MAINE YANKEE FINAL STATUS SURVEY RELEASE RECORD FA-0100 CONTAINMENT BUILDING SURVEY UNIT 1

| Prepared By: | <u>Sall A. Missityni</u> FSS Engineer - Signature Todd 5. Brautigem Printed Name | Date: <u>9-30-04</u> |
|--------------|---|-----------------------|
| Reviewed By: | FSS Specialist - Signature Larry Dockins Printed Name | Date: 10 18 /01 |
| Reviewed By: | <u> Anderon</u> Independent Review – Signature D. ANDERSON Printed Name | Date: <u>1122/04</u> |
| Approved By: | Superintendent, FSS/Signature George Printed Name | Date: <u>11/30/04</u> |
| Approved By: | FSS, MOP - Signature Jones 2. Joseph Company Printed Name | Date: <u>12/7/04</u> |

Revision 0

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MAINE YANKEE FINAL STATUS SURVEY RELEASE RECORD FA-0100 CONTAINMENT BUILDING SURVEY UNIT 1

A. SURVEY UNIT DESCRIPTION

Survey Unit 1 is located in Survey Area FA 0100, the Containment Building interior. The Containment Building is located in the restricted area between the Fuel Building and the Spray Building centered at site coordinates 407,575 N and 623,810 E. The Containment Building is shown in relation to other major site structures in map FA 0100. All maps referenced in this release record are provided in Attachment 1, unless otherwise noted.

Survey Unit 1 consisted of the surface of the interior walls (steel liner) from El. -4 feet to approximately El. 17 feet. The physical configuration of Survey Unit 1 in relation to the remaining survey units in the Containment Building is provided in map FA 0100-UNITS (Attachment 1).

The survey unit has a surface area of approximately 858.4 m^2 .

B. SURVEY UNIT DESIGN INFORMATION

The survey unit was known to have been contaminated to levels in excess of the release limits and required an extensive remediation effort prior to FSS. Given the high probability of residual contamination, the area was designated a Class 1 survey unit per the LTP.

The survey unit design parameters are shown in Table 1. Given a relative shift of 1.3, it was determined that 21 direct measurements were required for the Sign Test. Each sample location was determined using a fixed square grid with a random start point. These locations are presented on survey map FA0100-U1-DIRECTS (Attachment 1). Once the direct readings were completed, removable contamination samples were obtained at each measurement location.

A 100% scan coverage of the area was required. The survey was designed to include 444 scan grids of approximately 2 m^2 each. Instrument scan setpoints were conservatively set below the DCGL_{EMC}, as shown in Table 2-2 (Attachment 2). The location of the scan grids is shown on maps FA 0100-U1-A through FA 0100-U1-H and FA 0100-U1-GH (Attachment 1).

To accommodate measurement geometry requirements for surfaces of non-uniform smoothness (including junctures), the SHP-360 and 43-68 probes were used to augment the scan survey. First, a 43-37 scan was performed on all surfaces, including those unlikely to meet geometry requirements for that model of probe. Then a repeat scan, using the SHP-360, was performed on areas with surface irregularities that required a smaller probe size. Ninety-degree surface junctures (i.e., wall-wall) were scanned using the 43-68 probe. Wall to floor junctures within the Containment liner were 45-degree angles and did not require special survey measures. As part of the Asbestos Abatement Project during early phases of decommissioning, lockdown was applied to the liner walls above El. -2 feet. All instrument efficiencies were reduced to account for the potential that some lockdown remained on the walls following Containment demolition and remediation activities.

FA-0100-01, Revision 0 Page 2 of 31 Background values were established for each particular instrument probe application based on ambient background values in the survey unit. No material backgrounds were included because of the minor background contribution from bare steel. The background values, listed in Table 1, were used to establish net activity for direct measurements, scan investigation levels, and to confirm the scan MDCs used were appropriate.

