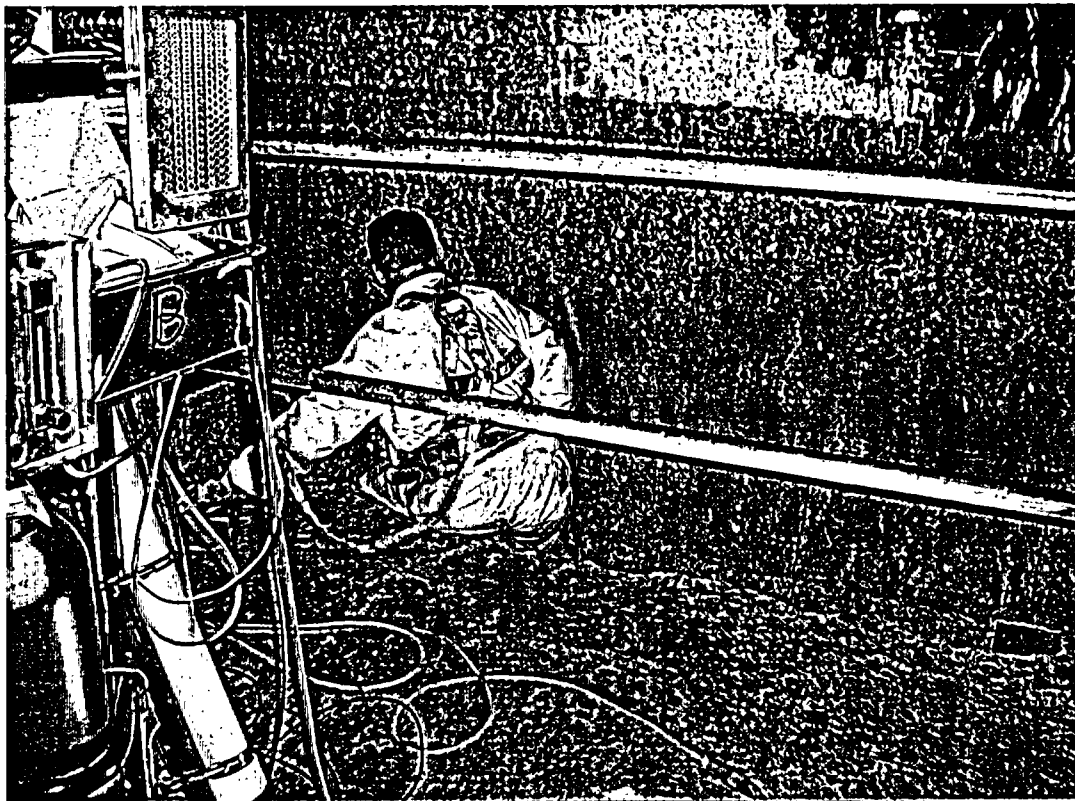


Trojan Nuclear Plant

Final Survey Report Auxiliary Building Interior

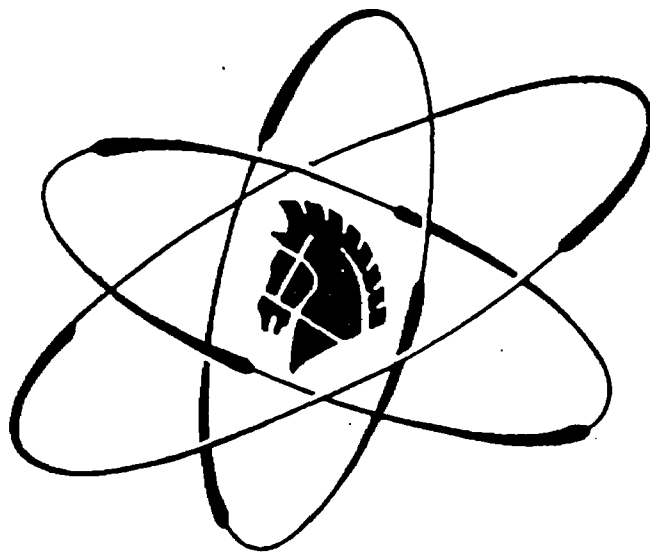
Volume 1
Book 1 of 2



Enclosure to VPN-071-2004
December 3, 2004

Final Survey Report

**Auxiliary Building
Interior**



Portland General Electric

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EXECUTIVE SUMMARY

This report presents the results and conclusions of the final survey conducted by Portland General Electric Company of the Auxiliary Building interior. This building is located between the Fuel and Control Buildings and adjacent to the Containment Building. Contaminated plant systems, components, and structural surfaces were removed or otherwise remediated as part of the decommissioning process. A final survey of the remaining structural surfaces within the Auxiliary Building was performed (embedded piping and areas impacted by contaminated water from the Spent Fuel Pool are addressed separately). Final survey data collection began in September 2002 and was completed in August 2004.

The final survey was performed in accordance with the final survey process described in PGE-1061, "Trojan Nuclear Plant Defueled Safety Analysis Report and License Termination Plan (PGE-1078)," referred to as the LTP. The equipment and structural surfaces within the Auxiliary Building were divided into 144 survey units, encompassing approximately 21,000 square meters of surface area, and classified according to their potential for containing residual radioactivity. Eighty-six survey units were classified as Class 1 and 58 survey units as Class 2. There were no survey units classified as Class 3. Survey data were collected from each survey unit according to data collection patterns and frequencies established for each classification. Scan measurements were performed over approximately 63 percent of the entire surface area and a total of 4,956 static measurements were collected as final survey data. In addition, 4,897 supplemental removable surface radioactivity measurements were collected.

The final survey data demonstrate that each survey unit meets the radiological criteria for unrestricted use specified in 10 CFR 20.1402. Based on the results of the final survey, Portland General Electric Company concludes the Auxiliary Building interior meets the regulatory requirements for release to unrestricted use.

1. INTRODUCTION

1.1 PURPOSE AND SCOPE

This report presents the results and conclusions of the final survey of the Auxiliary Building interior. It provides the information required by 10 CFR 50.82(a)(11), which demonstrates that the Auxiliary Building interior meets the radiological criteria for unrestricted use specified in 10 CFR 20.1402. This report also documents the final survey was performed in accordance with the final survey process described in PGE-1061, "Trojan Nuclear Plant Defueled Safety Analysis Report and License Termination Plan (PGE-1078)," hereinafter referred to as the LTP. Embedded piping and areas impacted by contaminated water from the Spent Fuel Pool are addressed separately.

1.2 DESCRIPTION

The Auxiliary Building, shown in Figure 1-1, is found near the center of the industrial portion of the plant site north of the Containment Building between the Fuel and Control Buildings. The Auxiliary Building has two floors below grade (elevations 5' and 25'), one floor at grade (elevation 45'), three floors above grade (elevations 61', 77', and 93'), and a partial floor (elevation 104'). The portion at or above grade is structurally connected to the Fuel Building on the east and to the Control Building on the west. Walls below grade and slabs are constructed of reinforced concrete. Interior framing members are structural steel. Interior walls above grade are generally constructed of concrete masonry block.

The Auxiliary Building, including the pipe façade, housed major plant equipment such as the Containment spray, safety injection, residual heat removal (RHR), positive displacement charging, spent fuel pool cooling, service water booster, and component cooling water pumps. Other equipment included the volume control tank; demineralizers and filters; boric acid evaporators; liquid and gaseous radioactive waste system tanks and pumps; and ventilation equipment for the Auxiliary, Fuel, and Containment Buildings. Many of the plant components were located in thick walled cubicles that provided shielding to personnel during plant operation. The Auxiliary Building also contains vertical pipe chases and horizontal pipeways that were used to provide pathways for routing pipe from one component to another component or end use point.

In its post-final survey configuration, the Auxiliary Building exists as an empty building with bare rooms. Equipment and components, as well as heavily contaminated concrete and masonry surfaces, were removed during decommissioning. Segments of the Auxiliary/Fuel Building ventilation ductwork are the only major pieces of equipment remaining in the Auxiliary Building. Sections of the Elevation 45' pipe façade floor were also removed, exposing sub-floor sand areas.

The Auxiliary Building interior was prepared for final survey by a series of decommissioning activities, including radiological characterization, dismantlement and demolition, remediation, and turnover to final survey. A general description of these activities is given in Appendix A. Detailed decommissioning information as well as a brief radiological history is contained in the

LTP, Section 3. Radiological characterization data were gathered and analyzed. The results guided decisions regarding the need for, extent of, and most effective means of remediation. Contaminated structures, equipment, and components were dismantled or demolished and removed for disposal. Remaining structure surfaces were remediated, as needed, and then systematically turned over for final survey. An assessment of the operation and radiological history established the initial classification of areas within the Auxiliary Building.

The Auxiliary Building interior was divided into six floor areas to facilitate survey preparation and final survey activities. The respective interior surface areas are shown in the following table.

Auxiliary Building Interior Surface Area

| Interior Surfaces | Area (m ²) |
|----------------------------|------------------------|
| Elevation 5' | 4,383 |
| Elevation 25' | 2,380 |
| Elevation 45' | 2,996 |
| Elevation 61' | 3,465 |
| Elevation 77' | 3,533 |
| Elevation 93' & 104' | 4,199 |
| Total Surface Area: | 20,956 |

1.3 SITE RELEASE CRITERIA

The site release criteria applied to the final survey correspond to the radiological criteria for unrestricted use given in 10 CFR 20.1402, which are:

1. **Dose Criterion:** The residual radioactivity that is distinguishable from background radiation results in a Total Effective Dose Equivalent (TEDE) to an average member of the critical group that does not exceed 25 mrem/yr, including that from groundwater sources of drinking water; and
2. **ALARA Criterion:** The residual radioactivity has been reduced to levels that are as low as reasonably achievable (ALARA).

1.3.1 APPLICATION OF THE SITE RELEASE CRITERIA

Levels of residual radioactivity that correspond to the allowable radiation dose and ALARA levels of the site release criteria were derived by analysis of various scenarios and pathways (e.g., direct radiation, inhalation, ingestion) through which exposures could occur. These derived levels, referred to as Derived Concentration Guideline Levels (DCGLs), form the basis for the following four conditions which, when met, satisfy the site release criteria:

1. The average residual radioactivity above background is equal to or below the DCGL (where penetrating radiation from embedded piping is present, the average is compared to 0.8 x DCGL);

2. Individual measurements, representing small areas of residual radioactivity which exceed the DCGL, do not exceed the elevated measurement comparison DCGL;
3. Where one or more individual static measurements exceed the DCGL, the average residual radioactivity passes the Sign statistical test; and
4. Remediation is performed where it is ALARA to reduce the levels of residual radioactivity to below the concentrations necessary to meet the DCGLs.

The manner in which these conditions were met is described in Section 4.2.

1.3.2 DERIVED CONCENTRATION GUIDELINE LEVELS

The residual radioactivity concentration levels on structural surfaces remaining in the Auxiliary Building, including the Auxiliary/Fuel Building HVAC, were compared to a gross activity DCGL of 7,500 dpm/100 cm². The gross activity DCGL was derived for surface residual radioactivity and developed using the methodology described in the LTP, Section 4.2.3, based on the radionuclide-specific screening DCGLs given in the LTP, Table 4-1. The residual radioactivity concentration levels of the sand in the exposed sub-floor areas were compared to the radionuclide-specific screening DCGLs for volumetric residual radioactivity given in the LTP, Table 4-1.

1.3.2.1 Auxiliary Building Gross Activity DCGL

The gross activity DCGL of 7,500 dpm/100 cm² was developed for application to interior surfaces of the Auxiliary Building. Samples from nine locations were collected to conservatively represent the radionuclide distribution found on the interior surfaces of the Auxiliary Building. The sample locations were not biased towards any particular group of Auxiliary Building systems, rooms, or elevations. Sample locations were randomly selected from a population of areas on the floors and walls in the Auxiliary Building where fixed surface contamination was detected. The samples were collected prior to remediation and sent to an offsite laboratory for analysis. The laboratory results were used to calculate a gross activity DCGL value for each sample.

Several radionuclides of interest were detected in each of the samples. The two radionuclides detected in all the samples were ⁶³Ni and ¹³⁷Cs. They accounted for the highest activity concentrations, ranging from 76 to 100% of the total activity, in all but one of the samples. In that sample, ³H had the highest activity concentration of 49%, compared to 44% for ⁶³Ni and ¹³⁷Cs combined. For all samples, alpha emitters were either not detected by sample analysis or were detected at activity concentrations that are insignificant in terms of dose contribution.

For purposes of calculating the DCGL, radionuclides of interest that were not detected were assumed present at their minimum detectable concentration (MDC). They were included in the DCGL calculation where their MDC exceeded 10% of their respective screening DCGLs. There was some variability in relative radionuclide fractions when one sample was compared to another. Therefore, the most conservative calculated value, 7,500 dpm/100 cm², was selected as

the gross activity DCGL. The radionuclide distribution assumed for this DCGL is shown in the following table.

Auxiliary Building Gross Activity DCGL Radionuclide Distribution

| Radionuclide | Activity Fraction | Surface Screening DCGL (dpm/100 cm ²) | Activity Fraction/DCGL | Fraction of DCGL ^a | DCGL Dose Contribution (mrem/yr) |
|-----------------------|-------------------|---|------------------------|-------------------------------|----------------------------------|
| ³ H | 0.007 | 1.2E+08 | 5.57E-11 | <0.001 | <0.1 |
| ¹⁴ C | 0.015 | 3.7E+06 | 3.94E-09 | <0.001 | <0.1 |
| ⁶⁰ Co | 0.146 | 7.1E+03 | 2.06E-05 | 0.154 | 3.9 |
| ⁶³ Ni | 0.207 | 1.8E+06 | 1.15E-07 | 0.001 | <0.1 |
| ⁹⁰ Sr | 0.003 | 8.7E+03 | 3.63E-07 | 0.003 | <0.1 |
| ¹³⁷ Cs | 0.611 | 2.8E+04 | 2.18E-05 | 0.163 | 4.1 |
| ²³⁸ Pu | <0.001 | 3.0E+01 | 7.83E-06 | 0.058 | 1.0 |
| ^{239/240} Pu | <0.001 | 2.8E+01 | 5.59E-06 | 0.041 | 1.0 |
| ²⁴¹ Pu | 0.009 | 8.8E+02 | 9.89E-06 | 0.073 | 1.8 |
| ²⁴¹ Am | 0.001 | 2.7E+01 | 5.20E-05 | 0.388 | 9.7 |
| ^{243/244} Cm | 0.001 | 3.9E+01 | 1.60E-05 | 0.119 | 3.0 |
| Totals: | 1.000 | --- | 1.34E-04 | 1.000 | 25.0 |

Notes

^a This value is calculated by dividing the Activity Fraction/DCGL value for the radionuclide by the sum of the Activity Fraction/DCGL values for all the radionuclides.

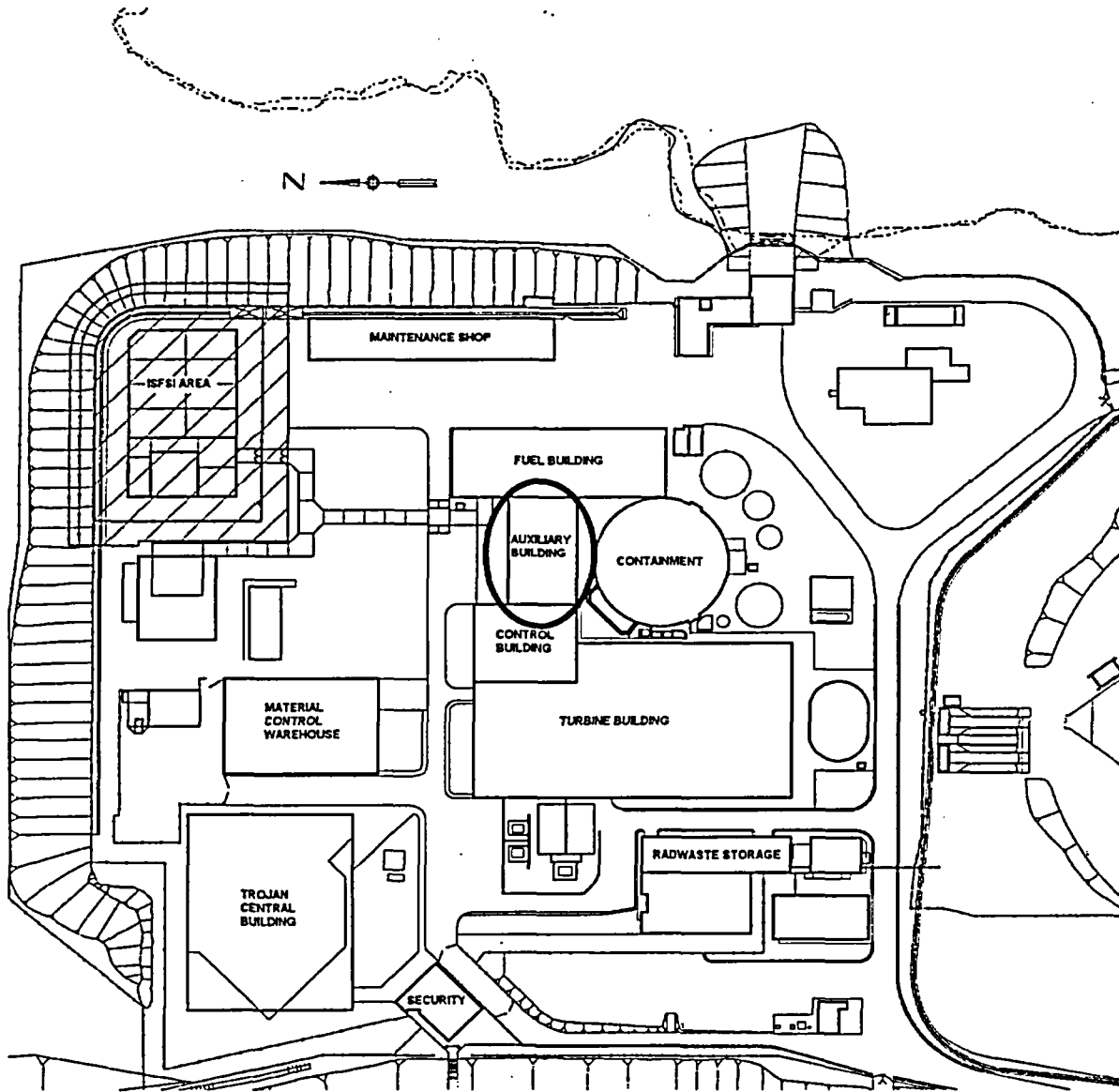
1.3.2.2 Unity Rule Application

Radionuclide-specific screening DCGLs for volumetric residual radioactivity were used in a unity rule application for exposed sub-floor sand areas in the Elevation 45' pipe façade. Samples of sand were collected and analyzed onsite by gamma spectroscopy and sent offsite for tritium analysis. The measured radioactivity concentration levels were compared to the corresponding radionuclide-specific screening DCGL value for the three detected radionuclides, given in the table below. The unity rule was then applied to the sum of the radionuclides ratioed to their respective DCGLs.

Radionuclide-Specific Screening DCGLs

| Radionuclide | Volumetric Screening DCGL (pCi/g) |
|-------------------|-----------------------------------|
| ³ H | 1.1E+02 |
| ⁶⁰ Co | 3.8E+00 |
| ¹³⁷ Cs | 1.1E+01 |

Figure 1-1
Trojan Plant Layout



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2. FINAL SURVEY DESIGN

The final survey was designed and performed as described in the LTP, Section 4. The Data Quality Objectives (DQO) process was used to ensure that the final survey results were of sufficient quality to support the final decision. The Auxiliary Building interior was divided into survey units of proper size, which were categorized and classified according to the type and potential of residual radioactivity. Instrumentation and survey methods, appropriate to the type of radiation being measured, were used to collect scan, static, and supplemental measurements. The measurements were collected in accordance with administrative and quality controls instituted to provide assurance of accurate results.

2.1 SURVEY UNITS

The Auxiliary Building interior was divided into 144 survey units based on the physical characteristics, the potential for elevated residual radioactivity, and the size of the area with similar potential for residual radioactivity.

2.1.1 CATEGORY

Survey units were assigned to one of the following three categories based on the physical characteristics and the type of residual radioactivity present:

- Structures with surface residual radioactivity where the Auxiliary Building gross activity DCGL was applied. This type included structural floor, wall, and ceiling surfaces. There were 142 survey units in this category
- Areas and materials with volumetric residual radioactivity where the radionuclide-specific screening DCGLs for volumetric residual radioactivity were applied. This type included the Elevation 45' pipe façade exposed sub-floor sand areas. There was one survey unit in this category.
- Plant systems and other components with accessibility, dimensional, or operational survey design constraints that precluded their being categorized as a structure. This type included the Auxiliary/Fuel Building heating, ventilation, and air conditioning (HVAC) system, to which the Auxiliary Building gross activity DCGL was applied. There was one survey unit in this category.

2.1.2 CLASSIFICATION

Survey units were classified as Class 1 or Class 2 based on the potential for residual radioactivity. There were no Class 3 survey units. Areas with residual radioactivity that exceeded the DCGL prior to remediation were divided into 86 Class 1 survey units. Areas with residual radioactivity detectable above background levels, but that did not exceed the DCGL prior to remediation, were divided into 58 Class 2 survey units.

The classification process incorporated the working hypothesis that all areas had a potential for residual radioactivity above the DCGL. This initial assumption meant that a survey unit was initially considered Class 1 unless a basis for classification as Class 2 was identified. Early in the final survey planning process, little or no characterization data were available. Elevated radiation levels from contaminated surfaces, components, and equipment prevented the collection of meaningful radiological data. Some surfaces were physically inaccessible. During the course of decommissioning, the contaminated components and equipment were removed, surfaces were made accessible, and a substantial amount of characterization data was collected. The data, summarized in Table 2-2, showed that these areas could be properly classified as Class 2. This approach was consistent with that described in the LTP, in which areas are initially considered Class 1 areas unless a basis for classification as Class 2 or Class 3 is identified. Both scan and static measurement data collected during final survey confirmed the classification decisions made.

2.1.3 SURVEY UNIT SIZE

The Auxiliary Building interior was divided into survey units ranging in size from 10 to 783 m². Survey units were sized to ensure that survey data points were relatively uniformly distributed among areas of similar potential for residual radioactivity. Survey units were designed to have relatively simple shapes unless an unusual shape was appropriate for the operational history of the area. Where possible, existing building characteristics such as horizontal and vertical structural supports, walls, and rooms were used to define the boundaries of the survey units.

Class 1 survey units were 97 m² in floor area or less, with the exception of a single survey unit (S05045B) with 125 m² in floor area. Class 2 survey units were 198 m² in floor area or less.

The floor area of survey unit S05045B exceeded the Class 1 sizing specification of 100 m² by 25%. Consequently, the survey design increased the minimum number of static measurements by 25% to assure a proper sampling density was maintained. Due to the configuration of the physical area, the net effect of creating two survey units from the same floor area would have been an increase in the number of static measurements, which was done by the survey design.

2.1.4 IDENTIFICATION NOMENCLATURE

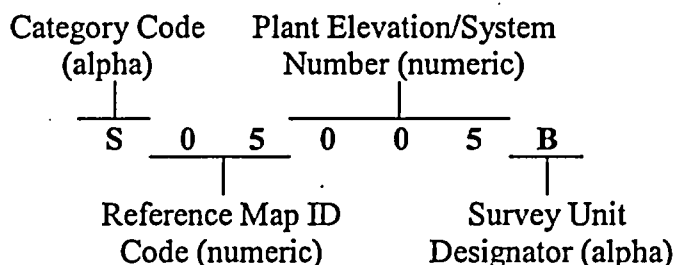
Each survey unit was identified by a seven-digit identification code. The first digit represents the survey unit category. One of three category codes was used:

- S – structure with surface residual radioactivity
- G – ground/land area or materials with volumetric residual radioactivity
- P – plant system or component with surface residual radioactivity

The next two digits represent the reference map identification code. For the Auxiliary Building, "05" was used. The next three digits represent the plant elevation, or plant system number. Where the survey unit was other than a floor surface, this number represents the plant elevation from which the survey unit was accessed. The last digit is an alpha sequential survey unit designator that was assigned in sequential order of the survey unit being created. The following

figure illustrates the survey unit identification code for the 2nd survey unit beginning at Elevation 5' of the Auxiliary Building.

Survey Unit Identification Nomenclature



2.2 INSTRUMENTATION

Portable and laboratory instrumentation capable of detecting the radiation types and energies of interest were selected, calibrated, and maintained for final survey data collection. Commercially available radiation detection and measurement instrumentation was selected based on reliable operation, detection sensitivity, operating characteristics, and expected performance in the field. Radioactive sources used for calibration purposes are traceable to the National Institute of Standards and Technology (NIST).

2.2.1 PORTABLE INSTRUMENTATION

Scan and static surface radioactivity measurements were performed using the Ludlum Model 2350-1 data logging survey meter with one of three types of Ludlum detectors: gas-flow proportional (GFP), Geiger-Mueller (G-M), or scintillation. Table 2-1 gives the model number and a description of the detectors used.

2.2.1.1 Calibration and Maintenance

Survey instruments were calibrated for the radiation types and energies of interest. The following table provides typical information on the calibration sources used.

Typical Portable Instrumentation Calibration Sources

| Source Description | Radiation of Interest | Source Geometry | Radio-nuclide | Source Activity | 2π Surface Emission Rate |
|--|-----------------------|------------------|------------------|-----------------|---------------------------------|
| Acrylic-backed, w/0.9 mg/cm ² mylar cover | beta | 10 x 15 cm plate | ⁹⁹ Tc | 23,000 dpm | 6,800 β/min/100 cm ² |
| Stainless steel-backed electro-plated Tc metal | beta | 4.1 cm dia. disk | ⁹⁹ Tc | 20,000 dpm | 12,000 β/min |

Radionuclide mixture ratios and varying energies were accounted for during calibration by using a calibration source with a conservative average energy as compared to the weighted average energy of the radionuclide mixture.

A total efficiency was established for each detector. The total efficiency is the product of the instrument efficiency and the source (or surface) efficiency for a specified survey geometry or measurement technique. The instrument efficiency, i.e., the ratio between the net count rate of the instrument and the 2π surface emission rate of a radiation source, was determined by counting the source with the detector in a fixed position from the source (reproducible geometry). A jig was used to create the reproducible geometry and a source to detector distance of 1 cm was normally used. A value of 0.5 was used for the source efficiency for smooth surfaces; a value of 0.3 for concrete scabbled surfaces. These values were established based on beta energies of the expected radionuclide distribution and on surface geometry considerations. The source efficiency for beta particle emission is the ratio between the number of radiation particles emerging from the measurement surface of the area being surveyed (the source) and the total number of radiation particles being released within that source per unit time.

2.2.1.2 Instrument Response

Instrument response was checked before and after instrument use each day. A check source was used that emitted the same type of radiation (i.e., beta) as the radiation being measured and that gave a similar instrument response (see the preceding table). The response check was performed using a specified source-detector alignment that could easily be repeated. If the instrument failed its response check, it was not used until the problem was resolved. Measurements made between the last acceptable response check and the failed check were evaluated and, if appropriate, discarded.

2.2.1.3 Minimum Detectable Concentration

A minimum detectable concentration (MDC) was determined for each instrument and scan and static measurement method that were used for survey data collection. Instruments used for scan measurements were capable of detecting radiation of interest to an MDC of less than 35% of the DCGL at a scan rate of 5 cm/sec. The exception to this was the Model 44-9 pancake GM detector, which typically could not achieve a scan MDC of less than the DCGL. Where this detector was used, the survey design prescribed compensatory measures that included using a lower scan rate (i.e., 3 cm/sec), limiting the size of the survey unit area, and/or increasing the number of static measurements. Instruments used for static measurements were capable of detecting radiation of interest to an MDC of less than 45% of the DCGL with a count time of one minute.

2.2.2 LABORATORY INSTRUMENTATION

On-site laboratory instruments were used to perform gamma spectroscopy of bulk material (i.e., sand) samples and gas proportional counting of removable surface radioactivity samples (smears). Removable surface radioactivity measurements were performed using the Tenelec Model LB5100 GFP alpha/beta counting system. Volumetric residual radioactivity measurements were made using the Canberra Genie-2000 spectroscopy counting system with an Ortec high-purity germanium detector. The laboratory instruments used are described in the following table.

Laboratory Instrumentation

| | Tennelec Model LB5100 | Genie-2000 w/Ortec Detector |
|-------------------------------------|--|--|
| Detector Type | GFP | Scintillation |
| Radiation Detected | beta | Gamma |
| Measurement Type | removable surface radioactivity | volumetric radioactivity |
| Detector Description | 57 mm dia. detector with 80 µg/cm ² mylar window | 58 mm dia. x 79 mm long high-purity germanium |
| Background^a (cpm) | 2 to 61 | N/A |
| Efficiency (cnts/dis) | 0.333 to 0.340 | 0.005 to 0.009 ^a |
| Count Time (min) | 2 | 20 |
| MDC | 12 to 59 dpm/100 cm ² | 0.041 to 0.064 pCi/g ^b |

Notes

^a Values given represent a typical range of peak efficiencies per channel for energy lines of gamma-emitting radionuclides of interest (i.e., ⁶⁰Co and ¹³⁷Cs).

^b Values given represent a typical range of MDCs for gamma-emitting radionuclides of interest.

2.2.2.1 Calibration and Maintenance

Laboratory instruments were calibrated for the radiation types and energies of interest by counting a radionuclide standard and comparing the results with the actual concentration on the certificate of calibration provided by the manufacturer of the radionuclide standard. The following table provides typical information on the radionuclide standards used.

Typical Laboratory Instrumentation Calibration Sources

| Source Material | Radiation of Interest | Source Geometry | Source Density | Radionuclides of Interest | Source Activity |
|------------------------------|-----------------------|------------------|------------------------|---------------------------|-----------------|
| Sand | gamma | 1L Marinelli | ~1.9 g/cm ³ | ⁶⁰ Co | 55 pCi/g |
| | | | | ¹³⁷ Cs | 35 pCi/g |
| | | | | ²⁴¹ Am | 82 pCi/g |
| Solid matrix | gamma | 1L Marinelli | 1.15 g/cm ³ | ⁶⁰ Co | 84 pCi/g |
| | | | | ¹³⁷ Cs | 55 pCi/g |
| | | | | ²⁴¹ Am | 127 pCi/g |
| Stainless steel-backed metal | beta | 4.1 cm dia. disk | N/A | ¹³⁷ Cs | 45,900 dpm |
| Stainless steel-backed metal | beta | 4.1 cm dia. disk | N/A | ¹³⁷ Cs | 15,500 dpm |

2.2.2.2 Daily Quality Control Counts

Quality Control (QC) counts were performed on laboratory instrumentation prior to use each day. A QC standard was used that emitted the same type of radiation (i.e., beta or gamma) in the same type of counting geometry as the radiation being measured. Count results were compared to the mean of a QC data set. The results were also graphed and reviewed for trends in detector performance. No count results fell outside the acceptable QC band and no negative trends were identified in instrument performance.

2.2.2.3 Minimum Detectable Concentration

Laboratory instruments used for removable surface radioactivity measurements were capable of detecting radiation of interest to less than 1% of the DCGL with a two minute count time. Laboratory instruments used for gamma spectral analysis measurements were capable of detecting radionuclides of interest to an MDC of less than 5% of the DCGL with a count time of 20 minutes.

2.3 SURVEY METHODS

Survey methods, as described in the following sections, were applied to collect scan and static measurements of surface and volumetric residual radioactivity, and removable surface radioactivity measurements from structural surfaces.

2.3.1 SCAN MEASUREMENTS

Scan measurements were performed to locate radiation anomalies that might indicate elevated areas of residual radioactivity that require further investigation. The level of scan coverage was proportional to the potential for finding elevated areas of residual radioactivity based on the history of the survey unit.

Where no remediation had occurred, inaccessible surfaces or difficult to measure surfaces (e.g, inside cracks or small bore penetrations) were assumed to have the same level of residual radioactivity as that found on adjacent accessible surfaces. Accessible surfaces were surveyed the same as other structure surfaces. Where remediation had occurred, an approximation of the residual radioactivity on the inaccessible surface was made and the accessible surfaces were surveyed the same as other structure surfaces except that they were included in the scan coverage area when scanning was done at less than 100% coverage (i.e., Class 2 survey unit).

2.3.1.1 Scan Coverage

Scan measurements of Class 1 survey units were performed over 100% of the surface area (see exception in Section 3.6). Scan measurements of Class 2 survey units were performed over 20 to 40% of the surface area. In Class 2 survey units, those areas with the highest potential for elevated residual radioactivity (e.g., walkways, corners, remediated surfaces), based on professional judgment, were selected for scanning. The percent of scan coverage was determined based on the number and size of the selected areas.

2.3.1.2 Surface Residual Radioactivity

Structure and plant system surfaces were scanned for beta-emitting radionuclides. Typically, the detector was held less than 2 cm from the surface and moved at 5 cm/sec over an area of one square meter. Once the selected area was scanned, the latched value was electronically entered into the data logger memory. As a matter of practice, the instrument ratemeter alarm was usually set at approximately 0.8 times DCGL. The audible alarm would alert the surveyor that radiation levels are approaching the DCGL. The surveyor would respond by identifying the size of the area exceeding the alarm setpoint, mark the location in the field, and then attempt to capture the maximum radiation level within the elevated area. An investigation was performed where the maximum radiation level exceeded the investigation level.

Normally, the Ludlum Model 43-68 GFP detector with the data logger in ratemeter latching mode was used. For areas with size or geometry constraints, the Ludlum Model 43-116-1 GFP detector or the Ludlum Model 44-9 pancake G-M detector was used.

Surfaces were not scanned for alpha-emitting radionuclides. Radiological characterization data indicated that alpha emitters were either not present or were present at activity concentrations that were insignificant in terms of dose contribution. Therefore, alpha-specific measurements of surface residual radioactivity were not performed.

2.3.1.3 Volumetric Residual Radioactivity

The exposed sub-floor sand areas in the Elevation 45' pipe façade were not scanned for gamma-emitting radionuclides due to the high sample density (0.6 m between samples).

2.3.2 STATIC MEASUREMENTS

Static measurements of surface and volumetric residual radioactivity were collected at a frequency and at representative locations throughout the survey unit such that a statistically sound conclusion regarding the radiological condition of the survey unit could be developed.

2.3.2.1 Surface Residual Radioactivity

Static measurements to detect beta-emitting surface residual radioactivity on structure and plant system surfaces were normally collected using the Ludlum Model 43-68 GFP detector with the data logger in scaler mode. For areas with access or geometry constraints, the Ludlum Model 43-116-1 GFP detector, Model 44-9 pancake G-M detector, or Model 44-116 beta scintillation detector was used. For each discrete measurement, the detector was placed on or near the surface to be measured, a one-minute count was taken, and the value was electronically entered into the data logger memory.

2.3.2.2 Volumetric Residual Radioactivity

Sand samples were collected from areas that measured approximately 30 cm x 30 cm and taken to a depth of no more than 15 cm. At each sample location, a sufficient volume of sand was

collected to fill a 1-liter Marinelli container. These samples were quantitatively analyzed onsite by gamma spectroscopy for gamma-emitting radionuclides of interest. An additional sample of 100 ml in volume was collected at each static measurement location and was quantitatively analyzed by an offsite vendor for tritium.

2.3.2.3 Number of Measurements

To simplify the final survey process and to ensure conservatism without an associated unreasonable expenditure of resources, a minimum number of 30 static measurements per survey unit were collected. This number of measurements provided a sample population of sufficient size to assure statistical confidence in the conclusions drawn from the survey data (see Section 4.1.3.3).

2.3.2.4 Measurement Locations

Measurement locations were selected using a random-start systematic spacing method based on a reference coordinate system appropriate for the survey unit. Scale drawings, maps, or photographs of the survey unit were prepared, along with an overlay of the reference coordinate system. A random number generator provided the coordinates of the starting point. Subsequent measurement locations were distributed around the starting point in a systematic pattern across the survey unit area. In some cases, this led to more than the minimum number of 30 static measurements being collected. Measurement locations that did not fall within the survey unit area or that could not be surveyed due to health and safety considerations were replaced with other measurement locations determined using the random selection process.

2.3.3 SUPPLEMENTAL MEASUREMENTS

Supplemental measurements to detect removable beta emitting surface residual radioactivity on structure and plant system surfaces were collected at static measurement locations. These measurements (i.e., smears) were collected to verify removable surface radioactivity was no more than 10% of the gross activity DCGL. Smears were counted in the laboratory using the Tennelec Model LB5100.

2.3.4 MEASUREMENT LOCATION IDENTIFICATION

Measurement locations were clearly identified and documented to ensure they could be relocated if necessary. Actual measurement locations were permanently marked in the field and on survey maps. A unique number identifies each measurement location. The number convention, described in Section 2.4.4, allows survey data to be referenced to specific measurement locations identified on the photographs, drawings, or maps of the survey unit.

Physical gridding was used where practical and useful. It provided a mechanism for referencing scan measurements to a specific location. Permanent marker was used to mark the physical grid layout. The basic grid pattern used was a one-meter square grid.

2.4 SURVEY PERFORMANCE

2.4.1 SAMPLE HANDLING

Smear samples and sand samples collected for laboratory analysis were tracked. When sample custody was transferred (e.g., when samples were sent to the lab for analysis), a sample tracking record accompanied the sample for tracking purposes. The sample tracking (or chain of custody) record documented the custody of samples from the point of collection until final results were obtained.

2.4.2 DATA INVESTIGATION

Locations, identified by scan or static measurements, with residual radioactivity that exceeded the DCGL were marked and investigated. Scan measurements were performed over 100 percent of the area being investigated. Static measurements in the form of scalar or integrated counts were performed at locations with the highest concentration of residual radioactivity. A posting plot was also generated to document the area investigated and the levels of residual radioactivity found.

Two standard operating practices were found to cause significant overestimates in the level of residual radioactivity at locations identified for investigation. These practices are: (1) using gross cpm instead of net cpm to convert to dpm, and (2) converting the area of elevated residual radioactivity to 100 cm² when the measured area was much smaller than that. For example, assuming an instrument background of 35 cpm and an efficiency of 0.10, an area with a “true” level of residual radioactivity of 5,000 dpm distributed over 15 cm² (the active area of a pancake G-M detector) yields a converted value of over 35,000 dpm/100 cm². To avoid such significant overestimates, instrument background was subtracted from measurements exceeding the investigation level and an area correction was applied to elevated areas less than 100 cm² in size.

The results of the data investigations are summarized in Table 3-2. The details of the investigations are included in survey unit summary reports (see Appendices B through G). Depending on the results of the investigation, the identified areas within the survey unit were remediated, reclassified, and/or resurveyed.

2.4.3 DATA RECORDING

Measurement data were corrected for instrument efficiency, source efficiency, detector area, and measurement size as applicable, and recorded in units appropriate for comparison to the DCGL. The recording units were dpm/100 cm². Measured numerical values were recorded and included values below the MDC. Instrument and material backgrounds were generally not subtracted from residual radioactivity measurements gathered using portable instrumentation (see exception in Section 2.4.2 above). Instrument background was subtracted from measurements analyzed using laboratory instrumentation.

Measurement results stored as final survey data constitute the final survey of record and are included in the data set for each survey unit. The data were used for calculations to determine

compliance with the site release dose criterion. The affected data were stored as characterization data where a survey unit was remediated and/or reclassified during final survey.

2.4.4 DATA MANAGEMENT

The Survey Data Management System (SDMS) was used to store and process survey data. The SDMS is an electronic database that contains the final survey data and constitutes the quality record. Administrative controls for maintaining data integrity were incorporated into the software design. SDMS applications were tested as part of two separate tests: factory acceptance testing performed by the vendor and site acceptance testing performed by the Final Survey organization. A test plan and procedure were developed and documented for each functional module. Documented test results include the acceptance test objectives, test results, test discrepancies, and corrective actions taken to resolve the discrepancies.

Raw survey data captured in the Ludlum Model 2350-1 data logger were downloaded, electronically converted to recording units, and uploaded to the SDMS. Other data, such as laboratory data, were manually entered into the SDMS for analysis.

For electronic storage and retrieval purposes, each survey measurement is identified by a unique 15-digit code. The first seven digits are the survey unit Identification (ID) code (see Section 2.1.4). The last eight digits are the measurement ID code. The first two digits of the measurement ID code identify the type of measurement, as shown in the following table, and the last six digits are the unique measurement location ID.

Measurement Type Codes

| Type Code | Type Description |
|-----------|-----------------------|
| 01 | Static surface beta |
| 04 | Removable beta smears |
| 06 | Soil/sand gamma spec |
| 08 | Surface scanning beta |
| 11 | Soil/sand tritium |

Records of survey data include the surveyor identification, measurement type, measurement location, measurement instrumentation used, measurement results, and time and date measurement was taken.

2.4.5 QUALITY CONTROL MEASUREMENTS

Quality Control (QC) measurements were performed to identify, assess, and monitor measurement error and uncertainty attributable to measurement methods or analytical procedures used in the survey data collection process. Two types of QC measurements were performed on a regular basis: QC checks and repeat measurements. A third type of QC measurement, duplicate sample analysis, was performed but is relevant only to the Elevation 45' pipe façade exposed sub-floor sand areas. Duplicate sample analysis is performed for volumetric (not surface) residual radioactivity. Where discrepancies were identified or acceptance criteria were not met,

an evaluation was performed to determine the cause and identify any necessary follow-up actions.

2.4.5.1 QC Checks

Twenty-five direct observations of survey set-up and close-out activities and scan and static measurements were performed. The observations were reviewed with the surveyors and follow-up actions such as on-the-spot correction, surveyor refresher training, changes in work process, development of good practices, and procedural corrections and improvements were taken.

2.4.5.2 QC Repeat Measurements

A set of fifteen repeat measurements was collected at each of five static measurement locations. The selected measurement locations represented a range of residual radioactivity from 5,000 to 7,000 dpm/100 cm². For each data set, the mean value was calculated and compared to the original measurement value. Measurement accuracy was deemed acceptable where the original measurement fell within $\pm 20\%$ of the mean of the repeat measurement data set. The original measurements for the measurement locations selected met the QC acceptance criterion.

2.4.5.3 Duplicate Sample Analysis

A matrix-spiked sample was analyzed and the results compared to analysis results provided by an independent laboratory. For QC purposes, matrix spiked samples were used in lieu of split samples, due to the relatively low and non-uniform levels of volumetric residual radioactivity expected in the bulk material samples. Blind soil samples containing radionuclides of interest, specifically ⁶⁰Co, ¹³⁴Cs, and ¹³⁷Cs, at environmental levels (0.1 to 1.0 pCi/g) were sent to Trojan for sample analysis by gamma spectroscopy. The analysis results were sent to the independent laboratory, who compared Trojan's analysis results to their analysis results. Measurement accuracy was deemed acceptable where Trojan's measured value fell within $\pm 20\%$ of independent laboratory's reported value. The results met the QC acceptance criterion.

2.4.6 PROCEDURES

Final survey activities were implemented and controlled using approved plant procedures. A list of those procedures is given in Table 2-3.

2.4.7 TECHNICAL BASIS DOCUMENTS

Calculations and memoranda were prepared to document methods that were used, how the methods were derived, underlying assumptions for decisions that were made, the basis for deviations, and other information that warranted documentation. The technical basis documents developed to support/conduct the final survey of the Auxiliary Building interior are listed in the following table.

Calculations

| Number | Title |
|-------------|---|
| FSC 2002-03 | Gross Activity DCGL for the Auxiliary Building |
| FSC 2002-05 | Area Factors for Use with the Auxiliary Building Gross Activity DCGL |
| FSC 2002-07 | Remediation Levels for the Auxiliary Building Gross Activity DCGL |
| FSC 2003-03 | Site Specific Scabbled Concrete Source Efficiency Factor |
| FSC 2003-07 | Survey Unit Sizing for MDC Scan Values Exceeding Auxiliary Building Gross Activity DCGL |
| FSC 2004-02 | Remediation Level for Soil |

Memoranda

| Number | Title |
|-----------|--|
| FS-017-03 | Auxiliary and Fuel Building Corridor Classification |
| FS-018-03 | Beta Surface Scans with a Pancake GM Survey Instrument |
| FS-019-03 | Scan MDC Evaluation for Auxiliary Building Survey Unit Designs |
| FS-002-04 | Application of Elevated Measurement Comparison |
| FS-009-04 | Surveying Difficult to Access Areas |

2.4.8 CONTROL OF VENDOR SUPPLIED SERVICES

Quality-related services, shown in the following table, were procured from qualified vendors whose internal Quality Assurance (QA) program was subject to approval in accordance with the Trojan QA Program.

Vendor Supplied Services

| Vendor | Service |
|-------------------------------|---|
| Ludlum Measurements, Inc. | Instrument repair and calibration services |
| Isotope Products Laboratories | NIST-traceable calibration and check sources |
| Thermo Nutech | Characterization sample analysis |
| Duke Engineering | Characterization/final survey sample analysis |
| SAIC | Characterization sample analysis |
| Analytics, Inc. | Environmental cross-check sample analysis |

2.4.9 TRAINING

Final survey data collection and technical support staff members were initially trained and qualified in procedures performed by them, and received annual refresher training thereafter. Surveyors completed scan and static survey practical training on a semi-annual basis. The following table lists the lesson modules developed and used to provide the training.

Final Survey Training Program

| Module | Title |
|---------------|------------------------------------|
| FS-S-11-LP | Final Survey Plan Overview |
| FS-S-22-LP | Survey Unit Design |
| FS-S-33-LP | Survey Instruments/Data Collection |
| FS-S-55-LP | Scan and Static Survey Practical |
| FS-S-66-LP | Survey Data Processing |
| FS-S-77-LP | SDMS Overview |
| FS-S-88-LP | Annual Refresher Training |

Table 2-1

Portable Instrumentation Radiation Detectors

| Ludlum Detector Model | 43-68 | 43-68(S) ^a | 43-116-1 | 44-9 | 44-116 |
|--|-------------------------|-----------------------------|-----------------------------|------------------------------|------------------------|
| Detector Type | GFP | | | G-M | Scintillation |
| Radiation of Interest | beta | | | beta | beta |
| Measurement Type | scan, static | | | scan, static | static |
| Detector Area | 126 cm ² | | 54 cm ² | 15 cm ² | 126 cm ² |
| Window Thickness | 0.8 mg/cm ² | | | 1.7 mg/cm ² | 1.2 mg/cm ² |
| Window Material | mylar | | | mica | mylar |
| Background (cpm) ^{b,c} | 200 to 290 | | 100 to 130 | 30 to 40 | 190 to 410 |
| Instrument Efficiency (cnts/dis) ^c | 0.38 to 0.45 | | 0.38 to 0.42 | 0.14 to 0.23 | 0.24 to 0.39 |
| Source Efficiency (cnts/dis) | 0.50 | 0.30 | | 0.50 | |
| Total Efficiency (cnts/dis) ^c | 0.19 to 0.22 | 0.11 to 0.13 | 0.19 to 0.21 | 0.07 to 0.12 | 0.12 to 0.20 |
| Count Time (min) | 1 | | | | |
| Static MDC (dpm/100 cm ²) ^c | 300 to 350 | 510 to 580 | 490 to 580 | 1,850 to 3,320 | 340 to 610 |
| Scan MDC (dpm/100 cm ²) ^{c,d} | 690 to 820 ^e | 1,180 to 1,370 ^e | 2,170 to 2,490 ^f | 5,740 to 10,780 ^g | N/A |

Notes

- ^a (S) denotes detector used with concrete scabbled surface source efficiency.
^b Background count time is 1 minute.
^c A range of values is given where multiple detectors were used.
^d Scan MDC assumes 5 cm/sec scan rate.
^e Assumes a 8.8 cm detector width for an equivalent count time of 0.03 min.
^f Assumes a 2.5 cm detector width for an equivalent count time of 0.008 min.
^g Assumes a 4.4 cm detector width for an equivalent count time of 0.015 min.

Table 2-2

Summary of Operational Survey Data

| Survey ID Code ^a | Description | Operational Survey Results ^b (dpm/100 cm ²) | | | Class | | |
|-----------------------------|---|---|----------|------------------|-------|---|---|
| | | Coverage | Total | Removable | 1 | 2 | 3 |
| Elevation 5' | | | | | | | |
| S05005B | "B" Safety Injection Pmp Rm Floor/Lower Walls | 100% | ≤ 11,000 | <1,000 | x | | |
| S05005C | "A" Safety Injection Pmp Rm Floor/Lower Walls | 100% | ≤ 5,000 | <1,000 | x | | |
| S05005D | "B" Containment Spray Pump Rm Floor & Walls | 100% | ≤420,000 | <1,000 | x | | |
| S05005E | "B" RHR Heat Exchanger Rm Floor/Lower Walls | 100% | ≤250,000 | <15,000 | x | | |
| S05005F | "B" RHR Pump Room Floor & Walls | 100% | ≤150,000 | <8,000 | x | | |
| S05005G | "A" RHR Pump Room Floor & Walls | 100% | ≤ 70,000 | <1,000 | x | | |
| S05005H | Clean Waste Receiver Tank Room Floor & Walls | 100% | ≤240,000 | <3,000 | x | | |
| S05005J | Waste Receiver & Drain Pmp Rms Floor & Walls | 100% | ≤350,000 | <4,000 | x | | |
| S05005K | Drain Tank Room Floor & Walls | 100% | ≤ 60,000 | <3,000 | x | | |
| S05005L | North Hallway Floor & Lower Walls | 100% | ≤100,000 | <1,000 | x | | |
| S05005M | Central Hallway Floor & Lower Walls | 100% | ≤ 20,000 | <1,000 | x | | |
| S05005N | "A" RHR Heat Exchanger Rm Floor/Lwr Walls | 100% | ≤200,000 | <4,000 | x | | |
| S05005P | "A" Containment Spray Pump Rm Flr/Lwr Walls | 100% | ≤ 32,000 | <1,000 | x | | |
| S05005Q | Dirty Waste Tank & Pump Rooms Floor & Walls | 100% | ≤25,000 | <20,000 | x | | |
| S05005R | Sump Floor, Walls, & Curb | 100% | ≤ 70,000 | N/A ^c | x | | |
| S05005S | NE Stairwell (to Elev. 93') | 75% | ≤ 5,000 | <1,000 | | x | |
| S05011B | "B" Safety Injection Pmp Rm Uppr Walls/Ceiling | 100% | ≤ 5,000 | <1,000 | | x | |
| S05011C | "A" Safety Injection Pmp Rm Uppr Walls/Ceiling | 100% | ≤ 5,000 | N/A ^c | | x | |
| S05011D | "B" Cont Spray Pump Rm Upper Walls/Ceiling | 100% | ≤ 5,000 | <1,000 | | x | |
| S05011L | North Hallway Upper Walls & Ceiling | 100% | ≤ 5,000 | <1,000 | | x | |
| S05011M | Central Hallway Upper Walls & Ceiling | 100% | ≤ 5,000 | <1,000 | | x | |
| S05011P | "A" Cont Spray Pump Rm Upper Walls/Ceiling | 100% | ≤ 5,000 | <1,000 | | x | |
| S05015E | "B" RHR Heat Exch Room Upper Walls/Ceiling | 100% | ≤ 5,000 | <1,000 | | x | |
| S05015Q | Dirty Waste Tank & Pump Rooms Ceiling | 100% | ≤ 5,000 | <1,000 | | x | |
| S05017A | Elev 17' East Horizontal Pipe Chase Floor/Walls | 100% | ≤ 15,000 | <1,000 | x | | |
| S05017B | Elev 17' West Horizontal Pipe Chase Floor/Walls | 100% | ≤ 35,000 | <1,000 | x | | |
| S05017C | Elev 17' to 37' Vertical Pipe Chase | 100% | ≤ 5,000 | <1,000 | | x | |
| S05023A | Elev 17' East Horizontal Pipe Chase Ceiling | 100% | ≤ 5,000 | <1,000 | | x | |
| S05023B | Elev 17' Horizontal Pipe Chase - West | 100% | ≤ 5,000 | <1,000 | | x | |
| S05023F | "B" RHR Pump Room Ceiling | 100% | ≤ 5,000 | <1,000 | | x | |
| S05023G | "A" RHR Pump Room Ceiling | 100% | ≤ 5,000 | <1,000 | | x | |
| S05023J | Waste Receiver & Drain Pump Rooms Ceiling | 100% | ≤ 5,000 | <1,000 | | x | |
| S05023K | Drain Tank Room Ceiling | 100% | ≤ 5,000 | <1,000 | | x | |
| S05023S | East RHR Vertical Pipe Chase | 100% | ≤200,000 | <20,000 | x | | |
| S05023T | West RHR Vertical Pipe Chase | 100% | ≤150,000 | <20,000 | x | | |
| S05025U | Clean Waste Receiver Tank Room Upper Walls | 100% | ≤250,000 | <3,000 | x | | |
| S05026N | "A" RHR Heat Exch Room Upper Walls/Ceiling | 100% | ≤ 5,000 | <1,000 | | x | |
| S05043U | Clean Waste Receiver Tank Room Ceiling | 100% | ≤ 5,000 | <1,000 | | x | |
| Elevation 25' | | | | | | | |
| S05025A | North Corridor Walls & Ceiling | 20% | ≤ 5,000 | <4,000 | | x | |
| S05025B | North Corridor Floor | 100% | ≤ 10,000 | <1,000 | x | | |
| S05025C | Central Hallway Walls & Ceiling | 20% | ≤ 5,000 | <1,000 | | x | |
| S05025D | Central Hallway Floor | 100% | ≤ 5,000 | <1,000 | x | | |
| S05025E | Reciprocating Charging Pump Room Floor/Walls | 100% | ≤ 65,000 | <1,000 | x | | |
| S05025F | Sodium Hydroxide Tank Room Floor & Walls | 100% | ≤100,000 | <1,000 | x | | |

Table 2-2

Summary of Operational Survey Data

| Survey ID Code ^a | Description | Operational Survey Results ^b (dpm/100 cm ²) | | | Class | | |
|------------------------------|---|---|------------------|------------------|-------|---|---|
| | | Coverage | Total | Removable | 1 | 2 | 3 |
| Elevation 25' (cont.) | | | | | | | |
| S05025G | East Valve Gallery | 100% | ≤ 10,000 | <1,000 | x | | |
| S05025H | Reactor Coolant Drain Tank Pump Room | 100% | ≤300,000 | <8,000 | x | | |
| S05025J | West Valve Gallery/BIT Rooms Floors & Walls | 100% | ≤230,000 | <1,000 | x | | |
| S05025K | South "A" CCP Room Floors & Walls | 100% | ≤ 30,000 | <1,000 | x | | |
| S05025L | North "B" CCP Room Floors & Lower Walls | 100% | ≤ 5,000 | <1,000 | x | | |
| S05025M | CWDT & Pump Rooms Floors & Lower Walls | 100% | ≤ 20,000 | <1,000 | x | | |
| S05025N | PMW Pump Room Floor & Lower Walls | 100% | ≤ 5,000 | <1,000 | x | | |
| S05031A | North "B" CCP Room Upper Walls & Ceiling | 100% | ≤ 5,000 | <1,000 | | x | |
| S05031B | CWDT & Pump Rooms Upper Walls & Ceilings | 100% | ≤ 5,000 | <1,000 | | x | |
| S05031C | PMW Pump Room Upper Walls & Ceilings | 100% | ≤ 5,000 | <1,000 | | x | |
| S05037A | Elev 37' Pipeway Floor | 100% | ≤ 20,000 | <1,000 | x | | |
| S05037B | Elev 37' Pipeway Walls & Ceiling | 100% | ≤ 5,000 | <1,000 | | x | |
| S05037C | Elev 37' (to Elev 77') Central Pipe Chase | 100% | ≤ 14,000 | <1,000 | x | | |
| S05044A | Reciprocating Charging Pump Room Ceiling | 100% | ≤ 5,000 | <1,000 | | x | |
| S05044B | Sodium Hydroxide Tank Room Ceiling | 100% | ≤ 5,000 | <1,000 | | x | |
| S05044C | East Valve Gallery/RCDT Rooms Ceiling | 100% | ≤ 5,000 | <1,000 | | x | |
| S05044D | West Valve Gallery/BIT Rooms Ceiling | 100% | ≤ 5,000 | <1,000 | x | | |
| S05044E | South "A" CCP Room Ceiling | 100% | ≤ 5,000 | <1,000 | | x | |
| Elevation 45' | | | | | | | |
| S05045A | Treated Waste Monitor Tank Room Floor/Walls | 100% | ≤ 20,000 | <30,000 | x | | |
| S05045B | SW Booster Pump Area Floor & Lower Walls | 100% | ≤ 30,000 | <1,000 | x | | |
| S05045C | CCW Pump Area Floor & Lower Walls | 100% | ≤ 5,000 | <1,000 | x | | |
| S05045D | Central Corridor Floor & Lower Walls | 100% | ≤ 5,000 | <1,000 | x | | |
| S05045E | DWM Tank/Pump Room Floor & Walls | 100% | ≤100,000 | <4,000 | x | | |
| S05045F | Radiation Sample Room Floor & Walls | 100% | ≤ 54,000 | <1,000 | x | | |
| S05045G | Pipe Facade | 100% | ≤320,000 | <40,000 | x | | |
| S05045H | Hot Lab Floor & Lower Walls | 100% | ≤ 7,000 | <1,000 | x | | |
| S05045J | West Corridor | 70% | ≤ 5,000 | <1,000 | | x | |
| S05045K | Pipe Penetration Area Valve Gallery Floor/Walls | 100% | ≤ 20,000 | <1,000 | x | | |
| S05045L | Pipe Penetration Area Floor, Walls, & Ceiling | 100% | ≤500,000 | <1,000 | x | | |
| S05051A | Treated Waste Monitor Tank Room Ceiling | 100% | ≤ 5,000 | <1,000 | | x | |
| S05051B | SW Booster/CCW Pmp Area Uppr Walls/Ceiling | 100% | ≤ 5,000 | <1,000 | | x | |
| S05051D | Central Corridor Upper Walls & Ceiling | 100% | ≤ 5,000 | <1,000 | | x | |
| S05051E | DWM Tank/Pump Room Ceiling | 100% | ≤ 5,000 | <1,000 | | x | |
| S05051F | Radiation Sample Room Ceiling | 100% | ≤ 5,000 | <1,000 | | x | |
| S05051G | Pipe Façade Upper East Wall | 100% | ≤ 5,000 | <1,000 | | x | |
| S05051H | Hot Lab Upper Walls & Ceiling | 20% | ≤ 5,000 | <1,000 | | x | |
| S05052K | Pipe Penetration Area Valve Gallery Ceiling | 100% | ≤ 5,000 | <1,000 | | x | |
| G05045L | Pipe Penetration Area Exposed Soil Areas | N/A ^d | N/A ^d | N/A ^d | x | | |
| Elevation 61' | | | | | | | |
| S05061A | North & West Corridors | 100% | ≤ 5,000 | <1,000 | | x | |
| S05061B | Valve Gallery Floor & Lower Walls | 100% | ≤ 12,000 | <1,000 | x | | |
| S05061C | Waste Gas Decay Tank Rms Floor/Lower Walls | 100% | ≤ 20,000 | <1,000 | x | | |
| S05061D | Waste Gas Surge Tnk/Radwaste Evaporator Rms | 100% | ≤ 45,000 | <5,000 | x | | |
| S05061E | Waste Gas Compressor Rms Floors/Lower Walls | 100% | ≤ 5,000 | <5,000 | x | | |

Table 2-2

Summary of Operational Survey Data

| Survey ID Code ^a | Description | Operational Survey Results ^b (dpm/100 cm ²) | | | Class | | |
|-----------------------------|--|---|---------------------|------------------|-------|---|---|
| | | Coverage | Total | Removable | 1 | 2 | 3 |
| Elevation 61' (cont.) | | | | | | | |
| S05061F | Spent Resin Storage Tank Room | 100% | ≤110,000 | <5,000 | x | | |
| S05061G | Spent Resin Storage Tank Pump Room | 100% | ≤ 83,000 | <5,000 | x | | |
| S05061H | Letdown Hx Room & Adjacent Pipeway Area | 100% | ≤ 55,000 | <15,000 | x | | |
| S05061I | Volume Control Tank Room | 100% | ≤350,000 | <5,000 | x | | |
| S05061J | Pipe Façade at RHR Pipe Chase | 100% | ≤520,000 | <8,000 | x | | |
| S05061K | Pipe Façade Stair Platform/Fuel Trnfr Tube Vault | 100% | ≤ 3.5M ^c | <10,000 | x | | |
| S05067B | Valve Gallery Upper Walls & Ceiling | 100% | ≤ 5,000 | <1,000 | | x | |
| S05067C | Waste Gas Decay Tank Rms Upper Walls/Ceiling | 100% | ≤ 5,000 | <5,000 | | x | |
| S05067E | Waste Gas Compressor Rms Upper Walls/Ceiling | 100% | ≤ 50,000 | <4,000 | | x | |
| S05070S | East RHR Vertical Pipe Chase Ceiling | 100% | ≤ 5,000 | <1,000 | | x | |
| S05070T | AB Elev 70' W RHR Vertical Pipe Chase Ceiling | 100% | ≤ 5,000 | <1,000 | | x | |
| Elevation 77' | | | | | | | |
| S05072A | West Boric Acid Evaporator Rm Flr/Lower Walls | 100% | ≤ 55,000 | <1,000 | x | | |
| S05075A | CCW Surge Tank Area Floor & Lower Walls | 100% | ≤200,000 | <1,000 | x | | |
| S05077A | Northwest Corridor Floor | 100% | ≤ 5,000 | <1,000 | x | | |
| S05077B | North Corridor Floor | 100% | ≤ 10,000 | <1,000 | x | | |
| S05077C | Corridor Walls And Ceiling | 100% | ≤ 5,000 | <1,000 | | x | |
| S05077D | West Demineralizer Valve Gallery | 100% | ≤ 75,000 | <1,000 | x | | |
| S05077E | West Demineralizer Vaults | 100% | ≤ 50,000 | <1,000 | x | | |
| S05077F | East Demin Valve Gallery/Vaults Flrs/Lwr Walls | 100% | ≤450,000 | <1,000 | x | | |
| S05077G | Horizontal Pipe Way Lower Walls And Floor | 100% | ≤ 20,000 | <1,000 | x | | |
| S05077H | West Filter Valve Gallery Floor & Lower Walls | 100% | ≤ 5,000 | N/A ^c | x | | |
| S05077J | East Filter Valve Gallery Floor and Walls | 100% | ≤ 15,000 | <1,000 | x | | |
| S05077K | Filter Pit "A" | 100% | ≤ 30,000 | <1,000 | x | | |
| S05077L | Filter Pit "B" | 100% | ≤ 5,000 | <1,000 | x | | |
| S05077M | Filter Pit "C" | 100% | ≤ 5,000 | <1,000 | x | | |
| S05077Q | Filter Pit "F" | 100% | ≤300,000 | <1,000 | x | | |
| S05077R | Filter Pit "G" | 100% | ≤ 20,000 | <1,000 | x | | |
| S05077S | Filter Pit "H" | 100% | ≤500,000 | <1,000 | x | | |
| S05077T | Filter Pit "I" | 100% | ≤460,000 | <1,000 | x | | |
| S05077U | Filter Pit "J" | 100% | N/A ^c | <1,000 | x | | |
| S05077V | Filter Pit "K" | 70% | N/A ^c | <1,000 | x | | |
| S05077W | Filter Pit "L" | 100% | N/A ^c | <1,000 | x | | |
| S05077X | Filter Pit "M" | 100% | ≤ 32,000 | <1,000 | x | | |
| S05077Y | Filter Pit "N" | 100% | ≤ 5,000 | <1,000 | x | | |
| S05077Z | Filter Pit "O" | 100% | ≤ 5,000 | <1,000 | x | | |
| S05083A | E Demin Valve Gallery/Vaults Upper Walls/Ceil | 100% | ≤ 9,000 | <1,000 | x | | |
| S05083B | Horizontal Pipe Way Upper Walls & Ceiling | 100% | ≤ 35,000 | <1,000 | x | | |
| S05083C | West Filter Valve Gallery Upper Walls & Ceiling | 100% | ≤ 5,000 | <1,000 | | x | |
| S05083D | W Boric Acid Evaporator Rm Upper Walls/Ceil | 100% | ≤ 5,000 | <1,000 | | x | |
| S05083E | CCW Surge Tank Area Upper Walls & Ceiling | 100% | ≤ 5,000 | <4,000 | | x | |
| S05089A | East Filter Valve Gallery Ceiling | 100% | ≤ 5,000 | N/A ^c | | x | |
| Elevation 93' & 104' | | | | | | | |
| S05093A | Load Center Area North Wall | 100% | ≤ 5,000 | <1,000 | | x | |
| S05093B | Containment Personnel Lock Floor/Lower Walls | 100% | ≤ 75,000 | <1,000 | x | | |

Table 2-2

Summary of Operational Survey Data

| Survey ID Code ^a | Description | Operational Survey Results ^b (dpm/100 cm ²) | | | Class | | |
|------------------------------|---|---|----------|-----------|-------|---|---|
| | | Coverage | Total | Removable | 1 | 2 | 3 |
| Elevation 93' & 104' (cont.) | | | | | | | |
| S05093C | Containment Personnel Lock Uppr Walls/Ceiling | 100% | ≤ 5,000 | <1,000 | | x | |
| S05093D | Aux/Fuel Bldg Exhaust Fan Room N Lower Wall | 100% | ≤ 8,000 | <1,000 | x | | |
| S05093E | Aux/Fuel Bldg Exhaust Fan Room | 75% | ≤ 5,000 | <1,000 | | x | |
| S05093F | Spent Fuel Pool Exhaust Fan Room | 75% | ≤ 5,000 | <1,000 | | x | |
| S05093G | Tool Area & Corridor | 95% | ≤ 5,000 | <1,000 | | x | |
| S05093H | Load Center Area (less North Wall) | 98% | ≤ 5,000 | <1,000 | | x | |
| S05093J | Containment Purge Exhaust Room Floor | 100% | ≤ 40,000 | <1,000 | x | | |
| S05093K | Containment Purge Exhaust Room | 95% | ≤ 5,000 | <1,000 | | x | |
| S05104A | Elev 104' Aux/Fuel Bldg Exh Fan Rm Walls/Ceil | 100% | ≤ 5,000 | <1,000 | | x | |
| S05104B | Elev 104' SFP Exh Fan Rm Upper Walls/Ceiling | 100% | ≤ 7,000 | <1,000 | | x | |
| S05104C | Elev 104' Aux Bldg Exhaust Fan Room Floor | 100% | ≤ 5,000 | <1,000 | | x | |
| S05104E | Elev 104' SFP Exhaust Fan Rm Flr/Lower Walls | 100% | ≤ 50,000 | <1,000 | x | | |
| S05105A | Containment Purge Exhaust Room Ceiling | 100% | ≤ 10,000 | <1,000 | x | | |
| P62032A | Auxiliary/Fuel Bldg HVAC | <5% | ≤ 23,000 | <1,000 | x | | |

Notes:

- ^a See Section 2.1.4 for description of survey ID code nomenclature.
- ^b Survey results reported to nearest 1,000 dpm/100 cm² and represent pre-remediation values.
- ^c Survey data not available as part of survey unit release record.
- ^d Survey unit composed of sand areas which were not scanned.
- ^e Value is 3,500,000 dpm/100 cm².

Table 2-3

Final Survey Procedures

| Number | Title |
|-----------|---|
| TPP 14-24 | Transfer of Turnover Units |
| TPP 16-1 | Material/Service Procurement and Control Process <i>(for purchasing final survey materials and services)</i> |
| TPP 18-4 | Trojan Nuclear Plant Quality Assurance Records Management Program <i>(for final survey quality records processing)</i> |
| TPP 18-9 | Trojan Calculations <i>(for creating technical basis documents)</i> |
| TPP 18-10 | Control of Quality-Related Computer Programs <i>(for SDMS revision validations)</i> |
| TPP 20-40 | Control of Areas Surveyed for Final Site Release |
| TPP 22-1 | Trojan Training Program <i>(for documenting final survey staff training)</i> |
| RP 95 | Ludlum M2350-1 Data Logger Calibration Procedure <i>(for data logger electronic calibrations/checks only)</i> |
| RP 159 | Conduct of Portable/Semi-Portable Radiation Protection Instrument Program <i>(for instrument tagging and calibration sticker)</i> |
| RP 450 | Final Survey Administrative and Quality Controls |
| RP 451 | Final Survey Unit Design |
| RP 452 | Final Survey Data Collection |
| RP 453 | Final Survey Data Processing |
| RP 454 | Final Survey Background Reference Areas |
| RP 455 | Final Survey Quality Control Measurements |
| RP 456 | Control & Operation of Data Logger Survey Instruments |
| RP 457 | Development and Application of Derived Concentration Guideline Levels |
| RP 458 | Final Survey Remediation Levels and ALARA Evaluations |
| RP 459 | Final Survey Instruments Calibration Program |
| RP 460 | Final Survey Data Management |
| RP 461 | Groundwater Sample Collection |
| RG 20-10 | SDMS Applications Instructions |
| CL 161 | LB5100 Planchet Counting System Calibration Procedure |
| LI 162 | LB5100 Planchet Counting System Operation |

3. FINAL SURVEY RESULTS

Final survey scan, static, and supplemental data were collected from the Auxiliary Building interior. Scan measurements were performed over approximately 13,200 m² and a total of 4,956 static measurements were collected as final survey data. Table 3-1 summarizes the final survey results. In addition, 4,897 supplemental removable surface radioactivity measurements (or smears) were collected, with results all less than 1,000 dpm/100 cm². Eighty-one data investigations were performed of 627 areas identified by scan measurements with elevated residual radioactivity. The 627 areas represent a total of approximately 13 m² of surface area with residual radioactivity above the DCGL. The results of the data investigations are summarized in Table 3-2. A detailed summary of final survey data for each survey unit is given in the survey unit summary reports in Appendices B through G. Scan measurement data are provided in the Supplement. Measurement results given in the following sections are for direct surface beta measurements, unless otherwise noted.

3.1 ELEVATION 5'

The Auxiliary Building Elevation 5', shown in Figure 3-1, comprises 20 Class 1 survey units and 18 Class 2 survey units.

For Class 1 survey units, the surface area of each survey unit ranged from 49 to 280 m². Scan measurements were performed over 100% of the surface area, with results ranging from 760 to 33,000 dpm/100 cm². Static measurements were collected from 30 to 50 locations in each survey unit, with results ranging from 430 to 6,600 dpm/100 cm². Average measured values ranged from 930 to 2,100 dpm/100 cm².

For Class 2 survey units, the surface area of each survey unit ranged from 13 to 591 m². Scan measurements were performed over 20% to 40% of the surface area, with results ranging from 780 to 6,600 dpm/100 cm². Static measurements were collected from 30 to 36 locations in each survey unit. Static measurement results ranged from 430 to 2,900 dpm/100 cm², with average measured values ranging from 610 to 1,200 dpm/100 cm².

Scan measurements were performed over 3,150 m² and identified 192 areas with elevated residual radioactivity in 21 survey units. Data investigations revealed less than 3 m² of surface area with residual radioactivity above the DCGL, and radioactivity levels up to 91,000 dpm/100 cm². No action was required in two survey units where radioactivity levels were determined to be below the DCGL. Areas in five other survey units were remediated. One area identified as elevated in a Class 2 survey unit (S05011P) was reclassified to Class 1 and added to an existing Class 1 survey unit (S05005P). The elevated measurement comparison (EMC) was applied to remaining areas with residual radioactivity above the DCGL.

3.2 ELEVATION 25'

The Auxiliary Building Elevation 25', shown in Figure 3-2, comprises 14 Class 1 survey units and 10 Class 2 survey units.

For Class 1 survey units, the surface area of each survey unit ranged from 34 to 164 m². Scan measurements were performed over 100% of the surface area, with results ranging from 550 to 28,000 dpm/100 cm². Static measurements were collected from 30 to 36 locations in each survey unit, with results ranging from 490 to 4,400 dpm/100 cm². Average measured values ranged from 880 to 2,100 dpm/100 cm².

For Class 2 survey units, the surface area of each survey unit ranged from 28 to 300 m². Scan measurements were performed over 20% to 35% of the surface area, with results ranging from 780 to 6,400 dpm/100 cm². Static measurements were collected from 30 to 35 locations in each survey unit. Static measurement results ranged from 300 to 1,600 dpm/100 cm², with average measured values ranging from 690 to 890 dpm/100 cm².

Scan measurements were performed over 1,650 m² and identified 99 areas with elevated residual radioactivity in 13 survey units. Data investigations revealed less than 4 m² of surface area with residual radioactivity above the DCGL, and radioactivity levels up to 131,000 dpm/100 cm². No action was required in four survey units where radioactivity levels were determined to be below the DCGL. Areas in four other survey units were remediated. One elevated area was identified in a Class 2 survey unit (S05044D). The survey unit was reclassified as Class 1 and resurveyed (i.e., scan coverage was increased to 100%). The EMC was applied to remaining areas with residual radioactivity above the DCGL.

3.3 ELEVATION 45'

The Auxiliary Building Elevation 45', shown in Figure 3-3, comprises 11 Class 1 survey units, including the pipe façade exposed sub-floor sand areas, and nine Class 2 survey units.

For Class 1 survey units, with the exception of the pipe façade exposed sub-floor sand areas, the surface area of each survey unit ranged from 10 to 290 m². Scan measurements were performed over 100% of the surface area, with results ranging from 390 to 31,000 dpm/100 cm². Static measurements were collected from 30 to 52 locations in each survey unit, with results ranging from 630 to 3,300 dpm/100 cm². Average measured values ranged from 1,300 to 2,100 dpm/100 cm².

For Class 2 survey units, the surface area of each survey unit ranged from 19 to 407 m². Scan measurements were performed over 20% to 35% of the surface area, with results ranging from 570 to 6,200 dpm/100 cm². Static measurements were collected from 30 to 38 locations in each survey unit. Static measurement results ranged from 400 to 2,400 dpm/100 cm², with average measured values ranging from 600 to 1,500 dpm/100 cm².

Scan measurements were performed over 2,000 m² and identified 57 areas with elevated residual radioactivity in eight survey units. Data investigations revealed less than 2 m² of surface area with residual radioactivity above the DCGL, and radioactivity levels up to 59,000 dpm/100 cm². No action was required in three survey units where radioactivity levels were determined to be below the DCGL. Areas in two other survey units were remediated. The EMC was applied to remaining areas with residual radioactivity above the DCGL.

The pipe façade exposed sub-floor sand areas form a single Class 1 survey unit (G04045L). The survey unit consists of the sand areas where sections of the floor were removed during decommissioning. The surface area was 10 m². No scan measurements were performed due to the high sample density (0.6 m between samples). Thirty static measurements were performed. Radionuclides of interest detected were ³H, ⁶⁰Co, and ¹³⁷Cs. Static measurement results ranged from 0.01 to 0.97 (unity rule applied), with a mean value of 0.08.

3.4 ELEVATION 61'

The Auxiliary Building Elevation 61', shown in Figure 3-4, comprises 10 Class 1 survey units and six Class 2 survey units.

For Class 1 survey units, the surface area of each survey unit ranged from 95 to 388 m². Scan measurements were performed over 100% of the surface area, with results ranging from 530 to 37,000 dpm/100 cm². Static measurements were collected from 30 to 68 locations in each survey unit, with results ranging from 300 to 4,800 dpm/100 cm². Average measured values ranged from 980 to 2,500 dpm/100 cm².

For Class 2 survey units, the surface area of each survey unit ranged from 10 to 772 m². Scan measurements were performed over 25% to 35% of the surface area, with results ranging from 760 to 7,200 dpm/100 cm². Static measurements were collected from 30 to 42 locations in each survey unit. Static measurement results ranged from 360 to 1,400 dpm/100 cm², with average measured values ranging from 770 to 1,100 dpm/100 cm².

Scan measurements were performed over approximately 2,500 m² and identified 81 areas with elevated residual radioactivity in eight survey units. Data investigations revealed less than 2 m² of surface area with residual radioactivity above the DCGL, and radioactivity levels up to 207,000 dpm/100 cm². No action was required in one survey unit where radioactivity levels were determined to be below the DCGL. Areas in two other survey units were remediated. The EMC was applied to remaining areas with residual radioactivity above the DCGL.

3.5 ELEVATION 77'

The Auxiliary Building Elevation 77', shown in Figure 3-5, comprises 25 Class 1 survey units and five Class 2 survey units.

For Class 1 survey units, the surface area of each survey unit ranged from 32 to 267 m². Scan measurements were performed over 100% of the surface area, with results ranging from 630 to 49,000 dpm/100 cm². Static measurements were collected from 30 to 41 locations in each survey unit, with results ranging from 420 to 5,000 dpm/100 cm². Average measured values ranged from 820 to 2,400 dpm/100 cm².

For Class 2 survey units, the surface area of each survey unit ranged from 33 to 499 m². Scan measurements were performed over 20% to 35% of the surface area, with results ranging from 730 to 6,500 dpm/100 cm². Static measurements were collected from 30 to 62 locations in each

survey unit. Static measurement results ranged from 450 to 1,900 dpm/100 cm², with average measured values ranging from 710 to 1,300 dpm/100 cm².

Scan measurements were performed over 2,700 m² and identified 176 areas with elevated residual radioactivity in 25 survey units. Data investigations revealed less than 3 m² of surface area with residual radioactivity above the DCGL, and radioactivity levels up to 75,000 dpm/100 cm². No action was required in six survey units where radioactivity levels were determined to be below the DCGL. Areas in three other survey units were remediated. The EMC was applied to remaining areas with residual radioactivity above the DCGL.

3.6 ELEVATION 93' & 104'

The Auxiliary Building Elevation 93' & 104', shown in Figure 3-6, comprises six Class 1 survey units, including the Auxiliary/Fuel Building HVAC system, and 10 Class 2 survey units.

For Class 1 survey units, with the exception of the Auxiliary/Fuel Building HVAC system, the surface area of each survey unit ranged from 20 to 135 m². Scan measurements were performed over 100% of the surface area, with results ranging from 860 to 10,000 dpm/100 cm². Static measurements were collected from 30 to 34 locations in each survey unit, with results ranging from 650 to 6,400 dpm/100 cm². Average measured values ranged from 1,000 to 2,300 dpm/100 cm².

For Class 2 survey units, the surface area of each survey unit ranged from 62 to 783 m². Scan measurements were performed over 15% to 25% of the surface area, with results ranging from 670 to 7,500 dpm/100 cm². Static measurements were collected from 30 to 44 locations in each survey unit. Static measurement results ranged from 440 to 2,700 dpm/100 cm², with average measured values ranging from 630 to 1,500 dpm/100 cm².

Scan measurements were performed over approximately 1,200 m² and identified 22 areas with elevated residual radioactivity in six survey units. Data investigations revealed less than 1 m² of surface area with residual radioactivity above the DCGL, and radioactivity levels up to 19,000 dpm/100 cm². No action was required in three survey units where radioactivity levels were determined to be below the DCGL. Areas in one other survey unit were remediated. The EMC was applied to remaining areas with residual radioactivity above the DCGL.

The Auxiliary/Fuel Building HVAC system forms a single Class 1 survey unit (P62032A). The survey unit consists of the internal surfaces of remaining ductwork and components associated with the Auxiliary/Fuel Building HVAC system. The survey unit also includes remnants of the Containment Purge Supply/Exhaust and Diesel Auxiliary Feedwater Pump Air Supply. No estimate was made of the surface area due to the large number of installed components and remaining equipment.

Scan measurements were performed over the accessible surface area at each of 30 survey locations. The exception was air supply components which received 10 to 20% scan coverage. Air supply components were exposed to ambient levels of radioactivity in the outside air, but not

to plant radioactivity that could be found in the exhaust stream. The air supply components were included in the survey unit to ensure they received some degree of survey coverage.

System flowpaths and accessibility dictated the distribution of survey locations. Scan measurement results ranged from 960 to 3,500 dpm/100 cm², with a single small area up to 8,700 dpm/100 cm². The data investigation revealed less than 0.1 m² of surface area with residual radioactivity above the DCGL. The EMC was applied and the area was left as found. A single static measurement was collected at each of the 30 survey locations. Static measurement results ranged from 560 to 3,100 dpm/100 cm², with an average measured value of 1,100 dpm/100 cm².

