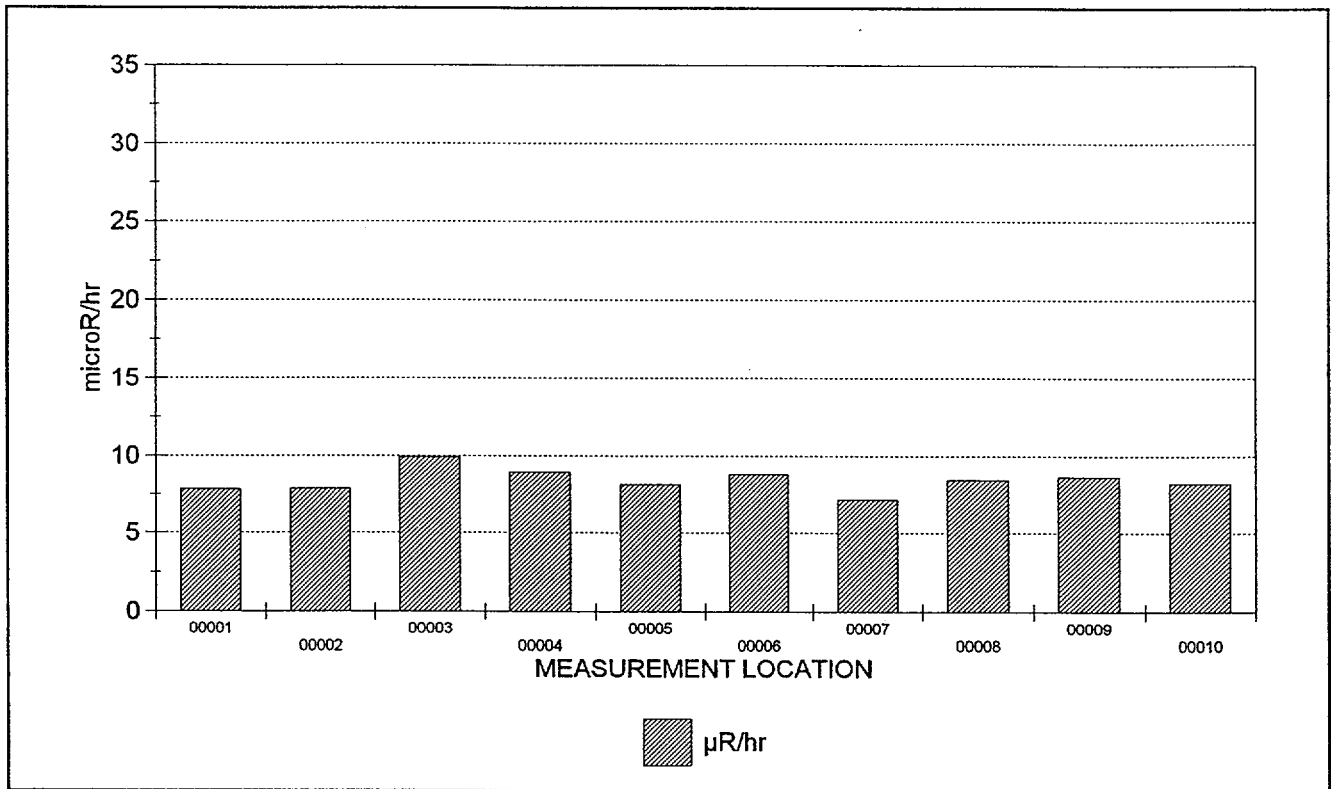
STATISTICAL SUMMARY

TESTS PERFORMED

	$\mu\text{R/hr}$
Mean	8.4
Maximum	9.9
Minimum	7.2
Standard Deviation	0.8

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

Samples Reported	10
Samples Prescribed	10



10 RESULTS ARE GRAPHED



Maine Yankee Atomic Power Plant Site Characterization

03/22/98

Gamma Exposure Rate Measurements At 1 Meter

Survey Package : B0800 SURFACES & STRUCTURES
 Fuel Oil Building - Elevation 21 ft.

RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	RESULT
284 (2)	01	FL1	B0002	C01	60.00	00001	7.8
284 (2)	01	FL1	B0002	C01	60.00	00002	7.8
284 (2)	01	FL1	B0002	C01	60.00	00003	9.9
284 (2)	01	FL1	B0002	C01	60.00	00004	8.9
284 (2)	01	FL1	B0002	C01	60.00	00005	8.1
284 (2)	01	FL1	B0002	C01	60.00	00006	8.8
284 (2)	01	FL1	B0002	C01	60.00	00007	7.2
284 (2)	01	FL1	B0002	C01	60.00	00008	8.4
284 (2)	01	FL1	B0002	C01	60.00	00009	8.6
284 (2)	01	FL1	B0002	C01	60.00	00010	8.2

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.
 10 results are listed.



Maine Yankee Atomic Power Plant Site Characterization

DOWNLOAD FILE & SURVEY INSTRUMENTATION CALIBRATION SUMMARY

03/22/98

Gamma Exposure Rate Measurements At 1 Meter

Survey Package : B0800 SURFACES & STRUCTURES
 Fuel Oil Building - Elevation 21 ft.

SURVEY DATE	FILE #	M2350		DETECTOR			TECHNICIAN
		INST S/N	CAL DUE	MODEL	S/N	CAL DUE	
1/5/98	284 (2)	98620	3/20/98	44-2	129304	4/19/98	DRK2986

CALIBRATION DATES VERIFIED AS ACCEPTABLE



Maine Yankee Atomic Power Plant Site Characterization

04/01/98

CHARACTERIZATION SUMMARY

SURVEY PACKAGE NUMBER :B0900

SURFACES & STRUCTURES

PACKAGE DESCRIPTION
Room 1 and Room 2

Emergency Diesel Generators - Elevation 21 ft.

SURVEY AREA DESCRIPTION

Emergency Diesel Generators (1&2)

GENERAL HISTORICAL INFORMATION (Operational history, etc.)

Two emergency diesel generators are located in two adjacent rooms which are on the south end of the Turbine Building 21'. The construction of this area is mostly painted concrete for the floor, and concrete block walls and ceilings. Diamond plates are used on the floor to cover electrical trenches and gratings are placed over the sump trenches in each room.

SUMMARY OF CHARACTERIZATION ACTIVITIES

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

Performed a scan of approximately five square meters at 50 survey measurement locations indicated on the survey map(s). This was approximately 10% of the accessible surface area.

Collected direct measurements for total beta activity at 50 survey measurement locations at the highest location identified in the scan. If an elevated location was not observed, the measurement was collected at an arbitrary location, selected by the technician, within the five square meter scanned area.

Collected smear samples to analyze for removable alpha and beta activity at the same 50 survey locations of direct measurements for total beta activity.

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

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

CHARACTERIZATION SURVEY RESULTS

- o There were no direct measurements for total beta activity above MDA (683 dpm/100cm²).
- o There was 1 measurements for removable beta activity above MDA (16.2 dpm/100cm²) and no result greater than 100 dpm/100cm². The maximum measurement result was 20 dpm/100cm².
- o There were no measurements for removable alpha activity above MDA (6.7 dpm/100cm²).
- o The average and maximum one meter exposure rate measurement results were 10.8 µR/hr and 13.1 µR/hr respectively.

REFERENCES (Documents, Interviews)



Maine Yankee Atomic Power Plant Site Characterization

SUMMARY OF SURVEY UNIT(S)

03/22/98

OUTPUT BATCH SN = 194

PACKAGE B0900 SURFACES & STRUCTURES
 Emergency Diesel Generators - Elevation 21 ft.
 Room 1 and Room 2

UNIT(S)	SURFACE(S)
01 - Emergency Diesel Generator Room 1	CL1 (Ceiling) EQ1 (Equipment) FL1 (Floor) WS1 (Walls)
02 - Emergency Diesel Generator Room 2	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
	B0036	METAL - PAINTED	0.0

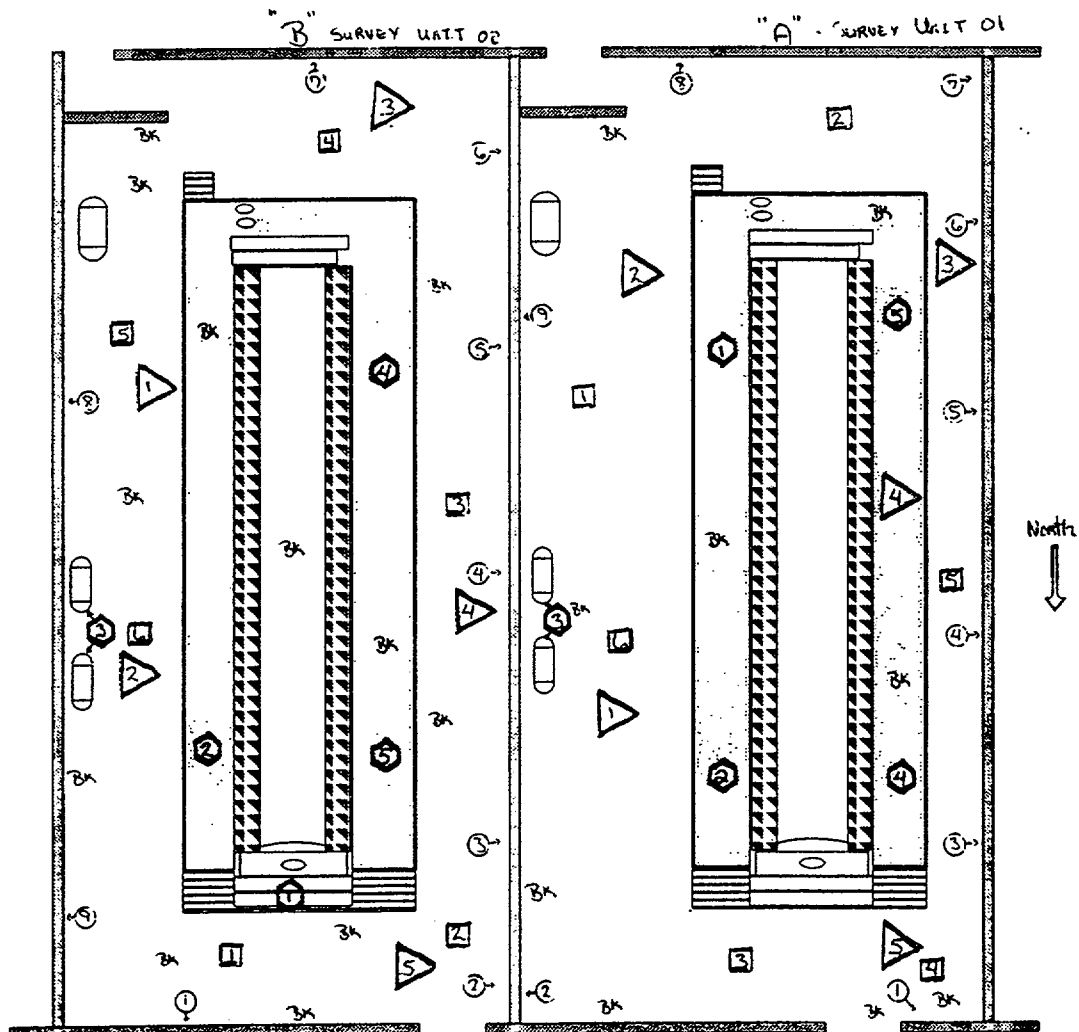
Maine Yankee Atomic Power Plant Site Characterization

SURVEY PACKAGE B0900

B09 -

- ⊙ - survey locations on walls
- ⊠ - survey locations on floors
- ⊕ - survey locations on equipment
- ▽ - survey locations on ceilings
- ⊗ - background locations

Emergency Diesel Generators





Maine Yankee Atomic Power Plant Site Characterization

03/22/98

Direct Measurements For Total Beta Activity

Survey Package B0900 SURFACES & STRUCTURES
 Emergency Diesel Generators - Elevation 21 ft.
 Room 1 and Room 2

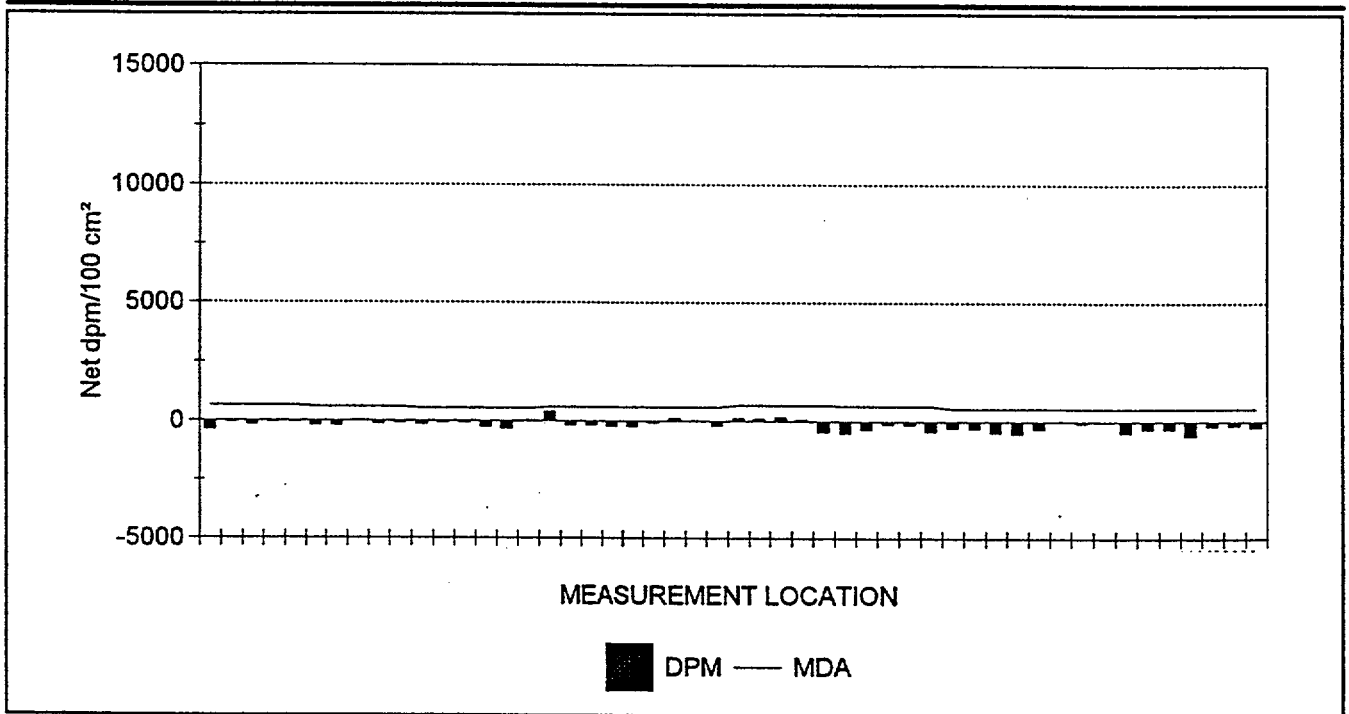
STATISTICAL SUMMARY

TESTS PERFORMED

	Net dpm/100 cm ²
Mean	-176.9
Maximum	411.9
Minimum	-637.8
Standard Deviation	209.8
MDA	683.0