The instruments used in this survey unit are listed by model and serial number in Attachment 2 (Table 2-1). Scan MDCs are also listed in Attachment 2 (Table 2-2) and are also compared to the DCGL, the investigation level, and the DCGL_{EMC}. As shown in this table, the scan MDC is less than the investigation criteria in all cases, thus providing high confidence (95% or higher) that an elevated area would be detected in the scanning process. Since the investigation level at the alarm setpoint was always less than the design DCGL_{EMC}, no EMC sample size adjustment was necessary.

TABLE 1

| Survey Unit | Design Criteria | Basis |
|----------------------------|--------------------------------------|---|
| Area | 858.4 m ² | Section 5, LTP, Class 1 |
| | | (Reference I) |
| Number of Direct | 21 | Based on an LBGR of 9,000 |
| Measurements Required | | dpm/100 cm ² , sigma' of 6,853 |
| | | dpm/100 cm ² , and a relative shift |
| | | of 1.3. |
| | | Iype I = Iype II = 0.05 |
| Sample Area | 40.88 m ² | 858.4 m ² /21 samples ² |
| Sample Grid Spacing | 6.39 m | (40.88)"2 |
| Scan Grid Area | 2 m ² | |
| Area Factor | 1.2 | $50 \text{ m}^2 / 40.88 \text{ m}^2 \text{ per LTP},$ |
| | | Revision 3 |
| Scan Area | 858.4 m ² | Class 1 – 100% |
| Background | | |
| 43-68 Direct and Scan | 918 dpm/100 cm ² | Ambient only, efficiency reduced |
| (flat surfaces) | | for lockdown coating |
| SHP-360 Scan | $1,343 \text{ dpm}/100 \text{ cm}^2$ | Ambient only, efficiency reduced |
| (surface irregularities) | | for lockdown coating |
| 43-68 Junctures | 2,167 dpm/100 cm ² | Ambient only, efficiency reduced |
| | | for lockdown coating |
| 43-37 Scans | 477 dpm/100 cm ² | Ambient only, efficiency reduced |
| | · · · | for lockdown coating |
| Scan Investigation Level | DCGL plus background | See Table 2-2 (Attachment 2) |
| DCGL | 18,000 dpm/100 cm ² | LTP, Rev. 3 (Reference 1) |
| Design DCGL _{EMC} | 21,600 dpm/100 cm ² | LTP, Rev. 3 (Reference 1) |

SURVEY UNIT DESIGN PARAMETERS

¹ From LTP Revision 3, Table 5-1A for Containment El. –2 ft., A0100.

² This survey unit was initially designed for N=21 samples. The N=21 design led to a survey unit map with 24 locations on the systematic grid.

C. SURVEY RESULTS

Twenty-four direct measurements were made in Survey Unit 1. All direct measurements were less than the DCGL. Direct measurement data are presented in Table 2.

Scanning resulted in 27 verified alarms. Twenty-six alarms occurred while scanning flat surfaces with the 43-37 probe. One alarm was verified while scanning irregular surfaces with the SHP-360. In addition, one juncture survey was investigated based on professional judgment and one 43-37 flat survey (M158) was evaluated for a discrepancy in the data. The subsequent investigation work is discussed in the following section.

TABLE 2

| Sample Location | Gross Activity dpm/100 cm ² | Net Activity (Table 1 Background Subtracted) dpm/100 cm ² |
|--------------------|---|--|
| FA0100-1-M001 | 4,592 | 3,674 |
| FA0100-1-M002 | 1,088 | 170 |
| FA0100-1-M003 | 1,300 | 382 |
| FA0100-1-M004 | 714 | -204 |
| FA0100-1-M005 | 964 | 46 |
| FA0100-1-M006 | 1,240 | 322 |
| FA0100-1-M007 | 2,177 | 1,259 |
| FA0100-1-M008 | 877 | -41 |
| FA0100-1-M009 | 1,194 | 276 |
| FA0100-1-M010 | 1,039 | 121 |
| FA0100-1-M011 | 1,217 | 299 |
| FA0100-1-M012 | 1,852 | 934 |
| FA0100-1-M013 | 1,081 | 163 |
| FA0100-1-M014 | 1,334 | 416 |
| FA0100-1-M015 | 1,799 | 881 |
| FA0100-1-M016 | 2,143 | 1,225 |
| FA0100-1-M017 | 1,485 | 567 |
| FA0100-1-M018 | 1,447 | 529 |
| FA0100-1-M019 | 1,988 | 1,070 |
| FA0100-1-M020 | 2,094 | 1,176 |
| FA0100-1-M021 | 1,066 | 148 |
| FA0100-1-M022 | 1,032 | 114 |
| FA0100-1-M023 | 926 | 8 |
| FA0100-1-M024 | 1,655 | 737 |
| Sample Mean | 1,513 | 595 |
| Median | 1,270 | 352 |
| Standard Deviation | 785 | 785 |
| Sample Range | 714 - 4592 | -204 - 3.674 |