Table 3-1

Summary of Final Survey Results

| Survey ID Code ^a | Description | Class | | | Survey Area (m ²) ^b | | Scan Measurements (dpm/100 cm ²) | | | Static Measurements (dpm/100 cm ²) | | | | | | |
|-----------------------------|---|-------|---|---|--|--------------------|--|------------------------|-------------------------|--|------------------------|-------------------|-------------------------|--|--|--|
| | | 1 | 2 | 3 | Floor ^c | Total ^d | Coverage (%) | Low Value ^e | High Value ^e | Number | Low Value ^e | Mean ^e | High Value ^e | | | |
| Elevation 5' | | | | | | | | | | | | | | | | |
| S05005B | "B" Safety Injection Pump Room Floor & Lower Walls | x | | | 19 | 51 | 100 | 870 | 11,000 ^f | 33 | 720 | 1,400 | 2,700 | | | |
| S05005C | "A" Safety Injection Pump Room Floor & Lower Walls | x | | | 21 | 56 | 100 | 910 | 15,000 ^f | 30 | 630 | 1,300 | 2,000 | | | |
| S05005D | "B" Containment Spray Pump Room Floor & Walls | x | | | 23 | 87 | 100 | 860 | 6,600 | 42 | 630 | 1,100 | 2,200 | | | |
| S05005E | "B" RHR Heat Exchanger Room Floor & Lower Walls | x | | | 21 | 85 | 100 | 1,000 | 18,000 ^f | 31 | 760 | 1,400 | 4,700 | | | |
| S05005F | "B" RHR Pump Room Floor & Walls | x | | | 35 | 189 | 100 | 980 | 14,000 ^f | 36 | 1,100 | 1,700 | 2,500 | | | |
| S05005G | "A" RHR Pump Room Floor & Walls | x | | | 35 | 177 | 100 | 920 | 16,000 ^f | 31 | 720 | 1,200 | 2,300 | | | |
| S05005H | Clean Waste Receiver Tank Room Floor & Walls | x | | | 42 | 209 | 100 | 930 | 13,000 ^f | 40 | 480 | 1,400 | 3,000 | | | |
| S05005J | Waste Receiver & Drain Pump Rooms Floor & Walls | x | | | 41 | 280 | 100 | 880 | 14,000 ^f | 50 | 1,000 | 1,700 | 4,100 | | | |
| S05005K | Drain Tank Room Floor & Walls | x | | | 14 | 100 | 100 | 970 | 14,000 ^f | 30 | 700 | 1,100 | 2,400 | | | |
| S05005L | North Hallway Floor & Lower Walls | x | | | 45 | 119 | 100 | 1,500 | 12,000 ^f | 30 | 940 | 1,600 | 2,200 | | | |
| S05005M | Central Hallway Floor & Lower Walls | x | | | 70 | 152 | 100 | 940 | 22,000 ^f | 33 | 1,300 | 1,900 | 3,700 | | | |
| S05005N | "A" RHR Heat Exchanger Room Floor & Lower Walls | x | | | 23 | 140 | 100 | 980 | 8,100 ^f | 30 | 610 | 1,200 | 4,900 | | | |
| S05005P | "A" Containment Spray Pump Room Floor/Lower Walls | x | | | 23 | 77 | 100 | 870 | 33,000 ^f | 42 | 730 | 1,300 | 3,200 | | | |
| S05005Q | Dirty Waste Tank & Pump Rooms Floor & Walls | x | | | 33 | 214 | 100 | 1,200 | 17,000 ^f | 38 | 1,200 | 1,700 | 2,800 | | | |
| S05005R | Sump Floor, Walls, & Curb | x | | | 8 | 49 | 100 | 1,600 | 9,400 ^f | 30 | 1,700 | 2,100 | 3,000 | | | |
| S05005S | NE Stairwell (to Elev. 93') | | x | | 63 | 591 | 20 | 850 | 2,100 | 30 | 650 | 1,000 | 1,300 | | | |
| S05011B | "B" Safety Injection Pump Room Upper Walls/Ceiling | | x | | 0 | 87 | 35 | 790 | 1,500 | 33 | 470 | 770 | 970 | | | |
| S05011C | "A" Safety Injection Pump Room Upper Walls/Ceiling | | x | | 0 | 91 | 35 | 950 | 6,600 | 30 | 620 | 810 | 940 | | | |
| S05011D | "B" Containment Spray Pump Room Upper Walls/Ceiling | | x | | 0 | 79 | 35 | 870 | 6,100 | 34 | 520 | 750 | 1,300 | | | |
| S05011L | North Hallway Upper Walls & Ceiling | | x | | 0 | 185 | 35 | 830 | 1,400 | 30 | 650 | 790 | 920 | | | |
| S05011M | Central Hallway Upper Walls & Ceiling | | x | | 0 | 101 | 35 | 920 | 1,400 | 30 | 690 | 790 | 1,000 | | | |
| S05011P | "A" Containment Spray Pump Room Upper Walls/Ceiling | | x | | 0 | 78 | 35 | 850 | 1,500 | 30 | 570 | 810 | 1,300 | | | |
| S05015E | "B" RHR Heat Exchanger Room Upper Walls/Ceiling | | x | | 0 | 149 | 35 | 930 | 1,500 | 30 | 680 | 890 | 1,300 | | | |
| S05015Q | Dirty Waste Tank & Pump Rooms Ceiling | | x | | 0 | 40 | 35 | 780 | 1,200 | 30 | 500 | 760 | 920 | | | |
| S05017A | Elev 17' East Horizontal Pipe Chase Floor & Walls | x | | | 43 | 78 | 100 | 810 | 6,600 | 30 | 690 | 1,600 | 2,400 | | | |
| S05017B | Elev 17' West Horizontal Pipe Chase Floor & Walls | x | | | 43 | 77 | 100 | 770 | 32,000 ^f | 30 | 430 | 1,700 | 6,600 | | | |
| S05017C | Elev 17' to 37' Vertical Pipe Chase | | x | | 0 | 13 | 40 | 1,200 | 1,500 | 36 | 940 | 1,200 | 1,400 | | | |
| S05023A | Elev 17' East Horizontal Pipe Chase Ceiling | | x | | 0 | 41 | 35 | 900 | 1,500 | 30 | 670 | 810 | 900 | | | |

Table 3-1

Summary of Final Survey Results

| Survey ID Code ^a | Description | Class | | | Survey Area (m ²) ^b | | Scan Measurements (dpm/100 cm ²) | | | Static Measurements (dpm/100 cm ²) | | | |
|-----------------------------|---|-------|---|---|--|--------------------|--|------------------------|-------------------------|--|------------------------|-------------------|-------------------------|
| | | 1 | 2 | 3 | Floor ^c | Total ^d | Coverage (%) | Low Value ^e | High Value ^e | Number | Low Value ^e | Mean ^e | High Value ^e |
| Elevation 5' (cont.) | | | | | | | | | | | | | |
| S05023B | Elev 17' Horizontal Pipe Chase - West | | x | | 0 | 40 | 35 | 950 | 1,500 | 30 | 680 | 800 | 940 |
| S05023F | "B" RHR Pump Room Ceiling | | x | | 0 | 26 | 35 | 950 | 1,400 | 30 | 610 | 820 | 1,100 |
| S05023G | "A" RHR Pump Room Ceiling | | x | | 0 | 28 | 35 | 870 | 1,100 | 30 | 470 | 710 | 1,700 |
| S05023J | Waste Receiver & Drain Pump Rooms Ceiling | | x | | 0 | 51 | 35 | 850 | 1,500 | 32 | 430 | 610 | 810 |
| S05023K | Drain Tank Room Ceiling | | x | | 0 | 13 | 35 | 1,200 | 5,900 | 30 | 540 | 1,100 | 2,900 |
| S05023S | East RHR Vertical Pipe Chase | x | | | 0 | 139 | 100 | 1,000 | 21,000 | 36 | 670 | 1,200 | 3,300 |
| S05023T | West RHR Vertical Pipe Chase | x | | | 0 | 150 | 100 | 940 | 15,000 | 33 | 600 | 930 | 2,000 |
| S05025U | Clean Waste Receiver Tank Room Upper Walls | x | | | 12 | 194 | 100 | 980 | 26,000 | 34 | 1,200 | 1,700 | 2,500 |
| S05026N | "A" RHR Heat Exchanger Room Upper Walls/Ceiling | | x | | 0 | 104 | 35 | 870 | 2,600 | 30 | 670 | 880 | 2,900 |
| S05043U | Clean Waste Receiver Tank Room Ceiling | | x | | 0 | 43 | 35 | 1,300 | 5,100 | 32 | 750 | 950 | 1,100 |
| Elevation 25' | | | | | | | | | | | | | |
| S05025A | North Corridor Walls & Ceiling | | x | | 0 | 300 | 20 | 930 | 6,400 | 30 | 560 | 820 | 1,200 |
| S05025B | North Corridor Floor | x | | | 62 | 62 | 100 | 790 | 21,000 | 36 | 1,300 | 1,800 | 2,200 |
| S05025C | Central Hallway Walls & Ceiling | | x | | 0 | 143 | 20 | 940 | 3,500 | 30 | 730 | 830 | 950 |
| S05025D | Central Hallway Floor | x | | | 47 | 47 | 100 | 2,300 | 7,400 | 30 | 1,800 | 2,100 | 2,400 |
| S05025E | Reciprocating Charging Pump Room Floor/Walls | x | | | 25 | 164 | 100 | 690 | 28,000 | 30 | 630 | 1,200 | 2,800 |
| S05025F | Sodium Hydroxide Tank Room Floor & Walls | x | | | 25 | 134 | 100 | 740 | 7,200 | 30 | 730 | 1,200 | 2,400 |
| S05025G | East Valve Gallery | x | | | 17 | 107 | 100 | 820 | 13,000 | 32 | 490 | 1,100 | 2,500 |
| S05025H | Reactor Coolant Drain Tank Pump Room | x | | | 14 | 110 | 100 | 950 | 12,000 | 30 | 670 | 1,500 | 2,900 |
| S05025J | West Valve Gallery/BIT Rooms Floors & Walls | x | | | 26 | 162 | 100 | 940 | 18,000 | 36 | 660 | 1,600 | 4,400 |
| S05025K | South "A" CCP Room Floors & Walls | x | | | 33 | 155 | 100 | 550 | 7,500 | 31 | 670 | 1,100 | 2,300 |
| S05025L | North "B" CCP Room Floors & Lower Walls | x | | | 30 | 65 | 100 | 850 | 20,000 | 36 | 740 | 1,300 | 2,400 |
| S05025M | CWDT & Pump Rooms Floors & Lower Walls | x | | | 34 | 94 | 100 | 850 | 14,000 | 34 | 700 | 1,200 | 2,300 |
| S05025N | PMW Pump Room Floor & Lower Walls | x | | | 14 | 48 | 100 | 880 | 7,500 | 30 | 710 | 1,200 | 2,200 |
| S05031A | North "B" CCP Room Upper Walls & Ceiling | | x | | 0 | 118 | 35 | 780 | 1,300 | 30 | 560 | 750 | 960 |
| S05031B | CWDT & Pump Rooms Upper Walls & Ceilings | | x | | 0 | 164 | 35 | 880 | 4,100 | 32 | 510 | 780 | 1,600 |
| S05031C | PMW Pump Room Upper Walls & Ceilings | | x | | 0 | 51 | 35 | 890 | 3,800 | 30 | 600 | 770 | 1,100 |
| S05037A | Elev 37' Pipeway Floor | x | | | 83 | 83 | 100 | 2,200 | 7,100 | 31 | 1,800 | 2,100 | 2,500 |

Table 3-1

Summary of Final Survey Results

| Survey ID Code ^a | Description | Class | | | Survey Area (m ²) ^b | | Scan Measurements (dpm/100 cm ²) | | | Static Measurements (dpm/100 cm ²) | | | |
|-----------------------------|---|-------|---|---|--|--------------------|--|------------------------|-------------------------|--|------------------------|-------------------|-------------------------|
| | | 1 | 2 | 3 | Floor ^c | Total ^d | Coverage (%) | Low Value ^e | High Value ^e | Number | Low Value ^e | Mean ^e | High Value ^e |
| Elevation 25' (cont.) | | | | | | | | | | | | | |
| S05037B | Elev 37' Pipeway Walls & Ceiling | | x | | 0 | 101 | 35 | 930 | 5,600 | 35 | 300 | 690 | 950 |
| S05037C | Elev 37' (to Elev 77) Central Pipe Chase | x | | | 0 | 103 | 100 | 710 | 16,000 ^f | 36 | 580 | 880 | 1,900 |
| S05044A | Reciprocating Charging Pump Room Ceiling | | x | | 0 | 28 | 35 | 1,100 | 1,300 | 30 | 690 | 890 | 1,200 |
| S05044B | Sodium Hydroxide Tank Room Ceiling | | x | | 0 | 34 | 35 | 1,100 | 1,400 | 30 | 520 | 770 | 1,000 |
| S05044C | East Valve Gallery/RCDT Rooms Ceiling | | x | | 0 | 30 | 35 | 1,200 | 1,500 | 30 | 570 | 820 | 1,300 |
| S05044D | West Valve Gallery/BIT Rooms Ceiling | x | | | 0 | 34 | 100 | 950 | 13,000 ^f | 32 | 790 | 990 | 1,200 |
| S05044E | South "A" CCP Room Ceiling | | x | | 0 | 43 | 35 | 1,000 | 1,400 | 33 | 630 | 860 | 1,100 |
| Elevation 45' | | | | | | | | | | | | | |
| S05045A | Treated Waste Monitor Tank Room Floor/Walls | x | | | 91 | 247 | 100 | 930 | 12,000 ^f | 42 | 1,100 | 1,600 | 2,300 |
| S05045B | SW Booster Pump Area Floor & Lower Walls | x | | | 125 | 275 | 100 | 390 | 9,000 ^f | 45 | 810 | 1,600 | 3,300 |
| S05045C | CCW Pump Area Floor & Lower Walls | x | | | 63 | 98 | 100 | 650 | 6,000 | 46 | 700 | 1,800 | 2,800 |
| S05045D | Central Corridor Floor & Lower Walls | x | | | 67 | 123 | 100 | 1,500 | 12,000 ^f | 33 | 1,100 | 1,600 | 2,200 |
| S05045E | DWM Tank/Pump Room Floor & Walls | x | | | 36 | 187 | 100 | 770 | 7,000 | 30 | 630 | 1,300 | 3,000 |
| S05045F | Radiological Sample Room Floor & Walls | x | | | 31 | 136 | 100 | 870 | 6,400 | 34 | 1,300 | 1,800 | 2,300 |
| S05045G | Pipe Facade | x | | | 75 | 290 | 100 | 760 | 14,000 ^f | 52 | 1,100 | 1,800 | 3,300 |
| S05045H | Hot Lab Floor & Lower Walls | x | | | 49 | 115 | 100 | 900 | 5,500 | 30 | 1,200 | 1,700 | 2,400 |
| S05045J | West Corridor | | x | | 63 | 407 | 20 | 890 | 6,200 | 36 | 900 | 1,500 | 2,400 |
| S05045K | Pipe Penetration Area Valve Gallery Floor & Walls | x | | | 17 | 64 | 100 | 1,700 | 6,400 | 33 | 1,200 | 1,600 | 2,400 |
| S05045L | Pipe Penetration Area Floor, Walls, & Ceiling | x | | | 26 | 201 | 100 | 1,000 | 31,000 ^f | 35 | 1,300 | 2,100 | 7,200 |
| S05051A | Treated Waste Monitor Tank Room Ceiling | | x | | 0 | 93 | 20 | 990 | 6,000 | 31 | 610 | 870 | 1,000 |
| S05051B | SW Booster/CCW Pumps Area Upper Walls/Ceiling | | x | | 0 | 353 | 25 | 630 | 5,700 | 33 | 460 | 910 | 1,400 |
| S05051D | Central Corridor Upper Walls & Ceiling | | x | | 0 | 145 | 25 | 950 | 4,700 | 33 | 510 | 950 | 1,500 |
| S05051E | DWM Tank/Pump Room Ceiling | | x | | 0 | 38 | 20 | 570 | 1,100 | 38 | 400 | 690 | 920 |
| S05051F | Radiological Sample Room Ceiling | | x | | 0 | 32 | 20 | 900 | 1,100 | 30 | 650 | 790 | 980 |
| S05051G | Pipe Façade Upper East Wall | | x | | 0 | 31 | 35 | 1,000 | 1,300 | 36 | 710 | 870 | 1,100 |
| S05051H | Hot Lab Upper Walls & Ceiling | | x | | 0 | 132 | 25 | 970 | 5,500 | 30 | 640 | 890 | 1,300 |
| S05052K | Pipe Penetration Area Valve Gallery Ceiling | | x | | 0 | 19 | 35 | 760 | 1,000 | 30 | 490 | 600 | 700 |
| G05045L | Pipe Penetration Area Exposed Soil Areas | x | | | 10 | 10 | N/A ^g | N/A | N/A | 30 | 0.01 ^h | 0.08 ^h | 0.97 ^h |

Table 3-1

Summary of Final Survey Results

| Survey ID Code ^a | Description | Class | | | Survey Area (m ²) ^b | | Scan Measurements (dpm/100 cm ²) | | | Static Measurements (dpm/100 cm ²) | | | | |
|-----------------------------|---|-------|---|---|--|--------------------|--|------------------------|-------------------------|--|------------------------|-------------------|-------------------------|--|
| | | 1 | 2 | 3 | Floor ^c | Total ^d | Coverage (%) | Low Value ^e | High Value ^e | Number | Low Value ^e | Mean ^e | High Value ^e | |
| Elevation 61' | | | | | | | | | | | | | | |
| S05061A | North & West Corridors | | x | | 123 | 772 | 25 | 810 | 5,000 | 39 | 520 | 1,100 | 1,400 | |
| S05061B | Valve Gallery Floor & Lower Walls | x | | | 44 | 123 | 100 | 770 | 6,800 | 32 | 300 | 1,100 | 2,400 | |
| S05061C | Waste Gas Decay Tank Rooms Floor/Lower Walls | x | | | 97 | 254 | 100 | 900 | 37,000 | 42 | 620 | 1,300 | 2,300 | |
| S05061D | Waste Gas Surge Tank/Radwaste Evaporator Rooms | x | | | 68 | 388 | 100 | 760 | 17,000 | 55 | 430 | 980 | 2,200 | |
| S05061E | Waste Gas Compressor Rooms Floors/Lower Walls | x | | | 41 | 121 | 100 | 940 | 7,300 | 32 | 700 | 1,400 | 2,500 | |
| S05061F | Spent Resin Storage Tank Room | x | | | 23 | 95 | 100 | 530 | 7,400 | 32 | 780 | 1,800 | 2,500 | |
| S05061G | Spent Resin Storage Tank Pump Room | x | | | 14 | 102 | 100 | 910 | 12,000 | 30 | 1,000 | 2,500 | 4,600 | |
| S05061H | Letdown Hx Room & Adjacent Pipeway Area | x | | | 60 | 345 | 100 | 730 | 15,000 | 65 | 430 | 1,100 | 3,300 | |
| S05061I | Volume Control Tank Room | x | | | 17 | 101 | 100 | 940 | 10,000 | 30 | 1,200 | 1,700 | 2,600 | |
| S05061J | Pipe Façade at RHR Pipe Chase | x | | | 38 | 387 | 100 | 790 | 25,000 | 68 | 550 | 1,400 | 4,800 | |
| S05061K | Pipe Façade Stair Platform/Fuel Transfer Tube Vault | x | | | 34 | 220 | 100 | 990 | 12,000 | 40 | 1,000 | 1,700 | 2,600 | |
| S05067B | Valve Gallery Upper Walls & Ceiling | | x | | 0 | 140 | 30 | 820 | 3,300 | 31 | 360 | 770 | 1,000 | |
| S05067C | Waste Gas Decay Tank Rooms Upper Walls/Ceiling | | x | | 0 | 258 | 30 | 760 | 1,600 | 42 | 610 | 770 | 900 | |
| S05067E | Waste Gas Compressor Rooms Upper Walls/Ceiling | | x | | 0 | 132 | 30 | 880 | 7,200 | 34 | 710 | 870 | 1,000 | |
| S05070S | East RHR Vertical Pipe Chase Ceiling | | x | | 0 | 10 | 35 | 1,100 | 1,400 | 35 | 760 | 880 | 1,000 | |
| S05070T | AB Elev 70' West RHR Vertical Pipe Chase Ceiling | | x | | 0 | 17 | 35 | 1,000 | 1,100 | 30 | 580 | 780 | 980 | |
| Elevation 77' | | | | | | | | | | | | | | |
| S05072A | West Boric Acid Evaporator Room Floor/Lower Walls | x | | | 81 | 267 | 100 | 730 | 10,000 | 33 | 440 | 1,200 | 2,400 | |
| S05075A | CCW Surge Tank Area Floor & Lower Walls | x | | | 67 | 219 | 100 | 800 | 17,000 | 30 | 620 | 1,400 | 2,200 | |
| S05077A | Northwest Corridor Floor | x | | | 32 | 32 | 100 | 2,600 | 13,000 | 41 | 2,200 | 2,400 | 2,800 | |
| S05077B | North Corridor Floor | x | | | 97 | 109 | 100 | 1,700 | 21,000 | 38 | 960 | 2,100 | 3,600 | |
| S05077C | Corridor Walls And Ceiling | | x | | 0 | 499 | 20 | 830 | 2,900 | 30 | 600 | 1,000 | 1,400 | |
| S05077D | West Demineralizer Valve Gallery | x | | | 16 | 157 | 100 | 850 | 6,400 | 34 | 1,200 | 1,800 | 3,900 | |
| S05077E | West Demineralizer Vaults | x | | | 26 | 195 | 100 | 930 | 7,000 | 30 | 1,200 | 1,600 | 2,300 | |
| S05077F | East Demin Valve Gallery/Vaults Floors/Lower Walls | x | | | 62 | 164 | 100 | 630 | 12,000 | 37 | 1,200 | 1,700 | 2,400 | |
| S05077G | Horizontal Pipe Way Lower Walls And Floor | x | | | 49 | 167 | 100 | 830 | 7,300 | 40 | 1,100 | 1,600 | 2,500 | |
| S05077H | West Filter Valve Gallery Floor & Lower Walls | x | | | 51 | 112 | 100 | 850 | 11,000 | 41 | 1,500 | 1,900 | 2,700 | |
| S05077J | East Filter Valve Gallery Floor and Walls | x | | | 38 | 156 | 100 | 880 | 24,000 | 30 | 1,100 | 1,500 | 2,000 | |

Table 3-1

Summary of Final Survey Results

| Survey ID Code ^a | Description | Class | | | Survey Area (m ²) ^b | | Scan Measurements (dpm/100 cm ²) | | | Static Measurements (dpm/100 cm ²) | | | |
|---------------------------------|---|-------|---|---|--|--------------------|--|------------------------|-------------------------|--|------------------------|-------------------|-------------------------|
| | | 1 | 2 | 3 | Floor ^c | Total ^d | Coverage (%) | Low Value ^e | High Value ^e | Number | Low Value ^e | Mean ^e | High Value ^e |
| Elevation 77' (cont.) | | | | | | | | | | | | | |
| S05077K | Filter Pit "A" | x | | | 3 | 36 | 100 | 1,100 | 17,000' | 35 | 420 | 1,500 | 3,300 |
| S05077L | Filter Pit "B" | x | | | 3 | 36 | 100 | 830 | 24,000' | 34 | 740 | 1,600 | 2,400 |
| S05077M | Filter Pit "C" | x | | | 3 | 36 | 100 | 930 | 14,000' | 31 | 690 | 1,400 | 2,400 |
| S05077Q | Filter Pit "F" | x | | | 3 | 36 | 100 | 970 | 49,000' | 33 | 690 | 1,400 | 2,500 |
| S05077R | Filter Pit "G" | x | | | 3 | 36 | 100 | 1,100 | 6,900' | 34 | 610 | 1,500 | 2,800 |
| S05077S | Filter Pit "H" | x | | | 3 | 36 | 100 | 1,100 | 46,000' | 30 | 740 | 1,500 | 2,800 |
| S05077T | Filter Pit "I" | x | | | 3 | 36 | 100 | 970 | 16,000' | 35 | 790 | 1,600 | 2,900 |
| S05077U | Filter Pit "J" | x | | | 3 | 36 | 100 | 1,000 | 8,500' | 31 | 710 | 1,300 | 2,100 |
| S05077V | Filter Pit "K" | x | | | 3 | 36 | 100 | 890 | 7,200' | 33 | 670 | 1,500 | 5,000 |
| S05077W | Filter Pit "L" | x | | | 3 | 36 | 100 | 1,100 | 18,000' | 33 | 1,200 | 1,900 | 3,100 |
| S05077X | Filter Pit "M" | x | | | 3 | 36 | 100 | 1,500 | 5,600' | 34 | 970 | 1,500 | 2,400 |
| S05077Y | Filter Pit "N" | x | | | 3 | 36 | 100 | 1,100 | 8,600' | 40 | 1,400 | 2,300 | 5,100 |
| S05077Z | Filter Pit "O" | x | | | 3 | 36 | 100 | 1,600 | 23,000' | 31 | 1,100 | 2,000 | 2,900 |
| S05083A | East Demin Valve Gallery/Vaults Upper Walls/Ceiling | x | | | 0 | 197 | 100 | 830 | 7,300' | 33 | 650 | 920 | 2,000 |
| S05083B | Horizontal Pipe Way Upper Walls & Ceiling | x | | | 0 | 212 | 100 | 760 | 19,000' | 40 | 460 | 820 | 1,700 |
| S05083C | West Filter Valve Gallery Upper Walls & Ceiling | | x | | 0 | 125 | 30 | 1,500 | 5,100' | 37 | 920 | 1,300 | 1,900 |
| S05083D | West Boric Acid Evaporator Room Upper Walls/Ceiling | | x | | 0 | 184 | 25 | 890 | 3,000' | 35 | 630 | 820 | 1,300 |
| S05083E | CCW Surge Tank Area Upper Walls & Ceiling | | x | | 0 | 237 | 35 | 730 | 6,500' | 30 | 620 | 1,000 | 1,300 |
| S05089A | East Filter Valve Gallery Ceiling | | x | | 0 | 33 | 30 | 760 | 2,300' | 62 | 450 | 710 | 1,100 |
| Elevation 93' & 104' | | | | | | | | | | | | | |
| S05093A | Load Center Area North Wall | | x | | 0 | 62 | 15 | 840 | 990' | 44 | 440 | 630 | 760 |
| S05093B | Containment Personnel Lock Floor & Lower Walls | x | | | 47 | 118 | 100 | 860 | 10,000' | 32 | 650 | 1,000 | 1,500 |
| S05093C | Containment Personnel Lock Upper Walls/Ceiling | | x | | 33 | 323 | 15 | 1,100 | 7,400' | 30 | 840 | 1,200 | 1,600 |
| S05093D | Aux/Fuel Bldg Exhaust Fan Room N Lower Wall | x | | | 0 | 20 | 100 | 1,100 | 2,100' | 34 | 840 | 1,000 | 1,200 |
| S05093E | Aux/Fuel Bldg Exhaust Fan Room | | x | | 129 | 404 | 25 | 1,000 | 2,900' | 30 | 720 | 980 | 1,200 |
| S05093F | Spent Fuel Pool Exhaust Fan Room | | x | | 71 | 266 | 25 | 1,000 | 3,300' | 30 | 640 | 1,500 | 2,500 |
| S05093G | Tool Area & Corridor | | x | | 186 | 783 | 20 | 670 | 5,900' | 30 | 530 | 1,000 | 1,400 |
| S05093H | Load Center Area (less North Wall) | | x | | 198 | 730 | 20 | 880 | 7,400' | 31 | 510 | 1,400 | 2,700 |

Table 3-1

Summary of Final Survey Results

| Survey ID Code ^a | Description | Class | | | Survey Area (m ²) ^b | | Scan Measurements (dpm/100 cm ²) | | | Static Measurements (dpm/100 cm ²) | | | | | | |
|------------------------------|--|-------|---|---|--|--------------------|--|------------------------|-------------------------|--|------------------------|-------------------|-------------------------|--|--|--|
| | | 1 | 2 | 3 | Floor ^c | Total ^d | Coverage (%) | Low Value ^e | High Value ^e | Number | Low Value ^e | Mean ^e | High Value ^e | | | |
| Elevation 93' & 104' (cont.) | | | | | | | | | | | | | | | | |
| S05093J | Containment Purge Exhaust Room Floor | x | | | 71 | 71 | 100 | 2,000 | 8,700 ^f | 30 | 1,600 | 2,300 | 6,400 | | | |
| S05093K | Containment Purge Exhaust Room | | x | | 117 | 601 | 20 | 740 | 7,500 | 35 | 590 | 1,100 | 1,500 | | | |
| S05104A | Elev 104' Aux/Fuel Bldg Exhaust Fan Rm Walls/Ceiling | | x | | 0 | 364 | 20 | 820 | 1,300 | 35 | 550 | 820 | 1,100 | | | |
| S05104B | Elev 104' SFP Exhaust Fan Room Upper Walls & Ceiling | | x | | 0 | 145 | 20 | 810 | 1,300 | 32 | 650 | 820 | 1,000 | | | |
| S05104C | Elev 104' Aux Bldg Exhaust Fan Room Floor | | x | | 128 | 128 | 25 | 1,300 | 1,900 | 30 | 900 | 1,200 | 1,500 | | | |
| S05104E | Elev 104' SFP Exhaust Fan Room Floor & Lower Walls | x | | | 68 | 135 | 100 | 940 | 5,500 | 34 | 810 | 1,100 | 1,500 | | | |
| S05105A | Containment Purge Exhaust Room Ceiling | x | | | 0 | 49 | 100 | 1,100 | 5,200 | 32 | 920 | 1,100 | 1,300 | | | |
| P62032A | Auxiliary/Fuel Bldg HVAC | x | | | 0 | N/A ^g | N/A ^g | 960 | 8,700 ^f | 30 | 560 | 1,100 | 3,100 | | | |

Notes:

- ^a See Section 2.1.4 for description of survey ID code nomenclature.
- ^b Where survey unit consists of walls or ceilings only, survey unit was sized so as to preserve dose modeling assumptions.
- ^c Includes floor surface area only.
- ^d Includes floor and other surfaces in survey unit.
- ^e Survey results reported to two significant figures.
- ^f Data investigation performed and EMC applied.
- ^g No scan measurements performed though high sample density equates to effective scan coverage of 100% based on exposure modeling.
- ^h Measurement values given in dimensionless fractions (unity rule application).
- ⁱ No estimate made of surface area due to large number of installed components, ductwork, and equipment remaining.
- ^j Survey design (i.e., scan coverage, number and type of measurements) based on process flow paths and access points.

Table 3-2

Summary of Data Investigation Results and Actions Taken

| Survey Unit | Class | Identified Locations | | Area > DCGL (m ²) ^a | Action(s) Taken ^b | Maximum Value (dpm/100 cm ²) ^c | |
|----------------------|----------------|----------------------|--------|--|----------------------------------|---|---------------------|
| | | Scan | Static | | | Before | After |
| Elevation 5' | | | | | | | |
| S05005B | 1 | 6 | 0 | 0.19 | apply EMC | 11,000 | 11,000 |
| S05005C | 1 | 3 | 0 | 0.01 | “ “ | 15,000 | 15,000 |
| S05005D | 1 | 3 | 0 | N/A | none | 11,000 ^d | 7,000 |
| S05005E | 1 | 12 | 0 | 0.20 | apply EMC | 18,000 | 18,000 |
| S05005F | 1 | 15 | 0 | 0.34 | remediate/apply EMC | 32,000 | 14,000 |
| S05005G | 1 | 12 | 0 | 0.07 | apply EMC | 25,000 ^d | 16,000 |
| S05005H | 1 | 14 | 0 | 0.06 | “ “ | 22,000 ^d | 13,000 |
| S05005J | 1 | 23 | 0 | 0.52 | remediate/apply EMC | 91,000 | 14,000 |
| S05005K | 1 | 5 | 0 | 0.01 | apply EMC | 14,000 | 14,000 |
| S05005L | 1 | 2 | 0 | 0.04 | “ “ | 12,000 ^d | 12,000 ^d |
| S05005M | 1 | 3 | 0 | 0.04 | “ “ | 22,000 ^d | 22,000 ^d |
| S05005N | 1 | 11 | 0 | 0.09 | “ “ | 40,000 ^d | 8,000 |
| S05005P | 1 | 3 | 0 | 0.05 | “ “ | 33,000 ^d | 33,000 ^d |
| S05005Q | 1 | 37 | 0 | 0.55 | remediate/apply EMC | 46,000 ^d | 17,000 |
| S05005R | 1 | 7 | 0 | 0.02 | “ “ | 19,000 ^d | 9,000 |
| S05011P | 2 | 1 | 0 | 0.02 | reclassify ^e | 9,000 ^d | N/A |
| S05017A | 1 | 1 | 0 | N/A | none | 9,000 ^d | 7,000 |
| S05017B | 1 | 1 | 0 | 0.02 | apply EMC | 32,000 | 32,000 |
| S05023S | 1 | 12 | 0 | 0.33 | “ “ | 24,000 ^d | 21,000 |
| S05023T | 1 | 15 | 0 | 0.18 | “ “ | 17,000 ^d | 15,000 |
| S05025U | 1 | 6 | 0 | 0.07 | remediate/apply EMC | 26,000 ^d | 26,000 ^d |
| Elevation 25' | | | | | | | |
| S05025B | 1 | 7 | 0 | 0.37 | apply EMC | 21,000 ^d | 21,000 ^d |
| S05025D | 1 | 4 | 0 | N/A | none | 22,000 ^d | 7,000 |
| S05025E | 1 | 15 | 0 | 0.95 | remediate/apply EMC | 34,000 ^d | 28,000 |
| S05025F | 1 | 2 | 0 | N/A | none | 8,000 ^d | 7,000 |
| S05025G | 1 | 2 | 0 | 0.05 | apply EMC | 13,000 | 13,000 |
| S05025H | 1 | 10 | 0 | 0.14 | remediate/apply EMC | 43,000 | 12,000 |
| S05025J | 1 | 44 | 0 | 2.1 ^f | “ / “ “ | 131,000 ^d | 18,000 |
| S05025K | 1 | 4 | 0 | N/A | none | 9,000 ^d | 7,000 |
| S05025L | 1 | 2 | 0 | 0.02 | apply EMC | 20,000 ^d | 20,000 ^d |
| S05025M | 1 | 4 | 0 | 0.11 | “ “ | 14,000 | 14,000 |
| S05037B | 2 | 1 | 0 | N/A | none | 8,000 ^d | 6,000 |
| S05037C | 1 | 3 | 0 | 0.03 | remediate/apply EMC | 45,000 ^d | 16,000 |
| S05044D | 1 ^f | 1 | 0 | 0.02 | reclassify/resurvey ^g | 13,000 ^d | 13,000 |

Table 3-2

Summary of Data Investigation Results and Actions Taken

| Survey Unit | Class | Identified Locations | | Area > DCGL (m ²) ^a | Action(s) Taken ^b | Maximum Value (dpm/100 cm ²) ^c | |
|---------------|-------|----------------------|--------|--|------------------------------|---|---------------------|
| | | Scan | Static | | | Before | After |
| Elevation 45' | | | | | | | |
| S05045A | 1 | 2 | 0 | 0.02 | apply EMC | 14,000 ^d | 12,000 |
| S05045B | 1 | 4 | 0 | 0.05 | “ “ | 17,000 ^d | 9,000 |
| S05045C | 1 | 3 | 0 | N/A | none | 18,000 ^d | 6,000 |
| S05045D | 1 | 1 | 0 | <0.01 | apply EMC | 12,000 ^d | 12,000 ^d |
| S05045E | 1 | 3 | 0 | N/A | none | 33,000 ^d | 7,000 |
| S05045G | 1 | 17 | 0 | 0.51 | remediate/apply EMC | 34,000 ^d | 14,000 |
| S05045K | 1 | 2 | 0 | N/A | none | 31,000 ^d | 6,000 |
| S05045L | 1 | 25 | 0 | 1.2 ⁱ | remediate/apply EMC | 59,000 ^d | 31,000 |
| Elevation 61' | | | | | | | |
| S05061C | 1 | 9 | 0 | 0.31 | apply EMC | 39,000 ^d | 37,000 |
| S05061D | 1 | 6 | 0 | 0.55 | “ “ | 18,000 ^d | 17,000 |
| S05061F | 1 | 12 | 0 | N/A | none | 10,000 ^d | 7,000 |
| S05061G | 1 | 4 | 0 | 0.01 | apply EMC | 55,000 ^d | 12,000 |
| S05061H | 1 | 21 | 0 | 0.17 | remediate/apply EMC | 207,000 ^d | 15,000 |
| S05061I | 1 | 1 | 0 | 0.02 | apply EMC | 10,000 ^d | 10,000 ^d |
| S05061J | 1 | 18 | 0 | 0.42 | “ “ | 28,000 ^d | 25,000 |
| S05061K | 1 | 10 | 0 | 0.21 | remediate/apply EMC | 30,000 ^d | 12,000 |
| Elevation 77' | | | | | | | |
| S05072A | 1 | 16 | 0 | 0.14 | apply EMC | 40,000 ^d | 10,000 |
| S05075A | 1 | 12 | 0 | 0.23 | remediate/apply EMC | 75,000 ^d | 17,000 |
| S05077A | 1 | 1 | 0 | 0.01 | apply EMC | 13,000 ^d | 13,000 ^d |
| S05077B | 1 | 2 | 0 | 0.03 | “ “ | 21,000 ^d | 21,000 ^d |
| S05077D | 1 | 1 | 0 | N/A | none | 9,000 ^d | 6,000 |
| S05077E | 1 | 9 | 0 | N/A | “ | 10,000 ^d | 7,000 |
| S05077F | 1 | 45 | 0 | 1.4 ⁱ | remediate/apply EMC | 33,000 ^d | 12,000 |
| S05077G | 1 | 1 | 0 | N/A | none | 9,000 ^d | 7,000 |
| S05077H | 1 | 8 | 0 | 0.03 | apply EMC | 12,000 ^d | 11,000 |
| S05077J | 1 | 9 | 0 | 0.08 | “ “ | 26,000 ^d | 24,000 |
| S05077K | 1 | 2 | 0 | 0.03 | “ “ | 17,000 ^d | 17,000 ^d |
| S05077L | 1 | 4 | 0 | 0.06 | “ “ | 28,000 ^d | 24,000 |
| S05077M | 1 | 1 | 0 | 0.01 | “ “ | 14,000 ^d | 14,000 ^d |
| S05077Q | 1 | 2 | 0 | 0.08 | “ “ | 49,000 | 49,000 |
| S05077R | 1 | 4 | 0 | 0.01 | none | 9,000 ^d | 7,000 |
| S05077S | 1 | 9 | 0 | 0.23 | apply EMC | 46,000 | 46,000 |
| S05077T | 1 | 5 | 0 | 0.02 | “ “ | 19,000 ^d | 16,000 |
| S05077U | 1 | 5 | 0 | 0.01 | “ “ | 45,000 ^d | 9,000 |

Table 3-2

Summary of Data Investigation Results and Actions Taken

| Survey Unit | Class | Identified Locations | | Area > DCGL (m ²) ^a | Action(s) Taken ^b | Maximum Value (dpm/100 cm ²) ^c | |
|-----------------------|-------|----------------------|--------|--|------------------------------|---|--------------------|
| | | Scan | Static | | | Before | After |
| Elevation 77' (cont.) | | | | | | | |
| S05077V | 1 | 6 | 0 | 0.02 | apply EMC | 15,000 ^d | 7,000 |
| S05077W | 1 | 9 | 0 | 0.13 | “ “ | 32,000 ^d | 18,000 |
| S05077X | 1 | 2 | 0 | N/A | none | 10,000 ^d | 6,000 |
| S05077Y | 1 | 10 | 0 | 0.16 | remediate/apply EMC | 37,000 ^d | 9,000 |
| S05077Z | 1 | 7 | 0 | 0.20 | apply EMC | 24,000 ^d | 23,000 |
| S05083A | 1 | 1 | 0 | N/A | none | 8,000 ^d | 7,000 |
| S05083B | 1 | 5 | 0 | 0.02 | apply EMC | 26,000 ^d | 19,000 |
| Elevation 93' & 104' | | | | | | | |
| S05093B | 1 | 2 | 0 | 0.01 | apply EMC | 10,000 | 10,000 |
| S05093H | 2 | 4 | 0 | N/A | none ^h | 19,000 ^d | 7,000 |
| S05093J | 1 | 4 | 0 | 0.06 | remediate/apply EMC | 16,000 ^d | 9,000 |
| S05093K | 2 | 7 | 0 | N/A | none ^h | 16,000 ^d | 7,000 |
| S05104E | 1 | 4 | 0 | N/A | “ | 13,000 ^d | 5,000 |
| P62032A | 1 | 1 | 0 | 0.02 | apply EMC | 9,000 ^d | 9,000 ^d |

Notes:

^a Values rounded to two significant figures.

^b Actions included correcting results by subtracting instrument background and applying an area correction for areas smaller than 100 cm² (reference Technical basis memorandum FS-018-030), unless otherwise noted.

^c Values rounded to nearest 1,000 dpm/100 cm².

^d Uncorrected value.

^e Elevated area reclassified to Class 1 and added to survey unit S05005P.

^f Originally Class 2; reclassified to Class 1 as a result of investigation.

^g Scan coverage increased to 100%.

^h Survey unit remained Class 2 since initially elevated measurements were properly corrected to less than DCGL.

ⁱ Area > DCGL was less than 1 m² following remediation.

Figure 3-1
Auxiliary Building Elevation 5'

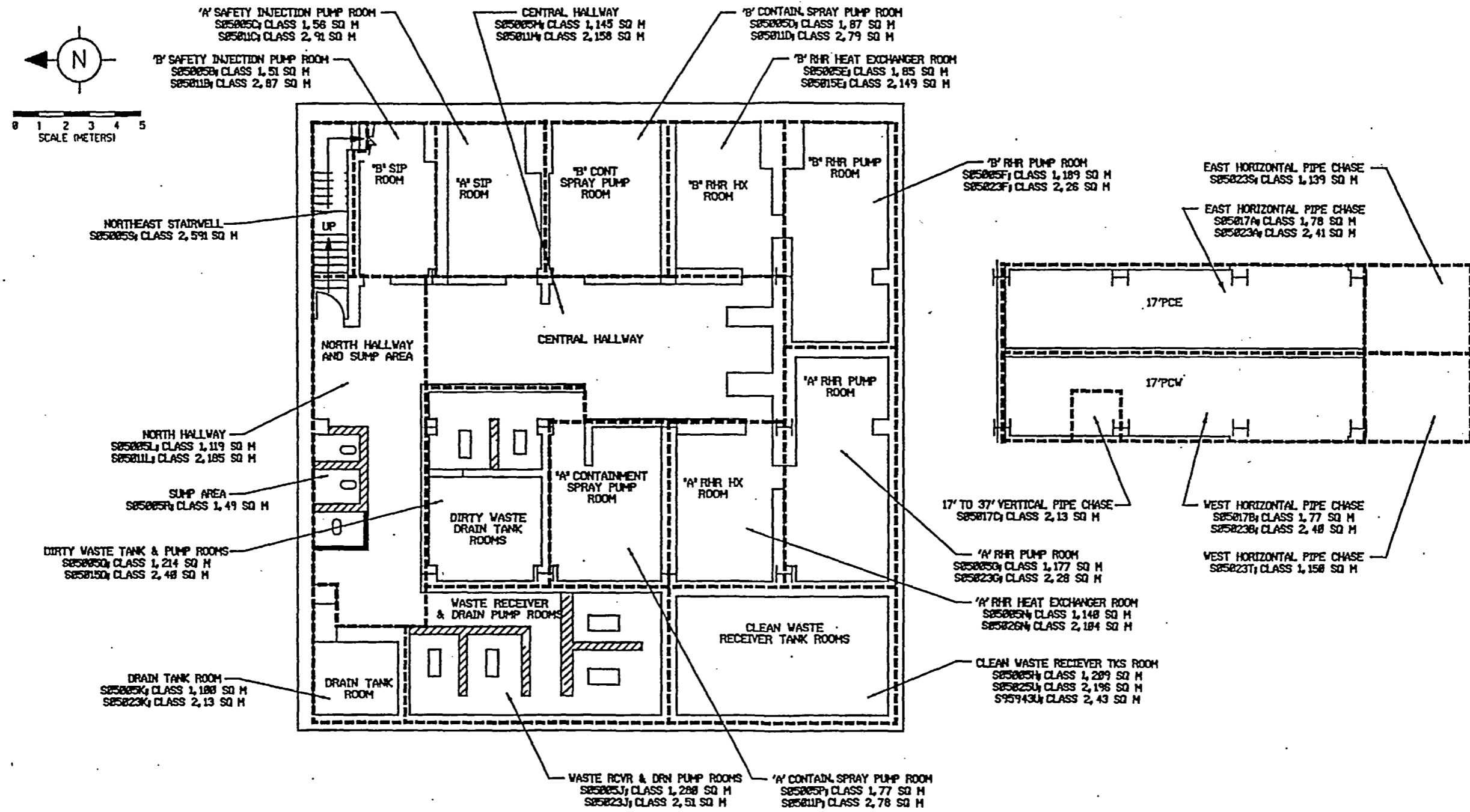


Figure 3-2
Auxiliary Building Elevation 25'

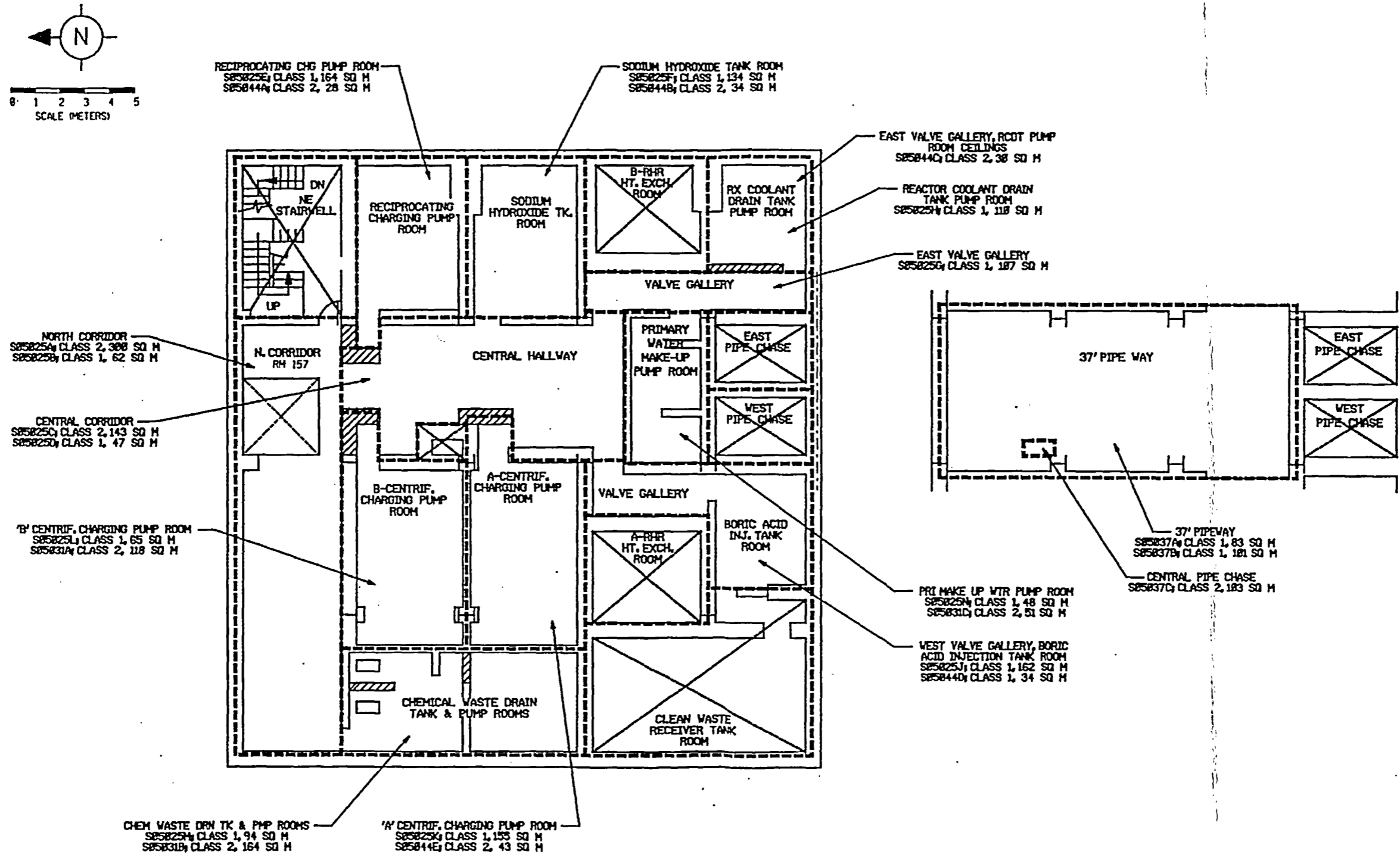


Figure 3-3

Auxiliary Building Elevation 45'

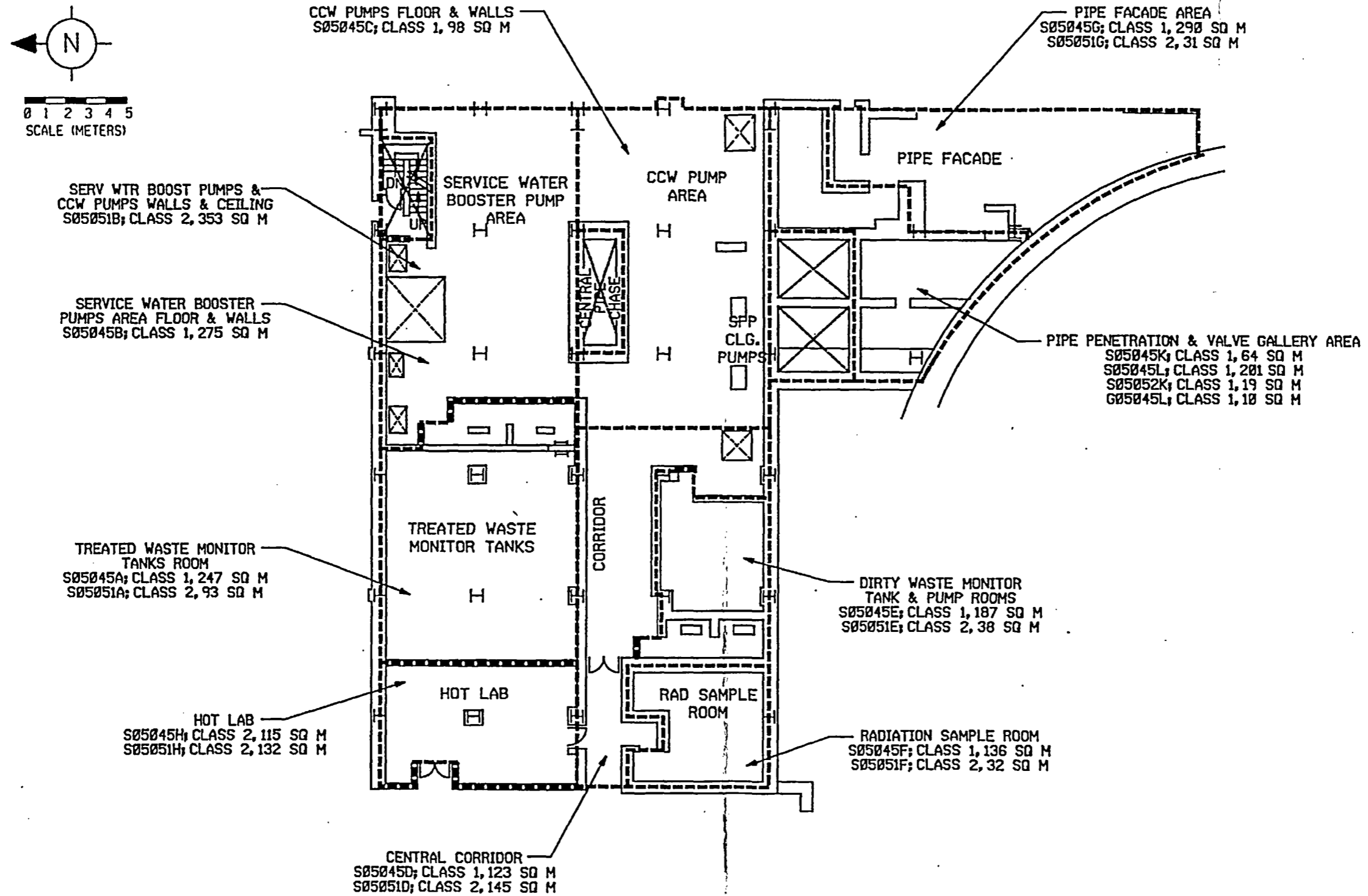


Figure 3-4

Auxiliary Building Elevation 61'

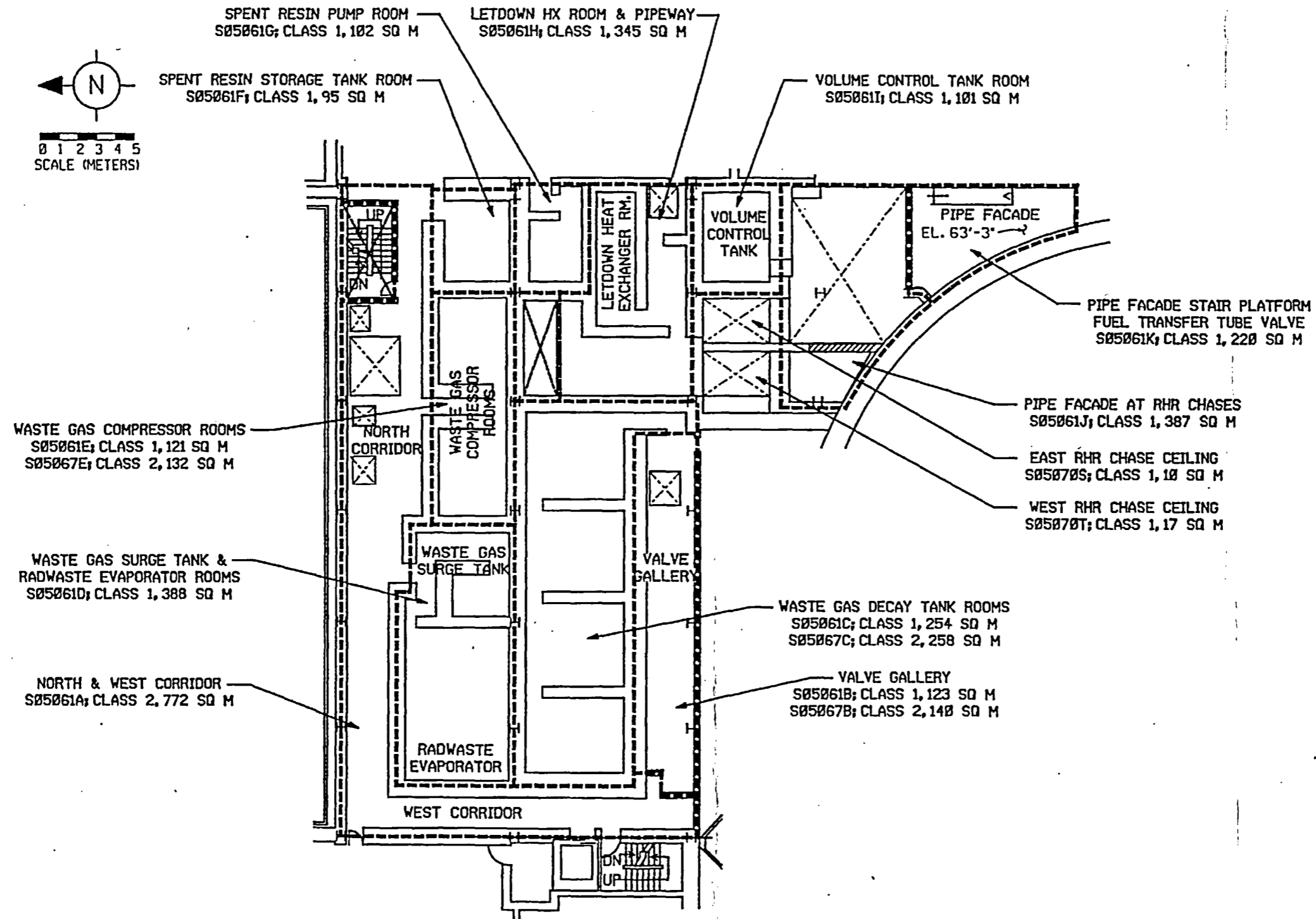


Figure 3-5
Auxiliary Building Elevation 77'

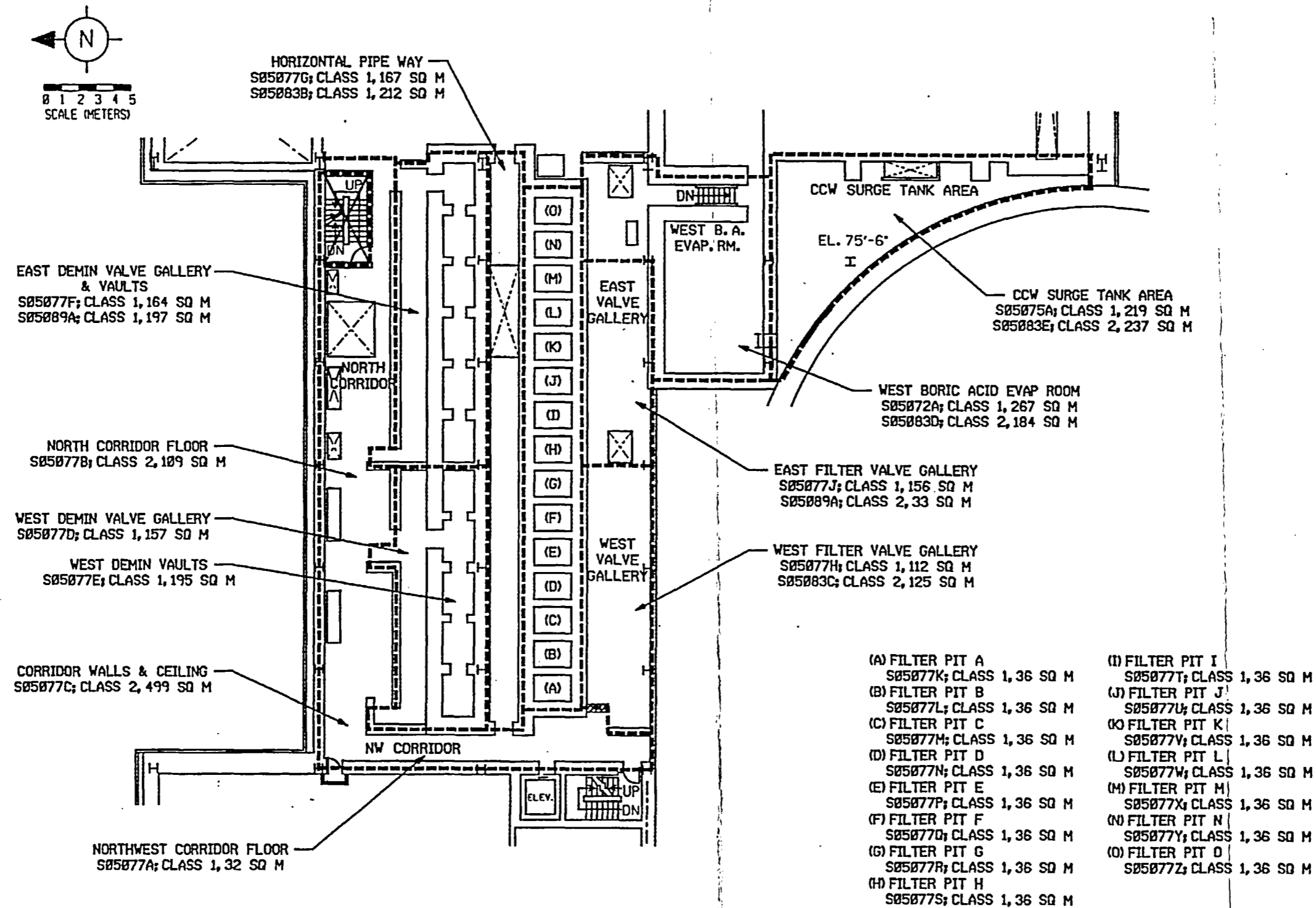
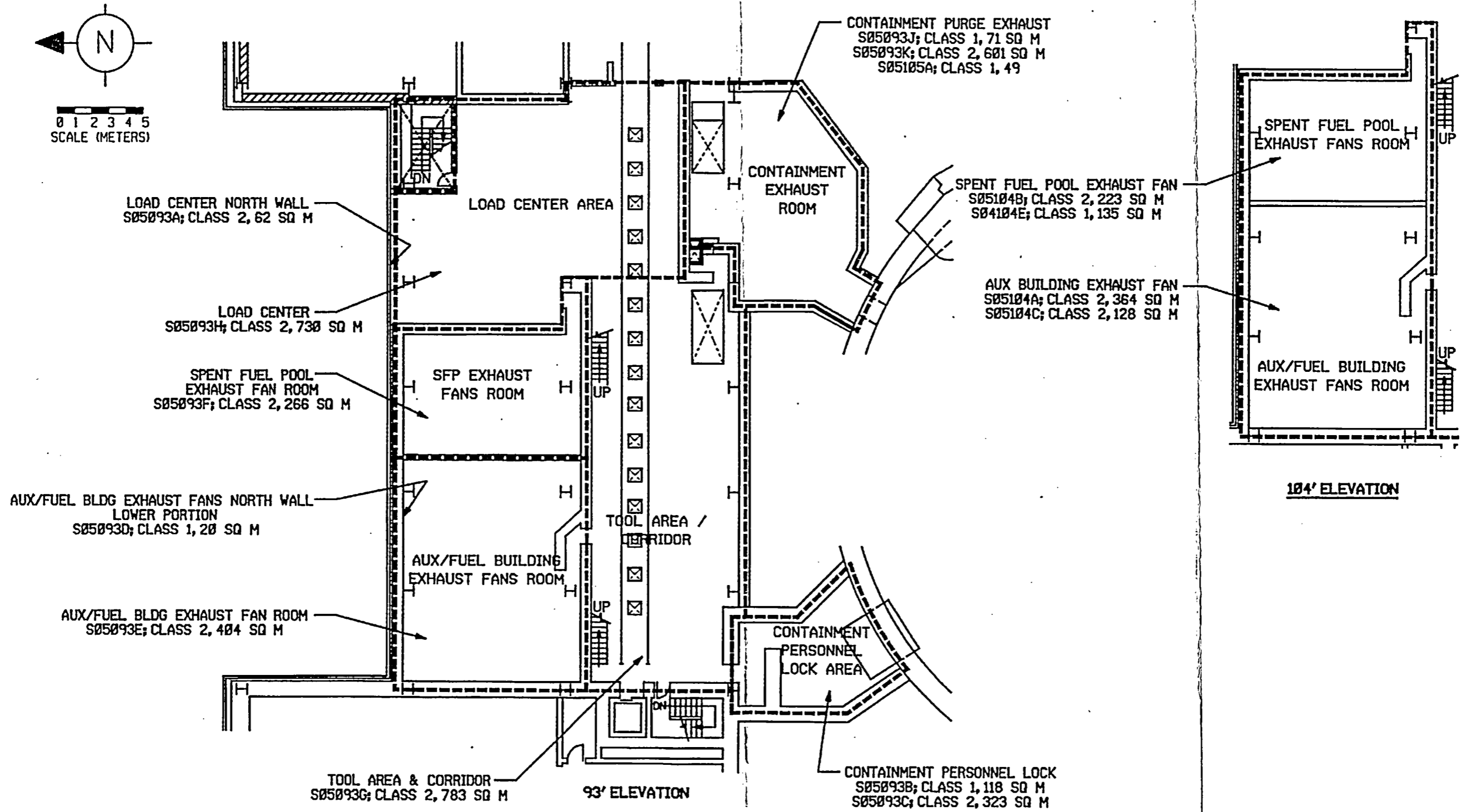


Figure 3-6

Auxiliary Building Elevations 93' & 104'



104'

4. DATA ASSESSMENT

Final survey data were reviewed to ensure that they were of a sufficient type, quantity, and quality such that conclusions could be drawn with confidence regarding the radiological condition of the survey unit. Conclusions were drawn and documented in a separate release record prepared for each survey unit. A summary of the release record for each survey unit is given in Appendices B through G.

4.1 DATA VERIFICATION AND VALIDATION

Data were reviewed to verify Data Quality Objectives (DQOs) established in the final survey design were met. Graphical representations and statistical comparisons of the data were made which provided both qualitative and quantitative information about the data. An assessment was performed to verify the data supported the underlying assumptions necessary for the statistical tests, if applicable.

4.1.1 DATA QUALITY

The final survey data were verified authentic, appropriately documented, and technically defensible. Specifically, the following conclusions were made:

1. The instruments used to collect the data were capable of detecting the radiation of interest at or below the investigation level.
2. The calibration of the instruments used to collect the data was current and radioactive sources used for calibration were NIST traceable.
3. Instrument response was checked before and, where required, after data collection each day.
4. The MDCs and the assumptions used to develop them were appropriate for the instruments and the survey methods used to collect the data.
5. The survey methods used to collect the data were appropriate for the media and types of radiation being measured.
6. Special measurement methods used to collect the data were applied as warranted by survey conditions.
7. The custody of samples collected for laboratory analysis was tracked from the point of collection until final results were obtained.
8. The final survey data set consists of qualified measurement results that are representative of the current facility status and randomly collected as prescribed by the survey design.

4.1.2 GRAPHICAL DATA REVIEW

Survey data were graphed to identify patterns, relationships, or potential anomalies in the data that might go unnoticed using purely numerical methods. A frequency plot was used to examine the general shape of the data distribution.

4.1.3 BASIC STATISTICAL COMPARISONS

Statistical quantities (range, median, and standard deviation) were calculated for the final survey data set for each final survey unit. The calculated quantities were compared to the test values shown in the following table.

Basic Statistical Comparisons

| Statistical Quantity | Test Value | Failure Response |
|---------------------------------|---|--|
| Range (R) | $R \leq 5 \sigma$ | Examine data for outliers |
| Median (\bar{u}) | $ (\bar{u} - \text{mean}) / \sigma \leq 0.5$ | Examine data for outliers and anomalies |
| Standard Deviation (σ) | $\sigma \leq 0.2 \times \text{DCGL}$ | Determine if more measurements are necessary |

Where the statistical quantity failed the comparison, the data set and/or survey design assumptions were examined. The statistical quantity failures are summarized in Table 4-1.

4.1.3.1 Range Test

Where the range was greater than 5 standard deviations, the data were examined for outliers. Outliers usually represented true extreme values of a distribution, such as areas of elevated residual radioactivity, and indicated more variability in the population than was expected. There were 23 range test failures; however, no data were discarded. The failures were generally caused by a very tight distribution with a single outlier with elevated results relative to the rest of the data set.

4.1.3.2 Median Test

Failure of the median test indicates large differences between the mean and the median and is an indication of the skewness in the data, warranting an examination of the data for outliers or anomalies. There were 14 median test failures; however, no data were discarded. The failures were generally caused by a bimodal distribution. The bimodal distribution is a result of having both smooth and scabbled concrete surfaces in the survey unit with different detector efficiencies for the two geometries.

4.1.3.3 Standard Deviation Test

Where the value of the calculated standard deviation was larger than that estimated in the survey design (the initial design value was $0.2 \times \text{DCGL}$), an insufficient number of measurements may

have been taken and additional measurements may have been necessary. There were no failures of the standard deviation test.

As an additional measure of assurance, the largest standard deviation from actual survey data collected (survey unit S05017B) was verified to be less than that estimated in the survey design. Therefore, the number of measurements collected was in all cases adequate.

4.2 SATISFACTION OF THE SITE RELEASE CRITERIA

Four conditions were established that, when met, satisfy the site release criteria (see Section 1.3.1). These conditions were applied to each survey unit as shown in Table 4-1.

4.2.1 CONDITION #1 - MEAN TEST

Condition #1 requires that the average residual radioactivity above background be less than or equal to the DCGL. Where penetrating radiation from embedded piping is present, as in the Auxiliary Building interior, the average is compared to $0.8 \times \text{DCGL}$ instead of to the DCGL (see LTP, Section 4.6.3.3). To determine if Condition #1 was met, the mean of the final survey unit data set for each survey unit was compared to $0.8 \times \text{DCGL}$. In all cases, the average residual radioactivity was less than $0.4 \times \text{DCGL}$. Therefore, each survey unit satisfies Condition #1.

4.2.2 CONDITION #2 - ELEVATED MEASUREMENT COMPARISON

Condition #2 requires that individual measurements, representing small areas of residual radioactivity that exceed the DCGL, do not exceed the EMC DCGL. To determine if Condition #2 was met, the individual measurements in 60 survey units, shown in Table 4-2, that exceeded the DCGL were compared to the EMC DCGL. In all cases, the individual measurements were less than $1.0 \times \text{EMC DCGL}$. Therefore, each survey unit satisfies Condition #2.

The EMC DCGL was developed using the methodology and the area factors provided in the LTP, Appendix 4-1. The radionuclide-specific area factors given in the LTP could not be used directly to develop the EMC DCGL since the gross activity DCGL was derived based on a radionuclide distribution and not on a single radionuclide. Instead, a weighting method was applied using the radionuclide distribution and the relative activity fractions used to derive the gross activity DCGL. The radionuclides of interest were those used in the derivation of the gross activity DCGL. Area factors for use with the gross activity DCGL were calculated for areas of elevated residual radioactivity of 1 m^2 , 4 m^2 , and 9 m^2 in size. The area factors were 4.9, 1.3, and 1.0, respectively. As applied, areas smaller in size than 1 m^2 were generally assumed to be 1 m^2 and the 1 m^2 value of 4.9 was used, resulting in an EMC DCGL of $37,000 \text{ dpm}/100 \text{ cm}^2$ ($4.9 \times \text{DCGL}$). In some cases where a small area with a relatively high concentration of residual radioactivity existed, the radioactivity was averaged over 1 m^2 for the purpose of applying the EMC. Two survey units had areas of elevated residual radioactivity that were larger than 1 m^2 , but less than 2 m^2 (S05045L and S05077F). In these cases, an interpolated value was applied as the area factor.

4.2.3 CONDITION #3 - SIGN TEST

Condition #3 requires that where one or more static measurements exceed the DCGL, the average residual radioactivity passes the Sign statistical test. To determine if Condition #3 was met, the Sign test would have been applied to the final survey data set of any survey unit with one or more static measurement above the DCGL. In this case, however, there were none. Therefore, each survey unit satisfies Condition #3.

The Sign statistical test was not applied to the final survey data set of any survey unit since none had one or more static measurements that exceeded the DCGL. The data provided statistically significant evidence that the level of residual radioactivity in the survey unit does not exceed the site release dose criterion. The results of the statistical test are the basis for the decision that the survey unit is acceptable for unrestricted release can be made with sufficient confidence and without further analysis. The Wilcoxon Rank Sum (WRS) statistical test was not used.

If all data measurements in the data set are less than the DCGL, the data set will always pass the Sign test. Therefore, the Sign test is not performed on such a data set.

4.2.4 CONDITION #4 - ALARA EVALUATION

Condition #4 requires that remediation be performed where it is ALARA to reduce the levels of residual radioactivity to below the concentrations necessary to meet the DCGLs. The levels of residual radioactivity were considered ALARA once remediation actions, considered to be cost effective, were taken. To determine if Condition #4 was met, an ALARA evaluation was performed for every Class 1 or Class 2 survey unit. In all cases, the ALARA evaluation verified that remediation was performed where it was ALARA to do so. Therefore, each survey unit satisfies Condition #4.

The ALARA evaluation ensured that: (1) residual radioactivity had been reduced to levels that are as low as reasonably achievable, and (2) efforts to remove residual radioactivity were commensurate with the level of risk the residual radioactivity poses. The ALARA evaluation examined various remediation actions to determine which actions, if any, have a net benefit in further reducing the levels of residual radioactivity. The evaluation compared residual radioactivity levels to calculated remediation levels (see Appendix A) for possible remediation actions. The remediation action was taken where the level of residual radioactivity exceeded the remediation level. Conversely, if the concentration was less than the remediation level, the level of residual radioactivity was documented as ALARA and the remediation action was not performed.

Table 4-1

Summary of Statistical Quantity Failures

| Survey Unit | Calculated Value | Acceptance Criterion | Reason for Failure | | |
|--------------------|------------------|----------------------|--------------------|--|---|
| | | | Number of Outliers | High/Low Value (dpm/100 cm ²) ^a | Balance of Data (dpm/100 cm ²) ^a |
| Range Test | | | | | |
| S05005J | 3,081 | ≤ 2,683 | 1 | 4,000 | <3,000 |
| S05011D | 753 | ≤ 651 | N/A | 1,000 | <1,000 ^b |
| S05011P | 687 | ≤ 678 | N/A | 1,000 | <1,000 ^b |
| S05017B | 6,123 | ≤ 5,652 | 1 | 7,000 | <3,000 |
| S05023F | 537 | ≤ 522 | N/A | 1,000 | <1,000 ^b |
| S05023G | 1,224 | ≤ 1,089 | 1 | 2,000 | <1,000 |
| S05023T | 1,422 | ≤ 1,399 | 1 | 2,000 | <1,000 |
| S05025N | 2,237 | ≤ 1,953 | 1 | 3,000 | <1,000 |
| S05031A | 407 | ≤ 379 | N/A | 1,000 | <1,000 ^b |
| S05031B | 1,114 | ≤ 899 | 1 | 2,000 | <1,000 |
| S05037C | 1,287 | ≤ 1,142 | 1 | 2,000 | <1,000 |
| S05045B | 2,492 | ≤ 2,255 | 1 | 3,000 | <2,000 |
| S05045L | 5,845 | ≤ 4,693 | 1 | 7,000 | <3,000 |
| G05045L | 0.961 | ≤ 0.860 | 1 | 1.0 ^c | <0.2 ^c |
| S05077B | 2,607 | ≤ 1,976 | 1 | 4,000 | <2,000 |
| S05077L | 1,615 | ≤ 1,403 | 1 | 1,000 | >1,000 ^b |
| S05077V | 4,306 | ≤ 3,928 | 1 | 5,000 | <3,000 |
| S05077Z | 1,734 | ≤ 1,503 | N/A | 3,000 | <2,000 ^b |
| S05083A | 1,324 | ≤ 1,151 | N/A | 2,000 | <2,000 ^b |
| S05083B | 1,270 | ≤ 935 | N/A | 2,000 | <2,000 ^b |
| S05083D | 697 | ≤ 667 | N/A | 1,000 | <1,000 ^b |
| S05093J | 4,827 | ≤ 4,156 | 1 | 6,000 | <3,000 |
| S05104A | 524 | ≤ 491 | N/A | 1,000 | <1,000 ^b |
| Median Test | | | | | |
| S05005B | 0.668 | ≤ 0.5 | N/A | N/A | N/A ^d |
| S05005C | 0.704 | ≤ 0.5 | N/A | N/A | N/A ^d |
| S05005D | 0.524 | ≤ 0.5 | N/A | N/A | N/A ^d |
| S05005P | 0.542 | ≤ 0.5 | N/A | N/A | N/A ^d |
| S05017A | 0.592 | ≤ 0.5 | N/A | N/A | N/A ^d |
| S05023S | 0.550 | ≤ 0.5 | N/A | N/A | N/A ^d |
| S05025E | 0.522 | ≤ 0.5 | N/A | N/A | N/A ^d |
| S05025L | 0.625 | ≤ 0.5 | N/A | N/A | N/A ^d |
| S05025M | 0.572 | ≤ 0.5 | N/A | N/A | N/A ^d |
| S05025N | 0.627 | ≤ 0.5 | N/A | N/A | N/A ^d |
| S05061C | 0.640 | ≤ 0.5 | N/A | N/A | N/A ^d |
| S05061E | 0.693 | ≤ 0.5 | N/A | N/A | N/A ^d |
| S05072A | 0.566 | ≤ 0.5 | N/A | N/A | N/A ^d |

Table 4-1

Summary of Statistical Quantity Failures

| Survey Unit | Calculated Value | Acceptance Criterion | Reason for Failure | | |
|--------------------------------|------------------|----------------------|--------------------|--|---|
| | | | Number of Outliers | High/Low Value (dpm/100 cm ²) ^a | Balance of Data (dpm/100 cm ²) ^a |
| S05093F | 0.553 | ≤ 0.5 | N/A | N/A | N/A ^d |
| Standard Deviation Test | | | | | |
| No test failures | | | | | |

Notes:

^a Values rounded to nearest 1,000 dpm/100 cm².

^b Small standard deviation due to tight data set population distribution.

^c Values given are unity rule ratio sums.

^d Bimodal distribution due to smooth and scabbled concrete surfaces with different detector efficiencies for the two geometries.

Table 4-2

Satisfaction of Conditions for Site Release

| Survey ID Code | Description | Class | | | Condition #1 Mean Test | | Condition #2 EMC | | | Condition #3 Sign Test | | Condition #4 ALARA | | Conclusion: Satisfies Release Criteria? |
|----------------|---|-------|---|---|------------------------|-----------|------------------------|-----------|----------|------------------------|----------------|--------------------|----------------------|---|
| | | 1 | 2 | 3 | Mean | % of DCGL | Area (m ²) | Max Value | % of EMC | S+ Value | Critical Value | Rad Levels ALARA? | Remediated to ALARA? | |
| Elevation 5' | | | | | | | | | | | | | | |
| S05005B | "B" Safety Injection Pump Room Floor/Lower Walls | x | | | 1,400 | 19 | 0.19 | 11,000 | 30 | --- | --- | N | Y | Y |
| S05005C | "A" Safety Injection Pump Room Floor/Lower Walls | x | | | 1,300 | 17 | 0.01 | 15,000 | 30 | --- | --- | Y | N/A | Y |
| S05005D | "B" Containment Spray Pump Room Floor & Walls | x | | | 1,100 | 15 | --- | --- | --- | --- | --- | N | Y | Y |
| S05005E | "B" RHR Heat Exchanger Room Floor/Lower Walls | x | | | 1,400 | 19 | 0.20 | 18,000 | 49 | --- | --- | N | Y | Y |
| S05005F | "B" RHR Pump Room Floor & Walls | x | | | 1,700 | 23 | 0.34 | 14,000 | 38 | --- | --- | N | Y | Y |
| S05005G | "A" RHR Pump Room Floor & Walls | x | | | 1,200 | 16 | 0.07 | 16,000 | 44 | --- | --- | N | Y | Y |
| S05005H | Clean Waste Receiver Tank Room Floor & Walls | x | | | 1,400 | 19 | 0.06 | 13,000 | 35 | --- | --- | N | Y | Y |
| S05005J | Waste Receiver & Drain Pump Rooms Floor & Walls | x | | | 1,700 | 23 | 0.52 | 14,000 | 38 | --- | --- | N | Y | Y |
| S05005K | Drain Tank Room Floor & Walls | x | | | 1,100 | 15 | 0.01 | 14,000 | 38 | --- | --- | N | Y | Y |
| S05005L | North Hallway Floor & Lower Walls | x | | | 1,600 | 21 | 0.04 | 12,000 | 33 | --- | --- | N | Y | Y |
| S05005M | Central Hallway Floor & Lower Walls | x | | | 1,900 | 25 | 0.04 | 22,000 | 60 | --- | --- | N | Y | Y |
| S05005N | "A" RHR Heat Exchanger Room Floor/Lower Walls | x | | | 1,200 | 16 | 0.09 | 8,000 | 22 | --- | --- | N | Y | Y |
| S05005P | "A" Containment Spray Pump Rm Floor/Lower Walls | x | | | 1,300 | 17 | 0.05 | 33,000 | 90 | --- | --- | N | Y | Y |
| S05005Q | Dirty Waste Tank & Pump Rooms Floor & Walls | x | | | 1,700 | 23 | 0.55 | 17,000 | 46 | --- | --- | N | Y | Y |
| S05005R | Sump Floor, Walls, & Curb | x | | | 2,100 | 28 | 0.02 | 9,000 | 24 | --- | --- | N | Y | Y |
| S05005S | NE Stairwell (to Elev. 93) | | x | | 1,000 | 13 | --- | --- | --- | --- | --- | Y | N/A | Y |
| S05011B | "B" Safety Injection Pump Rm Upper Walls/Ceiling | | x | | 770 | 10 | --- | --- | --- | --- | --- | Y | N/A | Y |
| S05011C | "A" Safety Injection Pump Rm Upper Walls/Ceiling | | x | | 810 | 11 | --- | --- | --- | --- | --- | Y | N/A | Y |
| S05011D | "B" Containment Spray Pmp Rm Uppr Walls/Ceiling | | x | | 750 | 10 | --- | --- | --- | --- | --- | Y | N/A | Y |
| S05011L | North Hallway Upper Walls & Ceiling | | x | | 790 | 11 | --- | --- | --- | --- | --- | Y | N/A | Y |
| S05011M | Central Hallway Upper Walls & Ceiling | | x | | 790 | 11 | --- | --- | --- | --- | --- | Y | N/A | Y |
| S05011P | "A" Containment Spray Pmp Rm Uppr Walls/Ceiling | | x | | 810 | 11 | --- | --- | --- | --- | --- | Y | N/A | Y |
| S05015E | "B" RHR Heat Exchanger Room Upper Walls/Ceiling | | x | | 890 | 12 | --- | --- | --- | --- | --- | Y | N/A | Y |
| S05015Q | Dirty Waste Tank & Pump Rooms Ceiling | | x | | 760 | 10 | --- | --- | --- | --- | --- | Y | N/A | Y |
| S05017A | Elev 17' East Horizontal Pipe Chase Floor & Walls | x | | | 1,600 | 21 | --- | --- | --- | --- | --- | N | Y | Y |
| S05017B | Elev 17' West Horizontal Pipe Chase Floor & Walls | x | | | 1,700 | 23 | 0.02 | 32,000 | 87 | --- | --- | N | Y | Y |
| S05017C | Elev 17' to 37' Vertical Pipe Chase | | x | | 1,200 | 16 | --- | --- | --- | --- | --- | Y | N/A | Y |
| S05023A | Elev 17' East Horizontal Pipe Chase Ceiling | | x | | 810 | 11 | --- | --- | --- | --- | --- | Y | N/A | Y |
| S05023B | Elev 17' Horizontal Pipe Chase - West | | x | | 800 | 11 | --- | --- | --- | --- | --- | Y | N/A | Y |

Table 4-2

Satisfaction of Conditions for Site Release

| Survey ID Code | Description | Class | | | Condition #1 Mean Test | | Condition #2 EMC | | | Condition #3 Sign Test | | Condition #4 ALARA | | Conclusion: Satisfies Release Criteria? |
|----------------------|---|-------|---|---|------------------------|-----------|------------------------|-----------|----------|------------------------|----------------|--------------------|----------------------|---|
| | | 1 | 2 | 3 | Mean | % of DCGL | Area (m ²) | Max Value | % of EMC | S+ Value | Critical Value | Rad Levels ALARA? | Remediated to ALARA? | |
| Elevation 5' (cont.) | | | | | | | | | | | | | | |
| S05023F | "B" RHR Pump Room Ceiling | | x | | 820 | 11 | --- | --- | --- | --- | --- | Y | N/A | Y |
| S05023G | "A" RHR Pump Room Ceiling | | x | | 710 | 9 | --- | --- | --- | --- | --- | Y | N/A | Y |
| S05023J | Waste Receiver & Drain Pump Rooms Ceiling | | x | | 610 | 8 | --- | --- | --- | --- | --- | Y | N/A | Y |
| S05023K | Drain Tank Room Ceiling | | x | | 1,100 | 15 | --- | --- | --- | --- | --- | Y | N/A | Y |
| S05023S | East RHR Vertical Pipe Chase | x | | | 1,200 | 16 | 0.33 | 21,000 | 57 | --- | --- | N | Y | Y |
| S05023T | West RHR Vertical Pipe Chase | x | | | 930 | 12 | 0.18 | 15,000 | 41 | --- | --- | N | Y | Y |
| S05025U | Clean Waste Receiver Tank Room Upper Walls | x | | | 1,700 | 23 | 0.07 | 26,000 | 71 | --- | --- | N | Y | Y |
| S05026N | "A" RHR Heat Exchanger Rm Upper Walls/Ceiling | | x | | 880 | 12 | --- | --- | --- | --- | --- | Y | N/A | Y |
| S05043U | Clean Waste Receiver Tank Room Ceiling | | x | | 950 | 13 | --- | --- | --- | --- | --- | Y | N/A | Y |
| Elevation 25' | | | | | | | | | | | | | | |
| S05025A | North Corridor Walls & Ceiling | | x | | 820 | 11 | --- | --- | --- | --- | --- | Y | N/A | Y |
| S05025B | North Corridor Floor | x | | | 1,800 | 24 | 0.37 | 21,000 | 57 | --- | --- | N | Y | Y |
| S05025C | Central Hallway Walls & Ceiling | | x | | 830 | 11 | --- | --- | --- | --- | --- | Y | N/A | Y |
| S05025D | Central Hallway Floor | x | | | 2,100 | 28 | --- | --- | --- | --- | --- | Y | N/A | Y |
| S05025E | Reciprocating Charging Pump Room Floor/Walls | x | | | 1,200 | 16 | 0.95 | 28,000 | 76 | --- | --- | N | Y | Y |
| S05025F | Sodium Hydroxide Tank Room Floor & Walls | x | | | 1,200 | 16 | --- | --- | --- | --- | --- | N | Y | Y |
| S05025G | East Valve Gallery | x | | | 1,100 | 15 | 0.05 | 13,000 | 35 | --- | --- | N | Y | Y |
| S05025H | Reactor Coolant Drain Tank Pump Room | x | | | 1,500 | 20 | 0.14 | 12,000 | 33 | --- | --- | N | Y | Y |
| S05025J | West Valve Gallery/BIT Rooms Floors & Walls | x | | | 1,600 | 21 | 2.1 | 18,000 | 49 | --- | --- | N | Y | Y |
| S05025K | South "A" CCP Room Floors & Walls | x | | | 1,100 | 15 | --- | --- | --- | --- | --- | N | Y | Y |
| S05025L | North "B" CCP Room Floors & Lower Walls | x | | | 1,300 | 17 | 0.02 | 20,000 | 54 | --- | --- | Y | N/A | Y |
| S05025M | CWDT & Pump Rooms Floors & Lower Walls | x | | | 1,200 | 16 | 0.11 | 14,000 | 38 | --- | --- | N | Y | Y |
| S05025N | PMW Pump Room Floor & Lower Walls | x | | | 1,200 | 16 | --- | --- | --- | --- | --- | Y | N/A | Y |
| S05031A | North "B" CCP Room Upper Walls & Ceiling | | x | | 750 | 10 | --- | --- | --- | --- | --- | Y | N/A | Y |
| S05031B | CWDT & Pump Rooms Upper Walls & Ceilings | | x | | 780 | 10 | --- | --- | --- | --- | --- | Y | N/A | Y |
| S05031C | PMW Pump Room Upper Walls & Ceilings | | x | | 770 | 10 | --- | --- | --- | --- | --- | Y | N/A | Y |
| S05037A | Elev 37' Pipeway Floor | x | | | 2,100 | 28 | --- | --- | --- | --- | --- | N | Y | Y |
| S05037B | Elev 37' Pipeway Walls & Ceiling | | x | | 690 | 9 | --- | --- | --- | --- | --- | Y | N/A | Y |
| S05037C | Elev 37' (to Elev 77') Central Pipe Chase | x | | | 880 | 12 | 0.03 | 16,000 | 44 | --- | --- | N | Y | Y |

Table 4-2

Satisfaction of Conditions for Site Release

| Survey ID Code | Description | Class | | | Condition #1 Mean Test | | Condition #2 EMC | | | Condition #3 Sign Test | | Condition #4 ALARA | | Conclusion: Satisfies Release Criteria? |
|-----------------------|---|-------|---|---|------------------------|-----------|------------------------|-----------|----------|------------------------|----------------|--------------------|----------------------|---|
| | | 1 | 2 | 3 | Mean | % of DCGL | Area (m ²) | Max Value | % of EMC | S+ Value | Critical Value | Rad Levels ALARA? | Remediated to ALARA? | |
| Elevation 25' (cont.) | | | | | | | | | | | | | | |
| S05044A | Reciprocating Charging Pump Room Ceiling | | x | | 890 | 12 | --- | --- | --- | --- | --- | Y | N/A | Y |
| S05044B | Sodium Hydroxide Tank Room Ceiling | | x | | 770 | 10 | | | | | | Y | N/A | |
| S05044C | East Valve Gallery/RCDT Rooms Ceiling | | x | | 820 | 11 | --- | --- | --- | --- | --- | Y | N/A | Y |
| S05044D | West Valve Gallery/BIT Rooms Ceiling | x | | | 990 | 13 | 0.02 | 13,000 | 35 | --- | --- | Y | N/A | Y |
| S05044E | South "A" CCP Room Ceiling | | x | | 860 | 11 | --- | --- | --- | --- | --- | Y | N/A | Y |
| Elevation 45' | | | | | | | | | | | | | | |
| S05045A | Treated Waste Monitor Tank Room Floor/Walls | x | | | 1,600 | 21 | 0.02 | 12,000 | 33 | --- | --- | N | Y | Y |
| S05045B | SW Booster Pump Area Floor & Lower Walls | x | | | 1,600 | 21 | 0.05 | 9,000 | 24 | --- | --- | N | Y | Y |
| S05045C | CCW Pump Area Floor & Lower Walls | x | | | 1,800 | 24 | --- | --- | --- | --- | --- | N | Y | Y |
| S05045D | Central Corridor Floor & Lower Walls | x | | | 1,600 | 21 | <0.01 | 12,000 | 33 | --- | --- | Y | N/A | Y |
| S05045E | DWM Tank/Pump Room Floor & Walls | x | | | 1,300 | 17 | --- | --- | --- | --- | --- | N | Y | Y |
| S05045F | Radiological Sample Room Floor & Walls | x | | | 1,800 | 24 | --- | --- | --- | --- | --- | N | Y | Y |
| S05045G | Pipe Facade | x | | | 1,800 | 24 | 0.51 | 14,000 | 38 | --- | --- | N | Y | Y |
| S05045H | Hot Lab Floor & Lower Walls | x | | | 1,700 | 23 | --- | --- | --- | --- | --- | N | Y | Y |
| S05045J | West Corridor | | x | | 1,500 | 20 | --- | --- | --- | --- | --- | Y | N/A | Y |
| S05045K | Pipe Penetration Area Valve Gallery Floor & Walls | x | | | 1,600 | 21 | --- | --- | --- | --- | --- | N | Y | Y |
| S05045L | Pipe Penetration Area Floor, Walls, & Ceiling | x | | | 2,100 | 28 | 1.2 | 31,000 | 84 | --- | --- | N | Y | Y |
| S05051A | Treated Waste Monitor Tank Room Ceiling | | x | | 870 | 12 | --- | --- | --- | --- | --- | Y | N/A | Y |
| S05051B | SW Booster/CCW Pumps Area Upper Walls/Ceiling | | x | | 910 | 12 | --- | --- | --- | --- | --- | Y | N/A | Y |
| S05051D | Central Corridor Upper Walls & Ceiling | | x | | 950 | 13 | --- | --- | --- | --- | --- | Y | N/A | Y |
| S05051E | DWM Tank/Pump Room Ceiling | | x | | 690 | 9 | --- | --- | --- | --- | --- | Y | N/A | Y |
| S05051F | Radiological Sample Room Ceiling | | x | | 790 | 11 | --- | --- | --- | --- | --- | Y | N/A | Y |
| S05051G | Pipe Façade Upper East Wall | | x | | 870 | 12 | --- | --- | --- | --- | --- | Y | N/A | Y |
| S05051H | Hot Lab Upper Walls & Ceiling | | x | | 890 | 12 | --- | --- | --- | --- | --- | Y | N/A | Y |
| S05052K | Pipe Penetration Area Valve Gallery Ceiling | | x | | 600 | 8 | --- | --- | --- | --- | --- | Y | N/A | Y |
| G05045L | Pipe Penetration Area Exposed Soil Areas | x | | | 0.08 ^h | 8 | --- | --- | --- | --- | --- | Y | N/A | Y |
| Elevation 61' | | | | | | | | | | | | | | |
| S05061A | North & West Corridors | | x | | 1,100 | 15 | --- | --- | --- | --- | --- | Y | N/A | |
| S05061B | Valve Gallery Floor & Lower Walls | x | | | 1,100 | 15 | --- | --- | --- | --- | --- | N | Y | Y |

Table 4-2

Satisfaction of Conditions for Site Release

| Survey ID Code | Description | Class | | | Condition #1 Mean Test | | Condition #2 EMC | | | Condition #3 Sign Test | | Condition #4 ALARA | | Conclusion: Satisfies Release Criteria? |
|-----------------------|---|-------|---|---|------------------------|-----------|------------------------|-----------|----------|------------------------|----------------|--------------------|----------------------|---|
| | | 1 | 2 | 3 | Mean | % of DCGL | Area (m ²) | Max Value | % of EMC | S+ Value | Critical Value | Rad Levels ALARA? | Remediated to ALARA? | |
| Elevation 61' (cont.) | | | | | | | | | | | | | | |
| S05061C | Waste Gas Decay Tank Rooms Floor/Lower Walls | x | | | 1,300 | 17 | 0.31 | 37,000 | 99 | --- | --- | N | Y | Y |
| S05061D | Waste Gas Surge Tank/Radwaste Evaporator Rooms | x | | | 980 | 13 | 0.55 | 17,000 | 46 | --- | --- | N | Y | Y |
| S05061E | Waste Gas Compressor Rooms Floors/Lower Walls | x | | | 1,400 | 19 | --- | --- | --- | --- | --- | Y | N/A | Y |
| S05061F | Spent Resin Storage Tank Room | x | | | 1,800 | 24 | --- | --- | --- | --- | --- | N | Y | Y |
| S05061G | Spent Resin Storage Tank Pump Room | x | | | 2,500 | 33 | 0.01 | 12,000 | 33 | --- | --- | N | Y | Y |
| S05061H | Letdown Hx Room & Adjacent Pipeway Area | x | | | 1,100 | 15 | 0.17 | 15,000 | 41 | --- | --- | N | Y | Y |
| S05061I | Volume Control Tank Room | x | | | 1,700 | 23 | 0.02 | 10,000 | 27 | --- | --- | N | Y | Y |
| S05061J | Pipe Façade at RHR Pipe Chase | x | | | 1,400 | 19 | 0.42 | 25,000 | 68 | --- | --- | N | Y | Y |
| S05061K | Pipe Façade Stair Platform/Fuel Transfer Tube Vault | x | | | 1,700 | 23 | 0.21 | 12,000 | 33 | --- | --- | N | Y | Y |
| S05067B | Valve Gallery Upper Walls & Ceiling | | x | | 770 | 10 | --- | --- | --- | --- | --- | Y | N/A | Y |
| S05067C | Waste Gas Decay Tank Rooms Upper Walls/Ceiling | | x | | 770 | 10 | --- | --- | --- | --- | --- | Y | N/A | Y |
| S05067E | Waste Gas Compressor Rooms Upper Walls/Ceiling | | x | | 870 | 12 | --- | --- | --- | --- | --- | Y | N/A | Y |
| S05070S | East RHR Vertical Pipe Chase Ceiling | | x | | 880 | 12 | --- | --- | --- | --- | --- | Y | N/A | Y |
| S05070T | AB Elev 70' West RHR Vertical Pipe Chase Ceiling | | x | | 780 | 10 | --- | --- | --- | --- | --- | Y | N/A | Y |
| Elevation 77' | | | | | | | | | | | | | | |
| S05072A | West Boric Acid Evaporator Rm Floor/Lower Walls | x | | | 1,200 | 16 | 0.14 | 10,000 | 27 | --- | --- | N | Y | Y |
| S05075A | CCW Surge Tank Area Floor & Lower Walls | x | | | 1,400 | 19 | 0.23 | 17,000 | 46 | --- | --- | N | Y | Y |
| S05077A | Northwest Corridor Floor | x | | | 2,400 | 32 | 0.01 | 13,000 | 35 | --- | --- | Y | N/A | Y |
| S05077B | North Corridor Floor | x | | | 2,100 | 28 | 0.03 | 21,000 | 57 | --- | --- | N | Y | Y |
| S05077C | Corridor Walls And Ceiling | | x | | 1,000 | 13 | --- | --- | --- | --- | --- | Y | N/A | Y |
| S05077D | West Demineralizer Valve Gallery | x | | | 1,800 | 24 | --- | --- | --- | --- | --- | N | Y | Y |
| S05077E | West Demineralizer Vaults | x | | | 1,600 | 21 | --- | --- | --- | --- | --- | N | Y | Y |
| S05077F | East Demin Valve Gallery/Vaults Floors/Lower Walls | x | | | 1,700 | 23 | 1.4 | 12,000 | 43 | --- | --- | N | Y | Y |
| S05077G | Horizontal Pipe Way Lower Walls And Floor | x | | | 1,600 | 21 | --- | --- | --- | --- | --- | N | Y | Y |
| S05077H | West Filter Valve Gallery Floor & Lower Walls | x | | | 1,900 | 25 | 0.03 | 11,000 | 30 | --- | --- | Y | N/A | Y |
| S05077J | East Filter Valve Gallery Floor and Walls | x | | | 1,500 | 20 | 0.08 | 24,000 | 65 | --- | --- | N | Y | Y |
| S05077K | Filter Pit "A" | x | | | 1,500 | 20 | 0.03 | 17,000 | 46 | --- | --- | N | Y | Y |
| S05077L | Filter Pit "B" | x | | | 1,600 | 21 | 0.06 | 24,000 | 65 | --- | --- | Y | N/A | Y |
| S05077M | Filter Pit "C" | x | | | 1,400 | 19 | 0.01 | 14,000 | 38 | --- | --- | Y | N/A | Y |

Table 4-2

Satisfaction of Conditions for Site Release

| Survey ID Code | Description | Class | | | Condition #1 Mean Test | | Condition #2 EMC | | | Condition #3 Sign Test | | Condition #4 ALARA | | Conclusion: Satisfies Release Criteria? |
|-----------------------|---|-------|---|---|------------------------|-----------|------------------------|-----------|----------|------------------------|----------------|--------------------|----------------------|---|
| | | 1 | 2 | 3 | Mean | % of DCGL | Area (m ²) | Max Value | % of EMC | S+ Value | Critical Value | Rad Levels ALARA? | Remediated to ALARA? | |
| Elevation 77' (cont.) | | | | | | | | | | | | | | |
| S05077Q | Filter Pit "F" | x | | | 1,400 | 19 | 0.08 | 49,000 | 99 | --- | --- | N | Y | Y |
| S05077R | Filter Pit "G" | x | | | 1,500 | 20 | --- | --- | --- | --- | --- | N | Y | Y |
| S05077S | Filter Pit "H" | x | | | 1,500 | 20 | 0.23 | 46,000 | 99 | --- | --- | N | Y | Y |
| S05077T | Filter Pit "I" | x | | | 1,600 | 21 | 0.02 | 16,000 | 44 | --- | --- | N | Y | Y |
| S05077U | Filter Pit "J" | x | | | 1,300 | 17 | 0.01 | 9,000 | 24 | --- | --- | N | Y | Y |
| S05077V | Filter Pit "K" | x | | | 1,500 | 20 | --- | --- | --- | --- | --- | N | Y | Y |
| S05077W | Filter Pit "L" | x | | | 1,900 | 25 | 0.13 | 18,000 | 49 | --- | --- | N | Y | Y |
| S05077X | Filter Pit "M" | x | | | 1,500 | 20 | --- | --- | --- | --- | --- | N | Y | Y |
| S05077Y | Filter Pit "N" | x | | | 2,300 | 31 | 0.16 | 9,000 | 24 | --- | --- | Y | N/A | Y |
| S05077Z | Filter Pit "O" | x | | | 2,000 | 27 | 0.20 | 23,000 | 63 | --- | --- | Y | N/A | Y |
| S05083A | E Demin Valve Gallery/Vaults Upper Walls/Ceiling | x | | | 920 | 12 | --- | --- | --- | --- | --- | N | Y | Y |
| S05083B | Horizontal Pipe Way Upper Walls & Ceiling | x | | | 820 | 11 | 0.02 | 19,000 | 52 | --- | --- | N | Y | Y |
| S05083C | West Filter Valve Gallery Upper Walls & Ceiling | | x | | 1,300 | 17 | --- | --- | --- | --- | --- | Y | N/A | Y |
| S05083D | West Boric Acid Evaporator Rm Upper Walls/Ceiling | | x | | 820 | 11 | --- | --- | --- | --- | --- | Y | N/A | Y |
| S05083E | CCW Surge Tank Area Upper Walls & Ceiling | | x | | 1,000 | 13 | --- | --- | --- | --- | --- | Y | N/A | Y |
| S05089A | East Filter Valve Gallery Ceiling | | x | | 710 | 9 | --- | --- | --- | --- | --- | Y | N/A | Y |
| Elevation 93' & 104' | | | | | | | | | | | | | | |
| S05093A | Load Center Area North Wall | | x | | 630 | 8 | --- | --- | --- | --- | --- | Y | N/A | Y |
| S05093B | Containment Personnel Lock Floor & Lower Walls | x | | | 1,000 | 13 | 0.01 | 10,000 | 27 | --- | --- | N | Y | Y |
| S05093C | Containment Personnel Lock Upper Walls/Ceiling | | x | | 1,200 | 16 | --- | --- | --- | --- | --- | Y | N/A | Y |
| S05093D | Aux/Fuel Bldg Exhaust Fan Room N Lower Wall | x | | | 1,000 | 13 | --- | --- | --- | --- | --- | N | Y | Y |
| S05093E | Aux/Fuel Bldg Exhaust Fan Room | | x | | 980 | 13 | --- | --- | --- | --- | --- | Y | N/A | Y |
| S05093F | Spent Fuel Pool Exhaust Fan Room | | x | | 1,500 | 20 | --- | --- | --- | --- | --- | Y | N/A | Y |
| S05093G | Tool Area & Corridor | | x | | 1,000 | 13 | --- | --- | --- | --- | --- | Y | N/A | Y |
| S05093H | Load Center Area (less North Wall) | | x | | 1,400 | 19 | --- | --- | --- | --- | --- | Y | N/A | Y |
| S05093J | Containment Purge Exhaust Room Floor | x | | | 2,300 | 31 | 0.06 | 9,000 | 24 | --- | --- | N | Y | Y |
| S05093K | Containment Purge Exhaust Room | | x | | 1,100 | 15 | --- | --- | --- | --- | --- | Y | N/A | Y |
| S05104A | Elev 104' Aux/Fuel Bldg Exh Fan Rm Walls/Ceiling | | x | | 820 | 11 | --- | --- | --- | --- | --- | Y | N/A | Y |
| S05104B | Elev 104' SFP Exhaust Fan Rm Upper Walls/Ceiling | | x | | 820 | 11 | --- | --- | --- | --- | --- | Y | N/A | Y |

Table 4-2

Satisfaction of Conditions for Site Release

| Survey ID Code | Description | Class | | | Condition #1 Mean Test | | Condition #2 EMC | | | Condition #3 Sign Test | | Condition #4 ALARA | | Conclusion: Satisfies Release Criteria? |
|---------------------------------|--|-------|---|---|------------------------|-----------|------------------------|-----------|----------|------------------------|----------------|--------------------|----------------------|---|
| | | 1 | 2 | 3 | Mean | % of DCGL | Area (m ²) | Max Value | % of EMC | S+ Value | Critical Value | Rad Levels ALARA? | Remediated to ALARA? | |
| Elevation 93' & 104' | | | | | | | | | | | | | | |
| S05104C | Elev 104' Aux Bldg Exhaust Fan Room Floor | | x | | 1,200 | 16 | --- | --- | --- | --- | --- | Y | N/A | Y |
| S05104E | Elev 104' SFP Exhaust Fan Room Floor/Lower Walls | x | | | 1,100 | 15 | --- | --- | --- | --- | --- | N | Y | Y |
| S05105A | Containment Purge Exhaust Room Ceiling | x | | | 1,100 | 15 | --- | --- | --- | --- | --- | N | Y | Y |
| P62032A | Auxiliary/Fuel Bldg HVAC | x | | | 1,100 | 15 | 0.02 | 9,000 | 24 | --- | --- | N | Y | Y |

5. FINAL SURVEY CONCLUSION

The final survey of the Auxiliary Building interior was performed in accordance with the LTP and its implementing procedures. Final survey data of adequate quantity and quality were collected from each of the survey units. The survey data for each survey unit showed:

1. The average residual radioactivity, which included the background distribution, was less than $0.8 \times$ DCGL, which allows for the dose contribution due to penetrating radiation from embedded piping.
2. Individual measurements, representing small areas of residual radioactivity that exceeded the DCGL, did not exceed the EMC DCGL.
3. Since no individual static measurements exceeded the DCGL, the average residual radioactivity passed the Sign statistical test.
4. Remediation was performed where it was ALARA to reduce the levels of residual radioactivity to below the concentrations necessary to meet the DCGLs.

These conditions satisfy the site release criteria established in the LTP and the radiological criteria for unrestricted use given in 10 CFR 20.1402 (see Section 1.3). Therefore, it is concluded that the Auxiliary Building interior is suitable for release to unrestricted use.

6. REFERENCES

- 6-1 Code of Federal Regulations, Title 10, Part 20.1402, "Radiological Criteria for Unrestricted Use."
- 6-2 Portland General Electric Company Topical Report PGE-1061, "Trojan Nuclear Plant Defueled Safety Analysis Report and License Termination Plan (PGE-1078)"
- 6-3 Portland General Electric Company Topical Report PGE-8010, "Trojan Nuclear Quality Assurance Program."
- 6-4 Portland General Electric Company, "Trojan Nuclear Plant Radiological Site Characterization Report," Revision 0.1, February 8, 1995.

APPENDIX A

SURVEY PREPARATION ACTIVITIES

This appendix provides a general description of decommissioning activities in the nature of a historical assessment that was used to determine the final survey classification of each of the areas within the Auxiliary Building. Detailed decommissioning information as well as a brief radiological history is found in the LTP, Section 3.

The Auxiliary Building interior was prepared for final survey by a series of decommissioning activities, including radiological characterization, dismantlement or demolition, remediation, and turnover to final survey. Radiological characterization data were gathered and analyzed. The results guided decisions regarding the need for, extent of, and most effective means of remediation. Areas were remediated as needed, and then systematically turned over for final survey. An assessment of the operation and radiological history established the initial classification of areas within the Auxiliary Building.

RADIOLOGICAL CHARACTERIZATION

Radiological characterization of the Auxiliary Building was completed in two phases. The initial radiological characterization was performed as Phase I. It is documented in the "Trojan Nuclear Plant Radiological Site Characterization Report," Revision 0.1, dated February 8, 1995. Phase II involved routine radiological surveys, referred to as operational surveys. These surveys were used to support dismantlement and remediation activities. Areas that were not, or could not be, surveyed during Phase I were surveyed during Phase II. Based on the surveys gathered as part of Phase II characterization, the predominant beta-gamma emitters on interior surfaces of the Auxiliary Building were found to be ^{60}Co and ^{137}Cs .

DISMANTLEMENT AND DEMOLITION ACTIVITIES

Equipment and components, as well as heavily contaminated concrete and masonry surfaces, were removed during decommissioning. Sections of the Elevation 45' pipe façade floor were also removed, exposing sub-floor sand areas. Segments of the Auxiliary/Fuel Building ventilation ductwork are the only major pieces of equipment remaining in the Auxiliary Building.

REMEDICATION ACTIVITIES

Remaining structural and equipment surfaces were remediated using a variety of techniques ranging from wiping to surface material removal. Removable surface radioactivity was remediated via simple means such as wiping down an area and vacuuming to collect dirt and loose radioactivity from recesses and corners. These were considered good practices and were typically applied. Concrete surfaces were remediated by scabbling. Abrasive blasting was used to remove fixed radioactivity from surfaces other than concrete.