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	0

Samples Reported	50
Samples Prescribed	50



50 RESULTS ARE GRAPHED



Maine Yankee Atomic Power Plant Site Characterization

03/22/98

Direct Measurements For Total Beta Activity

Survey Package : B0900 SURFACES & STRUCTURES
 Emergency Diesel Generators - Elevation 21 ft.
 Room 1 and Room 2

RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	MDA	RESULT
273 (2)	01	CL1	B0001	C01	10	00001	648.6	-398.1
273 (2)	01	CL1	B0001	C01	10	00002	648.6	-47.3
273 (2)	01	CL1	B0001	C01	10	00003	648.6	-187.6
273 (2)	01	CL1	B0001	C01	10	00004	648.6	-47.3
273 (2)	01	CL1	B0001	C01	10	00005	648.6	-47.3
259 (2)	01	EQ1	B0036	C01	10	00001	590.0	-200.7
259 (2)	01	EQ1	B0036	C01	10	00002	590.0	-200.7
259 (2)	01	EQ1	B0036	C01	10	00003	590.0	26.5
259 (2)	01	EQ1	B0036	C01	10	00004	590.0	-132.5
259 (2)	01	EQ1	B0036	C01	10	00005	590.0	-87.1
263 (2)	01	FL1	B0001	C01	10	00001	557.0	-160.5
263 (2)	01	FL1	B0001	C01	10	00002	557.0	-88.9
263 (2)	01	FL1	B0001	C01	10	00004	557.0	-88.9
263 (2)	01	FL1	B0001	C01	10	00005	557.0	-255.9
263 (2)	01	FL1	B0001	C01	10	00006	557.0	-327.5
263 (2)	01	FL1	B0036	C01	10	00003	557.0	31.2
259 (2)	01	WS1	B0001	C01	10	00001	590.0	411.9
259 (2)	01	WS1	B0001	C01	10	00002	590.0	-178.9
259 (2)	01	WS1	B0001	C01	10	00003	590.0	-178.9
259 (2)	01	WS1	B0001	C01	10	00004	590.0	-224.3
259 (2)	01	WS1	B0001	C01	10	00005	590.0	-224.3
259 (2)	01	WS1	B0001	C01	10	00006	590.0	-65.3
259 (2)	01	WS1	B0001	C01	10	00007	590.0	139.2
259 (2)	01	WS1	B0001	C01	10	00008	590.0	25.6
259 (2)	01	WS1	B0001	C01	10	00009	590.0	-201.6
271 (2)	02	CL1	B0001	C01	10	00001	683.0	120.2
271 (2)	02	CL1	B0001	C01	10	00002	683.0	96.3
271 (2)	02	CL1	B0001	C01	10	00003	683.0	191.9
271 (2)	02	CL1	B0001	C01	10	00004	683.0	72.4
271 (2)	02	CL1	B0001	C01	10	00005	683.0	-477.3
273 (2)	02	EQ1	B0036	C01	10	00001	648.6	-528.1
273 (2)	02	EQ1	B0036	C01	10	00002	648.6	-364.4
273 (2)	02	EQ1	B0036	C01	10	00003	648.6	-130.6
273 (2)	02	EQ1	B0036	C01	10	00004	648.6	-154.0
273 (2)	02	EQ1	B0036	C01	10	00005	648.6	-434.6
263 (2)	02	FL1	B0001	C01	10	00002	557.0	-279.8
263 (2)	02	FL1	B0001	C01	10	00003	557.0	-303.6
263 (2)	02	FL1	B0001	C01	10	00004	557.0	-494.6
263 (2)	02	FL1	B0001	C01	10	00005	557.0	-542.3
263 (2)	02	FL1	B0001	C01	10	00006	557.0	-351.4

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

03/22/98

Direct Measurements For Total Beta Activity

Survey Package : B0900 SURFACES & STRUCTURES
 Emergency Diesel Generators - Elevation 21 ft.
 Room 1 and Room 2

RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	MDA	RESULT
263 (2)	02	FL1	B0036	C01	10	00001	557.0	7.3
263 (2)	02	WS1	B0001	C01	10	00001	557.0	-88.9
263 (2)	02	WS1	B0001	C01	10	00002	557.0	-17.3
263 (2)	02	WS1	B0001	C01	10	00003	557.0	-494.6
263 (2)	02	WS1	B0001	C01	10	00004	557.0	-327.5
263 (2)	02	WS1	B0001	C01	10	00005	557.0	-351.4
263 (2)	02	WS1	B0001	C01	10	00006	557.0	-637.8
263 (2)	02	WS1	B0001	C01	10	00007	557.0	-208.2
263 (2)	02	WS1	B0001	C01	10	00008	557.0	-184.3
263 (2)	02	WS1	B0001	C01	10	00009	557.0	-255.9

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.
 50 results are listed.



Maine Yankee Atomic Power Plant Site Characterization

DOWNLOAD FILE & SURVEY INSTRUMENTATION CALIBRATION SUMMARY

03/22/98

Direct Measurements For Total Beta Activity

Survey Package : B0900 SURFACES & STRUCTURES
 Emergency Diesel Generators - Elevation 21 ft.
 Room 1 and Room 2

SURVEY DATE	FILE #	M2350		DETECTOR			PRE EFF	TECHNICIAN
		INST S/N	CAL DUE	MODEL	S/N	CAL DUE		
1/1/98	259 (2)	126201	4/15/98	43-106	133858	5/3/98	.21	BSM0490
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
1/1/98	263 (2)	98620	3/20/98	43-106	128919	3/20/98	.20	DRK2986
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
1/2/98	271 (2)	98620	3/20/98	43-106	128919	3/20/98	.20	DRK2986
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
1/2/98	273 (2)	126201	4/15/98	43-106	133858	5/3/98	.20	BSM0490
CALIBRATION DATES VERIFIED AS ACCEPTABLE								



Maine Yankee Atomic Power Plant Site Characterization

03/22/98

Removable Contamination - Gross Beta Activity

Survey Package B0900 SURFACES & STRUCTURES
 Emergency Diesel Generators - Elevation 21 ft.
 Room 1 and Room 2

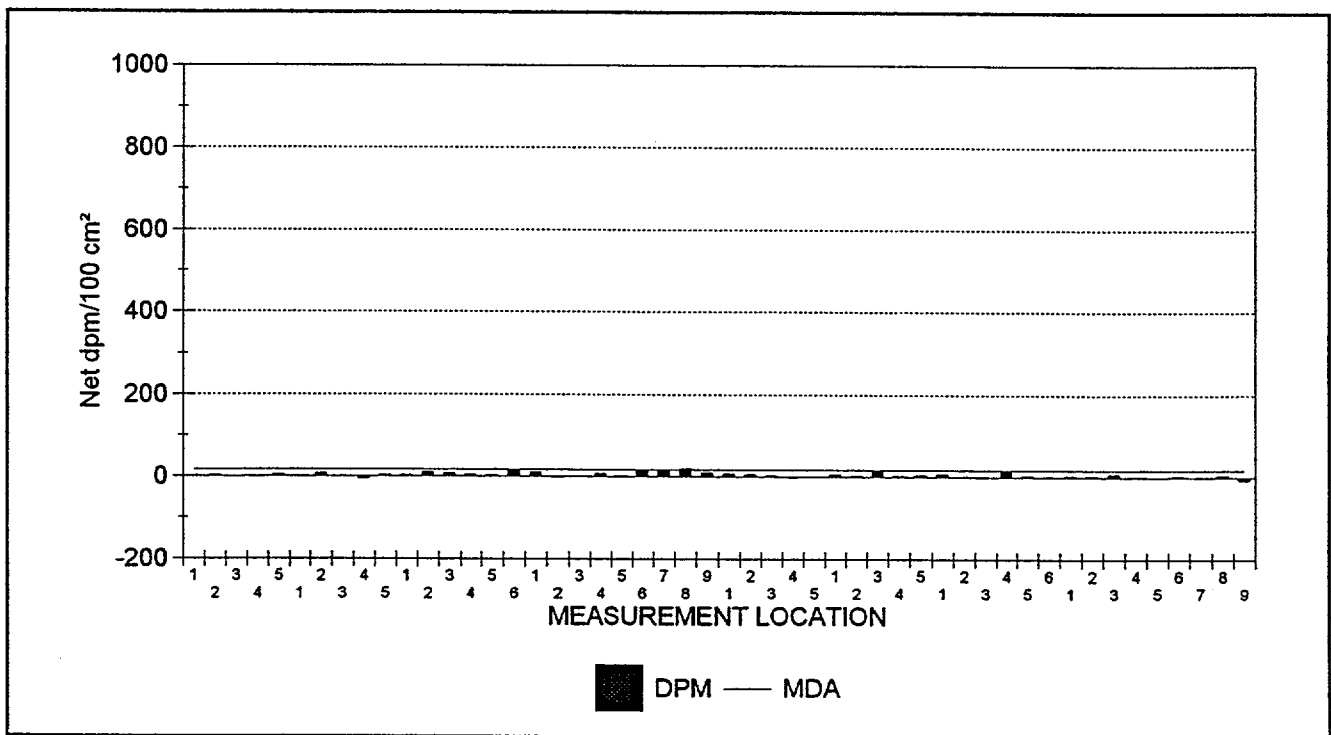
STATISTICAL SUMMARY

TESTS PERFORMED

	Net dpm/100 cm ²
Mean	4.3
Maximum	19.9
Minimum	-7.1
Standard Deviation	5.6
MDA	16.2

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

Samples Reported	50
Samples Prescribed	50



50 RESULTS ARE GRAPHED



Maine Yankee Atomic Power Plant Site Characterization

03/22/98

Removable Contamination - Gross Alpha Activity

Survey Package B0900 SURFACES & STRUCTURES
 Emergency Diesel Generators - Elevation 21 ft.
 Room 1 and Room 2

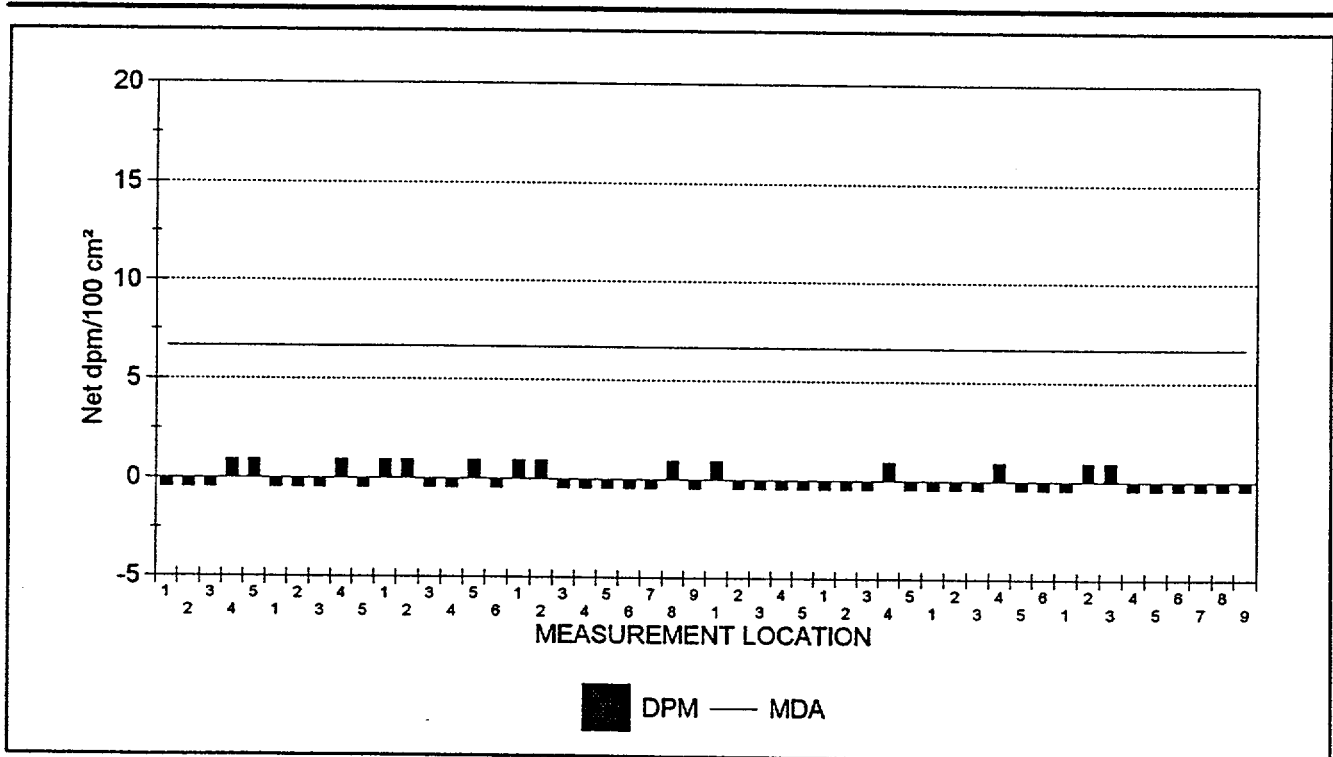
STATISTICAL SUMMARY

TESTS PERFORMED

	Net dpm/100 cm ²
Mean	-0.1
Maximum	0.9
Minimum	-0.5
Standard Deviation	0.6
MDA	6.7