DIRECT MEASUREMENTS

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D. SURVEY UNIT INVESTIGATIONS PERFORMED AND RESULTS

The scan process identified 27 locations of potentially elevated activity. An investigation was performed for each location, plus one additional grid based on professional judgment, using survey investigation package XA0100-01. Also, the data for grid C158 was evaluated and included with the investigation results. The investigation results and assessment are summarized in Attachment 3 (Table 3-1).

E. SURVEY UNIT DATA ASSESSMENT

An analysis of the direct sample measurement results, including the mean, median, standard deviation, and sample range, are provided in Table 2. The direct measurements were all below the DCGL without subtracting background. The maximum result, with background subtracted, is equivalent to $3,674 \text{ dpm}/100 \text{ cm}^2$. When adjusted for background (ambient background subtracted), the mean residual contamination level is 595 dpm/100 cm². For a DCGL of 18,000 dpm/100 cm², this is equivalent to an annual dose rate of 0.01 mrem/y.³

The 29 grids of potential elevated activity were investigated and/or evaluated as shown in Table 3-1 of Attachment 3 and determined to be approximately 10% of the Elevated Measurement Comparison unity limit, thereby satisfying the EMC criterion.

F. ADDITIONAL DATA EVALUATION

Attachment 4 provides additional data evaluation associated with Survey Unit 1, including relevant statistical information. Based on survey unit direct measurement data, this attachment provides the Sign Test Summary, Quantile Plot, Histogram, and Retrospective Power Curve.

1. The Sign Test Summary provides an overall summary of design input (Table 1) and resulting calculated values used to determine the required number (N) of direct measurements (per LTP Section 5.4.2). The Sign Test Summary is a separate statistical analysis that also calculates the mean, median, and standard deviation of the direct measurements.

The critical value and the result of the Sign Test are provided in the Sign Test Summary Table, as well as a listing of the key release criteria. As shown in the table, all of the key release criteria were clearly satisfied for FSS of this survey unit.

2. The Quantile Plot was generated from direct measurement data listed in Table 2 and indicates general symmetry about the median. The data set and plot are consistent with expectations for a Class 1 survey unit. There is no reason to conclude that the data set represents other than random variations in a Class 1 basement survey unit. It also should be noted that the maximum net activity (3,674 dpm/100 cm² at location M001) is well below the DCGL of 18,000 dpm/100 cm².

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³ This annual dose equivalent is based on LTP Table 6-11 which shows the contaminated concrete dose contribution (for surfaces contaminated at the DCGL) to be 0.301 mrem/y.

- 3. A histogram plot was also developed on the direct measurement values. This plot shows that the direct data were essentially a log-normal distribution with one outlier.
- 4. A Retrospective Power Curve was constructed based on FSS results. The curve shows that the survey unit having a mean residual activity at a small fraction of the DCGL, has a high probability ("power") of meeting the release criteria. Thus, it can be concluded that the direct measurement data support rejection of the null hypothesis, providing high confidence that the survey unit satisfied the release criteria and that the data quality objectives were met.