Remediation levels were established for various types of remediation actions such as scrubbing, abrasive blasting, and scabbling. Remediation levels were developed using an unbiased analysis of remediation actions that could both avert future dose (a benefit to society) and cost money (a potential detriment to society). They are based on the methodology and assumptions given in the LTP, Section 2.4.2. Where the level of residual radioactivity exceeded the remediation level, the remediation action was taken. Conversely, if the concentration was less than the remediation level, the level of residual radioactivity was considered ALARA and the remediation action was not performed.

The remediation levels applied to the Auxiliary Building interior surfaces are given below.

Remediation Levels

| Remediation Action | Auxiliary Bldg DCGL (dpm/100 cm ²) |
|--------------------|--|
| Hand scrubbing | 7,000 |
| Abrasive blasting | 18,000 |
| Scabbling | 22,000 |

A single remediation level of 1,600 x DCGL was applied to the Elevation 45' pipe façade exposed sub-floor sand areas for material removal.

TURNOVER

A systematic approach was established for the turnover of the Auxiliary Building interior from the Decommissioning organization to the Final Survey organization. Dismantlement and remediation activities were completed in areas that could be isolated or controlled in such a manner as to minimize the potential for the reintroduction of contamination from ongoing decommissioning activities in adjacent or nearby areas. These work areas were then prepared for final survey data collection. The Auxiliary Building interior was divided into 27 work areas, listed in the following table, each of which was turned over separately.

Prior to turnover, a walkdown of the work area was performed when the final configuration was known, usually near or after the completion of dismantlement and remediation activities. The physical state of the area and the scope of work necessary to prepare it for final survey were assessed during the walkdown. Requirements for access, isolation, and control were also addressed during the walkdown. Support activities necessary to conduct the final survey, such as scaffolding, interference removal, and electrical tag-outs, were identified. Safety concerns such as access to confined spaces, high walls, and ceilings were also identified.

Tools, equipment, and materials not needed for final survey data collection were removed. Housekeeping and clean-up activities were completed. Scaffolding and other temporary equipment needed for final survey data collection were put in place. Administrative and physical controls were instituted to minimize the possibility of introducing radioactive material from ongoing decommissioning activities in adjacent or nearby areas. These measures included

personnel training, installation of barriers to control access to the area, installation of postings with access/egress requirements, and removing access to the area.

Turnover List

| Turnover Checklist Number | Work Area Description |
|---------------------------|--|
| 27 | Elev. 104' SFP & Aux/Fuel Bldg fan rooms walls & ceilings (not floors) |
| 31 | Elev. 93' north walls of load center area and stairway |
| 38 | Elev. 5' all areas |
| 39 | Elev. 45' pipe façade, pipe penetration area, boric acid blender room |
| 55 | Elev. 5' east & west RHR vertical pipe chase |
| 57 | Elev. 93' & 100' Containment personnel airlock vestibule |
| 58 | Elev. 61' radwaste evaporator room, waste gas surge tank room |
| 59 | Elev. 61' east & west waste gas compressor rooms |
| 60 | Elev. 45', 61', & 77' central vertical pipe chase |
| 61 | Elev. 25' all areas |
| 65 | Elev. 61' waste gas decay tank rooms and valve gallery |
| 67 | Elev. 61' horizontal pipe chase |
| 68 | Elev. 55' volume control tank room |
| 69 | Elev. 77' demineralizer valve galleries |
| 70 | Elev. 61' horizontal pipe chase |
| 78 | Elev. 45', 61', & 77' fuel transfer canal area |
| 81 | Elev. 77' filter pits |
| 83 | Elev. 45' treated waste monitor tank pump room |
| 85 | Elev. 77' & 85' horizontal pipe chase |
| 96 | Elev. 45' dirty waste monitor tank room & pump room |
| 106 | Elev. 77' filter valve gallery |
| 107 | Elev. 45' pipe façade pipe chase |
| 108 | Elev. 61' north & west corridors |
| 112 | Elev. 77' north & west corridors |
| 113 | Elev. 45' radiation sample room |
| 147 | Elev. 45' balance of areas |
| 149 | Auxiliary/Fuel Bldg HVAC |

HISTORICAL ASSESSMENT AND INITIAL CLASSIFICATION

Based on an assessment of relevant historical information, an initial classification was assigned to the structural surfaces and equipment remaining following the completion of dismantlement, demolition, and remediation activities. Information used in the assessment included the operational and radiological history of the area, the remediation activities performed in the area, and the radiological characterization data collected during decommissioning prior to turnover. Measurement results are summarized in Table 2-2.

APPENDIX B

SURVEY UNIT SUMMARY REPORTS – AUXILIARY BUILDING

| <u>Survey Unit ID Code</u> | <u>Page(s)</u> |
|----------------------------|---------------------|
| S05005B..... | B-2 through B-5 |
| S05005C..... | B-6 through B-9 |
| S05005D..... | B-10 through B-13 |
| S05005E..... | B-14 through B-17 |
| S05005F..... | B-18 through B-21 |
| S05005G..... | B-22 through B-25 |
| S05005H..... | B-26 through B-29 |
| S05005J..... | B-30 through B-34 |
| S05005K..... | B-35 through B-38 |
| S05005L..... | B-39 through B-43 |
| S05005M..... | B-44 through B-48 |
| S05005N..... | B-49 through B-52 |
| S05005P..... | B-53 through B-56 |
| S05005Q..... | B-57 through B-61 |
| S05005R..... | B-62 through B-65 |
| S05005S..... | B-66 through B-73 |
| S05011B..... | B-74 through B-77 |
| S05011C..... | B-78 through B-81 |
| S05011D..... | B-82 through B-85 |
| S05011L..... | B-86 through B-90 |
| S05011M..... | B-91 through B-95 |
| S05011P..... | B-96 through B-99 |
| S05015E..... | B-100 through B-103 |
| S05015Q..... | B-104 through B-108 |
| S05017A..... | B-109 through B-112 |
| S05017B..... | B-113 through B-116 |
| S05017C..... | B-117 through B-120 |
| S05023A..... | B-121 through B-124 |
| S05023B..... | B-125 through B-128 |
| S05023F..... | B-129 through B-132 |
| S05023G..... | B-133 through B-136 |
| S05023J..... | B-137 through B-140 |
| S05023K..... | B-141 through B-144 |
| S05023S..... | B-145 through B-148 |
| S05023T..... | B-149 through B-152 |
| S05025U..... | B-153 through B-156 |
| S05026N..... | B-157 through B-160 |
| S05043U..... | B-161 through B-164 |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05005B

Classification: Class 1

Survey Unit Name: AB 5' Elevation -

Size (m²): 51

"B" Safety Injection Pump Room Floor and Lower Walls

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|--------------------------|---------------|-------------------------|------------|-----|-----|
| 1 | 33 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 7.225e+002
 Maximum Value : 2.699e+003
 Range : 1.977e+003
 Median : 9.284e+002
 Std. Deviation : 6.328e+002
 Mean : 1.350e+003
 95% UCL : 1.537e+003

Measurement Values

| Location | Value | Location | Value |
|----------|------------|----------|------------|
| 000001 | 2.042e+003 | 000018 | 7.487e+002 |
| 000002 | 2.010e+003 | 000019 | 8.685e+002 |
| 000003 | 2.138e+003 | 000020 | 8.086e+002 |
| 000004 | 1.971e+003 | 000021 | 8.348e+002 |
| 000005 | 1.882e+003 | 000022 | 8.685e+002 |
| 000006 | 2.023e+003 | 000023 | 8.311e+002 |
| 000007 | 1.971e+003 | 000024 | 9.060e+002 |
| 000008 | 2.106e+003 | 000025 | 8.236e+002 |
| 000009 | 2.093e+003 | 000026 | 1.153e+003 |
| 000010 | 2.010e+003 | 000027 | 7.749e+002 |
| 000011 | 7.225e+002 | 000028 | 2.475e+003 |
| 000012 | 9.209e+002 | 000029 | 8.872e+002 |
| 000013 | 8.723e+002 | 000030 | 2.699e+003 |
| 000014 | 8.049e+002 | 000031 | 9.546e+002 |
| 000015 | 8.311e+002 | 000032 | 1.849e+003 |
| 000016 | 7.974e+002 | 000033 | 9.284e+002 |
| 000017 | 9.546e+002 | | |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05005B

Classification: Class 1

Survey Unit Name: AB 5' Elevation –

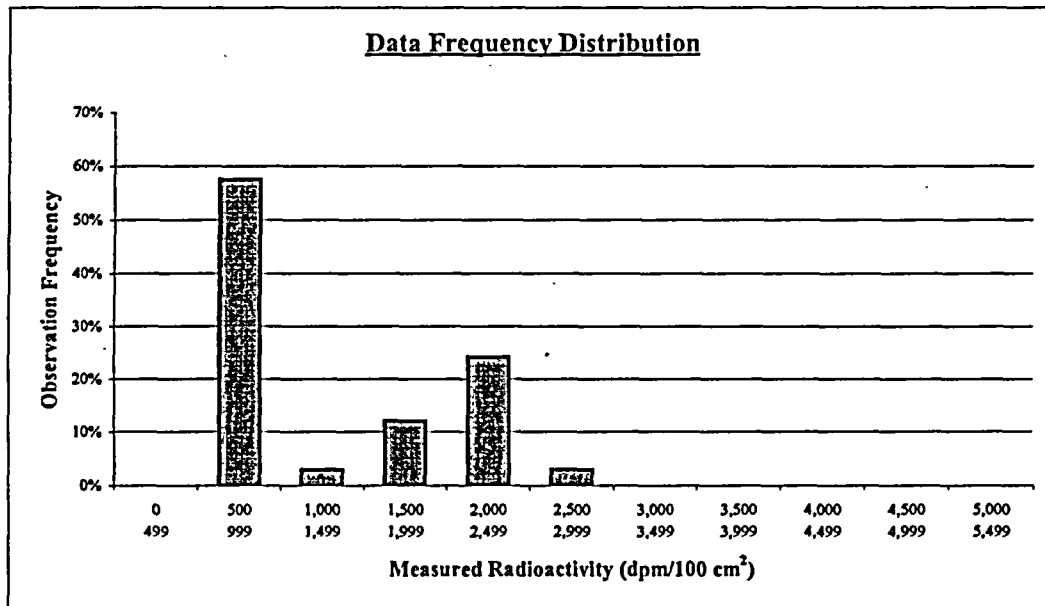
Size (m²): 51

“B” Safety Injection Pump Room Floor and Lower Walls

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | | Statistical Quantities | |
|-------------------------|------------------|---------------------|-------------------|------------------------|-------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? | Range: | 1,976 |
| Range | 1,976 | 3,164 | Pass | Median: | 928 |
| Median | 0.668 | 0.500 | See comment below | Mean: | 1,350 |
| Mean | 1,350 | 6,000 | Pass | Std Dev: | 633 |
| Std Dev | 633 | 1,500 | Pass | Minimum: | 723 |
| | | | | Maximum: | 2,699 |
| | | | | DCGL: | 7,500 |

All data less than DCGL; Sign statistical test not required.



| Plot Parameters | | Interval | High End | Low End | Number of Observations | Observation Frequency |
|---------------------|-------|----------|----------|---------|------------------------|-----------------------|
| # of measurements: | 33 | 1 | 499 | 0 | 0 | 0% |
| # of intervals: | 11 | 2 | 999 | 500 | 19 | 58% |
| Interval increment: | 500 | 3 | 1,499 | 1,000 | 1 | 3% |
| Minimum: | 0 | 4 | 1,999 | 1,500 | 4 | 12% |
| Maximum: | 5,499 | 5 | 2,499 | 2,000 | 8 | 24% |
| | | 6 | 2,999 | 2,500 | 1 | 3% |
| | | 7 | 3,499 | 3,000 | 0 | 0% |
| | | 8 | 3,999 | 3,500 | 0 | 0% |
| | | 9 | 4,499 | 4,000 | 0 | 0% |
| | | 10 | 4,999 | 4,500 | 0 | 0% |
| | | 11 | 5,499 | 5,000 | 0 | 0% |
| Total: | | | | | 33 | 100% |

Comment:

The data set contains values from both smooth and scabbled concrete surfaces, resulting in an expected bimodal distribution, due to different detector efficiency factors for the 2 geometries.

The test failure does not represent an invalid data set.

This statistical comparison is not meaningful for an expected bimodal distribution. All measurement values are valid and accepted.

FINAL SURVEY RESULTS SUMMARY

| | |
|--|---------------------------------|
| Survey Unit ID Code: S05005B | Classification: Class 1 |
| Survey Unit Name: AB 5' Elevation – "B" Safety Injection Pump Room Floor and Lower Walls | Size (m²): 51 |

Judgmental and Miscellaneous Measurement Data

| | |
|--|-----------------------------------|
| Measurement Type: Surface Scanning Beta | Scan Coverage (%): 100 |
| Measurement Units: dpm/100cm ² | Investigation Level: 7,500 |
| Minimum Value: 872 | Maximum Value: 11,140 |

| | |
|--|-----------------------------------|
| Measurement Type: Removable Beta | Number of Measurements: 33 |
| Measurement Units: dpm/100cm ² | Investigation Level: 750 |
| Minimum Value: 4 | Maximum Value: 27 |

Discussion of Anomalous Measurement Data

Investigation Summary

Reason for Investigation: Six scan measurements exceeded the investigation level.

Elevated Measurement Comparison (EMC):

| | |
|---|------------------------|
| DCGL (Investigation Level): | 7,500 |
| Measurement Units: | dpm/100cm ² |
| Maximum Value: | 11,144 |
| Size of Area Exceeding DCGL (m²): | 0.186 |
| Size of Survey Unit (m²): | 51 |
| Survey Unit Area >DCGL (%): | 0.36 |
| EMC Value: | 36,750 |

Action Taken: Corrected measurement values for scan locations 056, 063, 064, & 065 per guidance in memo FS-018-03; used similar method to correct value for scan location 024. Replaced original scan results in SDMS with these corrected results. Applied EMC data processing to elevated scan location 056. Deleted measurement for scan location 062.

Basis for Action Taken: Technical basis memorandum FS-018-03 provides guidance for correcting SDMS determined scan results for locations that exceed the investigation level by subtracting instrument background from the field results. Regarding scan location 062, the surveyors scanned inside of a floor drain bowl that belongs to an embedded piping survey unit.

FINAL SURVEY RESULTS SUMMARY

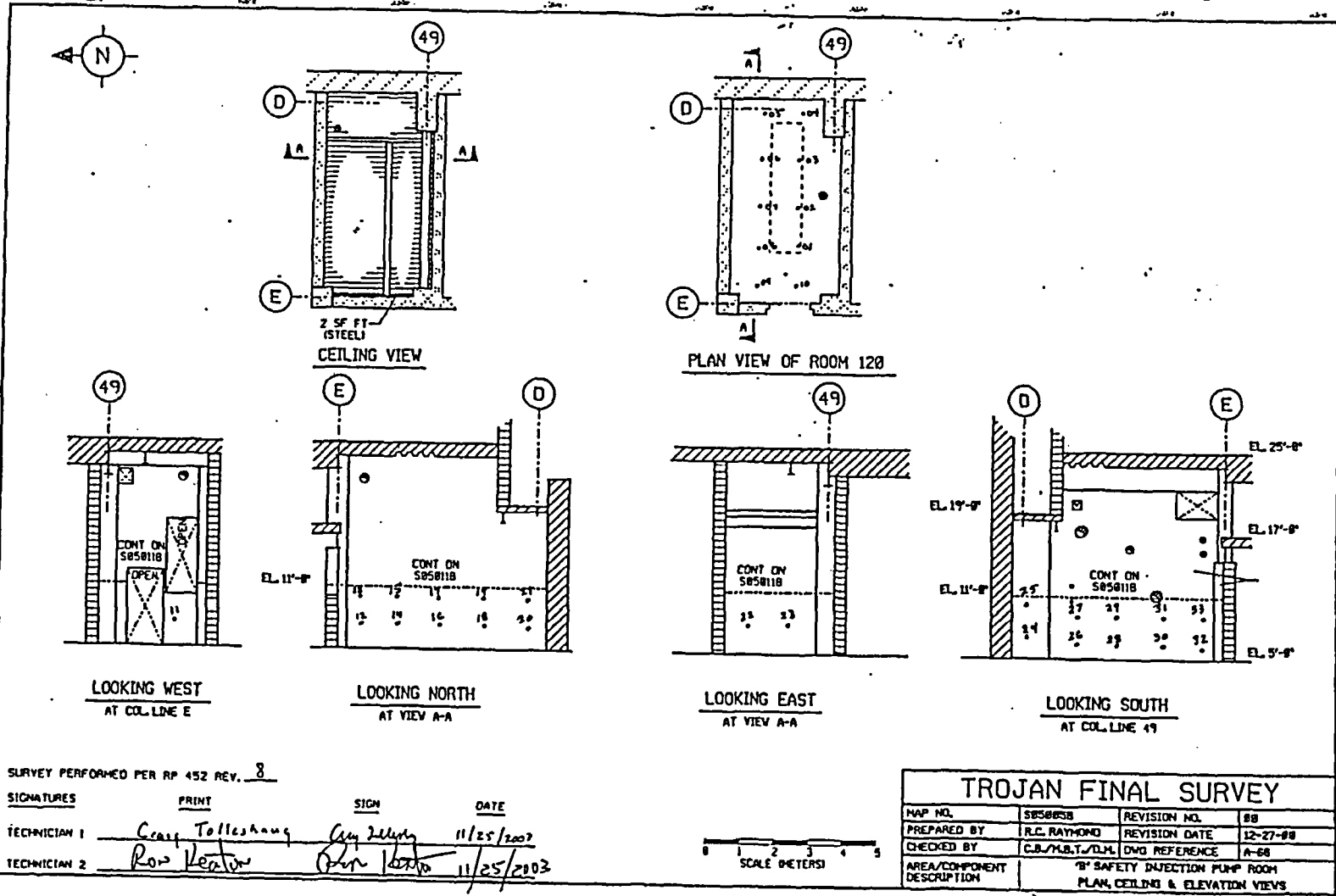
Survey Unit ID Code: S05005B

Survey Unit Name: AB 5' Elevation - "B" Safety Injection Pump Room Floor and Lower Walls

Classification: Class 1

Size (m²): 51

Static Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05005C

Classification: Class 1

Survey Unit Name: AB 5' Elevation -

Size (m²): 56

"A" Safety Injection Pump Room Floor and Lower Walls

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|-----------------------|------------|-------------------------|------------|-----|-----|
| 1 | 30 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 6.341e+002
 Maximum Value : 2.047e+003
 Range : 1.413e+003
 Median : 8.455e+002
 Std. Deviation : 5.988e+002
 Mean : 1.267e+003
 95% UCL : 1.453e+003

Measurement Values

| Location | Value | Location | Value |
|----------|------------|----------|------------|
| 000001 | 7.976e+002 | 000018 | 8.216e+002 |
| 000002 | 7.937e+002 | 000019 | 1.954e+003 |
| 000003 | 8.495e+002 | 000020 | 1.934e+003 |
| 000004 | 6.341e+002 | 000021 | 1.961e+003 |
| 000005 | 7.817e+002 | 000022 | 1.974e+003 |
| 000006 | 6.700e+002 | 000023 | 2.034e+003 |
| 000007 | 8.016e+002 | 000024 | 1.934e+003 |
| 000008 | 7.657e+002 | 000025 | 1.981e+003 |
| 000009 | 7.657e+002 | 000026 | 1.907e+003 |
| 000010 | 7.418e+002 | 000027 | 2.034e+003 |
| 000011 | 7.777e+002 | 000028 | 2.041e+003 |
| 000012 | 8.056e+002 | 000029 | 2.021e+003 |
| 000013 | 7.817e+002 | 000030 | 2.047e+003 |
| 000014 | 8.774e+002 | | |
| 000015 | 8.375e+002 | | |
| 000016 | 8.415e+002 | | |
| 000017 | 8.495e+002 | | |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05005C

Classification: Class 1

Survey Unit Name: AB 5' Elevation –

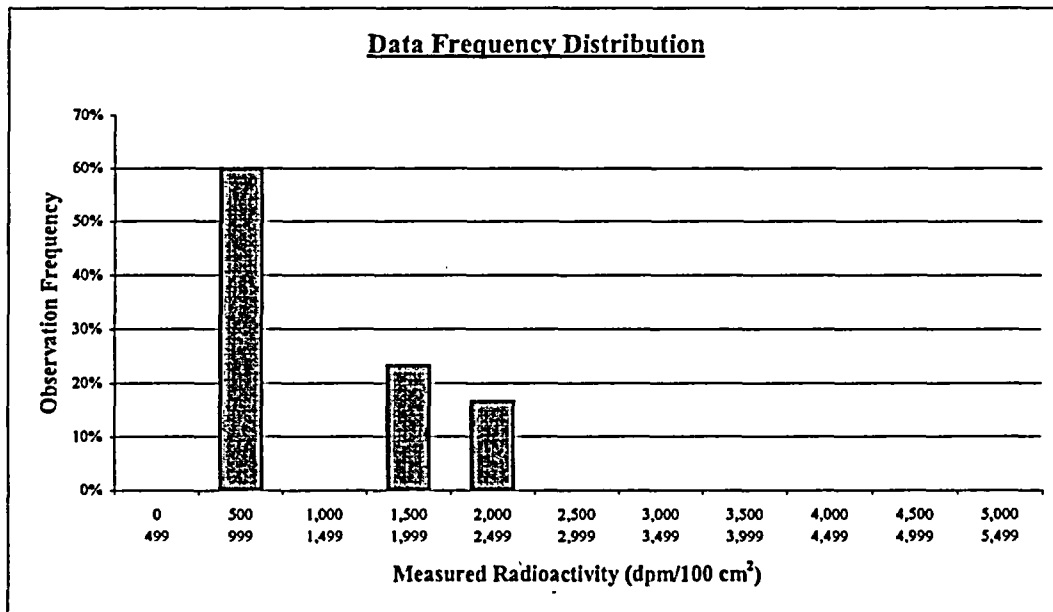
Size (m²): 56

“A” Safety Injection Pump Room Floor and Lower Walls

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | | Statistical Quantities | |
|-------------------------|------------------|---------------------|-------------------|------------------------|-------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? | Range: | 1,413 |
| Range | 1,413 | 2,993 | Pass | Median: | 846 |
| Median | 0.704 | 0.500 | See comment below | Mean: | 1,267 |
| Mean | 1,267 | 6,000 | Pass | Std Dev: | 599 |
| Std Dev | 599 | 1,500 | Pass | Minimum: | 634 |
| | | | | Maximum: | 2,047 |
| | | | | DCGL: | 7,500 |

All data less than DCGL; Sign statistical test not required.



| Plot Parameters | Interval | High End | Low End | Number of Observations | Observation Frequency |
|-------------------------|---------------|----------|---------|------------------------|-----------------------|
| # of measurements: 30 | 1 | 499 | 0 | 0 | 0% |
| # of intervals: 11 | 2 | 999 | 500 | 18 | 60% |
| Interval increment: 500 | 3 | 1,499 | 1,000 | 0 | 0% |
| Minimum: 0 | 4 | 1,999 | 1,500 | 7 | 23% |
| Maximum: 5,499 | 5 | 2,499 | 2,000 | 5 | 17% |
| | 6 | 2,999 | 2,500 | 0 | 0% |
| | 7 | 3,499 | 3,000 | 0 | 0% |
| | 8 | 3,999 | 3,500 | 0 | 0% |
| | 9 | 4,499 | 4,000 | 0 | 0% |
| | 10 | 4,999 | 4,500 | 0 | 0% |
| | 11 | 5,499 | 5,000 | 0 | 0% |
| | Total: | | | 30 | 100% |

Comment:

The data set contains values from both smooth and scabbled concrete surfaces, resulting in an expected bimodal distribution, due to different detector efficiency factors for the 2 geometries.

The test failure does not represent an invalid data set.

This statistical comparison is not meaningful for an expected bimodal distribution. All measurement values are valid and accepted.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05005C **Classification:** Class 1
Survey Unit Name: AB 5' Elevation – **Size (m²):** 56
"A" Safety Injection Pump Room Floor and Lower Walls

Judgmental and Miscellaneous Measurement Data

Measurement Type: Surface Scanning Beta **Scan Coverage (%):** 100
Measurement Units: dpm/100cm² **Investigation Level:** 7,500
Minimum Value: 912 **Maximum Value:** 14,540

Measurement Type: Removable Beta **Number of Measurements:** 30
Measurement Units: dpm/100cm² **Investigation Level:** 750
Minimum Value: 3 **Maximum Value:** 19

Discussion of Anomalous Measurement Data

Investigation Summary

Reason for Investigation: Three scan measurements exceeded the investigation level.

Elevated Measurement Comparison (EMC):

| | |
|---|------------------------|
| DCGL (Investigation Level): | 7,500 |
| Measurement Units: | dpm/100cm ² |
| Maximum Value: | 14,537 |
| Size of Area Exceeding DCGL (m²): | 0.01 |
| Size of Survey Unit (m²): | 56 |
| Survey Unit Area >DCGL (%): | 0.02 |
| EMC Value: | 36,750 |

Action Taken: Corrected measurement values for scan locations 054 & 056 per guidance in memo FS-018-03. Replaced original scan results in SDMS with these corrected results. Applied EMC data processing to elevated scan location 054. Deleted measurement for scan location 057.

Basis for Action Taken: Technical basis memorandum FS-018-03 provides guidance for correcting SDMS determined scan results for locations that exceed the investigation level by subtracting instrument background from the field results. Regarding scan location 057, the surveyors scanned inside of a floor drain bowl that belongs to an embedded piping survey unit.

FINAL SURVEY RESULTS SUMMARY

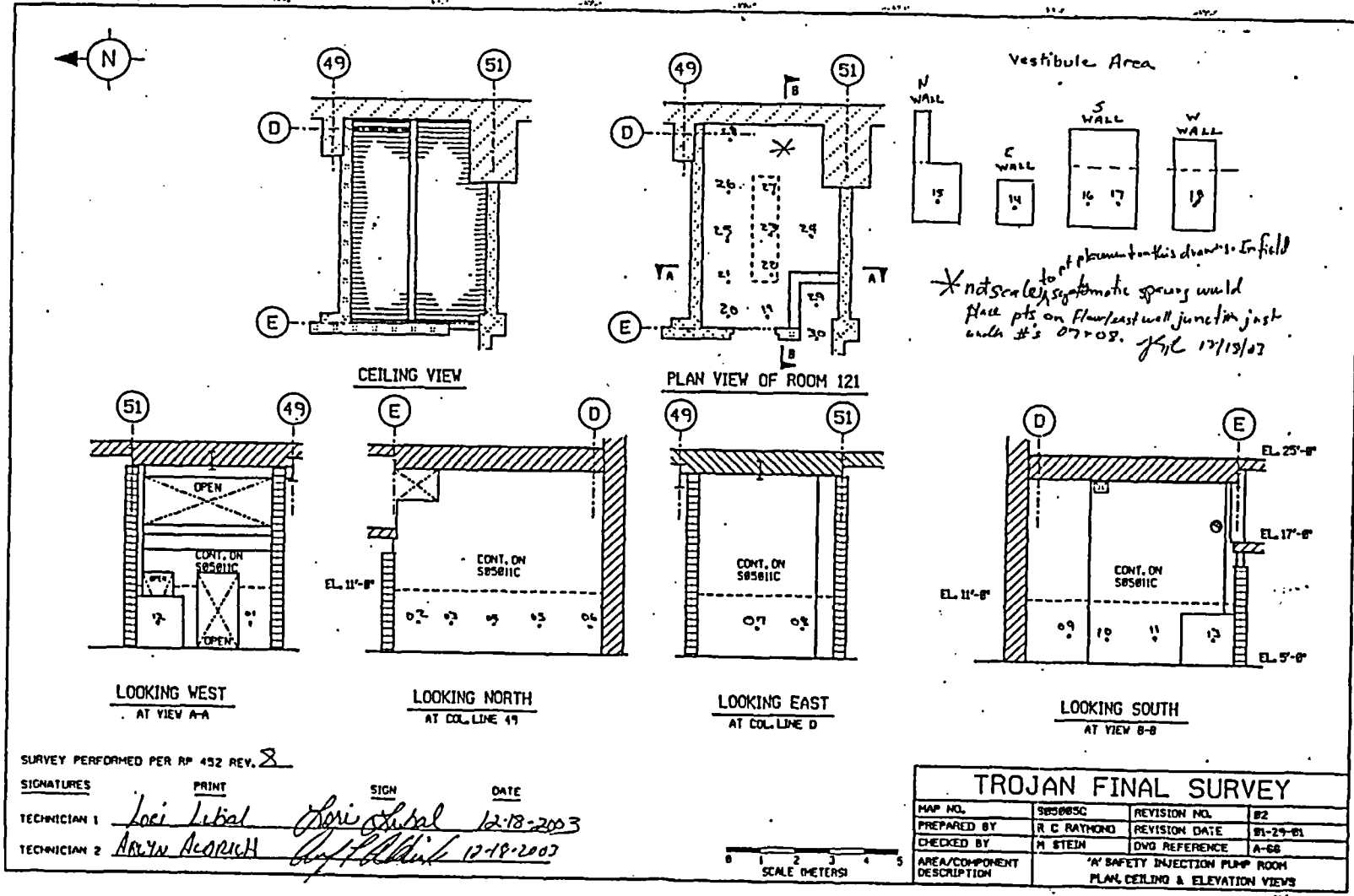
Survey Unit ID Code: S05005C

Classification: Class 1

Survey Unit Name: AB 5' Elevation - "A" Safety Injection Pump Room Floor and Lower Walls

Size (m²): 56

Static Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05005D

Classification: Class 1

Survey Unit Name: AB 5' Elevation -

Size (m²): 87

"B" Containment Spray Pump Room Floor and Walls

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|--------------------------|---------------|-------------------------|------------|-----|-----|
| 1 | 42 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 6.341e+002
 Maximum Value : 2.234e+003
 Range : 1.600e+003
 Median : 7.780e+002
 Std. Deviation : 5.665e+002
 Mean : 1.075e+003
 95% UCL : 1.222e+003

Measurement Values

| Location | Value | Location | Value | Location | Value |
|----------|------------|----------|------------|----------|------------|
| 000001 | 7.378e+002 | 000018 | 7.697e+002 | 000035 | 7.101e+002 |
| 000002 | 6.860e+002 | 000019 | 7.697e+002 | 000036 | 7.101e+002 |
| 000003 | 7.259e+002 | 000020 | 6.341e+002 | 000037 | 8.468e+002 |
| 000004 | 8.136e+002 | 000021 | 2.094e+003 | 000038 | 6.797e+002 |
| 000005 | 6.421e+002 | 000022 | 2.234e+003 | 000039 | 6.418e+002 |
| 000006 | 7.697e+002 | 000023 | 1.781e+003 | 000040 | 6.418e+002 |
| 000007 | 7.219e+002 | 000024 | 2.021e+003 | 000041 | 6.759e+002 |
| 000008 | 8.096e+002 | 000025 | 2.188e+003 | 000042 | 8.810e+002 |
| 000009 | 7.259e+002 | 000026 | 1.961e+003 | | |
| 000010 | 1.157e+003 | 000027 | 1.941e+003 | | |
| 000011 | 7.737e+002 | 000028 | 2.214e+003 | | |
| 000012 | 7.657e+002 | 000029 | 2.074e+003 | | |
| 000013 | 1.157e+003 | 000030 | 2.014e+003 | | |
| 000014 | 7.578e+002 | 000031 | 7.823e+002 | | |
| 000015 | 8.256e+002 | 000032 | 6.873e+002 | | |
| 000016 | 7.099e+002 | 000033 | 8.202e+002 | | |
| 000017 | 7.897e+002 | 000034 | 8.012e+002 | | |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05005D

Classification: Class 1

Survey Unit Name: AB 5' Elevation -

Size (m²): 87

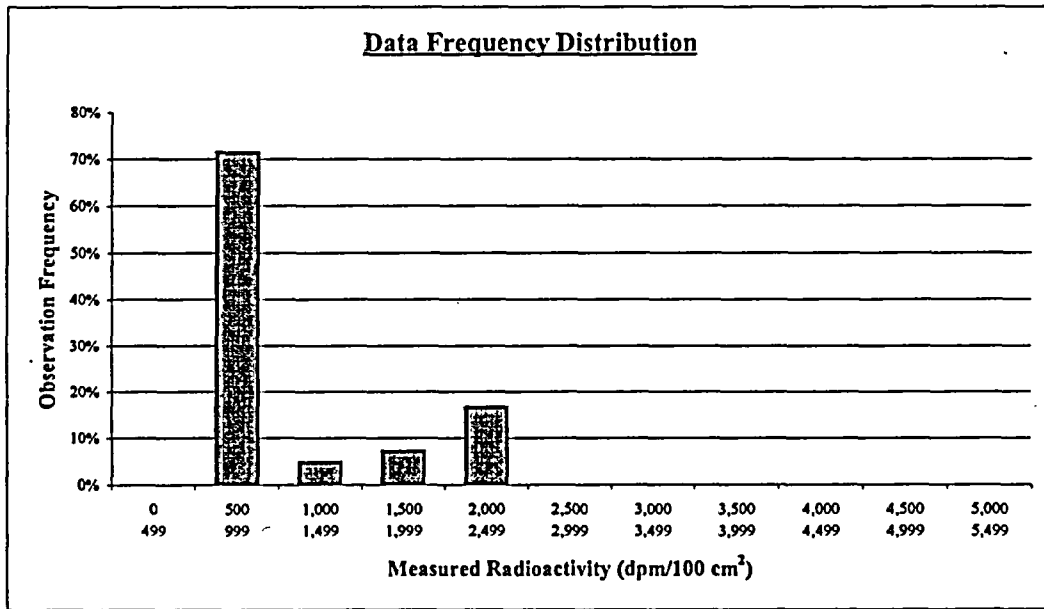
"B" Containment Spray Pump Room Floor and Walls

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | |
|-------------------------|------------------|---------------------|-------------------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? |
| Range | 1,600 | 2,832 | Pass |
| Median | 0.524 | 0.500 | See comment below |
| Mean | 1,075 | 6,000 | Pass |
| Std Dev | 566 | 1,500 | Pass |

| Statistical Quantities | |
|------------------------|-------|
| Range: | 1,600 |
| Median: | 778 |
| Mean: | 1,075 |
| Std Dev: | 566 |
| Minimum: | 634 |
| Maximum: | 2,234 |
| DCGL: | 7,500 |

All data less than DCGL; Sign statistical test not required.



| Plot Parameters | |
|---------------------|-------|
| # of measurements: | 42 |
| # of intervals: | 11 |
| Interval increment: | 500 |
| Minimum: | 0 |
| Maximum: | 5,499 |

| Interval | High End | Low End | Number of Observations | Observation Frequency |
|---------------|----------|---------|------------------------|-----------------------|
| 1 | 499 | 0 | 0 | 0% |
| 2 | 999 | 500 | 30 | 71% |
| 3 | 1,499 | 1,000 | 2 | 5% |
| 4 | 1,999 | 1,500 | 3 | 7% |
| 5 | 2,499 | 2,000 | 7 | 17% |
| 6 | 2,999 | 2,500 | 0 | 0% |
| 7 | 3,499 | 3,000 | 0 | 0% |
| 8 | 3,999 | 3,500 | 0 | 0% |
| 9 | 4,499 | 4,000 | 0 | 0% |
| 10 | 4,999 | 4,500 | 0 | 0% |
| 11 | 5,499 | 5,000 | 0 | 0% |
| Total: | | | 42 | 100% |

Comment:

The data set contains values from both smooth and scabbled concrete surfaces, resulting in an expected bimodal distribution, due to different detector efficiency factors for the 2 geometries.

The test failure does not represent an invalid data set.

This statistical comparison is not meaningful for an expected bimodal distribution. All measurement values are valid and accepted.

FINAL SURVEY RESULTS SUMMARY

| | |
|---|---------------------------------|
| Survey Unit ID Code: S05005D | Classification: Class 1 |
| Survey Unit Name: AB 5' Elevation – "B" Containment Spray Pump Room Floor and Walls | Size (m²): 87 |

Judgmental and Miscellaneous Measurement Data

| | |
|--|-----------------------------------|
| Measurement Type: Surface Scanning Beta | Scan Coverage (%): 100 |
| Measurement Units: dpm/100cm ² | Investigation Level: 7,500 |
| Minimum Value: 855 | Maximum Value: 6,623 |

| | |
|--|-----------------------------------|
| Measurement Type: Removable Beta | Number of Measurements: 42 |
| Measurement Units: dpm/100cm ² | Investigation Level: 750 |
| Minimum Value: 3 | Maximum Value: 18 |

Discussion of Anomalous Measurement Data

Investigation Summary

Reason for Investigation: Three scan measurements exceeded the investigation level.

Elevated Measurement Comparison (EMC):

| | |
|---|------------------------|
| DCGL (Investigation Level): | 7,500 |
| Measurement Units: | dpm/100cm ² |
| Maximum Value: | 10,570 |
| Size of Area Exceeding DCGL (m²): | N/A |
| Size of Survey Unit (m²): | N/A |
| Survey Unit Area >DCGL (%): | N/A |
| EMC Value: | N/A |

Action Taken: Corrected measurement values for scan locations per guidance in memo FS-018-03. Replaced original scan results in SDMS with these results, all of which corrected to less than the investigation level.

Basis for Action Taken: Technical basis memorandum FS-018-03 provides guidance for correcting SDMS determined scan results for locations that exceed the investigation level by subtracting instrument background from the field results.

FINAL SURVEY RESULTS SUMMARY

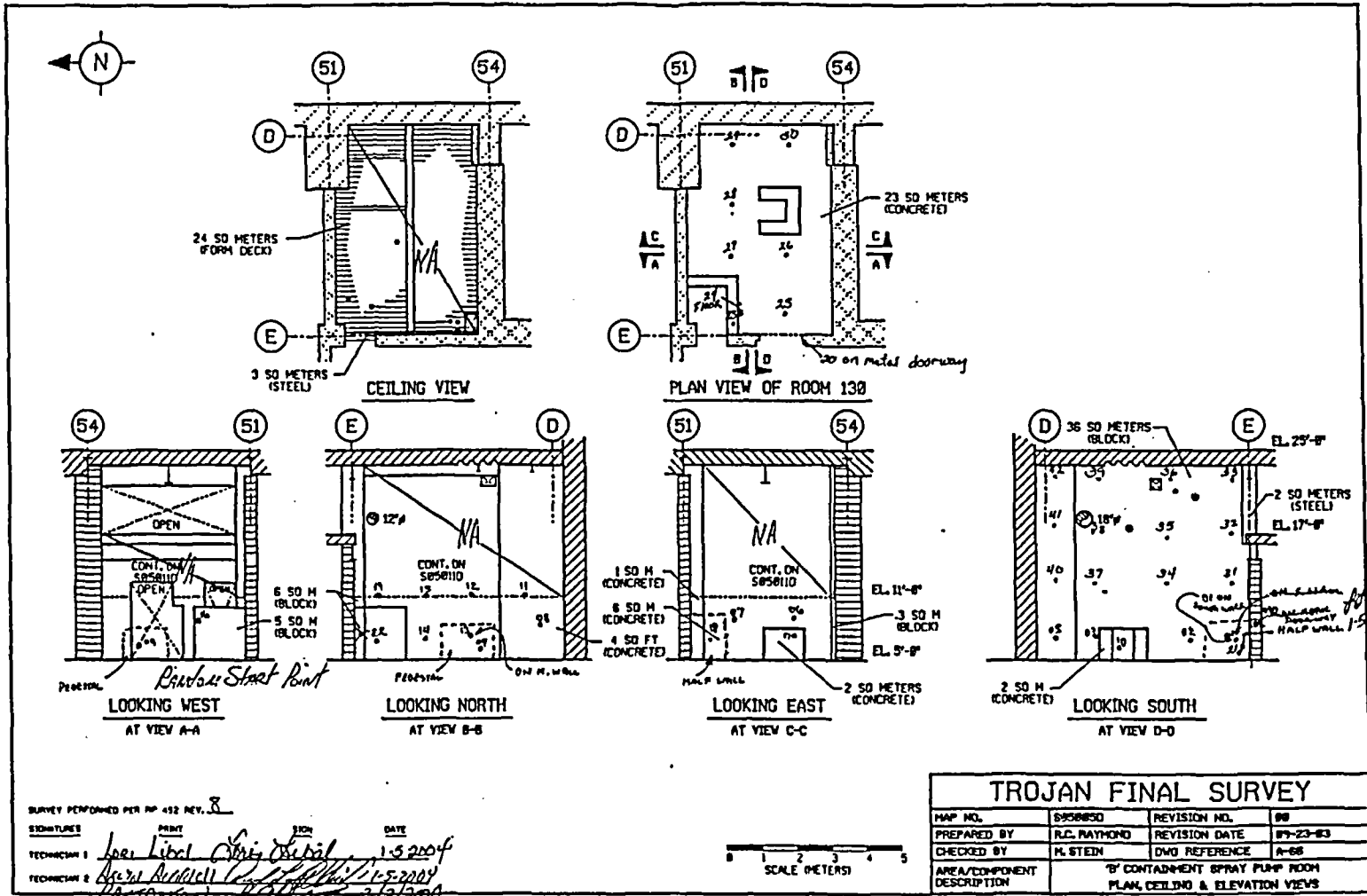
Survey Unit ID Code: S05005D

Survey Unit Name: AB 5' Elevation - "B" Containment Spray Pump Room Floor and Walls

Classification: Class 1

Size (m²): 87

Static Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05005E

Classification: Class 1

Survey Unit Name: AB 5' Elevation -

Size (m²): 85

"B" RHR Heat Exchanger Room Floor and Lower Walls

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|--------------------------|---------------|-------------------------|------------|-----|-----|
| 1 | 31 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 7.595e+002
 Maximum Value : 4.739e+003
 Range : 3.980e+003
 Median : 1.010e+003
 Std. Deviation : 9.156e+002
 Mean : 1.387e+003
 95% UCL : 1.666e+003

Measurement Values

| Location | Value | Location | Value |
|----------|------------|----------|------------|
| 000001 | 8.354e+002 | 000018 | 9.949e+002 |
| 000002 | 8.278e+002 | 000019 | 9.076e+002 |
| 000003 | 1.059e+003 | 000020 | 1.124e+003 |
| 000004 | 8.240e+002 | 000021 | 8.430e+002 |
| 000005 | 7.823e+002 | 000022 | 1.044e+003 |
| 000006 | 1.056e+003 | 000023 | 9.835e+002 |
| 000007 | 7.595e+002 | 000024 | 1.173e+003 |
| 000008 | 8.620e+002 | 000025 | 2.051e+003 |
| 000009 | 4.739e+003 | 000026 | 1.994e+003 |
| 000010 | 8.924e+002 | 000027 | 2.114e+003 |
| 000011 | 8.012e+002 | 000028 | 2.241e+003 |
| 000012 | 1.105e+003 | 000029 | 2.279e+003 |
| 000013 | 8.544e+002 | 000030 | 2.102e+003 |
| 000014 | 8.772e+002 | 000031 | 3.765e+003 |
| 000015 | 9.038e+002 | | |
| 000016 | 1.189e+003 | | |
| 000017 | 1.010e+003 | | |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05005E

Classification: Class 1

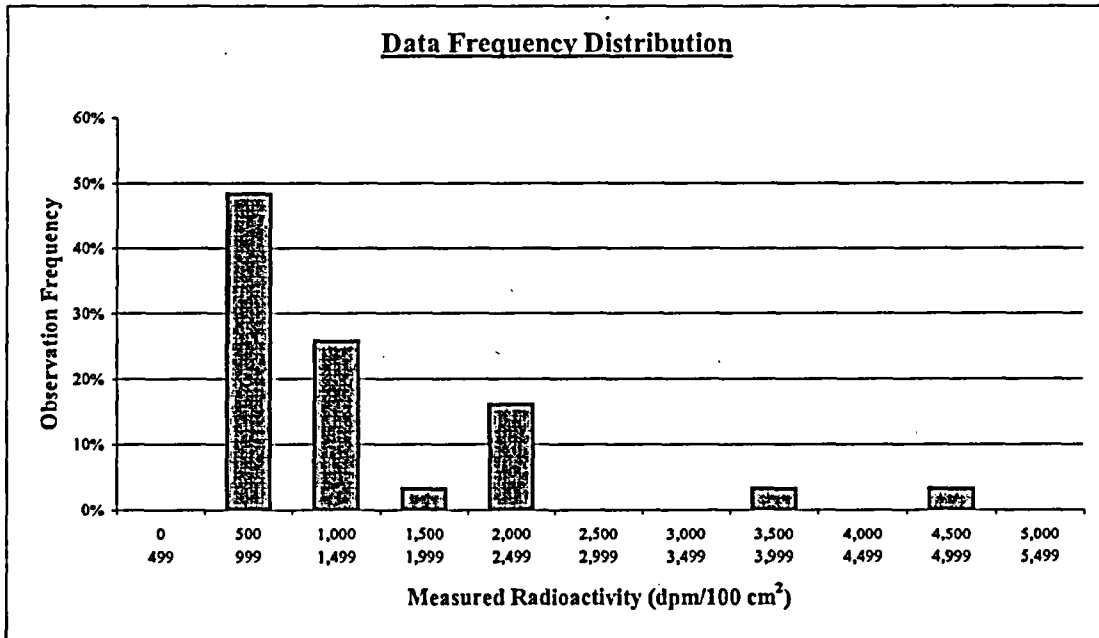
Survey Unit Name: AB 5' Elevation -

Size (m²): 85

"B" RHR Heat Exchanger Room Floor and Lower Walls

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | | Statistical Quantities | |
|--|------------------|---------------------|-------------|------------------------|-------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? | Range: | 3,979 |
| Range | 3,979 | 4,578 | Pass | Median: | 1,010 |
| Median | 0.412 | 0.500 | Pass | Mean: | 1,387 |
| Mean | 1,387 | 6,000 | Pass | Std Dev: | 916 |
| Std Dev | 916 | 1,500 | Pass | Minimum: | 760 |
| All data less than DCGL; Sign statistical test not required. | | | | Maximum: | 4,739 |
| | | | | DCGL: | 7,500 |



| Plot Parameters | | Interval | High End | Low End | Number of Observations | Observation Frequency |
|---------------------|-------|----------|----------|---------|------------------------|-----------------------|
| # of measurements: | 31 | 1 | 499 | 0 | 0 | 0% |
| # of intervals: | 11 | 2 | 999 | 500 | 15 | 48% |
| Interval increment: | 500 | 3 | 1,499 | 1,000 | 8 | 26% |
| Minimum: | 0 | 4 | 1,999 | 1,500 | 1 | 3% |
| Maximum: | 5,499 | 5 | 2,499 | 2,000 | 5 | 16% |
| | | 6 | 2,999 | 2,500 | 0 | 0% |
| | | 7 | 3,499 | 3,000 | 0 | 0% |
| | | 8 | 3,999 | 3,500 | 1 | 3% |
| | | 9 | 4,499 | 4,000 | 0 | 0% |
| | | 10 | 4,999 | 4,500 | 1 | 3% |
| | | 11 | 5,499 | 5,000 | 0 | 0% |
| Total: | | | | | 31 | 100% |

Comment:
The data set contains values from both smooth and scabbled concrete surfaces, resulting in an expected right skewed distribution, due to different detector efficiency factors for the two geometries.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05005E **Classification:** Class 1
Survey Unit Name: AB 5' Elevation – **Size (m²):** 85
"B" RHR Heat Exchanger Room Floor and Lower Walls

Judgmental and Miscellaneous Measurement Data

Measurement Type: Surface Scanning Beta **Scan Coverage (%):** 100
Measurement Units: dpm/100cm² **Investigation Level:** 7,500
Minimum Value: 1,023 **Maximum Value:** 18,280

Measurement Type: Removable Beta **Number of Measurements:** 31
Measurement Units: dpm/100cm² **Investigation Level:** 750
Minimum Value: 3 **Maximum Value:** 22

Discussion of Anomalous Measurement Data

Investigation Summary

Reason for Investigation: Twelve scan measurements exceeded the investigation level.

Elevated Measurement Comparison (EMC):

| | |
|---|------------------------|
| DCGL (Investigation Level): | 7,500 |
| Measurement Units: | dpm/100cm ² |
| Maximum Value: | 18,278 |
| Size of Area Exceeding DCGL (m²): | 0.2 |
| Size of Survey Unit (m²): | 85 |
| Survey Unit Area >DCGL (%): | 0.24 |
| EMC Value: | 36,750 |

Action Taken: Corrected measurement values for scan locations per guidance in memo FS-018-03; used similar method for elevated scan measurements obtained with a 43-68 gas flow proportional detector. Replaced original scan results in SDMS with these corrected results. Applied EMC data processing to elevated scan locations 046, 051, 059, 062, 069, & 071.

Basis for Action Taken: Technical basis memorandum FS-018-03 provides guidance for correcting SDMS determined scan results for locations that exceed the investigation level by subtracting instrument background from the field results.

FINAL SURVEY RESULTS SUMMARY

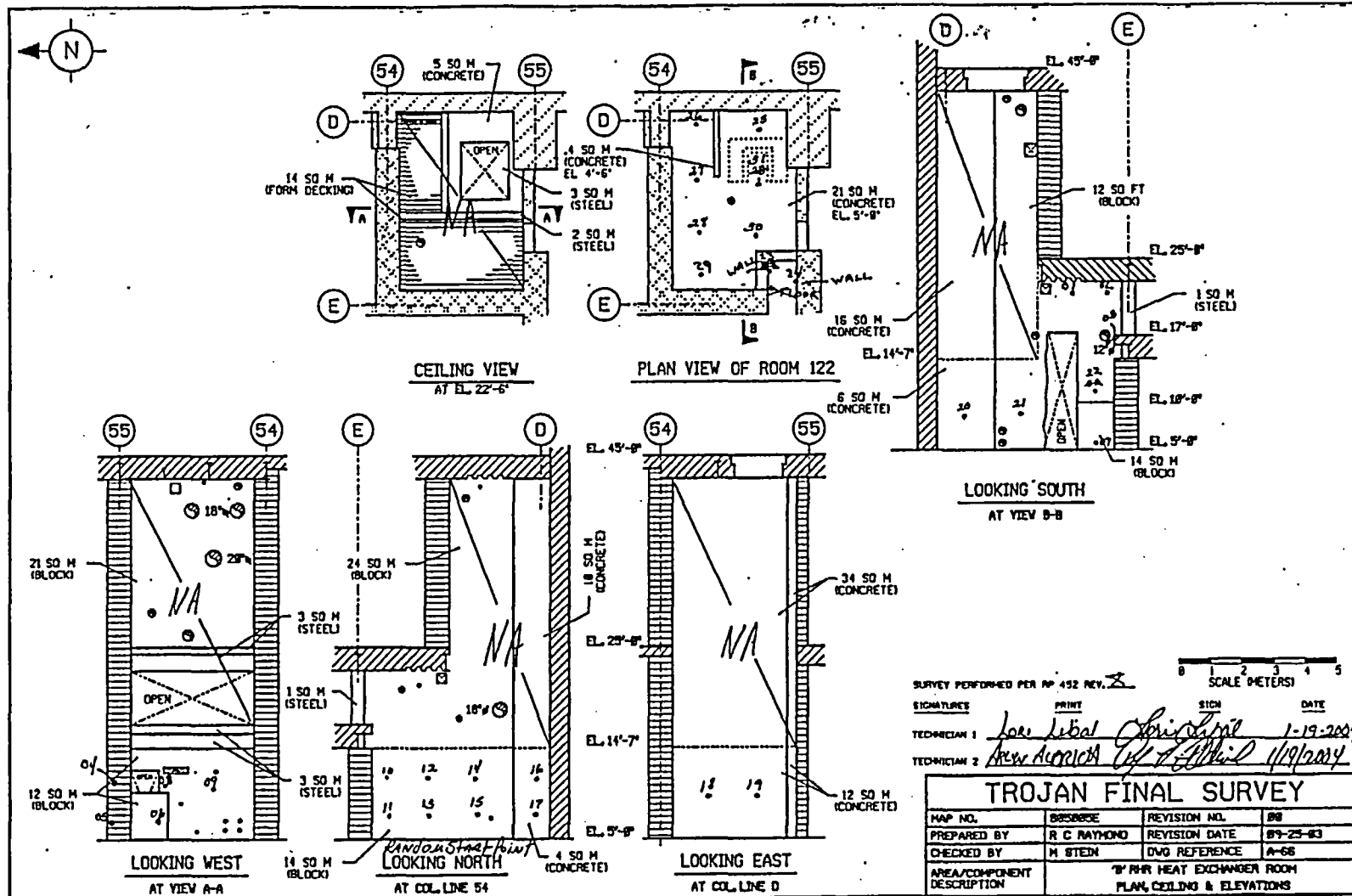
Survey Unit ID Code: S05005E

Survey Unit Name: AB 5' Elevation - "B" RHR Heat Exchanger Room Floor/Lower Walls

Classification: Class 1

Size (m²): 85

Static Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05005F
 Survey Unit Name: AB 5' Elevation -
 "B" RHR Pump Room Floor and Walls

Classification: Class 1
 Size (m²): 189

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|-----------------------|------------|-------------------------|------------|-----|-----|
| 1 | 36 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 1.119e+003
 Maximum Value : 2.518e+003
 Range : 1.399e+003
 Median : 1.682e+003
 Std. Deviation : 3.809e+002
 Mean : 1.735e+003
 95% UCL : 1.842e+003

Measurement Values

| Location | Value | Location | Value | Location | Value |
|----------|------------|----------|------------|----------|------------|
| 000001 | 1.340e+003 | 000018 | 1.900e+003 | 000035 | 2.010e+003 |
| 000002 | 1.529e+003 | 000019 | 1.906e+003 | 000036 | 2.264e+003 |
| 000003 | 2.004e+003 | 000020 | 1.386e+003 | | |
| 000004 | 1.672e+003 | 000021 | 1.939e+003 | | |
| 000005 | 1.282e+003 | 000022 | 1.704e+003 | | |
| 000006 | 1.646e+003 | 000023 | 1.835e+003 | | |
| 000007 | 1.334e+003 | 000024 | 2.049e+003 | | |
| 000008 | 1.431e+003 | 000025 | 2.166e+003 | | |
| 000009 | 1.691e+003 | 000026 | 2.069e+003 | | |
| 000010 | 1.177e+003 | 000027 | 1.119e+003 | | |
| 000011 | 1.340e+003 | 000028 | 1.216e+003 | | |
| 000012 | 1.509e+003 | 000029 | 1.360e+003 | | |
| 000013 | 1.600e+003 | 000030 | 1.620e+003 | | |
| 000014 | 2.017e+003 | 000031 | 1.386e+003 | | |
| 000015 | 2.387e+003 | 000032 | 1.730e+003 | | |
| 000016 | 1.639e+003 | 000033 | 2.459e+003 | | |
| 000017 | 2.518e+003 | 000034 | 2.225e+003 | | |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05005F

Classification: Class 1

Survey Unit Name: AB 5' Elevation -

Size (m²): 189

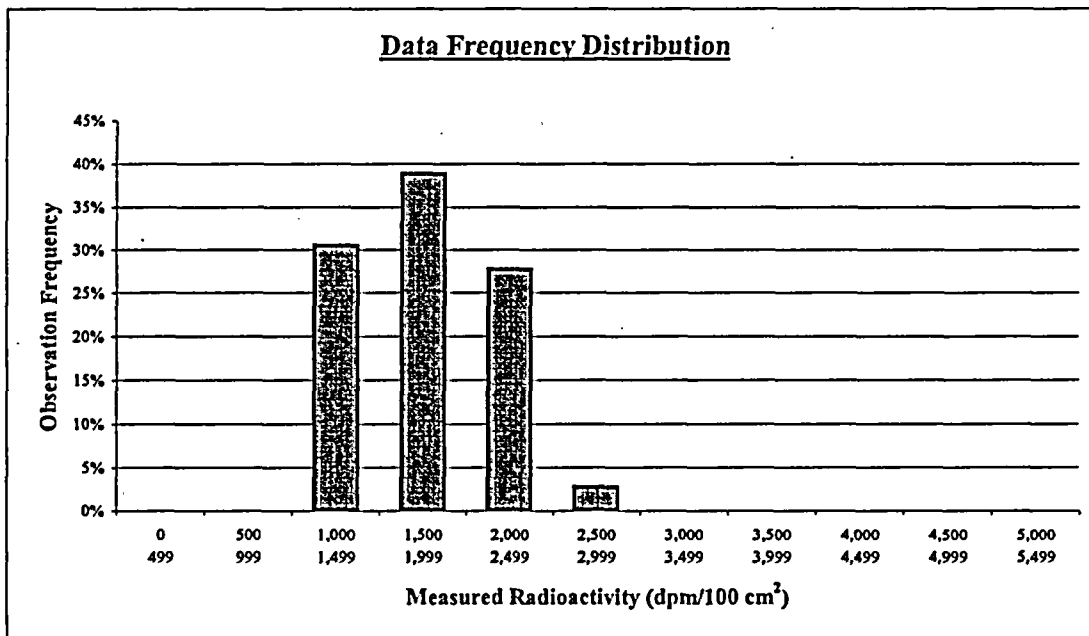
"B" RHR Pump Room Floor and Walls

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | |
|-------------------------|------------------|---------------------|-------------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? |
| Range | 1,399 | 1,904 | Pass |
| Median | 0.140 | 0.500 | Pass |
| Mean | 1,735 | 6,000 | Pass |
| Std Dev | 381 | 1,500 | Pass |

| Statistical Quantities | |
|------------------------|-------|
| Range: | 1,399 |
| Median: | 1,682 |
| Mean: | 1,735 |
| Std Dev: | 381 |
| Minimum: | 1,119 |
| Maximum: | 2,518 |
| DCGL: | 7,500 |

All data less than DCGL; Sign statistical test not required.



| Plot Parameters | |
|---------------------|-------|
| # of measurements: | 36 |
| # of intervals: | 11 |
| Interval increment: | 500 |
| Minimum: | 0 |
| Maximum: | 5,499 |

Comment:

None.

| Interval | High End | Low End | Number of Observations | Observation Frequency |
|----------|----------|---------|------------------------|-----------------------|
| 1 | 499 | 0 | 0 | 0% |
| 2 | 999 | 500 | 0 | 0% |
| 3 | 1,499 | 1,000 | 11 | 31% |
| 4 | 1,999 | 1,500 | 14 | 39% |
| 5 | 2,499 | 2,000 | 10 | 28% |
| 6 | 2,999 | 2,500 | 1 | 3% |
| 7 | 3,499 | 3,000 | 0 | 0% |
| 8 | 3,999 | 3,500 | 0 | 0% |
| 9 | 4,499 | 4,000 | 0 | 0% |
| 10 | 4,999 | 4,500 | 0 | 0% |
| 11 | 5,499 | 5,000 | 0 | 0% |
| Total: | | | 36 | 100% |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05005F

Classification: Class 1

Survey Unit Name: AB 5' Elevation –

Size (m²): 189

“B” RHR Pump Room Floor and Walls

Judgmental and Miscellaneous Measurement Data

Measurement Type: Surface Scanning Beta

Scan Coverage (%): 100

Measurement Units: dpm/100cm²

Investigation Level: 7,500

Minimum Value: 978

Maximum Value: 13,640

Measurement Type: Removable Beta

Number of Measurements: 36

Measurement Units: dpm/100cm²

Investigation Level: 750

Minimum Value: 5

Maximum Value: 20

Discussion of Anomalous Measurement Data

Investigation Summary

Reason for Investigation: Fifteen scan measurements exceeded the investigation level.

Elevated Measurement Comparison (EMC):

| | |
|---|------------------------|
| DCGL (Investigation Level): | 7,500 |
| Measurement Units: | dpm/100cm ² |
| Maximum Value: | 32,270 |
| Size of Area Exceeding DCGL (m²): | 0.34 |
| Size of Survey Unit (m²): | 189 |
| Survey Unit Area >DCGL (%): | 0.2 |
| EMC Value: | 36,750 |

Action Taken: Corrected measurement values for scan locations per guidance in memo FS-018-03; used similar method for measurements obtained with a 43-68 gas flow proportional detector. Deleted scan results for areas to be remediated. Replaced original scan results in SDMS with the corrected results for the others. Rescanned remediated areas in scan locations 165 & 166. Applied EMC data processing to elevated corrected results.

Basis for Action Taken: Technical basis memorandum FS-018-03 provides guidance for correcting SDMS determined scan results for locations that exceed the investigation level by subtracting instrument background from the field results.

FINAL SURVEY RESULTS SUMMARY

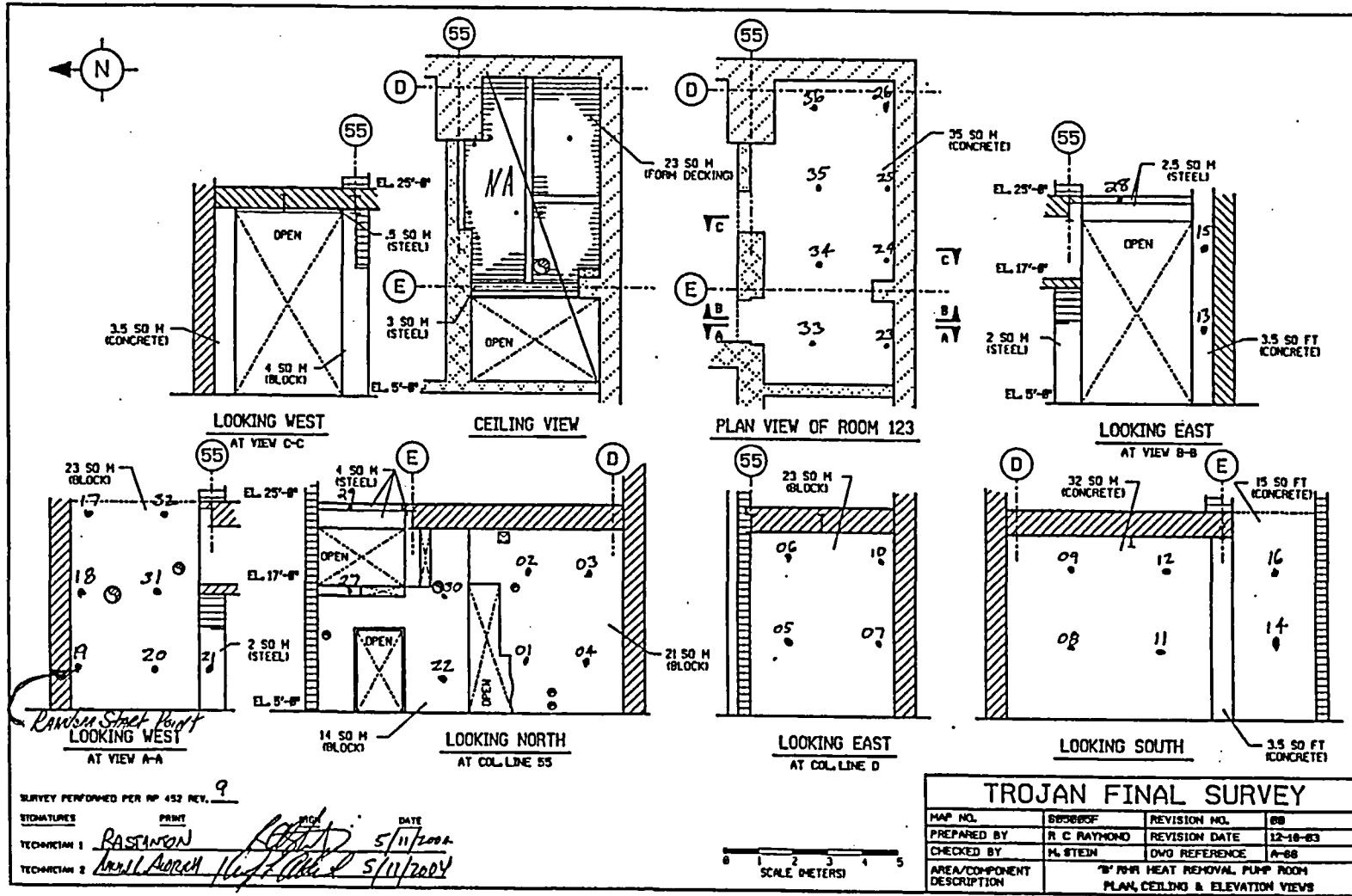
Survey Unit ID Code: S05005F

Classification: Class 1

Survey Unit Name: AB 5' Elevation – “B” RHR Pump Room Floor and Walls

Size (m²): 189

Static Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05005G

Classification: Class 1

Survey Unit Name: AB 5' Elevation -

Size (m²): 177

"A" RHR Pump Room Floor and Walls

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|-----------------------|------------|-------------------------|------------|-----|-----|
| 1 | 31 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 7.186e+002
 Maximum Value : 2.288e+003
 Range : 1.569e+003
 Median : 9.832e+002
 Std. Deviation : 5.392e+002
 Mean : 1.192e+003
 95% UCL : 1.357e+003

Measurement Values

| Location | Value | Location | Value |
|----------|------------|----------|------------|
| 000001 | 2.063e+003 | 000018 | 8.173e+002 |
| 000002 | 2.209e+003 | 000019 | 8.371e+002 |
| 000003 | 2.288e+003 | 000020 | 7.621e+002 |
| 000004 | 2.249e+003 | 000021 | 7.858e+002 |
| 000005 | 2.136e+003 | 000022 | 8.371e+002 |
| 000006 | 1.944e+003 | 000023 | 8.924e+002 |
| 000007 | 2.017e+003 | 000024 | 9.003e+002 |
| 000008 | 1.244e+003 | 000025 | 7.818e+002 |
| 000009 | 1.133e+003 | 000026 | 1.295e+003 |
| 000010 | 1.110e+003 | 000027 | 1.031e+003 |
| 000011 | 7.305e+002 | 000028 | 1.082e+003 |
| 000012 | 8.134e+002 | 000029 | 8.213e+002 |
| 000013 | 7.186e+002 | 000030 | 8.015e+002 |
| 000014 | 7.976e+002 | 000031 | 1.007e+003 |
| 000015 | 1.153e+003 | | |
| 000016 | 7.226e+002 | | |
| 000017 | 9.832e+002 | | |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05005G
 Survey Unit Name: AB 5' Elevation -
 "A" RHR Pump Room Floor and Walls

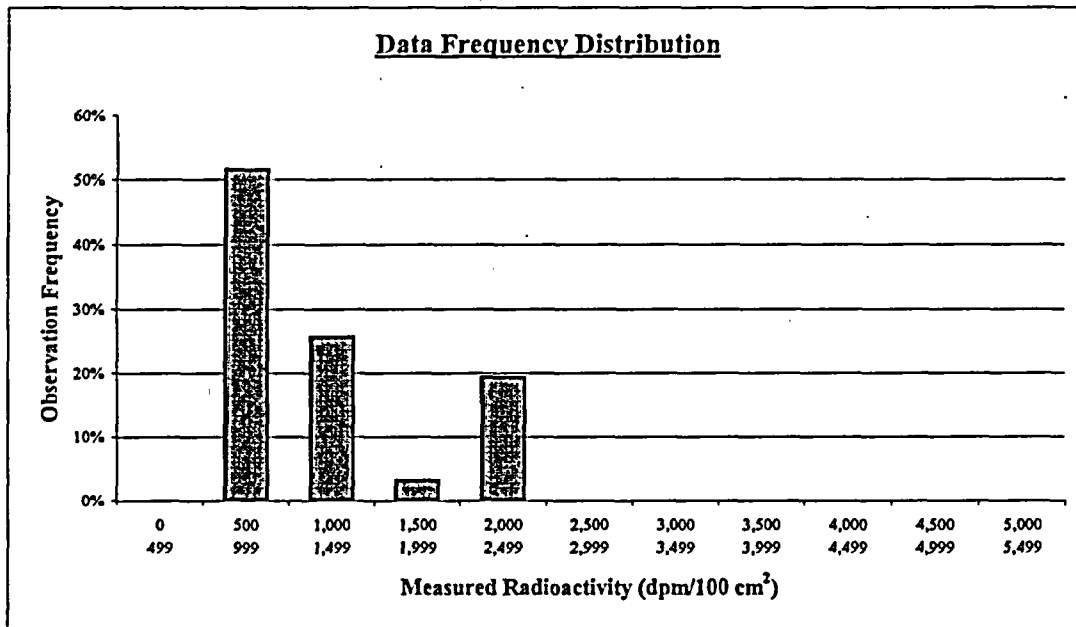
Classification: Class 1
 Size (m²): 177

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | |
|-------------------------|------------------|---------------------|-------------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? |
| Range | 1,569 | 2,696 | Pass |
| Median | 0.388 | 0.500 | Pass |
| Mean | 1,192 | 6,000 | Pass |
| Std Dev | 539 | 1,500 | Pass |

All data less than DCGL; Sign statistical test not required.

| Statistical Quantities | |
|------------------------|-------|
| Range: | 1,569 |
| Median: | 983 |
| Mean: | 1,192 |
| Std Dev: | 539 |
| Minimum: | 719 |
| Maximum: | 2,288 |
| DCGL: | 7,500 |



| Plot Parameters | |
|---------------------|-------|
| # of measurements: | 31 |
| # of intervals: | 11 |
| Interval increment: | 500 |
| Minimum: | 0 |
| Maximum: | 5,499 |

Comment:
None.

| Interval | High End | Low End | Number of Observations | Observation Frequency |
|----------|----------|---------|------------------------|-----------------------|
| 1 | 499 | 0 | 0 | 0% |
| 2 | 999 | 500 | 16 | 52% |
| 3 | 1,499 | 1,000 | 8 | 26% |
| 4 | 1,999 | 1,500 | 1 | 3% |
| 5 | 2,499 | 2,000 | 6 | 19% |
| 6 | 2,999 | 2,500 | 0 | 0% |
| 7 | 3,499 | 3,000 | 0 | 0% |
| 8 | 3,999 | 3,500 | 0 | 0% |
| 9 | 4,499 | 4,000 | 0 | 0% |
| 10 | 4,999 | 4,500 | 0 | 0% |
| 11 | 5,499 | 5,000 | 0 | 0% |
| Total: | | | 31 | 100% |

FINAL SURVEY RESULTS SUMMARY

| | |
|---|----------------------------------|
| Survey Unit ID Code: S05005G | Classification: Class 1 |
| Survey Unit Name: AB 5' Elevation – "A" RHR Pump Room Floor and Walls | Size (m²): 177 |

Judgmental and Miscellaneous Measurement Data

| | |
|--|-----------------------------------|
| Measurement Type: Surface Scanning Beta | Scan Coverage (%): 100 |
| Measurement Units: dpm/100cm ² | Investigation Level: 7,500 |
| Minimum Value: 919 | Maximum Value: 16,130 |

| | |
|--|-----------------------------------|
| Measurement Type: Removable Beta | Number of Measurements: 31 |
| Measurement Units: dpm/100cm ² | Investigation Level: 750 |
| Minimum Value: 5 | Maximum Value: 30 |

Discussion of Anomalous Measurement Data

Investigation Summary

Reason for Investigation: Twelve scan measurements exceeded the investigation level.

Elevated Measurement Comparison (EMC):

| | |
|--|------------------------|
| DCGL (Investigation Level): | 7,500 |
| Measurement Units: | dpm/100cm ² |
| Maximum Value: | 25,300 |
| Size of Area Exceeding DCGL (m ²): | 0.07 |
| Size of Survey Unit (m ²): | 177 |
| Survey Unit Area >DCGL (%): | 0.04 |
| EMC Value: | 36,750 |

Action Taken: Corrected measurement values for scan locations per guidance in memo FS-018-03; used similar method for measurements obtained with a 43-68 gas flow proportional detector. Replaced original scan results in SDMS with the corrected results. Applied EMC data processing to elevated corrected results.

Basis for Action Taken: Technical basis memorandum FS-018-03 provides guidance for correcting SDMS determined scan results for locations that exceed the investigation level by subtracting instrument background from the field results.

FINAL SURVEY RESULTS SUMMARY

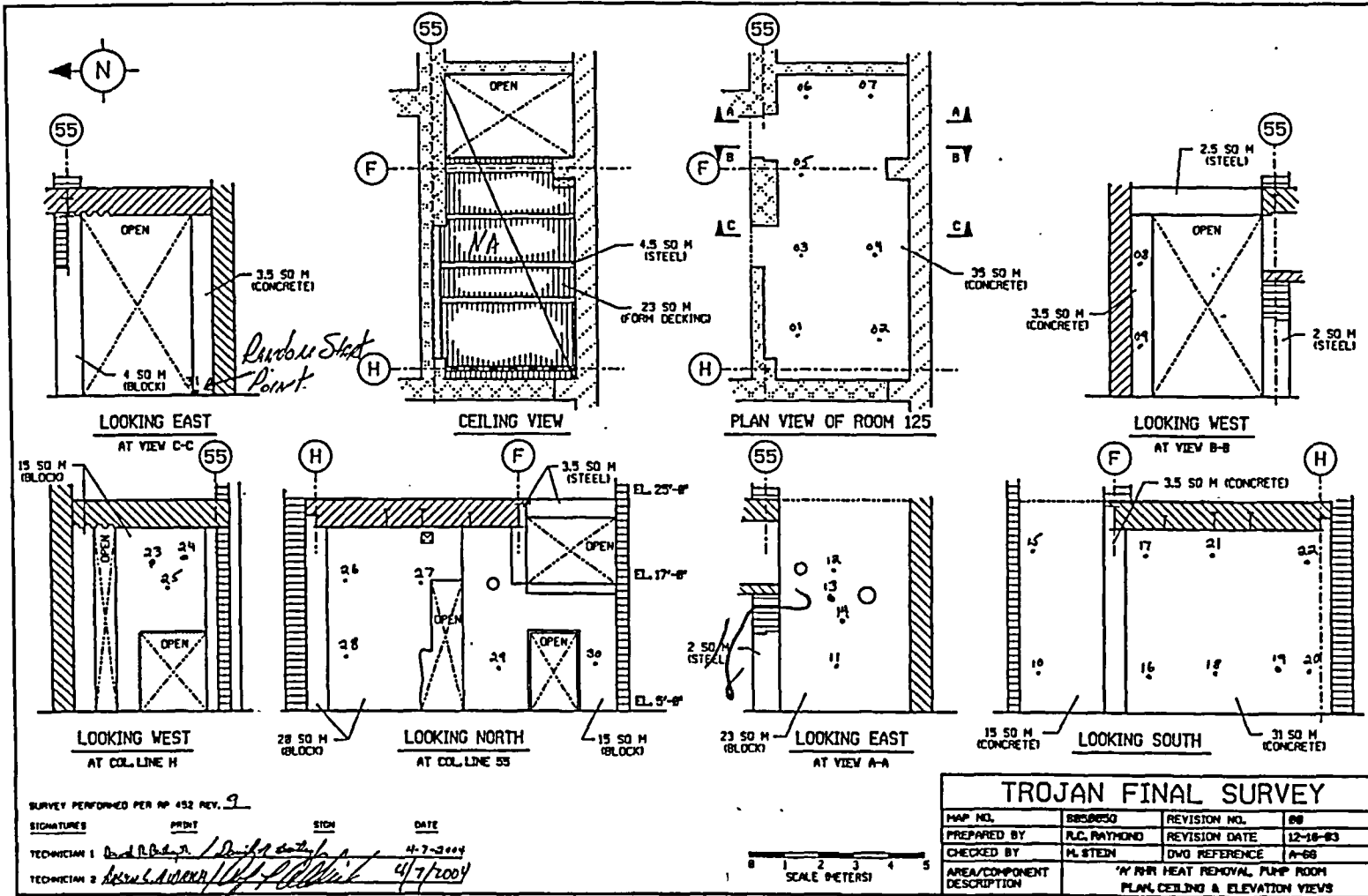
Survey Unit ID Code: S05005G

Survey Unit Name: AB 5' Elevation - "A" RHR Pump Room Floor and Walls

Classification: Class 1

Size (m²): 177

Static Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05005H

Classification: Class 1

Survey Unit Name: AB 5' Elevation -

Size (m²): 209

Clean Waste Receiver Tank Room Floor and Walls

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|-----------------------|------------|-------------------------|------------|-----|-----|
| 1 | 40 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 4.817e+002
 Maximum Value : 3.031e+003
 Range : 2.549e+003
 Median : 1.288e+003
 Std. Deviation : 6.107e+002
 Mean : 1.368e+003
 95% UCL : 1.531e+003

Measurement Values

| Location | Value | Location | Value | Location | Value |
|----------|------------|----------|------------|----------|------------|
| 000001 | 1.687e+003 | 000018 | 1.038e+003 | 000035 | 1.145e+003 |
| 000002 | 2.237e+003 | 000019 | 1.650e+003 | 000036 | 1.145e+003 |
| 000003 | 1.569e+003 | 000020 | 8.015e+002 | 000037 | 1.623e+003 |
| 000004 | 1.550e+003 | 000021 | 8.015e+002 | 000038 | 1.762e+003 |
| 000005 | 3.031e+003 | 000022 | 7.976e+002 | 000039 | 1.706e+003 |
| 000006 | 1.687e+003 | 000023 | 4.817e+002 | 000040 | 1.987e+003 |
| 000007 | 1.969e+003 | 000024 | 7.305e+002 | | |
| 000008 | 1.912e+003 | 000025 | 7.779e+002 | | |
| 000009 | 2.150e+003 | 000026 | 9.397e+002 | | |
| 000010 | 1.894e+003 | 000027 | 8.055e+002 | | |
| 000011 | 1.431e+003 | 000028 | 5.646e+002 | | |
| 000012 | 2.056e+003 | 000029 | 6.712e+002 | | |
| 000013 | 2.037e+003 | 000030 | 8.055e+002 | | |
| 000014 | 1.987e+003 | 000031 | 7.423e+002 | | |
| 000015 | 2.215e+003 | 000032 | 1.086e+003 | | |
| 000016 | 9.200e+002 | 000033 | 7.621e+002 | | |
| 000017 | 8.410e+002 | 000034 | 7.344e+002 | | |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05005H

Classification: Class 1

Survey Unit Name: AB 5' Elevation -

Size (m²): 209

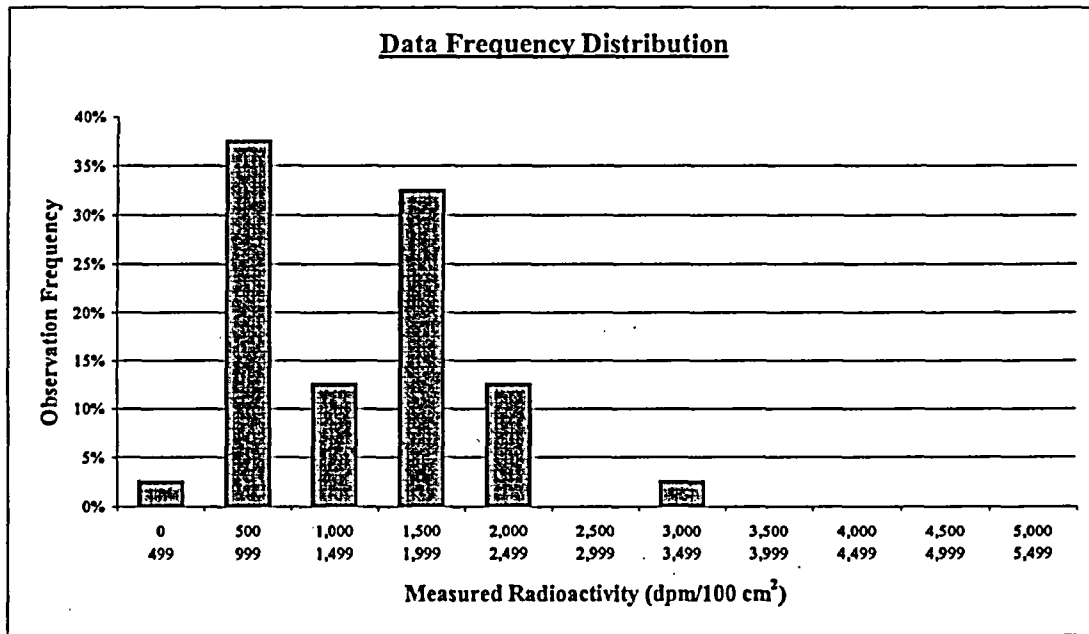
Clean Waste Receiver Tank Room Floor and Walls

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | |
|-------------------------|------------------|---------------------|-------------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? |
| Range | 2,549 | 3,053 | Pass |
| Median | 0.132 | 0.500 | Pass |
| Mean | 1,368 | 6,000 | Pass |
| Std Dev | 611 | 1,500 | Pass |

| Statistical Quantities | |
|------------------------|-------|
| Range: | 2,549 |
| Median: | 1,288 |
| Mean: | 1,368 |
| Std Dev: | 611 |
| Minimum: | 482 |
| Maximum: | 3,031 |
| DCGL: | 7,500 |

All data less than DCGL; Sign statistical test not required.



| Plot Parameters | |
|---------------------|-------|
| # of measurements: | 40 |
| # of intervals: | 11 |
| Interval increment: | 500 |
| Minimum: | 0 |
| Maximum: | 5,499 |

Comment:
None.

| Interval | High End | Low End | Number of Observations | Observation Frequency |
|----------|----------|---------|------------------------|-----------------------|
| 1 | 499 | 0 | 1 | 3% |
| 2 | 999 | 500 | 15 | 38% |
| 3 | 1,499 | 1,000 | 5 | 13% |
| 4 | 1,999 | 1,500 | 13 | 33% |
| 5 | 2,499 | 2,000 | 5 | 13% |
| 6 | 2,999 | 2,500 | 0 | 0% |
| 7 | 3,499 | 3,000 | 1 | 3% |
| 8 | 3,999 | 3,500 | 0 | 0% |
| 9 | 4,499 | 4,000 | 0 | 0% |
| 10 | 4,999 | 4,500 | 0 | 0% |
| 11 | 5,499 | 5,000 | 0 | 0% |
| Total: | | | 40 | 100% |

FINAL SURVEY RESULTS SUMMARY

| | |
|--|----------------------------------|
| Survey Unit ID Code: S05005H | Classification: Class 1 |
| Survey Unit Name: AB 5' Elevation – Clean Waste Receiver Tank Room Floor and Walls | Size (m²): 209 |

Judgmental and Miscellaneous Measurement Data

| | |
|--|-----------------------------------|
| Measurement Type: Surface Scanning Beta | Scan Coverage (%): 100 |
| Measurement Units: dpm/100cm ² | Investigation Level: 7,500 |
| Minimum Value: 930 | Maximum Value: 12,570 |

| | |
|--|-----------------------------------|
| Measurement Type: Removable Beta | Number of Measurements: 40 |
| Measurement Units: dpm/100cm ² | Investigation Level: 750 |
| Minimum Value: 5 | Maximum Value: 130 |

Discussion of Anomalous Measurement Data

Investigation Summary

Reason for Investigation: Fourteen scan measurements exceeded the investigation level.

Elevated Measurement Comparison (EMC):

| | |
|---|------------------------|
| DCGL (Investigation Level): | 7,500 |
| Measurement Units: | dpm/100cm ² |
| Maximum Value: | 22,350 |
| Size of Area Exceeding DCGL (m²): | 0.06 |
| Size of Survey Unit (m²): | 209 |
| Survey Unit Area >DCGL (%): | 0.03 |
| EMC Value: | 36,750 |

Action Taken: Corrected measurement values for scan locations per guidance in memo FS-018-03; used similar method for measurements obtained with a 43-68 gas flow proportional detector. Replaced original scan results in SDMS with these corrected results. Applied EMC data processing to corrected scan results that remain elevated.

Basis for Action Taken: Technical basis memorandum FS-018-03 provides guidance for correcting SDMS determined scan results for locations that exceed the investigation level by subtracting instrument background from the field results

FINAL SURVEY RESULTS SUMMARY

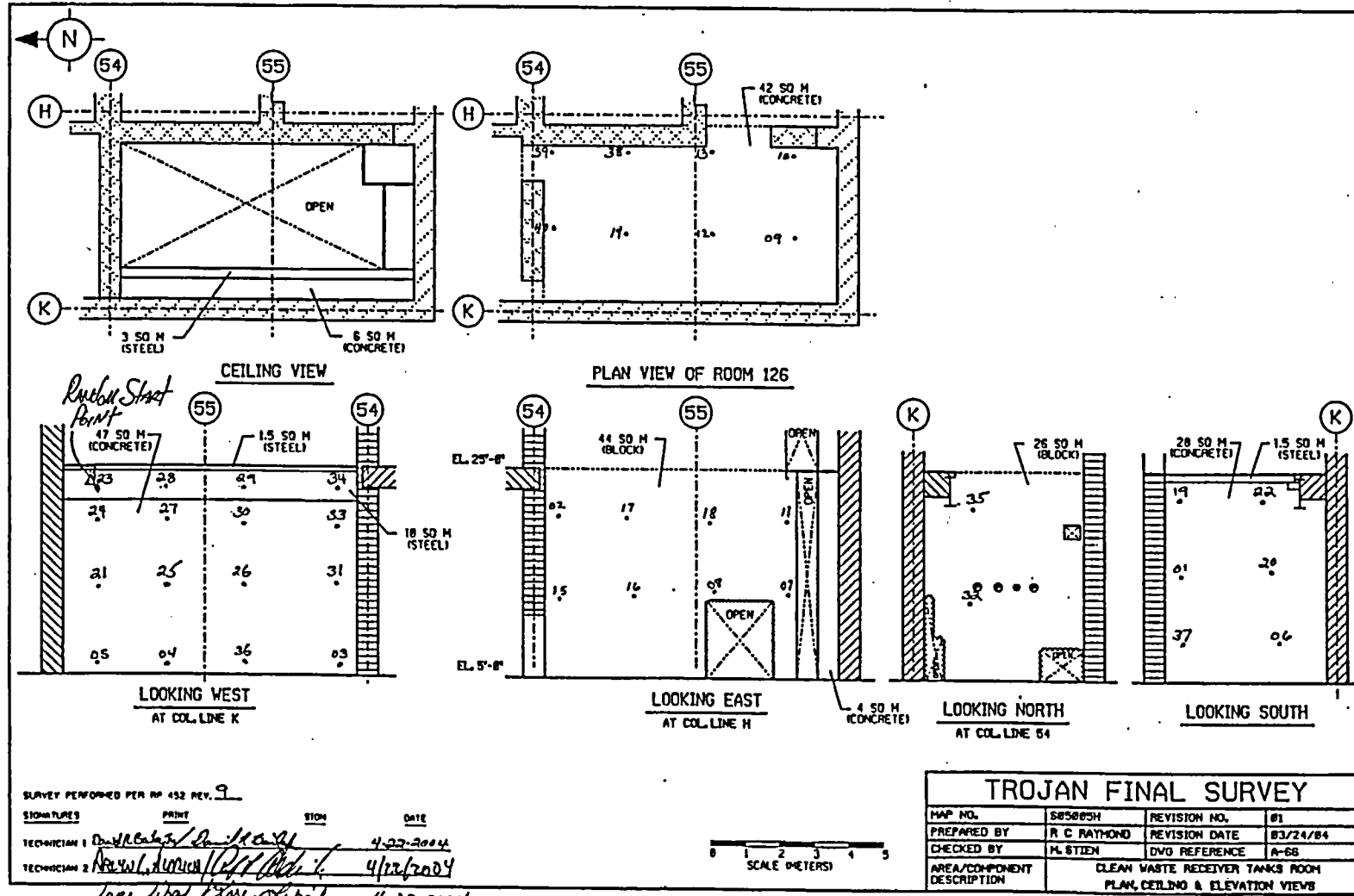
Survey Unit ID Code: S05005H

Classification: Class 1

Survey Unit Name: AB 5' Elevation – Clean Waste Receiver Tank Room Floor and Walls

Size (m²): 209

Static Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05005J Classification: Class 1
 Survey Unit Name: AB 5' Elevation - Size (m²): 280
 Waste Receiver and Drain Pump Rooms Floor and Walls

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|--------------------------|---------------|-------------------------|------------|-----|-----|
| 1 | 50 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 1.031e+003
 Maximum Value : 4.112e+003
 Range : 3.081e+003
 Median : 1.438e+003
 Std. Deviation : 5.367e+002
 Mean : 1.655e+003
 95% UCL : 1.782e+003

Measurement Values

| Location | Value | Location | Value | Location | Value |
|----------|------------|----------|------------|----------|------------|
| 000001 | 1.712e+003 | 000018 | 1.912e+003 | 000035 | 1.419e+003 |
| 000002 | 1.569e+003 | 000019 | 1.362e+003 | 000036 | 1.987e+003 |
| 000003 | 1.506e+003 | 000020 | 1.162e+003 | 000037 | 1.356e+003 |
| 000004 | 1.862e+003 | 000021 | 1.281e+003 | 000038 | 1.319e+003 |
| 000005 | 1.812e+003 | 000022 | 1.212e+003 | 000039 | 1.300e+003 |
| 000006 | 1.575e+003 | 000023 | 1.256e+003 | 000040 | 2.193e+003 |
| 000007 | 1.756e+003 | 000024 | 1.306e+003 | 000041 | 1.356e+003 |
| 000008 | 2.718e+003 | 000025 | 2.193e+003 | 000042 | 1.356e+003 |
| 000009 | 1.706e+003 | 000026 | 1.325e+003 | 000043 | 1.256e+003 |
| 000010 | 4.112e+003 | 000027 | 1.169e+003 | 000044 | 1.362e+003 |
| 000011 | 2.006e+003 | 000028 | 2.087e+003 | 000045 | 1.269e+003 |
| 000012 | 2.237e+003 | 000029 | 1.325e+003 | 000046 | 1.031e+003 |
| 000013 | 1.644e+003 | 000030 | 1.344e+003 | 000047 | 1.406e+003 |
| 000014 | 1.381e+003 | 000031 | 1.381e+003 | 000048 | 1.144e+003 |
| 000015 | 1.950e+003 | 000032 | 2.168e+003 | 000049 | 1.550e+003 |
| 000016 | 2.462e+003 | 000033 | 1.600e+003 | 000050 | 1.287e+003 |
| 000017 | 2.612e+003 | 000034 | 1.456e+003 | | |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05005J

Classification: Class 1

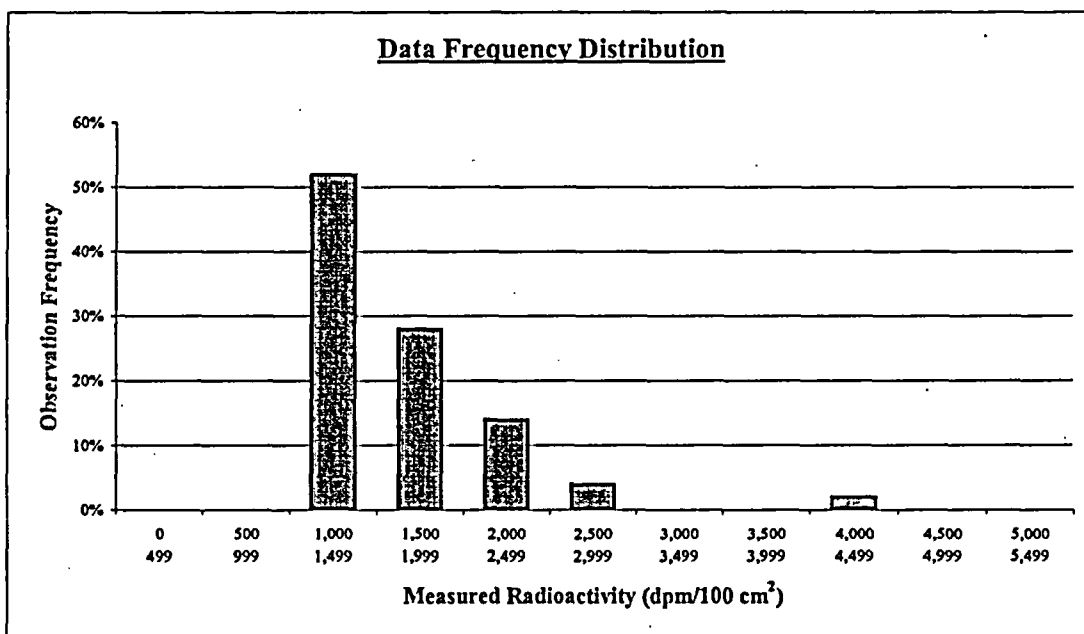
Survey Unit Name: AB 5' Elevation –

Size (m²): 280

Waste Receiver and Drain Pump Rooms Floor and Walls

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | | Statistical Quantities | |
|--|------------------|---------------------|-------------------|------------------------|-------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? | Range: | 3,081 |
| Range | 3,081 | 2,683 | See comment below | Median: | 1,438 |
| Median | 0.405 | 0.500 | Pass | Mean: | 1,655 |
| Mean | 1,655 | 6,000 | Pass | Std Dev: | 537 |
| Std Dev | 537 | 1,500 | Pass | Minimum: | 1,031 |
| All data less than DCGL; Sign statistical test not required. | | | | Maximum: | 4,112 |
| | | | | DCGL: | 7,500 |



| Plot Parameters | Interval | High End | Low End | Number of Observations | Observation Frequency |
|-------------------------|---------------|----------|---------|------------------------|-----------------------|
| # of measurements: 50 | 1 | 499 | 0 | 0 | 0% |
| # of intervals: 11 | 2 | 999 | 500 | 0 | 0% |
| Interval increment: 500 | 3 | 1,499 | 1,000 | 26 | 52% |
| Minimum: 0 | 4 | 1,999 | 1,500 | 14 | 28% |
| Maximum: 5,499 | 5 | 2,499 | 2,000 | 7 | 14% |
| | 6 | 2,999 | 2,500 | 2 | 4% |
| | 7 | 3,499 | 3,000 | 0 | 0% |
| | 8 | 3,999 | 3,500 | 0 | 0% |
| | 9 | 4,499 | 4,000 | 1 | 2% |
| | 10 | 4,999 | 4,500 | 0 | 0% |
| | 11 | 5,499 | 5,000 | 0 | 0% |
| | Total: | | | 50 | 100% |

Comment:

Range failure is a test artifact due to a single measurement value exceeding 4,000 dpm, with the other 49 values less than 3,000 dpm. All measurement values are valid and accepted.