Samples reported satisfy samples prescribed	YES
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	50
Samples Prescribed	50



50 RESULTS ARE GRAPHED



Maine Yankee Atomic Power Plant Site Characterization

03/22/98

Removable Contamination

Survey Package : B0900 SURFACES & STRUCTURES
 Emergency Diesel Generators - Elevation 21 ft.
 Room 1 and Room 2

RESULTS LISTING - SORTED BY SURFACE CODE

XLS FILE	UNIT	SURFACE	REASON	COUNT	MSRMNT	ALPHA	BETA
				TIME	LOCATION		
SME1B036.XLS	02	WS1	C01	2	9	-0.5	-7.1
SME1B036.XLS	02	WS1	C01	2	8	-0.5	4.7
SME1B036.XLS	02	WS1	C01	2	7	-0.5	-0.3
SME1B036.XLS	02	WS1	C01	2	6	-0.5	3.0
SME1B036.XLS	02	WS1	C01	2	5	-0.5	-2.0
SME1B036.XLS	02	WS1	C01	2	4	-0.5	1.3
SME1B036.XLS	02	WS1	C01	2	3	0.9	8.1
SME1B036.XLS	02	WS1	C01	2	2	0.9	3.0
SME1B036.XLS	02	WS1	C01	2	1	-0.5	3.0
SME1B036.XLS	02	FL1	C01	2	6	-0.5	1.3
SME1B036.XLS	02	FL1	C01	2	5	-0.5	3.0
SME1B036.XLS	02	FL1	C01	2	4	0.9	13.1
SME1B036.XLS	02	FL1	C01	2	3	-0.5	-0.3
SME1B036.XLS	02	FL1	C01	2	2	-0.5	1.3
SME1B036.XLS	02	FL1	C01	2	1	-0.5	8.1
SME1B036.XLS	02	EQ1	C01	2	5	-0.5	4.7
SME1B036.XLS	02	EQ1	C01	2	4	0.9	3.0
SME1B036.XLS	02	EQ1	C01	2	3	-0.5	14.8
SME1B036.XLS	02	EQ1	C01	2	2	-0.5	3.0
SME1B036.XLS	02	EQ1	C01	2	1	-0.5	6.4
SME1B036.XLS	02	CL1	C01	2	5	-0.5	-0.3
SME1B036.XLS	02	CL1	C01	2	4	-0.5	-2.0
SME1B036.XLS	02	CL1	C01	2	3	-0.5	3.0
SME1B036.XLS	02	CL1	C01	2	2	-0.5	6.4
SME1B036.XLS	02	CL1	C01	2	1	0.9	8.1
SME1B036.XLS	01	WS1	C01	2	9	-0.5	9.8
SME1B036.XLS	01	WS1	C01	2	8	0.9	19.9
SME1B036.XLS	01	WS1	C01	2	7	-0.5	14.8
SME1B036.XLS	01	WS1	C01	2	6	-0.5	13.1
SME1B036.XLS	01	WS1	C01	2	5	-0.5	1.3
SME1B036.XLS	01	WS1	C01	2	4	-0.5	8.1
SME1B036.XLS	01	WS1	C01	2	3	-0.5	-0.3
SME1B036.XLS	01	WS1	C01	2	2	0.9	-2.0
SME1B036.XLS	01	WS1	C01	2	1	0.9	9.8
SME1B036.XLS	01	FL1	C01	2	6	-0.5	14.8
SME1B036.XLS	01	FL1	C01	2	5	0.9	3.0
SME1B036.XLS	01	FL1	C01	2	4	-0.5	4.7
SME1B036.XLS	01	FL1	C01	2	3	-0.5	8.1
SME1B036.XLS	01	FL1	C01	2	2	0.9	9.8
SME1B036.XLS	01	FL1	C01	2	1	0.9	3.0

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

03/22/98

Removable Contamination

Survey Package : B0900 SURFACES & STRUCTURES
 Emergency Diesel Generators - Elevation 21 ft.
 Room 1 and Room 2

RESULTS LISTING - SORTED BY SURFACE CODE

XLS FILE	UNIT	SURFACE	REASON	COUNT	MSRMNT	ALPHA	BETA
				TIME	LOCATION		
SME1B036.XLS	01	EQ1	C01	2	5	-0.5	3.0
SME1B036.XLS	01	EQ1	C01	2	4	0.9	-5.4
SME1B036.XLS	01	EQ1	C01	2	3	-0.5	-0.3
SME1B036.XLS	01	EQ1	C01	2	2	-0.5	8.1
SME1B036.XLS	01	EQ1	C01	2	1	-0.5	-0.3
SME1B036.XLS	01	CL1	C01	2	5	0.9	4.7
SME1B036.XLS	01	CL1	C01	2	4	0.9	-2.0
SME1B036.XLS	01	CL1	C01	2	3	-0.5	-2.0
SME1B036.XLS	01	CL1	C01	2	2	-0.5	3.0
SME1B036.XLS	01	CL1	C01	2	1	-0.5	1.3

NOTES: Activity reported in net dpm/100 cm². Count times are reported in minutes.
 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).
 50 results are listed.



Maine Yankee Atomic Power Plant Site Characterization

DATAFILE & TENNELEC CALIBRATION SUMMARY

03/22/98

Removable Contamination

Survey Package : B0900 SURFACES & STRUCTURES
Emergency Diesel Generators - Elevation 21 ft.
Room 1 and Room 2

SURVEYDATE	XLS FILE	INST ID	S/N	CAL DUE	LAB TECHNICIAN
2/10/98	SME1B036.XLS	1	14131	8/7/98	SNM

CALIBRATION DATE VERIFIED AS ACCEPTABLE



Maine Yankee Atomic Power Plant Site Characterization

03/22/98

Gamma Exposure Rate Measurements At 1 Meter

Survey Package B0900 SURFACES & STRUCTURES
 Emergency Diesel Generators - Elevation 21 ft.
 Room 1 and Room 2

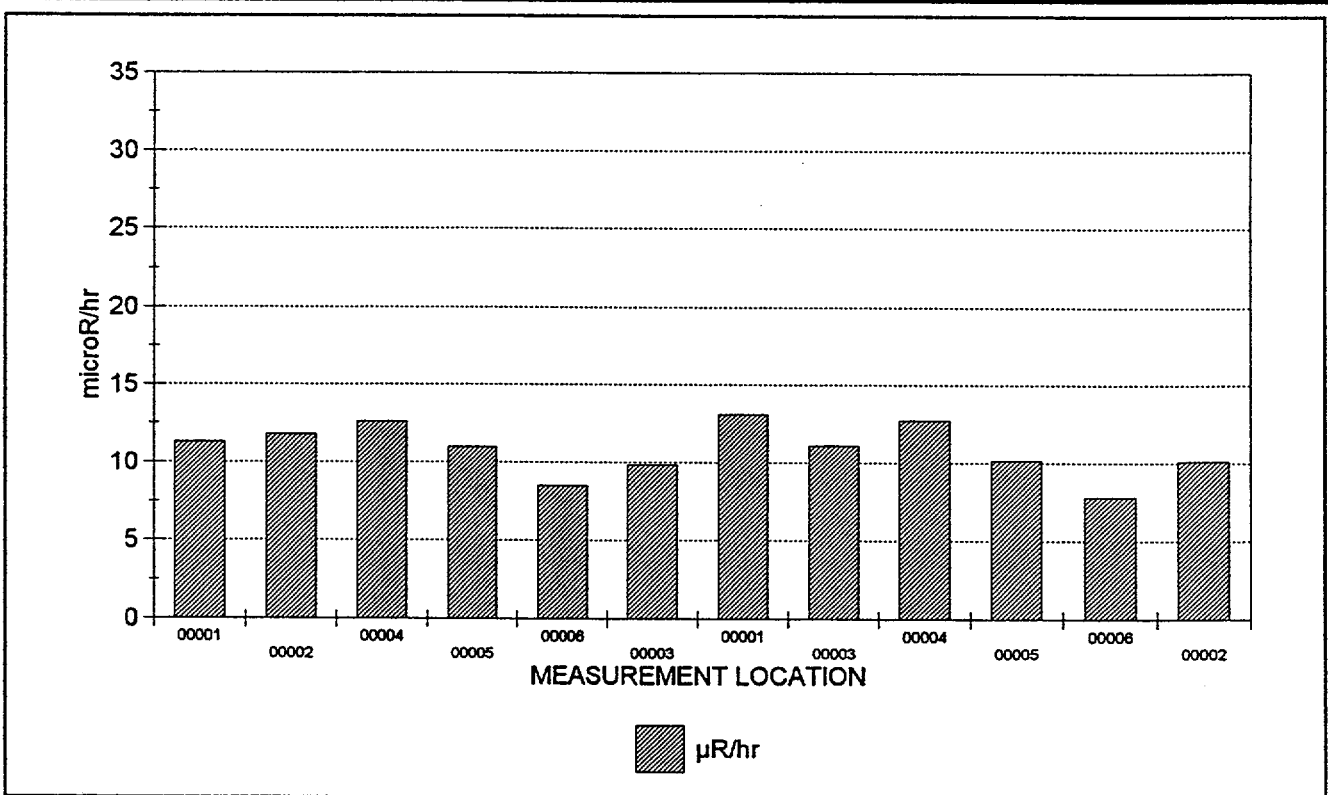
STATISTICAL SUMMARY

TESTS PERFORMED

	$\mu\text{R/hr}$
Mean	10.8
Maximum	13.1
Minimum	7.8
Standard Deviation	1.6

Samples reported satisfy samples prescribed	YES
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Samples Reported	12
Samples Prescribed	12



12 RESULTS ARE GRAPHED



Maine Yankee Atomic Power Plant Site Characterization

03/22/98

Gamma Exposure Rate Measurements At 1 Meter

Survey Package : B0900 SURFACES & STRUCTURES
 Emergency Diesel Generators - Elevation 21 ft.
 Room 1 and Room 2

RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	RESULT
255 (2)	01	FL1	B0001	C01	60.00	00001	11.3
255 (2)	01	FL1	B0001	C01	60.00	00002	11.8
255 (2)	01	FL1	B0001	C01	60.00	00004	12.6
255 (2)	01	FL1	B0001	C01	60.00	00005	11.0
255 (2)	01	FL1	B0001	C01	60.00	00006	8.5
255 (2)	01	FL1	B0036	C01	60.00	00003	9.8
255 (2)	02	FL1	B0001	C01	60.00	00001	13.1
255 (2)	02	FL1	B0001	C01	60.00	00003	11.1
255 (2)	02	FL1	B0001	C01	60.00	00004	12.7
255 (2)	02	FL1	B0001	C01	60.00	00005	10.1
255 (2)	02	FL1	B0001	C01	60.00	00006	7.8
255 (2)	02	FL1	B0036	C01	60.00	00002	10.1

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.
 12 results are listed.



Maine Yankee Atomic Power Plant Site Characterization

DOWNLOAD FILE & SURVEY INSTRUMENTATION CALIBRATION SUMMARY

03/22/98

Gamma Exposure Rate Measurements At 1 Meter

Survey Package : B0900 SURFACES & STRUCTURES

Emergency Diesel Generators - Elevation 21 ft.
Room 1 and Room 2

SURVEY DATE	FILE #	M2350		DETECTOR			TECHNICIAN
		INST S/N	CAL DUE	MODEL	S/N	CAL DUE	
1/1/98	255 (2)	126170	6/10/98	44-2	092400	6/11/98	MBK5187

CALIBRATION DATES VERIFIED AS ACCEPTABLE



Maine Yankee Atomic Power Plant Site Characterization

CHARACTERIZATION SUMMARY

04/01/98

SURVEY PACKAGE NUMBER :B1000

SURFACES & STRUCTURES

PACKAGE DESCRIPTION

Auxiliary Boiler Room - Elevation 21 ft.

SURVEY AREA DESCRIPTION

Auxiliary Boiler Room

GENERAL HISTORICAL INFORMATION (Operational history, etc.)

The Auxiliary Boiler Room was constructed in 1968 to house two auxiliary boilers. These boilers provide steam for heat and other plant functions when the plant is down. The insides of the boilers are potentially contaminated. Construction is bare concrete floor and painted concrete block walls with some structural steel exposed. Covered drain trenches are in the floor.

SUMMARY OF CHARACTERIZATION ACTIVITIES

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

Performed a scan of approximately five square meters at 26 survey measurement locations indicated on the survey map(s). This was approximately 10% of the accessible surface area.