As mentioned in Section B, removable contamination samples were obtained at each (direct) measurement location. In that this survey unit involved a (backfilled) basement and not a standing building, the removable contamination measurements were not applicable to release decisions for the survey unit. However, the samples were obtained and evaluated, indicating less than MDA values for alpha (i.e., ≤ 4.7 dpm/100 cm²) and beta activity equal to a maximum of 18 dpm/100 cm². Thus, in comparison with the mean survey unit net activity (Table 2), the removable contamination sampling effort indicated that the majority of activity is fixed.

G. CHANGES IN INITIAL SURVEY UNIT ASSUMPTIONS ON EXTENT OF RESIDUAL ACTIVITY

The survey was designed as a Class 1 area; the results were consistent with that classification. The post-remediation direct measurement sample standard deviation was less than the design sigma. Thus, a sufficient number of sample measurements were taken.

H. LTP CHANGES SUBSEQUENT TO SURVEY UNIT FSS

The FSS of Survey Unit 1 was designed and performed using the criteria of the approved LTP Revision 3 Addenda (Reference 1, 2, 3) and the license amendment for activated concrete (Reference 4).

I. CONCLUSION

The FSS of this survey unit was designed based on the LTP designation as a Class 1 area. The survey design parameters are presented in Table 1. The required number of direct measurements was determined for the Sign Test in accordance with the LTP. As presented in Table 2, all beta direct measurements were less than the DCGL of 18,000 dpm/100 cm².

A Sign Test Summary analysis demonstrated that the Sign Test criteria were satisfied. The direct measurement sigma was determined to be less than that used for design, thus indicating that a sufficient number of samples were taken.

The Retrospective Power Curve shown in Attachment 4 confirmed that sufficient samples were taken to support rejection of the null hypothesis, providing high confidence that the survey unit satisfied the release criteria and the data quality objectives were met. Attachment 4 also revealed that direct measurement data represented essentially a log-normal distribution, with variance consistent with expectations for a Class 1 survey unit. The scan survey design for this survey unit was developed in accordance with the LTP with significant aspects of the design discussed in Section B and Table 1. Attachment 3 shows the areas identified by verified alarms and provides the results of the investigation actions. The areas under investigation were evaluated using the appropriate area factor. The survey unit was determined to satisfy the elevated measurement comparison unity rule per the LTP methodology.

In addition, while not part of the release decision criteria, removable contamination sampling confirmed that the majority of remaining activity in this basement survey unit was fixed.

It is concluded that FA0100 Survey Unit 1 meets the release criteria of 10CFR20.1402 and the State of Maine enhanced criteria.

J. REFERENCES

- 1. Maine Yankee License Termination Plan, Revision 3, October 15, 2002
- 2. Maine Yankee letter to the NRC, MN-02-061, dated November 26, 2002
- 3. NRC letter to Maine Yankee, dated February 28, 2003
- 4. Maine Yankee letter to NRC, MN-03-049, dated September 11, 2003

Survey Unit Maps

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Survey Unit Instrumentation

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| INSTRUMENT | INFORMATION |
|------------|------------------|
| E-600 S/N | Probe S/N (type) |
| 2617 | 190752 (43-37) |
| 1625 | 190329 (43-37) |
| 2488 | 190327 (43-37) |
| 1933 | 190750 (43-37) |
| 2489 | 190751 (43-37) |
| 1606 | 190285 (43-37) |
| 2621 | 190669 (43-37) |
| 1648 | 168748 (43-37) |
| 1928 | 190283 (43-37) |
| 1929 | 148952 (43-37) |
| 1648 | 148952 (43-37) |
| 1933 | 455 (SHP-360) |
| 2618 | 453 (SHP-360) |
| 1645 | 453 (SHP-360) |
| 1933 | 464 (SHP-360) |
| 2488 | 148938 (43-68) |
| 1933 | 148937 (43-68) |
| 1648 | 148937 (43-68) |
| 1648 | 148932 (43-68) |
| 1933 | 149075 (43-68) |
| 1625 | 149069 (43-68) |