FINAL SURVEY RESULTS SUMMARY

| | |
|---|----------------------------------|
| Survey Unit ID Code: S05005J | Classification: Class 1 |
| Survey Unit Name: AB 5' Elevation – Waste Receiver and Drain Pump Rooms Floor and Walls | Size (m²): 280 |

Judgmental and Miscellaneous Measurement Data

| | |
|--|-----------------------------------|
| Measurement Type: Surface Scanning Beta | Scan Coverage (%): 100 |
| Measurement Units: dpm/100cm ² | Investigation Level: 7,500 |
| Minimum Value: 875 | Maximum Value: 13,810 |

| | |
|--|-----------------------------------|
| Measurement Type: Removable Beta | Number of Measurements: 50 |
| Measurement Units: dpm/100cm ² | Investigation Level: 750 |
| Minimum Value: 3 | Maximum Value: 23 |

Discussion of Anomalous Measurement Data

Investigation Summary

Reason for Investigation: Twenty-three scan measurements exceeded the investigation level.

Elevated Measurement Comparison (EMC):

| | |
|--|------------------------|
| DCGL (Investigation Level): | 7,500 |
| Measurement Units: | dpm/100cm ² |
| Maximum Value: | 90,595 |
| Size of Area Exceeding DCGL (m ²): | 0.52 |
| Size of Survey Unit (m ²): | 280 |
| Survey Unit Area >DCGL (%): | 0.2 |
| EMC Value: | 36,750 |

Action Taken: Corrected measurement values for scan locations per guidance in memo FS-018-03; used similar method for measurements obtained with a 43-68 gas flow proportional detector. Deleted scan results for areas to be remediated. Replaced original scan results in SDMS with the corrected results. Rescanned remediated areas. Applied EMC data processing to corrected scan locations that remain elevated.

Basis for Action Taken: Technical basis memorandum FS-018-03 provides guidance for correcting SDMS determined scan results for locations that exceed the investigation level by subtracting instrument background from the field results

FINAL SURVEY RESULTS SUMMARY

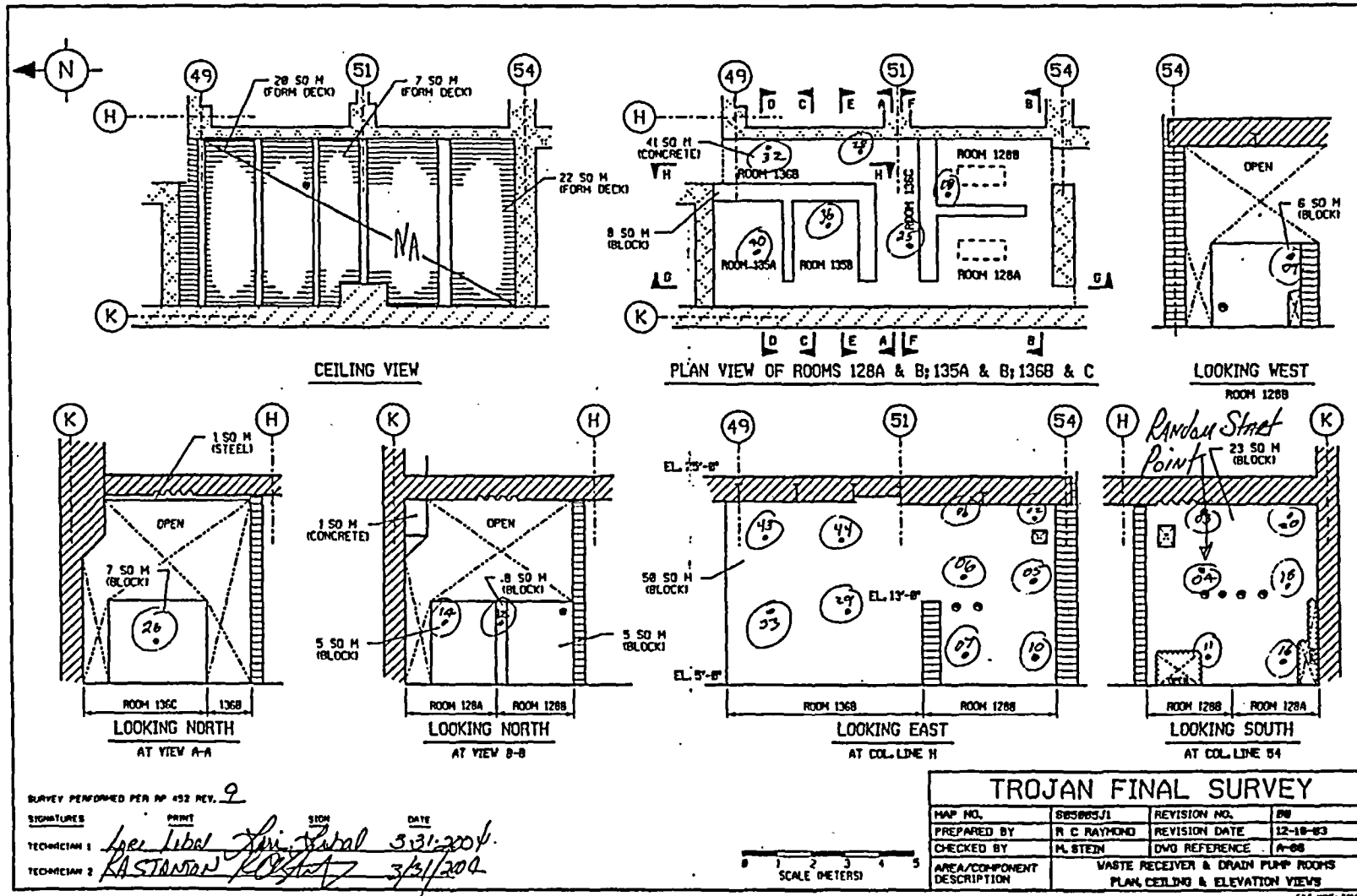
Survey Unit ID Code: S05005J

Survey Unit Name: AB 5' Elevation - Waste Receiver and Drain Pump Rooms Floor and Walls

Classification: Class 1

Size (m²): 280

Static Measurement Locations Map



SURVEY PERFORMED PER AP 452 REV. 9

SIGNATURES: *Lee Libal* (TECHNICIAN 1), *John Sabal* (TECHNICIAN 2), *R. ASTANIAN* (PRINT), *ROBERT* (SIGN), DATE: 3/31/2004

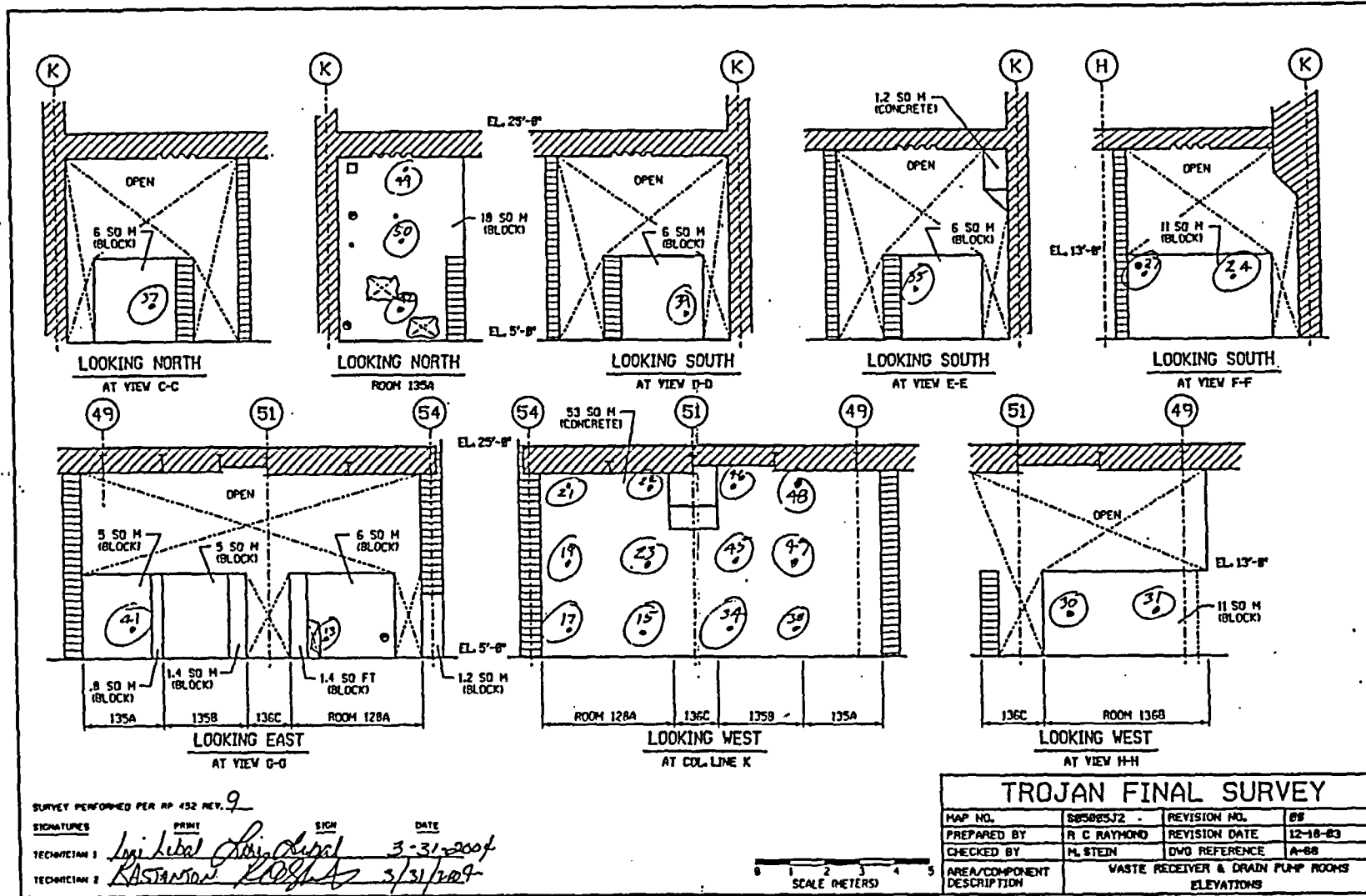
FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05005J

Survey Unit Name: AB 5' Elevation - Waste Receiver and Drain Pump Rooms Floor and Walls

Classification: Class 1
Size (m²): 280

Static Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05005K
 Survey Unit Name: AB 5' Elevation -
 Drain Tank Room Floor and Walls

Classification: Class 1
 Size (m²): 100

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|-----------------------|------------|-------------------------|------------|-----|-----|
| 1 | 30 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 6.949e+002
 Maximum Value : 2.405e+003
 Range : 1.710e+003
 Median : 9.535e+002
 Std. Deviation : 4.427e+002
 Mean : 1.111e+003
 95% UCL : 1.249e+003

Measurement Values

| Location | Value | Location | Value |
|----------|------------|----------|------------|
| 000001 | 8.963e+002 | 000018 | 8.726e+002 |
| 000002 | 2.405e+003 | 000019 | 7.226e+002 |
| 000003 | 1.038e+003 | 000020 | 9.911e+002 |
| 000004 | 8.805e+002 | 000021 | 8.410e+002 |
| 000005 | 8.687e+002 | 000022 | 8.450e+002 |
| 000006 | 7.976e+002 | 000023 | 8.489e+002 |
| 000007 | 7.739e+002 | 000024 | 7.068e+002 |
| 000008 | 8.213e+002 | 000025 | 6.949e+002 |
| 000009 | 1.074e+003 | 000026 | 1.627e+003 |
| 000010 | 9.990e+002 | 000027 | 1.594e+003 |
| 000011 | 9.990e+002 | 000028 | 1.978e+003 |
| 000012 | 7.423e+002 | 000029 | 1.865e+003 |
| 000013 | 1.169e+003 | 000030 | 1.905e+003 |
| 000014 | 1.441e+003 | | |
| 000015 | 9.555e+002 | | |
| 000016 | 9.516e+002 | | |
| 000017 | 1.038e+003 | | |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05005K
 Survey Unit Name: AB 5' Elevation –
 Drain Tank Room Floor and Walls

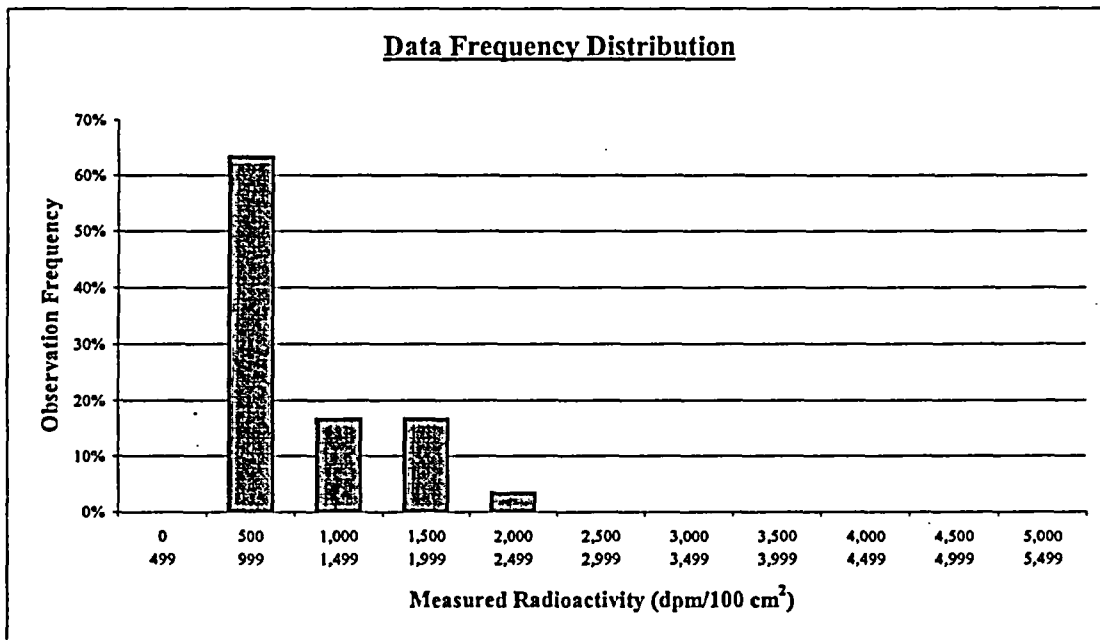
Classification: Class 1
 Size (m²): 100

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | |
|--------------------------------|------------------|---------------------|-------------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? |
| Range | 1,710 | 2,213 | Pass |
| Median | 0.356 | 0.500 | Pass |
| Mean | 1,112 | 6,000 | Pass |
| Std Dev | 443 | 1,500 | Pass |

| Statistical Quantities | |
|-------------------------------|-------|
| Range: | 1,710 |
| Median: | 954 |
| Mean: | 1,112 |
| Std Dev: | 443 |
| Minimum: | 695 |
| Maximum: | 2,405 |
| DCGL: | 7,500 |

All data less than DCGL; Sign statistical test not required.



| Plot Parameters | |
|------------------------|-------|
| # of measurements: | 30 |
| # of intervals: | 11 |
| Interval increment: | 500 |
| Minimum: | 0 |
| Maximum: | 5,499 |

Comment:
None.

| Interval | High End | Low End | Number of Observations | Observation Frequency |
|---------------|----------|---------|------------------------|-----------------------|
| 1 | 499 | 0 | 0 | 0% |
| 2 | 999 | 500 | 19 | 63% |
| 3 | 1,499 | 1,000 | 5 | 17% |
| 4 | 1,999 | 1,500 | 5 | 17% |
| 5 | 2,499 | 2,000 | 1 | 3% |
| 6 | 2,999 | 2,500 | 0 | 0% |
| 7 | 3,499 | 3,000 | 0 | 0% |
| 8 | 3,999 | 3,500 | 0 | 0% |
| 9 | 4,499 | 4,000 | 0 | 0% |
| 10 | 4,999 | 4,500 | 0 | 0% |
| 11 | 5,499 | 5,000 | 0 | 0% |
| Total: | | | 30 | 100% |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05005K **Classification:** Class 1
Survey Unit Name: AB 5' Elevation – **Size (m²):** 100
Drain Tank Room Floor and Walls

Judgmental and Miscellaneous Measurement Data

Measurement Type: Surface Scanning Beta **Scan Coverage (%):** 100
Measurement Units: dpm/100cm² **Investigation Level:** 7,500
Minimum Value: 965 **Maximum Value:** 14,290

Measurement Type: Removable Beta **Number of Measurements:** 30
Measurement Units: dpm/100cm² **Investigation Level:** 750
Minimum Value: 5 **Maximum Value:** 17

Discussion of Anomalous Measurement Data

Investigation Summary

Reason for Investigation: Five scan measurements exceeded the investigation level.

Elevated Measurement Comparison (EMC):

| | |
|---|------------------------|
| DCGL (Investigation Level): | 7,500 |
| Measurement Units: | dpm/100cm ² |
| Maximum Value: | 14,294 |
| Size of Area Exceeding DCGL (m²): | 0.01 |
| Size of Survey Unit (m²): | 100 |
| Survey Unit Area >DCGL (%): | 0.01 |
| EMC Value: | 36,750 |

Action Taken: Corrected measurement values for scan locations per guidance in memo FS-018-03. Replaced original scan results in SDMS with the corrected results. Applied EMC data processing to corrected scan locations that remain elevated.

Basis for Action Taken: Technical basis memorandum FS-018-03 provides guidance for correcting SDMS determined scan results for locations that exceed the investigation level by subtracting instrument background from the field results.

FINAL SURVEY RESULTS SUMMARY

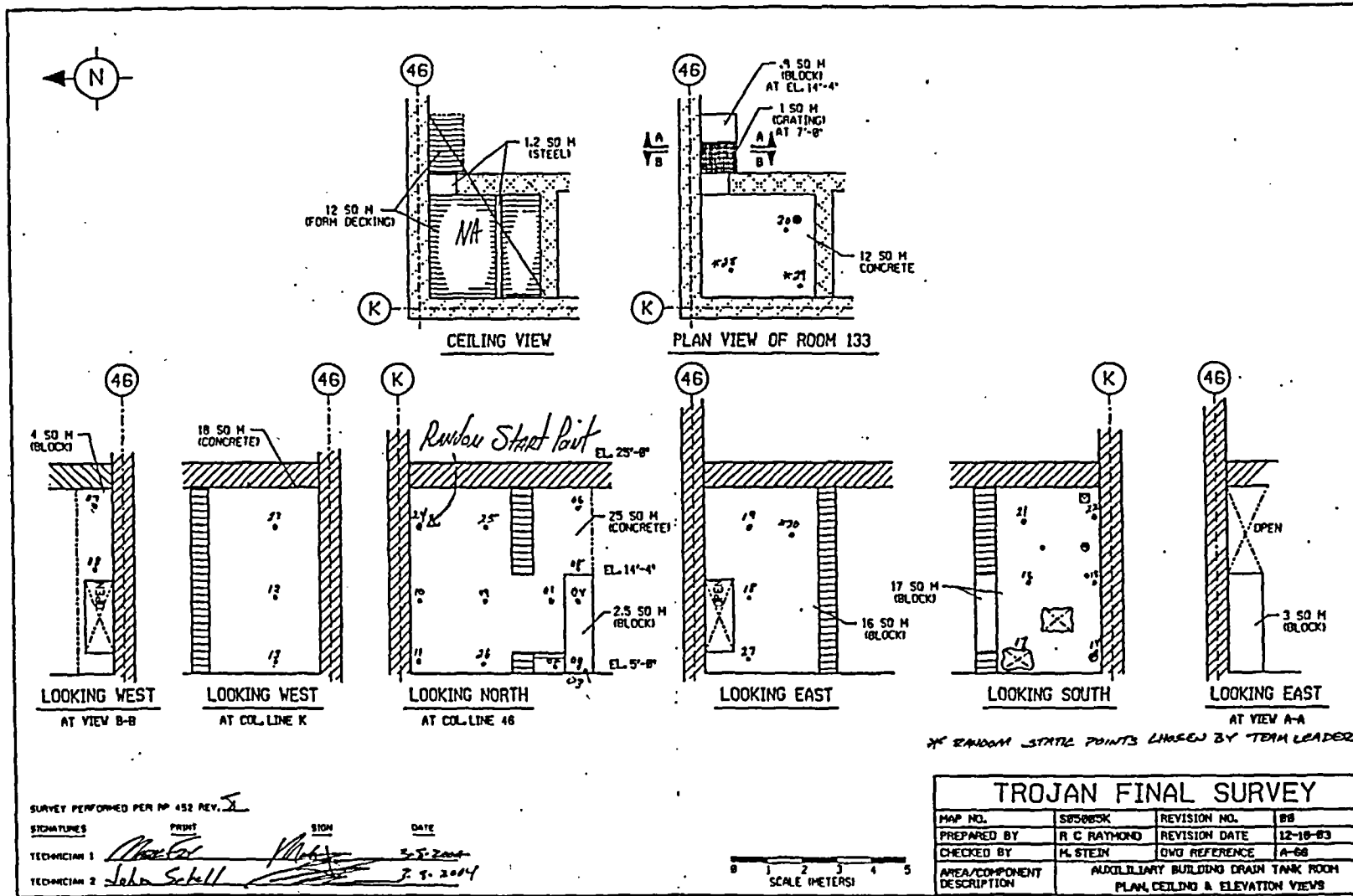
Survey Unit ID Code: S05005K

Classification: Class 1

Survey Unit Name: AB 5' Elevation – Drain Tank Room Floor and Walls

Size (m²): 100

Static Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05005L
 Survey Unit Name: AB 5' Elevation -
 North Hallway Floor and Lower Walls

Classification: Class 1
 Size (m²): 119

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|-----------------------|------------|-------------------------|------------|-----|-----|
| 1 | 30 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 9.374e+002
 Maximum Value : 2.168e+003
 Range : 1.231e+003
 Median : 1.431e+003
 Std. Deviation : 3.839e+002
 Mean : 1.560e+003
 95% UCL : 1.678e+003

Measurement Values

| Location | Value | Location | Value |
|----------|------------|----------|------------|
| 000001 | 1.175e+003 | 000018 | 1.325e+003 |
| 000002 | 1.187e+003 | 000019 | 9.374e+002 |
| 000003 | 1.956e+003 | 000020 | 1.862e+003 |
| 000004 | 2.106e+003 | 000021 | 1.212e+003 |
| 000005 | 2.100e+003 | 000022 | 1.931e+003 |
| 000006 | 2.137e+003 | 000023 | 1.187e+003 |
| 000007 | 1.431e+003 | 000024 | 1.287e+003 |
| 000008 | 1.950e+003 | 000025 | 1.431e+003 |
| 000009 | 1.362e+003 | 000026 | 1.462e+003 |
| 000010 | 1.231e+003 | 000027 | 1.650e+003 |
| 000011 | 2.168e+003 | 000028 | 1.262e+003 |
| 000012 | 1.531e+003 | 000029 | 1.175e+003 |
| 000013 | 1.200e+003 | 000030 | 1.344e+003 |
| 000014 | 2.075e+003 | | |
| 000015 | 1.825e+003 | | |
| 000016 | 2.100e+003 | | |
| 000017 | 1.187e+003 | | |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05005L
 Survey Unit Name: AB 5' Elevation -
 North Hallway Floor and Lower Walls

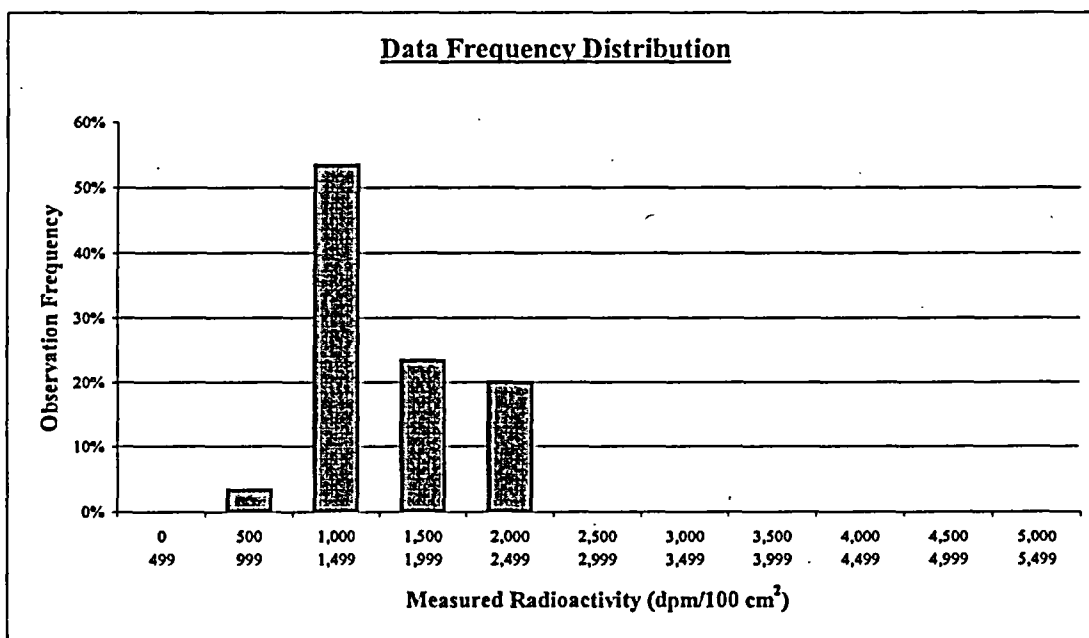
Classification: Class 1
 Size (m²): 119

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | |
|-------------------------|------------------|---------------------|-------------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? |
| Range | 1,231 | 1,920 | Pass |
| Median | 0.335 | 0.500 | Pass |
| Mean | 1,560 | 6,000 | Pass |
| Std Dev | 384 | 1,500 | Pass |

| Statistical Quantities | |
|------------------------|-------|
| Range: | 1,231 |
| Median: | 1,431 |
| Mean: | 1,560 |
| Std Dev: | 384 |
| Minimum: | 937 |
| Maximum: | 2,168 |
| DCGL: | 7,500 |

All data less than DCGL; Sign statistical test not required.



| Plot Parameters | |
|---------------------|-------|
| # of measurements: | 30 |
| # of intervals: | 11 |
| Interval increment: | 500 |
| Minimum: | 0 |
| Maximum: | 5,499 |

Comment:
None.

| Interval | High End | Low End | Number of Observations | Observation Frequency |
|----------|----------|---------|------------------------|-----------------------|
| 1 | 499 | 0 | 0 | 0% |
| 2 | 999 | 500 | 1 | 3% |
| 3 | 1,499 | 1,000 | 16 | 53% |
| 4 | 1,999 | 1,500 | 7 | 23% |
| 5 | 2,499 | 2,000 | 6 | 20% |
| 6 | 2,999 | 2,500 | 0 | 0% |
| 7 | 3,499 | 3,000 | 0 | 0% |
| 8 | 3,999 | 3,500 | 0 | 0% |
| 9 | 4,499 | 4,000 | 0 | 0% |
| 10 | 4,999 | 4,500 | 0 | 0% |
| 11 | 5,499 | 5,000 | 0 | 0% |
| Total: | | | 30 | 100% |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05005L
Survey Unit Name: AB 5' Elevation –
 North Hallway Floor and Lower Walls

Classification: Class 1
Size (m²): 119

Judgmental and Miscellaneous Measurement Data

| | |
|--|-----------------------------------|
| Measurement Type: Surface Scanning Beta | Scan Coverage (%): 100 |
| Measurement Units: dpm/100cm ² | Investigation Level: 7,500 |
| Minimum Value: 1,460 | Maximum Value: 11,500 |

| | |
|--|-----------------------------------|
| Measurement Type: Removable Beta | Number of Measurements: 30 |
| Measurement Units: dpm/100cm ² | Investigation Level: 750 |
| Minimum Value: 40 | Maximum Value: 87 |

Discussion of Anomalous Measurement Data

Investigation Summary

Reason for Investigation: Two scan measurements exceeded the investigation level.

Elevated Measurement Comparison (EMC):

| | |
|---|------------------------|
| DCGL (Investigation Level): | 7,500 |
| Measurement Units: | dpm/100cm ² |
| Maximum Value: | 11,500 |
| Size of Area Exceeding DCGL (m²): | 0.04 |
| Size of Survey Unit (m²): | 119 |
| Survey Unit Area >DCGL (%): | 0.03 |
| EMC Value: | 36,750 |

Action Taken: Applied EMC data processing to elevated scan locations 014 & 067.

Basis for Action Taken: Two very small localized areas of elevated radioactivity identified during scan surveys are each less than 1 m².

FINAL SURVEY RESULTS SUMMARY

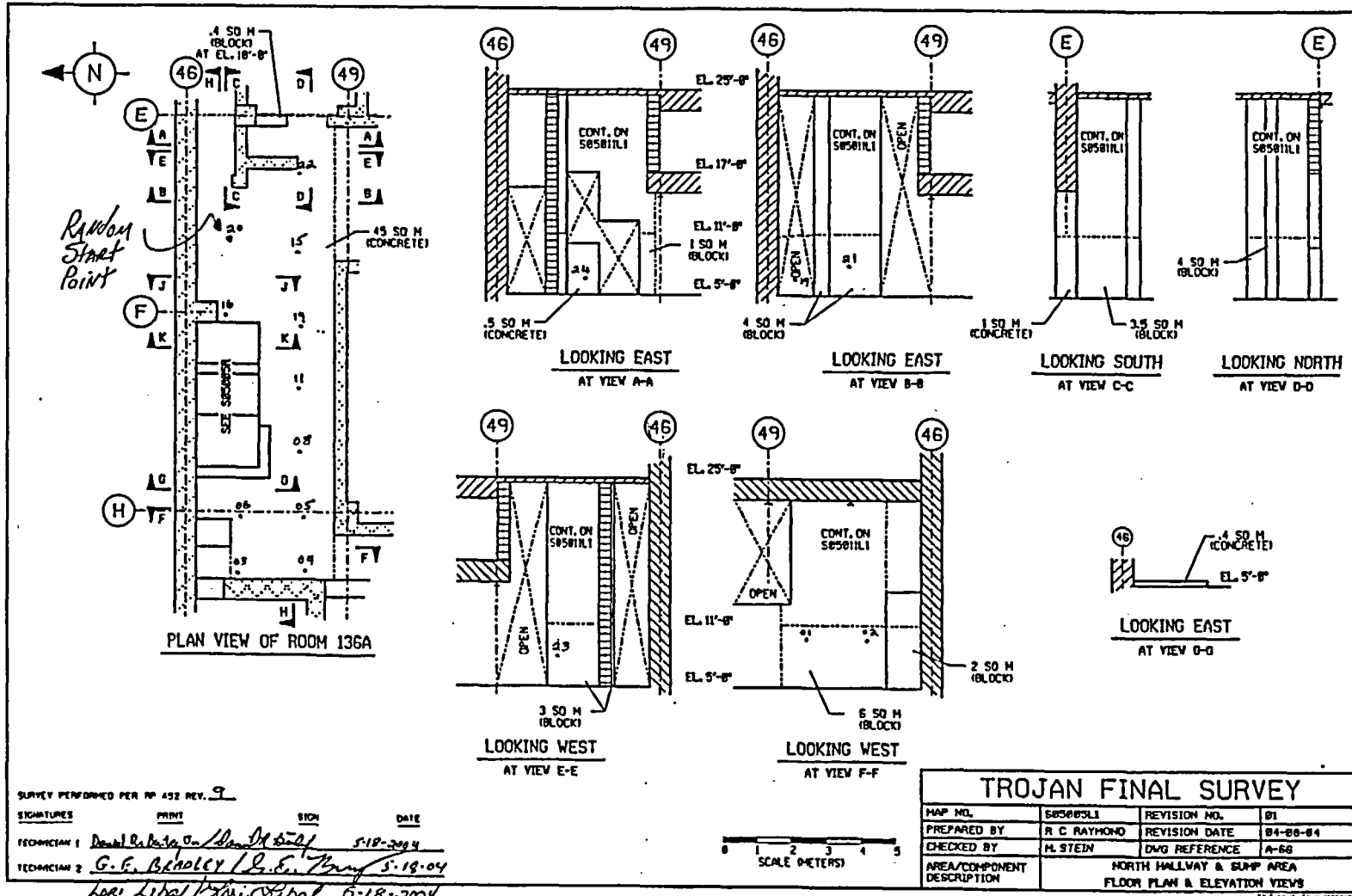
Survey Unit ID Code: S05005L

Survey Unit Name: AB 5' Elevation - North Hallway Floor and Lower Walls

Classification: Class 1

Size (m²): 119

Static Measurement Locations Map

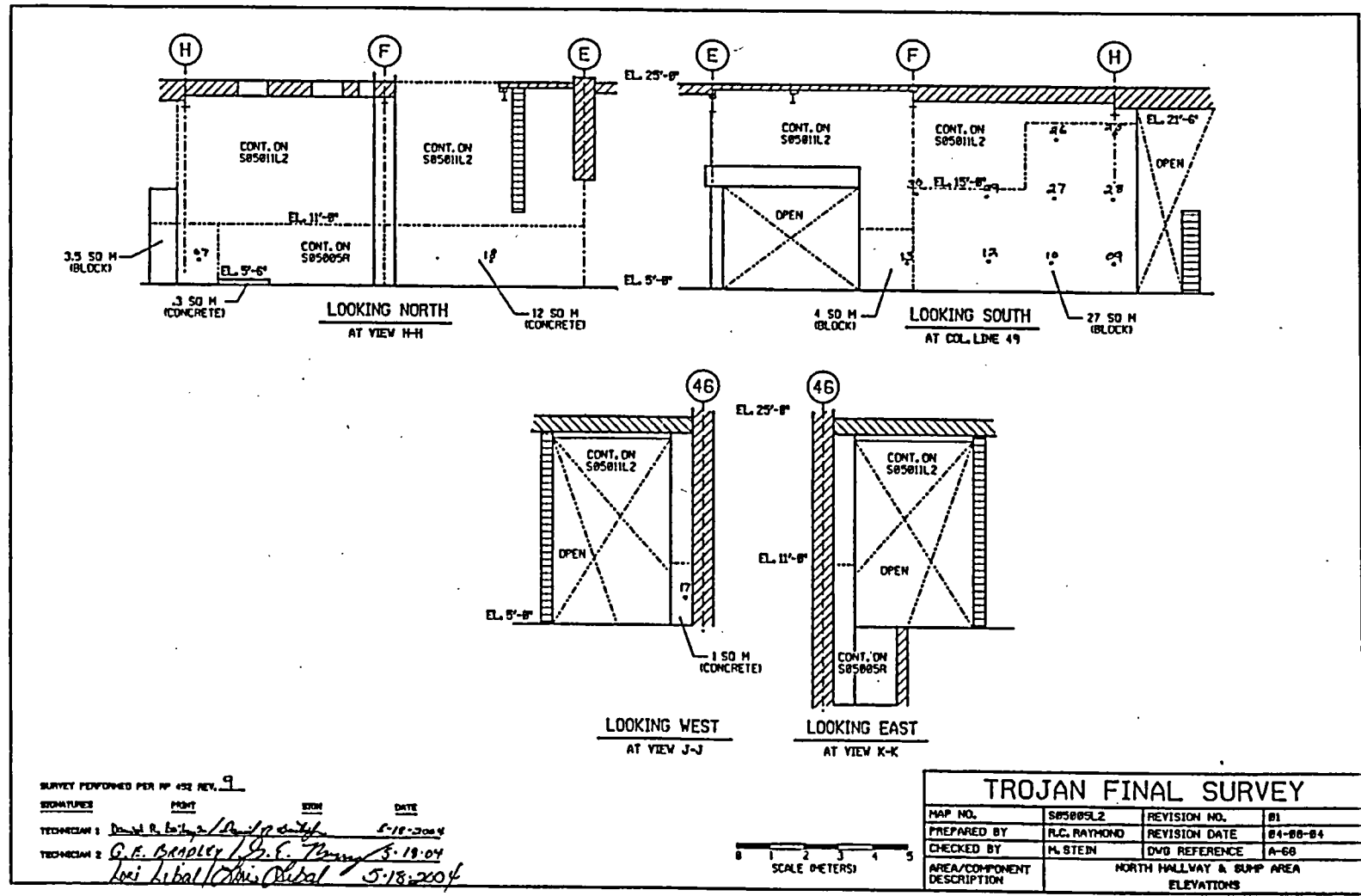


FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05005L
 Survey Unit Name: AB 5' Elevation - North Hallway Floor and Lower Walls

Classification: Class 1
 Size (m²): 119

Static Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05005M
 Survey Unit Name: AB 5' Elevation -
 Central Hallway Floor and Lower Walls

Classification: Class 1
 Size (m²): 152

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|--------------------------|---------------|-------------------------|------------|-----|-----|
| 1 | 33 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 1.306e+003
 Maximum Value : 3.687e+003
 Range : 2.381e+003
 Median : 1.850e+003
 Std. Deviation : 4.865e+002
 Mean : 1.862e+003
 95% UCL : 2.005e+003

Measurement Values

| Location | Value | Location | Value |
|----------|------------|----------|------------|
| 000001 | 2.093e+003 | 000018 | 1.369e+003 |
| 000002 | 1.950e+003 | 000019 | 1.487e+003 |
| 000003 | 2.050e+003 | 000020 | 1.419e+003 |
| 000004 | 2.156e+003 | 000021 | 1.306e+003 |
| 000005 | 1.850e+003 | 000022 | 1.362e+003 |
| 000006 | 2.031e+003 | 000023 | 1.344e+003 |
| 000007 | 1.956e+003 | 000024 | 1.369e+003 |
| 000008 | 2.218e+003 | 000025 | 1.537e+003 |
| 000009 | 2.406e+003 | 000026 | 1.394e+003 |
| 000010 | 2.206e+003 | 000027 | 1.725e+003 |
| 000011 | 2.300e+003 | 000028 | 3.687e+003 |
| 000012 | 1.706e+003 | 000029 | 1.800e+003 |
| 000013 | 2.143e+003 | 000030 | 1.350e+003 |
| 000014 | 1.950e+003 | 000031 | 1.756e+003 |
| 000015 | 2.006e+003 | 000032 | 1.444e+003 |
| 000016 | 2.550e+003 | 000033 | 1.431e+003 |
| 000017 | 2.093e+003 | | |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05005M

Classification: Class 1

Survey Unit Name: AB 5' Elevation -

Size (m²): 152

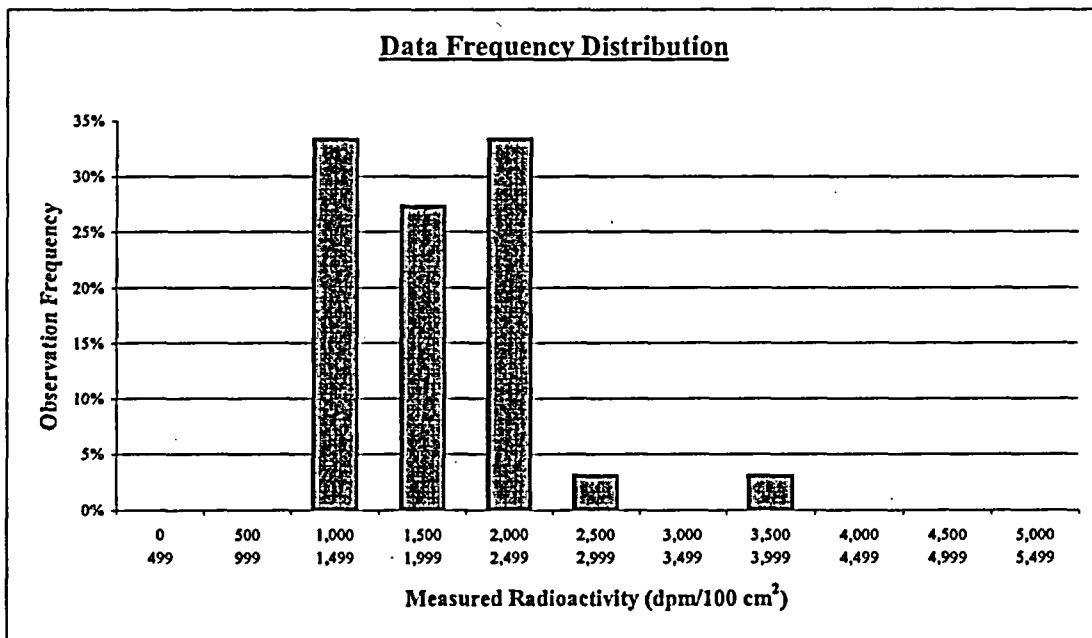
Central Hallway Floor and Lower Walls

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | |
|-------------------------|------------------|---------------------|-------------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? |
| Range | 2,381 | 2,433 | Pass |
| Median | 0.023 | 0.500 | Pass |
| Mean | 1,861 | 6,000 | Pass |
| Std Dev | 487 | 1,500 | Pass |

| Statistical Quantities | |
|------------------------|-------|
| Range: | 2,381 |
| Median: | 1,850 |
| Mean: | 1,861 |
| Std Dev: | 487 |
| Minimum: | 1,306 |
| Maximum: | 3,687 |
| DCGL: | 7,500 |

All data less than DCGL; Sign statistical test not required.



| Plot Parameters | |
|---------------------|-------|
| # of measurements: | 33 |
| # of intervals: | 11 |
| Interval increment: | 500 |
| Minimum: | 0 |
| Maximum: | 5,499 |

| Interval | High End | Low End | Number of Observations | Observation Frequency |
|----------|----------|---------|------------------------|-----------------------|
| 1 | 499 | 0 | 0 | 0% |
| 2 | 999 | 500 | 0 | 0% |
| 3 | 1,499 | 1,000 | 11 | 33% |
| 4 | 1,999 | 1,500 | 9 | 27% |
| 5 | 2,499 | 2,000 | 11 | 33% |
| 6 | 2,999 | 2,500 | 1 | 3% |
| 7 | 3,499 | 3,000 | 0 | 0% |
| 8 | 3,999 | 3,500 | 1 | 3% |
| 9 | 4,499 | 4,000 | 0 | 0% |
| 10 | 4,999 | 4,500 | 0 | 0% |
| 11 | 5,499 | 5,000 | 0 | 0% |
| Total: | | | 33 | 100% |

Comment:
None.

FINAL SURVEY RESULTS SUMMARY

| | |
|---|----------------------------------|
| Survey Unit ID Code: S05005M | Classification: Class 1 |
| Survey Unit Name: AB 5' Elevation – Central Hallway Floor and Lower Walls | Size (m²): 152 |

Judgmental and Miscellaneous Measurement Data

| | |
|--|-----------------------------------|
| Measurement Type: Surface Scanning Beta | Scan Coverage (%): 100 |
| Measurement Units: dpm/100cm ² | Investigation Level: 7,500 |
| Minimum Value: 940 | Maximum Value: 21,610 |

| | |
|--|-----------------------------------|
| Measurement Type: Removable Beta | Number of Measurements: 33 |
| Measurement Units: dpm/100cm ² | Investigation Level: 750 |
| Minimum Value: 49 | Maximum Value: 92 |

Discussion of Anomalous Measurement Data

Investigation Summary

Reason for Investigation: Three scan measurements exceeded the investigation level.

Elevated Measurement Comparison (EMC):

| | |
|--|------------------------|
| DCGL (Investigation Level): | 7,500 |
| Measurement Units: | dpm/100cm ² |
| Maximum Value: | 21,610 |
| Size of Area Exceeding DCGL (m ²): | 0.04 |
| Size of Survey Unit (m ²): | 152 |
| Survey Unit Area >DCGL (%): | 0.02 |
| EMC Value: | 36,750 |

Action Taken: Applied EMC data processing to elevated results for scan locations 118, 119, & 133.

Basis for Action Taken: Three very small localized areas of elevated radioactivity identified during scan surveys are each less than 1 m².

FINAL SURVEY RESULTS SUMMARY

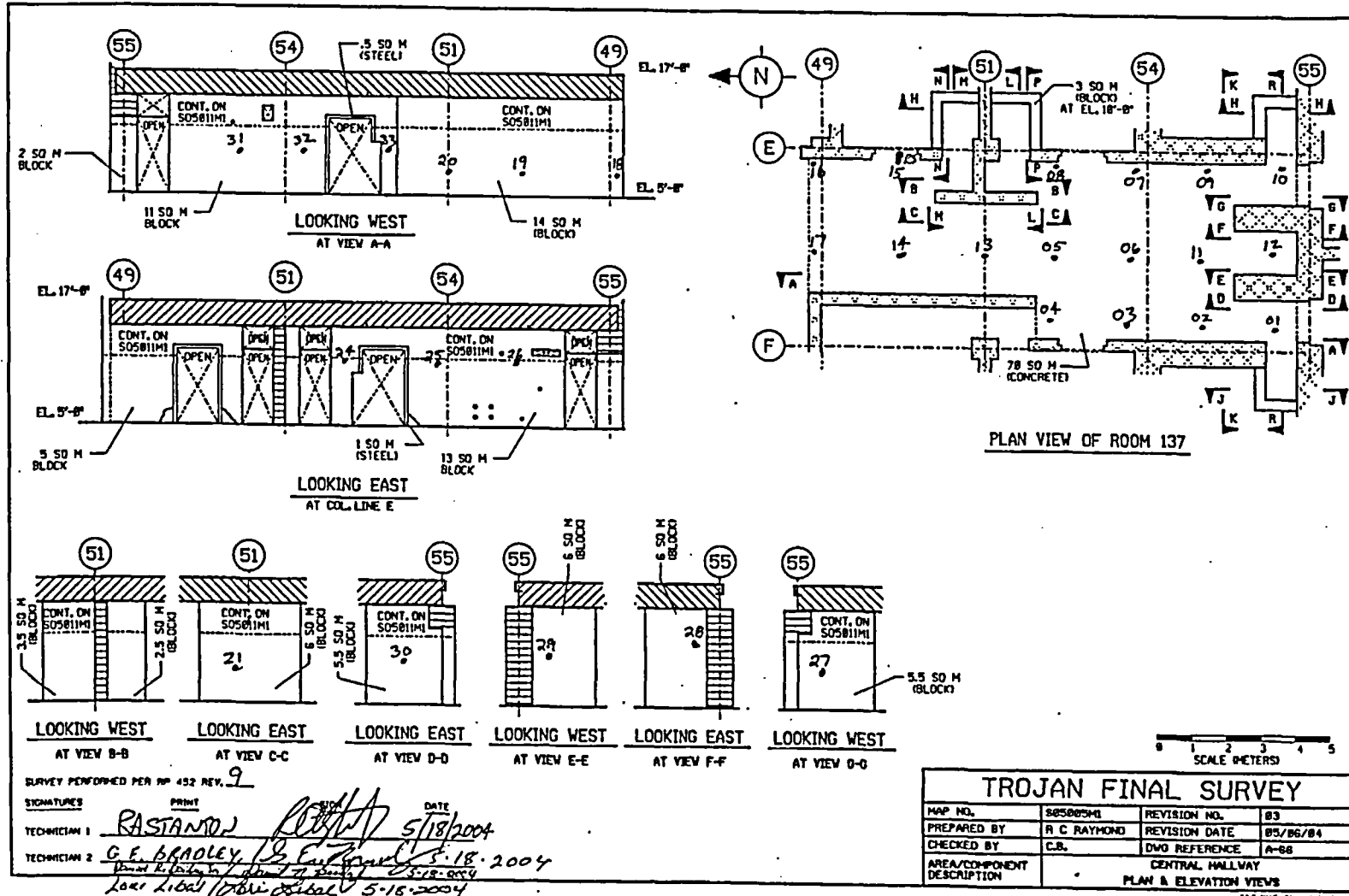
Survey Unit ID Code: S05005M

Survey Unit Name: AB 5' Elevation - Central Hallway Floor and Lower Walls

Classification: Class 1

Size (m²): 152

Static Measurement Locations Map



SURVEY PERFORMED PER MP 452 REV. 9

SIGNATURES PRINT DATE
 TECHNICIAN 1 RASTANOW [Signature] 5/18/2004
 TECHNICIAN 2 G.E. BRADLEY [Signature] 5-18-2004
LORE L. BAKER [Signature] 5-18-2004

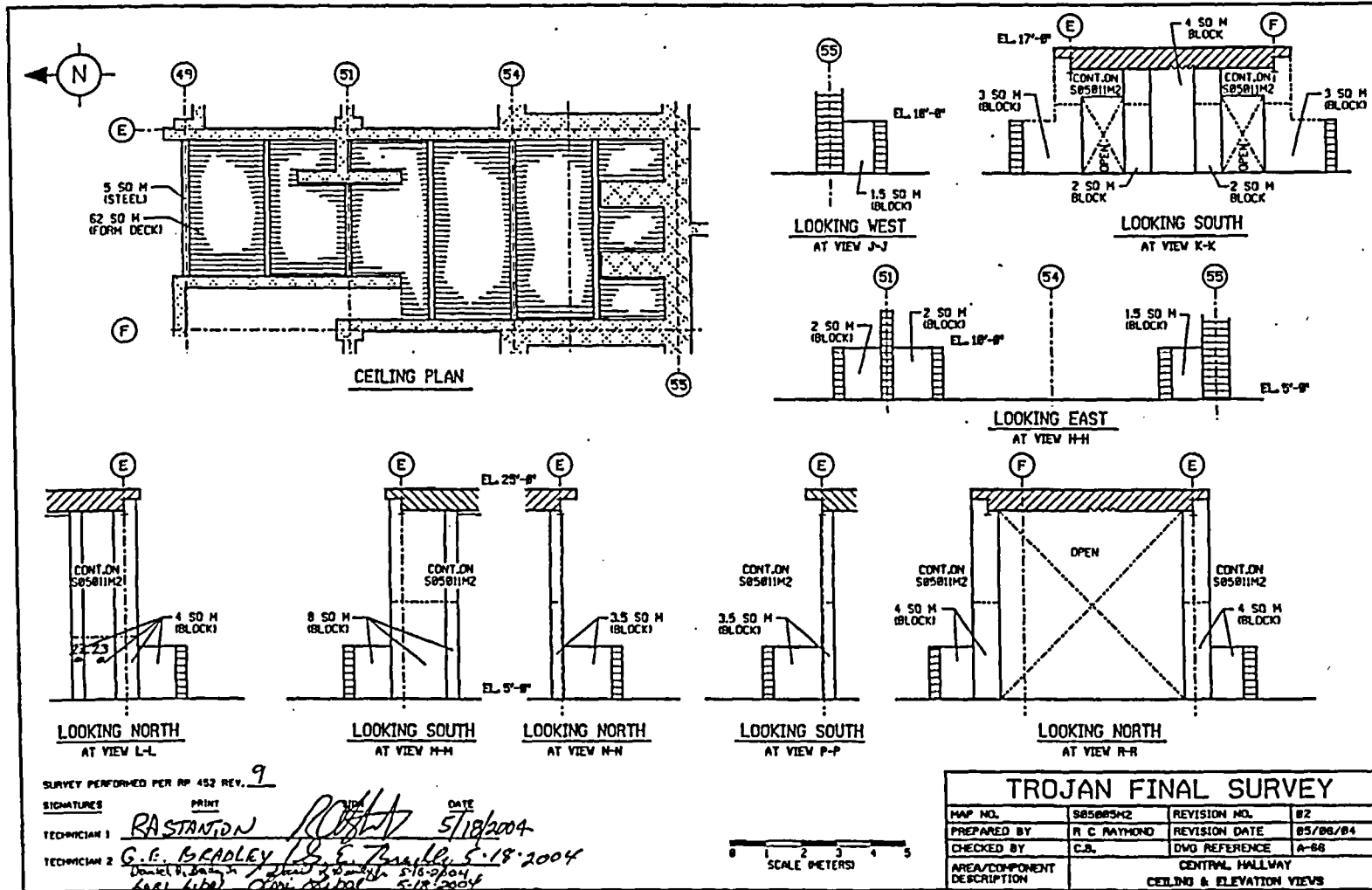
| TROJAN FINAL SURVEY | | | |
|----------------------------|---|---------------|----------|
| MAP NO. | S05005M1 | REVISION NO. | 03 |
| PREPARED BY | R C RAYMOND | REVISION DATE | 05/06/04 |
| CHECKED BY | C.B. | DVD REFERENCE | A-08 |
| AREA/COMPONENT DESCRIPTION | CENTRAL HALLWAY PLAN & ELEVATION VIEWS | | |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05005M
 Survey Unit Name: AB 5' Elevation - Central Hallway Floor and Lower Walls

Classification: Class 1
 Size (m²): 152

Static Measurement Locations Map



SURVEY PERFORMED PER RP 452 REV. 9

| SIGNATURES | PRINT | DATE |
|--------------------|---------------|-----------|
| <i>[Signature]</i> | RASTANTON | 5/18/2004 |
| <i>[Signature]</i> | G.E. BRADLEY | 5-18-2004 |
| <i>[Signature]</i> | DAVID LADICKY | 5/18/2004 |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05005N

Classification: Class 1

Survey Unit Name: AB 5' Elevation -

Size (m²): 140

"A" RHR Heat Exchanger Room Floor and Lower Walls

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|-----------------------|------------|-------------------------|------------|-----|-----|
| 1 | 30 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 6.081e+002
 Maximum Value : 4.907e+003
 Range : 4.299e+003
 Median : 9.713e+002
 Std. Deviation : 9.158e+002
 Mean : 1.243e+003
 95% UCL : 1.526e+003

Measurement Values

| Location | Value | Location | Value |
|----------|------------|----------|------------|
| 000001 | 1.358e+003 | 000018 | 1.240e+003 |
| 000002 | 1.260e+003 | 000019 | 8.687e+002 |
| 000003 | 1.291e+003 | 000020 | 8.884e+002 |
| 000004 | 1.117e+003 | 000021 | 9.634e+002 |
| 000005 | 7.937e+002 | 000022 | 8.529e+002 |
| 000006 | 1.050e+003 | 000023 | 7.423e+002 |
| 000007 | 8.213e+002 | 000024 | 8.608e+002 |
| 000008 | 9.792e+002 | 000025 | 8.213e+002 |
| 000009 | 9.476e+002 | 000026 | 1.106e+003 |
| 000010 | 1.181e+003 | 000027 | 7.818e+002 |
| 000011 | 8.845e+002 | 000028 | 6.081e+002 |
| 000012 | 1.046e+003 | 000029 | 4.907e+003 |
| 000013 | 1.129e+003 | 000030 | 4.074e+003 |
| 000014 | 1.465e+003 | | |
| 000015 | 9.161e+002 | | |
| 000016 | 1.493e+003 | | |
| 000017 | 8.331e+002 | | |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05005N

Classification: Class 1

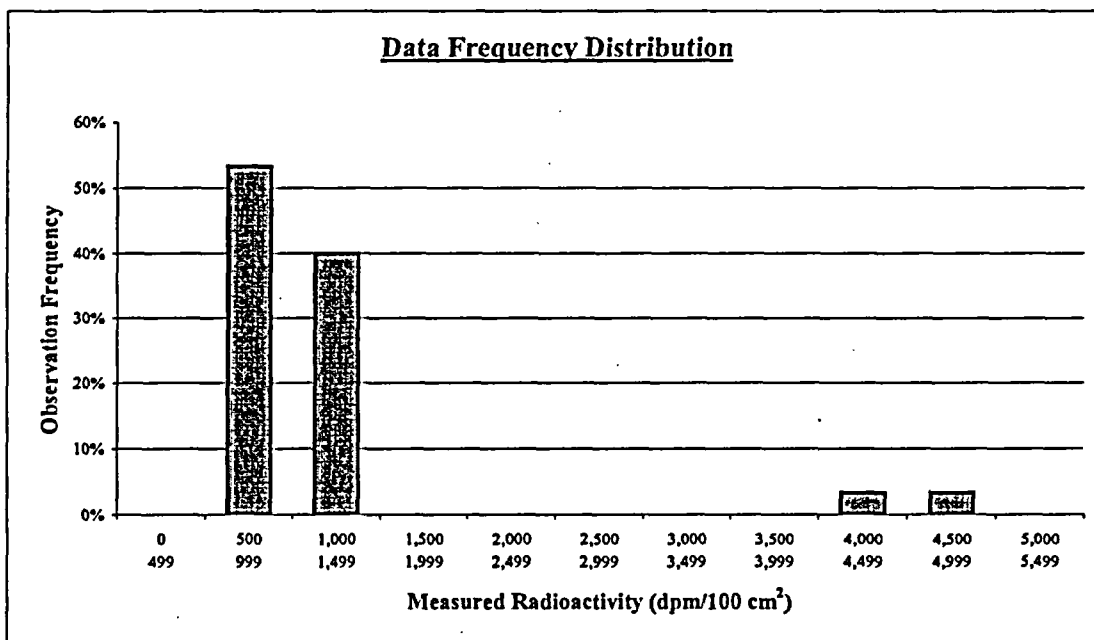
Survey Unit Name: AB 5' Elevation -

Size (m²): 140

"A" RHR Heat Exchanger Room Floor and Lower Walls

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | | Statistical Quantities | |
|--|------------------|---------------------|-------------|------------------------|-------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? | Range: | 4,299 |
| Range | 4,299 | 4,579 | Pass | Median: | 971 |
| Median | 0.296 | 0.500 | Pass | Mean: | 1,243 |
| Mean | 1,243 | 6,000 | Pass | Std Dev: | 916 |
| Std Dev | 916 | 1,500 | Pass | Minimum: | 608 |
| | | | | Maximum: | 4,907 |
| All data less than DCGL; Sign statistical test not required. | | | | DCGL: | 7,500 |



| Plot Parameters | |
|---------------------|-------|
| # of measurements: | 30 |
| # of intervals: | 11 |
| Interval increment: | 500 |
| Minimum: | 0 |
| Maximum: | 5,499 |

| Interval | High End | Low End | Number of Observations | Observation Frequency |
|----------|----------|---------|------------------------|-----------------------|
| 1 | 499 | 0 | 0 | 0% |
| 2 | 999 | 500 | 16 | 53% |
| 3 | 1,499 | 1,000 | 12 | 40% |
| 4 | 1,999 | 1,500 | 0 | 0% |
| 5 | 2,499 | 2,000 | 0 | 0% |
| 6 | 2,999 | 2,500 | 0 | 0% |
| 7 | 3,499 | 3,000 | 0 | 0% |
| 8 | 3,999 | 3,500 | 0 | 0% |
| 9 | 4,499 | 4,000 | 1 | 3% |
| 10 | 4,999 | 4,500 | 1 | 3% |
| 11 | 5,499 | 5,000 | 0 | 0% |
| Total: | | | 30 | 100% |

Comment:

Right skewed data set due to use of two different detectors: GFP detector for values less than 1,500 dpm; pancake GM detector for the 2 values greater than 4,000 dpm.

FINAL SURVEY RESULTS SUMMARY

| | |
|---|----------------------------------|
| Survey Unit ID Code: S05005N | Classification: Class 1 |
| Survey Unit Name: AB 5' Elevation – "A" RHR Heat Exchanger Room Floor and Lower Walls | Size (m²): 140 |

Judgmental and Miscellaneous Measurement Data

| | |
|--|-----------------------------------|
| Measurement Type: Surface Scanning Beta | Scan Coverage (%): 100 |
| Measurement Units: dpm/100cm ² | Investigation Level: 7,500 |
| Minimum Value: 984 | Maximum Value: 8,109 |

| | |
|--|-----------------------------------|
| Measurement Type: Removable Beta | Number of Measurements: 30 |
| Measurement Units: dpm/100cm ² | Investigation Level: 750 |
| Minimum Value: 5 | Maximum Value: 20 |

Discussion of Anomalous Measurement Data

Investigation Summary

Reason for Investigation: Eleven scan measurements exceeded the investigation level.

Elevated Measurement Comparison (EMC):

| | |
|---|------------------------|
| DCGL (Investigation Level): | 7,500 |
| Measurement Units: | dpm/100cm ² |
| Maximum Value: | 39,500 |
| Size of Area Exceeding DCGL (m²): | 0.09 |
| Size of Survey Unit (m²): | 140 |
| Survey Unit Area >DCGL (%): | 0.06 |
| EMC Value: | 36,750 |

Action Taken: Corrected measurement values for scan locations per guidance in memo FS-018-03; used similar method for measurements obtained with a 43-68 gas flow proportional detector. Replaced original scan results in SDMS with the corrected results. Applied EMC data processing to elevated corrected results.

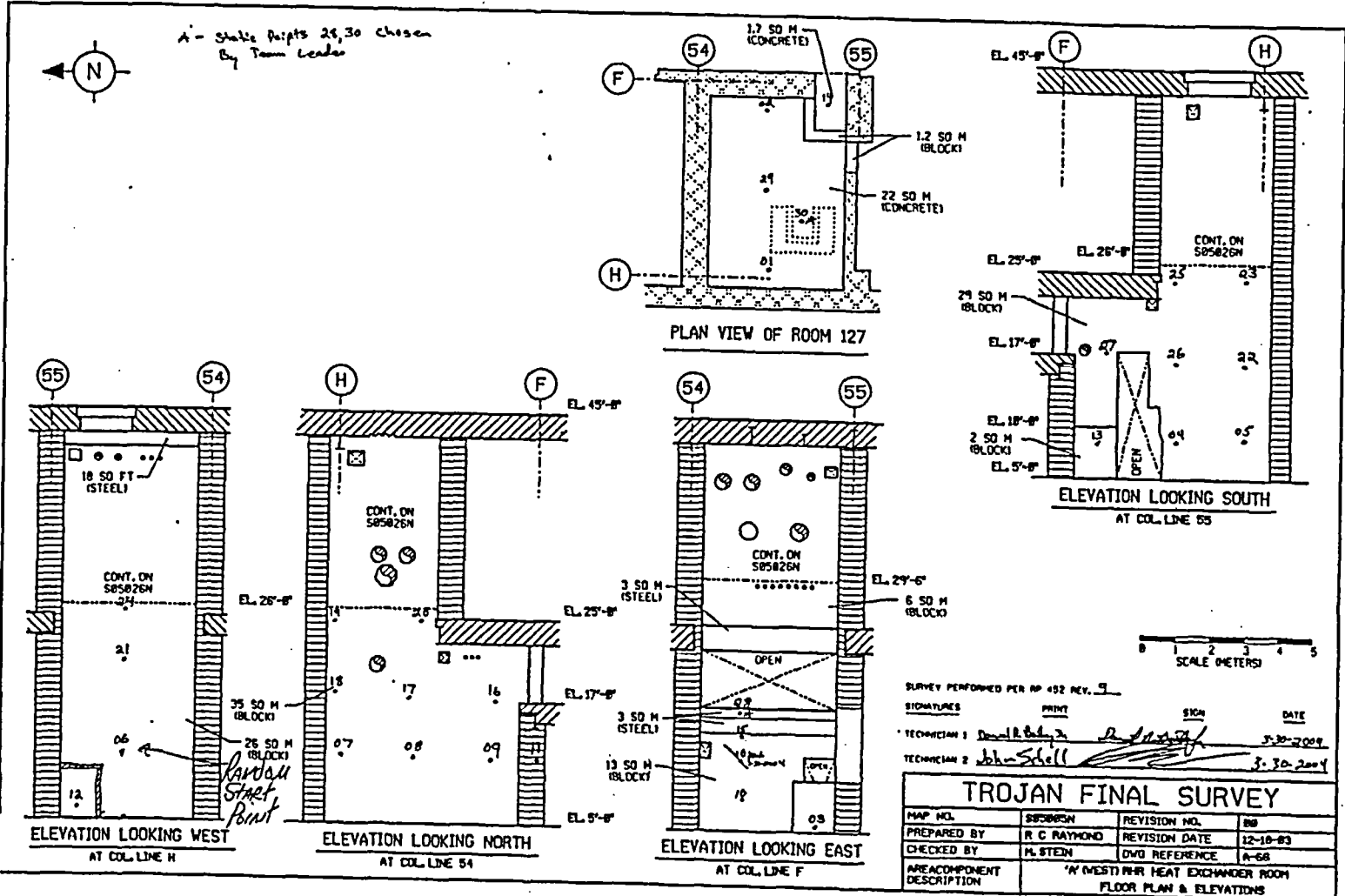
Basis for Action Taken: Technical basis memorandum FS-018-03 provides guidance for correcting SDMS determined scan results for locations that exceed the investigation level by subtracting instrument background from the field results.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05005N
 Survey Unit Name: AB 5' Elevation - "A" RHR Heat Exchanger Room Floor and Lower Walls

Classification: Class 1
 Size (m²): 140

Static Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05005P

Classification: Class 1

Survey Unit Name: AB 5' Elevation -

Size (m²): 77

"A" Containment Spray Pump Room Floor and Lower Walls

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|-----------------------|------------|-------------------------|------------|-----|-----|
| 1 | 42 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 7.291e+002
 Maximum Value : 3.238e+003
 Range : 2.509e+003
 Median : 9.683e+002
 Std. Deviation : 6.642e+002
 Mean : 1.329e+003
 95% UCL : 1.501e+003

Measurement Values

| Location | Value | Location | Value | Location | Value |
|----------|------------|----------|------------|----------|------------|
| 000001 | 2.368e+003 | 000018 | 8.620e+002 | 000035 | 9.607e+002 |
| 000002 | 2.457e+003 | 000019 | 8.240e+002 | 000036 | 7.974e+002 |
| 000003 | 2.184e+003 | 000020 | 7.937e+002 | 000037 | 9.759e+002 |
| 000004 | 2.038e+003 | 000021 | 8.506e+002 | 000038 | 7.291e+002 |
| 000005 | 2.140e+003 | 000022 | 8.316e+002 | 000039 | 7.595e+002 |
| 000006 | 3.238e+003 | 000023 | 9.000e+002 | 000040 | 7.823e+002 |
| 000007 | 2.210e+003 | 000024 | 8.392e+002 | 000041 | 7.405e+002 |
| 000008 | 2.241e+003 | 000025 | 9.114e+002 | 000042 | 7.709e+002 |
| 000009 | 2.000e+003 | 000026 | 1.006e+003 | | |
| 000010 | 1.867e+003 | 000027 | 9.076e+002 | | |
| 000011 | 2.292e+003 | 000028 | 9.949e+002 | | |
| 000012 | 2.102e+003 | 000029 | 8.050e+002 | | |
| 000013 | 2.025e+003 | 000030 | 8.316e+002 | | |
| 000014 | 8.582e+002 | 000031 | 1.272e+003 | | |
| 000015 | 1.238e+003 | 000032 | 1.037e+003 | | |
| 000016 | 8.202e+002 | 000033 | 1.151e+003 | | |
| 000017 | 8.278e+002 | 000034 | 1.557e+003 | | |

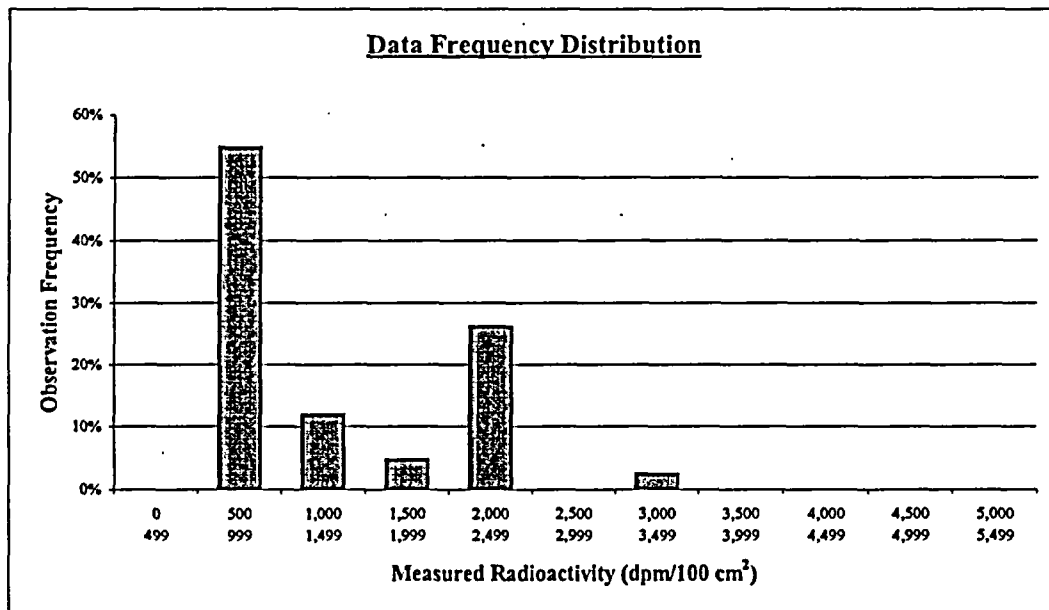
FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05005P
 Survey Unit Name: AB 5' Elevation –
 "A" Containment Spray Pump Room Floor and Lower Walls

Classification: Class 1
 Size (m²): 77

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | | Statistical Quantities | |
|--|------------------|---------------------|-------------------|------------------------|-------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? | Range: | 2,509 |
| Range | 2,509 | 3,321 | Pass | Median: | 969 |
| Median | 0.542 | 0.500 | See comment below | Mean: | 1,329 |
| Mean | 1,329 | 6,000 | Pass | Std Dev: | 664 |
| Std Dev | 664 | 1,500 | Pass | Minimum: | 729 |
| All data less than DCGL; Sign statistical test not required. | | | | Maximum: | 3,238 |
| | | | | DCGL: | 7,500 |



| Plot Parameters | Interval | High End | Low End | Number of Observations | Observation Frequency |
|-------------------------|----------|----------|---------|------------------------|-----------------------|
| # of measurements: 42 | 1 | 499 | 0 | 0 | 0% |
| # of intervals: 11 | 2 | 999 | 500 | 23 | 55% |
| Interval increment: 500 | 3 | 1,499 | 1,000 | 5 | 12% |
| Minimum: 0 | 4 | 1,999 | 1,500 | 2 | 5% |
| Maximum: 5,499 | 5 | 2,499 | 2,000 | 11 | 26% |
| | 6 | 2,999 | 2,500 | 0 | 0% |
| | 7 | 3,499 | 3,000 | 1 | 2% |
| | 8 | 3,999 | 3,500 | 0 | 0% |
| | 9 | 4,499 | 4,000 | 0 | 0% |
| | 10 | 4,999 | 4,500 | 0 | 0% |
| | 11 | 5,499 | 5,000 | 0 | 0% |
| | Total: | | | 42 | 100% |

Comment:
 The data set contains values from both smooth and scabbled concrete surfaces, resulting in an expected bimodal distribution, due to different detector efficiency factors for the 2 geometries.

The test failure does not represent an invalid data set.
 This statistical comparison is not meaningful for an expected bimodal distribution. All measurement values are valid and accepted.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05005P **Classification:** Class 1
Survey Unit Name: AB 5' Elevation – **Size (m²):** 77
"A" Containment Spray Pump Room Floor and Lower Walls

Judgmental and Miscellaneous Measurement Data

Measurement Type: Surface Scanning Beta **Scan Coverage (%):** 100
Measurement Units: dpm/100cm² **Investigation Level:** 7,500
Minimum Value: 874 **Maximum Value:** 33,330

Measurement Type: Removable Beta **Number of Measurements:** 42
Measurement Units: dpm/100cm² **Investigation Level:** 750
Minimum Value: 3 **Maximum Value:** 25

Discussion of Anomalous Measurement Data

Investigation Summary

Reason for Investigation: Seven scan measurements exceeded the investigation level.

Elevated Measurement Comparison (EMC):

| | |
|---|------------------------|
| DCGL (Investigation Level): | 7,500 |
| Measurement Units: | dpm/100cm ² |
| Maximum Value: | 33,000 |
| Size of Area Exceeding DCGL (m²): | 0.05 |
| Size of Survey Unit (m²): | 70 |
| Survey Unit Area >DCGL (%): | 0.07 |
| EMC Value: | 36,750 |

Action Taken: Corrected measurement values for scan locations per guidance in memo FS-018-03; used similar method for measurements obtained with a 43-68 gas flow proportional detector. Replaced original scan results in SDMS with the corrected results. Applied EMC data processing to elevated corrected results.

Basis for Action Taken: Technical basis memorandum FS-018-03 provides guidance for correcting SDMS determined scan results for locations that exceed the investigation level by subtracting instrument background from the field results.

FINAL SURVEY RESULTS SUMMARY

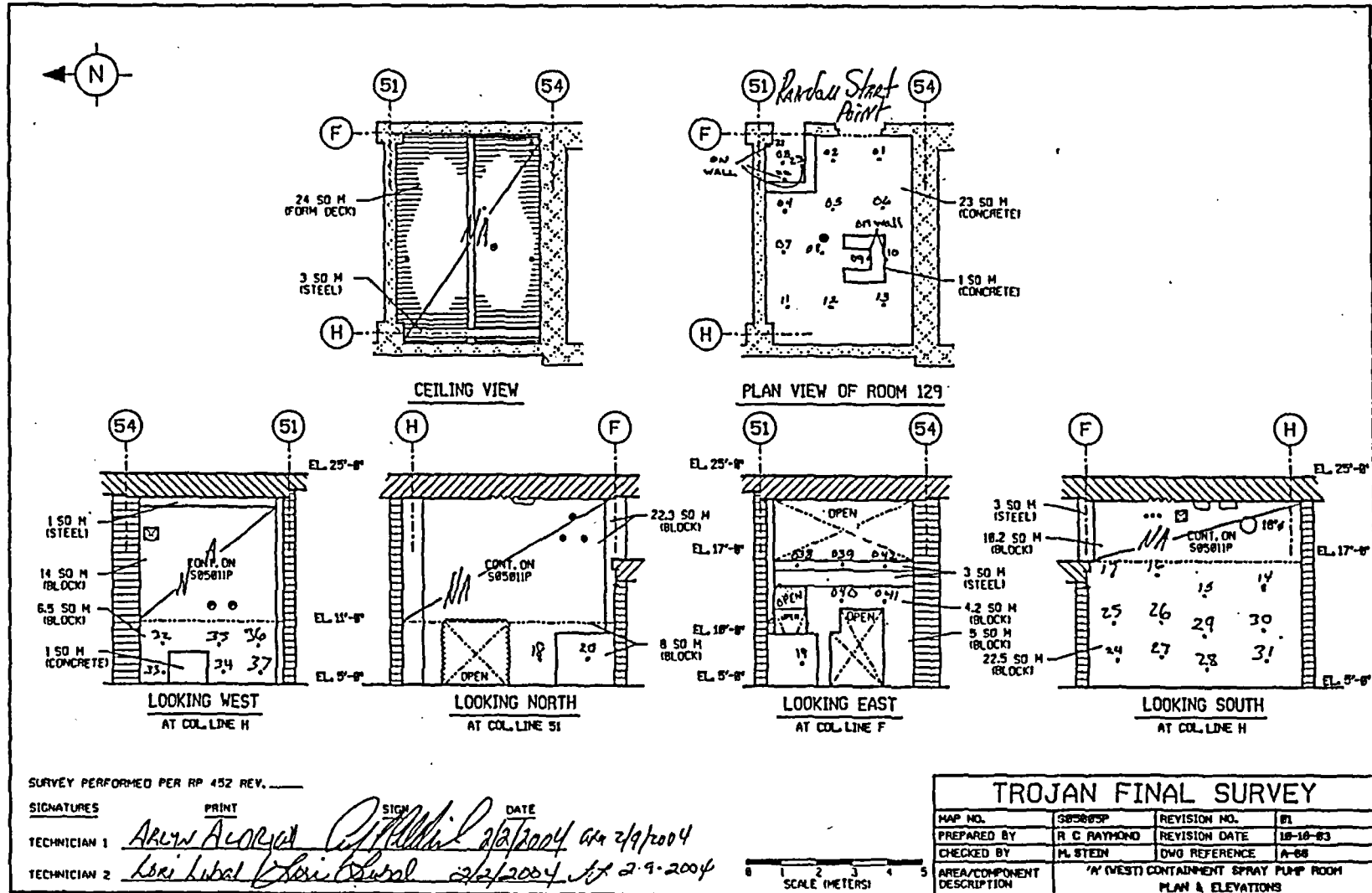
Survey Unit ID Code: S05005P

Survey Unit Name: AB 5' Elevation - "A" Containment Spray Pump Room Floor and Lower Walls

Classification: Class 1

Size (m²): 77

Static Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05005Q Classification: Class 1
 Survey Unit Name: AB 5' Elevation - Size (m²): 214
 Dirty Waste Tank and Pump Rooms, Floor and Walls

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|-----------------------|------------|-------------------------|------------|-----|-----|
| 1 | 38 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 1.212e+003
 Maximum Value : 2.787e+003
 Range : 1.575e+003
 Median : 1.675e+003
 Std. Deviation : 3.954e+002
 Mean : 1.742e+003
 95% UCL : 1.851e+003

Measurement Values

| Location | Value | Location | Value | Location | Value |
|----------|------------|----------|------------|----------|------------|
| 000001 | 1.469e+003 | 000018 | 1.319e+003 | 000035 | 1.312e+003 |
| 000002 | 1.681e+003 | 000019 | 1.875e+003 | 000036 | 1.431e+003 |
| 000003 | 2.106e+003 | 000020 | 1.394e+003 | 000037 | 2.312e+003 |
| 000004 | 1.781e+003 | 000021 | 2.162e+003 | 000038 | 1.269e+003 |
| 000005 | 1.625e+003 | 000022 | 2.037e+003 | | |
| 000006 | 2.012e+003 | 000023 | 2.012e+003 | | |
| 000007 | 1.750e+003 | 000024 | 1.369e+003 | | |
| 000008 | 2.787e+003 | 000025 | 1.212e+003 | | |
| 000009 | 2.081e+003 | 000026 | 1.462e+003 | | |
| 000010 | 2.081e+003 | 000027 | 1.456e+003 | | |
| 000011 | 1.900e+003 | 000028 | 1.237e+003 | | |
| 000012 | 1.950e+003 | 000029 | 1.562e+003 | | |
| 000013 | 1.669e+003 | 000030 | 2.362e+003 | | |
| 000014 | 1.575e+003 | 000031 | 1.356e+003 | | |
| 000015 | 1.369e+003 | 000032 | 2.006e+003 | | |
| 000016 | 2.393e+003 | 000033 | 2.175e+003 | | |
| 000017 | 1.431e+003 | 000034 | 1.231e+003 | | |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05005Q

Classification: Class 1

Survey Unit Name: AB 5' Elevation -

Size (m²): 214

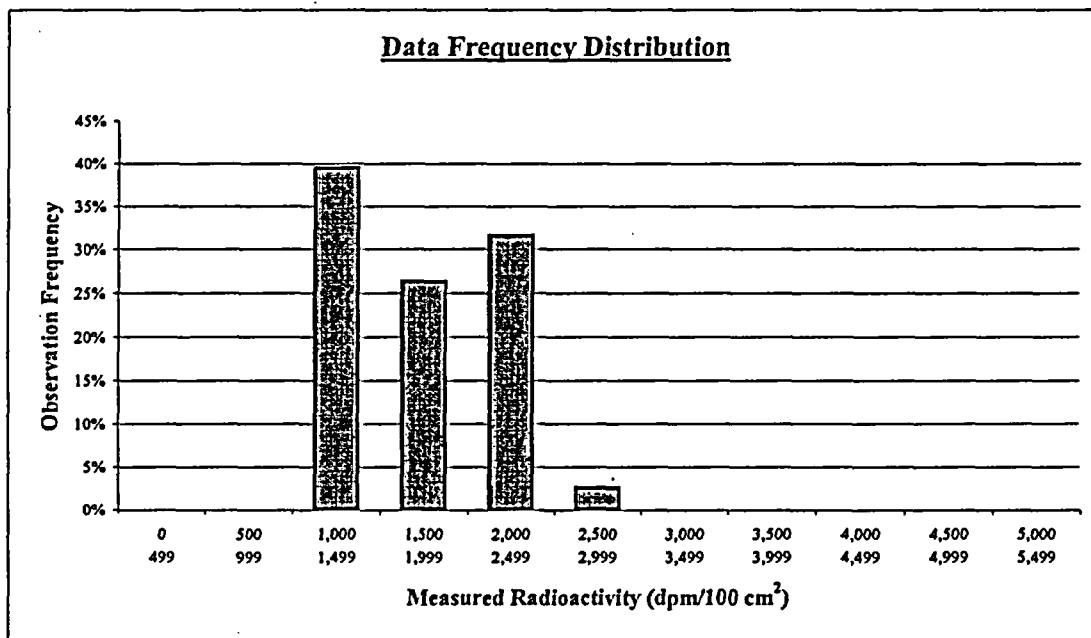
Dirty Waste Tank and Pump Rooms, Floor and Walls

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | |
|-------------------------|------------------|---------------------|-------------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? |
| Range | 1,575 | 1,977 | Pass |
| Median | 0.170 | 0.500 | Pass |
| Mean | 1,742 | 6,000 | Pass |
| Std Dev | 395 | 1,500 | Pass |

| Statistical Quantities | |
|------------------------|-------|
| Range: | 1,575 |
| Median: | 1,675 |
| Mean: | 1,742 |
| Std Dev: | 395 |
| Minimum: | 1,212 |
| Maximum: | 2,787 |
| DCGL: | 7,500 |

All data less than DCGL; Sign statistical test not required.



| Plot Parameters | |
|---------------------|-------|
| # of measurements: | 38 |
| # of intervals: | 11 |
| Interval increment: | 500 |
| Minimum: | 0 |
| Maximum: | 5,499 |

Comment:
None.

| Interval | High End | Low End | Number of Observations | Observation Frequency |
|----------|----------|---------|------------------------|-----------------------|
| 1 | 499 | 0 | 0 | 0% |
| 2 | 999 | 500 | 0 | 0% |
| 3 | 1,499 | 1,000 | 15 | 39% |
| 4 | 1,999 | 1,500 | 10 | 26% |
| 5 | 2,499 | 2,000 | 12 | 32% |
| 6 | 2,999 | 2,500 | 1 | 3% |
| 7 | 3,499 | 3,000 | 0 | 0% |
| 8 | 3,999 | 3,500 | 0 | 0% |
| 9 | 4,499 | 4,000 | 0 | 0% |
| 10 | 4,999 | 4,500 | 0 | 0% |
| 11 | 5,499 | 5,000 | 0 | 0% |
| Total: | | | 38 | 100% |

FINAL SURVEY RESULTS SUMMARY

| | |
|--|----------------------------------|
| Survey Unit ID Code: S05005Q | Classification: Class 1 |
| Survey Unit Name: AB 5' Elevation – Dirty Waste Tank and Pump Rooms, Floor and Walls | Size (m²): 214 |

Judgmental and Miscellaneous Measurement Data

| | |
|--|-----------------------------------|
| Measurement Type: Surface Scanning Beta | Scan Coverage (%): 100 |
| Measurement Units: dpm/100cm ² | Investigation Level: 7,500 |
| Minimum Value: 1,163 | Maximum Value: 17,260 |

| | |
|--|-----------------------------------|
| Measurement Type: Removable Beta | Number of Measurements: 38 |
| Measurement Units: dpm/100cm ² | Investigation Level: 750 |
| Minimum Value: 2 | Maximum Value: 15 |

Discussion of Anomalous Measurement Data

Investigation Summary

Reason for Investigation: Thirty-seven scan measurements exceeded the investigation level.

Elevated Measurement Comparison (EMC):

| | |
|---|------------------------|
| DCGL (Investigation Level): | 7,500 |
| Measurement Units: | dpm/100cm ² |
| Maximum Value: | 45,850 |
| Size of Area Exceeding DCGL (m²): | 0.55 |
| Size of Survey Unit (m²): | 214 |
| Survey Unit Area >DCGL (%): | 0.26 |
| EMC Value: | 36,750 |

Action Taken: Corrected measurement values for scan locations per guidance in memo FS-018-03; used similar method for measurements obtained with a 43-68 gas flow proportional detector. Deleted scan results for areas to be remediated. Replaced original scan results in SDMS with the corrected results for others. Rescanned remediated areas. Applied EMC data processing to corrected scan locations that remain elevated.

Basis for Action Taken: Technical basis memorandum FS-018-03 provides guidance for correcting SDMS determined scan results for locations that exceed the investigation level by subtracting instrument background from the field results.

FINAL SURVEY RESULTS SUMMARY

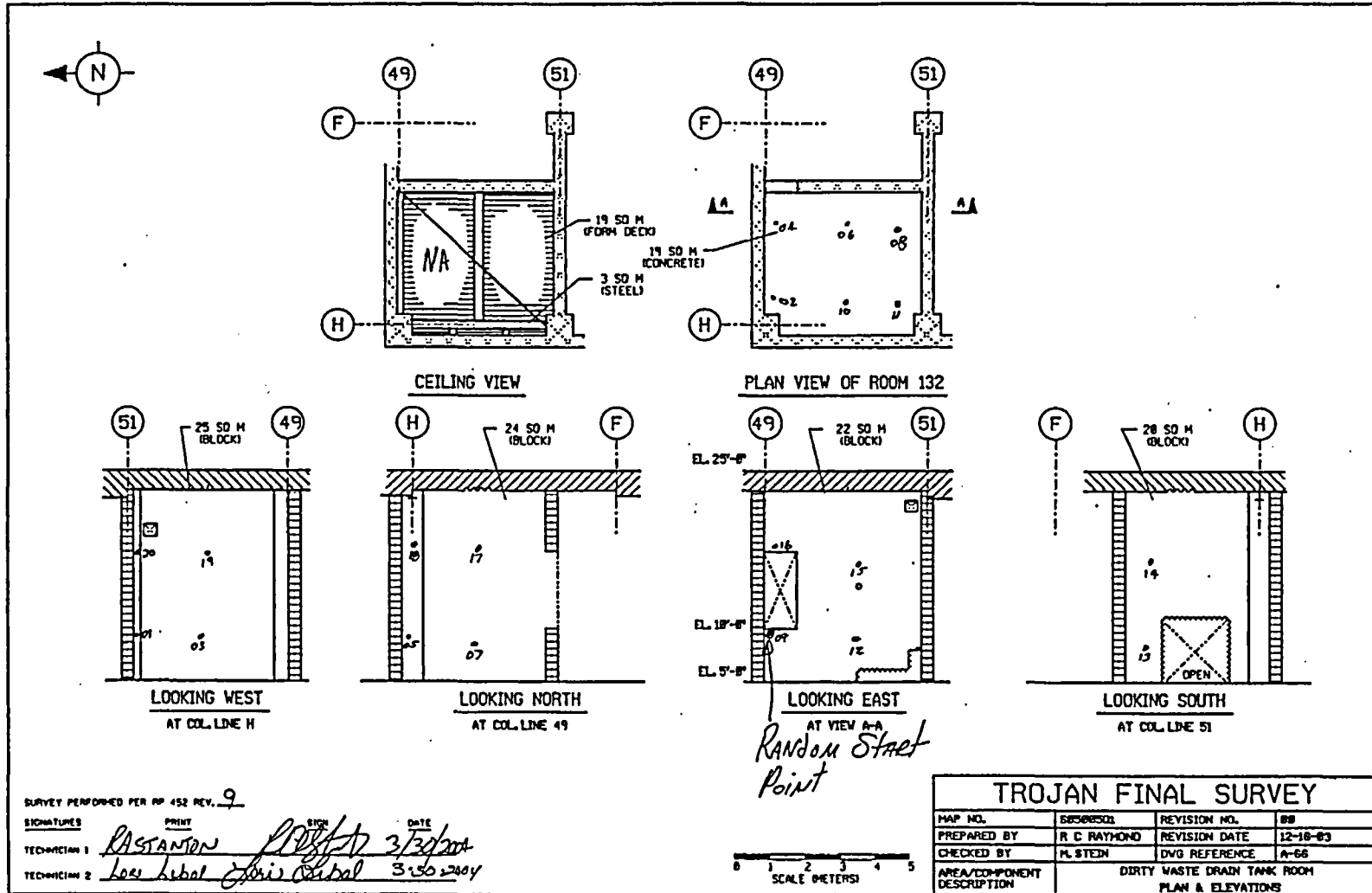
Survey Unit ID Code: S05005Q

Survey Unit Name: AB 5' Elevation - Dirty Waste Tank and Pump Rooms, Floor and Walls

Classification: Class 1

Size (m²): 214

Static Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

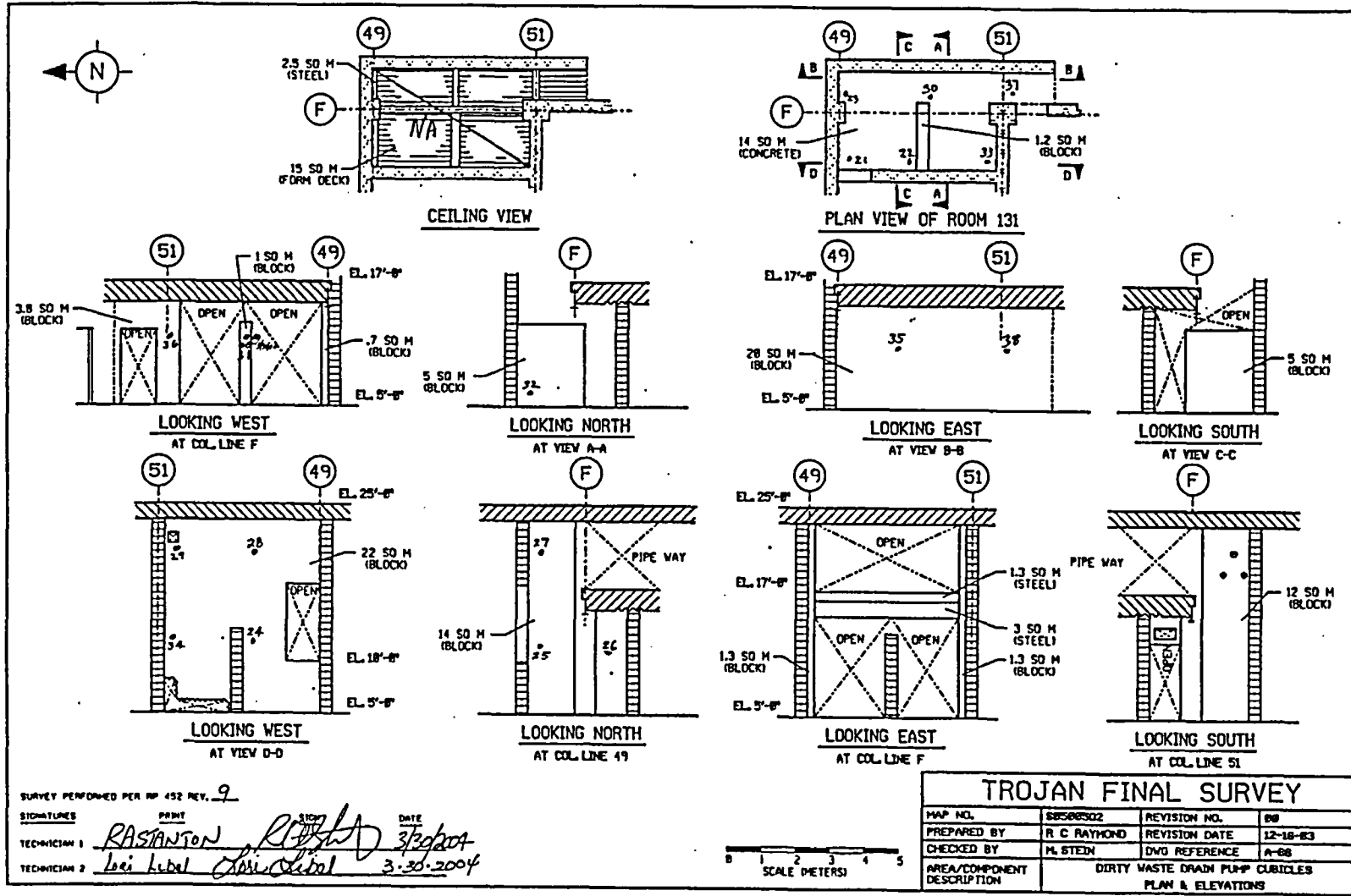
Survey Unit ID Code: S05005Q

Survey Unit Name: AB 5' Elevation – Dirty Waste Tank and Pump Rooms, Floor and Walls

Classification: Class 1

Size (m²): 214

Static Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05005R
 Survey Unit Name: AB 5' Elevation -
 Sump Floor, Walls, and Curb

Classification: Class 1
 Size (m²): 49

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|--------------------------|---------------|-------------------------|------------|-----|-----|
| 1 | 30 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 1.656e+003
 Maximum Value : 2.987e+003
 Range : 1.331e+003
 Median : 1.944e+003
 Std. Deviation : 3.262e+002
 Mean : 2.065e+003
 95% UCL : 2.166e+003

Measurement Values

| Location | Value | Location | Value |
|----------|------------|----------|------------|
| 000001 | 1.769e+003 | 000018 | 2.468e+003 |
| 000002 | 1.787e+003 | 000019 | 2.131e+003 |
| 000003 | 1.887e+003 | 000020 | 1.806e+003 |
| 000004 | 1.937e+003 | 000021 | 2.681e+003 |
| 000005 | 1.981e+003 | 000022 | 1.800e+003 |
| 000006 | 2.800e+003 | 000023 | 2.106e+003 |
| 000007 | 1.812e+003 | 000024 | 2.137e+003 |
| 000008 | 1.919e+003 | 000025 | 2.075e+003 |
| 000009 | 2.281e+003 | 000026 | 1.656e+003 |
| 000010 | 1.875e+003 | 000027 | 2.093e+003 |
| 000011 | 2.512e+003 | 000028 | 2.987e+003 |
| 000012 | 1.950e+003 | 000029 | 1.812e+003 |
| 000013 | 2.193e+003 | 000030 | 1.975e+003 |
| 000014 | 1.919e+003 | | |
| 000015 | 1.875e+003 | | |
| 000016 | 1.800e+003 | | |
| 000017 | 1.925e+003 | | |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05005R
 Survey Unit Name: AB 5' Elevation -
 Sump Floor, Walls, and Curb

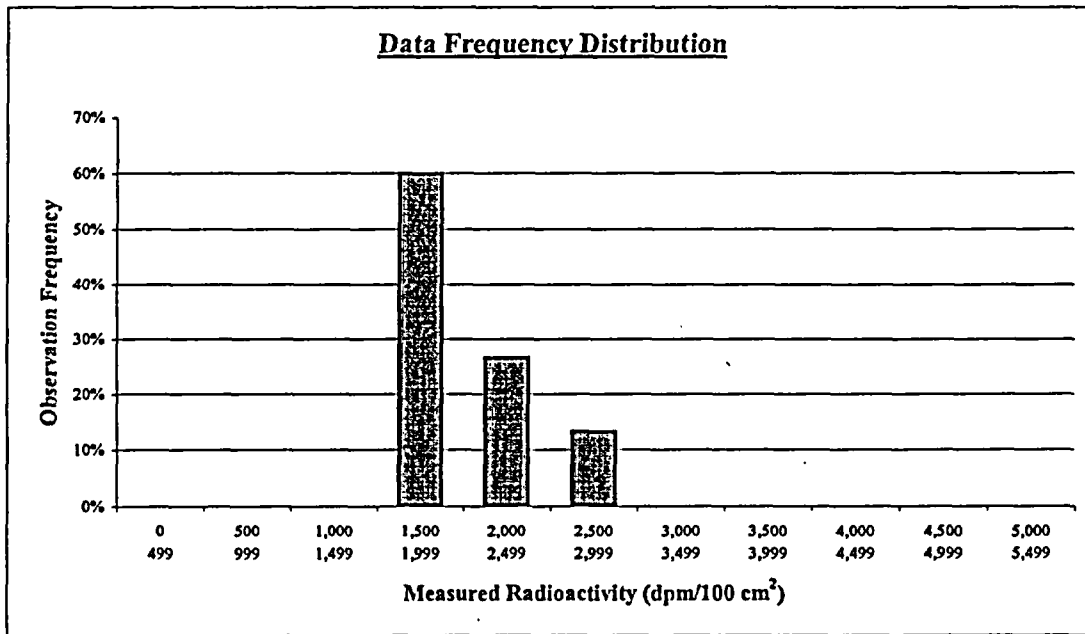
Classification: Class 1
 Size (m²): 49

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | |
|-------------------------|------------------|---------------------|-------------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? |
| Range | 1,331 | 1,631 | Pass |
| Median | 0.372 | 0.500 | Pass |
| Mean | 2,065 | 6,000 | Pass |
| Std Dev | 326 | 1,500 | Pass |

All data less than DCGL; Sign statistical test not required.

| Statistical Quantities | |
|------------------------|-------|
| Range: | 1,331 |
| Median: | 1,944 |
| Mean: | 2,065 |
| Std Dev: | 326 |
| Minimum: | 1,656 |
| Maximum: | 2,987 |
| DCGL: | 7,500 |



| Plot Parameters | |
|---------------------|-------|
| # of measurements: | 30 |
| # of intervals: | 11 |
| Interval increment: | 500 |
| Minimum: | 0 |
| Maximum: | 5,499 |

Comment:
None.

| Interval | High End | Low End | Number of Observations | Observation Frequency |
|----------|----------|---------|------------------------|-----------------------|
| 1 | 499 | 0 | 0 | 0% |
| 2 | 999 | 500 | 0 | 0% |
| 3 | 1,499 | 1,000 | 0 | 0% |
| 4 | 1,999 | 1,500 | 18 | 60% |
| 5 | 2,499 | 2,000 | 8 | 27% |
| 6 | 2,999 | 2,500 | 4 | 13% |
| 7 | 3,499 | 3,000 | 0 | 0% |
| 8 | 3,999 | 3,500 | 0 | 0% |
| 9 | 4,499 | 4,000 | 0 | 0% |
| 10 | 4,999 | 4,500 | 0 | 0% |
| 11 | 5,499 | 5,000 | 0 | 0% |
| Total: | | | 30 | 100% |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05005R
 Survey Unit Name: AB 5' Elevation –
 Sump Floor, Walls, and Curb

Classification: Class 1
 Size (m²): 49

Judgmental and Miscellaneous Measurement Data

Measurement Type: Surface Scanning Beta
 Measurement Units: dpm/100cm²
 Minimum Value: 1,615

Scan Coverage (%): 100
 Investigation Level: 7,500
 Maximum Value: 9,437

Measurement Type: Removable Beta
 Measurement Units: dpm/100cm²
 Minimum Value: 2

Number of Measurements: 30
 Investigation Level: 750
 Maximum Value: 23

Discussion of Anomalous Measurement Data

Investigation Summary

Reason for Investigation: Seven scan measurements exceeded the investigation level.