Collected direct measurements for total beta activity at 26 survey measurement locations at the highest location identified in the scan. If an elevated location was not observed, the measurement was collected at an arbitrary location, selected by the technician, within the five square meter scanned area.

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

Collected one meter gamma exposure rate measurements at 8 survey locations for direct measurements for total beta activity on floor surfaces.

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

CHARACTERIZATION SURVEY RESULTS

- o There were 5 direct measurements for total beta activity above MDA (679 dpm/100cm²) and no results greater than 2000 dpm/100cm². The maximum measurement result was 1,309.7 dpm/100cm².
- o There were 2 measurements for removable beta activity above MDA (16.2 dpm/100cm²) and no result greater than 100 dpm/100cm². The maximum measurement result was 16.5 dpm/100cm².
- o There were no measurements for removable alpha activity above MDA (6.7 dpm/100cm²).
- o The average and maximum one meter exposure rate measurement results were 9.2 µR/hr and 10.5 µR/hr respectively.

REFERENCES (Documents, Interviews)



Maine Yankee Atomic Power Plant Site Characterization

SUMMARY OF SURVEY UNIT(S)

03/24/98

OUTPUT BATCH SN = 228

PACKAGE B1000 SURFACES & STRUCTURES
 Auxiliary Boiler Room - Elevation 21 ft.

UNIT(S)	SURFACE(S)
01 - Auxiliary Boiler Room	CL1 (Ceiling) EQ1 (Equipment) EQ2 (Equipment: Control Panel) EQ3 (Equipment: Tank (South)) EQ4 (Equipment: Control Panel) EQ5 (Equipment: Tank (North)) 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
	B0002	CONCRETE - BARE (INTERIOR)	665.0
	B0003	CINDER BLOCK - PAINTED (INTERIOR)	478.0
	B0031	METAL - BARE	0.0
	B0036	METAL - PAINTED	0.0
	B0047	BLANKET INSULATION	0.0

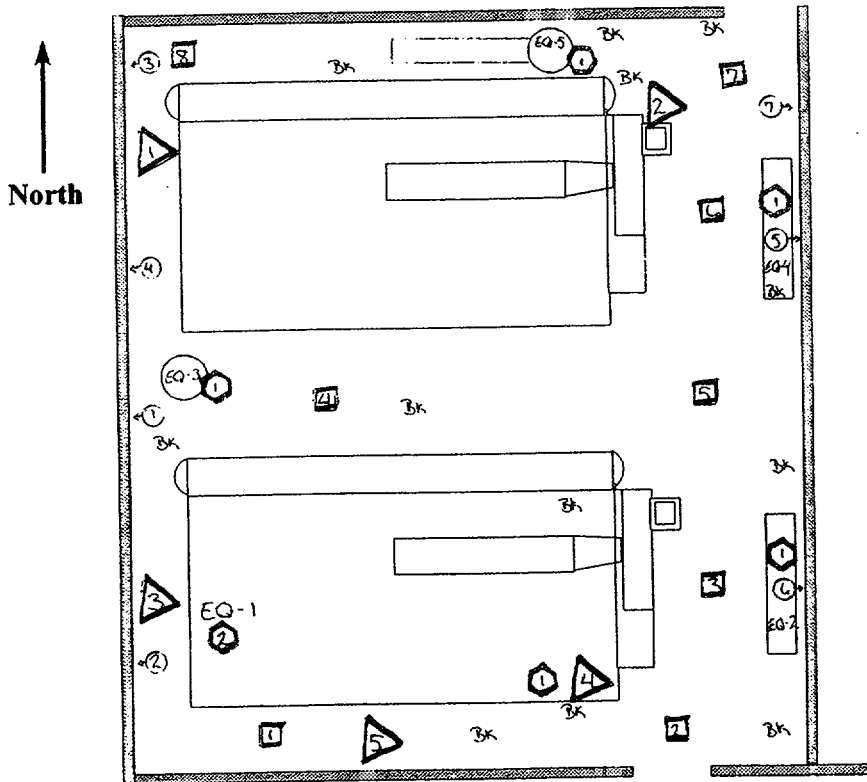


Maine Yankee Atomic Power Plant Site Characterization

SURVEY PACKAGE B1000

- B10 -
- ⊕ - survey locations for walls
 - ⊞ - survey locations for floors
 - ⊟ - survey locations for equipment
 - ⊠ - survey locations for ceilings
 - BK - background locations

Auxiliary Boiler Room





Maine Yankee Atomic Power Plant Site Characterization

03/24/98

Direct Measurements For Total Beta Activity

Survey Package B1000 SURFACES & STRUCTURES
Auxiliary Boiler Room - Elevation 21 ft.

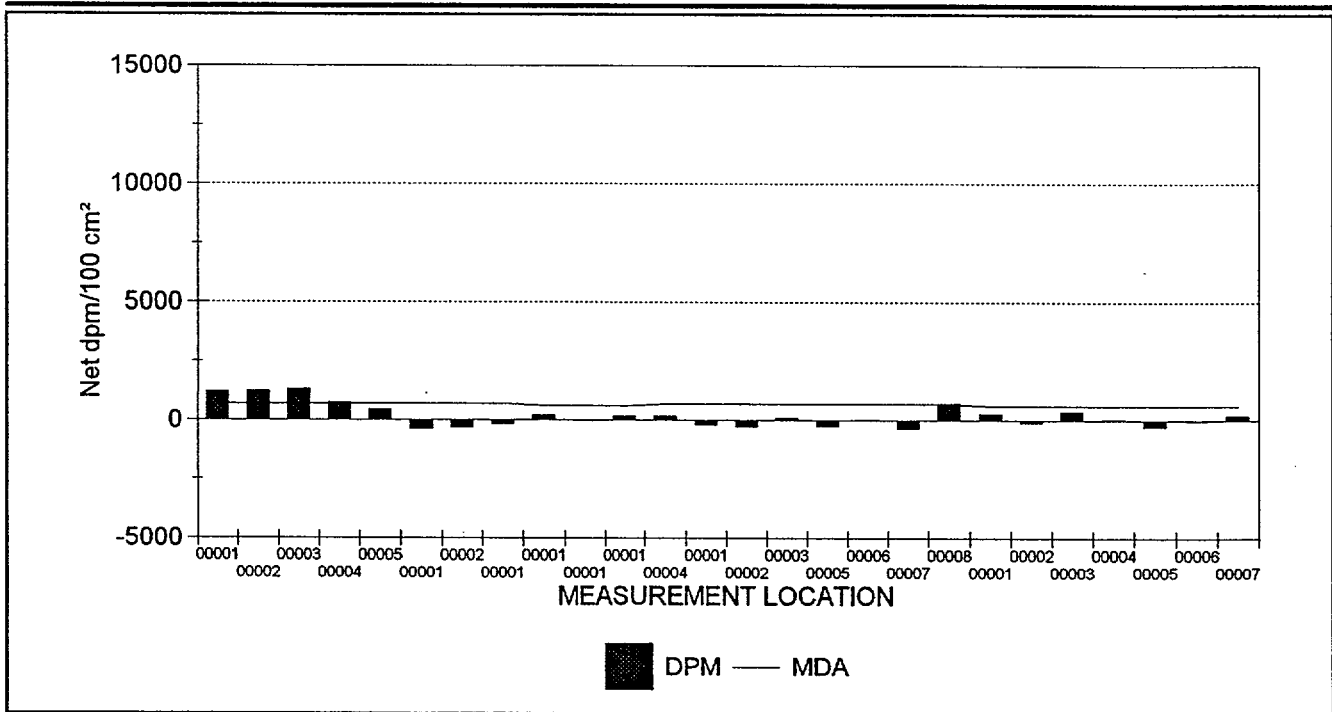
STATISTICAL SUMMARY

TESTS PERFORMED

	Net dpm/100 cm ²
Mean	183.4
Maximum	1,309.7
Minimum	-381.7
Standard Deviation	492.6
MDA	678.5

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	5

Samples Reported	26
Samples Prescribed	26



26 RESULTS ARE GRAPHED



Maine Yankee Atomic Power Plant Site Characterization

03/24/98

Direct Measurements For Total Beta Activity

Survey Package: B1000 SURFACES & STRUCTURES
 Auxiliary Boiler Room - Elevation 21 ft.

RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	MDA	RESULT
303 (2)	01	CL1	B0031	C01	10	00001	678.5	<u>1,192.2</u>
303 (2)	01	CL1	B0031	C01	10	00002	678.5	<u>1,215.7</u>
303 (2)	01	CL1	B0031	C01	10	00003	678.5	<u>1,309.7</u>
303 (2)	01	CL1	B0031	C01	10	00004	678.5	<u>722.4</u>
303 (2)	01	CL1	B0031	C01	10	00005	678.5	440.5
303 (2)	01	EQ1	B0036	C01	10	00001	678.5	-381.7
303 (2)	01	EQ1	B0036	C01	10	00002	678.5	-334.8
303 (2)	01	EQ2	B0036	C01	10	00001	678.5	-170.3
302 (2)	01	EQ3	B0047	C01	10	00001	601.0	210.0
302 (2)	01	EQ4	B0036	C01	10	00001	601.0	-21.2
302 (2)	01	EQ5	B0047	C01	10	00001	601.0	186.9
303 (2)	01	FL1	B0001	C01	10	00004	678.5	173.9
303 (2)	01	FL1	B0002	C01	10	00001	678.5	-201.0
303 (2)	01	FL1	B0002	C01	10	00002	678.5	-295.0
303 (2)	01	FL1	B0002	C01	10	00003	678.5	104.4
303 (2)	01	FL1	B0002	C01	10	00005	678.5	-271.5
303 (2)	01	FL1	B0002	C01	10	00006	678.5	33.9
303 (2)	01	FL1	B0002	C01	10	00007	678.5	-365.5
303 (2)	01	FL1	B0002	C01	10	00008	678.5	<u>715.1</u>
302 (2)	01	WS1	B0003	C01	10	00001	601.0	<u>287.0</u>
302 (2)	01	WS1	B0003	C01	10	00002	601.0	-106.1
302 (2)	01	WS1	B0003	C01	10	00003	601.0	356.3
302 (2)	01	WS1	B0003	C01	10	00004	601.0	55.7
302 (2)	01	WS1	B0003	C01	10	00005	601.0	-291.1
302 (2)	01	WS1	B0003	C01	10	00006	601.0	-13.6
302 (2)	01	WS1	B0003	C01	10	00007	601.0	217.6

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.
 26 results are listed.



Maine Yankee Atomic Power Plant Site Characterization

DOWNLOAD FILE & SURVEY INSTRUMENTATION CALIBRATION SUMMARY

03/24/98

Direct Measurements For Total Beta Activity

Survey Package : B1000 SURFACES & STRUCTURES
 Auxiliary Boiler Room - Elevation 21 ft.

SURVEY DATE	FILE #	M2350		DETECTOR			PRE EFF	TECHNICIAN
		INST S/N	CAL DUE	MODEL	S/N	CAL DUE		
1/6/98	302 (2)	126201	4/15/98	43-106	133858	5/3/98	.21	BSM0490
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
1/6/98	303 (2)	98620	3/20/98	43-106	128919	3/20/98	.20	DRK2986
CALIBRATION DATES VERIFIED AS ACCEPTABLE								



Maine Yankee Atomic Power Plant Site Characterization

03/24/98

Removable Contamination - Gross Beta Activity

Survey Package B1000 SURFACES & STRUCTURES
 Auxiliary Boiler Room - Elevation 21 ft.

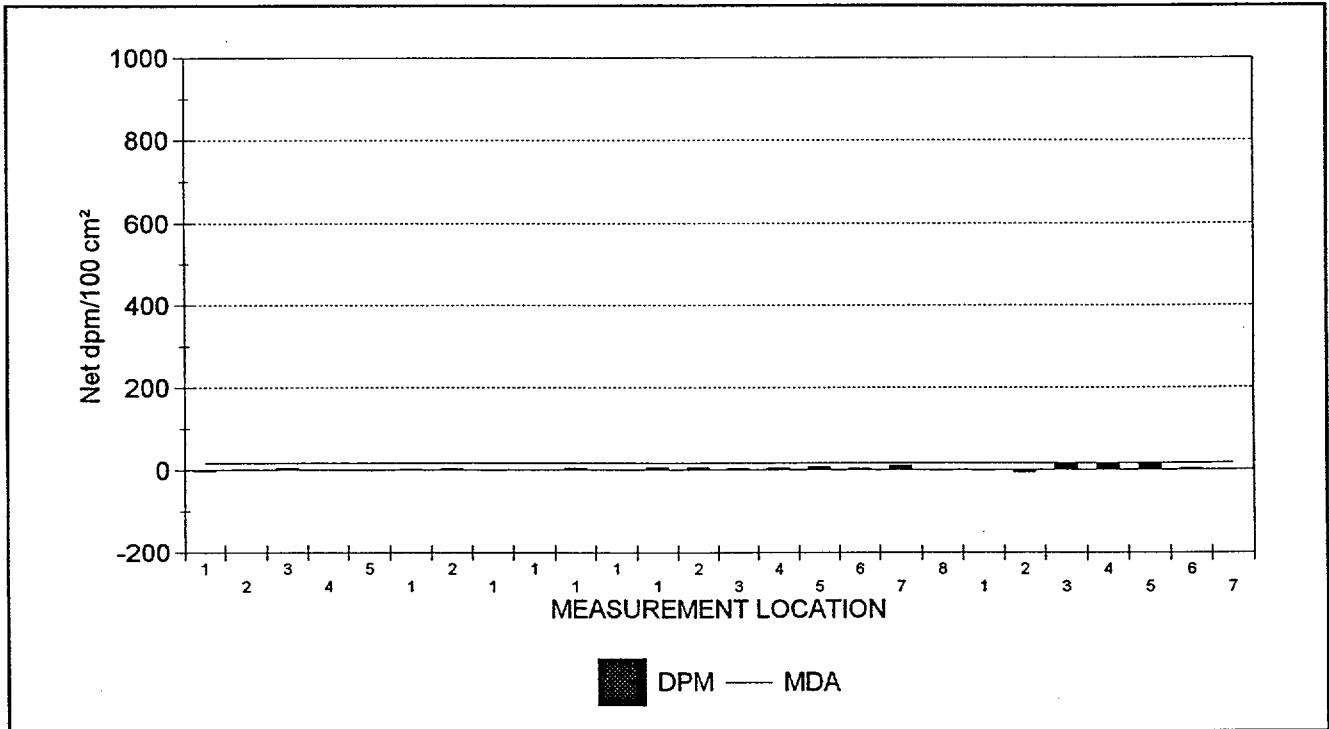
STATISTICAL SUMMARY

TESTS PERFORMED

	Net dpm/100 cm ²
Mean	3.4
Maximum	16.5
Minimum	-5.4
Standard Deviation	5.9
MDA	16.2

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

Samples Reported	26
Samples Prescribed	26



26 RESULTS ARE GRAPHED



Maine Yankee Atomic Power Plant Site Characterization

03/24/98

Removable Contamination - Gross Alpha Activity

Survey Package B1000 SURFACES & STRUCTURES
 Auxiliary Boiler Room - Elevation 21 ft.