TABLE 2-1

INSTRUMENT INFORMATION

TABLE 2-2

INSTRUMENT SCAN MDC, DCGL, INVESTIGATION LEVEL, AND DESIGN DCGLEMC

| Detector | 43-68 Flats | 43-68 Junctures | SHP-360 Surface Irregularities | 43-37 Flats |
|---|-------------------------------------|-------------------------------------|--------------------------------------|---|
| Scan MDC (dpm/100 cm ²) | 1,134 (Note 1) | 2,676 (Note 1) | 3,209 (Note 1) | 2,006 (Note 1) |
| $\frac{\text{DCGL}}{(\text{dpm}/100 \text{ cm}^2)}$ | 18,000 | 18,000 | 18,000 | 18,000 |
| Investigation Level (Alarm Setpoint) dpm/100 cm ² (Reference 2) | 18,896 ~ DCGL plus Background | 20,153 ~ DCGL plus Background | 19,468 ~ DCGL plus Background | 20,188 ~ DCGL plus Background (Note 2) |
| Design DCGL _{EMC} (dpm/100 cm ²) (from RR Table 1) | 21,600 | 21,600 | 21,600 | 21,600 |

NOTES: 1. Scan MDC from LTP Rev. 3, Table 5-6, was adjusted for a change in efficiency due to different materials and/or geometry.
2. Investigation level was calculated for only 126 cm² of detection surface area.

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Investigation Table

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TABLE 3-1

INVESTIGATION TABLE

| Scan A | larm | <u> </u> | Scan Investigation | | DCGL _{EMC} Comparison | | | |
|------------------------|-----------------------------|--------------------------------|--|----------------------------|-------------------------------------|---|--|---|
| Elevated Area Grid No. | Alarm Setpoint (cpm)⁴ | Initial Scan Value (cpm) | Maximum Scaler Value (cpm) ⁵ | Area (cm ²) | Area Factor (AF) ⁶ | DCGL _{EMC} (dpm/100 cm ²) | Elevated Area Activity (dpm/100 cm ²) ⁷ | DCGL _{EMC} Comparison Factor |
| M009 (43-37) | 6,410 | 7,940 | N/A | N/A | N/A | N/A | < DCGL | 0.00E+00 |
| M086 (43-37) | 6,410 | 12,130 | 16,350 | 50 | 10,000 | 1.80E+08 | 61,791 | 3.43E-04 |
| M099 (43-37) | 6,410 | 23,200 | 19,570 | 50 | 10,000 | 1.80E+08 | 73,961 | 4.11E-04 |
| M100 (43-37) | 6,410 | 8,050 | N/A | N/A | N/A | N/A | < DCGL | 0.00E+00 |
| M129 (43-37) | 6,410 | 6,740 | N/A | N/A | N/A | N/A | < DCGL | 0.00E+00 |
| M152 (43-37) | 6,410 | 8,400 | N/A | N/A | N/A | N/A | < DCGL | 0.00E+00 |
| M158 (43-37) | 6,410 | 6,690 | 6,690 | 20,000 | 25 | 4.50E+05 | 25,283 | 5.62E-02 |
| M166 (43-37) | 6,410 | 6,670 | N/A | N/A | N/A | N/A | < DCGL | 0.00E+00 |
| M207 (43-37) | 6,410 | 6,960 | N/A | N/A | N/A | N/A | < DCGL | 0.00E+00 |

⁴ Juncture, 43-37, and SHP-360 surveys were performed with alarm setpoints equal to 3600 cpm, 8800 cpm, and 1000 cpm, respectively. All data was evaluated with the lower setpoints shown in this table.

⁵ Scan alarms occurring with the 43-37 were investigated with the 43-68 detector. All 43-37 alarm grids were rescanned with a 43-68 probe and an alarm setpoint of 5000 cpm. Values shown as N/A indicate peak hold readings during the 43-68 scan that were below the investigation level.