Elevated Measurement Comparison (EMC):

| | |
|--|------------------------|
| DCGL (Investigation Level): | 7,500 |
| Measurement Units: | dpm/100cm ² |
| Maximum Value: | 18,620 |
| Size of Area Exceeding DCGL (m ²): | 0.02 |
| Size of Survey Unit (m ²): | 49 |
| Survey Unit Area >DCGL (%): | 0.04 |
| EMC Value: | 36,750 |

Action Taken: Corrected measurement values for scan locations per guidance in memo FS-018-03; used similar method for measurements obtained with a 43-68 gas flow proportional detector. Replaced original scan results in SDMS with the corrected results. Applied EMC data processing to corrected results for scan locations 015 & 045 that remain elevated.

Basis for Action Taken: Technical basis memorandum FS-018-03 provides guidance for correcting SDMS determined scan results for locations that exceed the investigation level by subtracting instrument background from the field results.

FINAL SURVEY RESULTS SUMMARY

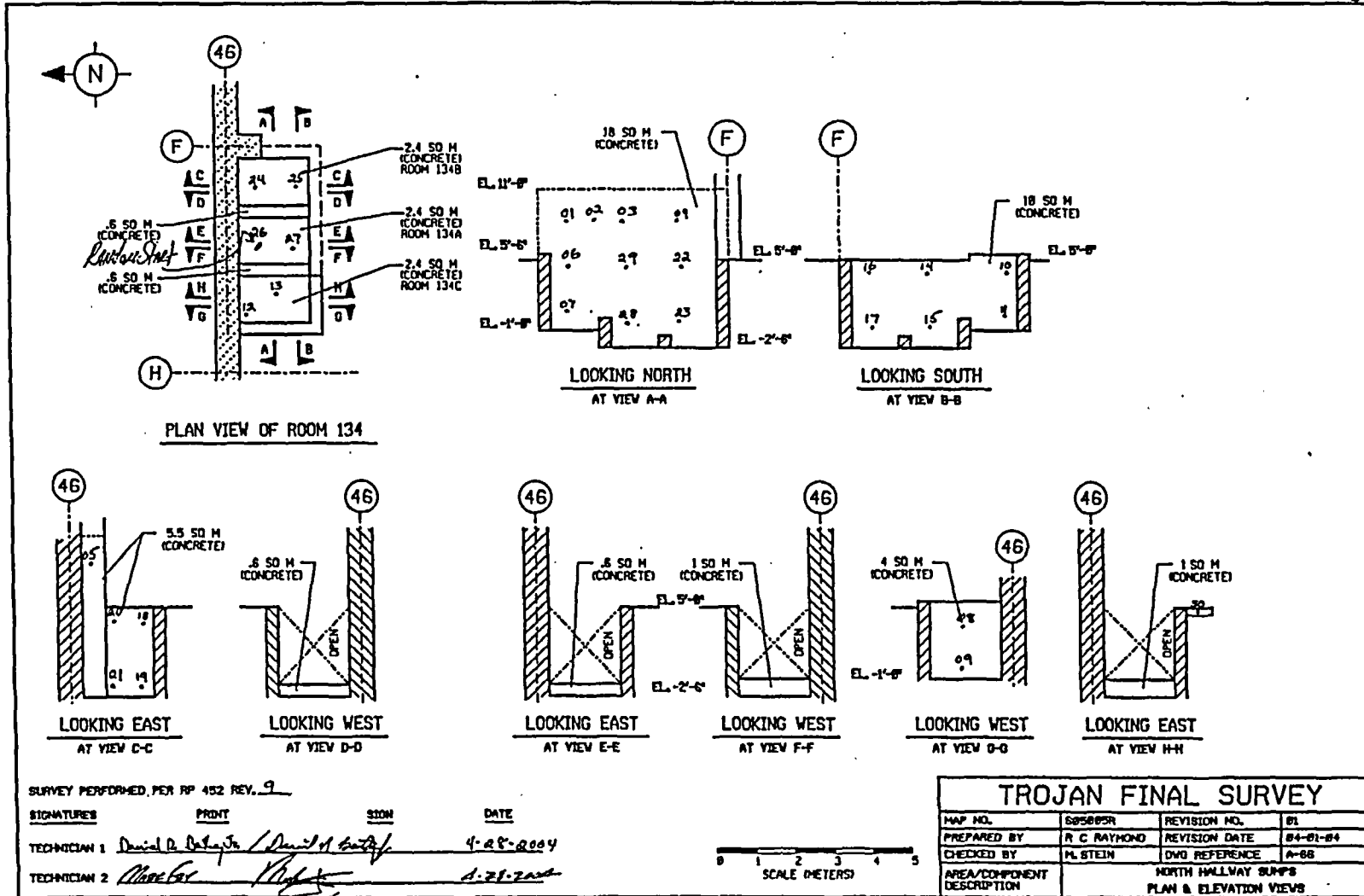
Survey Unit ID Code: S05005R

Survey Unit Name: AB 5' Elevation - Sump Floor, Walls, and Curb

Classification: Class 1

Size (m²): 49

Static Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05005S
 Survey Unit Name: AB 5' Elevation -
 Northeast Stairwell (to 93' Elevation)

Classification: Class 2
 Size (m²): 591

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|-----------------------|------------|-------------------------|------------|-----|-----|
| 1 | 30 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 6.521e+002
 Maximum Value : 1.341e+003
 Range : 6.889e+002
 Median : 1.046e+003
 Std. Deviation : 2.288e+002
 Mean : 9.999e+002
 95% UCL : 1.071e+003

Measurement Values

| Location | Value | Location | Value |
|----------|------------|----------|------------|
| 000001 | 6.632e+002 | 000018 | 1.285e+003 |
| 000002 | 1.069e+003 | 000019 | 6.521e+002 |
| 000003 | 7.080e+002 | 000020 | 1.274e+003 |
| 000004 | 1.252e+003 | 000021 | 6.819e+002 |
| 000005 | 1.073e+003 | 000022 | 1.230e+003 |
| 000006 | 9.390e+002 | 000023 | 8.644e+002 |
| 000007 | 1.136e+003 | 000024 | 1.181e+003 |
| 000008 | 7.042e+002 | 000025 | 1.025e+003 |
| 000009 | 1.222e+003 | 000026 | 1.326e+003 |
| 000010 | 1.204e+003 | 000027 | 1.341e+003 |
| 000011 | 1.066e+003 | 000028 | 7.787e+002 |
| 000012 | 8.197e+002 | 000029 | 1.177e+003 |
| 000013 | 1.215e+003 | 000030 | 7.378e+002 |
| 000014 | 8.235e+002 | | |
| 000015 | 7.937e+002 | | |
| 000016 | 9.203e+002 | | |
| 000017 | 8.346e+002 | | |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05005S
Survey Unit Name: AB 5' Elevation -
 Northeast Stairwell (to 93' Elevation)

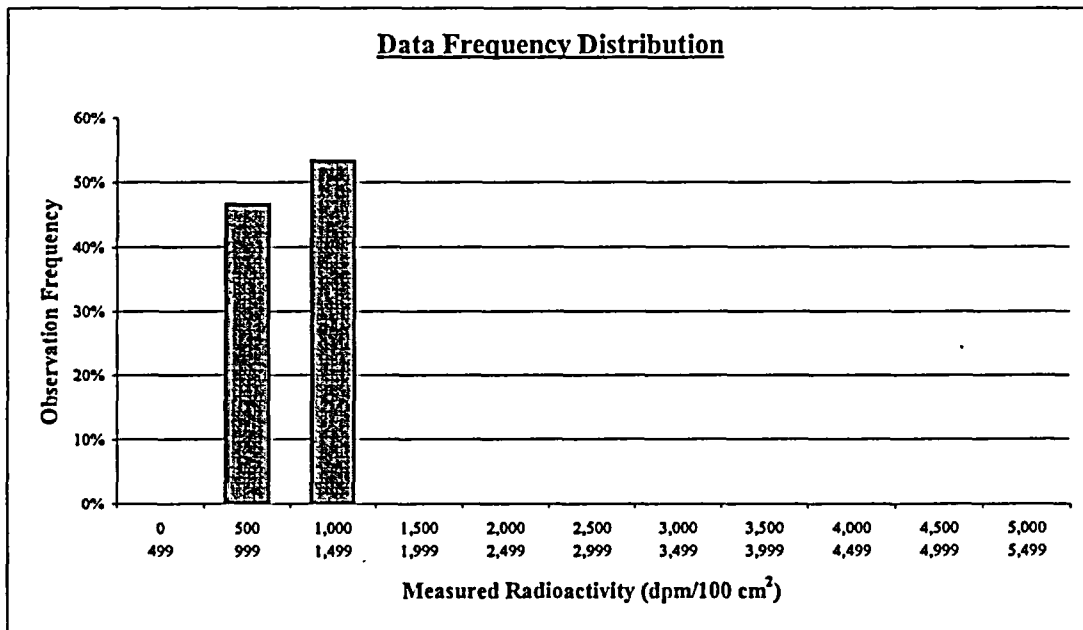
Classification: Class 2
Size (m²): 591

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | |
|-------------------------|------------------|---------------------|-------------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? |
| Range | 689 | 1,144 | Pass |
| Median | 0.199 | 0.500 | Pass |
| Mean | 1,000 | 6,000 | Pass |
| Std Dev | 229 | 1,500 | Pass |

| Statistical Quantities | |
|------------------------|-------|
| Range: | 689 |
| Median: | 1,046 |
| Mean: | 1,000 |
| Std Dev: | 229 |
| Minimum: | 652 |
| Maximum: | 1,341 |
| DCGL: | 7,500 |

All data less than DCGL; Sign statistical test not required.



| Plot Parameters | |
|---------------------|-------|
| # of measurements: | 30 |
| # of intervals: | 11 |
| Interval increment: | 500 |
| Minimum: | 0 |
| Maximum: | 5,499 |

Comment:
 None.

| Interval | High End | Low End | Number of Observations | Observation Frequency |
|----------|----------|---------|------------------------|-----------------------|
| 1 | 499 | 0 | 0 | 0% |
| 2 | 999 | 500 | 14 | 47% |
| 3 | 1,499 | 1,000 | 16 | 53% |
| 4 | 1,999 | 1,500 | 0 | 0% |
| 5 | 2,499 | 2,000 | 0 | 0% |
| 6 | 2,999 | 2,500 | 0 | 0% |
| 7 | 3,499 | 3,000 | 0 | 0% |
| 8 | 3,999 | 3,500 | 0 | 0% |
| 9 | 4,499 | 4,000 | 0 | 0% |
| 10 | 4,999 | 4,500 | 0 | 0% |
| 11 | 5,499 | 5,000 | 0 | 0% |
| Total: | | | 30 | 100% |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05005S

Classification: Class 2

Survey Unit Name: AB 5' Elevation –
Northeast Stairwell (to 93' Elevation)

Size (m²): 591

Judgmental and Miscellaneous Measurement Data

Measurement Type: Surface Scanning Beta

Scan Coverage (%): 20

Measurement Units: dpm/100cm²

Investigation Level: 7,500

Minimum Value: 853

Maximum Value: 2,093

Measurement Type: Removable Beta

Number of Measurements: 30

Measurement Units: dpm/100cm²

Investigation Level: 750

Minimum Value: 48

Maximum Value: 86

Discussion of Anomalous Measurement Data

Investigation Summary

No investigation required for this survey unit. No anomalous measurement data.

FINAL SURVEY RESULTS SUMMARY

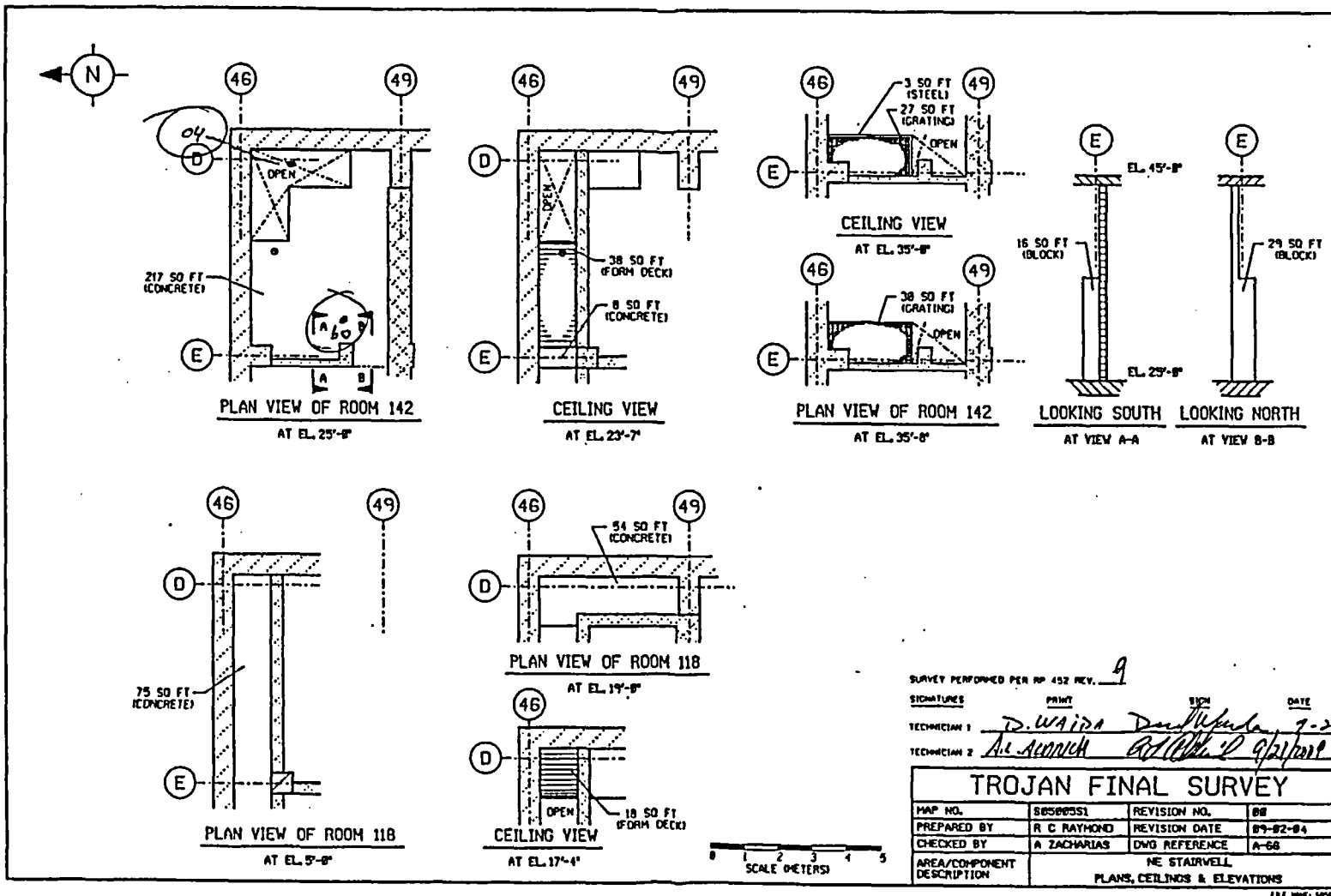
Survey Unit ID Code: S05005S

Survey Unit Name: AB 5' Elevation - Northeast Stairwell (to 93' Elevation)

Classification: Class 2

Size (m²): 591

Static Measurement Locations Map



SURVEY PERFORMED PER HP 452 REV. 9

SIGNATURES: PRINT NAME DATE

TECHNICIAN 1: D. WAIDA D. Waida 7-21-07

TECHNICIAN 2: A. ZACHARIAS A. Zacharias 9/2/2007

| TROJAN FINAL SURVEY | | | |
|----------------------------|--|---------------|----------|
| MAP NO. | S05005S1 | REVISION NO. | 08 |
| PREPARED BY | R C RAYMOND | REVISION DATE | 07-02-04 |
| CHECKED BY | A ZACHARIAS | DWG REFERENCE | A-66 |
| AREA/COMPONENT DESCRIPTION | NE STAIRWELL PLANS, CEILINGS & ELEVATIONS | | |

FILE NO. 5005S

FINAL SURVEY RESULTS SUMMARY

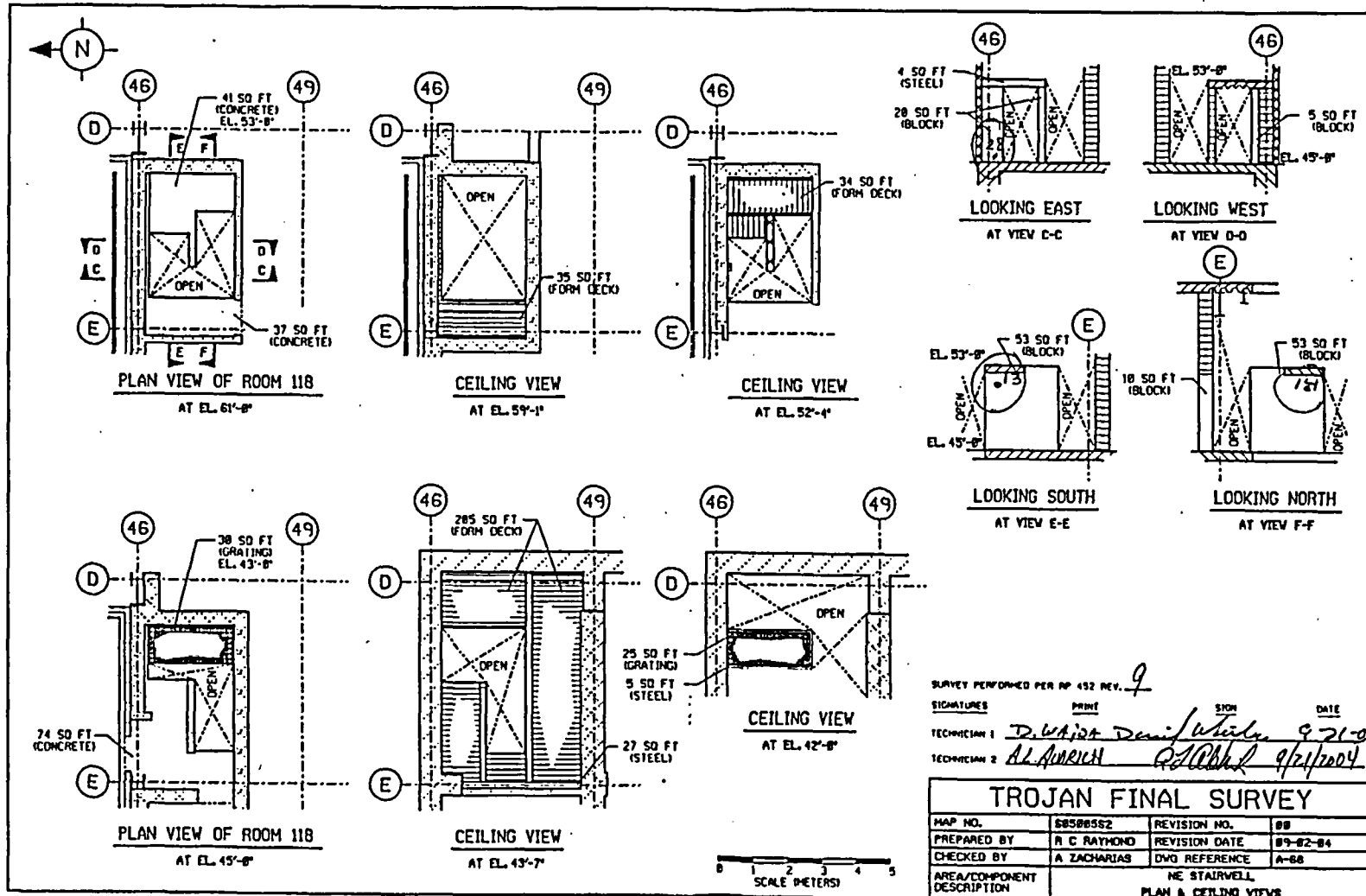
Survey Unit ID Code: S05005S

Survey Unit Name: AB 5' Elevation - Northeast Stairwell (to 93' Elevation)

Classification: Class 2

Size (m²): 591

Static Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

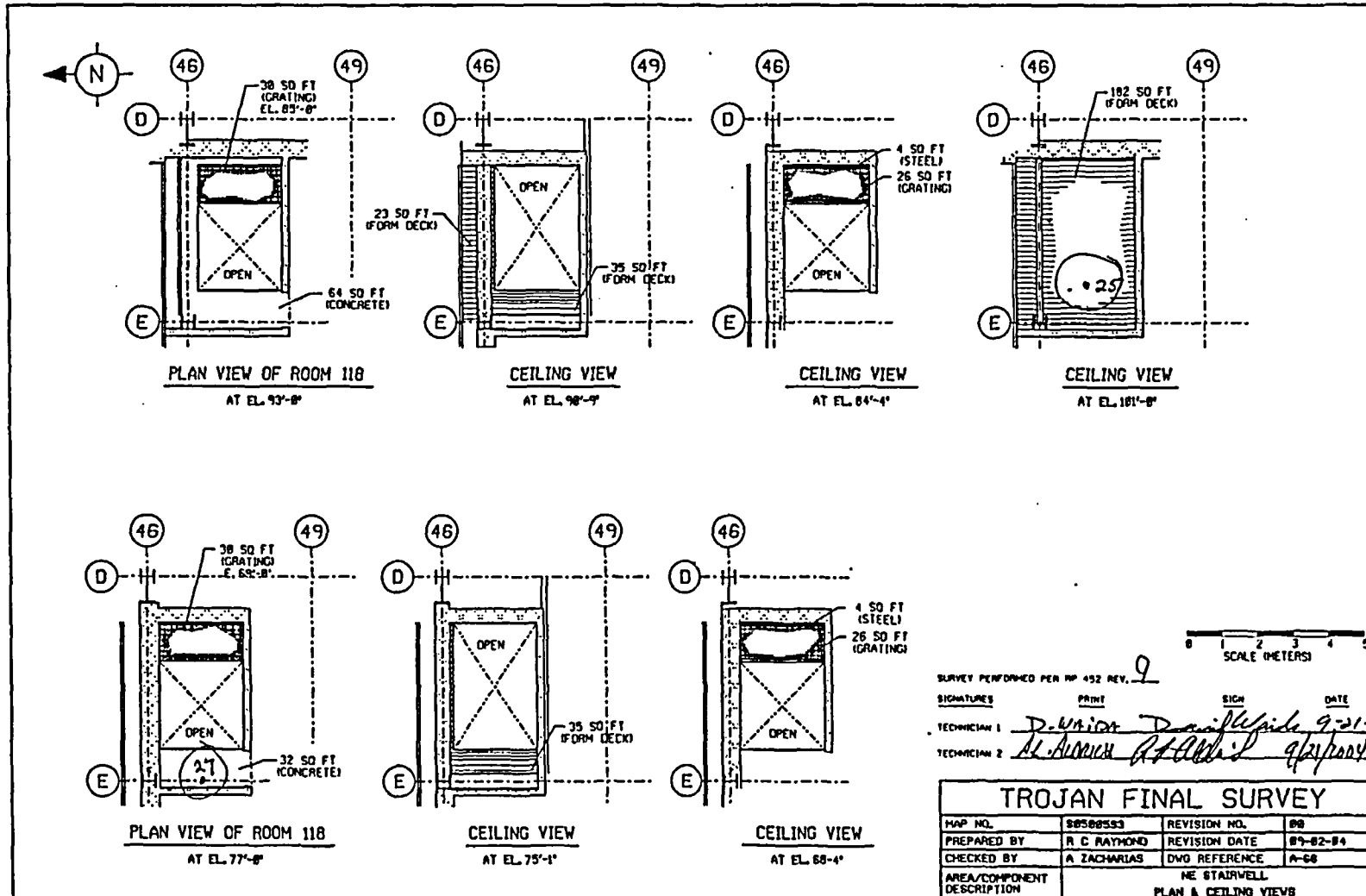
Survey Unit ID Code: S05005S

Survey Unit Name: AB 5' Elevation - Northeast Stairwell (to 93' Elevation)

Classification: Class 2

Size (m²): 591

Static Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

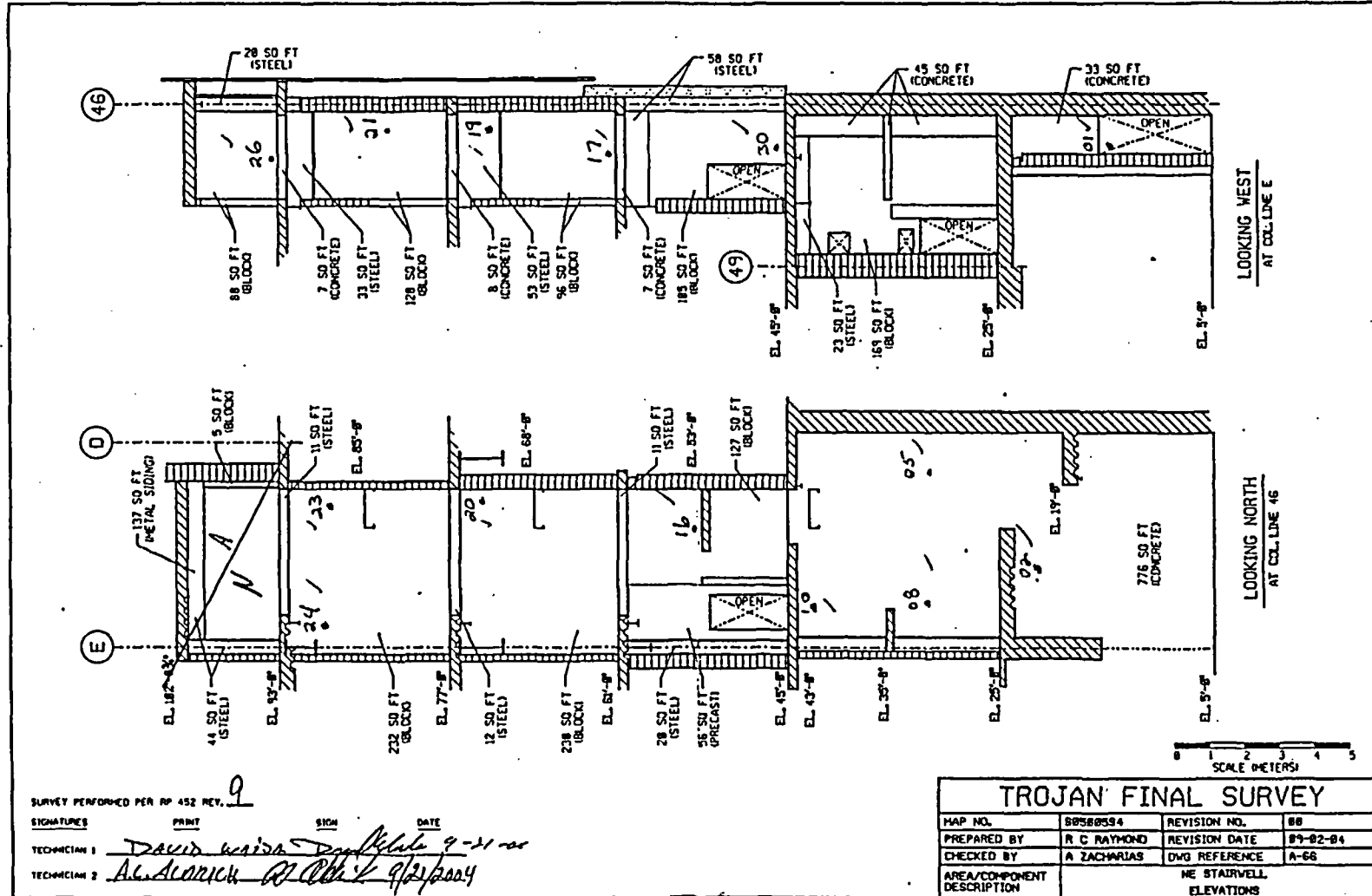
Survey Unit ID Code: S05005S

Survey Unit Name: AB 5' Elevation - Northeast Stairwell (to 93' Elevation)

Classification: Class 2

Size (m²): 591

Static Measurement Locations Map



SURVEY PERFORMED PER RP 452 REV. 9
 SIGNATURES: PRINT SIGN DATE
 TECHNICIAN 1: David Weida 9-21-04
 TECHNICIAN 2: A. Alarich 9/21/04

| TROJAN FINAL SURVEY | | | |
|----------------------------|-------------------------|---------------|----------|
| MAP NO. | 80588934 | REVISION NO. | 88 |
| PREPARED BY | R C RAYMOND | REVISION DATE | 87-82-84 |
| CHECKED BY | A ZACHARIAS | DMG REFERENCE | A-66 |
| AREA/COMPONENT DESCRIPTION | NE STAIRWELL ELEVATIONS | | |

FINAL SURVEY RESULTS SUMMARY

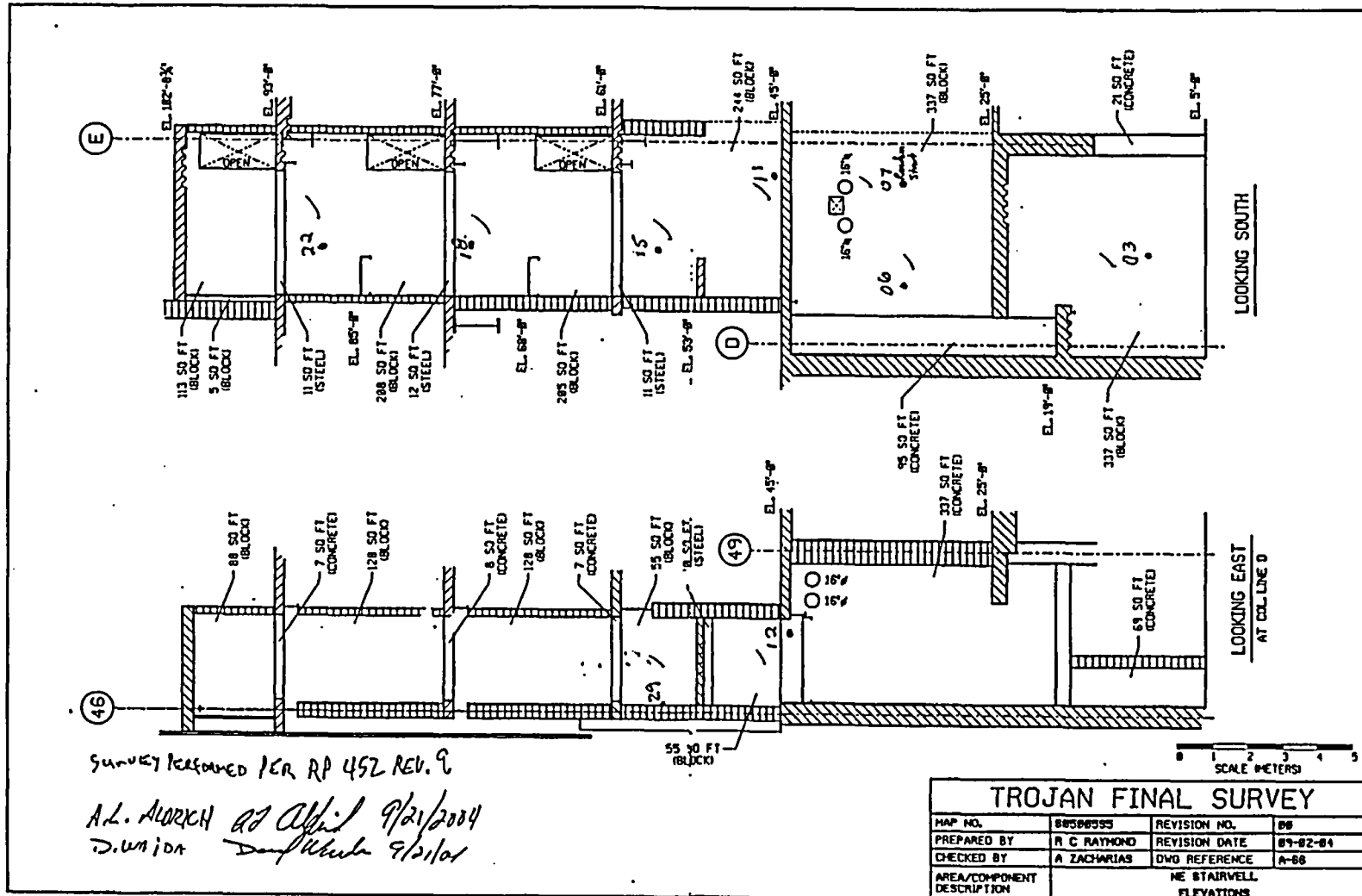
Survey Unit ID Code: S05005S

Survey Unit Name: AB 5' Elevation - Northeast Stairwell (to 93' Elevation)

Classification: Class 2

Size (m²): 591

Static Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

| | |
|--|----------------------------|
| Survey Unit ID Code: S05011B | Classification: Class 2 |
| Survey Unit Name: AB 5' Elevation - | Size (m ²): 87 |
| "B" Safety Injection Pump Room Upper Walls and Ceiling | |

Data Quality Values

| | | | |
|----------------|--------------|--------------|--------------|
| Type 1 Error | : 5.000e-002 | Type 2 Error | : 5.000e-002 |
| Relative Shift | : 3.000e+000 | | |

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|--------------------------|---------------|-------------------------|------------|-----|-----|
| 1 | 33 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

| | |
|-------------------|--------------|
| Measurement Name: | |
| Minimum Value | : 4.709e+002 |
| Maximum Value | : 9.683e+002 |
| Range | : 4.974e+002 |
| Median | : 7.823e+002 |
| Std. Deviation | : 1.072e+002 |
| Mean | : 7.653e+002 |
| 95% UCL | : 7.969e+002 |

Measurement Values

| Location | Value | Location | Value |
|----------|------------|----------|------------|
| 000001 | 4.709e+002 | 000018 | 8.240e+002 |
| 000002 | 5.886e+002 | 000019 | 8.240e+002 |
| 000003 | 6.797e+002 | 000020 | 9.569e+002 |
| 000004 | 6.911e+002 | 000021 | 7.519e+002 |
| 000005 | 7.215e+002 | 000022 | 5.240e+002 |
| 000006 | 7.291e+002 | 000023 | 6.114e+002 |
| 000007 | 8.316e+002 | 000024 | 7.671e+002 |
| 000008 | 8.734e+002 | 000025 | 8.620e+002 |
| 000009 | 8.126e+002 | 000026 | 8.696e+002 |
| 000010 | 7.557e+002 | 000027 | 7.899e+002 |
| 000011 | 7.025e+002 | 000028 | 8.088e+002 |
| 000012 | 7.367e+002 | 000029 | 7.937e+002 |
| 000013 | 8.012e+002 | 000030 | 7.747e+002 |
| 000014 | 8.544e+002 | 000031 | 7.025e+002 |
| 000015 | 7.823e+002 | 000032 | 7.519e+002 |
| 000016 | 8.240e+002 | 000033 | 9.683e+002 |
| 000017 | 8.202e+002 | | |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05011B

Classification: Class 2

Survey Unit Name: AB 5' Elevation -

Size (m²): 87

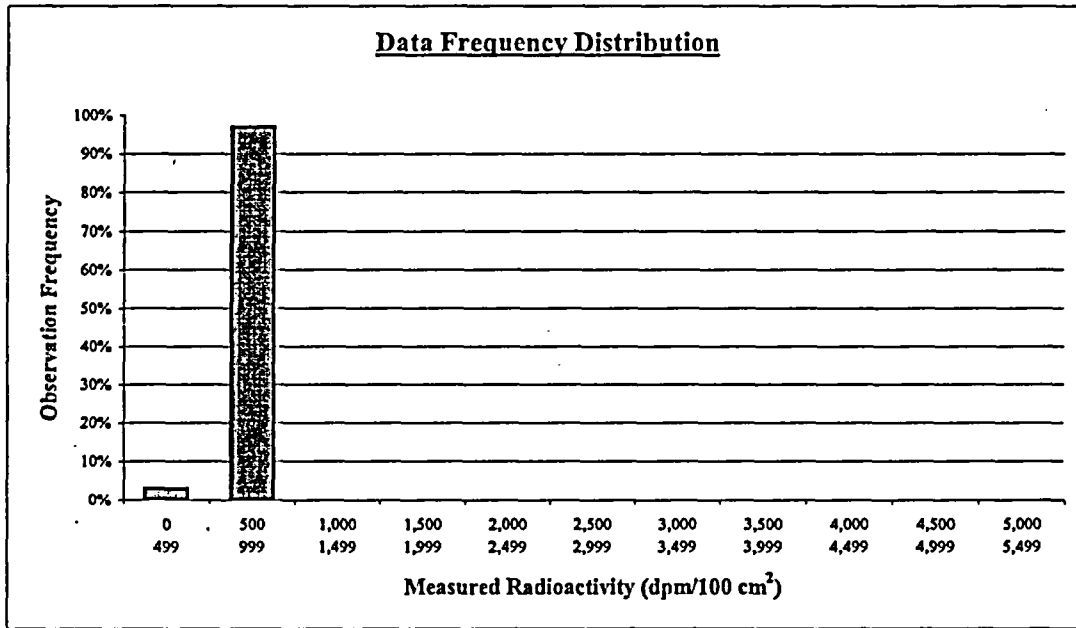
"B" Safety Injection Pump Room Upper Walls and Ceiling

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | |
|-------------------------|------------------|---------------------|-------------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? |
| Range | 497 | 536 | Pass |
| Median | 0.158 | 0.500 | Pass |
| Mean | 765 | 6,000 | Pass |
| Std Dev | 107 | 1,500 | Pass |

All data less than DCGL; Sign statistical test not required.

| Statistical Quantities | |
|------------------------|-------|
| Range: | 497 |
| Median: | 782 |
| Mean: | 765 |
| Std Dev: | 107 |
| Minimum: | 471 |
| Maximum: | 968 |
| DCGL: | 7,500 |



| Plot Parameters | |
|---------------------|-------|
| # of measurements: | 33 |
| # of intervals: | 11 |
| Interval increment: | 500 |
| Minimum: | 0 |
| Maximum: | 5,499 |

Comment:

None.

| Interval | High End | Low End | Number of Observations | Observation Frequency |
|----------|----------|---------|------------------------|-----------------------|
| 1 | 499 | 0 | 1 | 3% |
| 2 | 999 | 500 | 32 | 97% |
| 3 | 1,499 | 1,000 | 0 | 0% |
| 4 | 1,999 | 1,500 | 0 | 0% |
| 5 | 2,499 | 2,000 | 0 | 0% |
| 6 | 2,999 | 2,500 | 0 | 0% |
| 7 | 3,499 | 3,000 | 0 | 0% |
| 8 | 3,999 | 3,500 | 0 | 0% |
| 9 | 4,499 | 4,000 | 0 | 0% |
| 10 | 4,999 | 4,500 | 0 | 0% |
| 11 | 5,499 | 5,000 | 0 | 0% |
| Total: | | | 33 | 100% |

FINAL SURVEY RESULTS SUMMARY

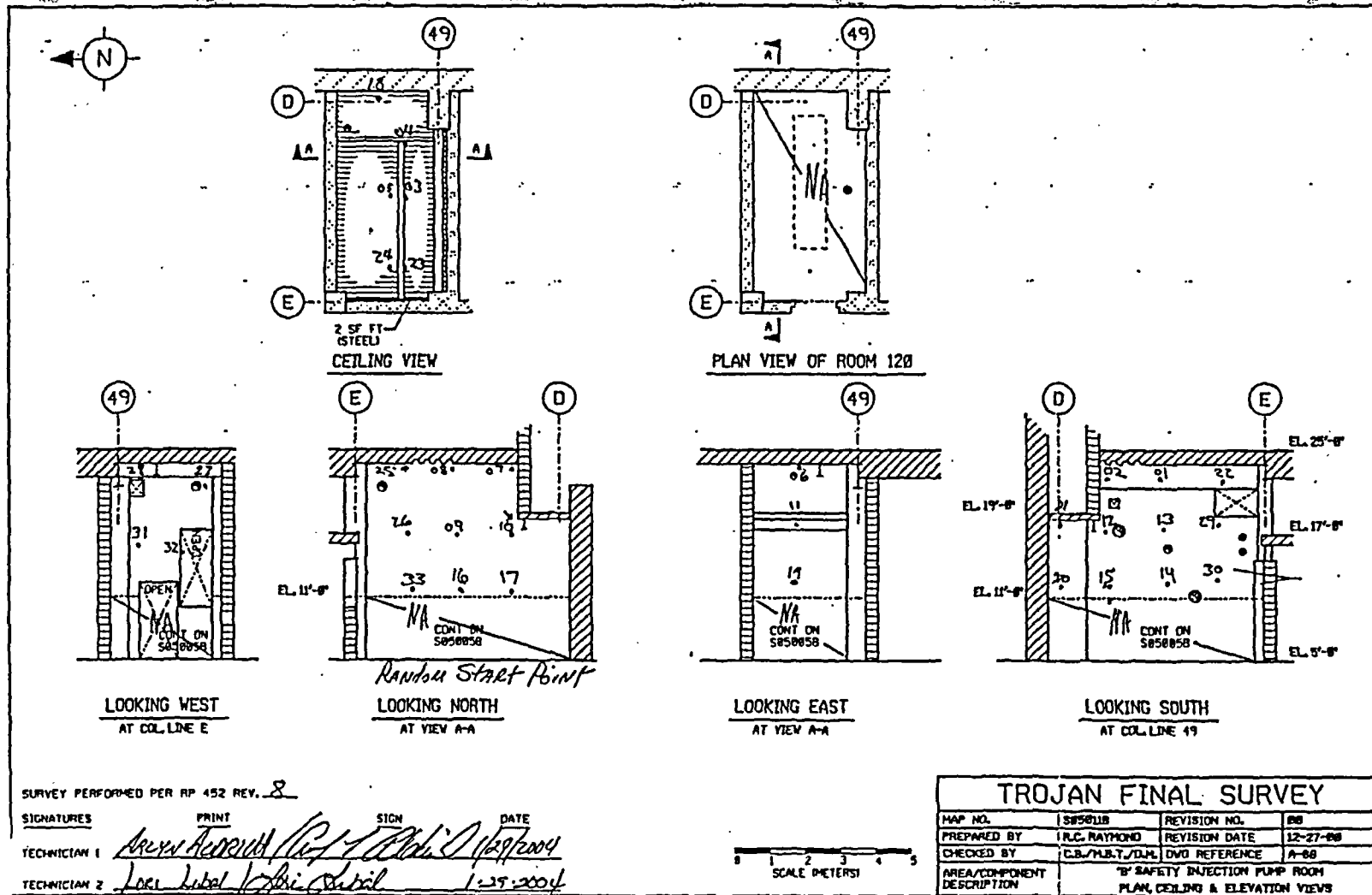
Survey Unit ID Code: S05011B

Survey Unit Name: AB 5' Elevation - "B" Safety Injection Pump Room Upper Walls and Ceiling

Classification: Class 2

Size (m²): 87

Static Measurement Locations Map



SURVEY PERFORMED PER RP 452 REV. 8

SIGNATURES PRINT SIGN DATE
 TECHNICIAN 1 *[Signature]* *[Print Name]* *[Signature]* 1/29/2004
 TECHNICIAN 2 *[Signature]* *[Print Name]* *[Signature]* 1-29-2004

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05011C

Classification: Class 2

Survey Unit Name: AB 5' Elevation -

Size (m²): 91

"A" Safety Injection Pump Room Upper Walls and Ceiling

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|-----------------------|------------|-------------------------|------------|-----|-----|
| 1 | 30 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 6.152e+002
 Maximum Value : 9.380e+002
 Range : 3.228e+002
 Median : 8.183e+002
 Std. Deviation : 7.322e+001
 Mean : 8.057e+002
 95% UCL : 8.284e+002

Measurement Values

| Location | Value | Location | Value |
|----------|------------|----------|------------|
| 000001 | 6.835e+002 | 000018 | 8.392e+002 |
| 000002 | 7.709e+002 | 000019 | 8.810e+002 |
| 000003 | 6.152e+002 | 000020 | 8.696e+002 |
| 000004 | 7.747e+002 | 000021 | 7.557e+002 |
| 000005 | 8.050e+002 | 000022 | 8.050e+002 |
| 000006 | 8.316e+002 | 000023 | 7.443e+002 |
| 000007 | 8.430e+002 | 000024 | 9.380e+002 |
| 000008 | 8.430e+002 | 000025 | 8.848e+002 |
| 000009 | 7.291e+002 | 000026 | 7.747e+002 |
| 000010 | 7.709e+002 | 000027 | 8.240e+002 |
| 000011 | 8.164e+002 | 000028 | 8.506e+002 |
| 000012 | 8.050e+002 | 000029 | 7.177e+002 |
| 000013 | 8.354e+002 | 000030 | 6.873e+002 |
| 000014 | 8.240e+002 | | |
| 000015 | 9.190e+002 | | |
| 000016 | 9.114e+002 | | |
| 000017 | 8.202e+002 | | |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05011C
 Survey Unit Name: AB 5' Elevation –
 "A" Safety Injection Pump Room Upper Walls and Ceiling

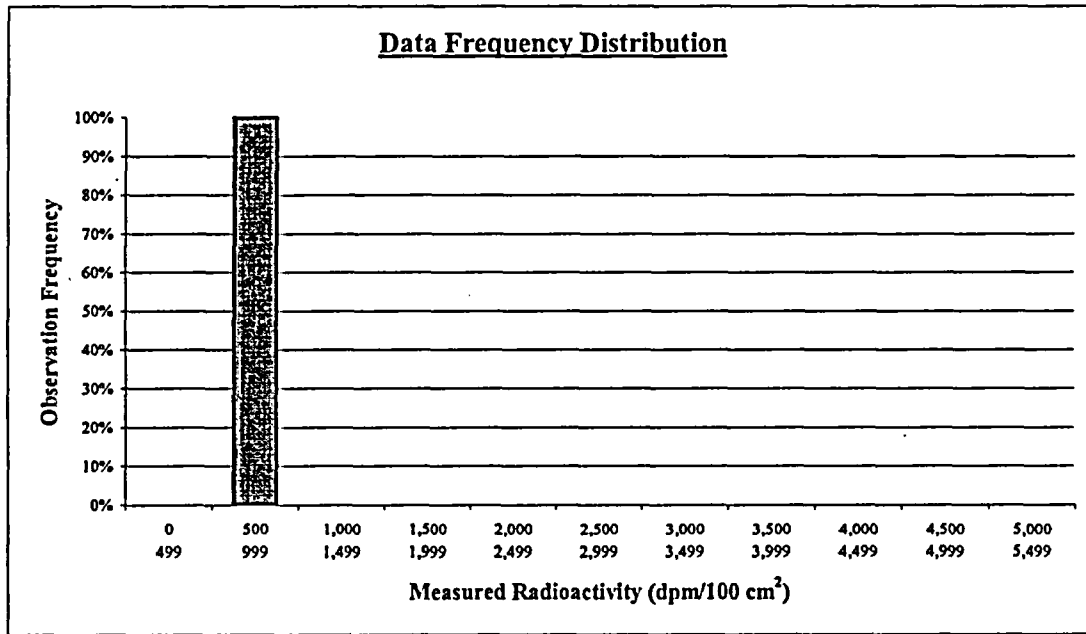
Classification: Class 2
 Size (m²): 91

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | |
|-------------------------|------------------|---------------------|-------------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? |
| Range | 323 | 366 | Pass |
| Median | 0.167 | 0.500 | Pass |
| Mean | 806 | 6,000 | Pass |
| Std Dev | 73 | 1,500 | Pass |

| Statistical Quantities | |
|------------------------|-------|
| Range: | 323 |
| Median: | 818 |
| Mean: | 806 |
| Std Dev: | 73 |
| Minimum: | 615 |
| Maximum: | 938 |
| DCGL: | 7,500 |

All data less than DCGL; Sign statistical test not required.



| Plot Parameters | |
|---------------------|-------|
| # of measurements: | 30 |
| # of intervals: | 11 |
| Interval increment: | 500 |
| Minimum: | 0 |
| Maximum: | 5,499 |

Comment:
 None.

| Interval | High End | Low End | Number of Observations | Observation Frequency |
|----------|----------|---------|------------------------|-----------------------|
| 1 | 499 | 0 | 0 | 0% |
| 2 | 999 | 500 | 30 | 100% |
| 3 | 1,499 | 1,000 | 0 | 0% |
| 4 | 1,999 | 1,500 | 0 | 0% |
| 5 | 2,499 | 2,000 | 0 | 0% |
| 6 | 2,999 | 2,500 | 0 | 0% |
| 7 | 3,499 | 3,000 | 0 | 0% |
| 8 | 3,999 | 3,500 | 0 | 0% |
| 9 | 4,499 | 4,000 | 0 | 0% |
| 10 | 4,999 | 4,500 | 0 | 0% |
| 11 | 5,499 | 5,000 | 0 | 0% |
| Total: | | | 30 | 100% |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05011C

Classification: Class 2

Survey Unit Name: AB 5' Elevation –

Size (m²): 91

“A” Safety Injection Pump Room Upper Walls and Ceiling

Judgmental and Miscellaneous Measurement Data

Measurement Type: Surface Scanning Beta

Scan Coverage (%): 35

Measurement Units: dpm/100cm²

Investigation Level: 7,500

Minimum Value: 953

Maximum Value: 6,554

Measurement Type: Removable Beta

Number of Measurements: 30

Measurement Units: dpm/100cm²

Investigation Level: 750

Minimum Value: 3

Maximum Value: 19

Discussion of Anomalous Measurement Data

Investigation Summary

No investigation required for this survey unit. No anomalous measurement data

FINAL SURVEY RESULTS SUMMARY

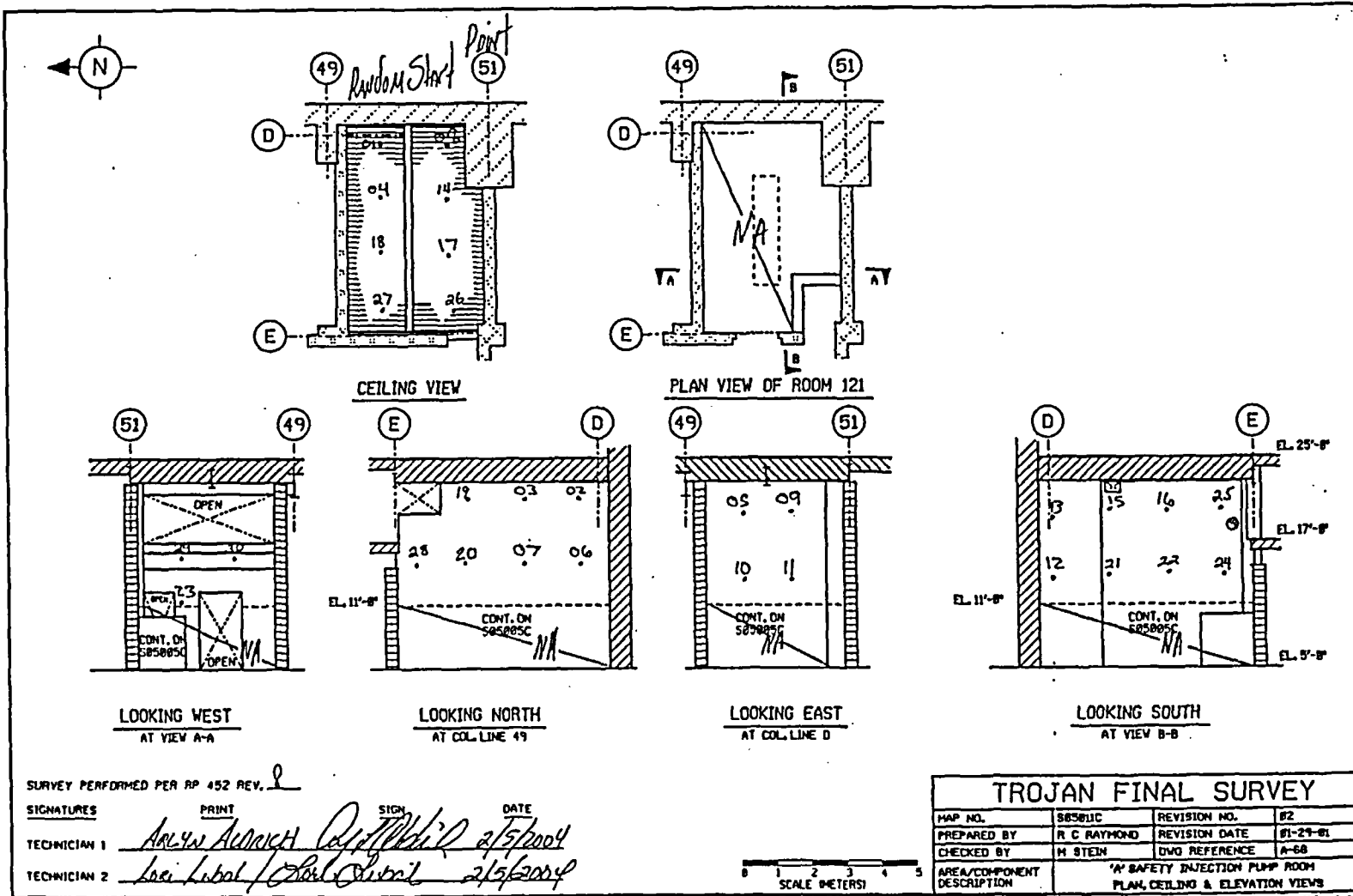
Survey Unit ID Code: S05011C

Survey Unit Name: AB 5' Elevation - "A" Safety Injection Pump Room Upper Walls and Ceiling

Classification: Class 2

Size (m²): 91

Static Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05011D Classification: Class 2
 Survey Unit Name: AB 5' Elevation - Size (m²): 79
 "B" Containment Spray Pump Room Upper Walls and Ceiling

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|-----------------------|------------|-------------------------|------------|-----|-----|
| 1 | 34 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 5.153e+002
 Maximum Value : 1.268e+003
 Range : 7.527e+002
 Median : 7.635e+002
 Std: Deviation : 1.301e+002
 Mean : 7.490e+002
 95% UCL : 7.867e+002

Measurement Values

| Location | Value | Location | Value |
|----------|------------|----------|------------|
| 000001 | 8.125e+002 | 000018 | 1.268e+003 |
| 000002 | 8.125e+002 | 000019 | 8.200e+002 |
| 000003 | 7.824e+002 | 000020 | 6.620e+002 |
| 000004 | 5.266e+002 | 000021 | 8.463e+002 |
| 000005 | 5.153e+002 | 000022 | 5.341e+002 |
| 000006 | 5.680e+002 | 000023 | 8.012e+002 |
| 000007 | 6.846e+002 | 000024 | 7.711e+002 |
| 000008 | 6.808e+002 | 000025 | 7.937e+002 |
| 000009 | 6.206e+002 | 000026 | 8.237e+002 |
| 000010 | 7.335e+002 | 000027 | 8.087e+002 |
| 000011 | 7.748e+002 | 000028 | 7.560e+002 |
| 000012 | 7.109e+002 | 000029 | 6.959e+002 |
| 000013 | 6.996e+002 | 000030 | 8.425e+002 |
| 000014 | 7.448e+002 | 000031 | 8.614e+002 |
| 000015 | 7.335e+002 | 000032 | 7.861e+002 |
| 000016 | 7.071e+002 | 000033 | 7.222e+002 |
| 000017 | 7.861e+002 | 000034 | 7.786e+002 |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05011D

Classification: Class 2

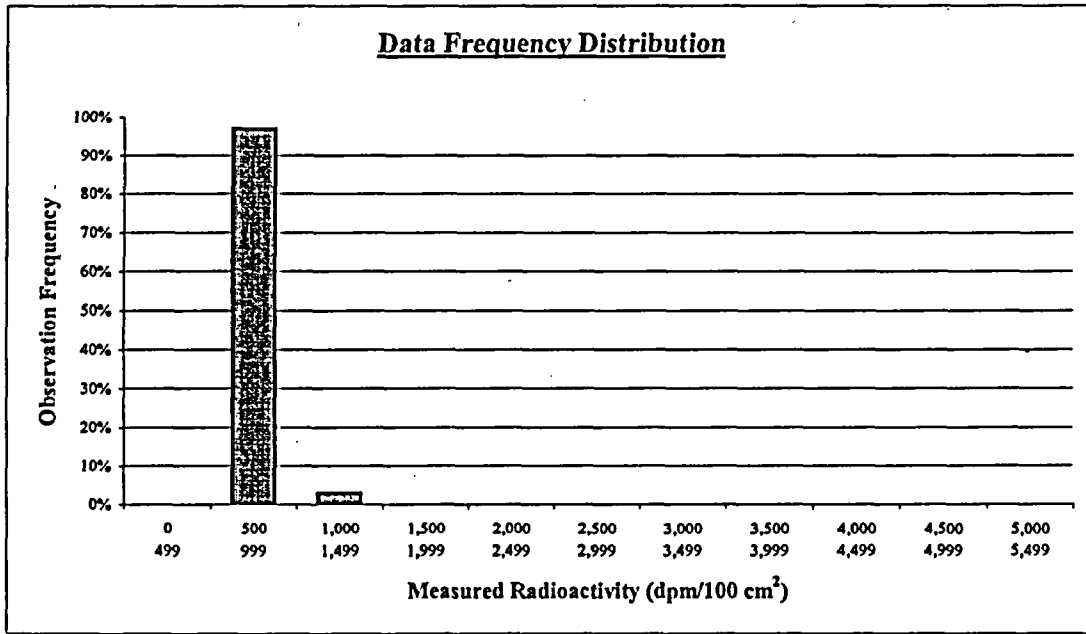
Survey Unit Name: AB 5' Elevation -

Size (m²): 79

"B" Containment Spray Pump Room Upper Walls and Ceiling

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | | Statistical Quantities | |
|--|------------------|---------------------|-------------------|------------------------|-------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? | Range: | 753 |
| Range | 753 | 651 | See comment below | Median: | 764 |
| Median | 0.111 | 0.500 | Pass | Mean: | 749 |
| Mean | 749 | 6,000 | Pass | Std Dev: | 130 |
| Std Dev | 130 | 1,500 | Pass | Minimum: | 515 |
| All data less than DCGL; Sign statistical test not required. | | | | Maximum: | 1,268 |
| | | | | DCGL: | 7,500 |



| Plot Parameters | Interval | High End | Low End | Number of Observations | Observation Frequency |
|-------------------------|---------------|----------|---------|------------------------|-----------------------|
| # of measurements: 34 | 1 | 499 | 0 | 0 | 0% |
| # of intervals: 11 | 2 | 999 | 500 | 33 | 97% |
| Interval increment: 500 | 3 | 1,499 | 1,000 | 1 | 3% |
| Minimum: 0 | 4 | 1,999 | 1,500 | 0 | 0% |
| Maximum: 5,499 | 5 | 2,499 | 2,000 | 0 | 0% |
| | 6 | 2,999 | 2,500 | 0 | 0% |
| | 7 | 3,499 | 3,000 | 0 | 0% |
| | 8 | 3,999 | 3,500 | 0 | 0% |
| | 9 | 4,499 | 4,000 | 0 | 0% |
| | 10 | 4,999 | 4,500 | 0 | 0% |
| | 11 | 5,499 | 5,000 | 0 | 0% |
| | Total: | | | 34 | 100% |

Comment:
Range failure is a test artifact due to a single value exceeding 1,000 dpm while other 33 values are less than 1,000 dpm. All values are valid and accepted as final survey data.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05011D

Classification: Class 2

Survey Unit Name: AB 5' Elevation –

Size (m²): 79

“B” Containment Spray Pump Room Upper Walls and Ceiling

Judgmental and Miscellaneous Measurement Data

Measurement Type: Surface Scanning Beta

Scan Coverage (%): 35

Measurement Units: dpm/100cm²

Investigation Level: 7,500

Minimum Value: 870

Maximum Value: 6,125

Measurement Type: Removable Beta

Number of Measurements: 34

Measurement Units: dpm/100cm²

Investigation Level: 750

Minimum Value: 3

Maximum Value: 23

Discussion of Anomalous Measurement Data

Investigation Summary

No investigation required for this survey unit. No anomalous measurement data

FINAL SURVEY RESULTS SUMMARY

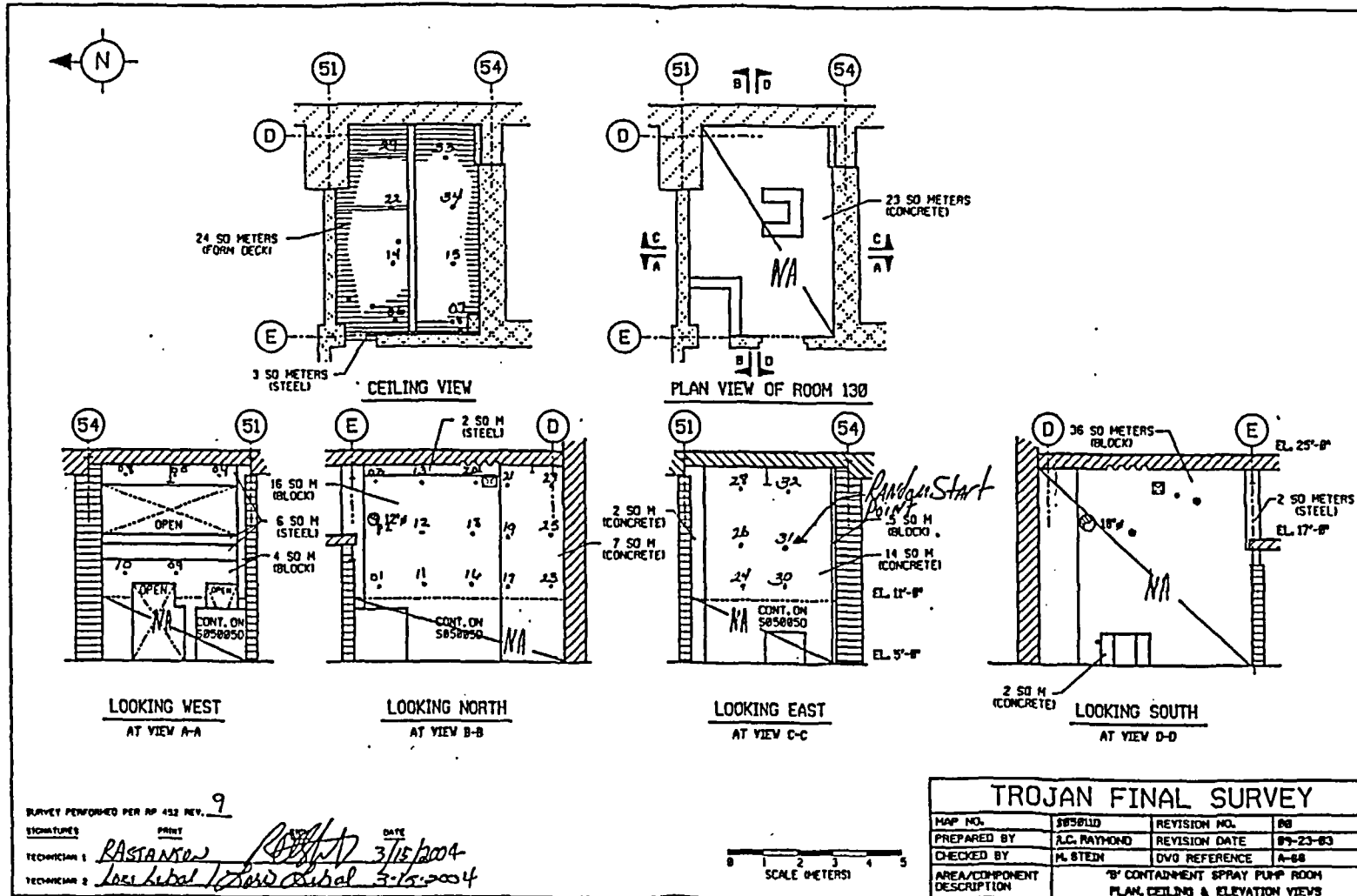
Survey Unit ID Code: S05011D

Classification: Class 2

Survey Unit Name: AB 5' Elevation - "B" Containment Spray Pump Room Upper Walls and Ceiling

Size (m²): 79

Static Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05011L
 Survey Unit Name: AB 5' Elevation -
 North Hallway Upper Walls and Ceiling

Classification: Class 2
 Size (m²): 185

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|-----------------------|------------|-------------------------|------------|-----|-----|
| 1 | 30 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 6.507e+002
 Maximum Value : 9.215e+002
 Range : 2.708e+002
 Median : 7.974e+002
 Std. Deviation : 7.155e+001
 Mean : 7.921e+002
 95% UCL : 8.143e+002

Measurement Values

| Location | Value | Location | Value |
|----------|------------|----------|------------|
| 000001 | 7.711e+002 | 000018 | 7.523e+002 |
| 000002 | 6.959e+002 | 000019 | 8.839e+002 |
| 000003 | 7.147e+002 | 000020 | 8.425e+002 |
| 000004 | 8.087e+002 | 000021 | 8.313e+002 |
| 000005 | 8.990e+002 | 000022 | 6.507e+002 |
| 000006 | 7.899e+002 | 000023 | 7.861e+002 |
| 000007 | 6.921e+002 | 000024 | 7.899e+002 |
| 000008 | 7.748e+002 | 000025 | 7.560e+002 |
| 000009 | 8.200e+002 | 000026 | 8.087e+002 |
| 000010 | 7.372e+002 | 000027 | 8.237e+002 |
| 000011 | 8.125e+002 | 000028 | 6.695e+002 |
| 000012 | 8.802e+002 | 000029 | 8.049e+002 |
| 000013 | 9.215e+002 | 000030 | 8.087e+002 |
| 000014 | 6.921e+002 | | |
| 000015 | 8.463e+002 | | |
| 000016 | 7.786e+002 | | |
| 000017 | 9.215e+002 | | |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05011L

Classification: Class 2

Survey Unit Name: AB 5' Elevation -

Size (m²): 185

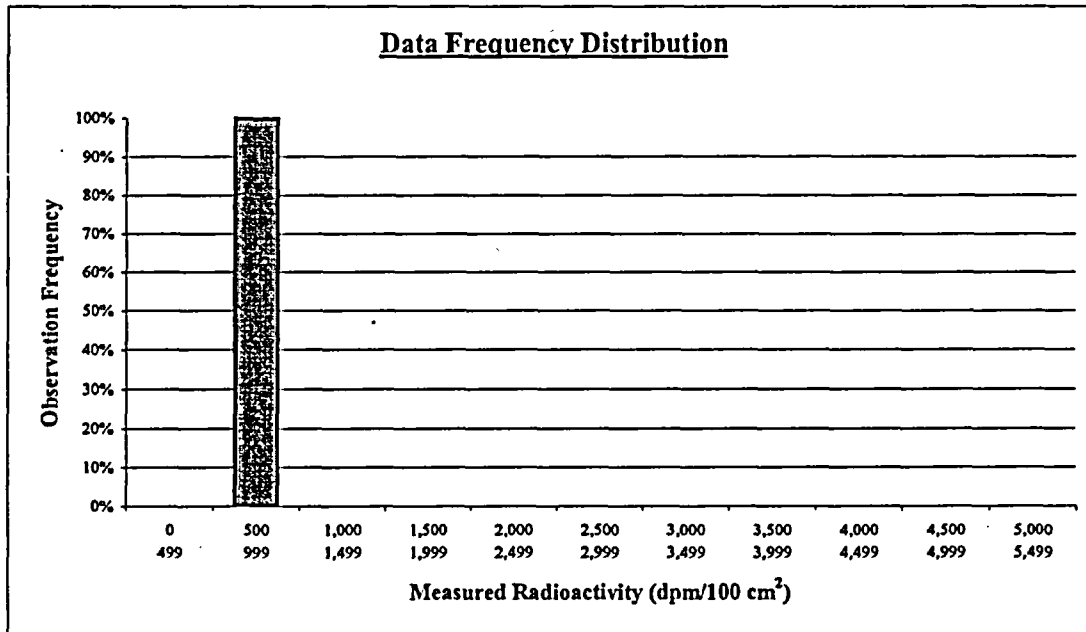
North Hallway Upper Walls and Ceiling

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | |
|-------------------------|------------------|---------------------|-------------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? |
| Range | 271 | 358 | Pass |
| Median | 0.073 | 0.500 | Pass |
| Mean | 792 | 6,000 | Pass |
| Std Dev | 72 | 1,500 | Pass |

| Statistical Quantities | |
|------------------------|-------|
| Range: | 271 |
| Median: | 798 |
| Mean: | 792 |
| Std Dev: | 72 |
| Minimum: | 651 |
| Maximum: | 922 |
| DCGL: | 7,500 |

All data less than DCGL; Sign statistical test not required.



| Plot Parameters | |
|---------------------|-------|
| # of measurements: | 30 |
| # of intervals: | 11 |
| Interval increment: | 500 |
| Minimum: | 0 |
| Maximum: | 5,499 |

| Interval | High End | Low End | Number of Observations | Observation Frequency |
|----------|----------|---------|------------------------|-----------------------|
| 1 | 499 | 0 | 0 | 0% |
| 2 | 999 | 500 | 30 | 100% |
| 3 | 1,499 | 1,000 | 0 | 0% |
| 4 | 1,999 | 1,500 | 0 | 0% |
| 5 | 2,499 | 2,000 | 0 | 0% |
| 6 | 2,999 | 2,500 | 0 | 0% |
| 7 | 3,499 | 3,000 | 0 | 0% |
| 8 | 3,999 | 3,500 | 0 | 0% |
| 9 | 4,499 | 4,000 | 0 | 0% |
| 10 | 4,999 | 4,500 | 0 | 0% |
| 11 | 5,499 | 5,000 | 0 | 0% |
| Total: | | | 30 | 100% |

Comment:

None.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05011L

Classification: Class 2

Survey Unit Name: AB 5' Elevation –

Size (m²): 185

North Hallway Upper Walls and Ceiling

Judgmental and Miscellaneous Measurement Data

Measurement Type: Surface Scanning Beta

Scan Coverage (%): 35

Measurement Units: dpm/100cm²

Investigation Level: 7,500

Minimum Value: 828

Maximum Value: 1,422

Measurement Type: Removable Beta

Number of Measurements: 30

Measurement Units: dpm/100cm²

Investigation Level: 750

Minimum Value: 3

Maximum Value: 23

Discussion of Anomalous Measurement Data

Investigation Summary

No investigation required for this survey unit. No anomalous measurement data.

FINAL SURVEY RESULTS SUMMARY

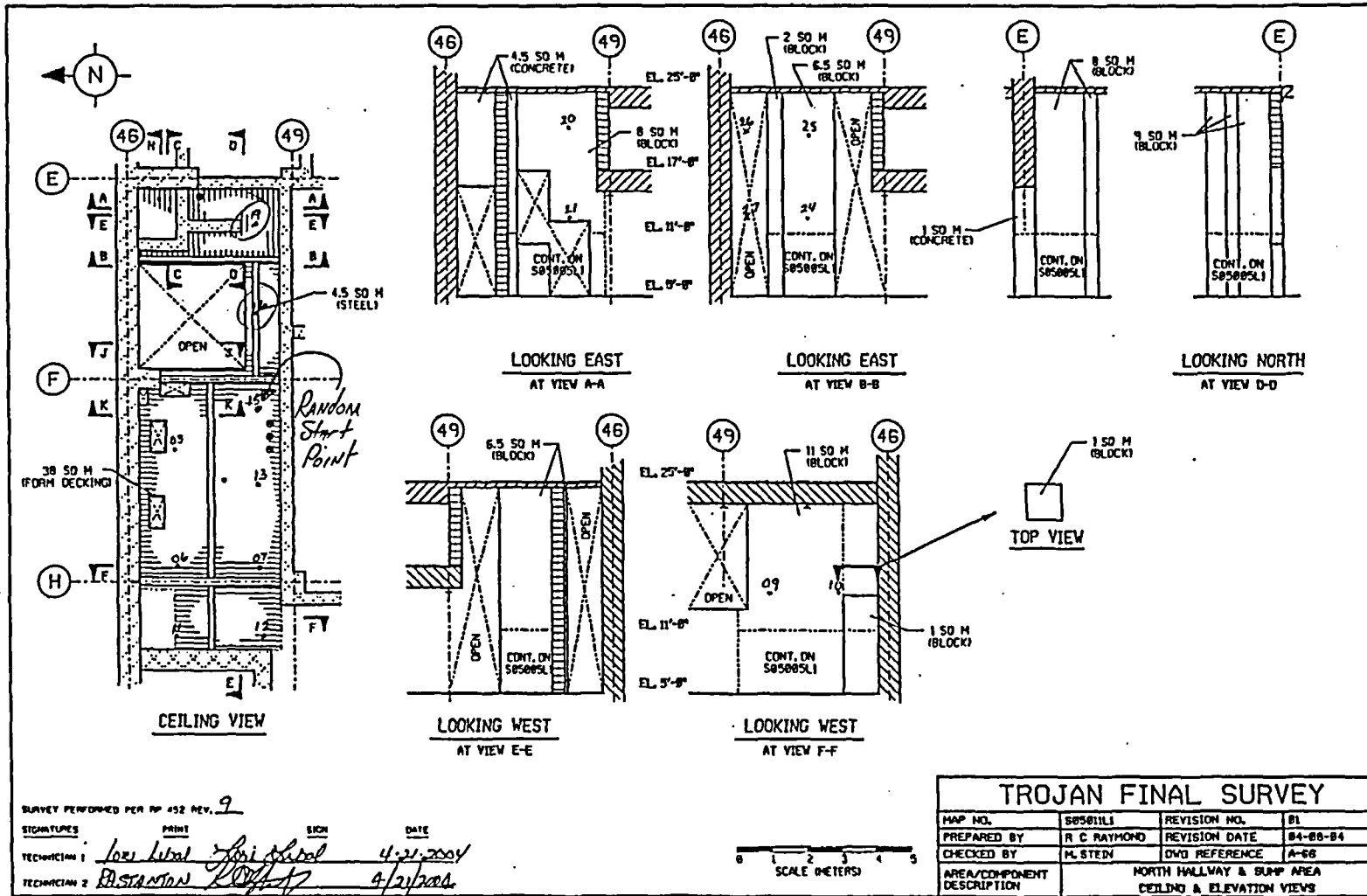
Survey Unit ID Code: S05011L

Survey Unit Name: AB 5' Elevation - North Hallway Upper Walls and Ceiling

Classification: Class 2

Size (m²): 185

Static Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

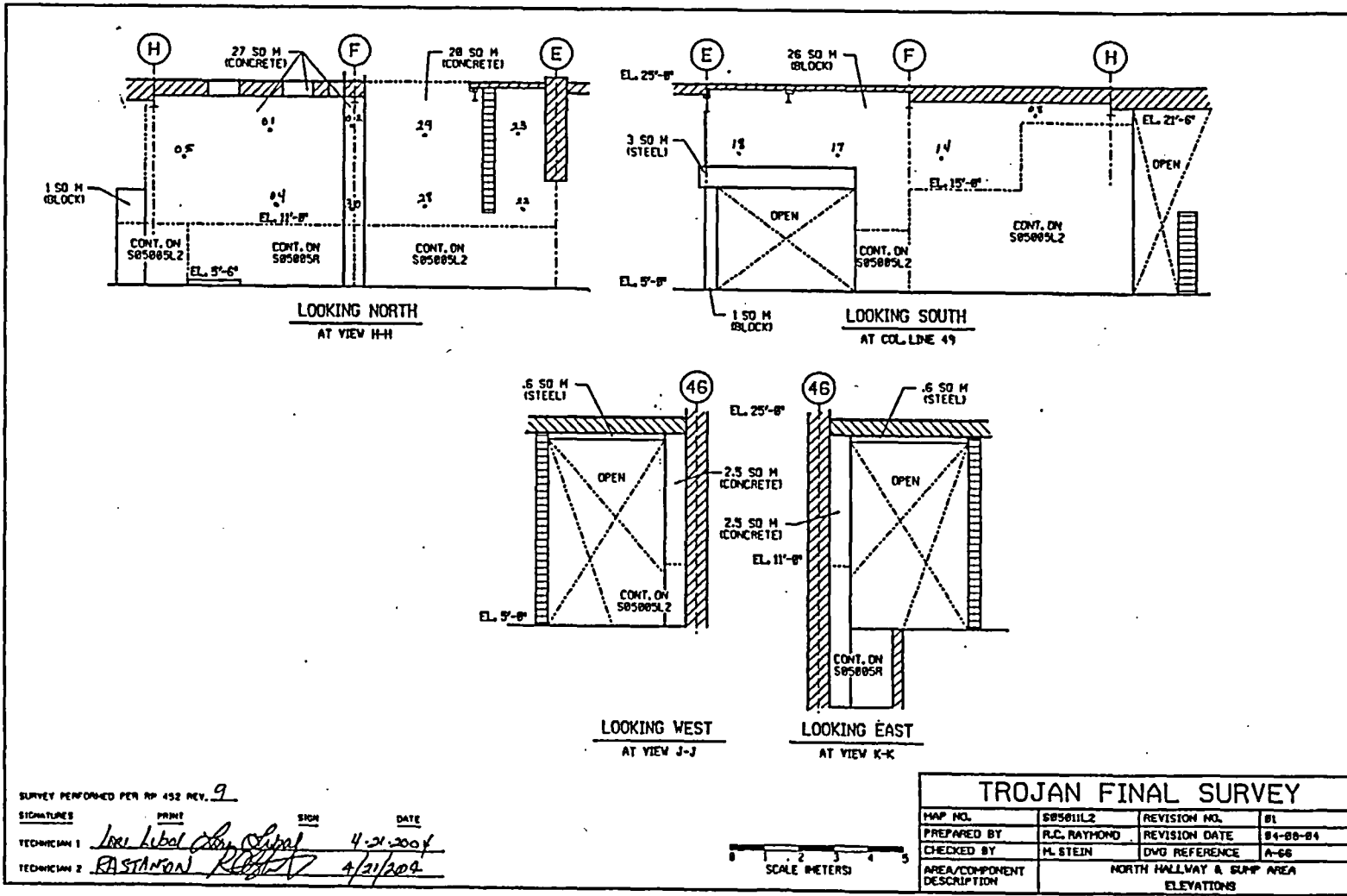
Survey Unit ID Code: S05011L

Survey Unit Name: AB 5' Elevation - North Hallway Upper Walls and Ceiling

Classification: Class 2

Size (m²): 185

Static Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05011M
 Survey Unit Name: AB 5' Elevation -
 Central Hallway Upper Walls and Ceiling

Classification: Class 2
 Size (m²): 101

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|-----------------------|------------|-------------------------|------------|-----|-----|
| 1 | 30 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 6.883e+002
 Maximum Value : 1.019e+003
 Range : 3.307e+002
 Median : 7.824e+002
 Std. Deviation : 7.477e+001
 Mean : 7.933e+002
 95% UCL : 8.164e+002

Measurement Values

| Location | Value | Location | Value |
|----------|------------|----------|------------|
| 000001 | 9.140e+002 | 000018 | 7.786e+002 |
| 000002 | 7.410e+002 | 000019 | 7.184e+002 |
| 000003 | 7.034e+002 | 000020 | 7.974e+002 |
| 000004 | 7.937e+002 | 000021 | 8.614e+002 |
| 000005 | 1.019e+003 | 000022 | 8.538e+002 |
| 000006 | 8.877e+002 | 000023 | 8.651e+002 |
| 000007 | 7.147e+002 | 000024 | 6.883e+002 |
| 000008 | 8.501e+002 | 000025 | 8.425e+002 |
| 000009 | 7.259e+002 | 000026 | 7.861e+002 |
| 000010 | 8.237e+002 | 000027 | 7.222e+002 |
| 000011 | 7.372e+002 | 000028 | 7.711e+002 |
| 000012 | 8.125e+002 | 000029 | 8.651e+002 |
| 000013 | 7.372e+002 | 000030 | 8.012e+002 |
| 000014 | 6.996e+002 | | |
| 000015 | 7.673e+002 | | |
| 000016 | 7.523e+002 | | |
| 000017 | 7.673e+002 | | |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05011M

Classification: Class 2

Survey Unit Name: AB 5' Elevation -

Size (m²): 101

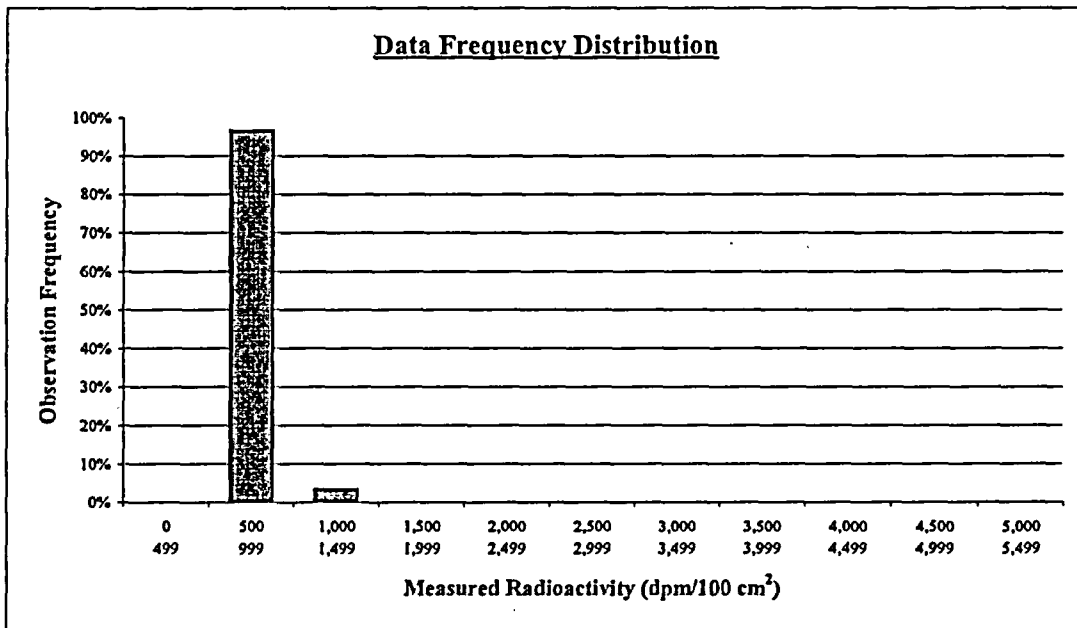
Central Hallway Upper Walls and Ceiling

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | |
|-------------------------|------------------|---------------------|-------------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? |
| Range | 331 | 374 | Pass |
| Median | 0.143 | 0.500 | Pass |
| Mean | 793 | 6,000 | Pass |
| Std Dev | 75 | 1,500 | Pass |

| Statistical Quantities | |
|------------------------|-------|
| Range: | 331 |
| Median: | 783 |
| Mean: | 793 |
| Std Dev: | 75 |
| Minimum: | 688 |
| Maximum: | 1,019 |
| DCGL: | 7,500 |

All data less than DCGL; Sign statistical test not required.



| Plot Parameters | |
|---------------------|-------|
| # of measurements: | 30 |
| # of intervals: | 11 |
| Interval increment: | 500 |
| Minimum: | 0 |
| Maximum: | 5,499 |

| Interval | High End | Low End | Number of Observations | Observation Frequency |
|----------|----------|---------|------------------------|-----------------------|
| 1 | 499 | 0 | 0 | 0% |
| 2 | 999 | 500 | 29 | 97% |
| 3 | 1,499 | 1,000 | 1 | 3% |
| 4 | 1,999 | 1,500 | 0 | 0% |
| 5 | 2,499 | 2,000 | 0 | 0% |
| 6 | 2,999 | 2,500 | 0 | 0% |
| 7 | 3,499 | 3,000 | 0 | 0% |
| 8 | 3,999 | 3,500 | 0 | 0% |
| 9 | 4,499 | 4,000 | 0 | 0% |
| 10 | 4,999 | 4,500 | 0 | 0% |
| 11 | 5,499 | 5,000 | 0 | 0% |
| Total: | | | 30 | 100% |

Comment:

None.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05011M

Classification: Class 2

Survey Unit Name: AB 5' Elevation –
Central Hallway Upper Walls and Ceiling

Size (m²): 101

Judgmental and Miscellaneous Measurement Data

Measurement Type: Surface Scanning Beta

Scan Coverage (%): 35

Measurement Units: dpm/100cm²

Investigation Level: 7,500

Minimum Value: 915

Maximum Value: 1,426

Measurement Type: Removable Beta

Number of Measurements: 30

Measurement Units: dpm/100cm²

Investigation Level: 750

Minimum Value: 5

Maximum Value: 18

Discussion of Anomalous Measurement Data

Investigation Summary

No investigation required for this survey unit. No anomalous measurement data.