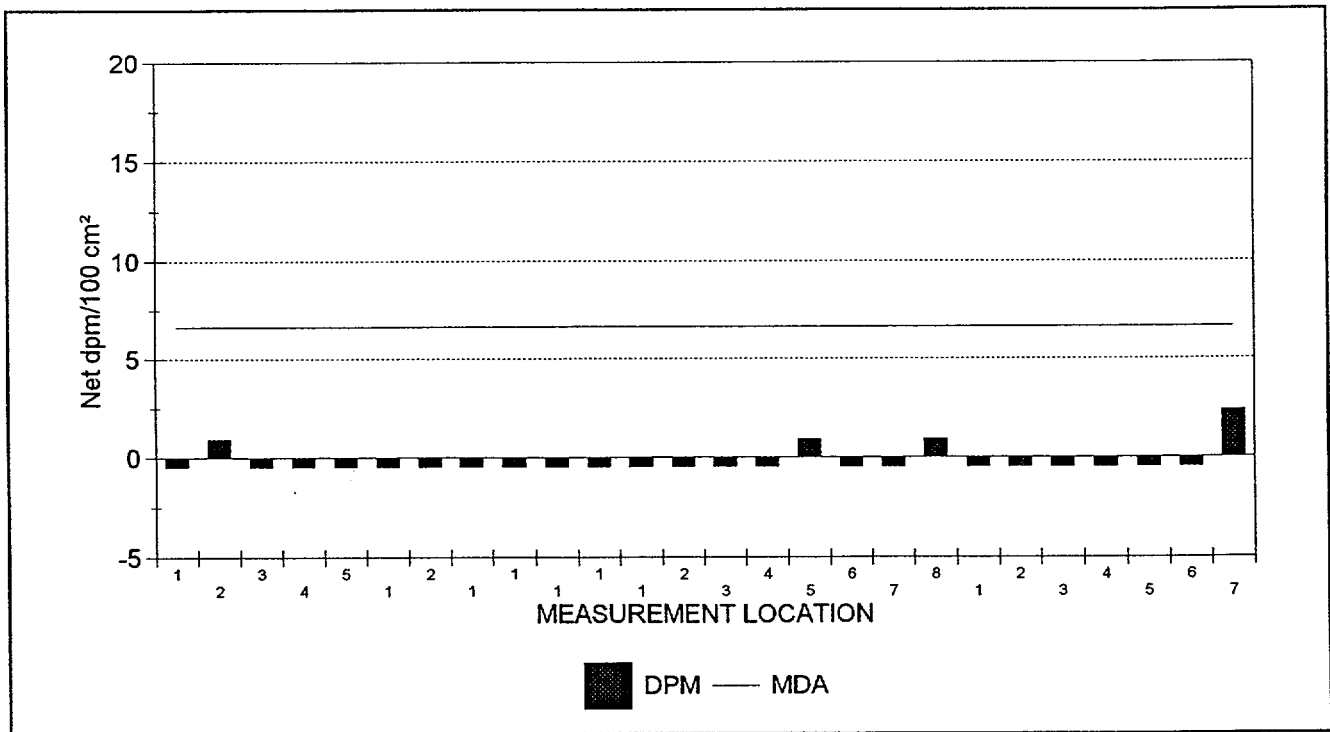
STATISTICAL SUMMARY

TESTS PERFORMED

	Net dpm/100 cm ²
Mean	-0.2
Maximum	2.4
Minimum	-0.5
Standard Deviation	0.7
MDA	6.7

Samples reported satisfy samples prescribed	YES
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	26
Samples Prescribed	26



26 RESULTS ARE GRAPHED



Maine Yankee Atomic Power Plant Site Characterization

03/24/98

Removable Contamination

Survey Package : B1000 SURFACES & STRUCTURES
 Auxiliary Boiler Room - Elevation 21 ft.

RESULTS LISTING - SORTED BY SURFACE CODE

XLS FILE	UNIT	SURFACE	REASON	COUNT	MSRMNT	ALPHA	BETA
				TIME	LOCATION		
SME1B037.XLS	01	WS1	C01	2	7	2.4	-0.3
SME1B037.XLS	01	WS1	C01	2	6	-0.5	3.0
SME1B037.XLS	01	WS1	C01	2	5	-0.5	14.8
SME1B037.XLS	01	WS1	C01	2	4	-0.5	16.5
SME1B037.XLS	01	WS1	C01	2	3	-0.5	16.5
SME1B037.XLS	01	WS1	C01	2	2	-0.5	-5.4
SME1B037.XLS	01	WS1	C01	2	1	-0.5	-2.0
SME1B037.XLS	01	FL1	C01	2	8	0.9	-2.0
SME1B037.XLS	01	FL1	C01	2	7	-0.5	9.8
SME1B037.XLS	01	FL1	C01	2	6	-0.5	3.0
SME1B037.XLS	01	FL1	C01	2	5	0.9	8.1
SME1B037.XLS	01	FL1	C01	2	4	-0.5	4.7
SME1B037.XLS	01	FL1	C01	2	3	-0.5	3.0
SME1B037.XLS	01	FL1	C01	2	2	-0.5	6.4
SME1B037.XLS	01	FL1	C01	2	1	-0.5	6.4
SME1B037.XLS	01	EQ5	C01	2	1	-0.5	-0.3
SME1B037.XLS	01	EQ4	C01	2	1	-0.5	4.7
SME1B037.XLS	01	EQ3	C01	2	1	-0.5	-0.3
SME1B037.XLS	01	EQ2	C01	2	1	-0.5	-2.0
SME1B037.XLS	01	EQ1	C01	2	2	-0.5	3.0
SME1B037.XLS	01	EQ1	C01	2	1	-0.5	1.3
SME1B037.XLS	01	CL1	C01	2	5	-0.5	-2.0
SME1B037.XLS	01	CL1	C01	2	4	-0.5	-0.3
SME1B037.XLS	01	CL1	C01	2	3	-0.5	4.7
SME1B037.XLS	01	CL1	C01	2	2	0.9	1.3
SME1B037.XLS	01	CL1	C01	2	1	-0.5	-3.7

NOTES: Activity reported in net dpm/100 cm². Count times are reported in minutes.
 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).
 26 results are listed.



Maine Yankee Atomic Power Plant Site Characterization

DATAFILE & TENNELEC CALIBRATION SUMMARY

03/24/98

Removable Contamination

Survey Package : B1000 SURFACES & STRUCTURES
Auxiliary Boiler Room - Elevation 21 ft.

SURVEYDATE	XLS FILE	INST ID	S/N	CAL DUE	LAB TECHNICIAN
2/10/98	SME1B037.XLS	1	14131	8/7/98	SNM

CALIBRATION DATE VERIFIED AS ACCEPTABLE



Maine Yankee Atomic Power Plant Site Characterization

03/24/98

Gamma Exposure Rate Measurements At 1 Meter

Survey Package B1000 SURFACES & STRUCTURES
 Auxiliary Boiler Room - Elevation 21 ft.

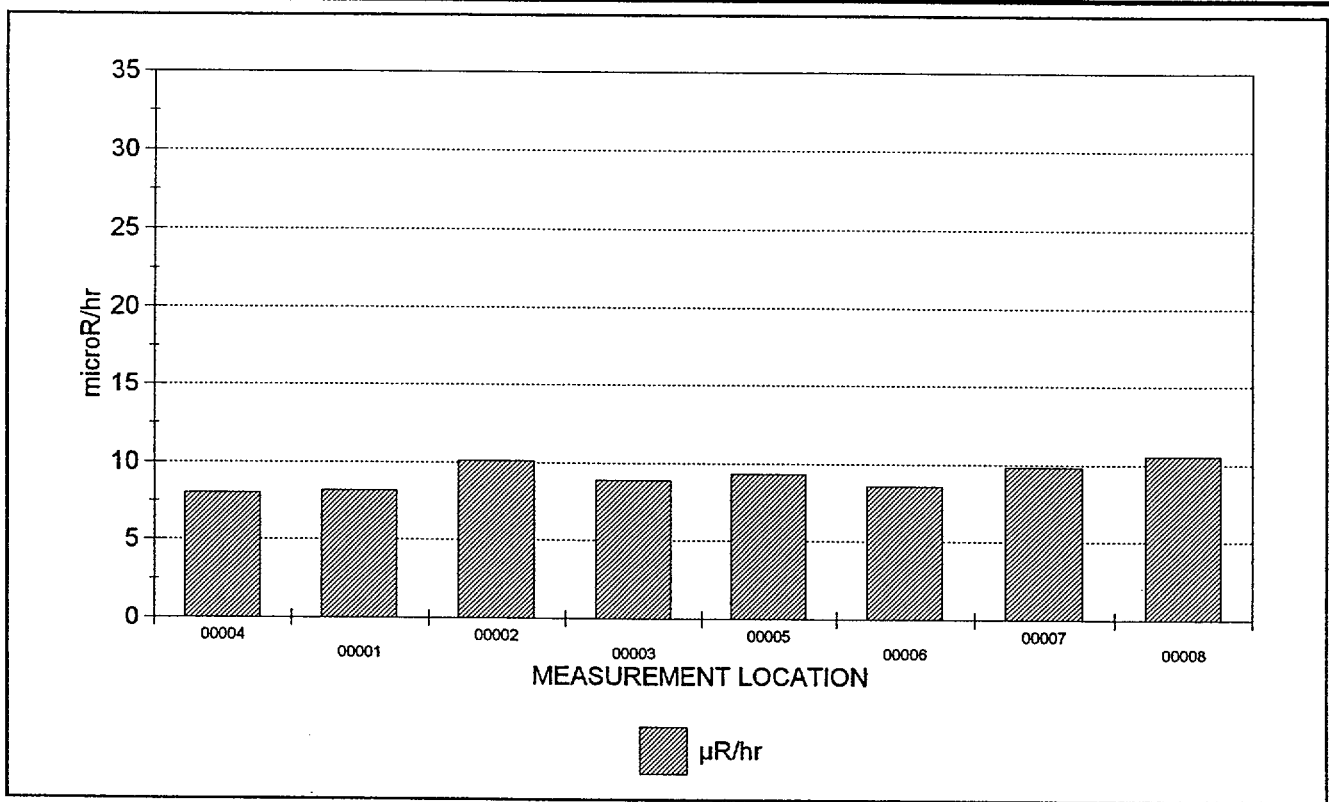
STATISTICAL SUMMARY

TESTS PERFORMED

	$\mu\text{R/hr}$
Mean	9.2
Maximum	10.5
Minimum	8.0
Standard Deviation	0.9

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

Samples Reported	8
Samples Prescribed	8



8 RESULTS ARE GRAPHED



Maine Yankee Atomic Power Plant Site Characterization

03/24/98

Gamma Exposure Rate Measurements At 1 Meter

Survey Package: B1000 SURFACES & STRUCTURES
 Auxiliary Boiler Room - Elevation 21 ft.

RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	RESULT
305 (2)	01	FL1	B0001	C01	60.00	00004	8.0
305 (2)	01	FL1	B0002	C01	60.00	00001	8.2
305 (2)	01	FL1	B0002	C01	60.00	00002	10.1
305 (2)	01	FL1	B0002	C01	60.00	00003	8.9
305 (2)	01	FL1	B0002	C01	60.00	00005	9.3
305 (2)	01	FL1	B0002	C01	60.00	00006	8.6
305 (2)	01	FL1	B0002	C01	60.00	00007	9.8
305 (2)	01	FL1	B0002	C01	60.00	00008	10.5

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



Maine Yankee Atomic Power Plant Site Characterization

DOWNLOAD FILE & SURVEY INSTRUMENTATION CALIBRATION SUMMARY

03/24/98

Gamma Exposure Rate Measurements At 1 Meter

Survey Package : B1000 SURFACES & STRUCTURES
 Auxiliary Boiler Room - Elevation 21 ft.