⁶ For investigation purposes, consistent with LTP dose modeling for basement concrete surfaces and LTP Section 6.8.1, a conservative area factor was determined by the formula of $AF = 50 \text{ m}^2/\text{actual size of the elevated area.}$

⁷ As an additional conservatism, the background and survey unit mean activity have not been subtracted in calculating the elevated area activity.

| Scan Alarm | | | Scan Inve | Scan Investigation DCGL _{EMC} Comparison | | | | |
|-------------------------|-----------------------------|--------------------------------|--|---|-------------------------------------|---|--|---|
| Elevated Area Grid No. | Alarm Setpoint (cpm)⁴ | Initial Scan Value (cpm) | Maximum Scaler Value (cpm) ⁵ | Area (cm ²) | Area Factor (AF) ⁶ | DCGL _{EMC} (dpm/100 cm ²) | Elevated Area Activity (dpm/100 cm ²) ⁷ | DCGL _{EMC} Comparison Factor |
| M264 (43-37) (Area 1) | 6,410 | 10,750 | 5,360 | 200 | 2,500 | 4.50E+07 | 20,257 | 4.50E-04 |
| M264 (43-37) (Area 2) | 6,410 | 10,750 | 5,410 | 150 | 3,333 | 6.00E+07 | 20,446 | 3.41E-04 |
| M266 (43-37) | 6,410 | 14,290 | N/A | N/A | N/A | N/A | < DCGL | 0.00E+00 |
| M268 (43-37) | 6,410 | 6,690 | N/A | N/A | N/A | N/A | < DCGL | 0.00E+00 |
| M269 (43-37) (Area 1) | 6,410 | 9,520 | 8,730 | 200 | 2,500 | 4.50E+07 | 32,993 | 7.33E-04 |
| M269 (43-37) (Area 2) | 6,410 | 9,520 | 2,590 | 35 | N/A | N/A | < DCGL | 0.00E+00 |
| M270 (43-37) | 6,410 | 9,400 | 4,880 | 60 | N/A | N/A | < DCGL | 0.00E+00 |
| M274 (43-37) | 6,410 | 6,780 | N/A | N/A | N/A | N/A | < DCGL | 0.00E+00 |
| M275 (43-37) | 6,410 | 11,500 | N/A | N/A | N/A | N/A | < DCGL | 0.00E+00 |
| M287 (43-37) | 6,410 | 23,500 | 25,400 | 80 | 6,250 | 1.13E+08 | 95,994 | 8.53E-04 |
| M318 (43-37) | 6,410 | 12,650 | N/A | N/A | N/A | N/A | < DCGL | 0.00E+00 |
| M327 (43-37) | 6,410 | 18,420 | 19,300 | 345 | 1,449 | 2.61E+07 | 72,940 | 2.80E-03 |
| M327 (SHP-360) (Area 1) | 580 | 889 | 593 (SHP-360) | 50 | 10,000 | 1.80E+08 | 19,905 | 1.11E-04 |
| M327 (SHP-360) (Area 2) | 580 | 889 | 845 (SHP-360) | 480 | 1,042 | 1.88E+07 | 28,363 | 1.51E-03 |