FINAL SURVEY RESULTS SUMMARY

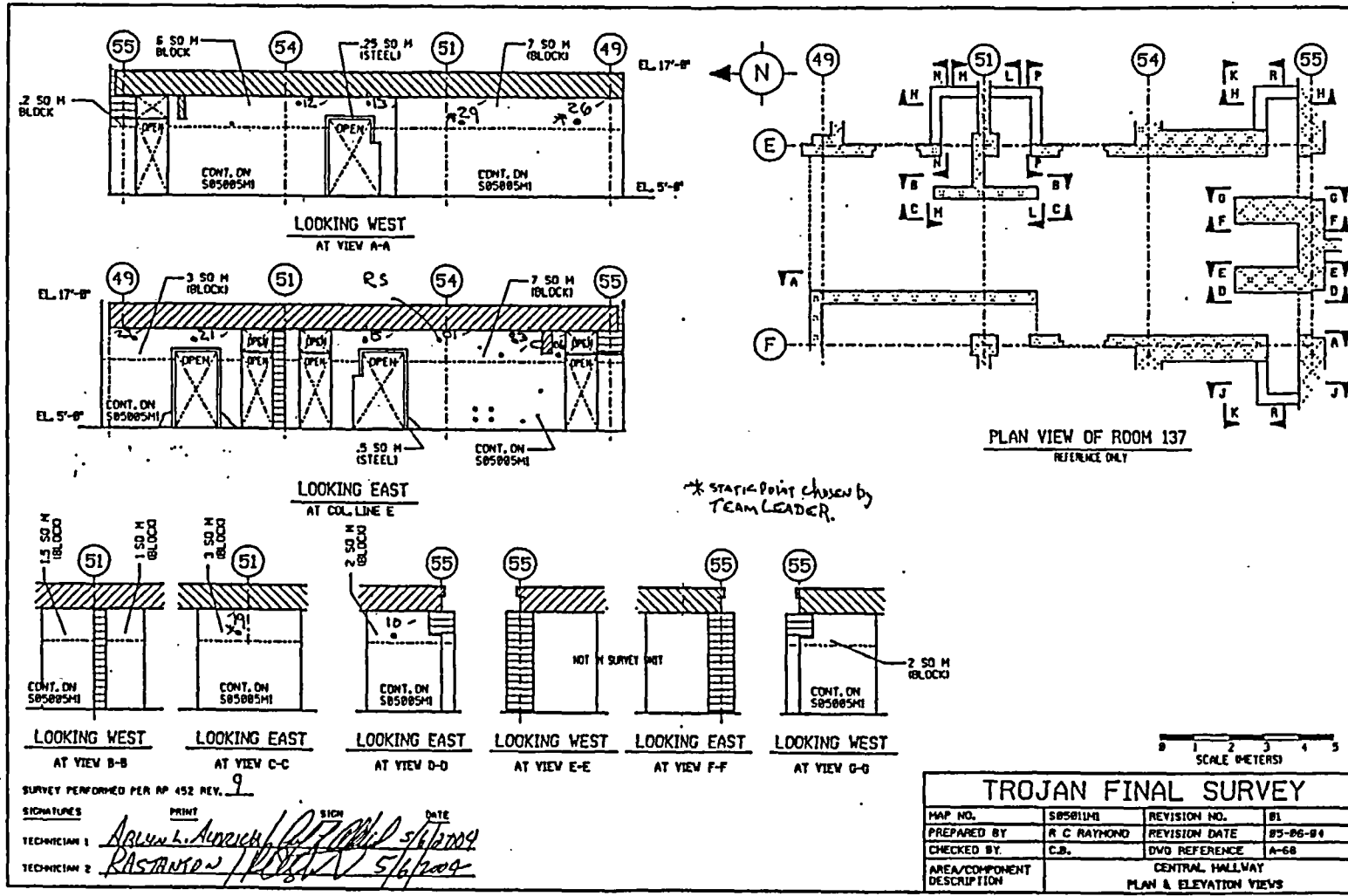
Survey Unit ID Code: S05011M

Survey Unit Name: AB 5' Elevation - Central Hallway Upper Walls and Ceiling

Classification: Class 2

Size (m²): 101

Static Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

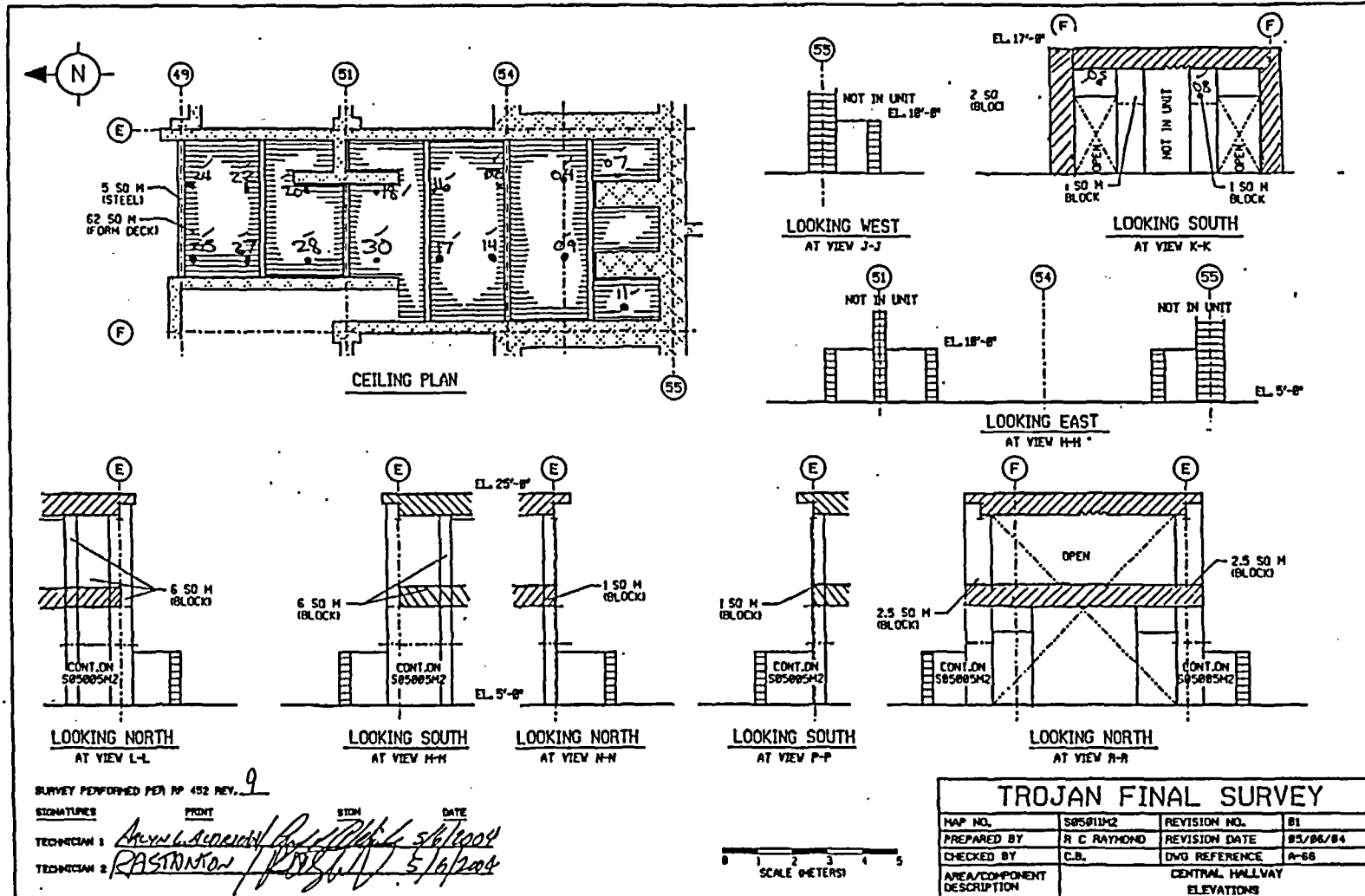
Survey Unit ID Code: S05011M

Survey Unit Name: AB 5' Elevation - Central Hallway Upper Walls and Ceiling

Classification: Class 2

Size (m²): 101

Static Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

| | |
|--|----------------------------|
| Survey Unit ID Code: S05011P | Classification: Class 2 |
| Survey Unit Name: AB 5' Elevation - "A" Containment Spray Pump Room Upper Walls and Ceiling | Size (m ²): 78 |

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|--------------------------|---------------|-------------------------|------------|-----|-----|
| 1 | 30 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 5.658e+002
 Maximum Value : 1.253e+003
 Range : 6.872e+002
 Median : 8.013e+002
 Std. Deviation : 1.357e+002
 Mean : 8.128e+002
 95% UCL : 8.548e+002

Measurement Values

| Location | Value | Location | Value |
|----------|------------|----------|------------|
| 000001 | 5.658e+002 | 000018 | 8.848e+002 |
| 000002 | 7.329e+002 | 000019 | 9.000e+002 |
| 000003 | 7.557e+002 | 000020 | 7.215e+002 |
| 000004 | 7.177e+002 | 000021 | 7.785e+002 |
| 000005 | 7.291e+002 | 000022 | 8.088e+002 |
| 000006 | 9.342e+002 | 000023 | 7.861e+002 |
| 000007 | 7.937e+002 | 000024 | 9.835e+002 |
| 000008 | 8.430e+002 | 000025 | 6.835e+002 |
| 000009 | 6.494e+002 | 000026 | 5.924e+002 |
| 000010 | 8.620e+002 | 000027 | 9.949e+002 |
| 000011 | 1.253e+003 | 000028 | 8.658e+002 |
| 000012 | 6.835e+002 | 000029 | 8.544e+002 |
| 000013 | 7.823e+002 | 000030 | 7.063e+002 |
| 000014 | 9.417e+002 | | |
| 000015 | 8.810e+002 | | |
| 000016 | 8.430e+002 | | |
| 000017 | 8.544e+002 | | |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05011P

Classification: Class 2

Survey Unit Name: AB 5' Elevation –

Size (m²): 78

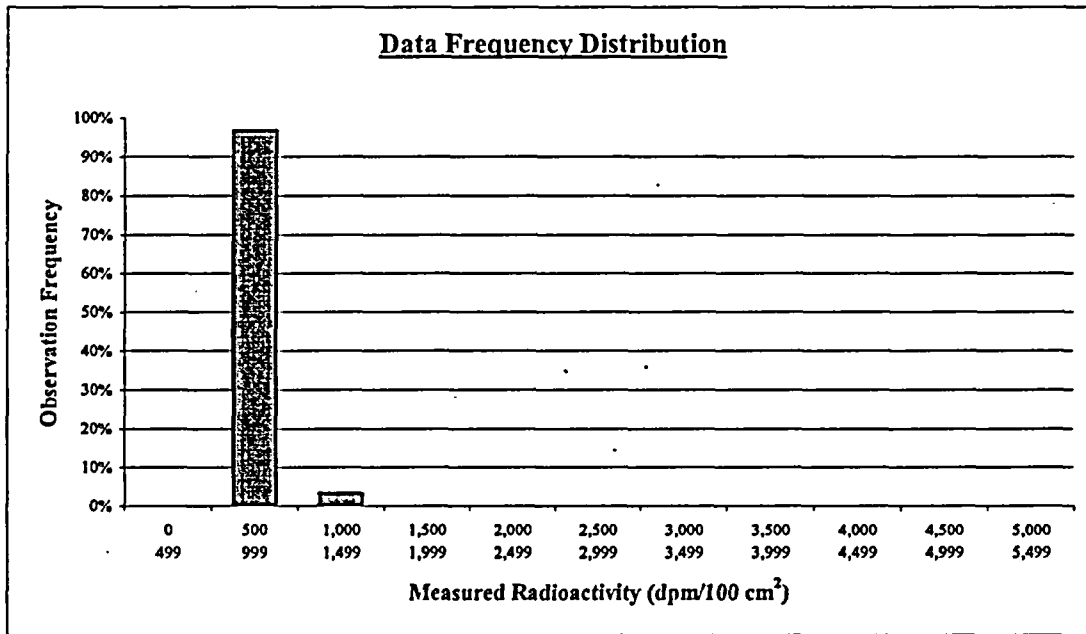
“A” Containment Spray Pump Room Upper Walls and Ceiling

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | |
|-------------------------|------------------|---------------------|-------------------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? |
| Range | 687 | 678 | See comment below |
| Median | 0.084 | 0.500 | Pass |
| Mean | 813 | 6,000 | Pass |
| Std Dev | 136 | 1,500 | Pass |

| Statistical Quantities | |
|------------------------|-------|
| Range: | 687 |
| Median: | 802 |
| Mean: | 813 |
| Std Dev: | 136 |
| Minimum: | 566 |
| Maximum: | 1,253 |
| DCGL: | 7,500 |

All data less than DCGL; Sign statistical test not required.



| Plot Parameters | |
|---------------------|-------|
| # of measurements: | 30 |
| # of intervals: | 11 |
| Interval increment: | 500 |
| Minimum: | 0 |
| Maximum: | 5,499 |

| Interval | High End | Low End | Number of Observations | Observation Frequency |
|---------------|----------|---------|------------------------|-----------------------|
| 1 | 499 | 0 | 0 | 0% |
| 2 | 999 | 500 | 29 | 97% |
| 3 | 1,499 | 1,000 | 1 | 3% |
| 4 | 1,999 | 1,500 | 0 | 0% |
| 5 | 2,499 | 2,000 | 0 | 0% |
| 6 | 2,999 | 2,500 | 0 | 0% |
| 7 | 3,499 | 3,000 | 0 | 0% |
| 8 | 3,999 | 3,500 | 0 | 0% |
| 9 | 4,499 | 4,000 | 0 | 0% |
| 10 | 4,999 | 4,500 | 0 | 0% |
| 11 | 5,499 | 5,000 | 0 | 0% |
| Total: | | | 30 | 100% |

Comment:

Range failure is a test artifact due to a single measurement value exceeding 1,000 dpm, while the other 29 values are between 600 & 1,000 dpm. All measurement values are valid, and accepted as representative of the survey unit.

FINAL SURVEY RESULTS SUMMARY

| | |
|---|---------------------------------|
| Survey Unit ID Code: S05011P | Classification: Class 2 |
| Survey Unit Name: AB 5' Elevation – "A" Containment Spray Pump Room Upper Walls and Ceiling | Size (m²): 78 |

Judgmental and Miscellaneous Measurement Data

| | |
|--|-----------------------------------|
| Measurement Type: Surface Scanning Beta | Scan Coverage (%): 35 |
| Measurement Units: dpm/100cm ² | Investigation Level: 7,500 |
| Minimum Value: 850 | Maximum Value: 1,535 |

| | |
|--|-----------------------------------|
| Measurement Type: Removable Beta | Number of Measurements: 30 |
| Measurement Units: dpm/100cm ² | Investigation Level: 750 |
| Minimum Value: 4 | Maximum Value: 18 |

Discussion of Anomalous Measurement Data

Investigation Summary

Reason for Investigation: Seven scan measurements exceeded the investigation level.

Elevated Measurement Comparison (EMC):

| | |
|---|------------------------|
| DCGL (Investigation Level): | 7,500 |
| Measurement Units: | dpm/100cm ² |
| Maximum Value: | 8,611 |
| Size of Area Exceeding DCGL (m²): | 0.016 |
| Size of Survey Unit (m²): | 85 |
| Survey Unit Area >DCGL (%): | 0.018 |
| EMC Value: | N/A |

Action Taken: Removed elevated area (upper east wall) from survey unit and added to existing Class 1 survey unit S05005P. Deleted scan and static measurements collected from area removed from survey unit.

Basis for Action Taken: Approximately 7 m² of surface area removed. Since change in surface area represents less than 0.2 m difference in systematic spacing patterns, original systematic spacing distribution for static measurements retained for both survey units.

FINAL SURVEY RESULTS SUMMARY

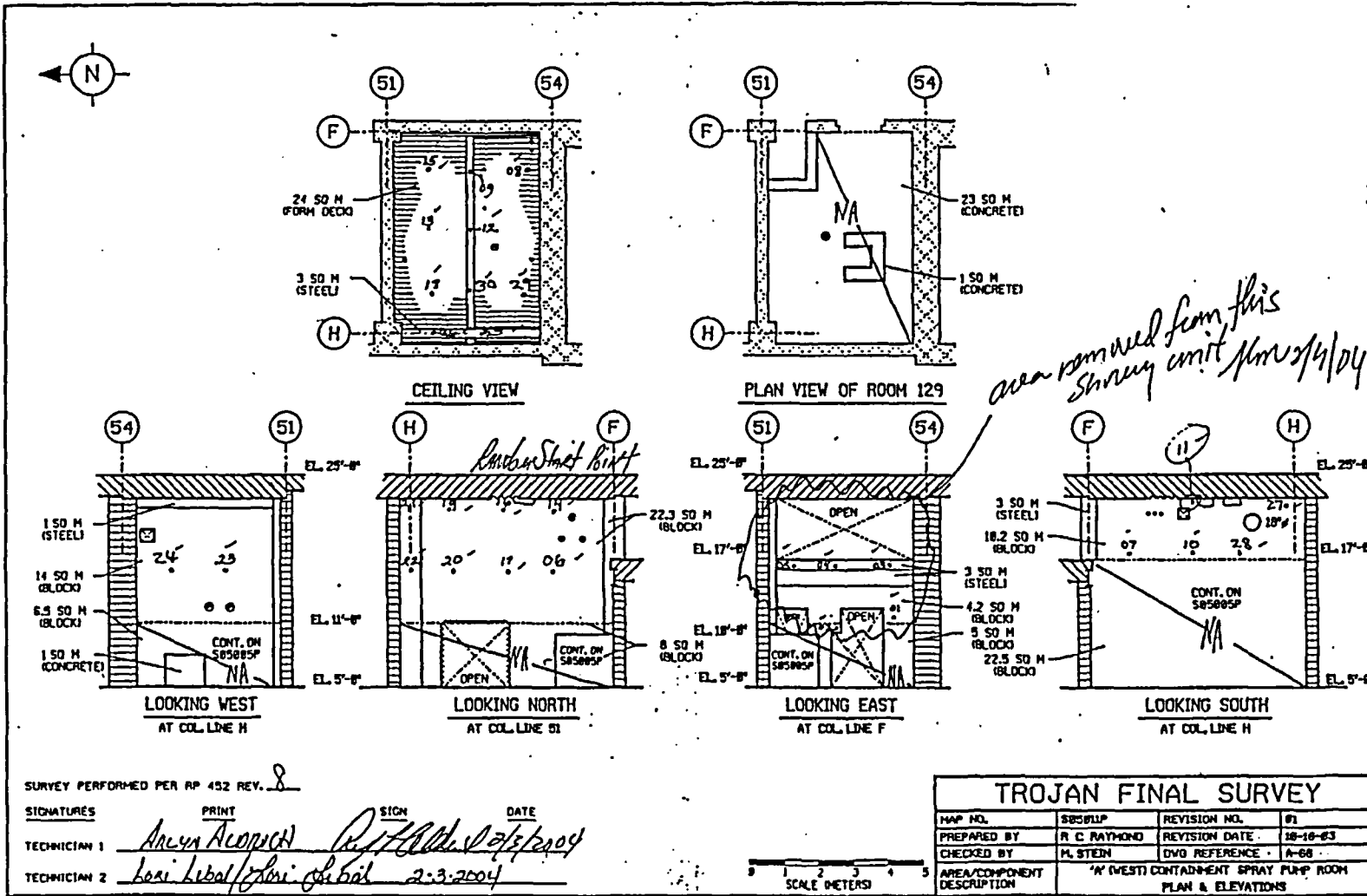
Survey Unit ID Code: S05011P

Survey Unit Name: AB 5' Elevation - "A" Containment Spray Pump Room Upper Walls and Ceiling

Classification: Class 2

Size (m²): 78

Static Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05015E

Classification: Class 2

Survey Unit Name: AB 5' Elevation -

Size (m²): 149

"B" RHR Heat Exchanger Room Upper Walls and Ceiling

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|-----------------------|------------|-------------------------|------------|-----|-----|
| 1 | 30 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 6.847e+002
 Maximum Value : 1.261e+003
 Range : 5.763e+002
 Median : 8.579e+002
 Std. Deviation : 1.551e+002
 Mean : 8.872e+002
 95% UCL : 9.353e+002

Measurement Values

| Location | Value | Location | Value |
|----------|------------|----------|------------|
| 000001 | 7.003e+002 | 000018 | 7.664e+002 |
| 000002 | 7.975e+002 | 000019 | 9.026e+002 |
| 000003 | 7.703e+002 | 000020 | 1.008e+003 |
| 000004 | 6.847e+002 | 000021 | 9.337e+002 |
| 000005 | 7.898e+002 | 000022 | 8.014e+002 |
| 000006 | 8.676e+002 | 000023 | 8.715e+002 |
| 000007 | 1.187e+003 | 000024 | 8.792e+002 |
| 000008 | 7.859e+002 | 000025 | 1.105e+003 |
| 000009 | 1.253e+003 | 000026 | 1.035e+003 |
| 000010 | 7.042e+002 | 000027 | 1.027e+003 |
| 000011 | 9.259e+002 | 000028 | 8.131e+002 |
| 000012 | 8.287e+002 | 000029 | 7.547e+002 |
| 000013 | 1.261e+003 | 000030 | 7.392e+002 |
| 000014 | 8.287e+002 | | |
| 000015 | 8.792e+002 | | |
| 000016 | 8.520e+002 | | |
| 000017 | 8.637e+002 | | |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05015E

Classification: Class 2

Survey Unit Name: AB 5' Elevation -

Size (m²): 149

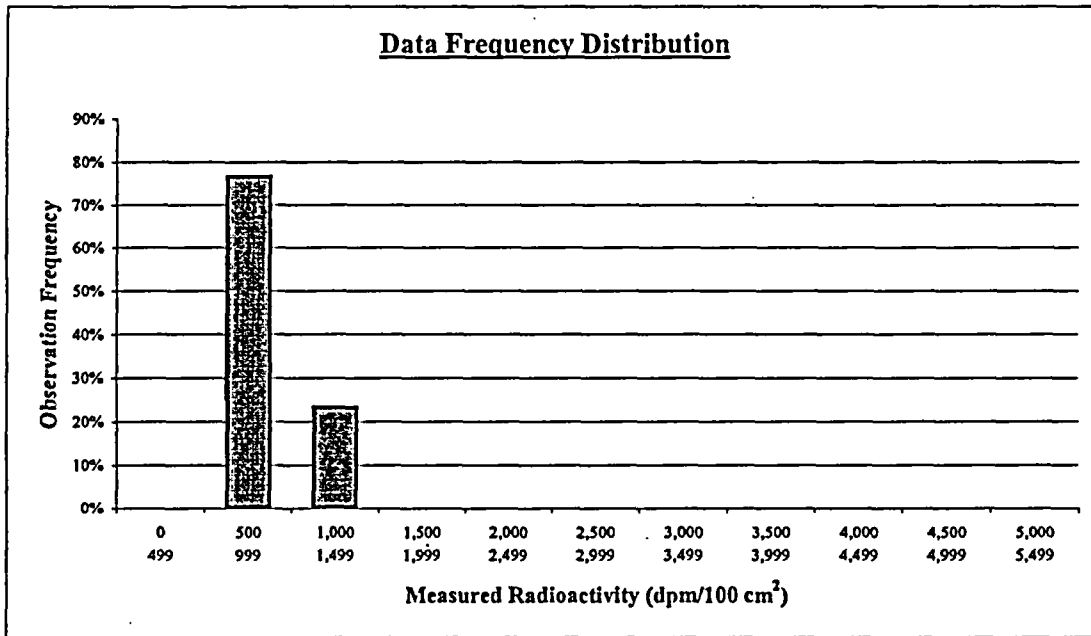
"B" RHR Heat Exchanger Room Upper Walls and Ceiling

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | |
|-------------------------|------------------|---------------------|-------------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? |
| Range | 576 | 776 | Pass |
| Median | 0.189 | 0.500 | Pass |
| Mean | 887 | 6,000 | Pass |
| Std Dev | 155 | 1,500 | Pass |

| Statistical Quantities | |
|------------------------|-------|
| Range: | 576 |
| Median: | 888 |
| Mean: | 887 |
| Std Dev: | 155 |
| Minimum: | 685 |
| Maximum: | 1,261 |
| DCGL: | 7,500 |

All data less than DCGL; Sign statistical test not required.



| Plot Parameters | |
|---------------------|-------|
| # of measurements: | 30 |
| # of intervals: | 11 |
| Interval increment: | 500 |
| Minimum: | 0 |
| Maximum: | 5,499 |

Comment:
None.

| Interval | High End | Low End | Number of Observations | Observation Frequency |
|----------|----------|---------|------------------------|-----------------------|
| 1 | 499 | 0 | 0 | 0% |
| 2 | 999 | 500 | 23 | 77% |
| 3 | 1,499 | 1,000 | 7 | 23% |
| 4 | 1,999 | 1,500 | 0 | 0% |
| 5 | 2,499 | 2,000 | 0 | 0% |
| 6 | 2,999 | 2,500 | 0 | 0% |
| 7 | 3,499 | 3,000 | 0 | 0% |
| 8 | 3,999 | 3,500 | 0 | 0% |
| 9 | 4,499 | 4,000 | 0 | 0% |
| 10 | 4,999 | 4,500 | 0 | 0% |
| 11 | 5,499 | 5,000 | 0 | 0% |
| Total: | | | 30 | 100% |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05015E **Classification:** Class 2
Survey Unit Name: AB 5' Elevation – **Size (m²):** 149
"B" RHR Heat Exchanger Room Upper Walls and Ceiling

Judgmental and Miscellaneous Measurement Data

Measurement Type: Surface Scanning Beta **Scan Coverage (%):** 35
Measurement Units: dpm/100cm² **Investigation Level:** 7,500
Minimum Value: 931 **Maximum Value:** 1,540

Measurement Type: Removable Beta **Number of Measurements:** 30
Measurement Units: dpm/100cm² **Investigation Level:** 750
Minimum Value: 51 **Maximum Value:** 82

Discussion of Anomalous Measurement Data

Investigation Summary

No investigation required for this survey unit. No anomalous measurement data.

FINAL SURVEY RESULTS SUMMARY

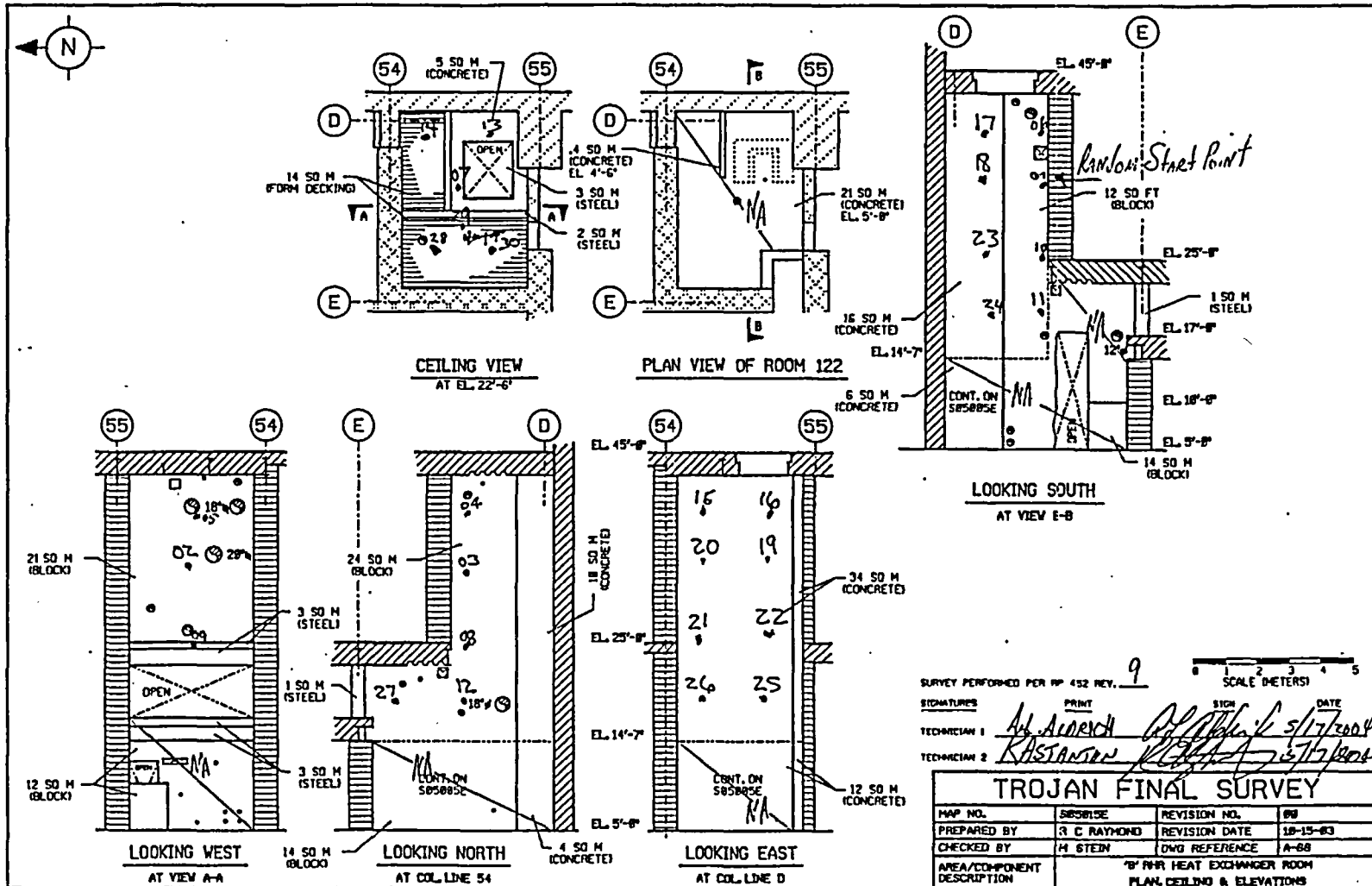
Survey Unit ID Code: S05015E

Survey Unit Name: AB 5' Elevation - "B" RHR Heat Exchanger Room Upper Walls and Ceiling

Classification: Class 2

Size (m²): 149

Static Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05015Q

Classification: Class 2

Survey Unit Name: AB 5' Elevation -

Size (m²): 40

Dirty Waste Tank and Pump Room Ceilings

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|--------------------------|---------------|-------------------------|------------|-----|-----|
| 1 | 30 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 5.040e+002
 Maximum Value : 9.215e+002
 Range : 4.175e+002
 Median : 7.635e+002
 Std. Deviation : 9.881e+001
 Mean : 7.638e+002
 95% UCL : 7.944e+002

Measurement Values

| Location | Value | Location | Value |
|----------|------------|----------|------------|
| 000001 | 7.184e+002 | 000018 | 8.689e+002 |
| 000002 | 7.485e+002 | 000019 | 7.259e+002 |
| 000003 | 7.861e+002 | 000020 | 7.711e+002 |
| 000004 | 7.937e+002 | 000021 | 6.996e+002 |
| 000005 | 7.147e+002 | 000022 | 9.065e+002 |
| 000006 | 8.162e+002 | 000023 | 7.448e+002 |
| 000007 | 8.877e+002 | 000024 | 6.582e+002 |
| 000008 | 7.184e+002 | 000025 | 5.981e+002 |
| 000009 | 8.162e+002 | 000026 | 8.350e+002 |
| 000010 | 9.215e+002 | 000027 | 5.830e+002 |
| 000011 | 7.372e+002 | 000028 | 5.040e+002 |
| 000012 | 8.200e+002 | 000029 | 8.990e+002 |
| 000013 | 6.770e+002 | 000030 | 8.538e+002 |
| 000014 | 8.576e+002 | | |
| 000015 | 7.598e+002 | | |
| 000016 | 7.259e+002 | | |
| 000017 | 7.673e+002 | | |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05015Q

Classification: Class 2

Survey Unit Name: AB 5' Elevation -

Size (m²): 40

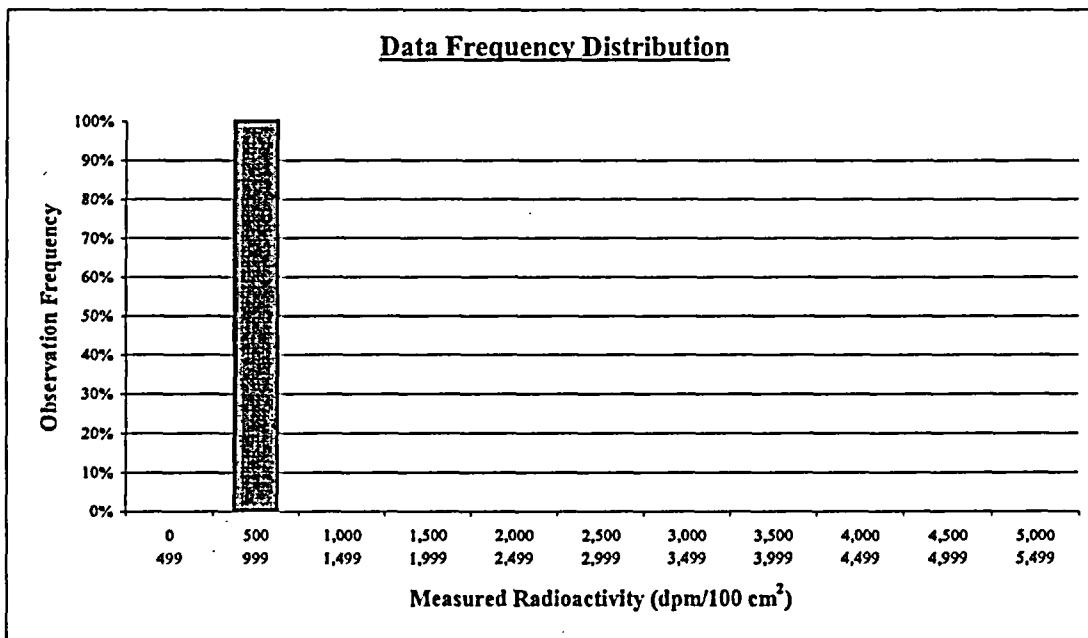
Dirty Waste Tank and Pump Room Ceilings

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | |
|-------------------------|------------------|---------------------|-------------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? |
| Range | 418 | 494 | Pass |
| Median | 0.003 | 0.500 | Pass |
| Mean | 764 | 6,000 | Pass |
| Std Dev | 99 | 1,500 | Pass |

| Statistical Quantities | |
|------------------------|-------|
| Range: | 418 |
| Median: | 764 |
| Mean: | 764 |
| Std Dev: | 99 |
| Minimum: | 504 |
| Maximum: | 922 |
| DCGL: | 7,500 |

All data less than DCGL; Sign statistical test not required.



| Plot Parameters | |
|---------------------|-------|
| # of measurements: | 30 |
| # of intervals: | 11 |
| Interval increment: | 500 |
| Minimum: | 0 |
| Maximum: | 5,499 |

| Interval | High End | Low End | Number of Observations | Observation Frequency |
|----------|----------|---------|------------------------|-----------------------|
| 1 | 499 | 0 | 0 | 0% |
| 2 | 999 | 500 | 30 | 100% |
| 3 | 1,499 | 1,000 | 0 | 0% |
| 4 | 1,999 | 1,500 | 0 | 0% |
| 5 | 2,499 | 2,000 | 0 | 0% |
| 6 | 2,999 | 2,500 | 0 | 0% |
| 7 | 3,499 | 3,000 | 0 | 0% |
| 8 | 3,999 | 3,500 | 0 | 0% |
| 9 | 4,499 | 4,000 | 0 | 0% |
| 10 | 4,999 | 4,500 | 0 | 0% |
| 11 | 5,499 | 5,000 | 0 | 0% |
| Total: | | | 30 | 100% |

Comment:
None.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05015Q

Classification: Class 2

Survey Unit Name: AB 5' Elevation –

Size (m²): 40

Dirty Waste Tank and Pump Room Ceilings

Judgmental and Miscellaneous Measurement Data

Measurement Type: Surface Scanning Beta

Scan Coverage (%): 35

Measurement Units: dpm/100cm²

Investigation Level: 7,500

Minimum Value: 775

Maximum Value: 1,189

Measurement Type: Removable Beta

Number of Measurements: 30

Measurement Units: dpm/100cm²

Investigation Level: 750

Minimum Value: 5

Maximum Value: 18

Discussion of Anomalous Measurement Data

Investigation Summary

No investigation required for this survey unit. No anomalous measurement data.

FINAL SURVEY RESULTS SUMMARY

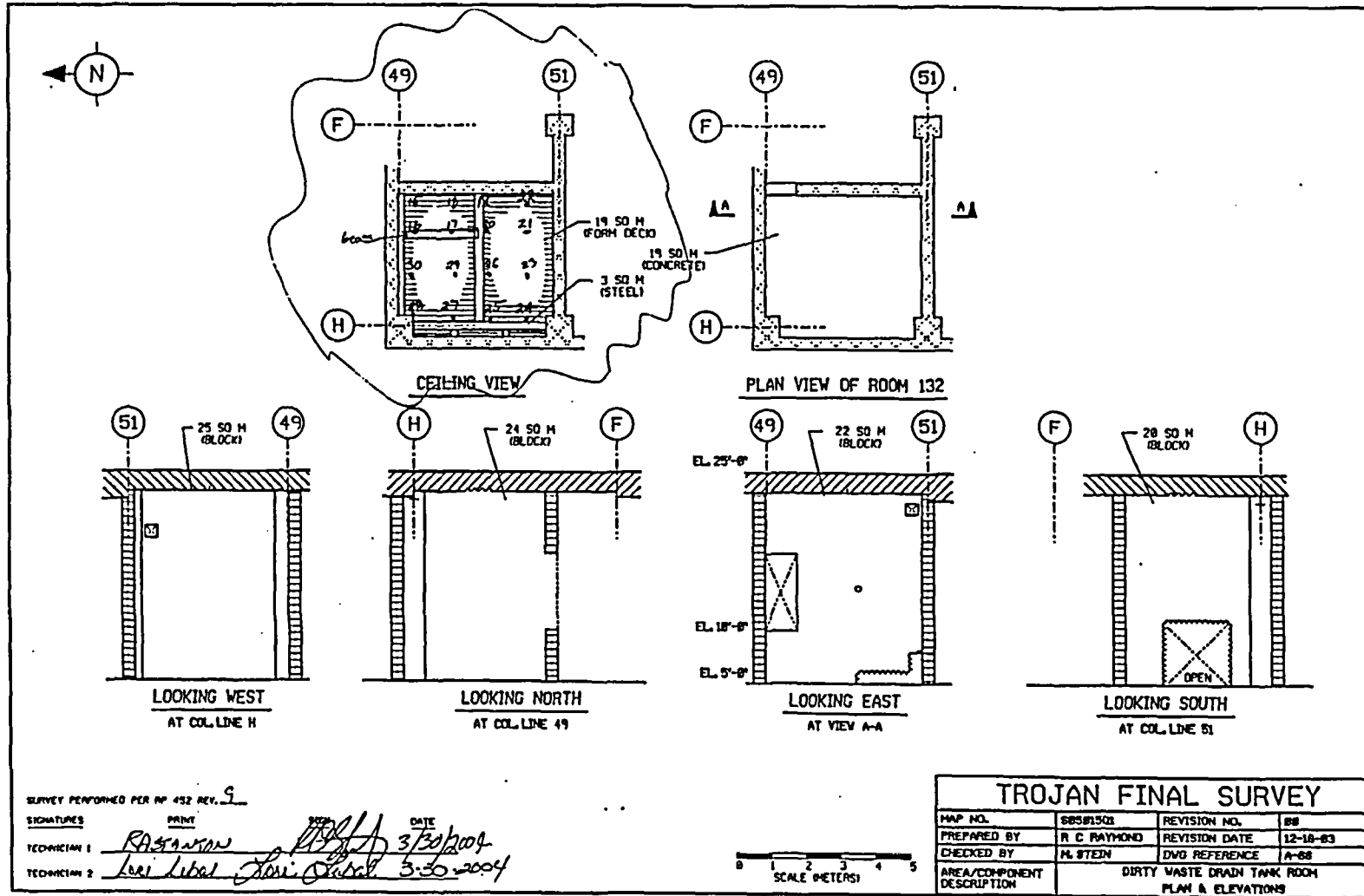
Survey Unit ID Code: S05015Q

Survey Unit Name: AB 5' Elevation - Dirty Waste Tank and Pump Rooms Ceiling

Classification: Class 2

Size (m²): 40

Static Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

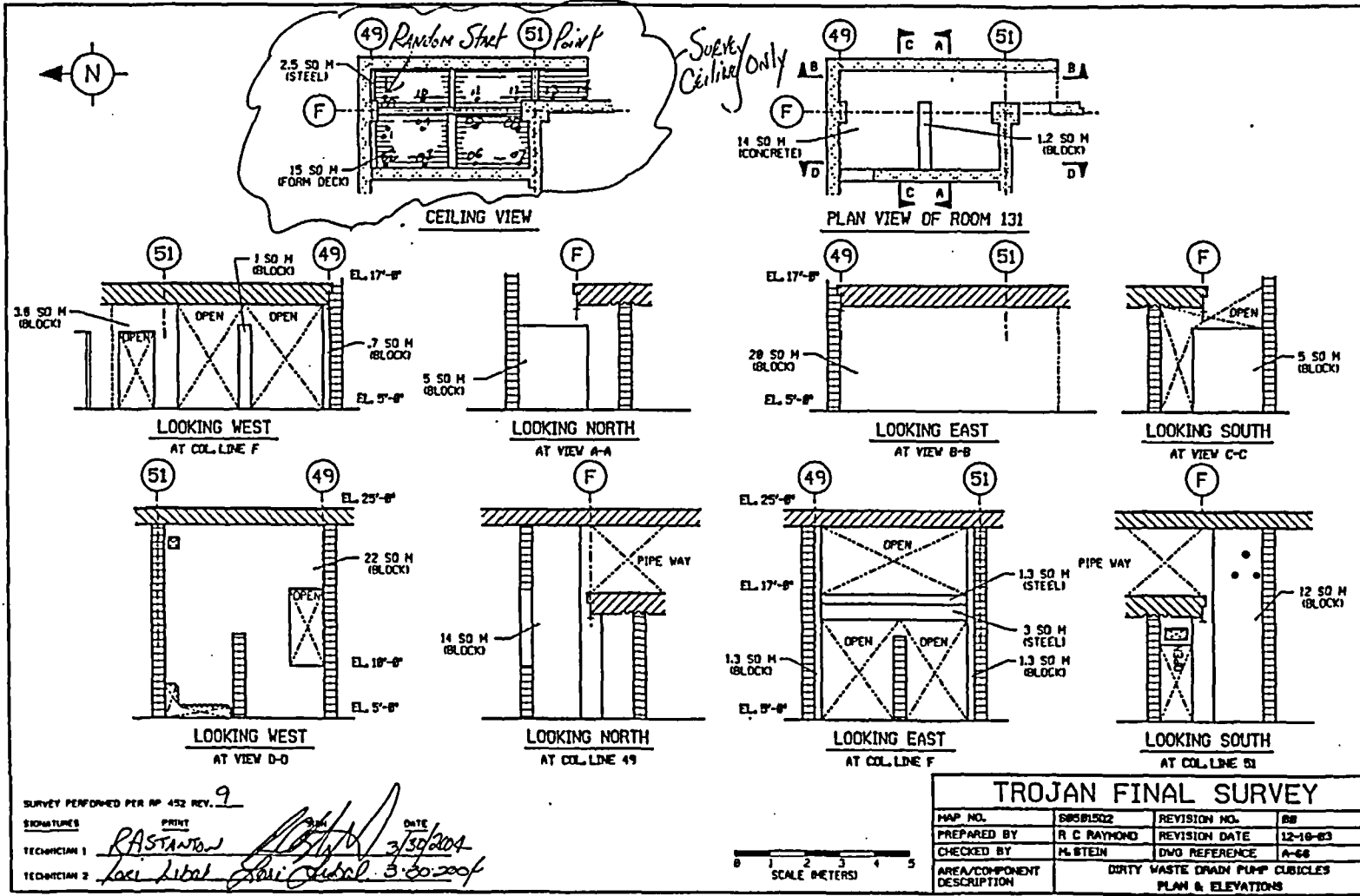
Survey Unit ID Code: S05015Q

Survey Unit Name: AB 5' Elevation - Dirty Waste Tank and Pump Rooms Ceiling

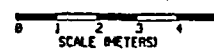
Classification: Class 2

Size (m²): 40

Static Measurement Locations Map



SURVEY PERFORMED PER RP 452 REV. 9
 SIGNATURES: *R. Astanow* (PRINT), *[Signature]* (DATE: 3/30/2004)
 TECHNICIAN 1: *[Signature]*
 TECHNICIAN 2: *[Signature]* (DATE: 3/30/2004)



| TROJAN FINAL SURVEY | | | |
|----------------------------|---|---------------|----------|
| MAP NO. | S05015Q2 | REVISION NO. | 08 |
| PREPARED BY | R. C. RAYMOND | REVISION DATE | 12-18-03 |
| CHECKED BY | M. STEIN | DWG REFERENCE | A-68 |
| AREA/COMPONENT DESCRIPTION | DIRTY WASTE DRAIN PUMP CUBICLES PLAN & ELEVATIONS | | |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05017A
 Survey Unit Name: AB 17' Elevation -
 East Horizontal Pipe Chase Floor and Walls

Classification: Class 1
 Size (m²): 78

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|-----------------------|------------|-------------------------|------------|-----|-----|
| 1 | 30 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 6.873e+002
 Maximum Value : 2.444e+003
 Range : 1.757e+003
 Median : 2.048e+003
 Std. Deviation : 7.136e+002
 Mean : 1.625e+003
 95% UCL : 1.846e+003

Measurement Values

| Location | Value | Location | Value |
|----------|------------|----------|------------|
| 000001 | 2.152e+003 | 000018 | 2.343e+003 |
| 000002 | 2.083e+003 | 000019 | 6.873e+002 |
| 000003 | 2.165e+003 | 000020 | 6.987e+002 |
| 000004 | 2.070e+003 | 000021 | 7.405e+002 |
| 000005 | 2.025e+003 | 000022 | 7.937e+002 |
| 000006 | 2.260e+003 | 000023 | 7.823e+002 |
| 000007 | 1.949e+003 | 000024 | 8.088e+002 |
| 000008 | 2.140e+003 | 000025 | 6.949e+002 |
| 000009 | 2.292e+003 | 000026 | 8.392e+002 |
| 000010 | 1.968e+003 | 000027 | 7.595e+002 |
| 000011 | 2.102e+003 | 000028 | 8.012e+002 |
| 000012 | 2.330e+003 | 000029 | 8.164e+002 |
| 000013 | 2.368e+003 | 000030 | 9.114e+002 |
| 000014 | 2.102e+003 | | |
| 000015 | 2.337e+003 | | |
| 000016 | 2.286e+003 | | |
| 000017 | 2.444e+003 | | |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05017A

Classification: Class 1

Survey Unit Name: AB 17' Elevation -

Size (m²): 78

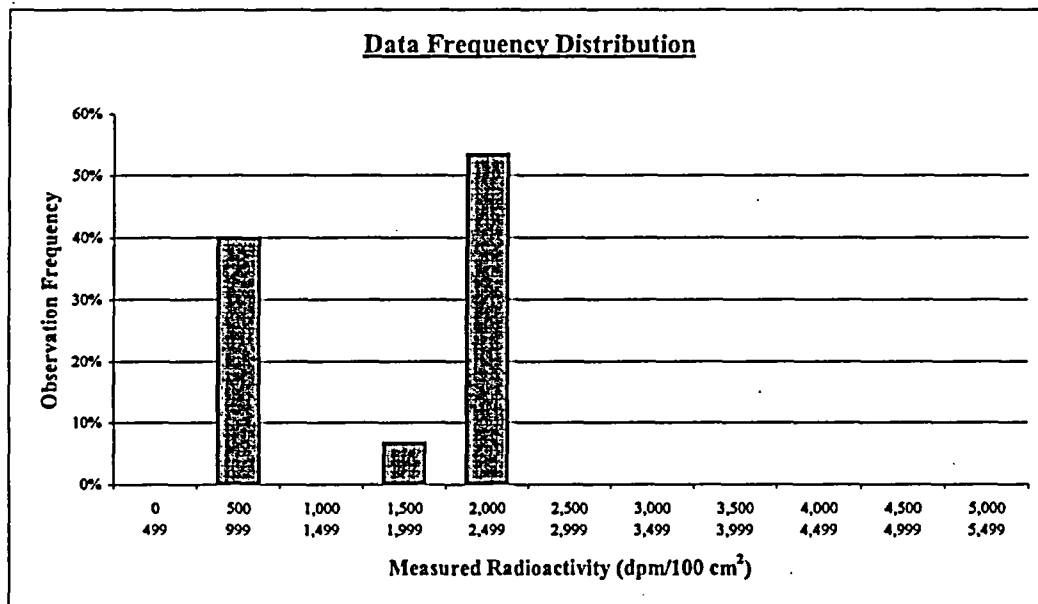
East Horizontal Pipe Chase Floor and Walls

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | |
|-------------------------|------------------|---------------------|-------------------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? |
| Range | 1,757 | 3,568 | Pass |
| Median | 0.592 | 0.500 | See comment below |
| Mean | 1,625 | 6,000 | Pass |
| Std Dev | 714 | 1,500 | Pass |

| Statistical Quantities | |
|------------------------|-------|
| Range: | 1,757 |
| Median: | 2,048 |
| Mean: | 1,625 |
| Std Dev: | 714 |
| Minimum: | 687 |
| Maximum: | 2,444 |
| DCGL: | 7,500 |

All data less than DCGL; Sign statistical test not required.



| Plot Parameters | Interval | High End | Low End | Number of Observations | Observation Frequency |
|-------------------------|---------------|----------|---------|------------------------|-----------------------|
| # of measurements: 30 | 1 | 499 | 0 | 0 | 0% |
| # of intervals: 11 | 2 | 999 | 500 | 12 | 40% |
| Interval increment: 500 | 3 | 1,499 | 1,000 | 0 | 0% |
| Minimum: 0 | 4 | 1,999 | 1,500 | 2 | 7% |
| Maximum: 5,499 | 5 | 2,499 | 2,000 | 16 | 53% |
| | 6 | 2,999 | 2,500 | 0 | 0% |
| | 7 | 3,499 | 3,000 | 0 | 0% |
| | 8 | 3,999 | 3,500 | 0 | 0% |
| | 9 | 4,499 | 4,000 | 0 | 0% |
| | 10 | 4,999 | 4,500 | 0 | 0% |
| | 11 | 5,499 | 5,000 | 0 | 0% |
| | Total: | | | 30 | 100% |

Comment:

The data set contains values from both smooth and scabbled concrete surfaces, resulting in an expected bimodal distribution, due to different detector efficiency factors for the 2 geometries.

The test failure does not represent an invalid data set.

This statistical comparison is not meaningful for an expected bimodal distribution. All measurement values are valid and accepted.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05017A

Classification: Class 1

Survey Unit Name: AB 17' Elevation –
East Horizontal Pipe Chase Floor and Walls

Size (m²): 78

Judgmental and Miscellaneous Measurement Data

Measurement Type: Surface Scanning Beta
Measurement Units: dpm/100cm²
Minimum Value: 808

Scan Coverage (%): 100
Investigation Level: 7,500
Maximum Value: 6,598

Measurement Type: Removable Beta
Measurement Units: dpm/100cm²
Minimum Value: 3

Number of Measurements: 30
Investigation Level: 750
Maximum Value: 18

Discussion of Anomalous Measurement Data

Investigation Summary Reason for Investigation: One scan measurement exceeded the investigation level.

Elevated Measurement Comparison (EMC):

| | |
|---|------------------------|
| DCGL (Investigation Level): | 7,500 |
| Measurement Units: | dpm/100cm ² |
| Maximum Value: | 8,956 |
| Size of Area Exceeding DCGL (m²): | N/A |
| Size of Survey Unit (m²): | N/A |
| Survey Unit Area >DCGL (%): | N/A |
| EMC Value: | N/A |

Action Taken: Corrected measurement values for scan location per guidance in memo FS-018-03. Replaced original scan result in SDMS with these results, all of which corrected to less than the investigation level.

Basis for Action Taken: Technical basis memorandum FS-018-03 provides guidance for correcting SDMS determined scan results for locations that exceed the investigation level by subtracting instrument background from the field results.

FINAL SURVEY RESULTS SUMMARY

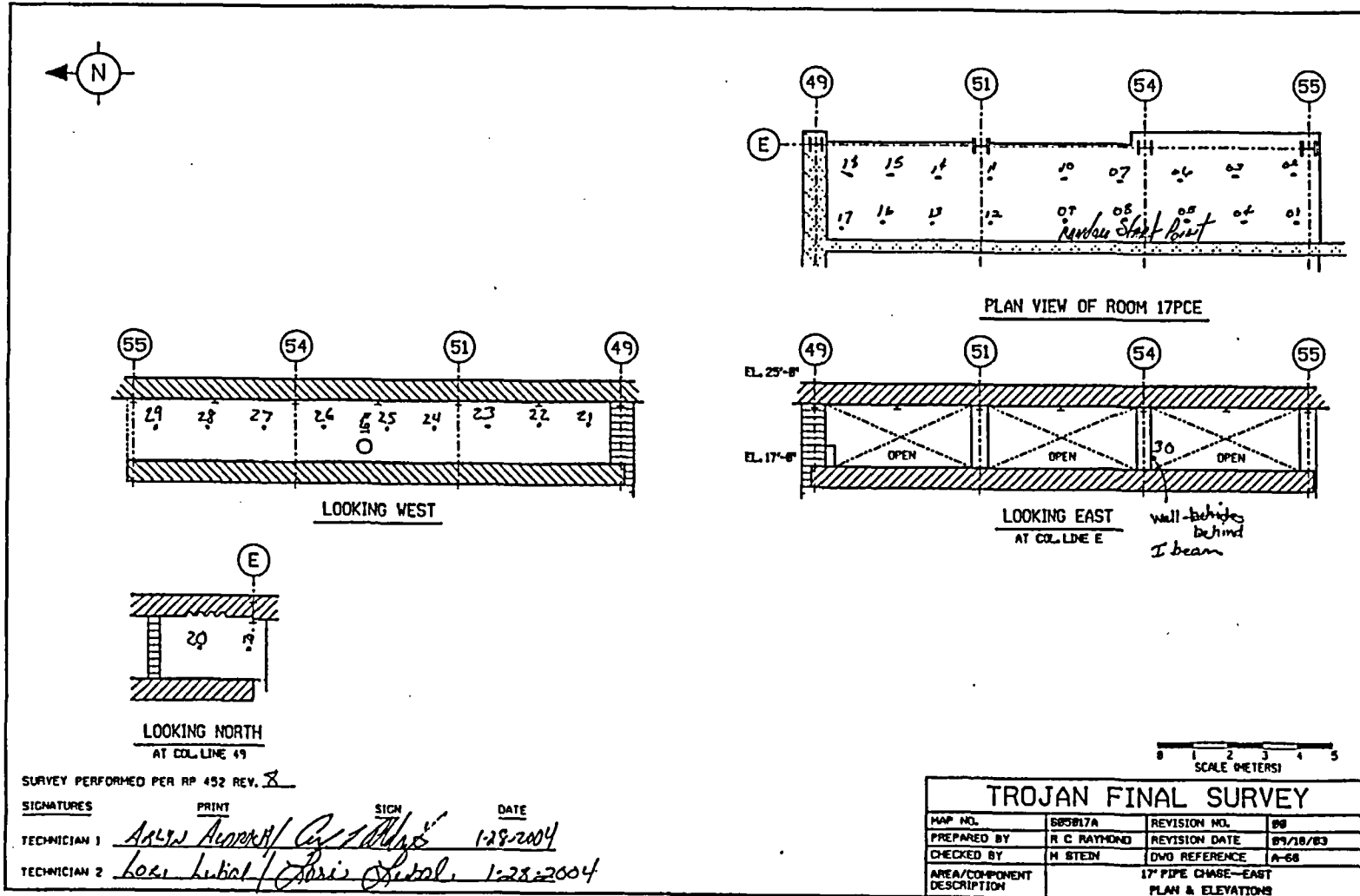
Survey Unit ID Code: S05017A

Survey Unit Name: AB 5' Elevation - East Horizontal Pipe Chase Floor and Walls

Classification: Class 1

Size (m²): 78

Static Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05017B

Classification: Class 1

Survey Unit Name: AB 17' Elevation -

Size (m²): 77

West Horizontal Pipe Chase Floor and Walls

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|-----------------------|------------|-------------------------|------------|-----|-----|
| 1 | 30 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 4.291e+002
 Maximum Value : 6.552e+003
 Range : 6.123e+003
 Median : 1.978e+003
 Std. Deviation : 1.130e+003
 Mean : 1.711e+003
 95% UCL : 2.062e+003

Measurement Values

| Location | Value | Location | Value |
|----------|------------|----------|------------|
| 000001 | 1.949e+003 | 000018 | 2.197e+003 |
| 000002 | 2.006e+003 | 000019 | 8.126e+002 |
| 000003 | 1.924e+003 | 000020 | 1.249e+003 |
| 000004 | 6.552e+003 | 000021 | 7.215e+002 |
| 000005 | 2.203e+003 | 000022 | 8.202e+002 |
| 000006 | 2.184e+003 | 000023 | 6.911e+002 |
| 000007 | 2.083e+003 | 000024 | 7.747e+002 |
| 000008 | 2.197e+003 | 000025 | 7.367e+002 |
| 000009 | 2.210e+003 | 000026 | 7.101e+002 |
| 000010 | 2.051e+003 | 000027 | 7.557e+002 |
| 000011 | 2.222e+003 | 000028 | 8.164e+002 |
| 000012 | 2.057e+003 | 000029 | 7.329e+002 |
| 000013 | 2.057e+003 | 000030 | 4.291e+002 |
| 000014 | 1.854e+003 | | |
| 000015 | 2.121e+003 | | |
| 000016 | 2.159e+003 | | |
| 000017 | 2.063e+003 | | |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05017B

Classification: Class 1

Survey Unit Name: AB 17' Elevation –

Size (m²): 77

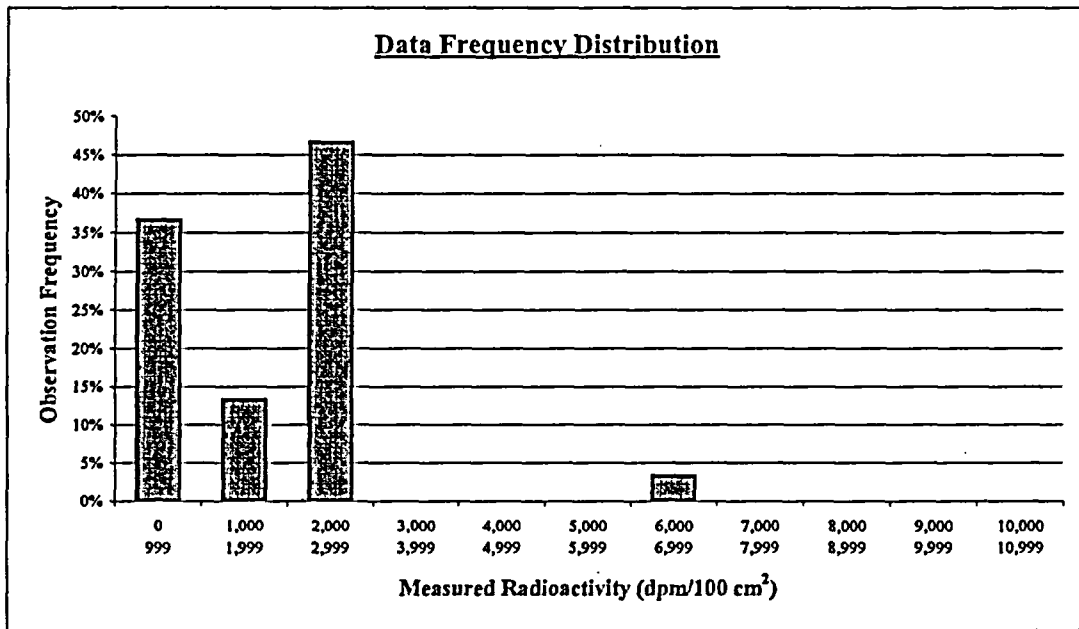
West Horizontal Pipe Chase Floor and Walls

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | |
|-------------------------|------------------|---------------------|-------------------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? |
| Range | 6,123 | 5,652 | See comment below |
| Median | 0.235 | 0.500 | Pass |
| Mean | 1,711 | 6,000 | Pass |
| Std Dev | 1,130 | 1,500 | Pass |

| Statistical Quantities | |
|------------------------|-------|
| Range: | 6,123 |
| Median: | 1,978 |
| Mean: | 1,711 |
| Std Dev: | 1,130 |
| Minimum: | 429 |
| Maximum: | 6,552 |
| DCGL: | 7,500 |

All data less than DCGL; Sign statistical test not required.



| Plot Parameters | |
|---------------------|--------|
| # of measurements: | 30 |
| # of intervals: | 11 |
| Interval increment: | 1,000 |
| Minimum: | 0 |
| Maximum: | 10,999 |

| Interval | High End | Low End | Number of Observations | Observation Frequency |
|----------|----------|---------|------------------------|-----------------------|
| 1 | 999 | 0 | 11 | 37% |
| 2 | 1,999 | 1,000 | 4 | 13% |
| 3 | 2,999 | 2,000 | 14 | 47% |
| 4 | 3,999 | 3,000 | 0 | 0% |
| 5 | 4,999 | 4,000 | 0 | 0% |
| 6 | 5,999 | 5,000 | 0 | 0% |
| 7 | 6,999 | 6,000 | 1 | 3% |
| 8 | 7,999 | 7,000 | 0 | 0% |
| 9 | 8,999 | 8,000 | 0 | 0% |
| 10 | 9,999 | 9,000 | 0 | 0% |
| 11 | 10,999 | 10,000 | 0 | 0% |
| Total: | | | 30 | 100% |

Comment:

Range failure is a test artifact due to a single measurement value greater than 6,000 dpm, and the other 29 measurement values all less than 3,000 dpm. All data are valid & acceptd.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05017B

Classification: Class 1

Survey Unit Name: AB 17' Elevation –

Size (m²): 77

West Horizontal Pipe Chase Floor and Walls

Judgmental and Miscellaneous Measurement Data

Measurement Type: Surface Scanning Beta

Scan Coverage (%): 100

Measurement Units: dpm/100cm²

Investigation Level: 7,500

Minimum Value: 765

Maximum Value: 32,290

Measurement Type: Removable Beta

Number of Measurements: 30

Measurement Units: dpm/100cm²

Investigation Level: 750

Minimum Value: 3

Maximum Value: 33

Discussion of Anomalous Measurement Data

Investigation Summary

Reason for Investigation: One scan measurement exceeded the investigation level.

Elevated Measurement Comparison (EMC):

| | |
|---|------------------------|
| DCGL (Investigation Level): | 7,500 |
| Measurement Units: | dpm/100cm ² |
| Maximum Value: | 32,287 |
| Size of Area Exceeding DCGL (m²): | 0.016 |
| Size of Survey Unit (m²): | 77 |
| Survey Unit Area >DCGL (%): | 0.02 |
| EMC Value: | 36,750 |

Action Taken: Corrected measurement values for scan locations in a similar method for measurements obtained with a 43-68 gas flow proportional detector as per guidance in memo FS-018-03. Replaced original scan results in SDMS with these corrected results. Applied EMC data processing to scan location 080 that remains elevated.

Basis for Action Taken: Technical basis memorandum FS-018-03 provides guidance for correcting SDMS determined scan results for locations that exceed the investigation level by subtracting instrument background from the field results.

FINAL SURVEY RESULTS SUMMARY

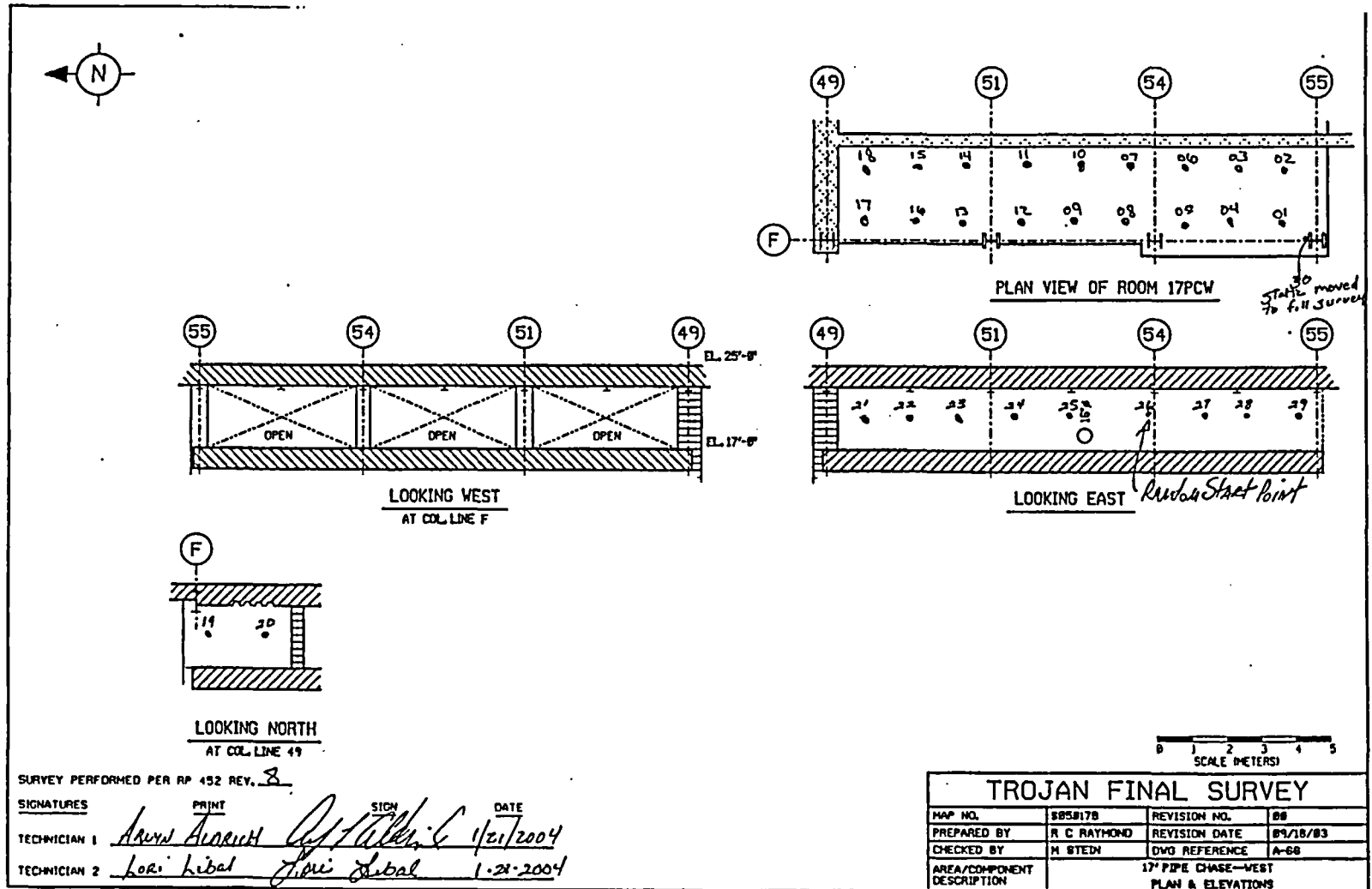
Survey Unit ID Code: S05017B

Classification: Class 1

Survey Unit Name: AB 17' Elevation - West Horizontal Pipe Chase Floor and Walls

Size (m²): 77

Static Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05017C
 Survey Unit Name: AB 17' to 37' Elevations -
 Vertical Pipe Chase

Classification: Class 2
 Size (m²): 13

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|-----------------------|------------|-------------------------|------------|-----|-----|
| 1 | 36 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 9.358e+002
 Maximum Value : 1.358e+003
 Range : 4.222e+002
 Median : 1.159e+003
 Std. Deviation : 9.473e+001
 Mean : 1.163e+003
 95% UCL : 1.190e+003

Measurement Values

| Location | Value | Location | Value | Location | Value |
|----------|------------|----------|------------|----------|------------|
| 000001 | 1.165e+003 | 000018 | 9.950e+002 | 000035 | 1.070e+003 |
| 000002 | 1.137e+003 | 000019 | 1.264e+003 | 000036 | 1.264e+003 |
| 000003 | 9.358e+002 | 000020 | 1.165e+003 | | |
| 000004 | 1.066e+003 | 000021 | 1.149e+003 | | |
| 000005 | 1.110e+003 | 000022 | 1.271e+003 | | |
| 000006 | 1.291e+003 | 000023 | 1.145e+003 | | |
| 000007 | 1.185e+003 | 000024 | 1.149e+003 | | |
| 000008 | 1.066e+003 | 000025 | 1.185e+003 | | |
| 000009 | 1.323e+003 | 000026 | 1.153e+003 | | |
| 000010 | 1.066e+003 | 000027 | 1.232e+003 | | |
| 000011 | 1.090e+003 | 000028 | 9.950e+002 | | |
| 000012 | 1.185e+003 | 000029 | 1.244e+003 | | |
| 000013 | 1.169e+003 | 000030 | 1.133e+003 | | |
| 000014 | 1.307e+003 | 000031 | 1.106e+003 | | |
| 000015 | 1.181e+003 | 000032 | 1.358e+003 | | |
| 000016 | 1.153e+003 | 000033 | 1.252e+003 | | |
| 000017 | 1.185e+003 | 000034 | 1.133e+003 | | |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05017C
 Survey Unit Name: AB 17' to 37' Elevations -
 Vertical Pipe Chase

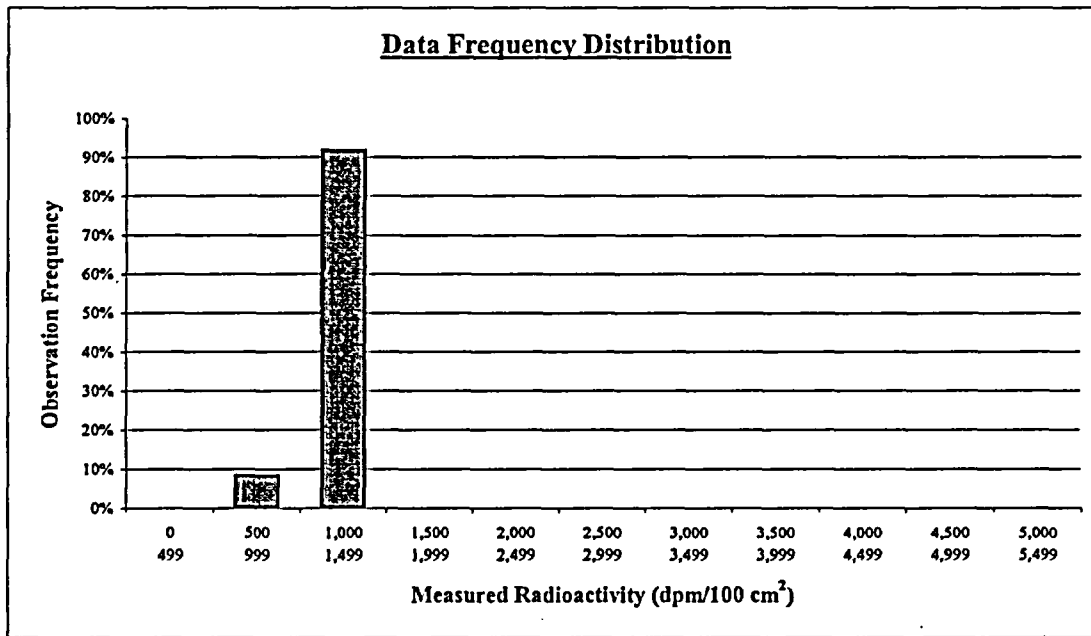
Classification: Class 2
 Size (m²): 13

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | |
|-------------------------|------------------|---------------------|-------------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? |
| Range | 422 | 474 | Pass |
| Median | 0.045 | 0.500 | Pass |
| Mean | 1,163 | 6,000 | Pass |
| Std Dev | 95 | 1,500 | Pass |

| Statistical Quantities | |
|------------------------|-------|
| Range: | 422 |
| Median: | 1,159 |
| Mean: | 1,163 |
| Std Dev: | 95 |
| Minimum: | 936 |
| Maximum: | 1,358 |
| DCGL: | 7,500 |

All data less than DCGL; Sign statistical test not required.



| Plot Parameters | |
|---------------------|-------|
| # of measurements: | 36 |
| # of intervals: | 11 |
| Interval increment: | 500 |
| Minimum: | 0 |
| Maximum: | 5,499 |

Comment:
 None.

| Interval | High End | Low End | Number of Observations | Observation Frequency |
|----------|----------|---------|------------------------|-----------------------|
| 1 | 499 | 0 | 0 | 0% |
| 2 | 999 | 500 | 3 | 8% |
| 3 | 1,499 | 1,000 | 33 | 92% |
| 4 | 1,999 | 1,500 | 0 | 0% |
| 5 | 2,499 | 2,000 | 0 | 0% |
| 6 | 2,999 | 2,500 | 0 | 0% |
| 7 | 3,499 | 3,000 | 0 | 0% |
| 8 | 3,999 | 3,500 | 0 | 0% |
| 9 | 4,499 | 4,000 | 0 | 0% |
| 10 | 4,999 | 4,500 | 0 | 0% |
| 11 | 5,499 | 5,000 | 0 | 0% |
| Total: | | | 36 | 100% |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05017C
Survey Unit Name: AB 17' to 37' Elevations –
Vertical Pipe Chase

Classification: Class 2
Size (m²): 13

Judgmental and Miscellaneous Measurement Data

Measurement Type: Surface Scanning Beta
Measurement Units: dpm/100cm²
Minimum Value: 1,242

Scan Coverage (%): 40
Investigation Level: 7,500
Maximum Value: 1,509

Measurement Type: Removable Beta
Measurement Units: dpm/100cm²
Minimum Value: 5

Number of Measurements: 36
Investigation Level: 750
Maximum Value: 17

Discussion of Anomalous Measurement Data

Investigation Summary

No investigation required for this survey unit. No anomalous measurement data.

FINAL SURVEY RESULTS SUMMARY

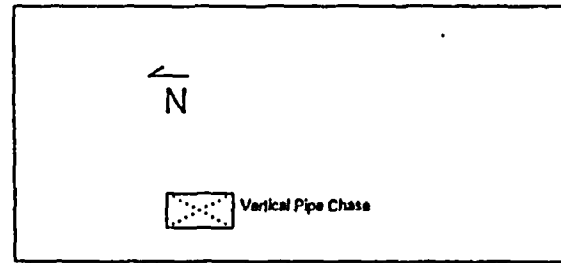
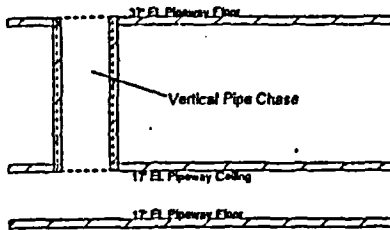
Survey Unit ID Code: S05017C

Survey Unit Name: AB 17' to 37' Elevations - Vertical Pipe Chase

Classification: Class 2

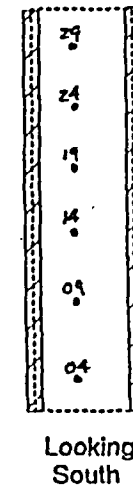
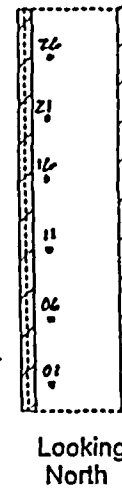
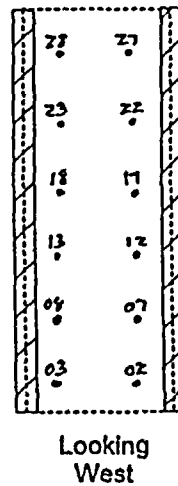
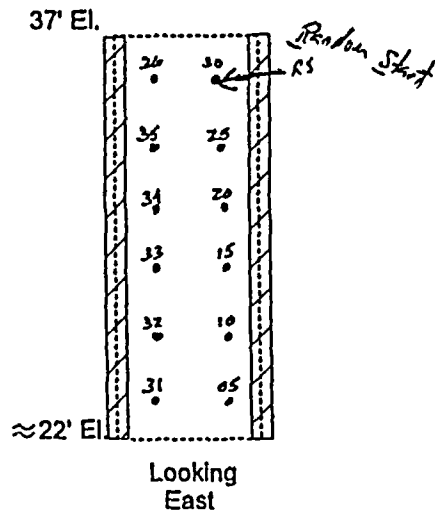
Size (m²): 13

Static Measurement Locations Map



37' Horizontal Pipe Way
Plan View

Data Collected IAW RP 452 Rev. 8
 Survey Technician: *[Signature]* Date: 12-23-2004
 Survey Technician: *[Signature]* Date: 12-23-2004



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05023A

Classification: Class 2

Survey Unit Name: AB 17' Elevation -
East Horizontal Pipe Chase Ceiling

Size (m²): 41

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|-----------------------|------------|-------------------------|------------|-----|-----|
| 1 | 30 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
Minimum Value : 6.721e+002
Maximum Value : 9.038e+002
Range : 2.317e+002
Median : 7.974e+002
Std. Deviation : 5.533e+001
Mean : 8.077e+002
95% UCL : 8.249e+002

Measurement Values

| Location | Value | Location | Value |
|----------|------------|----------|------------|
| 000001 | 7.709e+002 | 000018 | 8.316e+002 |
| 000002 | 7.974e+002 | 000019 | 8.240e+002 |
| 000003 | 7.671e+002 | 000020 | 7.747e+002 |
| 000004 | 7.671e+002 | 000021 | 7.671e+002 |
| 000005 | 7.974e+002 | 000022 | 8.696e+002 |
| 000006 | 7.861e+002 | 000023 | 8.696e+002 |
| 000007 | 6.721e+002 | 000024 | 8.050e+002 |
| 000008 | 7.519e+002 | 000025 | 7.481e+002 |
| 000009 | 8.354e+002 | 000026 | 7.519e+002 |
| 000010 | 7.557e+002 | 000027 | 8.772e+002 |
| 000011 | 8.886e+002 | 000028 | 9.038e+002 |
| 000012 | 7.709e+002 | 000029 | 8.430e+002 |
| 000013 | 7.633e+002 | 000030 | 8.696e+002 |
| 000014 | 8.810e+002 | | |
| 000015 | 8.582e+002 | | |
| 000016 | 8.582e+002 | | |
| 000017 | 7.747e+002 | | |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05023A
 Survey Unit Name: AB 17' Elevation -
 East Horizontal Pipe Chase Ceiling

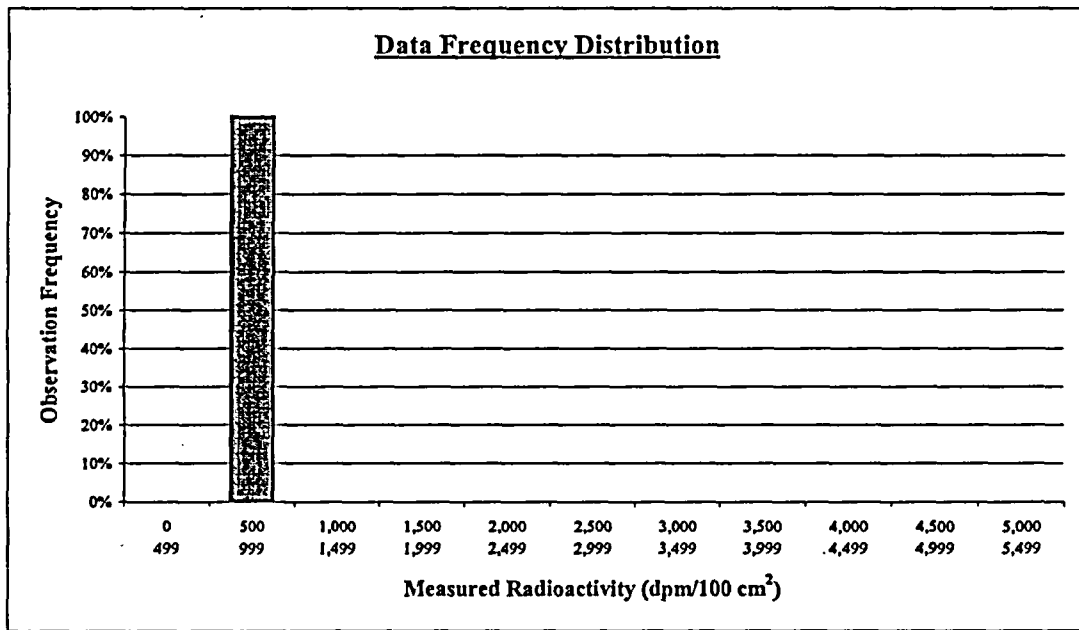
Classification: Class 2
 Size (m²): 41

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | |
|-------------------------|------------------|---------------------|-------------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? |
| Range | 232 | 277 | Pass |
| Median | 0.186 | 0.500 | Pass |
| Mean | 808 | 6,000 | Pass |
| Std Dev | 55 | 1,500 | Pass |

| Statistical Quantities | |
|------------------------|-------|
| Range: | 232 |
| Median: | 797 |
| Mean: | 808 |
| Std Dev: | 55 |
| Minimum: | 672 |
| Maximum: | 904 |
| DCGL: | 7,500 |

All data less than DCGL; Sign statistical test not required.



| Plot Parameters | |
|---------------------|-------|
| # of measurements: | 30 |
| # of intervals: | 11 |
| Interval increment: | 500 |
| Minimum: | 0 |
| Maximum: | 5,499 |

Comment:
None.

| Interval | High End | Low End | Number of Observations | Observation Frequency |
|----------|----------|---------|------------------------|-----------------------|
| 1 | 499 | 0 | 0 | 0% |
| 2 | 999 | 500 | 30 | 100% |
| 3 | 1,499 | 1,000 | 0 | 0% |
| 4 | 1,999 | 1,500 | 0 | 0% |
| 5 | 2,499 | 2,000 | 0 | 0% |
| 6 | 2,999 | 2,500 | 0 | 0% |
| 7 | 3,499 | 3,000 | 0 | 0% |
| 8 | 3,999 | 3,500 | 0 | 0% |
| 9 | 4,499 | 4,000 | 0 | 0% |
| 10 | 4,999 | 4,500 | 0 | 0% |
| 11 | 5,499 | 5,000 | 0 | 0% |
| Total: | | | 30 | 100% |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05023A
Survey Unit Name: AB 17' Elevation –
East Horizontal Pipe Chase Ceiling

Classification: Class 2
Size (m²): 41

Judgmental and Miscellaneous Measurement Data

Measurement Type: Surface Scanning Beta
Measurement Units: dpm/100cm²
Minimum Value: 896

Scan Coverage (%): 35
Investigation Level: 7,500
Maximum Value: 1,469

Measurement Type: Removable Beta
Measurement Units: dpm/100cm²
Minimum Value: 4

Number of Measurements: 30
Investigation Level: 750
Maximum Value: 15

Discussion of Anomalous Measurement Data

Investigation Summary

No investigation required for this survey unit. No anomalous measurement data.

FINAL SURVEY RESULTS SUMMARY

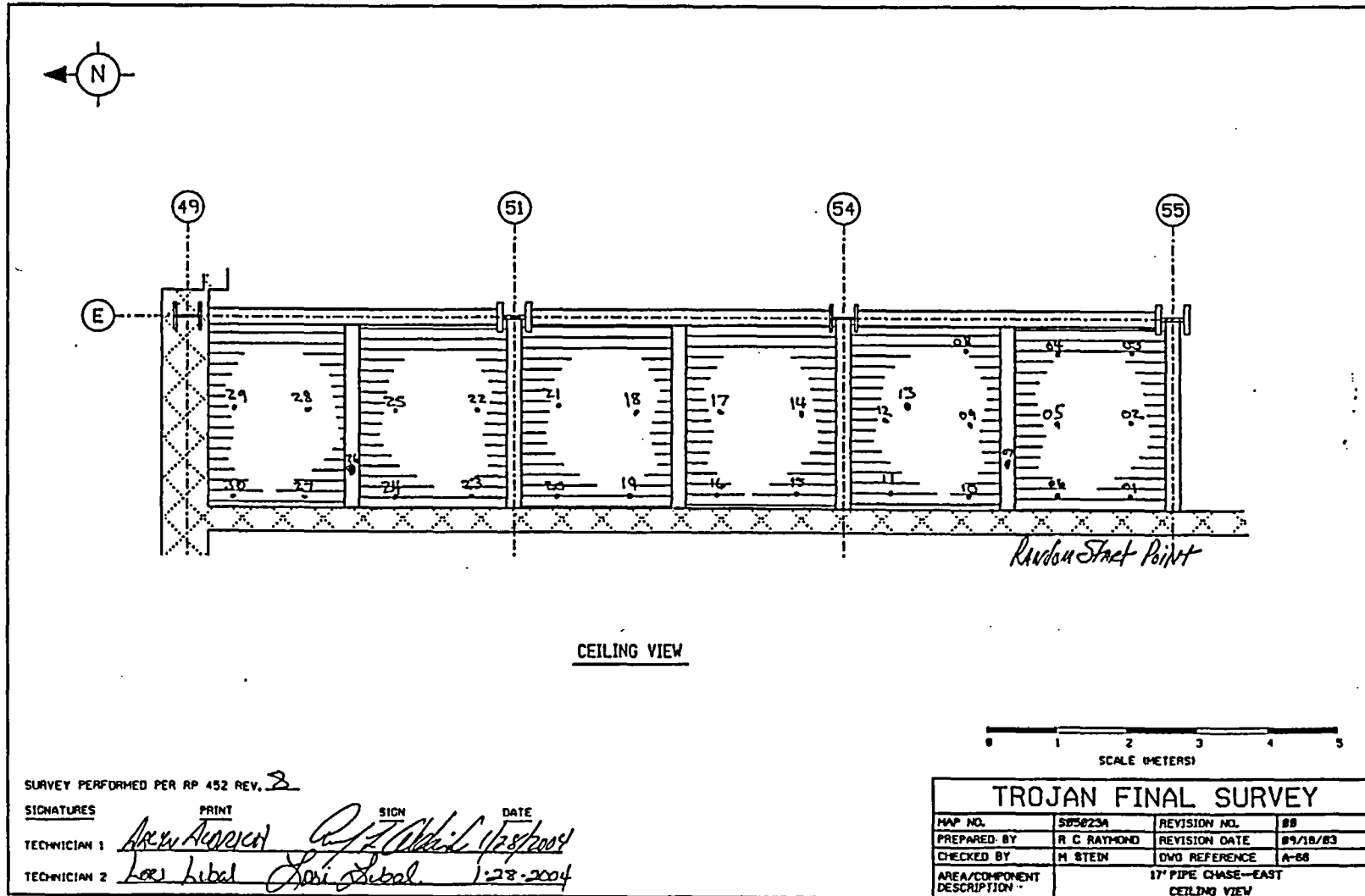
Survey Unit ID Code: S05023A

Survey Unit Name: AB 17' Elevation - East Horizontal Pipe Chase Ceiling

Classification: Class 2

Size (m²): 41

Static Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05023B
 Survey Unit Name: AB 17' Elevation -
 Horizontal Pipe Chase - West

Classification: Class 2
 Size (m²): 40

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|-----------------------|------------|-------------------------|------------|-----|-----|
| 1 | 30 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 6.835e+002
 Maximum Value : 9.380e+002
 Range : 2.545e+002
 Median : 8.088e+002
 Std. Deviation : 6.669e+001
 Mean : 8.006e+002
 95% UCL : 8.213e+002

Measurement Values

| Location | Value | Location | Value |
|----------|------------|----------|------------|
| 000001 | 7.139e+002 | 000018 | 8.240e+002 |
| 000002 | 7.974e+002 | 000019 | 7.937e+002 |
| 000003 | 7.709e+002 | 000020 | 7.443e+002 |
| 000004 | 7.747e+002 | 000021 | 8.354e+002 |
| 000005 | 7.139e+002 | 000022 | 8.620e+002 |
| 000006 | 8.316e+002 | 000023 | 8.392e+002 |
| 000007 | 7.519e+002 | 000024 | 8.468e+002 |
| 000008 | 6.835e+002 | 000025 | 8.544e+002 |
| 000009 | 8.278e+002 | 000026 | 8.202e+002 |
| 000010 | 8.202e+002 | 000027 | 8.810e+002 |
| 000011 | 6.873e+002 | 000028 | 7.557e+002 |
| 000012 | 7.823e+002 | 000029 | 9.000e+002 |
| 000013 | 8.582e+002 | 000030 | 7.861e+002 |
| 000014 | 8.962e+002 | | |
| 000015 | 9.380e+002 | | |
| 000016 | 6.987e+002 | | |
| 000017 | 7.291e+002 | | |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05023B
 Survey Unit Name: AB 17' Elevation –
 Horizontal Pipe Chase – West

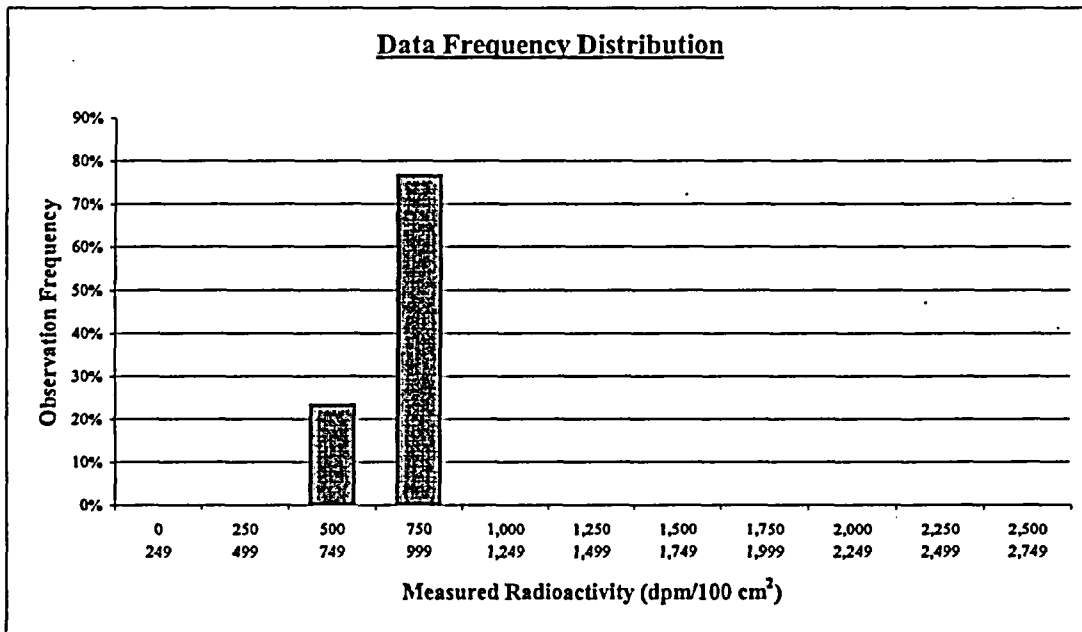
Classification: Class 2
 Size (m²): 40

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | |
|-------------------------|------------------|---------------------|-------------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? |
| Range | 254 | 327 | Pass |
| Median | 0.134 | 0.500 | Pass |
| Mean | 800 | 6,000 | Pass |
| Std Dev | 65 | 1,500 | Pass |

| Statistical Quantities | |
|------------------------|-------|
| Range: | 254 |
| Median: | 809 |
| Mean: | 800 |
| Std Dev: | 65 |
| Minimum: | 684 |
| Maximum: | 938 |
| DCGL: | 7,500 |

All data less than DCGL; Sign statistical test not required.



| Plot Parameters | |
|---------------------|-------|
| # of measurements: | 30 |
| # of intervals: | 11 |
| Interval increment: | 250 |
| Minimum: | 0 |
| Maximum: | 2,749 |

Comment:
None.

| Interval | High End | Low End | Number of Observations | Observation Frequency |
|----------|----------|---------|------------------------|-----------------------|
| 1 | 249 | 0 | 0 | 0% |
| 2 | 499 | 250 | 0 | 0% |
| 3 | 749 | 500 | 7 | 23% |
| 4 | 999 | 750 | 23 | 77% |
| 5 | 1,249 | 1,000 | 0 | 0% |
| 6 | 1,499 | 1,250 | 0 | 0% |
| 7 | 1,749 | 1,500 | 0 | 0% |
| 8 | 1,999 | 1,750 | 0 | 0% |
| 9 | 2,249 | 2,000 | 0 | 0% |
| 10 | 2,499 | 2,250 | 0 | 0% |
| 11 | 2,749 | 2,500 | 0 | 0% |
| Total: | | | 30 | 100% |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05023B
Survey Unit Name: AB 17' Elevation –
Horizontal Pipe Chase – West

Classification: Class 2
Size (m²): 40

Judgmental and Miscellaneous Measurement Data

Measurement Type: Surface Scanning Beta
Measurement Units: dpm/100cm²
Minimum Value: 950

Scan Coverage (%): 35
Investigation Level: 7,500
Maximum Value: 1,533

Measurement Type: Removable Beta
Measurement Units: dpm/100cm²
Minimum Value: 2

Number of Measurements: 30
Investigation Level: 750
Maximum Value: 33

Discussion of Anomalous Measurement Data

Investigation Summary

No investigation required for this survey unit. No anomalous measurement data.

FINAL SURVEY RESULTS SUMMARY

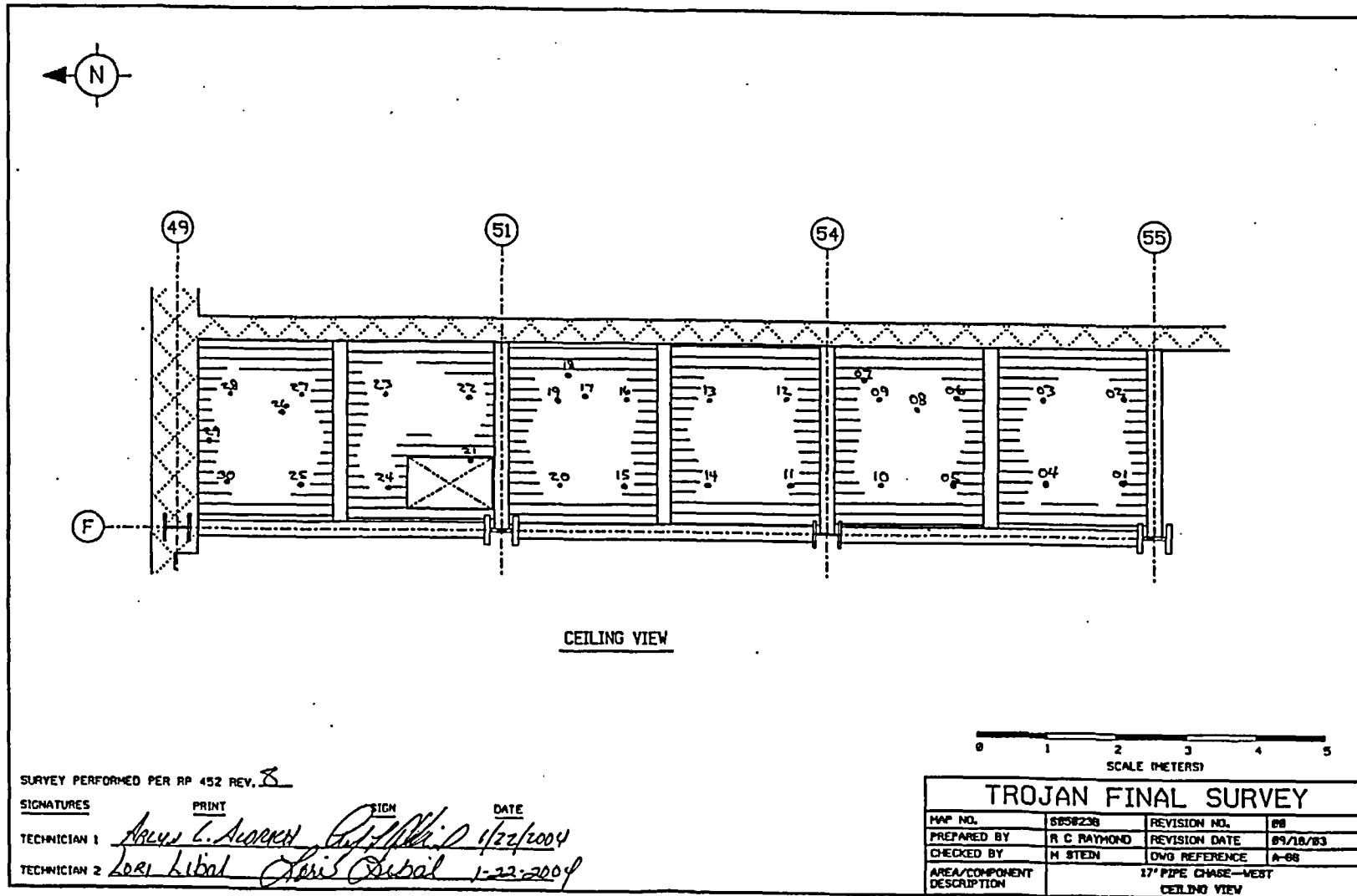
Survey Unit ID Code: S05023B

Survey Unit Name: AB 17' Elevation – Horizontal Pipe Chase – West

Classification: Class 2

Size (m²): 40

Static Measurement Locations Map



SURVEY PERFORMED PER RP 452 REV. 8

| | | | |
|--------------|------------------------|----------------|------------------|
| SIGNATURES | PRINT | SIGN | DATE |
| TECHNICIAN 1 | <i>Arvid L. Aueren</i> | <i>Raymond</i> | <i>1/22/2004</i> |
| TECHNICIAN 2 | <i>Lori Libal</i> | <i>Lori</i> | <i>1-22-2004</i> |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05023F
 Survey Unit Name: AB 5' Elevation -
 "B" RHR Pump Room Ceiling

Classification: Class 2
 Size (m²): 26

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|-----------------------|------------|-------------------------|------------|-----|-----|
| 1 | 30 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 6.120e+002
 Maximum Value : 1.149e+003
 Range : 5.370e+002
 Median : 8.173e+002
 Std. Deviation : 1.044e+002
 Mean : 8.190e+002
 95% UCL : 8.514e+002

Measurement Values

| Location | Value | Location | Value |
|----------|------------|----------|------------|
| 000001 | 8.173e+002 | 000018 | 8.568e+002 |
| 000002 | 1.062e+003 | 000019 | 7.818e+002 |
| 000003 | 8.450e+002 | 000020 | 8.608e+002 |
| 000004 | 7.344e+002 | 000021 | 8.292e+002 |
| 000005 | 6.120e+002 | 000022 | 8.410e+002 |
| 000006 | 8.173e+002 | 000023 | 6.633e+002 |
| 000007 | 7.779e+002 | 000024 | 7.779e+002 |
| 000008 | 7.068e+002 | 000025 | 8.134e+002 |
| 000009 | 7.542e+002 | 000026 | 8.647e+002 |
| 000010 | 7.818e+002 | 000027 | 9.240e+002 |
| 000011 | 7.344e+002 | 000028 | 8.805e+002 |
| 000012 | 7.621e+002 | 000029 | 1.149e+003 |
| 000013 | 7.265e+002 | 000030 | 8.292e+002 |
| 000014 | 9.161e+002 | | |
| 000015 | 8.292e+002 | | |
| 000016 | 7.937e+002 | | |
| 000017 | 8.292e+002 | | |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05023F
 Survey Unit Name: AB 5' Elevation -
 "B" RHR Pump Room Ceiling

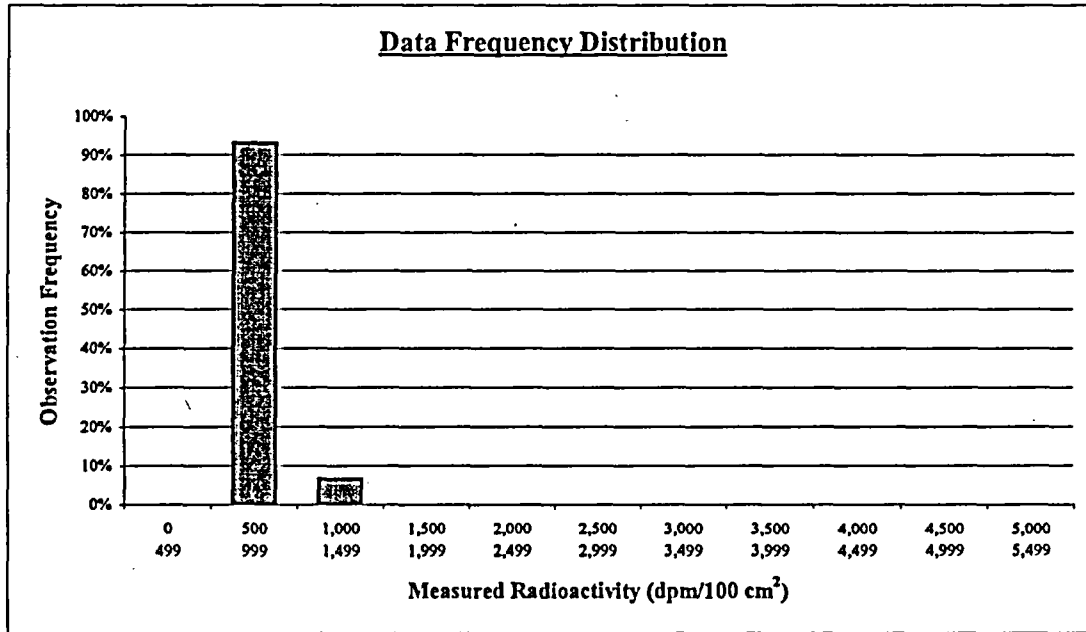
Classification: Class 2
 Size (m²): 26

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | |
|-------------------------|------------------|---------------------|-------------------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? |
| Range | 537 | 522 | See comment below |
| Median | 0.019 | 0.500 | Pass |
| Mean | 819 | 6,000 | Pass |
| Std Dev | 104 | 1,500 | Pass |

| Statistical Quantities | |
|------------------------|-------|
| Range: | 537 |
| Median: | 817 |
| Mean: | 819 |
| Std Dev: | 104 |
| Minimum: | 612 |
| Maximum: | 1,149 |
| DCGL: | 7,500 |

All data less than DCGL; Sign statistical test not required.



| Plot Parameters | |
|---------------------|-------|
| # of measurements: | 30 |
| # of intervals: | 11 |
| Interval increment: | 500 |
| Minimum: | 0 |
| Maximum: | 5,499 |

| Interval | High End | Low End | Number of Observations | Observation Frequency |
|----------|----------|---------|------------------------|-----------------------|
| 1 | 499 | 0 | 0 | 0% |
| 2 | 999 | 500 | 28 | 93% |
| 3 | 1,499 | 1,000 | 2 | 7% |
| 4 | 1,999 | 1,500 | 0 | 0% |
| 5 | 2,499 | 2,000 | 0 | 0% |
| 6 | 2,999 | 2,500 | 0 | 0% |
| 7 | 3,499 | 3,000 | 0 | 0% |
| 8 | 3,999 | 3,500 | 0 | 0% |
| 9 | 4,499 | 4,000 | 0 | 0% |
| 10 | 4,999 | 4,500 | 0 | 0% |
| 11 | 5,499 | 5,000 | 0 | 0% |
| Total: | | | 30 | 100% |

Comment:

Range failure is a test artifact due to two values exceeding 1,000 dpm, while the other 28 values are less than 1,000 dpm. All values are valid and accepted as final survey data.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05023F
Survey Unit Name: AB 5' Elevation -
"B" RHR Pump Room Ceiling

Classification: Class 2
Size (m²): 26

Judgmental and Miscellaneous Measurement Data

Measurement Type: Surface Scanning Beta
Measurement Units: dpm/100cm²
Minimum Value: 950

Scan Coverage (%): 35
Investigation Level: 7,500
Maximum Value: 1,361

Measurement Type: Removable Beta
Measurement Units: dpm/100cm²
Minimum Value: 3

Number of Measurements: 30
Investigation Level: 750
Maximum Value: 18

Discussion of Anomalous Measurement Data

Investigation Summary

No investigation required for this survey unit. No anomalous measurement data.