SURVEY DATE	FILE #	M2350		DETECTOR			TECHNICIAN
		INST S/N	CAL DUE	MODEL	S/N	CAL DUE	
1/6/98	305 (2)	98620	3/20/98	44-2	129304	4/19/98	DRK2986

CALIBRATION DATES VERIFIED AS ACCEPTABLE



Maine Yankee Atomic Power Plant Site Characterization

04/01/98

CHARACTERIZATION SUMMARY

SURVEY PACKAGE NUMBER :B1100

SURFACES & STRUCTURES

PACKAGE DESCRIPTION
Includes Upper Level and Lower Level

Recirculating Water Pump House - All Elevations

SURVEY AREA DESCRIPTION
Recirculating Water Pumphouse

GENERAL HISTORICAL INFORMATION (Operational history, etc.)

The Recirculating Water Pumphouse is a concrete and steel frame building, approximately 32 x 26 meters footprint, 2 elevations, basement is concrete floor and walls, and contains pumps and screens associated with pumping cooling water to the main condensers. Upper elevation is steel frame and siding and grating floor, and contains control panels and busses associated with equipment operations. Basement floor is painted epoxy coating.

SUMMARY OF CHARACTERIZATION ACTIVITIES

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

Performed a scan of approximately five square meters at 70 survey measurement locations indicated on the survey map(s). This was approximately 10% of the accessible surface area.

Collected direct measurements for total beta activity at 70 survey measurement locations at the highest location identified in the scan. If an elevated location was not observed, the measurement was collected at an arbitrary location, selected by the technician, within the five square meter scanned area.

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

Collected one meter gamma exposure rate measurements at 20 survey locations for direct measurements for total beta activity on floor surfaces.

Collected 1 sediment sample from the sumps 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 no direct measurements for total beta activity above MDA (699 dpm/100cm²).
- o There were no measurements for removable beta activity above MDA (16.2 dpm/100cm²).
- o There were no measurements for removable alpha activity above MDA (6.7 dpm/100cm²).
- o The average and maximum one meter exposure rate measurement results were 8.5 μ R/hr and 10.8 μ R/hr respectively.
- o The sample gamma spectral analysis result indicated no plant-derived radionuclide activity above MDA.

REFERENCES (Documents, Interviews)



Maine Yankee Atomic Power Plant Site Characterization

SUMMARY OF SURVEY UNIT(S)

03/24/98

OUTPUT BATCH SN = 230

PACKAGE B1100 SURFACES & STRUCTURES
 Recirculating Water Pump House - All Elevations
 Includes Upper Level and Lower Level

UNIT(S)	SURFACE(S)
01 - Lower Level	EQ1 (Equipment) FD1 (Sump) FL1 (Floor) WS1 (Walls)
02 - Upper Level	CL1 (Ceiling) EQ1 (Equipment) FL1 (Floor) RF1 (Exterior) WS1 (Walls)

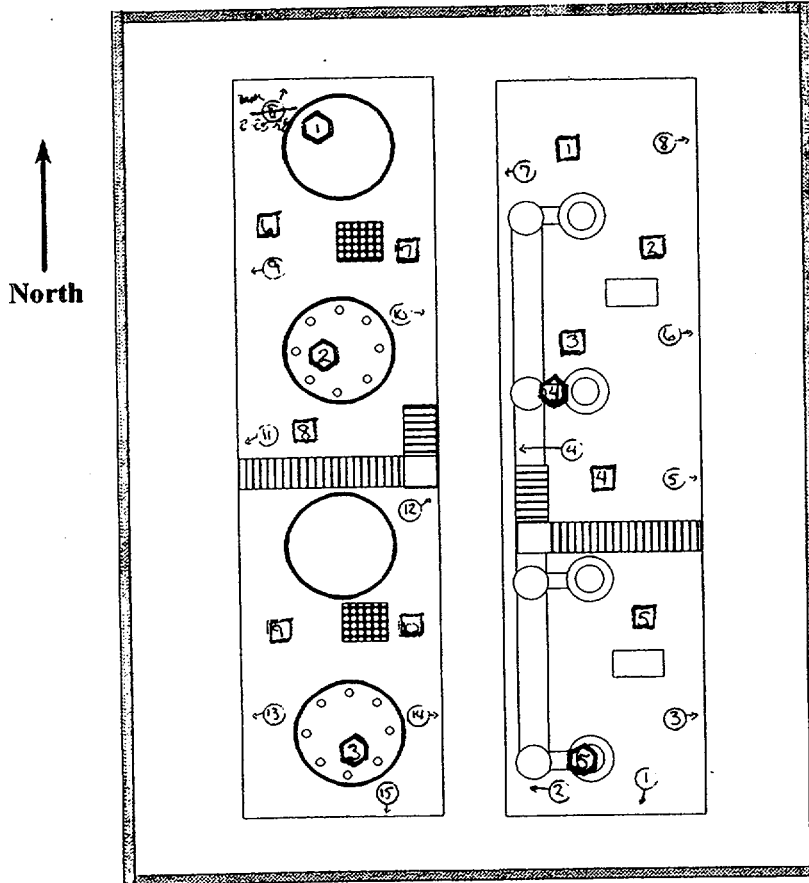
REASON(S) CHARACTERIZATION SURVEY (C01)

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
	B0039	CONCRETE - BARE (EXTERIOR)	665.0

Maine Yankee Atomic Power Plant Site Characterization

SURVEY PACKAGE B1100

Recirc Water Pumphouse
Lower Elevation



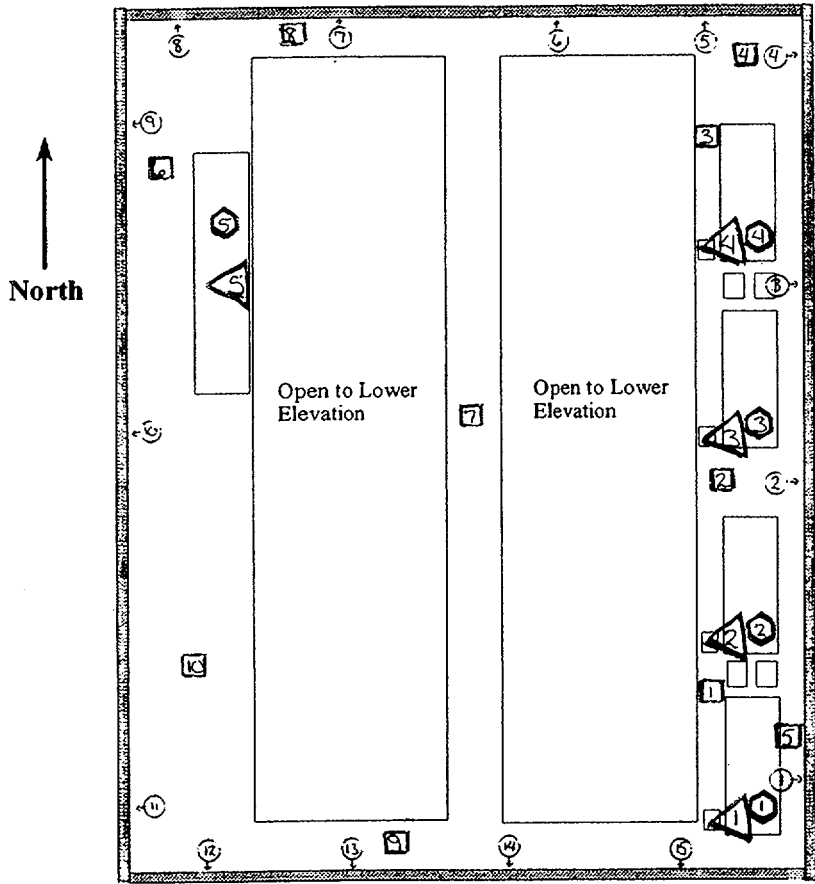
B11 -

- ⊙ - Survey locations on walls - a1wsi
- ⊞ - Survey locations on floors - a1FLI
- ⊞ - Survey locations on equipment - a1EQI
- * - Survey locations on ceilings (no ceilings)

Maine Yankee Atomic Power Plant Site Characterization

SURVEY PACKAGE B1100

Recirc Water Pumphouse
Upper Elevation



B11 -

- ⊙ - Survey locations on walls - 02WS1
- ⊠ - Survey locations on floors - 02FL1
- ⊞ - Survey locations on equipment - 02EQ1
- △ - Survey locations on ceiling - 02CL1



Maine Yankee Atomic Power Plant Site Characterization

03/24/98

Direct Measurements For Total Beta Activity

Survey Package B1100 SURFACES & STRUCTURES
 Recirculating Water Pump House - All Elevations
 Includes Upper Level and Lower Level

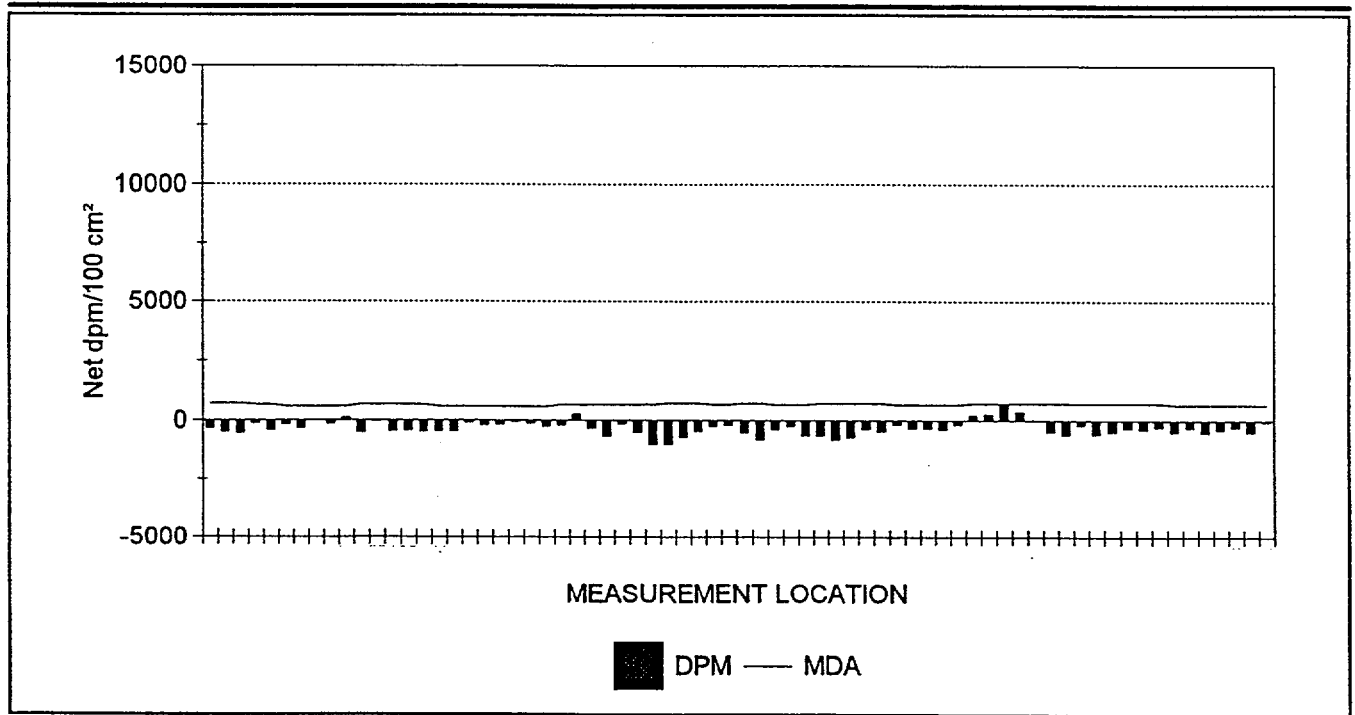
STATISTICAL SUMMARY

TESTS PERFORMED

	Net dpm/100 cm ²
Mean	-333.9
Maximum	672.7
Minimum	-1,042.4
Standard Deviation	300.5
MDA	699.0

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	0

Samples Reported	70
Samples Prescribed	70



70 RESULTS ARE GRAPHED



Maine Yankee Atomic Power Plant Site Characterization

03/24/98

Direct Measurements For Total Beta Activity

Survey Package : B1100 SURFACES & STRUCTURES
 Recirculating Water Pump House - All Elevations
 Includes Upper Level and Lower Level

RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	MDA	RESULT
282 (2)	01	EQ1	B0036	C01	10	00001	696.6	-343.0
282 (2)	01	EQ1	B0036	C01	10	00002	696.6	-490.6
282 (2)	01	EQ1	B0036	C01	10	00003	696.6	-539.8
281 (2)	01	EQ1	B0036	C01	10	00004	655.9	-131.4
281 (2)	01	EQ1	B0036	C01	10	00005	655.9	-415.3
295 (2)	01	FL1	B0001	C01	10	00001	577.3	-175.3
295 (2)	01	FL1	B0001	C01	10	00002	577.3	-334.6
295 (2)	01	FL1	B0001	C01	10	00003	577.3	6.7
295 (2)	01	FL1	B0001	C01	10	00004	577.3	-152.6
295 (2)	01	FL1	B0001	C01	10	00005	577.3	97.7
299 (2)	01	FL1	B0001	C01	10	00006	653.9	-524.7
299 (2)	01	FL1	B0001	C01	10	00007	653.9	-60.2
299 (2)	01	FL1	B0001	C01	10	00008	653.9	-458.3
299 (2)	01	FL1	B0001	C01	10	00009	653.9	-436.2
299 (2)	01	FL1	B0001	C01	10	00010	653.9	-502.6
295 (2)	01	WS1	B0001	C01	10	00001	577.3	-471.0
295 (2)	01	WS1	B0001	C01	10	00002	577.3	-471.0
295 (2)	01	WS1	B0001	C01	10	00003	577.3	-107.1
295 (2)	01	WS1	B0001	C01	10	00004	577.3	-220.8
295 (2)	01	WS1	B0001	C01	10	00005	577.3	-175.3
295 (2)	01	WS1	B0001	C01	10	00006	577.3	-61.6
295 (2)	01	WS1	B0001	C01	10	00007	577.3	-129.8
295 (2)	01	WS1	B0001	C01	10	00008	577.3	-266.3
299 (2)	01	WS1	B0001	C01	10	00009	653.9	-215.0
299 (2)	01	WS1	B0001	C01	10	00010	653.9	271.6
299 (2)	01	WS1	B0001	C01	10	00011	653.9	-347.7
299 (2)	01	WS1	B0001	C01	10	00012	653.9	-679.5
299 (2)	01	WS1	B0001	C01	10	00013	653.9	-148.7
299 (2)	01	WS1	B0001	C01	10	00014	653.9	-524.7
299 (2)	01	WS1	B0001	C01	10	00015	653.9	-1,033.4
282 (2)	02	CL1	B0001	C01	10	00001	696.6	-1,042.4
282 (2)	02	CL1	B0001	C01	10	00002	696.6	-722.6
282 (2)	02	CL1	B0001	C01	10	00003	696.6	-476.6
281 (2)	02	CL1	B0001	C01	10	00004	655.9	-254.6
281 (2)	02	CL1	B0001	C01	10	00005	655.9	-207.3
282 (2)	02	EQ1	B0036	C01	10	00001	696.6	-515.2
282 (2)	02	EQ1	B0036	C01	10	00002	696.6	-834.9
281 (2)	02	EQ1	B0036	C01	10	00003	655.9	-391.6
281 (2)	02	EQ1	B0036	C01	10	00004	655.9	-249.7
281 (2)	02	EQ1	B0036	C01	10	00005	655.9	-651.9