| Scan Alarm | | | Scan Inve | stigation | | DCGLEMO | _c Comparison | |
|-------------------------|-----------------------------|--------------------------------|--|----------------------------|-------------------------------------|---|--|---|
| Elevated Area Grid No. | Alarm Setpoint (cpm)⁴ | Initial Scan Value (cpm) | Maximum Scaler Value (cpm) ⁵ | Area (cm ²) | Area Factor (AF) ⁶ | DCGL _{EMC} (dpm/100 cm ²) | Elevated Area Activity (dpm/100 cm ²) ⁷ | DCGL _{EMC} Comparison Factor |
| M332 (43-37) (Area 1) | 6,410 | 11,150 | 9,270 | 300 | 1,667 | 3.00E+07 | 35,034 | 1.17E-03 |
| M332 (43-37) (Area 2) | 6,410 | 11,150 | 3,670 | 80 | N/A | N/A | < DCGL | 0.00E+00 |
| M333 (43-37) | 6,410 | 15,730 | N/A | N/A | N/A | N/A | < DCGL | 0.00E+00 |
| M334 (43-37) (Area 1) | 6,410 | 16,040 | 8,200 | 400 | 1,250 | 2.25E+07 | 30,990 | 1.38E-03 |
| M334 (43-37) (Area 2) | 6,410 | 16,040 | 3,270 | 60 | N/A | N/A | < DCGL | 0.00E+00 |
| M335 (43-37) | 6,410 | 56,800 | 23,800 | 120 | 4,167 | 7.50E+07 | 89,947 | 1.20E-03 |
| M341 (43-37) | 6,410 | 9,170 | 1,340 | 1,380 | N/A | N/A | < DCGL | 0.00E+00 |
| M354 (43-37) | 6,410 | 129,200 | N/A | N/A | N/A | N/A | < DCGL | 0.00E+00 |
| M365 (43-37) | 6,410 | 7,430 | N/A | N/A | N/A | N/A | < DCGL | 0.00E+00 |
| M381 (43-68 - Juncture) | 2,260 | 547 | 356 | N/A | N/A | N/A | < DCGL | 0.00E+00 |
| M389 (43-37) | 6,410 | 6,750 | N/A | N/A | N/A | N/A | < DCGL | 0.00E+00 |
| Survey Unit Remainder | N/A | N/A | N/A | N/A | N/A | DCGL = 18,000 | Survey Unit Mean = 595 | 3.31E-02 |
| | | | | | | | Total | 1.01E-01 |

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Statistical Data

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| Evaluation Input Values | | Comments |
|---|----------|---------------------------------------|
| Survey Package: | FA-0100 | Containment Bld |
| Survey Unit: | 01 | |
| Evaluator: | GP | |
| DCGL _w : | 18,000 | |
| DCGL _{emc} : | 21,600 | |
| LBGR: | 9,000 | |
| Sigma: | 6,853 | |
| Type I error: | 0.05 | |
| Type Il error: | 0.05 | |
| Total Instrument Efficiency: | 21.0% | |
| Detector Area (cm ²): | 126 | |
| | | Choosing 'N/A' sets material |
| Material Type: | N/A | background to "0" |
| Calculated Values | 臺州國際常義 | Comments |
| Z _{1-a} : | 1.645 | |
| Z _{1-B} : | 1.645 | |
| Sign p: | 0.903199 | |
| Calculated Relative Shift: | 1.3 | |
| Relative Shift Used: | 1.3 | Uses 3.0 if Relative Shift >3 |
| N-Value: | 17 | |
| N-Value+20%: | 21 | |
| Static Data Values | | Comments |
| Number of Samples: | . 24 | |
| Median: | 352 | |
| Mean: | 595 | |
| Net Static Data Standard Deviation: | 784 | |
| Total Standard Deviation: | 784 | SRSS |
| Maximum: | 3,674 | |
| Sign Test Results | | Comments |
| Adjusted N Value: | 24 | |
| S+ Value: | 24 | |
| Critical Value: | 16 | |
| Criteria Satisfaction | | Comments |
| Sufficient samples collected: | Pass | |
| Maximum value <dcgl<sub>w:</dcgl<sub> | Pass | |
| Median value < DCGL: | Pass | |
| Mean value < DCGL: | Pass | |
| Maximum value <dcgl<sub>emc:</dcgl<sub> | Pass | · · · · · · · · · · · · · · · · · · · |
| Total Standard Deviation <= Sigma: | Pass | |
| Sign test results: | Pass | |
| Final Status | | Comments |
| The survey unit passes all conditions: | Pass | |

Survey Package FA-0100 Unit 1 Surface Sign Test Summary



One-Sample T-Test Report

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| Page/Date/Time | 2 11/22/04 10:16:50 AM |
|----------------|---------------------------------------|
| Database | C:\Program Files\NCSS97\FA0100SU-1.S0 |
| Variable | C2 |

Plots Section



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Chart Section