FINAL SURVEY RESULTS SUMMARY

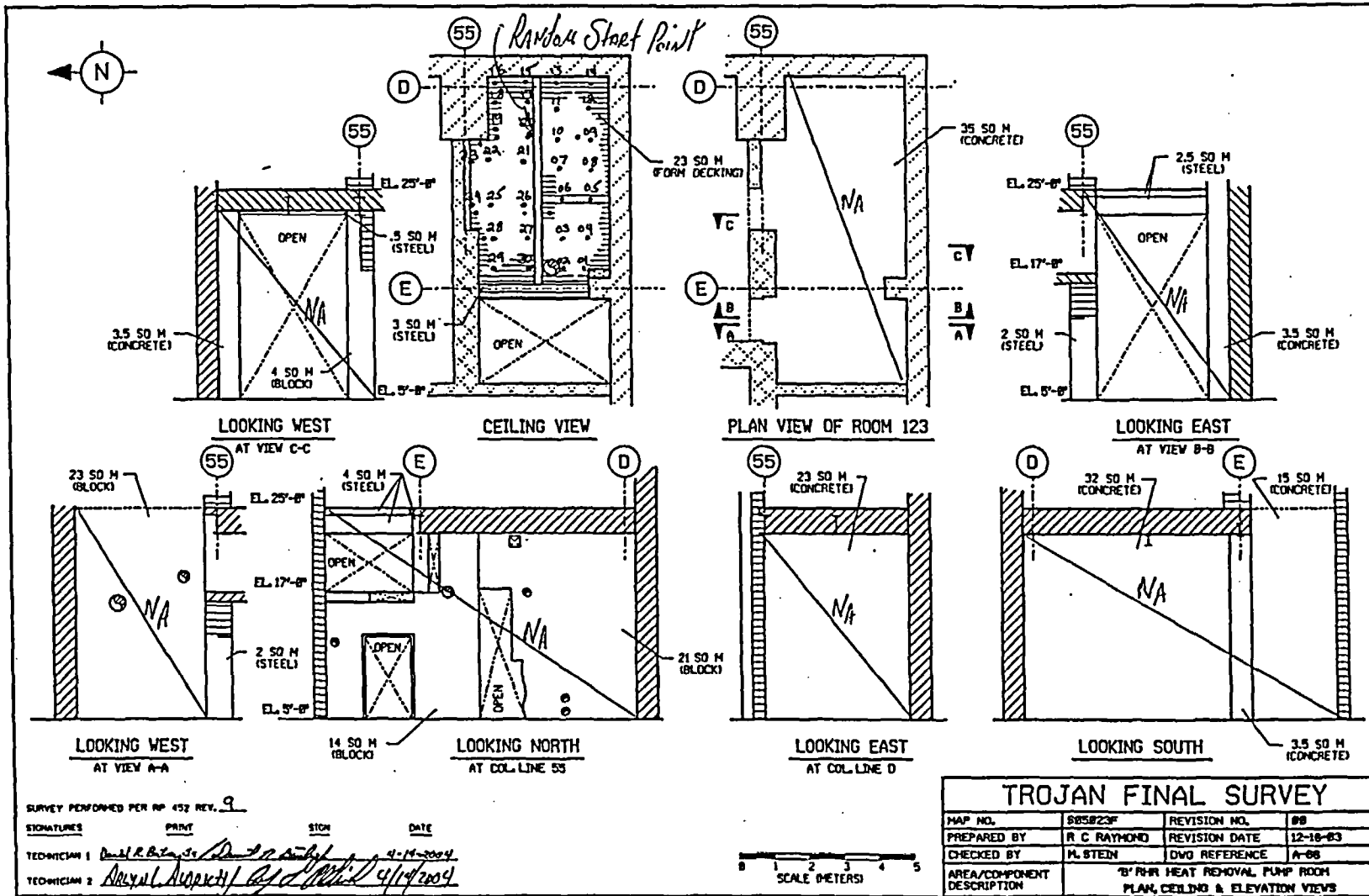
Survey Unit ID Code: S05023F

Survey Unit Name: AB 5' Elevation - "B" RHR Pump Room Ceiling

Classification: Class 2

Size (m²): 26

Static Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05023G
 Survey Unit Name: AB 5' Elevation -
 "A" RHR Pump Room Ceiling

Classification: Class 2
 Size (m²): 28

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|--------------------------|---------------|-------------------------|------------|-----|-----|
| 1 | 30 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 4.659e+002
 Maximum Value : 1.690e+003
 Range : 1.224e+003
 Median : 7.048e+002
 Std. Deviation : 2.178e+002
 Mean : 7.073e+002
 95% UCL : 7.748e+002

Measurement Values

| Location | Value | Location | Value |
|----------|------------|----------|------------|
| 000001 | 5.804e+002 | 000018 | 7.818e+002 |
| 000002 | 7.423e+002 | 000019 | 8.726e+002 |
| 000003 | 7.542e+002 | 000020 | 5.765e+002 |
| 000004 | 7.028e+002 | 000021 | 5.173e+002 |
| 000005 | 4.778e+002 | 000022 | 7.186e+002 |
| 000006 | 5.409e+002 | 000023 | 7.423e+002 |
| 000007 | 7.344e+002 | 000024 | 7.779e+002 |
| 000008 | 1.690e+003 | 000025 | 8.766e+002 |
| 000009 | 8.805e+002 | 000026 | 6.041e+002 |
| 000010 | 7.423e+002 | 000027 | 7.068e+002 |
| 000011 | 5.883e+002 | 000028 | 5.844e+002 |
| 000012 | 7.305e+002 | 000029 | 5.923e+002 |
| 000013 | 4.659e+002 | 000030 | 6.989e+002 |
| 000014 | 5.212e+002 | | |
| 000015 | 6.673e+002 | | |
| 000016 | 7.344e+002 | | |
| 000017 | 6.160e+002 | | |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05023G
 Survey Unit Name: AB 5' Elevation -
 "A" RHR Pump Room Ceiling

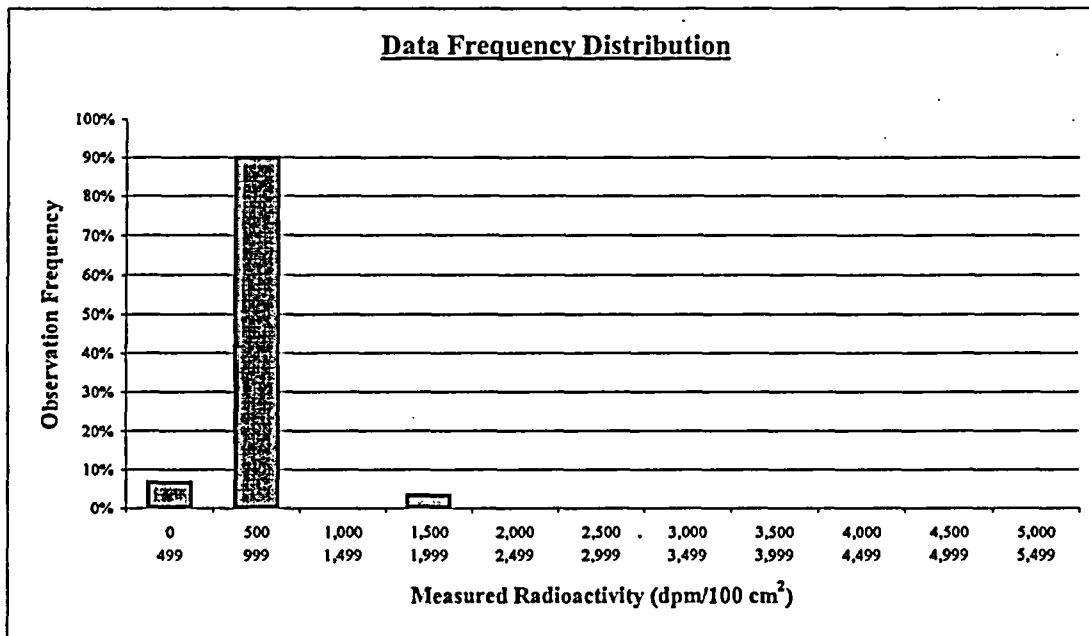
Classification: Class 2
 Size (m²): 28

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | |
|-------------------------|------------------|---------------------|-------------------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? |
| Range | 1,224 | 1,089 | See comment below |
| Median | 0.011 | 0.500 | Pass |
| Mean | 707 | 6,000 | Pass |
| Std Dev | 218 | 1,500 | Pass |

| Statistical Quantities | |
|------------------------|-------|
| Range: | 1,224 |
| Median: | 705 |
| Mean: | 707 |
| Std Dev: | 218 |
| Minimum: | 466 |
| Maximum: | 1,690 |
| DCGL: | 7,500 |

All data less than DCGL; Sign statistical test not required.



| Plot Parameters | |
|---------------------|-------|
| # of measurements: | 30 |
| # of intervals: | 11 |
| Interval increment: | 500 |
| Minimum: | 0 |
| Maximum: | 5,499 |

| Interval | High End | Low End | Number of Observations | Observation Frequency |
|----------|----------|---------|------------------------|-----------------------|
| 1 | 499 | 0 | 2 | 7% |
| 2 | 999 | 500 | 27 | 90% |
| 3 | 1,499 | 1,000 | 0 | 0% |
| 4 | 1,999 | 1,500 | 1 | 3% |
| 5 | 2,499 | 2,000 | 0 | 0% |
| 6 | 2,999 | 2,500 | 0 | 0% |
| 7 | 3,499 | 3,000 | 0 | 0% |
| 8 | 3,999 | 3,500 | 0 | 0% |
| 9 | 4,499 | 4,000 | 0 | 0% |
| 10 | 4,999 | 4,500 | 0 | 0% |
| 11 | 5,499 | 5,000 | 0 | 0% |
| Total: | | | 30 | 100% |

Comment:
 Range failure is a test artifact due to a single value exceeding 1,500 dpm while other 29 values are less than 1,000 dpm. All values are valid and accepted as final survey data.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05023G
Survey Unit Name: AB 5' Elevation –
“A” RHR Pump Room Ceiling

Classification: Class 2
Size (m²): 28

Judgmental and Miscellaneous Measurement Data

Measurement Type: Surface Scanning Beta
Measurement Units: dpm/100cm²
Minimum Value: 867

Scan Coverage (%): 35
Investigation Level: 7,500
Maximum Value: 1,135

Measurement Type: Removable Beta
Measurement Units: dpm/100cm²
Minimum Value: 2

Number of Measurements: 30
Investigation Level: 750
Maximum Value: 17

Discussion of Anomalous Measurement Data

Investigation Summary

No investigation required for this survey unit. No anomalous measurement data.

FINAL SURVEY RESULTS SUMMARY

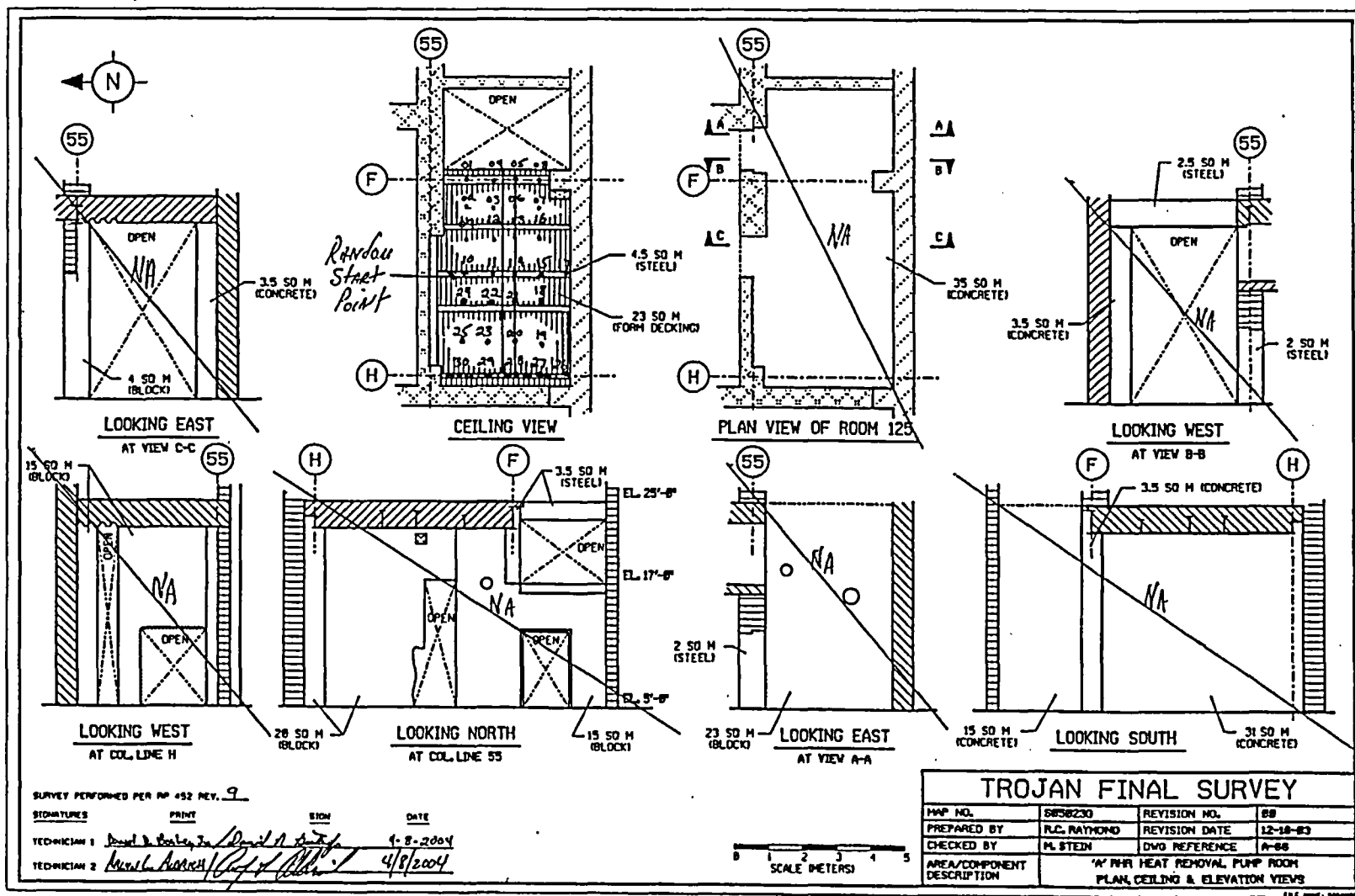
Survey Unit ID Code: S05023G

Survey Unit Name: AB 5' Elevation - "A" RHR Pump Room Ceiling

Classification: Class 2

Size (m²): 28

Static Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05023J

Classification: Class 2

Survey Unit Name: AB 5' Elevation -

Size (m²): 51

Waste Receiver and Drain Pump Rooms Ceiling

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|-----------------------|------------|-------------------------|------------|-----|-----|
| 1 | 32 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 4.253e+002
 Maximum Value : 8.098e+002
 Range : 3.845e+002
 Median : 6.342e+002
 Std. Deviation : 1.034e+002
 Mean : 6.133e+002
 95% UCL : 6.443e+002

Measurement Values

| Location | Value | Location | Value |
|----------|------------|----------|------------|
| 000001 | 7.127e+002 | 000018 | 5.013e+002 |
| 000002 | 7.329e+002 | 000019 | 6.797e+002 |
| 000003 | 5.143e+002 | 000020 | 6.266e+002 |
| 000004 | 5.224e+002 | 000021 | 6.342e+002 |
| 000005 | 6.357e+002 | 000022 | 6.456e+002 |
| 000006 | 8.098e+002 | 000023 | 6.911e+002 |
| 000007 | 6.924e+002 | 000024 | 7.215e+002 |
| 000008 | 6.236e+002 | 000025 | 7.253e+002 |
| 000009 | 4.738e+002 | 000026 | 6.190e+002 |
| 000010 | 4.819e+002 | 000027 | 5.013e+002 |
| 000011 | 6.681e+002 | 000028 | 5.013e+002 |
| 000012 | 7.856e+002 | 000029 | 5.886e+002 |
| 000013 | 4.291e+002 | 000030 | 6.911e+002 |
| 000014 | 4.823e+002 | 000031 | 6.342e+002 |
| 000015 | 4.253e+002 | 000032 | 5.620e+002 |
| 000016 | 6.607e+002 | | |
| 000017 | 6.531e+002 | | |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05023J

Classification: Class 2

Survey Unit Name: AB 5' Elevation –

Size (m²): 51

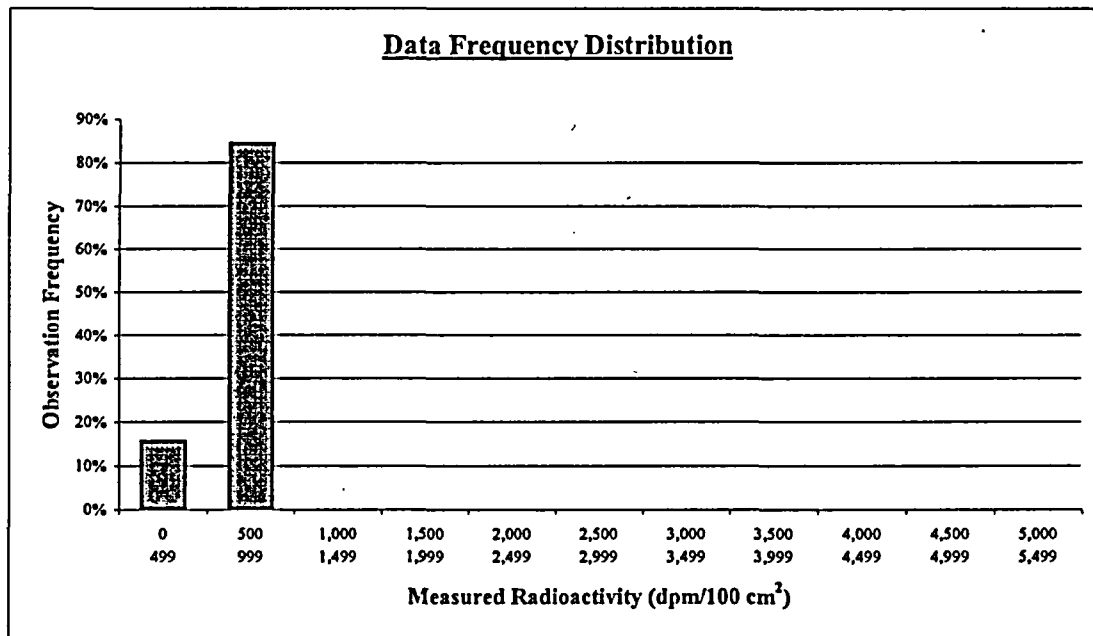
Waste Receiver and Drain Pump Rooms Ceiling

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | |
|-------------------------|------------------|---------------------|-------------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? |
| Range | 385 | 517 | Pass |
| Median | 0.200 | 0.500 | Pass |
| Mean | 613 | 6,000 | Pass |
| Std Dev | 103 | 1,500 | Pass |

| Statistical Quantities | |
|------------------------|-------|
| Range: | 385 |
| Median: | 634 |
| Mean: | 613 |
| Std Dev: | 103 |
| Minimum: | 425 |
| Maximum: | 810 |
| DCGL: | 7,500 |

All data less than DCGL; Sign statistical test not required.



| Plot Parameters | |
|---------------------|-------|
| # of measurements: | 32 |
| # of intervals: | 11 |
| Interval increment: | 500 |
| Minimum: | 0 |
| Maximum: | 5,499 |

Comment:
None.

| Interval | High End | Low End | Number of Observations | Observation Frequency |
|----------|----------|---------|------------------------|-----------------------|
| 1 | 499 | 0 | 5 | 16% |
| 2 | 999 | 500 | 27 | 84% |
| 3 | 1,499 | 1,000 | 0 | 0% |
| 4 | 1,999 | 1,500 | 0 | 0% |
| 5 | 2,499 | 2,000 | 0 | 0% |
| 6 | 2,999 | 2,500 | 0 | 0% |
| 7 | 3,499 | 3,000 | 0 | 0% |
| 8 | 3,999 | 3,500 | 0 | 0% |
| 9 | 4,499 | 4,000 | 0 | 0% |
| 10 | 4,999 | 4,500 | 0 | 0% |
| 11 | 5,499 | 5,000 | 0 | 0% |
| Total: | | | 32 | 100% |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05023J **Classification:** Class 2
Survey Unit Name: AB 5' Elevation – **Size (m²):** 51
Waste Receiver and Drain Pump Rooms Ceiling

Judgmental and Miscellaneous Measurement Data

Measurement Type: Surface Scanning Beta **Scan Coverage (%):** 35
Measurement Units: dpm/100cm² **Investigation Level:** 7,500
Minimum Value: 845 **Maximum Value:** 1,549

Measurement Type: Removable Beta **Number of Measurements:** 32
Measurement Units: dpm/100cm² **Investigation Level:** 750
Minimum Value: 3 **Maximum Value:** 20

Discussion of Anomalous Measurement Data

Investigation Summary

No investigation required for this survey unit. No anomalous measurement data.

FINAL SURVEY RESULTS SUMMARY

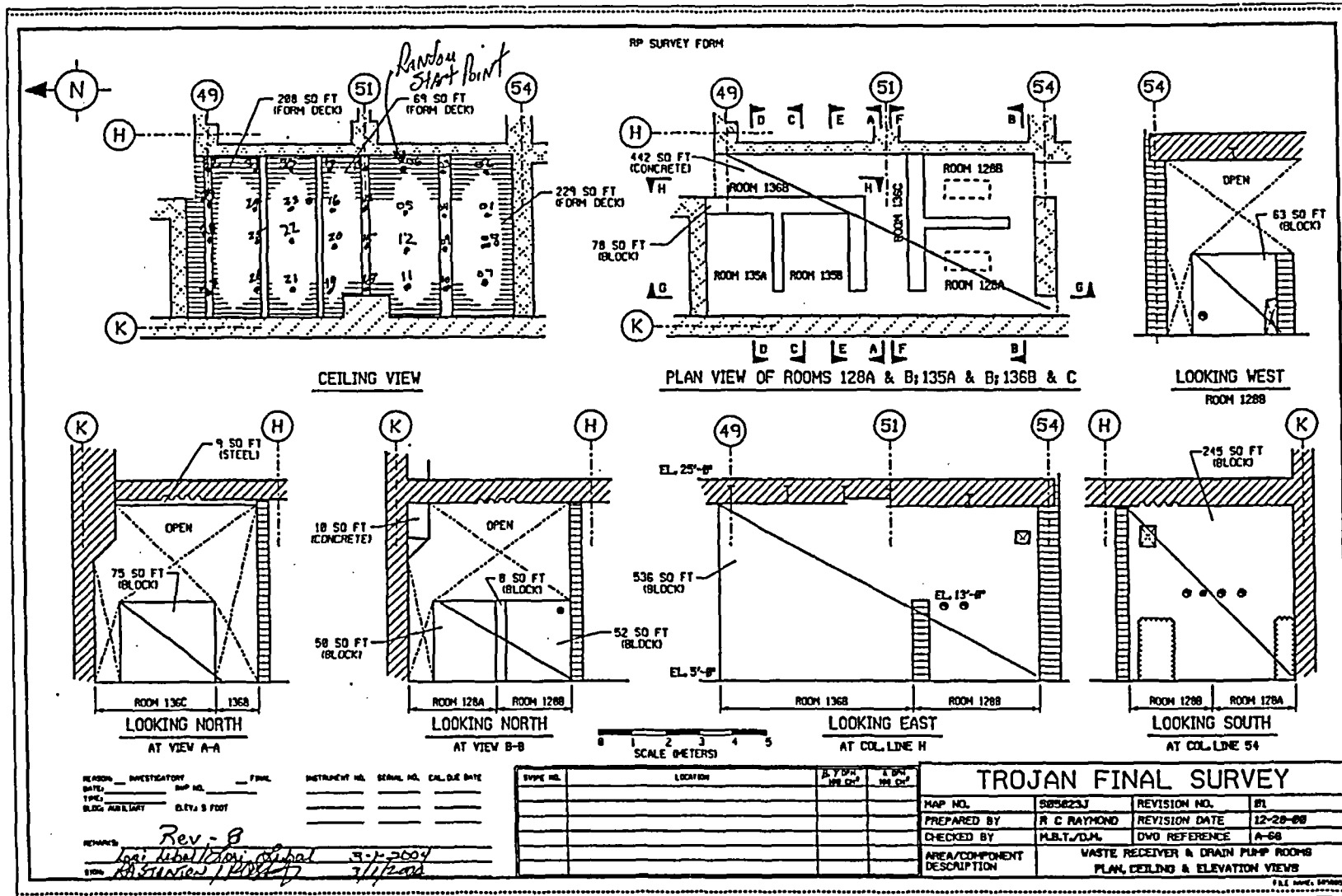
Survey Unit ID Code: S05023J

Survey Unit Name: AB 5' Elevation - Waste Receiver and Drain Pump Rooms Ceiling

Classification: Class 2

Size (m²): 51

Static Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05023K
 Survey Unit Name: AB 5' Elevation -
 Drain Tank Room Ceiling

Classification: Class 2
 Size (m²): 13

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|--------------------------|---------------|-------------------------|------------|-----|-----|
| 1 | 30 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 5.441e+002
 Maximum Value : 2.933e+003
 Range : 2.389e+003
 Median : 8.864e+002
 Std. Deviation : 5.848e+002
 Mean : 1.082e+003
 95% UCL : 1.263e+003

Measurement Values

| Location | Value | Location | Value |
|----------|------------|----------|------------|
| 000001 | 5.441e+002 | 000018 | 7.987e+002 |
| 000002 | 7.636e+002 | 000019 | 1.150e+003 |
| 000003 | 7.460e+002 | 000020 | 8.601e+002 |
| 000004 | 7.285e+002 | 000021 | 8.601e+002 |
| 000005 | 7.460e+002 | 000022 | 8.864e+002 |
| 000006 | 9.918e+002 | 000023 | 8.864e+002 |
| 000007 | 1.036e+003 | 000024 | 8.864e+002 |
| 000008 | 9.215e+002 | 000025 | 9.040e+002 |
| 000009 | 7.899e+002 | 000026 | 9.303e+002 |
| 000010 | 9.040e+002 | 000027 | 2.933e+003 |
| 000011 | 1.071e+003 | 000028 | 1.956e+003 |
| 000012 | 9.918e+002 | 000029 | 2.933e+003 |
| 000013 | 9.654e+002 | 000030 | 1.956e+003 |
| 000014 | 7.372e+002 | | |
| 000015 | 8.777e+002 | | |
| 000016 | 8.864e+002 | | |
| 000017 | 8.162e+002 | | |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05023K
 Survey Unit Name: AB 5' Elevation –
 Drain Tank Room Ceiling

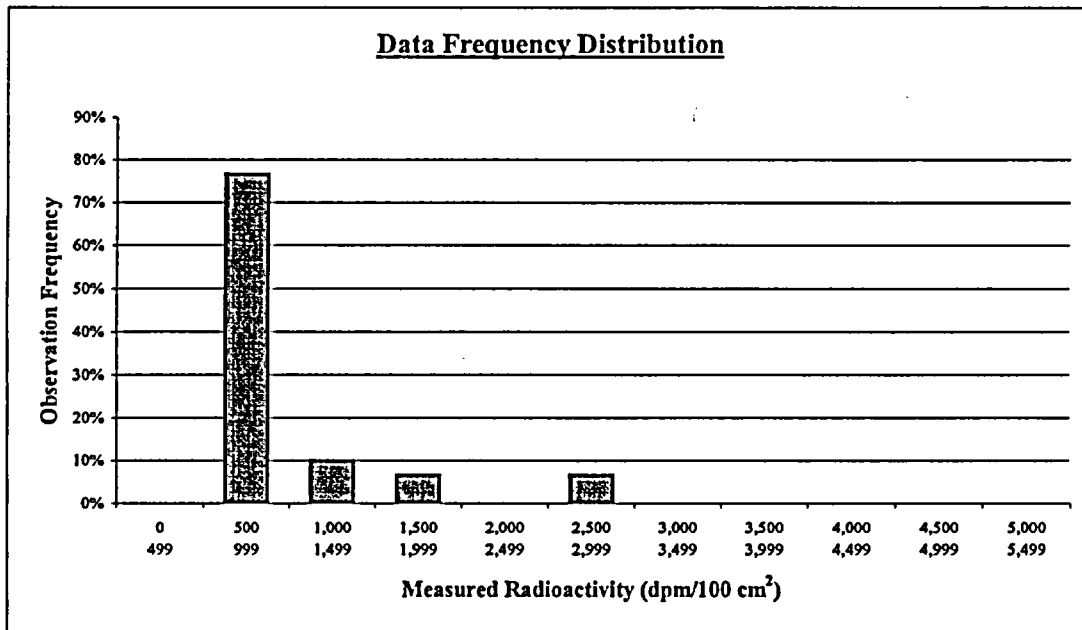
Classification: Class 2
 Size (m²): 13

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | |
|-------------------------|------------------|---------------------|-------------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? |
| Range | 2,389 | 2,924 | Pass |
| Median | 0.334 | 0.500 | Pass |
| Mean | 1,082 | 6,000 | Pass |
| Std Dev | 585 | 1,500 | Pass |

All data less than DCGL; Sign statistical test not required.

| Statistical Quantities | |
|------------------------|-------|
| Range: | 2,389 |
| Median: | 886 |
| Mean: | 1,082 |
| Std Dev: | 585 |
| Minimum: | 544 |
| Maximum: | 2,933 |
| DCGL: | 7,500 |



| Plot Parameters | |
|---------------------|-------|
| # of measurements: | 30 |
| # of intervals: | 11 |
| Interval increment: | 500 |
| Minimum: | 0 |
| Maximum: | 5,499 |

| Interval | High End | Low End | Number of Observations | Observation Frequency |
|----------|----------|---------|------------------------|-----------------------|
| 1 | 499 | 0 | 0 | 0% |
| 2 | 999 | 500 | 23 | 77% |
| 3 | 1,499 | 1,000 | 3 | 10% |
| 4 | 1,999 | 1,500 | 2 | 7% |
| 5 | 2,499 | 2,000 | 0 | 0% |
| 6 | 2,999 | 2,500 | 2 | 7% |
| 7 | 3,499 | 3,000 | 0 | 0% |
| 8 | 3,999 | 3,500 | 0 | 0% |
| 9 | 4,499 | 4,000 | 0 | 0% |
| 10 | 4,999 | 4,500 | 0 | 0% |
| 11 | 5,499 | 5,000 | 0 | 0% |
| Total: | | | 30 | 100% |

Comment:
None.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05023K
Survey Unit Name: AB 5' Elevation –
Drain Tank Room Ceiling

Classification: Class 2
Size (m²): 13

Judgmental and Miscellaneous Measurement Data

Measurement Type: Surface Scanning Beta
Measurement Units: dpm/100cm²
Minimum Value: 1,175

Scan Coverage (%): 35
Investigation Level: 7,500
Maximum Value: 5,896

Measurement Type: Removable Beta
Measurement Units: dpm/100cm²
Minimum Value: 2

Number of Measurements: 30
Investigation Level: 750
Maximum Value: 18

Discussion of Anomalous Measurement Data

Investigation Summary

No investigation required for this survey unit. No anomalous measurement data.

FINAL SURVEY RESULTS SUMMARY

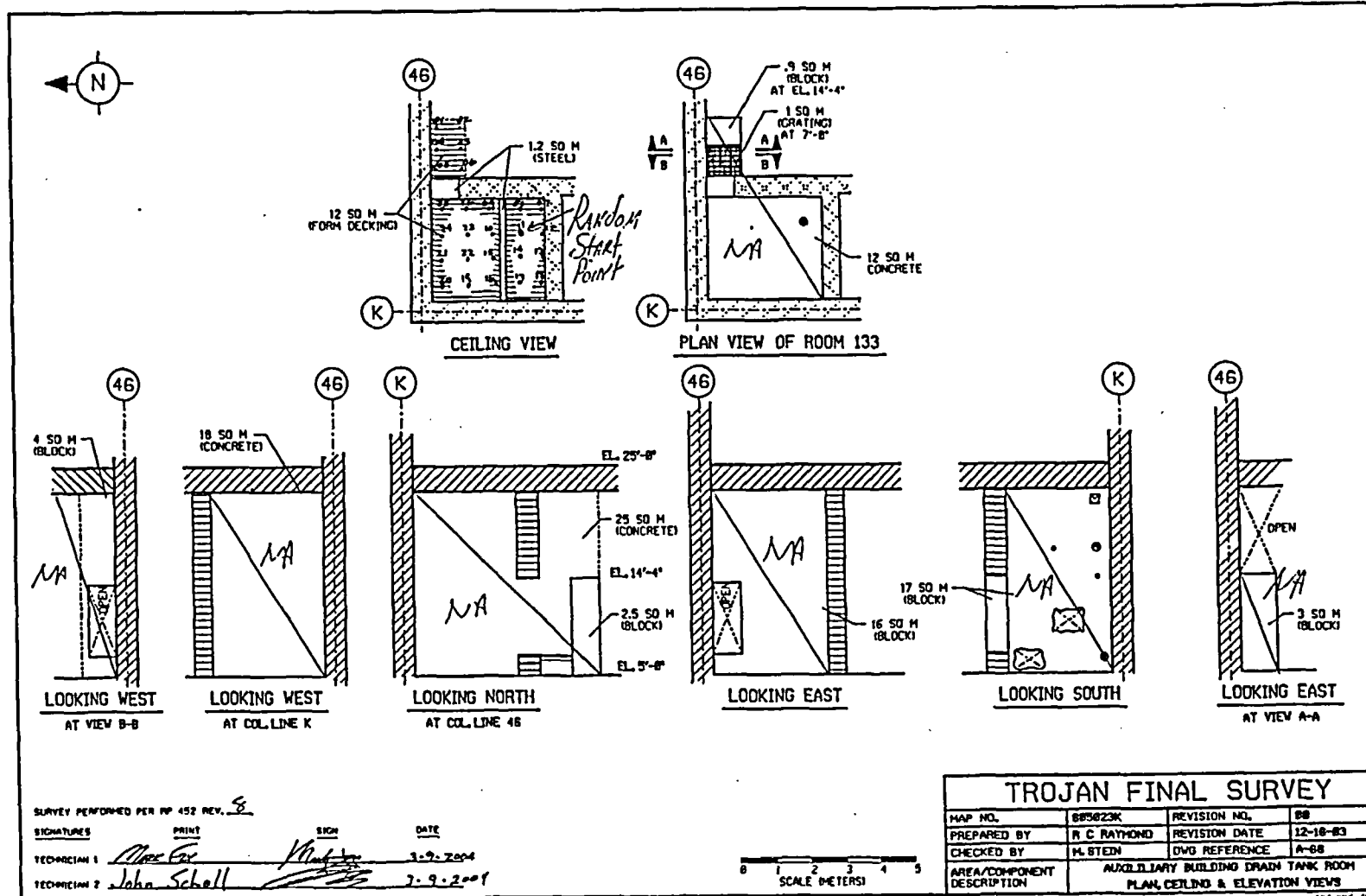
Survey Unit ID Code: S05023K

Survey Unit Name: AB 5' Elevation - Drain Tank Room Ceiling

Classification: Class 2

Size (m²): 13

Static Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05023S
 Survey Unit Name: AB 5' Elevation -
 East RHR Vertical Pipe Chase

Classification: Class 1
 Size (m²): 139

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|--------------------------|---------------|-------------------------|------------|-----|-----|
| 1 | 36 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 6.733e+002
 Maximum Value : 3.275e+003
 Range : 2.602e+003
 Median : 9.235e+002
 Std. Deviation : 5.588e+002
 Mean : 1.231e+003
 95% UCL : 1.388e+003

Measurement Values

| Location | Value | Location | Value | Location | Value |
|----------|------------|----------|------------|----------|------------|
| 000001 | 1.625e+003 | 000018 | 7.259e+002 | 000035 | 7.485e+002 |
| 000002 | 1.937e+003 | 000019 | 8.501e+002 | 000036 | 8.839e+002 |
| 000003 | 1.600e+003 | 000020 | 8.576e+002 | | |
| 000004 | 1.894e+003 | 000021 | 8.162e+002 | | |
| 000005 | 1.744e+003 | 000022 | 8.162e+002 | | |
| 000006 | 1.381e+003 | 000023 | 8.313e+002 | | |
| 000007 | 1.537e+003 | 000024 | 8.463e+002 | | |
| 000008 | 1.356e+003 | 000025 | 8.350e+002 | | |
| 000009 | 1.281e+003 | 000026 | 8.501e+002 | | |
| 000010 | 1.512e+003 | 000027 | 8.839e+002 | | |
| 000011 | 1.469e+003 | 000028 | 7.899e+002 | | |
| 000012 | 1.862e+003 | 000029 | 1.061e+003 | | |
| 000013 | 3.275e+003 | 000030 | 9.479e+002 | | |
| 000014 | 2.362e+003 | 000031 | 8.990e+002 | | |
| 000015 | 1.600e+003 | 000032 | 8.914e+002 | | |
| 000016 | 6.733e+002 | 000033 | 9.667e+002 | | |
| 000017 | 8.576e+002 | 000034 | 8.350e+002 | | |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05023S
 Survey Unit Name: AB 5' Elevation –
 East RHR Vertical Pipe Chase

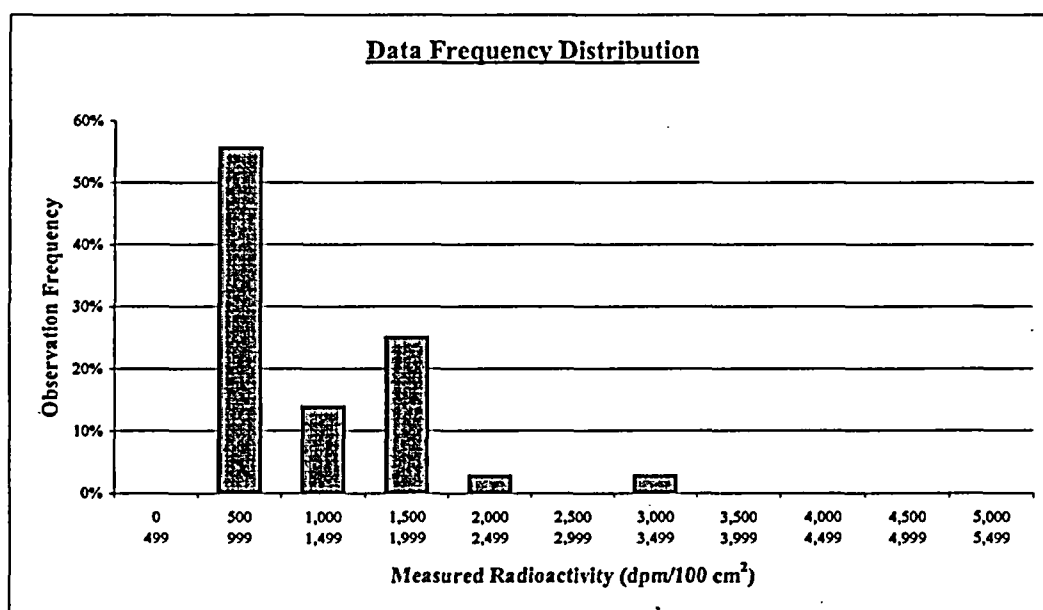
Classification: Class 1
 Size (m²): 139

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | |
|-------------------------|------------------|---------------------|-------------------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? |
| Range | 2,602 | 2,794 | Pass |
| Median | 0.550 | 0.500 | See comment below |
| Mean | 1,231 | 6,000 | Pass |
| Std Dev | 559 | 1,500 | Pass |

| Statistical Quantities | |
|------------------------|-------|
| Range: | 2,602 |
| Median: | 924 |
| Mean: | 1,231 |
| Std Dev: | 559 |
| Minimum: | 673 |
| Maximum: | 3,275 |
| DCGL: | 7,500 |

All data less than DCGL; Sign statistical test not required.



| Plot Parameters | Interval | High End | Low End | Number of Observations | Observation Frequency | |
|---------------------|----------|----------|---------|------------------------|-----------------------|-----|
| # of measurements: | 36 | 1 | 499 | 0 | 0% | |
| # of intervals: | 11 | 2 | 999 | 500 | 56% | |
| Interval increment: | 500 | 3 | 1,499 | 1,000 | 5 | 14% |
| Minimum: | 0 | 4 | 1,999 | 1,500 | 9 | 25% |
| Maximum: | 5,499 | 5 | 2,499 | 2,000 | 1 | 3% |
| | | 6 | 2,999 | 2,500 | 0 | 0% |
| | | 7 | 3,499 | 3,000 | 1 | 3% |
| | | 8 | 3,999 | 3,500 | 0 | 0% |
| | | 9 | 4,499 | 4,000 | 0 | 0% |
| | | 10 | 4,999 | 4,500 | 0 | 0% |
| | | 11 | 5,499 | 5,000 | 0 | 0% |
| | | Total: | | 36 | 100% | |

Comment:

The data set contains values from both smooth and scabbled concrete surfaces, resulting in an expected bimodal distribution, due to different detector efficiency factors for the 2 geometries.

The test failure does not represent an invalid data set.

This statistical comparison is not meaningful for an expected bimodal distribution. All measurement values are valid and accepted.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05023S
Survey Unit Name: AB 5' Elevation –
East RHR Vertical Pipe Chase

Classification: Class 1
Size (m²): 139

Judgmental and Miscellaneous Measurement Data

Measurement Type: Surface Scanning Beta
Measurement Units: dpm/100cm²
Minimum Value: 1,006

Scan Coverage (%): 100
Investigation Level: 7,500
Maximum Value: 20,710

Measurement Type: Removable Beta
Measurement Units: dpm/100cm²
Minimum Value: 5

Number of Measurements: 36
Investigation Level: 750
Maximum Value: 25

Discussion of Anomalous Measurement Data

Investigation Summary

Reason for Investigation: Twelve scan measurements exceeded the investigation level.

Elevated Measurement Comparison (EMC):

| | |
|---|------------------------|
| DCGL (Investigation Level): | 7,500 |
| Measurement Units: | dpm/100cm ² |
| Maximum Value: | 23,680 |
| Size of Area Exceeding DCGL (m²): | 0.33 |
| Size of Survey Unit (m²): | 139 |
| Survey Unit Area >DCGL (%): | 0.24 |
| EMC Value: | 36,750 |

Action Taken: Corrected measurement values for scan locations as per guidance in memo FS-018-03; used a similar method for measurements obtained with a 43-68 gas flow proportional detector. Replaced original scan results in SDMS with the corrected results. Applied EMC data processing to scan locations 007, 008, 013, 034, 084, & 090 that remain elevated.

Basis for Action Taken: Technical basis memorandum FS-018-03 provides guidance for correcting SDMS determined scan results for locations that exceed the investigation level by subtracting instrument background from the field results

FINAL SURVEY RESULTS SUMMARY

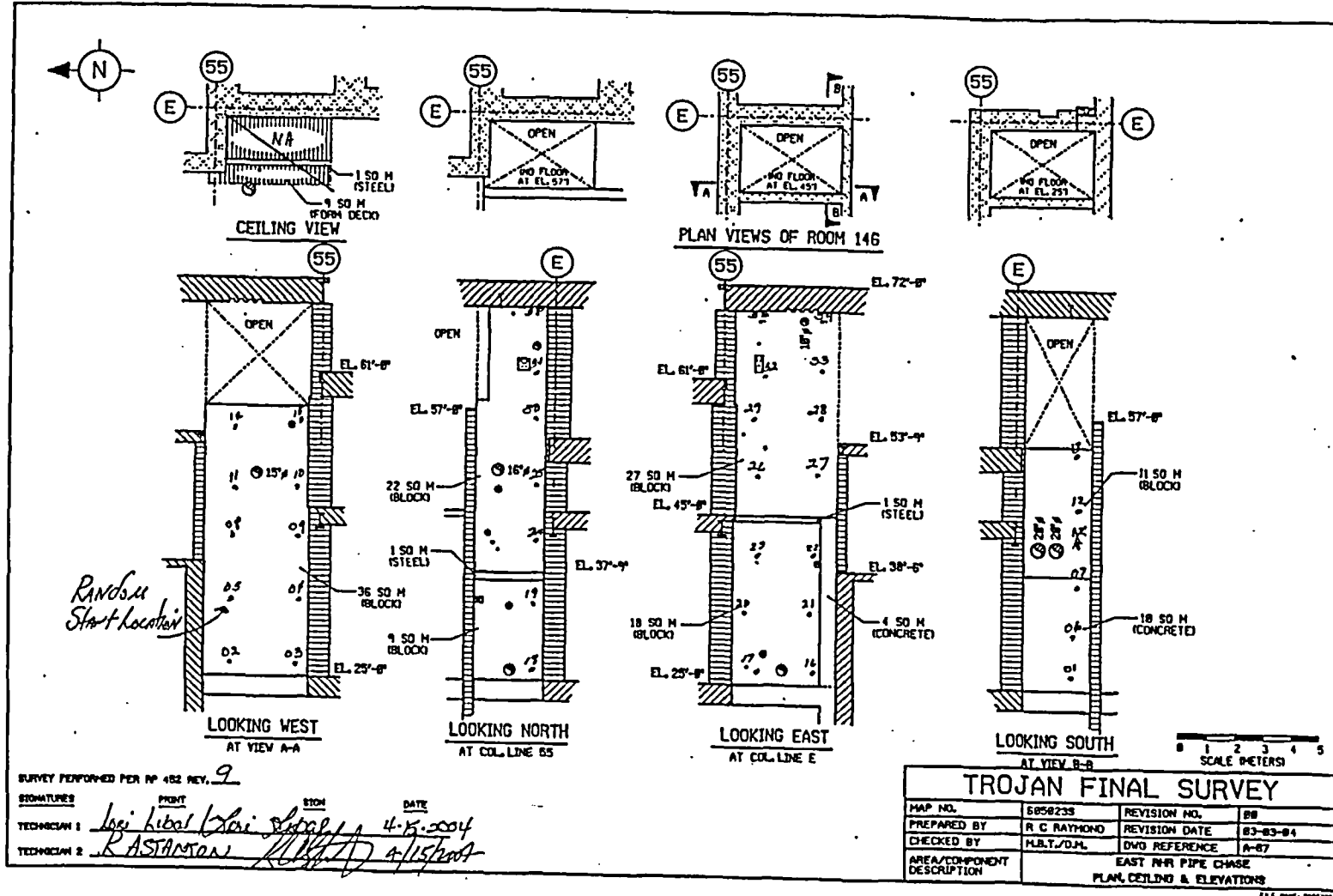
Survey Unit ID Code: S05023S

Survey Unit Name: AB 5' Elevation - East RHR Vertical Pipe Chase

Classification: Class 1

Size (m²): 139

Static Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05023T
 Survey Unit Name: AB 5' Elevation -
 West RHR Vertical Pipe Chase

Classification: Class 1
 Size (m²): 150

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|--------------------------|---------------|-------------------------|------------|-----|-----|
| 1 | 33 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 6.018e+002
 Maximum Value : 2.024e+003
 Range : 1.422e+003
 Median : 8.764e+002
 Std. Deviation : 2.798e+002
 Mean : 9.342e+002
 95% UCL : 1.017e+003

Measurement Values

| Location | Value | Location | Value |
|----------|------------|----------|------------|
| 000001 | 7.937e+002 | 000018 | 1.245e+003 |
| 000002 | 7.410e+002 | 000019 | 1.463e+003 |
| 000003 | 2.024e+003 | 000020 | 8.914e+002 |
| 000004 | 1.004e+003 | 000021 | 9.065e+002 |
| 000005 | 7.448e+002 | 000022 | 8.576e+002 |
| 000006 | 7.598e+002 | 000023 | 8.425e+002 |
| 000007 | 7.974e+002 | 000024 | 8.990e+002 |
| 000008 | 6.658e+002 | 000025 | 6.093e+002 |
| 000009 | 9.479e+002 | 000026 | 6.018e+002 |
| 000010 | 1.072e+003 | 000027 | 7.937e+002 |
| 000011 | 8.764e+002 | 000028 | 8.200e+002 |
| 000012 | 1.110e+003 | 000029 | 8.764e+002 |
| 000013 | 1.467e+003 | 000030 | 8.313e+002 |
| 000014 | 8.275e+002 | 000031 | 9.291e+002 |
| 000015 | 8.877e+002 | 000032 | 7.598e+002 |
| 000016 | 1.121e+003 | 000033 | 7.861e+002 |
| 000017 | 8.764e+002 | | |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05023T
 Survey Unit Name: AB 5' Elevation -
 West RHR Vertical Pipe Chase

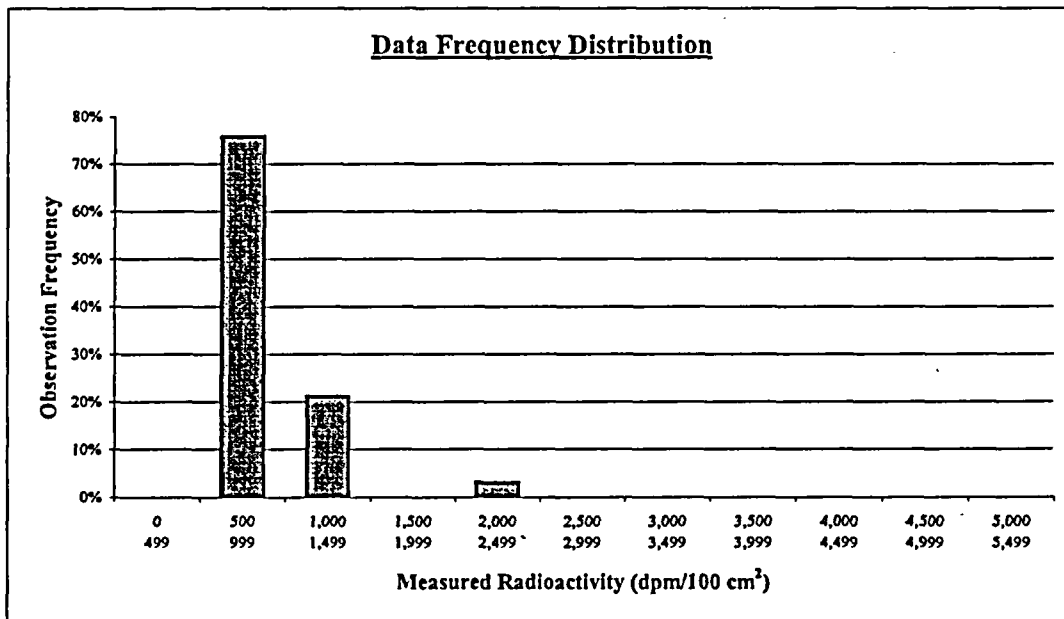
Classification: Class 1
 Size (m²): 150

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | |
|-------------------------|------------------|---------------------|-------------------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? |
| Range | 1,422 | 1,399 | See comment below |
| Median | 0.208 | 0.500 | Pass |
| Mean | 934 | 6,000 | Pass |
| Std Dev | 280 | 1,500 | Pass |

| Statistical Quantities | |
|------------------------|-------|
| Range: | 1,422 |
| Median: | 876 |
| Mean: | 934 |
| Std Dev: | 280 |
| Minimum: | 602 |
| Maximum: | 2,024 |
| DCGL: | 7,500 |

All data less than DCGL; Sign statistical test not required.



| Plot Parameters | |
|---------------------|-------|
| # of measurements: | 33 |
| # of intervals: | 11 |
| Interval increment: | 500 |
| Minimum: | 0 |
| Maximum: | 5,499 |

| Interval | High End | Low End | Number of Observations | Observation Frequency |
|----------|----------|---------|------------------------|-----------------------|
| 1 | 499 | 0 | 0 | 0% |
| 2 | 999 | 500 | 25 | 76% |
| 3 | 1,499 | 1,000 | 7 | 21% |
| 4 | 1,999 | 1,500 | 0 | 0% |
| 5 | 2,499 | 2,000 | 1 | 3% |
| 6 | 2,999 | 2,500 | 0 | 0% |
| 7 | 3,499 | 3,000 | 0 | 0% |
| 8 | 3,999 | 3,500 | 0 | 0% |
| 9 | 4,499 | 4,000 | 0 | 0% |
| 10 | 4,999 | 4,500 | 0 | 0% |
| 11 | 5,499 | 5,000 | 0 | 0% |
| Total: | | | 33 | 100% |

Comment:

Range failure is a test artifact only, due to one measurement value exceeding 2000 dpm, with the other 32 values less than 1500 dpm, and a relatively small standard deviation for the data set. All measurement values are valid and accepted.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05023T
Survey Unit Name: AB 5' Elevation –
 West RHR Vertical Pipe Chase

Classification: Class 1
Size (m²): 150

Judgmental and Miscellaneous Measurement Data

Measurement Type: Surface Scanning Beta
Measurement Units: dpm/100cm²
Minimum Value: 942

Scan Coverage (%): 100
Investigation Level: 7,500
Maximum Value: 14,530

Measurement Type: Removable Beta
Measurement Units: dpm/100cm²
Minimum Value: 5

Number of Measurements: 33
Investigation Level: 750
Maximum Value: 31

Discussion of Anomalous Measurement Data

Investigation Summary

Reason for Investigation: Fifteen scan measurements exceeded the investigation level.

Elevated Measurement Comparison (EMC):

| | |
|---|------------------------|
| DCGL (Investigation Level): | 7,500 |
| Measurement Units: | dpm/100cm ² |
| Maximum Value: | 17,340 |
| Size of Area Exceeding DCGL (m²): | 0.18 |
| Size of Survey Unit (m²): | 150 |
| Survey Unit Area >DCGL (%): | 0.12 |
| EMC Value: | 36,750 |

Action Taken: Corrected measurement values for scan locations as per guidance in memo FS-018-03; used a similar method for measurements obtained with a 43-68 gas flow proportional detector. Replaced original scan results in SDMS with the corrected results. Applied EMC data processing to scan locations 004, 058, 071, 072, 082, 114, & 139 that remain elevated.

Basis for Action Taken: Technical basis memorandum FS-018-03 provides guidance for correcting SDMS determined scan results for locations that exceed the investigation level by subtracting instrument background from the field results.

FINAL SURVEY RESULTS SUMMARY

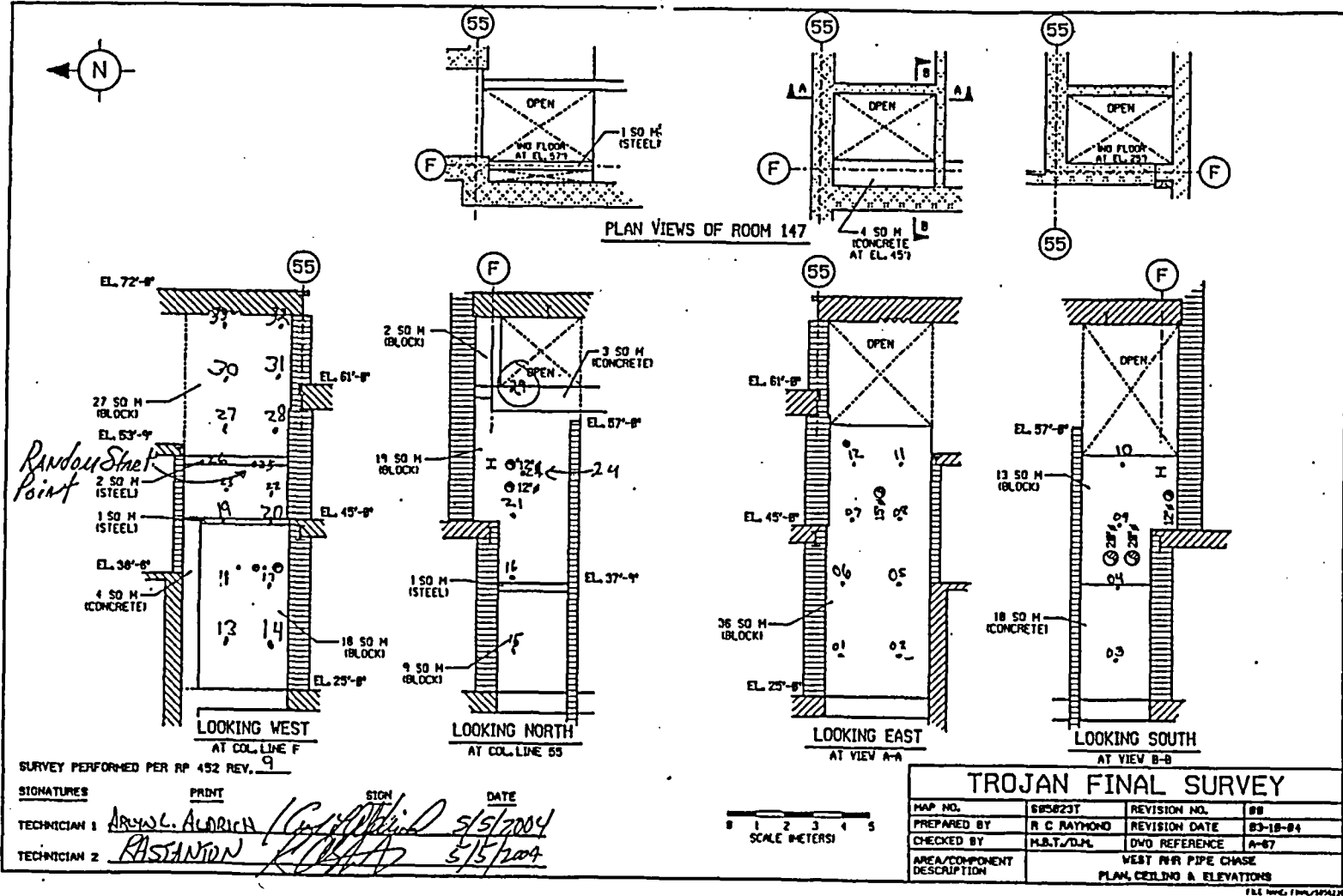
Survey Unit ID Code: S05023T

Survey Unit Name: AB 5' Elevation - West RHR Vertical Pipe Chase

Classification: Class 1

Size (m²): 150

Static Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05025U

Classification: Class 1

Survey Unit Name: AB 5' Elevation -

Size (m²): 194

Clean Waste Receiver Tank Room Upper Walls

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|-----------------------|------------|-------------------------|------------|-----|-----|
| 1 | 34 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 1.156e+003
 Maximum Value : 2.468e+003
 Range : 1.312e+003
 Median : 1.547e+003
 Std. Deviation : 3.660e+002
 Mean : 1.678e+003
 95% UCL : 1.784e+003

Measurement Values

| Location | Value | Location | Value |
|----------|------------|----------|------------|
| 000001 | 1.969e+003 | 000018 | 1.519e+003 |
| 000002 | 1.969e+003 | 000019 | 2.431e+003 |
| 000003 | 2.393e+003 | 000020 | 1.425e+003 |
| 000004 | 2.468e+003 | 000021 | 1.237e+003 |
| 000005 | 1.362e+003 | 000022 | 1.244e+003 |
| 000006 | 1.681e+003 | 000023 | 1.531e+003 |
| 000007 | 1.400e+003 | 000024 | 2.075e+003 |
| 000008 | 1.531e+003 | 000025 | 1.550e+003 |
| 000009 | 1.487e+003 | 000026 | 1.512e+003 |
| 000010 | 1.562e+003 | 000027 | 2.068e+003 |
| 000011 | 1.294e+003 | 000028 | 1.644e+003 |
| 000012 | 1.156e+003 | 000029 | 1.994e+003 |
| 000013 | 1.394e+003 | 000030 | 1.569e+003 |
| 000014 | 1.544e+003 | 000031 | 2.037e+003 |
| 000015 | 1.337e+003 | 000032 | 1.394e+003 |
| 000016 | 1.950e+003 | 000033 | 1.800e+003 |
| 000017 | 2.206e+003 | 000034 | 1.319e+003 |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05025U

Classification: Class 1

Survey Unit Name: AB 5' Elevation -

Size (m²): 194

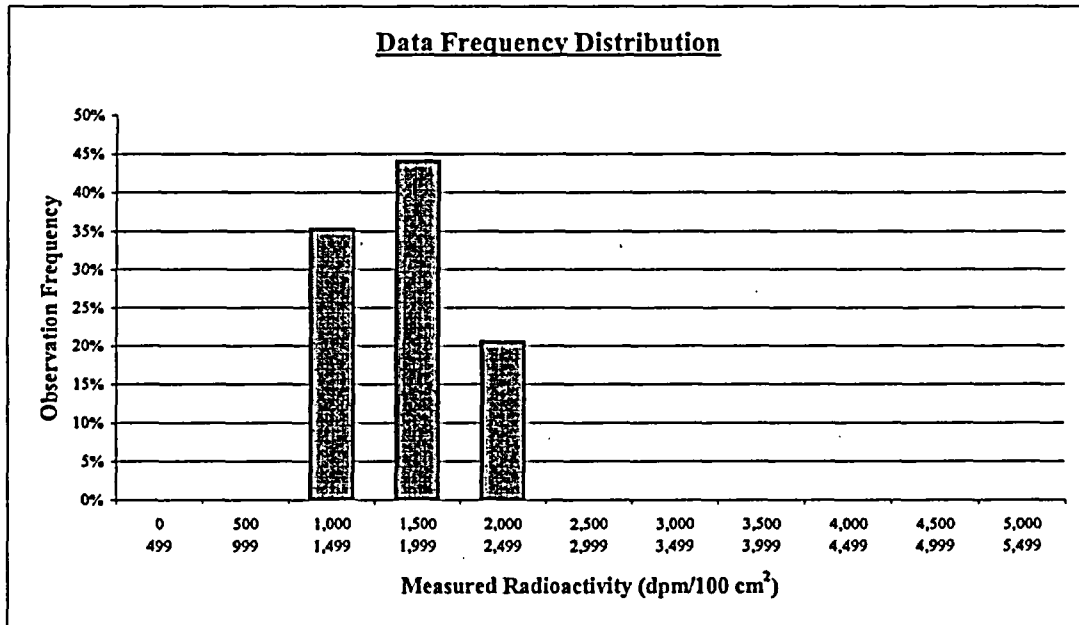
Clean Waste Receiver Tank Room Upper Walls

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | |
|-------------------------|------------------|---------------------|-------------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? |
| Range | 1,312 | 1,830 | Pass |
| Median | 0.358 | 0.500 | Pass |
| Mean | 1,678 | 6,000 | Pass |
| Std Dev | 366 | 1,500 | Pass |

| Statistical Quantities | |
|------------------------|-------|
| Range: | 1,312 |
| Median: | 1,547 |
| Mean: | 1,678 |
| Std Dev: | 366 |
| Minimum: | 1,156 |
| Maximum: | 2,468 |
| DCGL: | 7,500 |

All data less than DCGL; Sign statistical test not required.



| Plot Parameters | |
|---------------------|-------|
| # of measurements: | 34 |
| # of intervals: | 11 |
| Interval increment: | 500 |
| Minimum: | 0 |
| Maximum: | 5,499 |

Comment:

None.

| Interval | High End | Low End | Number of Observations | Observation Frequency |
|----------|----------|---------|------------------------|-----------------------|
| 1 | 499 | 0 | 0 | 0% |
| 2 | 999 | 500 | 0 | 0% |
| 3 | 1,499 | 1,000 | 12 | 35% |
| 4 | 1,999 | 1,500 | 15 | 44% |
| 5 | 2,499 | 2,000 | 7 | 21% |
| 6 | 2,999 | 2,500 | 0 | 0% |
| 7 | 3,499 | 3,000 | 0 | 0% |
| 8 | 3,999 | 3,500 | 0 | 0% |
| 9 | 4,499 | 4,000 | 0 | 0% |
| 10 | 4,999 | 4,500 | 0 | 0% |
| 11 | 5,499 | 5,000 | 0 | 0% |
| Total: | | | 34 | 100% |

FINAL SURVEY RESULTS SUMMARY

| | |
|--|----------------------------------|
| Survey Unit ID Code: S05025U | Classification: Class 1 |
| Survey Unit Name: AB 5' Elevation – Clean Waste Receiver Tank Room Upper Walls | Size (m²): 194 |

Judgmental and Miscellaneous Measurement Data

| | |
|--|-----------------------------------|
| Measurement Type: Surface Scanning Beta | Scan Coverage (%): 100 |
| Measurement Units: dpm/100cm ² | Investigation Level: 7,500 |
| Minimum Value: 981 | Maximum Value: 25,710 |

| | |
|--|-----------------------------------|
| Measurement Type: Removable Beta | Number of Measurements: 34 |
| Measurement Units: dpm/100cm ² | Investigation Level: 750 |
| Minimum Value: 5 | Maximum Value: 39 |

Discussion of Anomalous Measurement Data

Investigation Summary

Reason for Investigation: Six scan measurements exceeded the investigation level.

Elevated Measurement Comparison (EMC):

| | |
|---|------------------------|
| DCGL (Investigation Level): | 7,500 |
| Measurement Units: | dpm/100cm ² |
| Maximum Value: | 25,710 |
| Size of Area Exceeding DCGL (m²): | 0.07 |
| Size of Survey Unit (m²): | 194 |
| Survey Unit Area >DCGL (%): | 0.04 |
| EMC Value: | 36,750 |

Action Taken: Remediated scan location 124, as not ALARA (on painted surface) and rescanned. Applied EMC data processing to scan locations 052, 066, 075, 151, & 156 that are elevated.

Basis for Action Taken: Scan location 124 required remediation and resurvey as amount detected was not ALARA until remediation action (scabbling) taken. The other areas are each less than 1 m² and the appropriate area factor was applied.

FINAL SURVEY RESULTS SUMMARY

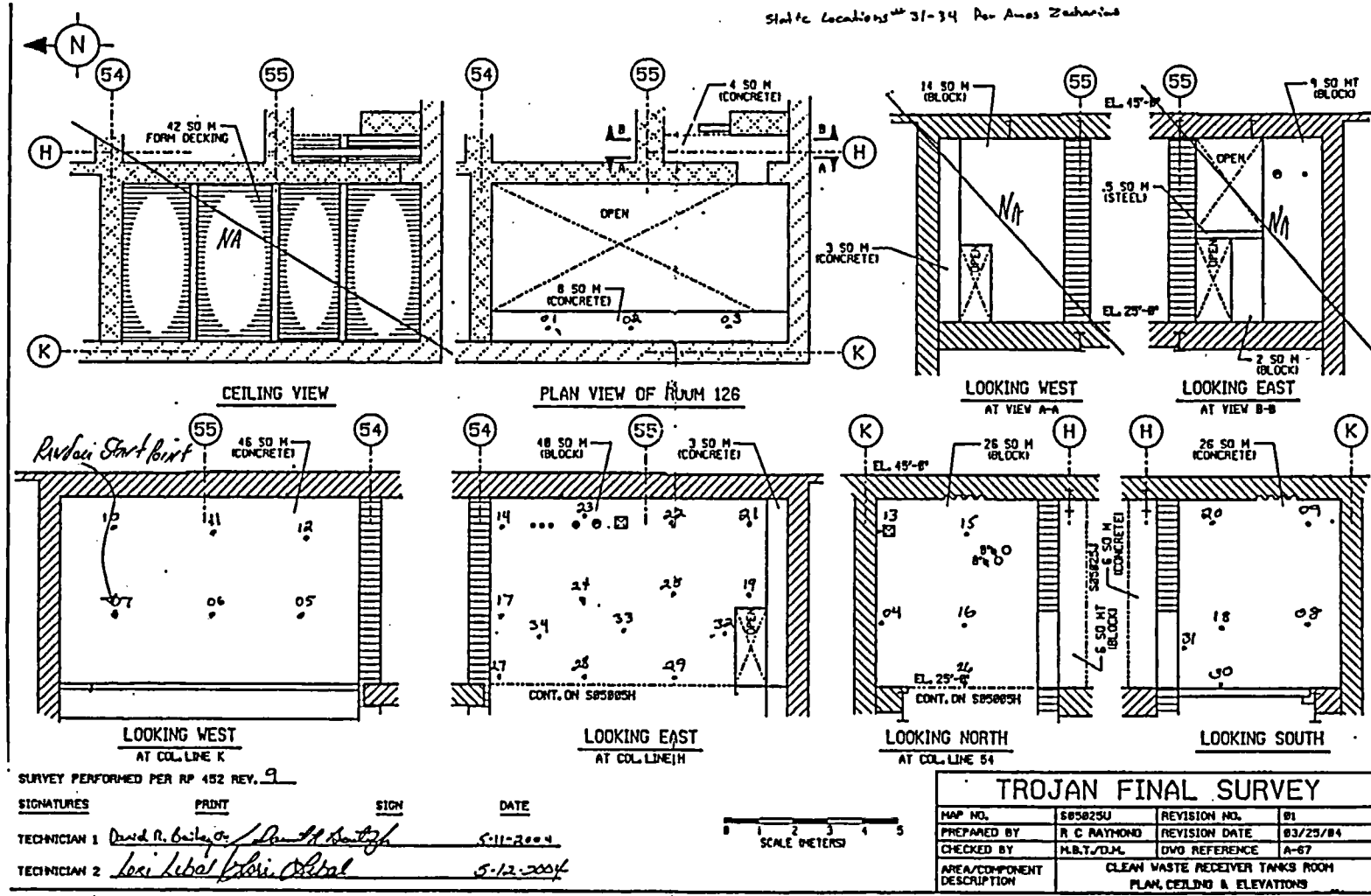
Survey Unit ID Code: S05025U

Survey Unit Name: AB 5' Elevation - Clean Waste Receiver Tank Room Upper Walls

Classification: Class 1

Size (m²): 194

Static Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05026N

Classification: Class 2

Survey Unit Name: AB 5' Elevation -

Size (m²): 104

"A" RHR Heat Exchanger Room Upper Walls and Ceiling

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|-----------------------|------------|-------------------------|------------|-----|-----|
| 1 | 30 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 6.653e+002
 Maximum Value : 2.902e+003
 Range : 2.237e+003
 Median : 8.034e+002
 Std. Deviation : 3.906e+002
 Mean : 8.778e+002
 95% UCL : 9.988e+002

Measurement Values

| Location | Value | Location | Value |
|----------|------------|----------|------------|
| 000001 | 8.092e+002 | 000018 | 7.975e+002 |
| 000002 | 8.637e+002 | 000019 | 8.248e+002 |
| 000003 | 8.248e+002 | 000020 | 6.653e+002 |
| 000004 | 7.664e+002 | 000021 | 7.703e+002 |
| 000005 | 8.364e+002 | 000022 | 7.314e+002 |
| 000006 | 2.902e+003 | 000023 | 1.097e+003 |
| 000007 | 8.326e+002 | 000024 | 8.364e+002 |
| 000008 | 7.236e+002 | 000025 | 8.170e+002 |
| 000009 | 7.431e+002 | 000026 | 8.676e+002 |
| 000010 | 8.637e+002 | 000027 | 8.754e+002 |
| 000011 | 8.442e+002 | 000028 | 7.392e+002 |
| 000012 | 7.781e+002 | 000029 | 7.509e+002 |
| 000013 | 7.859e+002 | 000030 | 9.454e+002 |
| 000014 | 7.937e+002 | | |
| 000015 | 7.742e+002 | | |
| 000016 | 7.003e+002 | | |
| 000017 | 7.742e+002 | | |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05026N

Classification: Class 2

Survey Unit Name: AB 5' Elevation -

Size (m²): 104

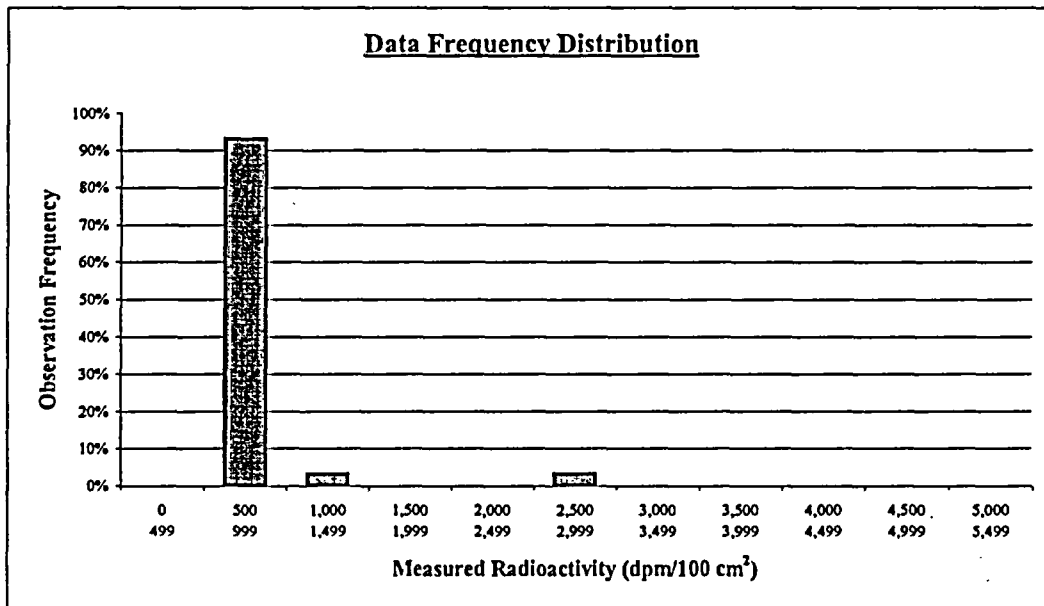
"A" RHR Heat Exchanger Room Upper Walls and Ceiling

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | |
|-------------------------|------------------|---------------------|-------------------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? |
| Range | 2,237 | 1,953 | See comment below |
| Median | 0.190 | 0.500 | Pass |
| Mean | 878 | 6,000 | Pass |
| Std Dev | 391 | 1,500 | Pass |

| Statistical Quantities | |
|------------------------|-------|
| Range: | 2,237 |
| Median: | 804 |
| Mean: | 878 |
| Std Dev: | 391 |
| Minimum: | 665 |
| Maximum: | 2,902 |
| DCGL: | 7,500 |

All data less than DCGL; Sign statistical test not required.



| Plot Parameters | |
|---------------------|-------|
| # of measurements: | 30 |
| # of intervals: | 11 |
| Interval increment: | 500 |
| Minimum: | 0 |
| Maximum: | 5,499 |

| Interval | High End | Low End | Number of Observations | Observation Frequency |
|----------|----------|---------|------------------------|-----------------------|
| 1 | 499 | 0 | 0 | 0% |
| 2 | 999 | 500 | 28 | 93% |
| 3 | 1,499 | 1,000 | 1 | 3% |
| 4 | 1,999 | 1,500 | 0 | 0% |
| 5 | 2,499 | 2,000 | 0 | 0% |
| 6 | 2,999 | 2,500 | 1 | 3% |
| 7 | 3,499 | 3,000 | 0 | 0% |
| 8 | 3,999 | 3,500 | 0 | 0% |
| 9 | 4,499 | 4,000 | 0 | 0% |
| 10 | 4,999 | 4,500 | 0 | 0% |
| 11 | 5,499 | 5,000 | 0 | 0% |
| Total: | | | 30 | 100% |

Comment:

Range failure is a test artifact only, due to two measurement values exceeding 1,000 dpm, while the other 28 measurement values are less than 950 dpm, which, with the relatively small data set standard deviation, results in a range value that exceeds the test criterion. All measurement values are valid and accepted.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05026N

Classification: Class 2

Survey Unit Name: AB 5' Elevation –

Size (m²): 104

“A” RHR Heat Exchanger Room Upper Walls and Ceiling

Judgmental and Miscellaneous Measurement Data

Measurement Type: Surface Scanning Beta

Scan Coverage (%): 35

Measurement Units: dpm/100cm²

Investigation Level: 7,500

Minimum Value: 870

Maximum Value: 2,597

Measurement Type: Removable Beta

Number of Measurements: 30

Measurement Units: dpm/100cm²

Investigation Level: 750

Minimum Value: 48

Maximum Value: 85

Discussion of Anomalous Measurement Data

Investigation Summary

No investigation required for this survey unit. No anomalous measurement data.

FINAL SURVEY RESULTS SUMMARY

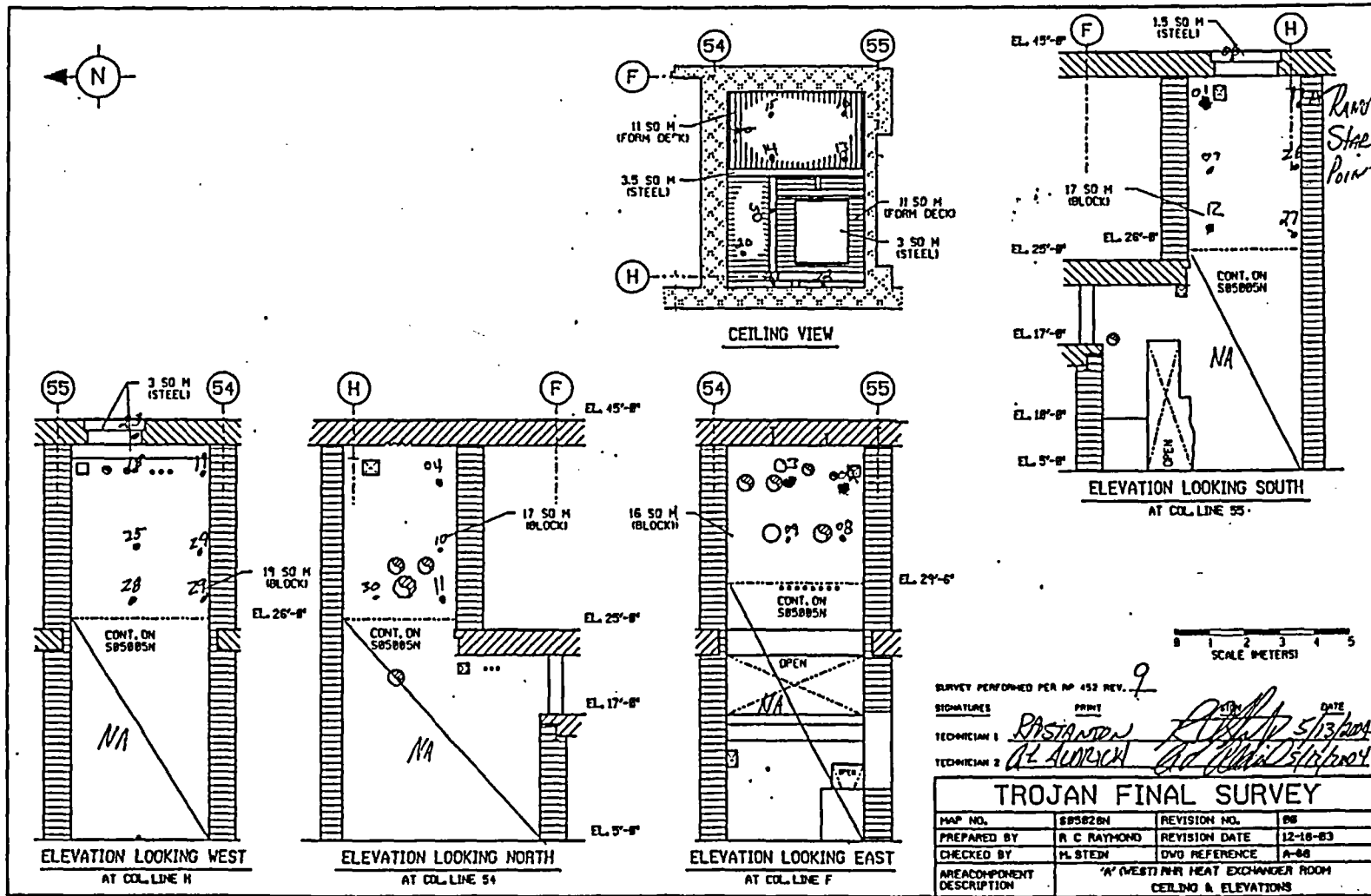
Survey Unit ID Code: S05026N

Survey Unit Name: AB 5' Elevation - "A" RHR Heat Exchanger Room Upper Walls and Ceiling

Classification: Class 2

Size (m²): 104

Static Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05043U
 Survey Unit Name: AB 5' Elevation -
 Clean Waste Receiver Tank Room Ceiling

Classification: Class 2
 Size (m²): 43

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|--------------------------|---------------|-------------------------|------------|-----|-----|
| 1 | 32 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 7.460e+002
 Maximum Value : 1.097e+003
 Range : 3.510e+002
 Median : 9.698e+002
 Std. Deviation : 9.355e+001
 Mean : 9.542e+002
 95% UCL : 9.822e+002

Measurement Values

| Location | Value | Location | Value |
|----------|------------|----------|------------|
| 000001 | 1.071e+003 | 000018 | 1.080e+003 |
| 000002 | 8.338e+002 | 000019 | 8.250e+002 |
| 000003 | 8.513e+002 | 000020 | 9.742e+002 |
| 000004 | 1.001e+003 | 000021 | 1.071e+003 |
| 000005 | 9.566e+002 | 000022 | 1.071e+003 |
| 000006 | 9.654e+002 | 000023 | 1.062e+003 |
| 000007 | 7.636e+002 | 000024 | 9.918e+002 |
| 000008 | 9.742e+002 | 000025 | 9.742e+002 |
| 000009 | 9.303e+002 | 000026 | 1.009e+003 |
| 000010 | 8.689e+002 | 000027 | 9.303e+002 |
| 000011 | 9.742e+002 | 000028 | 9.128e+002 |
| 000012 | 9.742e+002 | 000029 | 9.479e+002 |
| 000013 | 1.018e+003 | 000030 | 9.654e+002 |
| 000014 | 9.391e+002 | 000031 | 1.097e+003 |
| 000015 | 7.460e+002 | 000032 | 1.062e+003 |
| 000016 | 8.074e+002 | | |
| 000017 | 8.864e+002 | | |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05043U

Classification: Class 2

Survey Unit Name: AB 5' Elevation –

Size (m²): 43

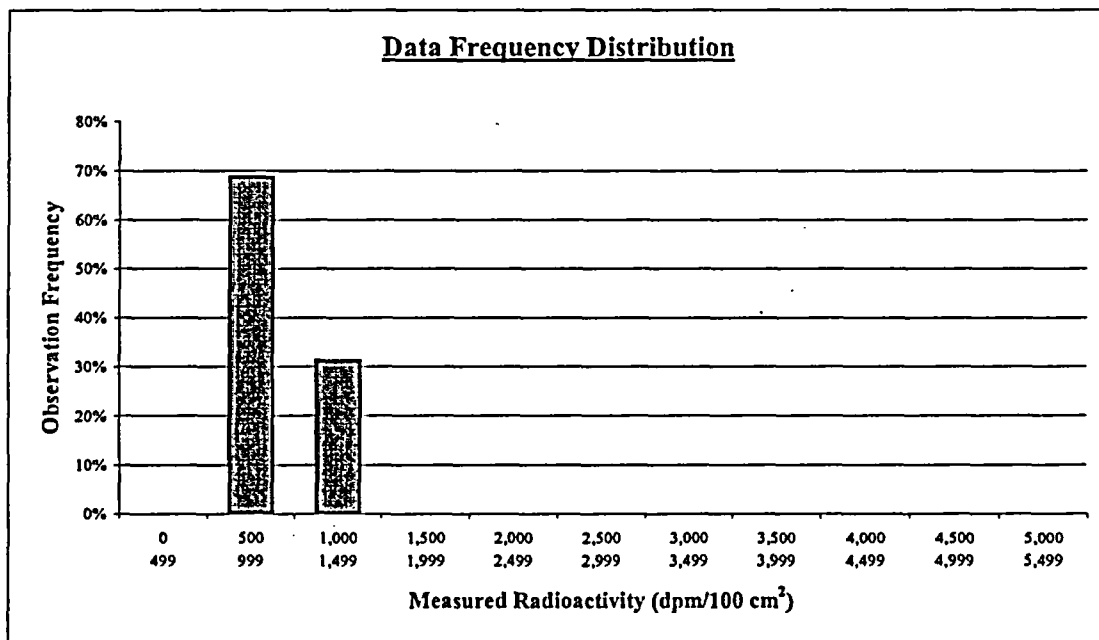
Clean Waste Receiver Tank Room Ceiling

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | |
|-------------------------|------------------|---------------------|-------------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? |
| Range | 351 | 468 | Pass |
| Median | 0.164 | 0.500 | Pass |
| Mean | 954 | 6,000 | Pass |
| Std Dev | 94 | 1,500 | Pass |

| Statistical Quantities | |
|------------------------|-------|
| Range: | 351 |
| Median: | 970 |
| Mean: | 954 |
| Std Dev: | 94 |
| Minimum: | 746 |
| Maximum: | 1,097 |
| DCGL: | 7,500 |

All data less than DCGL; Sign statistical test not required.



| Plot Parameters | |
|---------------------|-------|
| # of measurements: | 32 |
| # of intervals: | 11 |
| Interval increment: | 500 |
| Minimum: | 0 |
| Maximum: | 5,499 |

| Interval | High End | Low End | Number of Observations | Observation Frequency |
|----------|----------|---------|------------------------|-----------------------|
| 1 | 499 | 0 | 0 | 0% |
| 2 | 999 | 500 | 22 | 69% |
| 3 | 1,499 | 1,000 | 10 | 31% |
| 4 | 1,999 | 1,500 | 0 | 0% |
| 5 | 2,499 | 2,000 | 0 | 0% |
| 6 | 2,999 | 2,500 | 0 | 0% |
| 7 | 3,499 | 3,000 | 0 | 0% |
| 8 | 3,999 | 3,500 | 0 | 0% |
| 9 | 4,499 | 4,000 | 0 | 0% |
| 10 | 4,999 | 4,500 | 0 | 0% |
| 11 | 5,499 | 5,000 | 0 | 0% |
| Total: | | | 32 | 100% |

Comment:
None.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05043U

Classification: Class 2

Survey Unit Name: AB 5' Elevation –

Size (m²): 43

Clean Waste Receiver Tank Room Ceiling

Judgmental and Miscellaneous Measurement Data

Measurement Type: Surface Scanning Beta

Scan Coverage (%): 35

Measurement Units: dpm/100cm²

Investigation Level: 7,500

Minimum Value: 1,286

Maximum Value: 5,089

Measurement Type: Removable Beta

Number of Measurements: 32

Measurement Units: dpm/100cm²

Investigation Level: 750

Minimum Value: 3

Maximum Value: 15

Discussion of Anomalous Measurement Data

Investigation Summary

No investigation required for this survey unit. No anomalous measurement data.