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

03/24/98

Direct Measurements For Total Beta Activity

Survey Package : B1100 SURFACES & STRUCTURES
 Recirculating Water Pump House - All Elevations
 Includes Upper Level and Lower Level

RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	MDA	RESULT
282 (2)	02	FL1	B0001	C01	10	00001	696.6	-648.8
282 (2)	02	FL1	B0001	C01	10	00002	696.6	-821.0
282 (2)	02	FL1	B0001	C01	10	00003	696.6	-722.6
282 (2)	02	FL1	B0001	C01	10	00004	696.6	-353.6
282 (2)	02	FL1	B0001	C01	10	00005	696.6	-476.6
281 (2)	02	FL1	B0001	C01	10	00007	655.9	-183.6
281 (2)	02	FL1	B0001	C01	10	00008	655.9	-349.2
281 (2)	02	FL1	B0001	C01	10	00009	655.9	-349.2
281 (2)	02	FL1	B0001	C01	10	00010	655.9	-396.5
281 (2)	02	FL1	B0031	C01	10	00006	655.9	-178.7
508 (2)	02	RF1	B0039	C01	10	00001	699.0	195.4
508 (2)	02	RF1	B0039	C01	10	00002	699.0	267.0
508 (2)	02	RF1	B0039	C01	10	00003	699.0	672.7
508 (2)	02	RF1	B0039	C01	10	00004	699.0	362.5
508 (2)	02	RF1	B0039	C01	10	00005	699.0	4.5
282 (2)	02	WS1	B0036	C01	10	00001	696.6	-490.6
282 (2)	02	WS1	B0036	C01	10	00002	696.6	-613.6
282 (2)	02	WS1	B0036	C01	10	00003	696.6	-220.0
282 (2)	02	WS1	B0036	C01	10	00004	696.6	-589.0
282 (2)	02	WS1	B0036	C01	10	00005	696.6	-490.6
282 (2)	02	WS1	B0036	C01	10	00006	696.6	-343.0
282 (2)	02	WS1	B0036	C01	10	00007	696.6	-392.2
282 (2)	02	WS1	B0036	C01	10	00008	696.6	-293.8
281 (2)	02	WS1	B0036	C01	10	00009	655.9	-486.3
281 (2)	02	WS1	B0036	C01	10	00010	655.9	-320.7
281 (2)	02	WS1	B0036	C01	10	00011	655.9	-533.6
281 (2)	02	WS1	B0036	C01	10	00012	655.9	-391.6
281 (2)	02	WS1	B0036	C01	10	00013	655.9	-297.0
281 (2)	02	WS1	B0036	C01	10	00014	655.9	-486.3
281 (2)	02	WS1	B0036	C01	10	00015	655.9	-60.5

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.
 70 results are listed.



Maine Yankee Atomic Power Plant Site Characterization

DOWNLOAD FILE & SURVEY INSTRUMENTATION CALIBRATION SUMMARY

03/24/98

Direct Measurements For Total Beta Activity

Survey Package : B1100 SURFACES & STRUCTURES
 Recirculating Water Pump House - All Elevations
 Includes Upper Level and Lower Level

SURVEY DATE	FILE #	M2350		DETECTOR			PRE EFF	TECHNICIAN
		INST S/N	CAL DUE	MODEL	S/N	CAL DUE		
1/5/98	281 (2)	098639	4/16/98	43-106	133876	4/30/98	.20	JJP1813
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
1/5/98	282 (2)	126206	3/27/98	43-106	133860	3/30/98	.19	LAC4593
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
1/6/98	295 (2)	126206	3/27/98	43-106	133860	3/30/98	.21	LAC4593
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
1/6/98	299 (2)	098639	4/16/98	43-106	133876	4/30/98	.22	JJP1813
CALIBRATION DATES VERIFIED AS ACCEPTABLE								
1/28/98	508 (2)	098639	4/16/98	43-106	133876	4/30/98	.20	JJP1813
CALIBRATION DATES VERIFIED AS ACCEPTABLE								



Maine Yankee Atomic Power Plant Site Characterization

03/24/98

Removable Contamination - Gross Beta Activity

Survey Package B1100 SURFACES & STRUCTURES
 Recirculating Water Pump House - All Elevations
 Includes Upper Level and Lower Level

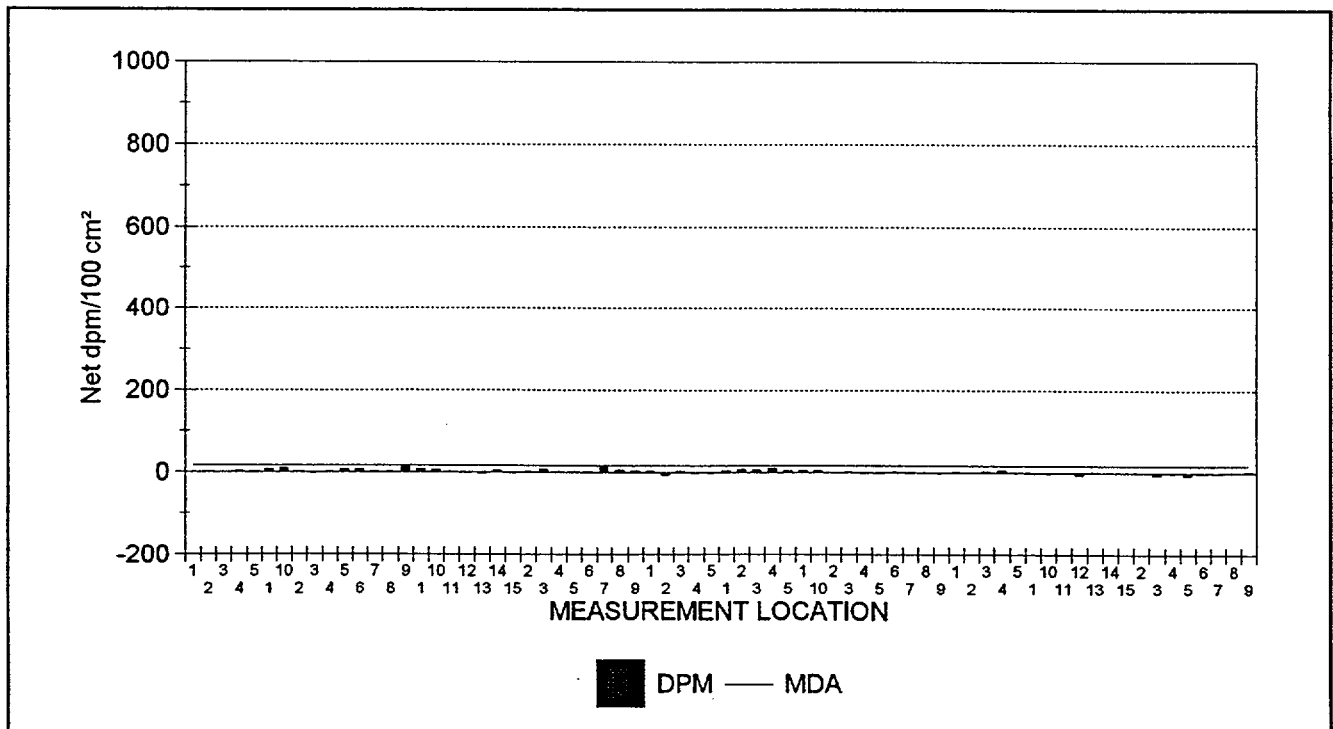
STATISTICAL SUMMARY

TESTS PERFORMED

	Net dpm/100 cm ²
Mean	1.8
Maximum	11.4
Minimum	-5.4
Standard Deviation	4.1
MDA	16.2

Samples reported satisfy samples prescribed	YES
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	70
Samples Prescribed	70



70 RESULTS ARE GRAPHED



Maine Yankee Atomic Power Plant Site Characterization

03/24/98

Removable Contamination - Gross Alpha Activity

Survey Package B1100 SURFACES & STRUCTURES
 Recirculating Water Pump House - All Elevations
 Includes Upper Level and Lower Level

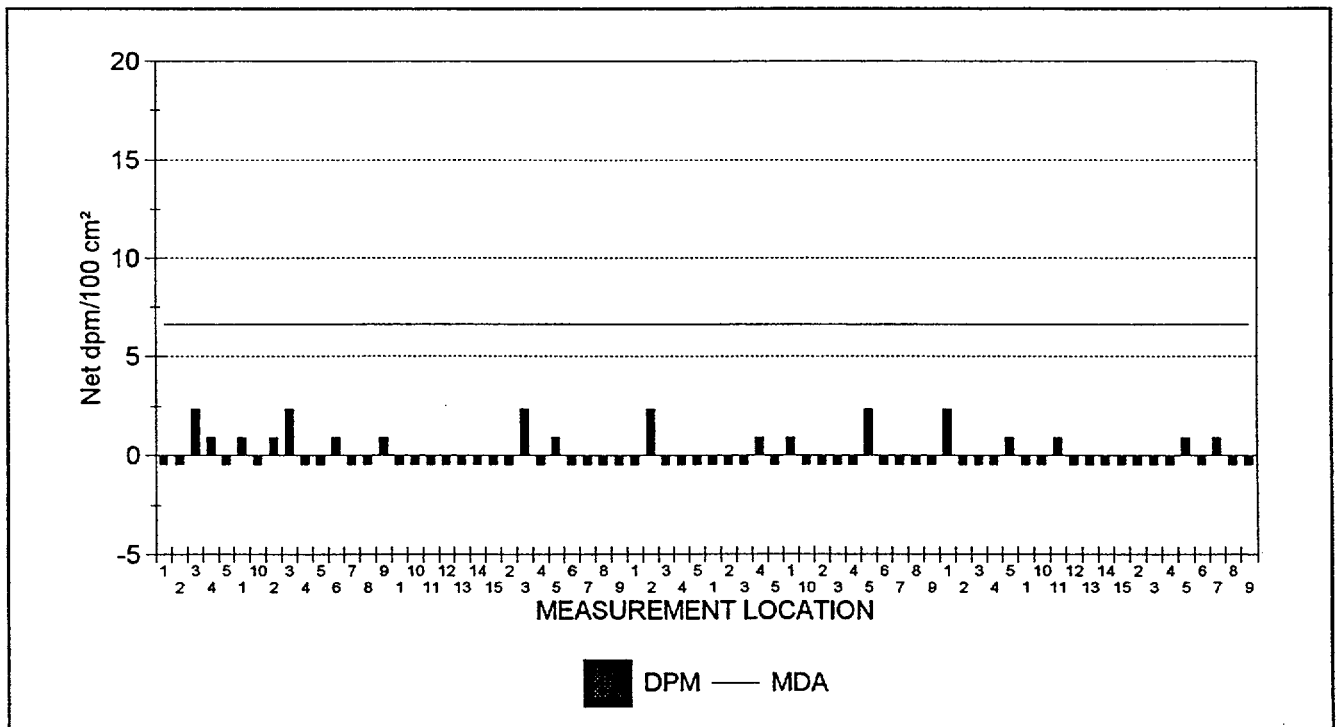
STATISTICAL SUMMARY

TESTS PERFORMED

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

Samples reported satisfy samples prescribed	YES
MDA <10 net dpm/100 cm 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

03/24/98

Removable Contamination

Survey Package : B1100 SURFACES & STRUCTURES
 Recirculating Water Pump House - All Elevations
 Includes Upper Level and Lower Level

RESULTS LISTING - SORTED BY SURFACE CODE

XLS FILE	UNIT	SURFACE	REASON	COUNT	MSRMNT	ALPHA	BETA
				TIME	LOCATION		
SME1B039.XLS	02	WS1	C01	2	9	-0.5	3.0
SME1B039.XLS	02	WS1	C01	2	8	-0.5	1.3
SME1B039.XLS	02	WS1	C01	2	7	0.9	-2.0
SME1B039.XLS	02	WS1	C01	2	6	-0.5	-2.0
SME1B039.XLS	02	WS1	C01	2	5	0.9	-5.4
SME1B039.XLS	02	WS1	C01	2	4	-0.5	-2.0
SME1B039.XLS	02	WS1	C01	2	3	-0.5	-5.4
SME1B039.XLS	02	WS1	C01	2	2	-0.5	-0.3
SME1B039.XLS	02	WS1	C01	2	15	-0.5	-0.3
SME1B039.XLS	02	WS1	C01	2	14	-0.5	-0.3
SME1B039.XLS	02	WS1	C01	2	13	-0.5	1.3
SME1B039.XLS	02	WS1	C01	2	12	-0.5	-5.4
SME1B039.XLS	02	WS1	C01	2	11	0.9	-0.3
SME1B039.XLS	02	WS1	C01	2	10	-0.5	-2.0
SME1B039.XLS	02	WS1	C01	2	1	-0.5	-2.0
SME1B038.XLS	02	RF1	C01	2	5	0.9	-0.3
SME1B038.XLS	02	RF1	C01	2	4	-0.5	6.4
SME1B038.XLS	02	RF1	C01	2	3	-0.5	3.0
SME1B038.XLS	02	RF1	C01	2	2	-0.5	-0.3
SME1B038.XLS	02	RF1	C01	2	1	2.4	1.3
SME1B039.XLS	02	FL1	C01	2	9	-0.5	-2.0
SME1B039.XLS	02	FL1	C01	2	8	-0.5	-2.0
SME1B039.XLS	02	FL1	C01	2	7	-0.5	-0.3
SME1B039.XLS	02	FL1	C01	2	6	-0.5	1.3
SME1B039.XLS	02	FL1	C01	2	5	2.4	-2.0
SME1B039.XLS	02	FL1	C01	2	4	-0.5	-2.0
SME1B039.XLS	02	FL1	C01	2	3	-0.5	1.3
SME1B039.XLS	02	FL1	C01	2	2	-0.5	-0.3
SME1B039.XLS	02	FL1	C01	2	10	-0.5	4.7
SME1B039.XLS	02	FL1	C01	2	1	0.9	4.7
SME1B039.XLS	02	EQ1	C01	2	5	-0.5	4.7
SME1B039.XLS	02	EQ1	C01	2	4	0.9	9.8
SME1B039.XLS	02	EQ1	C01	2	3	-0.5	6.4
SME1B039.XLS	02	EQ1	C01	2	2	-0.5	8.1
SME1B039.XLS	02	EQ1	C01	2	1	-0.5	4.7
SME1B039.XLS	02	CL1	C01	2	5	-0.5	-2.0
SME1B039.XLS	02	CL1	C01	2	4	-0.5	-2.0
SME1B039.XLS	02	CL1	C01	2	3	-0.5	3.0
SME1B039.XLS	02	CL1	C01	2	2	2.4	-5.4
SME1B039.XLS	02	CL1	C01	2	1	-0.5	3.0

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

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

03/24/98

Removable Contamination

Survey Package : B1100 SURFACES & STRUCTURES
 Recirculating Water Pump House - All Elevations
 Includes Upper Level and Lower Level

RESULTS LISTING - SORTED BY SURFACE CODE

XLS FILE	UNIT	SURFACE	REASON	COUNT	MSRMNT	ALPHA	BETA
				TIME	LOCATION		
SME1B039.XLS	01	WS1	C01	2	9	-0.5	4.7
SME1B039.XLS	01	WS1	C01	2	8	-0.5	6.4
SME1B039.XLS	01	WS1	C01	2	7	-0.5	11.4
SME1B039.XLS	01	WS1	C01	2	6	-0.5	1.3
SME1B039.XLS	01	WS1	C01	2	5	0.9	1.3
SME1B039.XLS	01	WS1	C01	2	4	-0.5	1.3
SME1B039.XLS	01	WS1	C01	2	3	2.4	8.1
SME1B039.XLS	01	WS1	C01	2	2	-0.5	1.3
SME1B039.XLS	01	WS1	C01	2	15	-0.5	-2.0
SME1B039.XLS	01	WS1	C01	2	14	-0.5	4.7
SME1B039.XLS	01	WS1	C01	2	13	-0.5	-3.7
SME1B039.XLS	01	WS1	C01	2	12	-0.5	-0.3
SME1B039.XLS	01	WS1	C01	2	11	-0.5	1.3
SME1B039.XLS	01	WS1	C01	2	10	-0.5	6.4
SME1B039.XLS	01	WS1	C01	2	1	-0.5	8.1
SME1B039.XLS	01	FL1	C01	2	9	0.9	11.4
SME1B039.XLS	01	FL1	C01	2	8	-0.5	1.3
SME1B039.XLS	01	FL1	C01	2	7	-0.5	1.3
SME1B039.XLS	01	FL1	C01	2	6	0.9	8.1
SME1B039.XLS	01	FL1	C01	2	5	-0.5	8.1
SME1B039.XLS	01	FL1	C01	2	4	-0.5	1.3
SME1B039.XLS	01	FL1	C01	2	3	2.4	-2.0
SME1B039.XLS	01	FL1	C01	2	2	0.9	1.3
SME1B039.XLS	01	FL1	C01	2	10	-0.5	9.8
SME1B039.XLS	01	FL1	C01	2	1	0.9	8.1
SME1B039.XLS	01	EQ1	C01	2	5	-0.5	1.3
SME1B039.XLS	01	EQ1	C01	2	4	0.9	3.0
SME1B039.XLS	01	EQ1	C01	2	3	2.4	-0.3
SME1B039.XLS	01	EQ1	C01	2	2	-0.5	1.3
SME1B039.XLS	01	EQ1	C01	2	1	-0.5	-0.3

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

03/24/98

Removable Contamination

Survey Package : B1100 SURFACES & STRUCTURES
 Recirculating Water Pump House - All Elevations
 Includes Upper Level and Lower Level

SURVEYDATE	XLS FILE	INST ID	S/N	CAL DUE	LAB TECHNICIAN
2/10/98	SME1B038.XLS	1	14131	8/7/98	SNM
CALIBRATION DATE VERIFIED AS ACCEPTABLE					
2/10/98	SME1B039.XLS	1	14131	8/7/98	SNM
CALIBRATION DATE VERIFIED AS ACCEPTABLE					



Maine Yankee Atomic Power Plant Site Characterization

03/24/98

Gamma Exposure Rate Measurements At 1 Meter

Survey Package B1100 SURFACES & STRUCTURES
 Recirculating Water Pump House - All Elevations
 Includes Upper Level and Lower Level

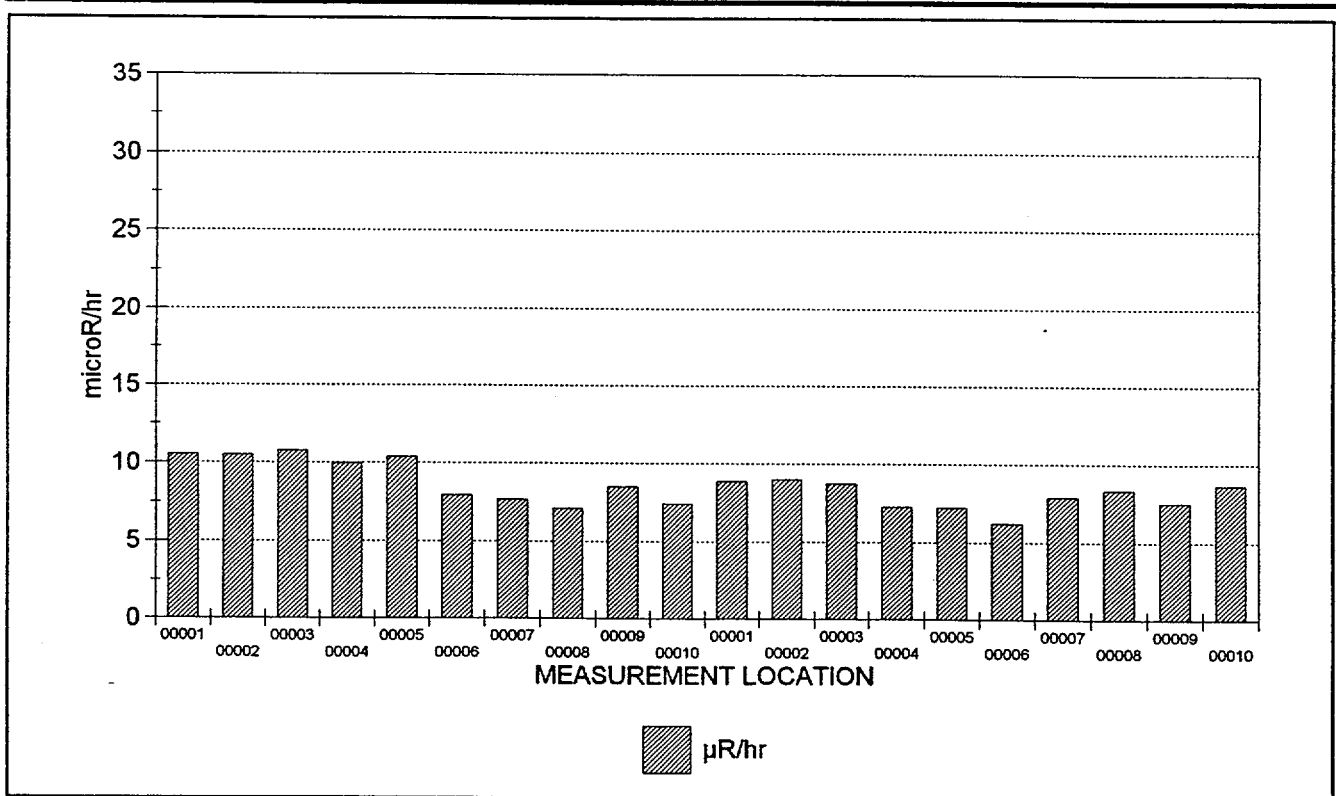
STATISTICAL SUMMARY

TESTS PERFORMED

	$\mu\text{R/hr}$
Mean	8.5
Maximum	10.8
Minimum	6.2
Standard Deviation	1.3

Samples reported satisfy samples prescribed	YES
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Samples Reported	20
Samples Prescribed	20



20 RESULTS ARE GRAPHED



Maine Yankee Atomic Power Plant Site Characterization

03/24/98

Gamma Exposure Rate Measurements At 1 Meter

Survey Package : B1100 SURFACES & STRUCTURES
 Recirculating Water Pump House - All Elevations
 Includes Upper Level and Lower Level

RESULTS LISTING - SORTED BY SURFACE CODE

FILE #	UNIT	SURFACE	MATERIAL	REASON	COUNT TIME	MSRMNT LOCATION	RESULT
300 (2)	01	FL1	B0001	C01	60.00	00001	10.5
300 (2)	01	FL1	B0001	C01	60.00	00002	10.5
300 (2)	01	FL1	B0001	C01	60.00	00003	10.8
300 (2)	01	FL1	B0001	C01	60.00	00004	9.9
300 (2)	01	FL1	B0001	C01	60.00	00005	10.4
300 (2)	01	FL1	B0001	C01	60.00	00006	8.0
300 (2)	01	FL1	B0001	C01	60.00	00007	7.7
300 (2)	01	FL1	B0001	C01	60.00	00008	7.1
300 (2)	01	FL1	B0001	C01	60.00	00009	8.5
300 (2)	01	FL1	B0001	C01	60.00	00010	7.4
300 (2)	02	FL1	B0001	C01	60.00	00001	8.9
300 (2)	02	FL1	B0001	C01	60.00	00002	9.0
300 (2)	02	FL1	B0001	C01	60.00	00003	8.8
300 (2)	02	FL1	B0001	C01	60.00	00004	7.2
300 (2)	02	FL1	B0001	C01	60.00	00005	7.2
300 (2)	02	FL1	B0001	C01	60.00	00006	6.2
300 (2)	02	FL1	B0001	C01	60.00	00007	7.9
300 (2)	02	FL1	B0001	C01	60.00	00008	8.4
300 (2)	02	FL1	B0001	C01	60.00	00009	7.5
300 (2)	02	FL1	B0001	C01	60.00	00010	8.7

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



Maine Yankee Atomic Power Plant Site Characterization

DOWNLOAD FILE & SURVEY INSTRUMENTATION CALIBRATION SUMMARY

03/24/98

Gamma Exposure Rate Measurements At 1 Meter

Survey Package : B1100 SURFACES & STRUCTURES
 Recirculating Water Pump House - All Elevations
 Includes Upper Level and Lower Level

SURVEY DATE	FILE #	M2350		DETECTOR			TECHNICIAN
		INST S/N	CAL DUE	MODEL	S/N	CAL DUE	
1/6/98	300 (2)	098639	4/16/98	44-2	129770	5/12/98	JJP1813

CALIBRATION DATES VERIFIED AS ACCEPTABLE



Maine Yankee Atomic Power Plant Site Characterization

GAMMA SPECTRAL ANALYSIS RESULTS LISTING

03/29/98

OUTPUT BATCH SN = 240

Survey Package B1100 SURFACES & STRUCTURES
 Recirculating Water Pump House - All Elevations
 Includes Upper Level and Lower Level

UNIT : 01 SURFACE : FD1 REASON : C01

SAMPLE TYPE OR SURFACE SAMPLED: Floor Drains
 SAMPLE LOCATOR: 00001-00001

LAB ID	SPECTRUM	MASS (grams)	COUNT TIME (seconds)	NUCLIDE	ACTIVITY (pCi/g)	MDA (pCi/g)	ERROR (± pCi/g)
MY912	FAL00004	18.0	1800	Co-57	< 2.6	2.6	0.0
				Co-60	< 3.9	3.9	0.0
				Cs-134	< 3.0	3.0	0.0
				Cs-137	< 4.1	4.1	0.0
				K-40	< 59.9	59.9	0.0
				Mn-54	< 4.8	4.8	0.0