FINAL SURVEY RESULTS SUMMARY

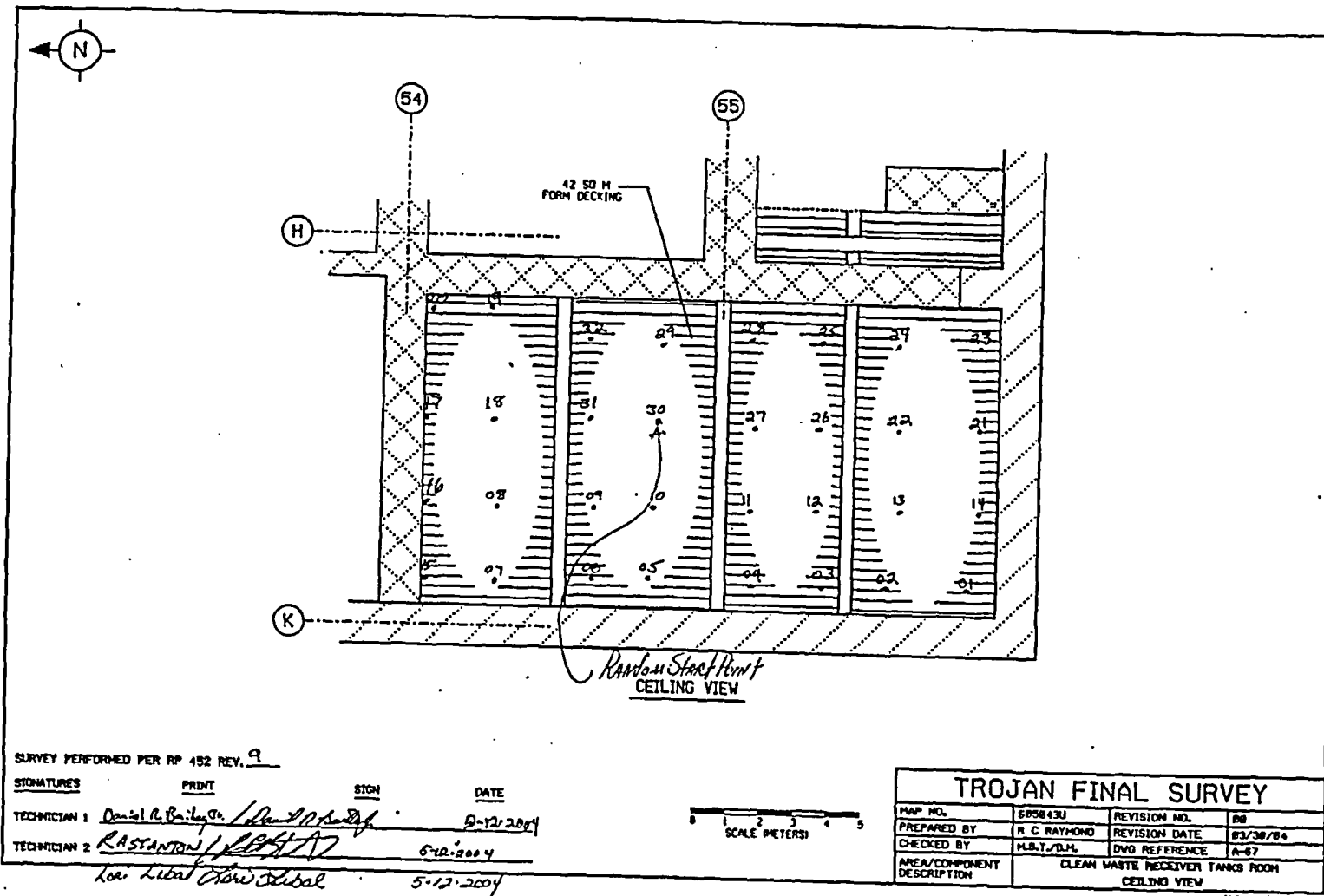
Survey Unit ID Code: S05043U

Survey Unit Name: AB 5' Elevation - Clean Waste Receiver Tank Room Ceiling

Classification: Class 2

Size (m²): 43

Static Measurement Locations Map



APPENDIX C

SURVEY UNIT SUMMARY REPORTS – AUXILIARY BUILDING

| <u>Survey Unit ID Code</u> | <u>Page(s)</u> |
|----------------------------|--------------------|
| S05025A | C-2 through C-6 |
| S05025B..... | C-7 through C-10 |
| S05025C..... | C-11 through C-15 |
| S05025D | C-16 through C-19 |
| S05025E..... | C-20 through C-23 |
| S05025F | C-24 through C-27 |
| S05025G | C-28 through C-31 |
| S05025H | C-32 through C-35 |
| S05025J..... | C-36 through C-39 |
| S05025K | C-40 through C-43 |
| S05025L..... | C-44 through C-47 |
| S05025M..... | C-48 through C-52 |
| S05025N | C-53 through C-56 |
| S05031A | C-57 through C-60 |
| S05031B..... | C-61 through C-65 |
| S05031C..... | C-66 through C-69 |
| S05037A | C-70 through C-73 |
| S05037B..... | C-74 through C-77 |
| S05037C..... | C-78 through C-83 |
| S05044A | C-84 through C-87 |
| S05044B..... | C-88 through C-91 |
| S05044C..... | C-92 through C-95 |
| S05044D | C-96 through C-99 |
| S05044E..... | C-100 through C103 |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05025A
 Survey Unit Name: AB 25' Elevation -
 North Corridor Walls and Ceiling

Classification: Class 2
 Size (m²): 300

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|-----------------------|------------|-------------------------|------------|-----|-----|
| 1 | 30 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 5.567e+002
 Maximum Value : 1.220e+003
 Range : 6.633e+002
 Median : 7.996e+002
 Std. Deviation : 1.409e+002
 Mean : 8.191e+002
 95% UCL : 8.627e+002

Measurement Values

| Location | Value | Location | Value |
|----------|------------|----------|------------|
| 000001 | 7.937e+002 | 000018 | 1.220e+003 |
| 000002 | 8.410e+002 | 000019 | 9.279e+002 |
| 000003 | 9.753e+002 | 000020 | 6.278e+002 |
| 000004 | 9.476e+002 | 000021 | 8.173e+002 |
| 000005 | 8.134e+002 | 000022 | 7.384e+002 |
| 000006 | 7.068e+002 | 000023 | 6.002e+002 |
| 000007 | 7.660e+002 | 000024 | 8.252e+002 |
| 000008 | 7.581e+002 | 000025 | 7.542e+002 |
| 000009 | 8.055e+002 | 000026 | 5.567e+002 |
| 000010 | 8.331e+002 | 000027 | 7.937e+002 |
| 000011 | 7.581e+002 | 000028 | 7.818e+002 |
| 000012 | 8.252e+002 | 000029 | 7.779e+002 |
| 000013 | 1.106e+003 | 000030 | 8.134e+002 |
| 000014 | 8.568e+002 | | |
| 000015 | 7.305e+002 | | |
| 000016 | 7.344e+002 | | |
| 000017 | 1.086e+003 | | |

FINAL SURVEY RESULTS SUMMARY

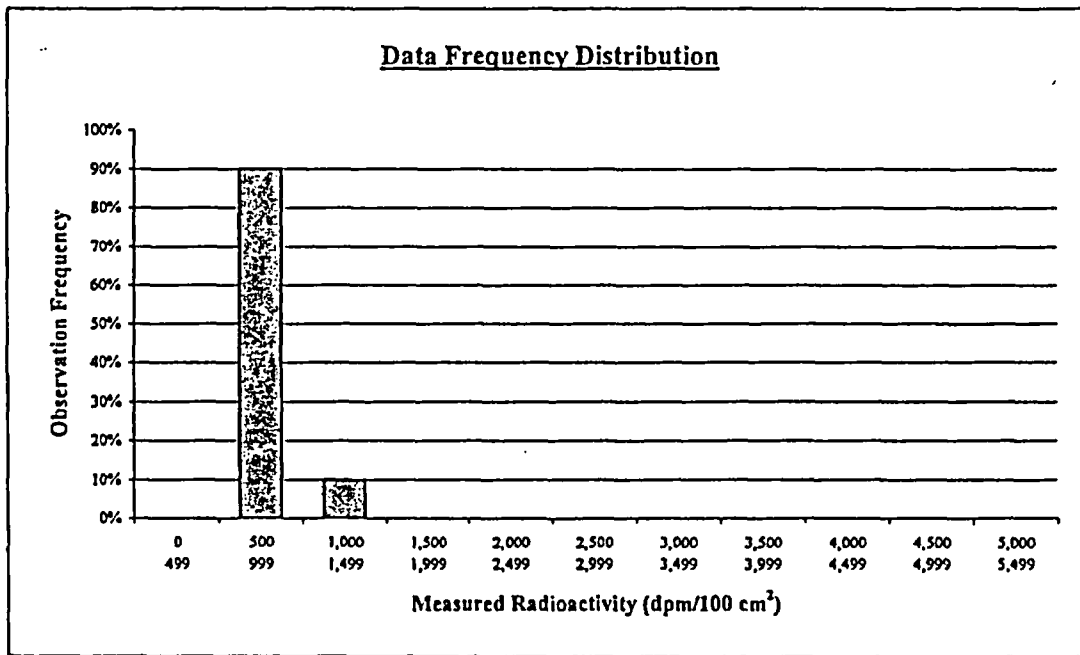
Survey Unit ID Code: S05025A
 Survey Unit Name: AB 25' Elevation -
 North Corridor Walls and Ceiling

Classification: Class 2
 Size (m²): 300

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | | Statistical Quantities | |
|-------------------------|------------------|---------------------|-------------|------------------------|-------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? | Range: | 663 |
| Range | 663 | 705 | Pass | Median: | 800 |
| Median | 0.138 | 0.500 | Pass | Mean: | 819 |
| Mean | 819 | 6,000 | Pass | Std Dev: | 141 |
| Std Dev | 141 | 1,500 | Pass | Minimum: | 557 |
| | | | | Maximum: | 1,220 |
| | | | | DCGL: | 7,500 |

All data less than DCGL; Sign statistical test not required.



| Plot Parameters | Interval | High End | Low End | Number of Observations | Observation Frequency |
|---------------------|----------|----------|---------|------------------------|-----------------------|
| # of measurements: | 30 | 1 | 499 | 0 | 0% |
| # of intervals: | 11 | 2 | 999 | 27 | 90% |
| Interval increment: | 500 | 3 | 1,499 | 3 | 10% |
| Minimum: | 0 | 4 | 1,999 | 0 | 0% |
| Maximum: | 5,499 | 5 | 2,499 | 0 | 0% |
| | | 6 | 2,999 | 0 | 0% |
| | | 7 | 3,499 | 0 | 0% |
| | | 8 | 3,999 | 0 | 0% |
| | | 9 | 4,499 | 0 | 0% |
| | | 10 | 4,999 | 0 | 0% |
| | | 11 | 5,499 | 0 | 0% |
| | | Total: | | 30 | 100% |

Comment:
None.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05025A
Survey Unit Name: AB 25' Elevation –
North Corridor Walls and Ceiling

Classification: Class 2
Size (m²): 300

Judgmental and Miscellaneous Measurement Data

Measurement Type: Surface Scanning Beta
Measurement Units: dpm/100cm²
Minimum Value: 925

Scan Coverage (%): 20
Investigation Level: 7,500
Maximum Value: 6,383

Measurement Type: Removable Beta
Measurement Units: dpm/100cm²
Minimum Value: 2

Number of Measurements: 30
Investigation Level: 750
Maximum Value: 212

Discussion of Anomalous Measurement Data

Investigation Summary

No investigation required for this survey unit. No anomalous measurement data.

FINAL SURVEY RESULTS SUMMARY

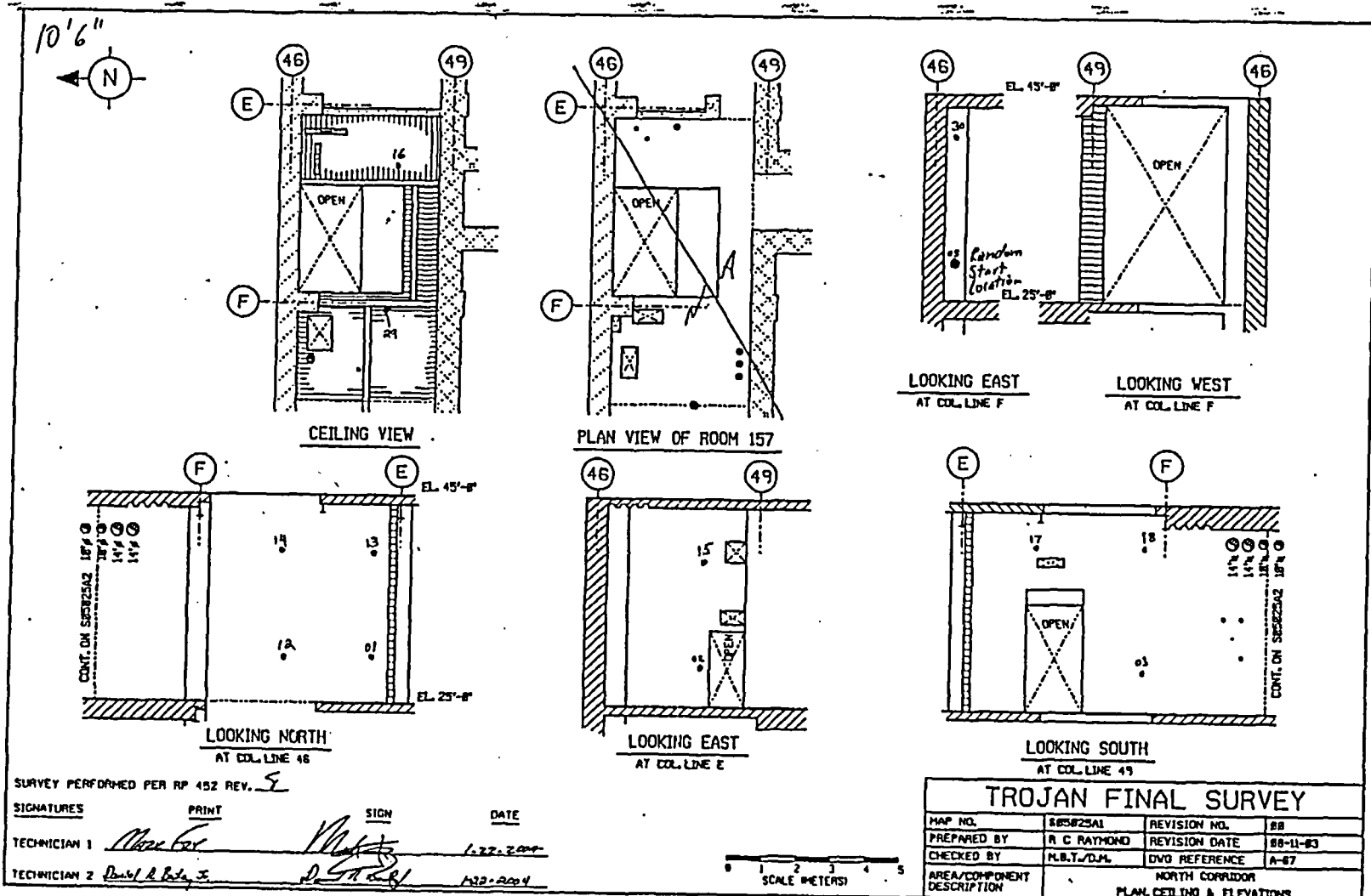
Survey Unit ID Code: S05025A

Survey Unit Name: AB 25' Elevation - North Corridor Walls and Ceiling

Classification: Class 2

Size (m²): 300

Static Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

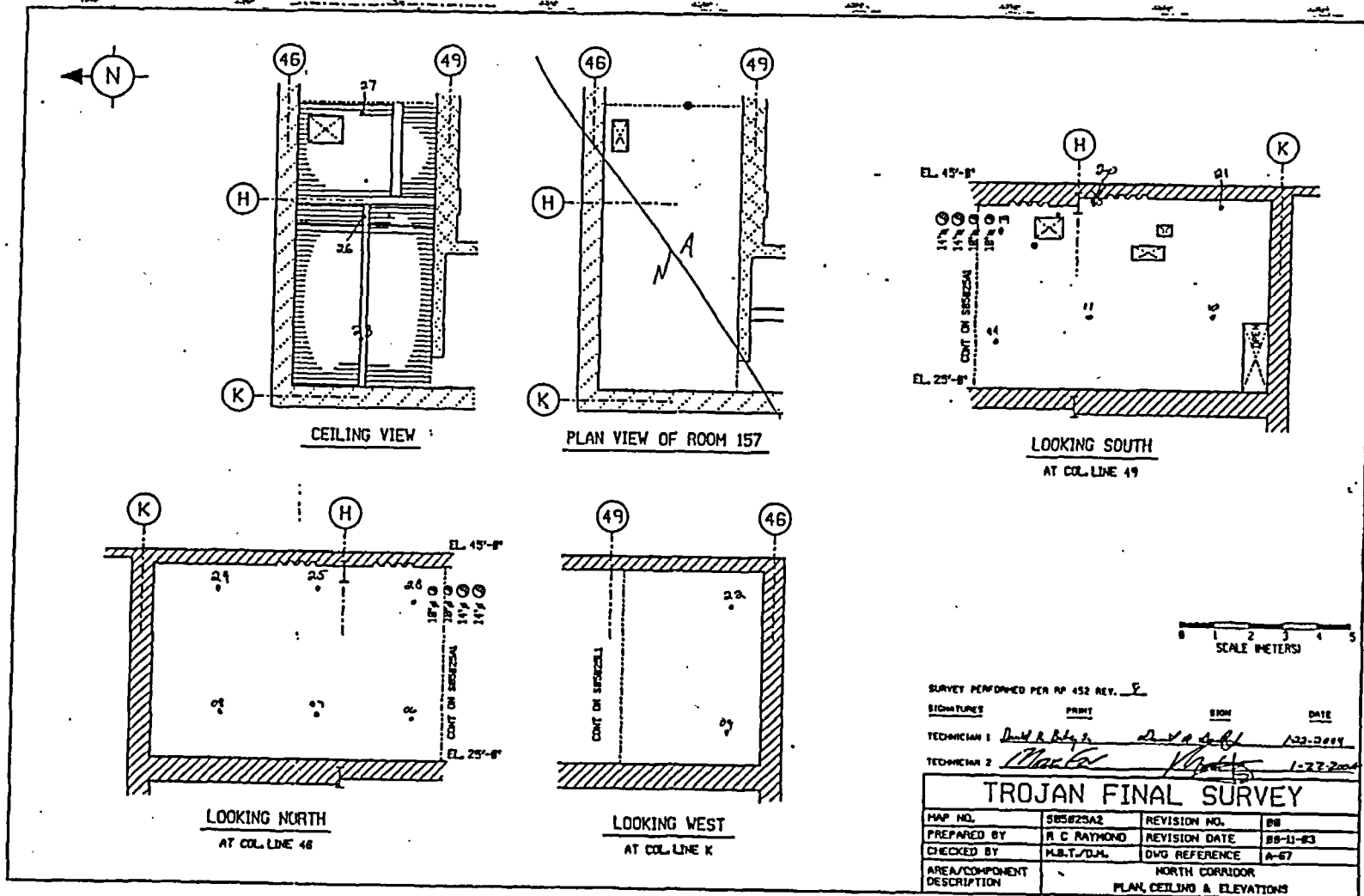
Survey Unit ID Code: S05025A

Survey Unit Name: AB 25' Elevation - North Corridor Walls and Ceiling

Classification: Class 2

Size (m²): 300

Static Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05025B

Classification: Class 1

Survey Unit Name: AB 25' Elevation - North Corridor Floor

Size (m²): 62

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|-----------------------|------------|-------------------------|------------|-----|-----|
| 1 | 36 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 1.263e+003
 Maximum Value : 2.196e+003
 Range : 9.330e+002
 Median : 1.855e+003
 Std. Deviation : 1.870e+002
 Mean : 1.828e+003
 95% UCL : 1.881e+003

Measurement Values

| Location | Value | Location | Value | Location | Value |
|----------|------------|----------|------------|----------|------------|
| 000001 | 1.561e+003 | 000018 | 1.799e+003 | 000035 | 1.806e+003 |
| 000002 | 1.534e+003 | 000019 | 1.951e+003 | 000036 | 2.004e+003 |
| 000003 | 1.680e+003 | 000020 | 1.944e+003 | | |
| 000004 | 1.766e+003 | 000021 | 1.944e+003 | | |
| 000005 | 1.812e+003 | 000022 | 2.196e+003 | | |
| 000006 | 1.739e+003 | 000023 | 1.925e+003 | | |
| 000007 | 1.898e+003 | 000024 | 1.772e+003 | | |
| 000008 | 1.984e+003 | 000025 | 1.792e+003 | | |
| 000009 | 2.097e+003 | 000026 | 1.786e+003 | | |
| 000010 | 1.825e+003 | 000027 | 1.310e+003 | | |
| 000011 | 2.030e+003 | 000028 | 1.951e+003 | | |
| 000012 | 1.865e+003 | 000029 | 1.878e+003 | | |
| 000013 | 1.911e+003 | 000030 | 1.263e+003 | | |
| 000014 | 1.931e+003 | 000031 | 1.832e+003 | | |
| 000015 | 1.845e+003 | 000032 | 1.911e+003 | | |
| 000016 | 1.706e+003 | 000033 | 1.885e+003 | | |
| 000017 | 1.753e+003 | 000034 | 1.925e+003 | | |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05025B

Classification: Class 1

Survey Unit Name: AB 25' Elevation – North Corridor Floor

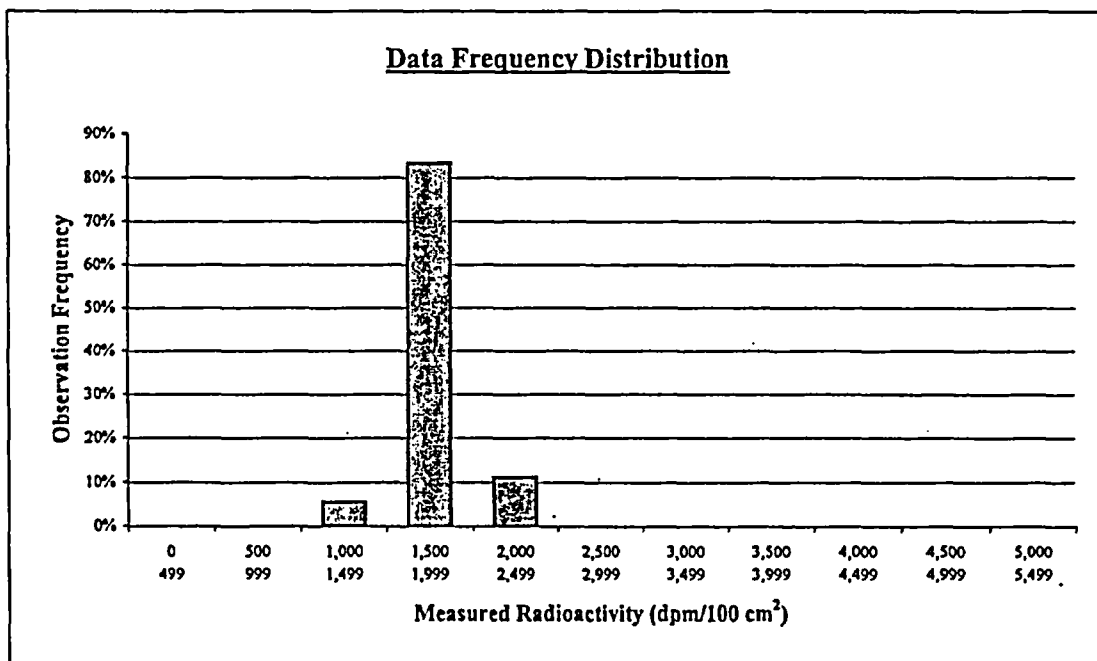
Size (m²): 62

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | |
|-------------------------|------------------|---------------------|-------------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? |
| Range | 933 | 935 | Pass |
| Median | 0.144 | 0.500 | Pass |
| Mean | 1,828 | 6,000 | Pass |
| Std Dev | 187 | 1,500 | Pass |

| Statistical Quantities | |
|------------------------|-------|
| Range: | 933 |
| Median: | 1,855 |
| Mean: | 1,828 |
| Std Dev: | 187 |
| Minimum: | 1,263 |
| Maximum: | 2,196 |
| DCGL: | 7,500 |

All data less than DCGL; Sign statistical test not required.



| Plot Parameters | |
|---------------------|-------|
| # of measurements: | 36 |
| # of intervals: | 11 |
| Interval increment: | 500 |
| Minimum: | 0 |
| Maximum: | 5,499 |

Comment:
None.

| Interval | High End | Low End | Number of Observations | Observation Frequency |
|---------------|----------|---------|------------------------|-----------------------|
| 1 | 499 | 0 | 0 | 0% |
| 2 | 999 | 500 | 0 | 0% |
| 3 | 1,499 | 1,000 | 2 | 6% |
| 4 | 1,999 | 1,500 | 30 | 83% |
| 5 | 2,499 | 2,000 | 4 | 11% |
| 6 | 2,999 | 2,500 | 0 | 0% |
| 7 | 3,499 | 3,000 | 0 | 0% |
| 8 | 3,999 | 3,500 | 0 | 0% |
| 9 | 4,499 | 4,000 | 0 | 0% |
| 10 | 4,999 | 4,500 | 0 | 0% |
| 11 | 5,499 | 5,000 | 0 | 0% |
| Total: | | | 36 | 100% |

FINAL SURVEY RESULTS SUMMARY

| | |
|--|---------------------------------|
| Survey Unit ID Code: S05025B | Classification: Class 1 |
| Survey Unit Name: AB 25' Elevation – North Corridor Floor | Size (m²): 62 |

Judgmental and Miscellaneous Measurement Data

| | |
|--|-----------------------------------|
| Measurement Type: Surface Scanning Beta | Scan Coverage (%): 100 |
| Measurement Units: dpm/100cm ² | Investigation Level: 7,500 |
| Minimum Value: 787 | Maximum Value: 20,760 |

| | |
|--|-----------------------------------|
| Measurement Type: Removable Beta | Number of Measurements: 36 |
| Measurement Units: dpm/100cm ² | Investigation Level: 750 |
| Minimum Value: 3 | Maximum Value: 19 |

Discussion of Anomalous Measurement Data

Investigation Summary

Reason for Investigation: Seven scan measurements exceeded the investigation level.

Elevated Measurement Comparison (EMC):

| | |
|---|------------------------|
| DCGL (Investigation Level): | 7,500 |
| Measurement Units: | dpm/100cm ² |
| Maximum Value: | 20,757 |
| Size of Area Exceeding DCGL (m²): | 0.37 |
| Size of Survey Unit (m²): | 62 |
| Survey Unit Area >DCGL (%): | 0.6 |
| EMC Value: | 36,750 |

Action Taken: Corrected measurement values for scan locations per guidance in memo FS-018-03; used similar method for elevated scan measurements obtained with a 43-68 gas flow proportional detector. Replaced original scan results in SDMS with the corrected results. Applied EMC data processing to corrected scan locations 003, 058, 064, & 065 that remain elevated.

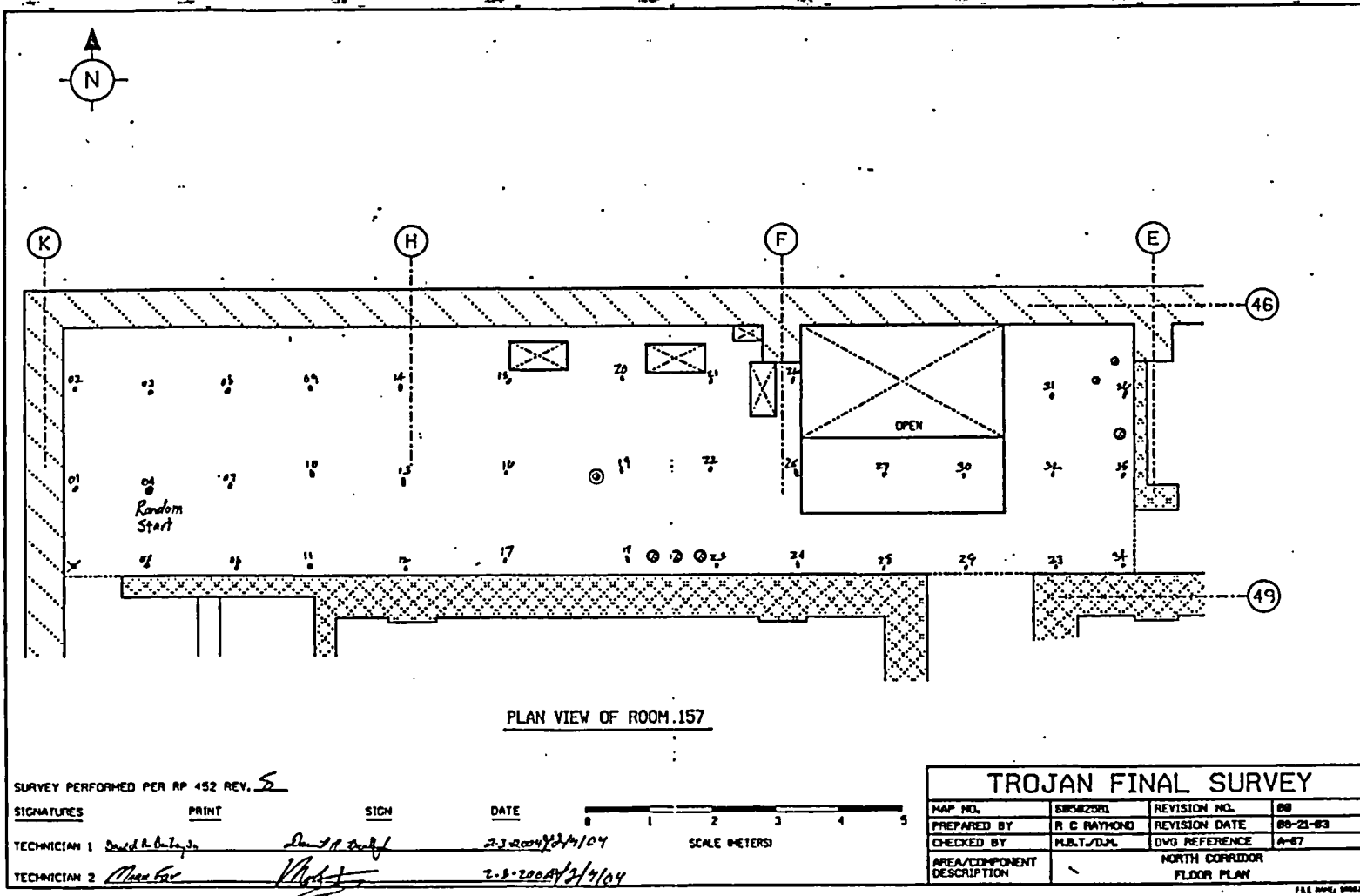
Basis for Action Taken: Technical basis memorandum FS-018-03 provides guidance for correcting SDMS determined scan results for locations that exceed the investigation level by subtracting instrument background from the field results.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05025B
 Survey Unit Name: AB 25' Elevation – North Corridor Floor

Classification: Class 1
 Size (m²): 62

Static Measurement Locations Map



SURVEY PERFORMED PER RP 452 REV. 5

| SIGNATURES | PRINT | SIGN | DATE | SCALE METERS |
|--------------|-------------------------|-------------|-----------------|--------------|
| TECHNICIAN 1 | David R. B. [Signature] | [Signature] | 2-3-2004/2/4/04 | 0 1 2 3 4 5 |
| TECHNICIAN 2 | Chloe Fox [Signature] | [Signature] | 2-3-2004/2/4/04 | |

| TROJAN FINAL SURVEY | | | |
|----------------------------|---------------------------|---------------|----------|
| MAP NO. | S05025B | REVISION NO. | 00 |
| PREPARED BY | R C RAYMOND | REVISION DATE | 09-21-03 |
| CHECKED BY | M.B.T./D.J.L. | DWG REFERENCE | A-07 |
| AREA/COMPONENT DESCRIPTION | NORTH CORRIDOR FLOOR PLAN | | |

FILE NAME: 0002700

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05025C
 Survey Unit Name: AB 25' Elevation -
 Central Hallway Walls and Ceiling

Classification: Class 2
 Size (m²): 143

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|-----------------------|------------|-------------------------|------------|-----|-----|
| 1 | 30 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 7.317e+002
 Maximum Value : 9.524e+002
 Range : 2.207e+002
 Median : 8.305e+002
 Std. Deviation : 5.220e+001
 Mean : 8.276e+002
 95% UCL : 8.438e+002

Measurement Values

| Location | Value | Location | Value |
|----------|------------|----------|------------|
| 000001 | 7.317e+002 | 000018 | 8.401e+002 |
| 000002 | 8.324e+002 | 000019 | 8.982e+002 |
| 000003 | 8.633e+002 | 000020 | 8.556e+002 |
| 000004 | 7.937e+002 | 000021 | 8.517e+002 |
| 000005 | 8.401e+002 | 000022 | 9.137e+002 |
| 000006 | 7.743e+002 | 000023 | 7.898e+002 |
| 000007 | 7.627e+002 | 000024 | 8.324e+002 |
| 000008 | 8.014e+002 | 000025 | 7.937e+002 |
| 000009 | 8.904e+002 | 000026 | 9.524e+002 |
| 000010 | 8.904e+002 | 000027 | 8.285e+002 |
| 000011 | 7.859e+002 | 000028 | 7.975e+002 |
| 000012 | 8.556e+002 | 000029 | 8.479e+002 |
| 000013 | 8.943e+002 | 000030 | 7.898e+002 |
| 000014 | 7.666e+002 | | |
| 000015 | 7.666e+002 | | |
| 000016 | 7.975e+002 | | |
| 000017 | 7.898e+002 | | |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05025C
 Survey Unit Name: AB 25' Elevation -
 Central Hallway Walls and Ceiling

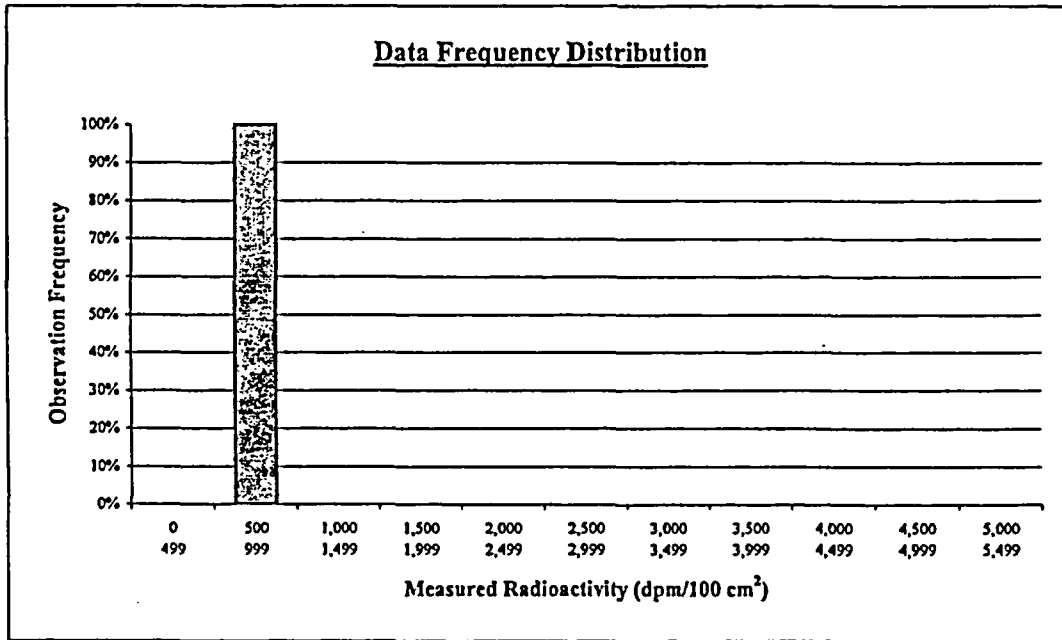
Classification: Class 2
 Size (m²): 143

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | |
|-------------------------|------------------|---------------------|-------------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? |
| Range | 221 | 261 | Pass |
| Median | 0.055 | 0.500 | Pass |
| Mean | 828 | 6,000 | Pass |
| Std Dev | 52 | 1,500 | Pass |

All data less than DCGL; Sign statistical test not required.

| Statistical Quantities | |
|------------------------|-------|
| Range: | 221 |
| Median: | 830 |
| Mean: | 828 |
| Std Dev: | 52 |
| Minimum: | 732 |
| Maximum: | 952 |
| DCGL: | 7,500 |



| Plot Parameters | |
|---------------------|-------|
| # of measurements: | 30 |
| # of intervals: | 11 |
| Interval increment: | 500 |
| Minimum: | 0 |
| Maximum: | 5,499 |

Comment:
None.

| Interval | High End | Low End | Number of Observations | Observation Frequency |
|----------|----------|---------|------------------------|-----------------------|
| 1 | 499 | 0 | 0 | 0% |
| 2 | 999 | 500 | 30 | 100% |
| 3 | 1,499 | 1,000 | 0 | 0% |
| 4 | 1,999 | 1,500 | 0 | 0% |
| 5 | 2,499 | 2,000 | 0 | 0% |
| 6 | 2,999 | 2,500 | 0 | 0% |
| 7 | 3,499 | 3,000 | 0 | 0% |
| 8 | 3,999 | 3,500 | 0 | 0% |
| 9 | 4,499 | 4,000 | 0 | 0% |
| 10 | 4,999 | 4,500 | 0 | 0% |
| 11 | 5,499 | 5,000 | 0 | 0% |
| Total: | | | 30 | 100% |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05025C

Classification: Class 2

Survey Unit Name: AB 25' Elevation –
Central Hallway Walls and Ceiling

Size (m²): 143

Judgmental and Miscellaneous Measurement Data

Measurement Type: Surface Scanning Beta

Scan Coverage (%): 20

Measurement Units: dpm/100cm²

Investigation Level: 7,500

Minimum Value: 936

Maximum Value: 3,540

Measurement Type: Removable Beta

Number of Measurements: 30

Measurement Units: dpm/100cm²

Investigation Level: 750

Minimum Value: 3

Maximum Value: 18

Discussion of Anomalous Measurement Data

Investigation Summary

No investigation required for this survey unit. No anomalous measurement data.

FINAL SURVEY RESULTS SUMMARY

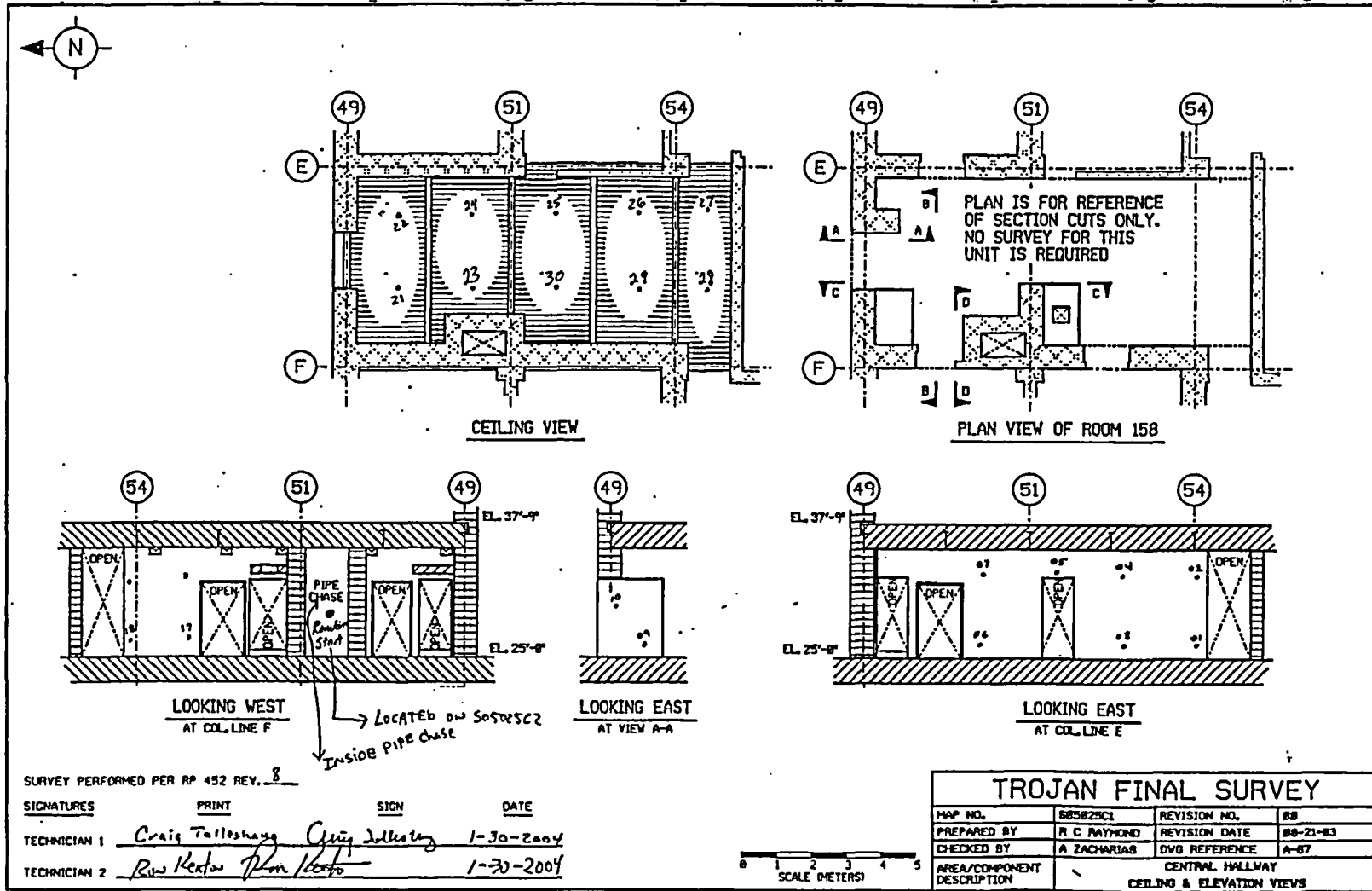
Survey Unit ID Code: S05025C

Survey Unit Name: AB 25' Elevation - Central Hallway Walls and Ceiling

Classification: Class 2

Size (m²): 143

Static Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

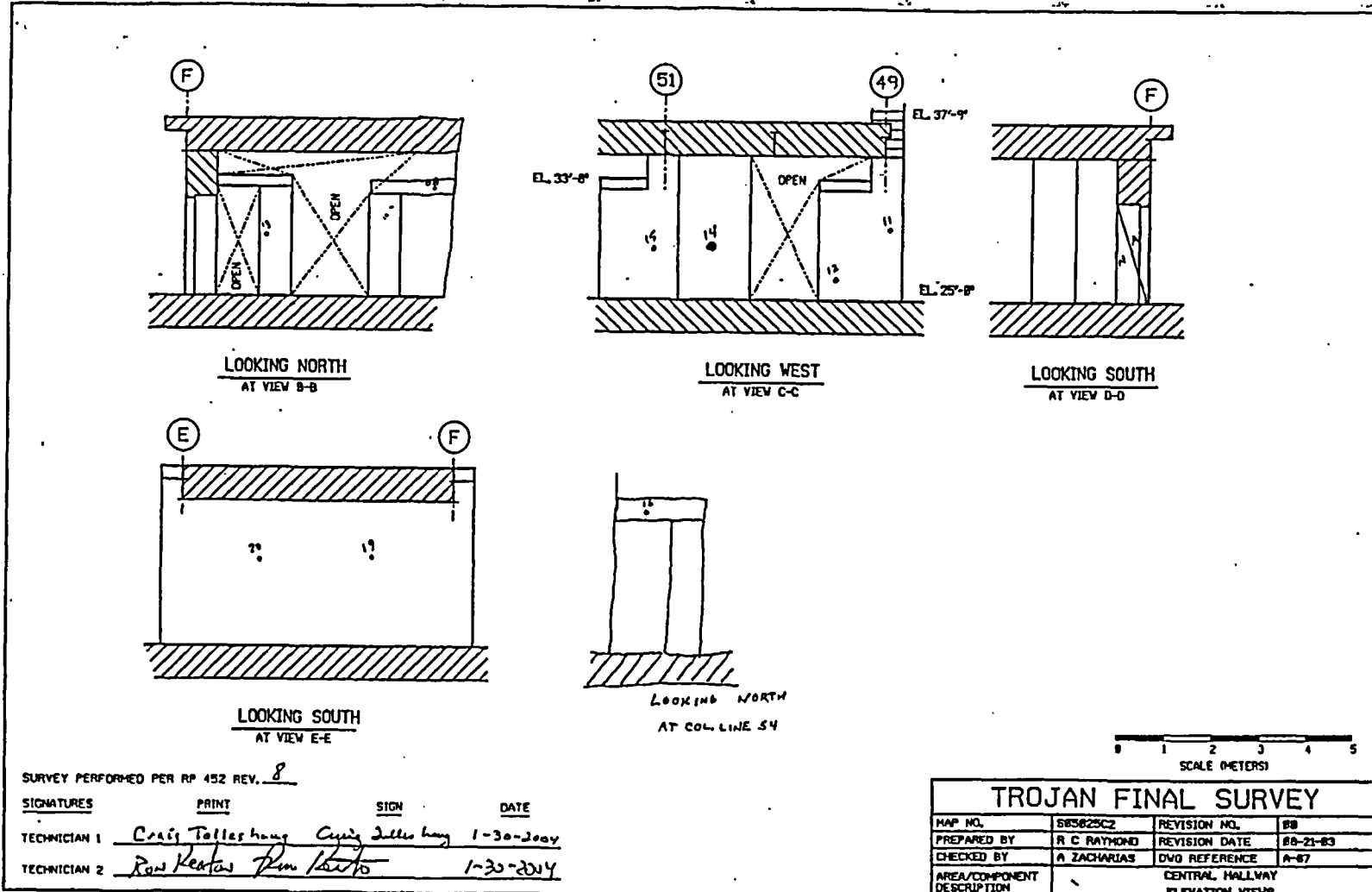
Survey Unit ID Code: S05025C

Survey Unit Name: AB 25' Elevation – Central Hallway Walls and Ceiling

Classification: Class 2

Size (m²): 143

Static Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05025D

Classification: Class 1

Survey Unit Name: AB 25' Elevation - Central Hallway Floor

Size (m²): 47

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # OF Meas. | Measurement Unit | DCGL | SGN | WRS |
|--------------------------|---------------|-------------------------|------------|-----|-----|
| 1 | 30 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 1.812e+003
 Maximum Value : 2.394e+003
 Range : 5.820e+002
 Median : 2.077e+003
 Std. Deviation : 1.284e+002
 Mean : 2.085e+003
 95% UCL : 2.125e+003

Measurement Values

| Location | Value | Location | Value |
|----------|------------|----------|------------|
| 000001 | 1.991e+003 | 000018 | 2.156e+003 |
| 000002 | 2.229e+003 | 000019 | 2.044e+003 |
| 000003 | 2.116e+003 | 000020 | 1.984e+003 |
| 000004 | 2.136e+003 | 000021 | 1.892e+003 |
| 000005 | 2.090e+003 | 000022 | 2.017e+003 |
| 000006 | 2.004e+003 | 000023 | 2.103e+003 |
| 000007 | 1.812e+003 | 000024 | 2.275e+003 |
| 000008 | 1.991e+003 | 000025 | 2.024e+003 |
| 000009 | 2.216e+003 | 000026 | 2.222e+003 |
| 000010 | 2.156e+003 | 000027 | 2.169e+003 |
| 000011 | 2.394e+003 | 000028 | 2.063e+003 |
| 000012 | 2.037e+003 | 000029 | 2.288e+003 |
| 000013 | 2.143e+003 | 000030 | 1.938e+003 |
| 000014 | 2.136e+003 | | |
| 000015 | 1.997e+003 | | |
| 000016 | 1.918e+003 | | |
| 000017 | 2.011e+003 | | |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05025D

Classification: Class 1

Survey Unit Name: AB 25' Elevation – Central Hallway Floor

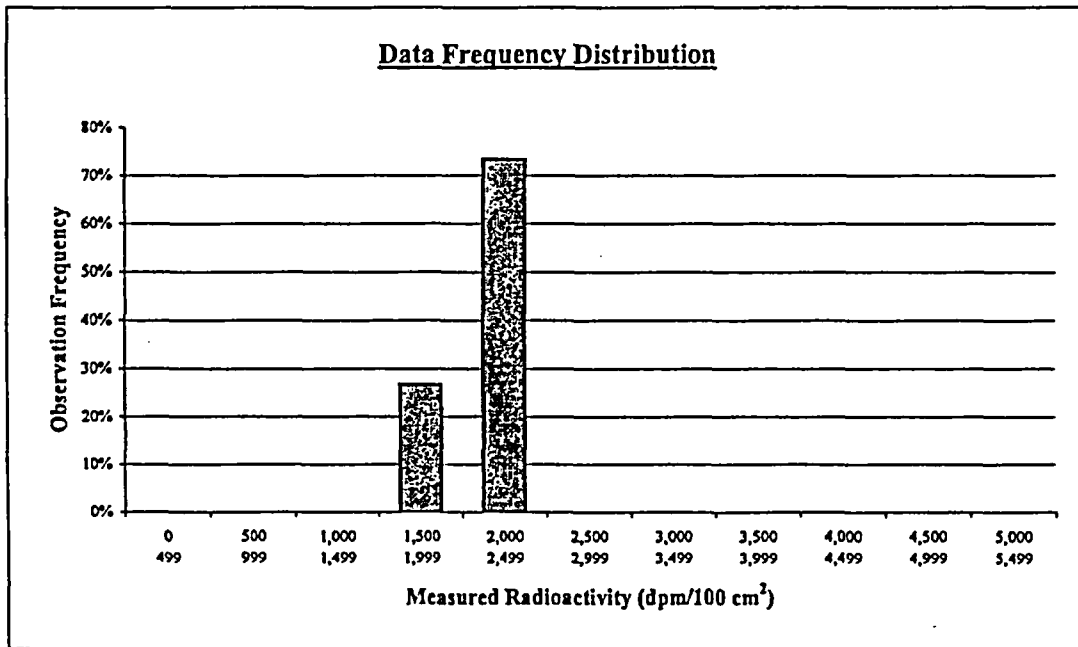
Size (m²): 47

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | |
|-------------------------|------------------|---------------------|-------------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? |
| Range | 582 | 642 | Pass |
| Median | 0.067 | 0,500 | Pass |
| Mean | 2,085 | 6,000 | Pass |
| Std Dev | 128 | 1,500 | Pass |

| Statistical Quantities | |
|------------------------|-------|
| Range: | 582 |
| Median: | 2,077 |
| Mean: | 2,085 |
| Std Dev: | 128 |
| Minimum: | 1,812 |
| Maximum: | 2,394 |
| DCGL: | 7,500 |

All data less than DCGL; Sign statistical test not required.



| Plot Parameters | |
|---------------------|-------|
| # of measurements: | 30 |
| # of intervals: | 11 |
| Interval increment: | 500 |
| Minimum: | 0 |
| Maximum: | 5,499 |

Comment:
None.

| Interval | High End | Low End | Number of Observations | Observation Frequency |
|----------|----------|---------|------------------------|-----------------------|
| 1 | 499 | 0 | 0 | 0% |
| 2 | 999 | 500 | 0 | 0% |
| 3 | 1,499 | 1,000 | 0 | 0% |
| 4 | 1,999 | 1,500 | 8 | 27% |
| 5 | 2,499 | 2,000 | 22 | 73% |
| 6 | 2,999 | 2,500 | 0 | 0% |
| 7 | 3,499 | 3,000 | 0 | 0% |
| 8 | 3,999 | 3,500 | 0 | 0% |
| 9 | 4,499 | 4,000 | 0 | 0% |
| 10 | 4,999 | 4,500 | 0 | 0% |
| 11 | 5,499 | 5,000 | 0 | 0% |
| Total: | | | 30 | 100% |

FINAL SURVEY RESULTS SUMMARY

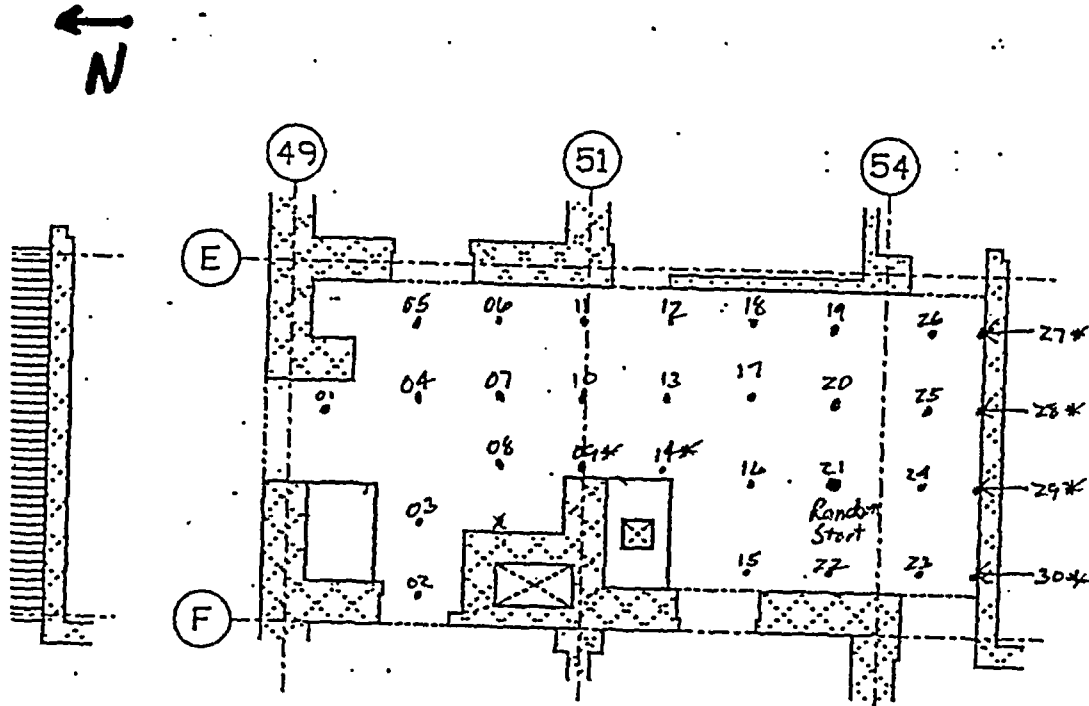
Survey Unit ID Code: S05025D

Classification: Class 1

Survey Unit Name: AB 25' Elevation - Central Hallway Floor

Size (m²): 47

Static Measurement Locations Map



PLAN VIEW OF ROOM 158

S05025D

25' AB Central Hallway Floor

* SURVEY POINTS PICKED BY TEAM LEADER

ARUN ALORICA 2/24/2004
Technician 1 Date

Mark For 2-24-2004
Technician 2 Date

Survey performed IAW RP 452 Rev. 8

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05025E

Classification: Class 1

Survey Unit Name: AB 25' Elevation -

Size (m²): 164

Reciprocating Charging Pump Room Floor and Walls

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|-----------------------|------------|-------------------------|------------|-----|-----|
| 1 | 30 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 6.266e+002
 Maximum Value : 2.813e+003
 Range : 2.186e+003
 Median : 8.962e+002
 Std. Deviation : 6.349e+002
 Mean : 1.228e+003
 95% UCL : 1.424e+003

Measurement Values

| Location | Value | Location | Value |
|----------|------------|----------|------------|
| 000001 | 1.010e+003 | 000018 | 6.266e+002 |
| 000002 | 8.962e+002 | 000019 | 6.949e+002 |
| 000003 | 1.003e+003 | 000020 | 6.418e+002 |
| 000004 | 9.683e+002 | 000021 | 7.595e+002 |
| 000005 | 7.101e+002 | 000022 | 2.813e+003 |
| 000006 | 1.302e+003 | 000023 | 1.790e+003 |
| 000007 | 7.785e+002 | 000024 | 2.140e+003 |
| 000008 | 7.443e+002 | 000025 | 2.095e+003 |
| 000009 | 8.582e+002 | 000026 | 2.210e+003 |
| 000010 | 7.177e+002 | 000027 | 1.968e+003 |
| 000011 | 7.215e+002 | 000028 | 2.070e+003 |
| 000012 | 8.278e+002 | 000029 | 2.013e+003 |
| 000013 | 8.544e+002 | 000030 | 2.095e+003 |
| 000014 | 8.582e+002 | | |
| 000015 | 1.048e+003 | | |
| 000016 | 8.962e+002 | | |
| 000017 | 7.139e+002 | | |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05025E

Classification: Class 1

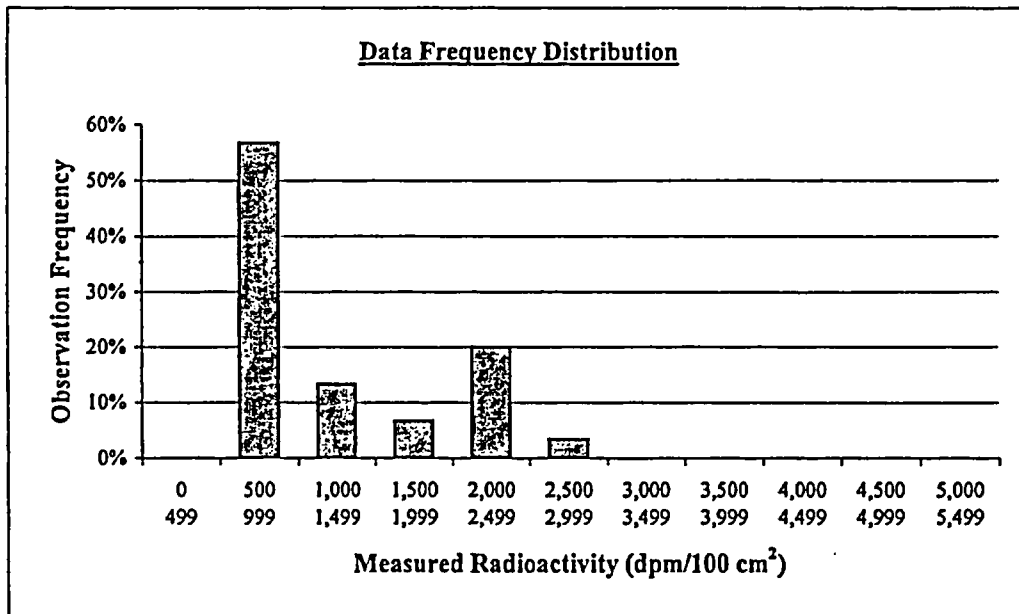
Survey Unit Name: AB 25' Elevation –

Size (m²): 164

Reciprocating Charging Pump Room Floor and Walls

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | | Statistical Quantities | |
|--|------------------|---------------------|-------------------|------------------------|-------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? | Range: | 2,186 |
| Range | 2,186 | 3,175 | Pass | Median: | 896 |
| Median | 0.522 | 0.500 | See comment below | Mean: | 1,228 |
| Mean | 1,228 | 6,000 | Pass | Std Dev: | 635 |
| Std Dev | 635 | 1,500 | Pass | Minimum: | 627 |
| All data less than DCGL; Sign statistical test not required. | | | | Maximum: | 2,813 |
| | | | | DCGL: | 7,500 |



| Plot Parameters | Interval | High End | Low End | Number of Observations | Observation Frequency |
|-------------------------|---------------|----------|---------|------------------------|-----------------------|
| # of measurements: 30 | 1 | 499 | 0 | 0 | 0% |
| # of intervals: 11 | 2 | 999 | 500 | 17 | 57% |
| Interval increment: 500 | 3 | 1,499 | 1,000 | 4 | 13% |
| Minimum: 0 | 4 | 1,999 | 1,500 | 2 | 7% |
| Maximum: 5,499 | 5 | 2,499 | 2,000 | 6 | 20% |
| | 6 | 2,999 | 2,500 | 1 | 3% |
| | 7 | 3,499 | 3,000 | 0 | 0% |
| | 8 | 3,999 | 3,500 | 0 | 0% |
| | 9 | 4,499 | 4,000 | 0 | 0% |
| | 10 | 4,999 | 4,500 | 0 | 0% |
| | 11 | 5,499 | 5,000 | 0 | 0% |
| | Total: | | | 30 | 100% |

Comment:

The data set contains values from both smooth and scabbled concrete surfaces, resulting in an expected bimodal distribution, due to different detector efficiency factors for the 2 geometries.

The test failure does not indicate an invalid data set.

This statistical comparison is not meaningful for the expected bimodal distribution. All measurement values are valid and accepted.

FINAL SURVEY RESULTS SUMMARY

| | |
|---|----------------------------------|
| Survey Unit ID Code: S05025E | Classification: Class 1 |
| Survey Unit Name: AB 25' Elevation – Reciprocating Charging Pump Room Floor and Walls | Size (m²): 164 |

Judgmental and Miscellaneous Measurement Data

| | |
|--|-----------------------------------|
| Measurement Type: Surface Scanning Beta | Scan Coverage (%): 100 |
| Measurement Units: dpm/100cm ² | Investigation Level: 7,500 |
| Minimum Value: 687 | Maximum Value: 28,360 |

| | |
|--|-----------------------------------|
| Measurement Type: Removable Beta | Number of Measurements: 30 |
| Measurement Units: dpm/100cm ² | Investigation Level: 750 |
| Minimum Value: 3 | Maximum Value: 28 |

Discussion of Anomalous Measurement Data

Investigation Summary

Reason for Investigation: Fifteen scan measurements exceeded the investigation level.

Elevated Measurement Comparison (EMC):

| | |
|---|------------------------|
| DCGL (Investigation Level): | 7,500 |
| Measurement Units: | dpm/100cm ² |
| Maximum Value: | 33,900 |
| Size of Area Exceeding DCGL (m²): | 0.945 |
| Size of Survey Unit (m²): | 164 |
| Survey Unit Area >DCGL (%): | 0.58 |
| EMC Value: | 36,750 |

Action Taken: Corrected measurement values for scan locations 159, 166, 171, 174, 175, & 182 per guidance in memo FS-018-03; used similar method for measurements at scan locations 002, 003, 008, 010, & 025 obtained with a 43-68 gas flow proportional detector. Deleted scan results for areas to be remediated. Replaced original scan results in SDMS with the corrected results for the others. Rescanned remediated areas in scan locations 119, 120, 184, & 185. Applied EMC data processing to corrected results that remain elevated.

Basis for Action Taken: Technical basis memorandum FS-018-03 provides guidance for correcting SDMS determined scan results for locations that exceed the investigation level by subtracting instrument background from the field results.

FINAL SURVEY RESULTS SUMMARY

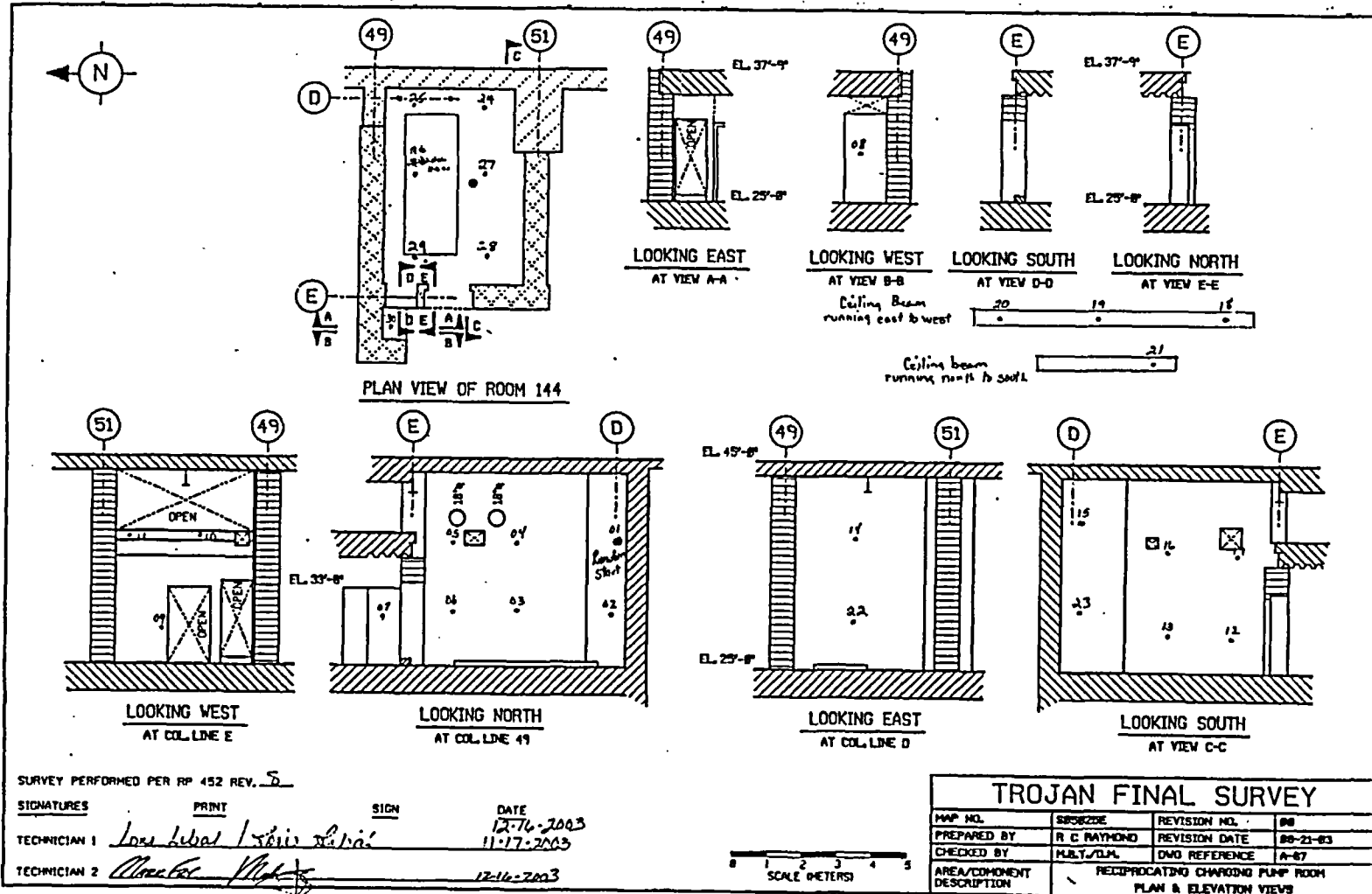
Survey Unit ID Code: S05025E

Survey Unit Name: AB 25' Elevation - Reciprocating Charging Pump Room Floor and Walls

Classification: Class 1

Size (m²): 164

Static Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05025F

Classification: Class 1

Survey Unit Name: AB 25' Elevation -

Size (m²): 134

Sodium Hydroxide Tank Room Floor and Walls

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|-----------------------|------------|-------------------------|------------|-----|-----|
| 1 | 30 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 7.265e+002
 Maximum Value : 2.374e+003
 Range : 1.648e+003
 Median : 8.785e+002
 Std. Deviation : 6.118e+002
 Mean : 1.177e+003
 95% UCL : 1.367e+003

Measurement Values

| Location | Value | Location | Value |
|----------|------------|----------|------------|
| 000001 | 2.295e+003 | 000018 | 8.924e+002 |
| 000002 | 2.374e+003 | 000019 | 8.371e+002 |
| 000003 | 2.255e+003 | 000020 | 9.082e+002 |
| 000004 | 2.196e+003 | 000021 | 7.937e+002 |
| 000005 | 2.335e+003 | 000022 | 9.042e+002 |
| 000006 | 2.163e+003 | 000023 | 8.252e+002 |
| 000007 | 2.216e+003 | 000024 | 8.055e+002 |
| 000008 | 7.581e+002 | 000025 | 9.358e+002 |
| 000009 | 8.292e+002 | 000026 | 8.173e+002 |
| 000010 | 8.489e+002 | 000027 | 9.161e+002 |
| 000011 | 9.397e+002 | 000028 | 7.937e+002 |
| 000012 | 8.489e+002 | 000029 | 8.884e+002 |
| 000013 | 9.437e+002 | 000030 | 8.687e+002 |
| 000014 | 8.252e+002 | | |
| 000015 | 8.173e+002 | | |
| 000016 | 7.265e+002 | | |
| 000017 | 7.660e+002 | | |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05025F

Classification: Class 1

Survey Unit Name: AB 25' Elevation –

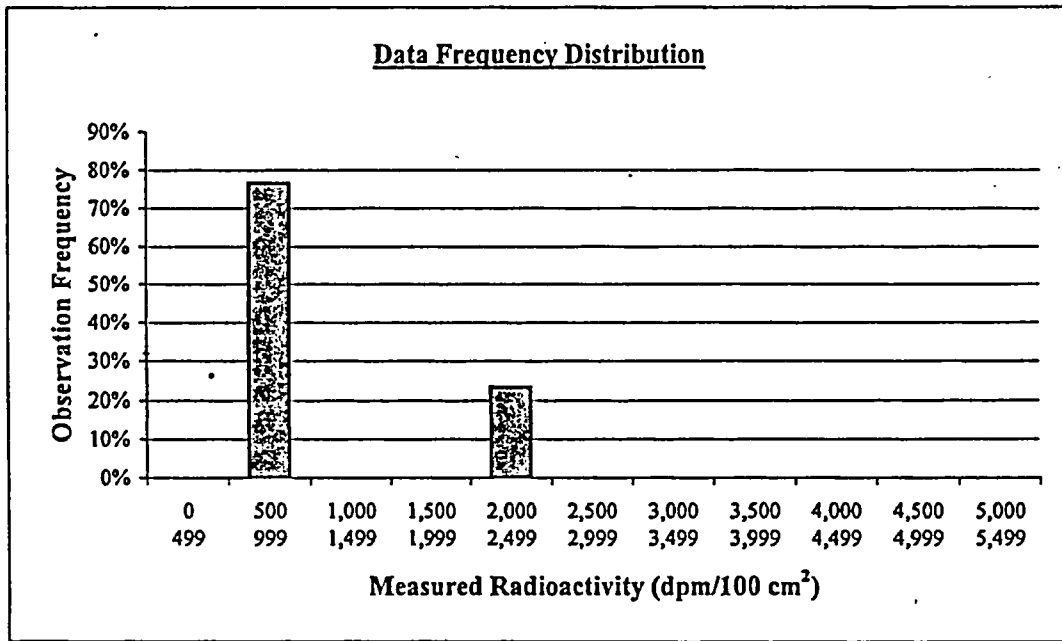
Size (m²): 134

Sodium Hydroxide Tank Room Floor and Walls

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | | Statistical Quantities | |
|-------------------------|------------------|---------------------|-------------|------------------------|-------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? | | |
| Range | 1,647 | 3,059 | Pass | Range: | 1,647 |
| Median | 0.489 | 0.500 | Pass | Median: | 879 |
| Mean | 1,177 | 6,000 | Pass | Mean: | 1,177 |
| Std Dev | 612 | 1,500 | Pass | Std Dev: | 612 |
| | | | | Minimum: | 727 |
| | | | | Maximum: | 2,374 |
| | | | | DCGL: | 7,500 |

All data less than DCGL; Sign statistical test not required.



| Plot Parameters | | Interval | High End | Low End | Number of Observations | Observation Frequency |
|---------------------|-------|----------|----------|---------|------------------------|-----------------------|
| # of measurements: | 30 | 1 | 499 | 0 | 0 | 0% |
| # of intervals: | 11 | 2 | 999 | 500 | 23 | 77% |
| Interval increment: | 500 | 3 | 1,499 | 1,000 | 0 | 0% |
| Minimum: | 0 | 4 | 1,999 | 1,500 | 0 | 0% |
| Maximum: | 5,499 | 5 | 2,499 | 2,000 | 7 | 23% |
| | | 6 | 2,999 | 2,500 | 0 | 0% |
| | | 7 | 3,499 | 3,000 | 0 | 0% |
| | | 8 | 3,999 | 3,500 | 0 | 0% |
| | | 9 | 4,499 | 4,000 | 0 | 0% |
| | | 10 | 4,999 | 4,500 | 0 | 0% |
| | | 11 | 5,499 | 5,000 | 0 | 0% |
| Total: | | | | | 30 | 100% |

Comment:
The data set contains values from both smooth and scabbled concrete surfaces, resulting in an expected bimodal distribution, due to different detector efficiency factors for the 2 geometries.

FINAL SURVEY RESULTS SUMMARY

| | |
|---|----------------------------------|
| Survey Unit ID Code: S05025F | Classification: Class 1 |
| Survey Unit Name: AB 25' Elevation – Sodium Hydroxide Tank Room Floor and Walls | Size (m²): 134 |

Judgmental and Miscellaneous Measurement Data

| | |
|--|-----------------------------------|
| Measurement Type: Surface Scanning Beta | Scan Coverage (%): 100 |
| Measurement Units: dpm/100cm ² | Investigation Level: 7,500 |
| Minimum Value: 736 | Maximum Value: 7,222 |
| | |
| Measurement Type: Removable Beta | Number of Measurements: 30 |
| Measurement Units: dpm/100cm ² | Investigation Level: 750 |
| Minimum Value: 2 | Maximum Value: 19 |

Discussion of Anomalous Measurement Data

Investigation Summary

Reason for Investigation: Two scan measurements exceeded the investigation level.

Elevated Measurement Comparison (EMC):

| | |
|---|------------------------|
| DCGL (Investigation Level): | 7,500 |
| Measurement Units: | dpm/100cm ² |
| Maximum Value: | 7,830 |
| Size of Area Exceeding DCGL (m²): | N/A |
| Size of Survey Unit (m²): | N/A |
| Survey Unit Area >DCGL (%): | N/A |
| EMC Value: | N/A |

Action Taken: Corrected measurement values for scan locations 139 & 142 per guidance in memo FS-018-03. Replaced original scan results in SDMS with these results, all of which corrected to less than the investigation level.

Basis for Action Taken: Technical basis memorandum FS-018-03 provides guidance for correcting SDMS determined scan results for locations that exceed the investigation level by subtracting instrument background from the field results.

FINAL SURVEY RESULTS SUMMARY

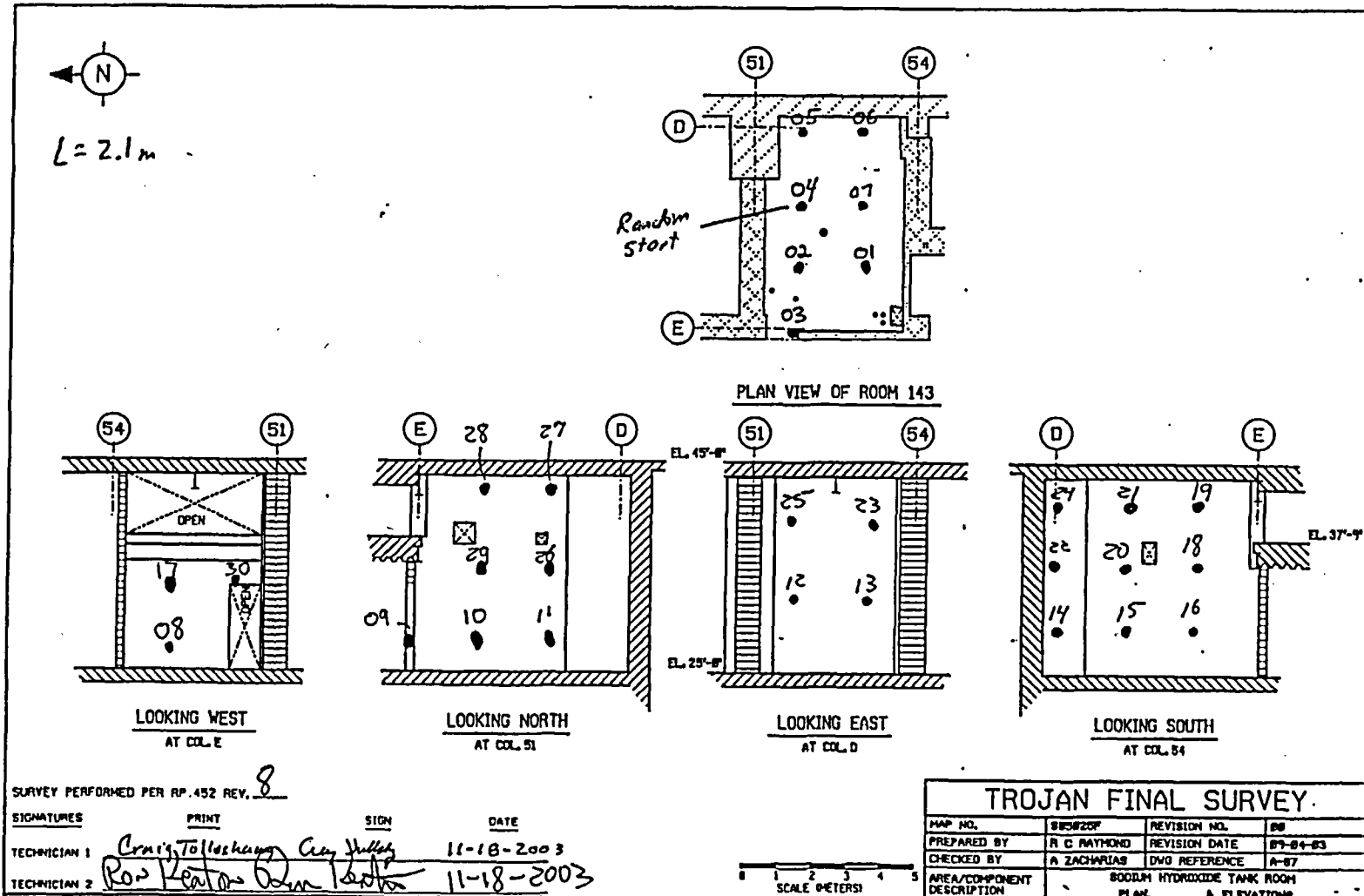
Survey Unit ID Code: S05025F

Survey Unit Name: AB 25' Elevation - Sodium Hydroxide Tank Room Floor and Walls

Classification: Class 1

Size (m²): 134

Static Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05025G
 Survey Unit Name: AB 25' Elevation - East Valve Gallery

Classification: Class 1
 Size (m²): 107

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|-----------------------|------------|-------------------------|------------|-----|-----|
| 1 | 32 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 4.937e+002
 Maximum Value : 2.508e+003
 Range : 2.014e+003
 Median : 8.734e+002
 Std. Deviation : 5.257e+002
 Mean : 1.073e+003
 95% UCL : 1.231e+003

Measurement Values

| Location | Value | Location | Value |
|----------|------------|----------|------------|
| 000001 | 8.696e+002 | 000018 | 4.937e+002 |
| 000002 | 8.354e+002 | 000019 | 8.810e+002 |
| 000003 | 7.557e+002 | 000020 | 9.531e+002 |
| 000004 | 8.430e+002 | 000021 | 8.240e+002 |
| 000005 | 8.658e+002 | 000022 | 8.810e+002 |
| 000006 | 8.848e+002 | 000023 | 8.278e+002 |
| 000007 | 8.810e+002 | 000024 | 8.506e+002 |
| 000008 | 9.911e+002 | 000025 | 8.544e+002 |
| 000009 | 8.354e+002 | 000026 | 9.569e+002 |
| 000010 | 8.772e+002 | 000027 | 8.962e+002 |
| 000011 | 8.316e+002 | 000028 | 2.241e+003 |
| 000012 | 9.000e+002 | 000029 | 2.508e+003 |
| 000013 | 7.899e+002 | 000030 | 2.057e+003 |
| 000014 | 1.006e+003 | 000031 | 2.140e+003 |
| 000015 | 8.126e+002 | 000032 | 2.311e+003 |
| 000016 | 8.658e+002 | | |
| 000017 | 8.164e+002 | | |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05025G

Classification: Class 1

Survey Unit Name: AB 25' Elevation – East Valve Gallery

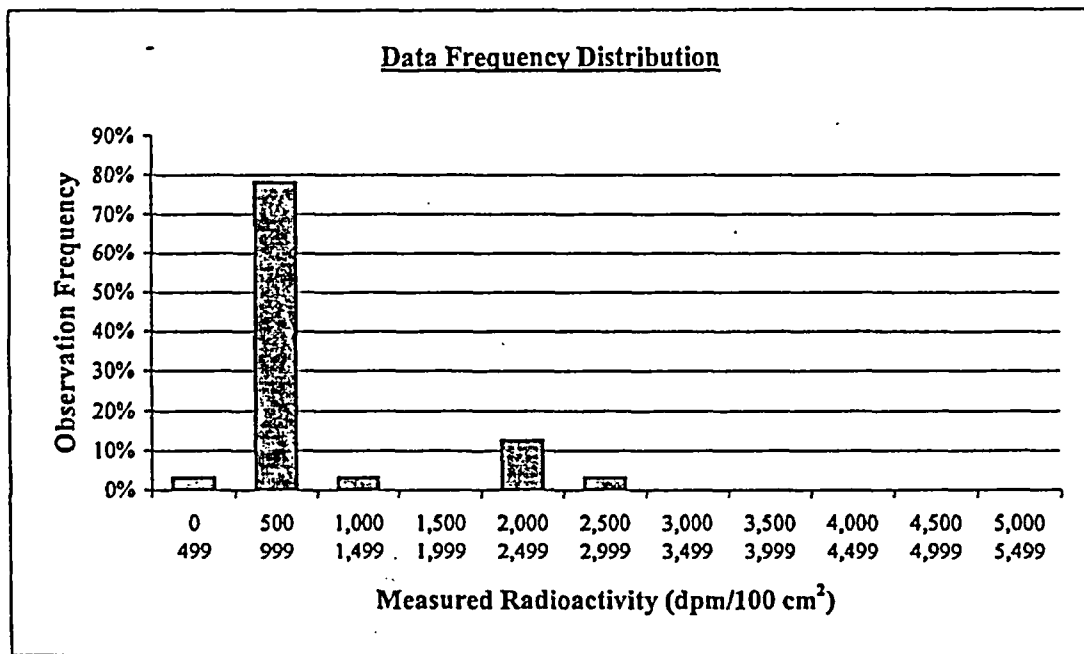
Size (m²): 107

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | |
|-------------------------|------------------|---------------------|-------------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? |
| Range | 2,014 | 2,629 | Pass |
| Median | 0.380 | 0.500 | Pass |
| Mean | 1,073 | 6,000 | Pass |
| Std Dev | 526 | 1,500 | Pass |

| Statistical Quantities | |
|------------------------|-------|
| Range: | 2,014 |
| Median: | 874 |
| Mean: | 1,073 |
| Std Dev: | 526 |
| Minimum: | 494 |
| Maximum: | 2,508 |
| DCGL: | 7,500 |

All data less than DCGL; Sign statistical test not required.



| Plot Parameters | |
|---------------------|-------|
| # of measurements: | 32 |
| # of intervals: | 11 |
| Interval increment: | 500 |
| Minimum: | 0 |
| Maximum: | 5,499 |

| Interval | High End | Low End | Number of Observations | Observation Frequency |
|----------|----------|---------|------------------------|-----------------------|
| 1 | 499 | 0 | 1 | 3% |
| 2 | 999 | 500 | 25 | 78% |
| 3 | 1,499 | 1,000 | 1 | 3% |
| 4 | 1,999 | 1,500 | 0 | 0% |
| 5 | 2,499 | 2,000 | 4 | 13% |
| 6 | 2,999 | 2,500 | 1 | 3% |
| 7 | 3,499 | 3,000 | 0 | 0% |
| 8 | 3,999 | 3,500 | 0 | 0% |
| 9 | 4,499 | 4,000 | 0 | 0% |
| 10 | 4,999 | 4,500 | 0 | 0% |
| 11 | 5,499 | 5,000 | 0 | 0% |
| Total: | | | 32 | 100% |

Comment:

The data set contains values from both smooth and scabbled concrete surfaces, resulting in an expected bimodal distribution, due to different detector efficiency factors for the 2 geometries.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05025G

Classification: Class 1

Survey Unit Name: AB 25' Elevation – East Valve Gallery

Size (m²): 107

Judgmental and Miscellaneous Measurement Data

Measurement Type: Surface Scanning Beta

Scan Coverage (%): 100

Measurement Units: dpm/100cm²

Investigation Level: 7,500

Minimum Value: 816

Maximum Value: 13,090

Measurement Type: Removable Beta

Number of Measurements: 32

Measurement Units: dpm/100cm²

Investigation Level: 750

Minimum Value: 4

Maximum Value: 19

Discussion of Anomalous Measurement Data

Investigation Summary

Reason for Investigation: Two scan measurements exceeded the investigation level.

Elevated Measurement Comparison (EMC):

| | |
|---|------------------------|
| DCGL (Investigation Level): | 7,500 |
| Measurement Units: | dpm/100cm ² |
| Maximum Value: | 13,090 |
| Size of Area Exceeding DCGL (m²): | 0.045 |
| Size of Survey Unit (m²): | 107 |
| Survey Unit Area >DCGL (%): | 0.04 |
| EMC Value: | 36,750 |

Action Taken: Corrected measurement value for scan location 111 per guidance in memo FS-018-03; used similar method for measurement for scan location 062 obtained with a 43-68 gas flow proportional detector. Replaced original scan results in SDMS with the corrected results. Applied EMC data processing to corrected results for scan location 111 that remains elevated.

Basis for Action Taken: Technical basis memorandum FS-018-03 provides guidance for correcting SDMS determined scan results for locations that exceed the investigation level by subtracting instrument background from the field results.

FINAL SURVEY RESULTS SUMMARY

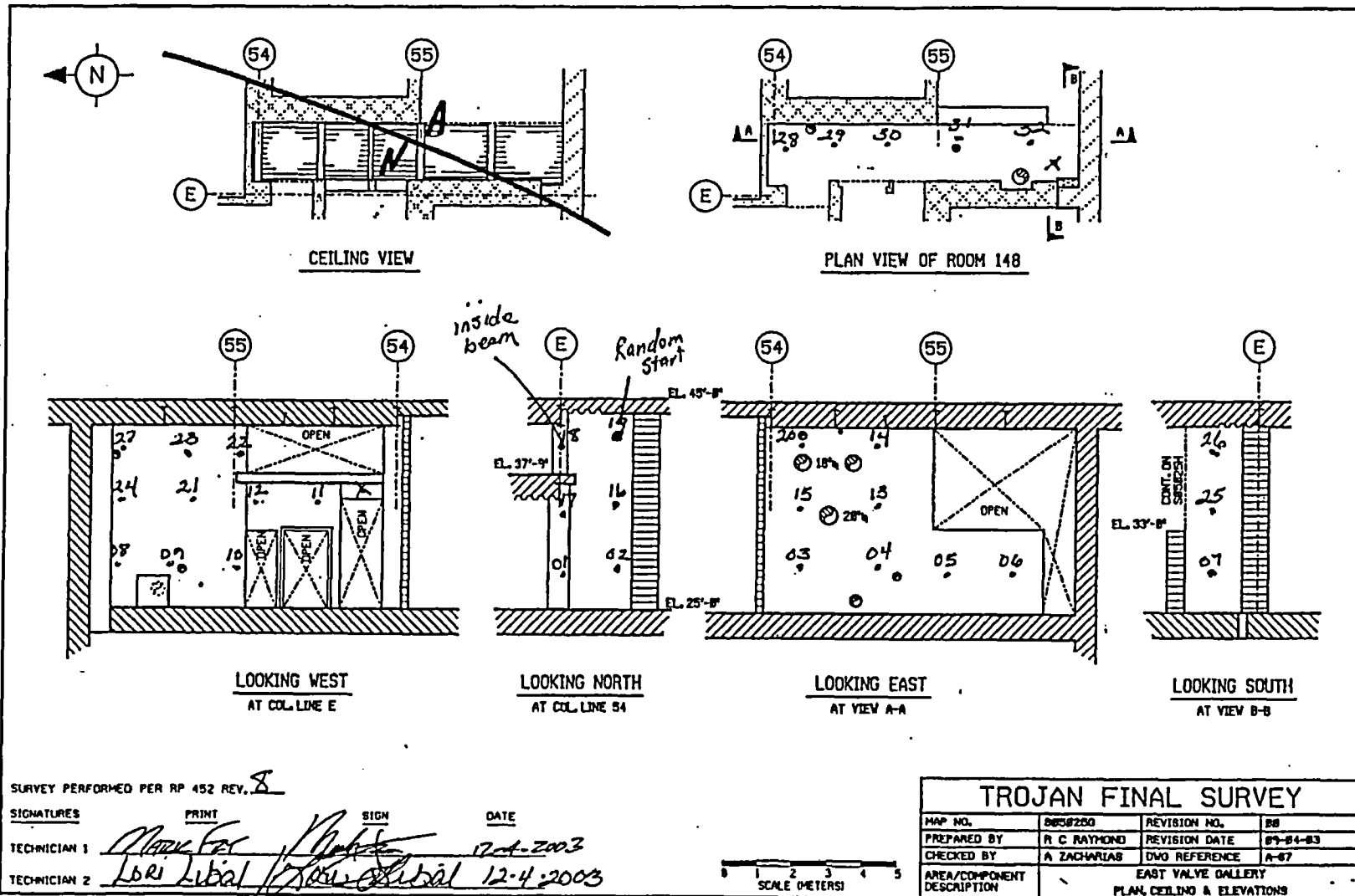
Survey Unit ID Code: S05025G

Survey Unit Name: AB 25' Elevation - East Valve Gallery

Classification: Class 1

Size (m²): 107

Static Measurement Locations Map



SURVEY PERFORMED PER RP 452 REV. 8

| SIGNATURES | PRINT | SIGN | DATE |
|--------------|------------|-------------|-----------|
| TECHNICIAN 1 | Mark Fox | [Signature] | 12-4-2003 |
| TECHNICIAN 2 | Lori Libal | [Signature] | 12-4-2003 |

| TROJAN FINAL SURVEY | | | |
|----------------------------|--|---------------|----------|
| MAP NO. | 2609250 | REVISION NO. | 08 |
| PREPARED BY | R C RAYMOND | REVISION DATE | 09-04-03 |
| CHECKED BY | A ZACHARIAS | DWG REFERENCE | A-07 |
| AREA/COMPONENT DESCRIPTION | EAST VALVE GALLERY PLAN, CEILING & ELEVATIONS | | |



FILE #04 105426

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05025H

Classification: Class 1

Survey Unit Name: AB 25' Elevation -

Size (m²): 110

Reactor Coolant Drain Tank Pump Room

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|-----------------------|------------|-------------------------|------------|-----|-----|
| 1 | 30 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 6.721e+002
 Maximum Value : 2.927e+003
 Range : 2.255e+003
 Median : 1.196e+003
 Std. Deviation : 6.420e+002
 Mean : 1.474e+003
 95% UCL : 1.672e+003

Measurement Values

| Location | Value | Location | Value |
|----------|------------|----------|------------|
| 000001 | 2.076e+003 | 000018 | 1.097e+003 |
| 000002 | 1.981e+003 | 000019 | 1.135e+003 |
| 000003 | 2.025e+003 | 000020 | 9.987e+002 |
| 000004 | 1.975e+003 | 000021 | 9.417e+002 |
| 000005 | 2.248e+003 | 000022 | 1.010e+003 |
| 000006 | 1.898e+003 | 000023 | 1.257e+003 |
| 000007 | 1.917e+003 | 000024 | 1.113e+003 |
| 000008 | 1.867e+003 | 000025 | 1.458e+003 |
| 000009 | 1.816e+003 | 000026 | 1.086e+003 |
| 000010 | 1.644e+003 | 000027 | 9.038e+002 |
| 000011 | 7.595e+002 | 000028 | 7.709e+002 |
| 000012 | 8.544e+002 | 000029 | 2.927e+003 |
| 000013 | 8.316e+002 | 000030 | 2.927e+003 |
| 000014 | 9.076e+002 | | |
| 000015 | 6.721e+002 | | |
| 000016 | 8.962e+002 | | |
| 000017 | 2.214e+003 | | |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05025H

Classification: Class 1

Survey Unit Name: AB 25' Elevation -

Size (m²): 110

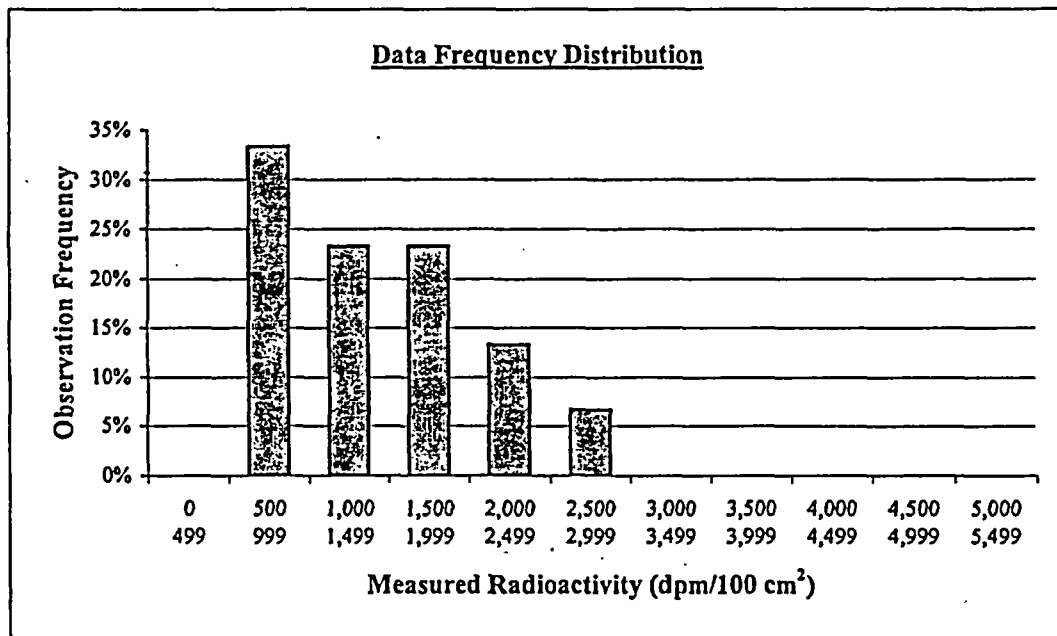
Reactor Coolant Drain Tank Pump Room

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | |
|-------------------------|------------------|---------------------|-------------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? |
| Range | 2,255 | 3,210 | Pass |
| Median | 0.432 | 0.500 | Pass |
| Mean | 1,474 | 6,000 | Pass |
| Std Dev | 642 | 1,500 | Pass |

| Statistical Quantities | |
|------------------------|-------|
| Range: | 2,255 |
| Median: | 1,196 |
| Mean: | 1,474 |
| Std Dev: | 642 |
| Minimum: | 672 |
| Maximum: | 2,927 |
| DCGL: | 7,500 |

All data less than DCGL; Sign statistical test not required.



| Plot Parameters | |
|---------------------|-------|
| # of measurements: | 30 |
| # of intervals: | 11 |
| Interval increment: | 500 |
| Minimum: | 0 |
| Maximum: | 5,499 |

Comment:
None.

| Interval | High End | Low End | Number of Observations | Observation Frequency |
|----------|----------|---------|------------------------|-----------------------|
| 1 | 499 | 0 | 0 | 0% |
| 2 | 999 | 500 | 10 | 33% |
| 3 | 1,499 | 1,000 | 7 | 23% |
| 4 | 1,999 | 1,500 | 7 | 23% |
| 5 | 2,499 | 2,000 | 4 | 13% |
| 6 | 2,999 | 2,500 | 2 | 7% |
| 7 | 3,499 | 3,000 | 0 | 0% |
| 8 | 3,999 | 3,500 | 0 | 0% |
| 9 | 4,499 | 4,000 | 0 | 0% |
| 10 | 4,999 | 4,500 | 0 | 0% |
| 11 | 5,499 | 5,000 | 0 | 0% |
| Total: | | | 30 | 100% |

FINAL SURVEY RESULTS SUMMARY

| | |
|---|----------------------------------|
| Survey Unit ID Code: S05025H | Classification: Class 1 |
| Survey Unit Name: AB 25' Elevation – Reactor Coolant Drain Tank Pump Room | Size (m²): 110 |

Judgmental and Miscellaneous Measurement Data

| | |
|--|-----------------------------------|
| Measurement Type: Surface Scanning Beta | Scan Coverage (%): 100 |
| Measurement Units: dpm/100cm ² | Investigation Level: 7,500 |
| Minimum Value: 953 | Maximum Value: 12,160 |

| | |
|--|-----------------------------------|
| Measurement Type: Removable Beta | Number of Measurements: 30 |
| Measurement Units: dpm/100cm ² | Investigation Level: 750 |
| Minimum Value: 0 | Maximum Value: 37 |

Discussion of Anomalous Measurement Data

Investigation Summary

Reason for Investigation: Ten scan measurements exceeded the investigation level.

Elevated Measurement Comparison (EMC):

| | |
|--|------------------------|
| DCGL (Investigation Level): | 7,500 |
| Measurement Units: | dpm/100cm ² |
| Maximum Value: | 43,237 |
| Size of Area Exceeding DCGL (m ²): | 0.143 |
| Size of Survey Unit (m ²): | 110 |
| Survey Unit Area >DCGL (%): | 0.13 |
| EMC Value: | 36,750 |

Action Taken: Corrected measurement values for scan locations 090, 094, 095, 098, 099, & 101 per guidance in memo FS-018-03; used similar method for measurements for scan locations 045 & 060 obtained with a 43-68 gas flow proportional detector. Deleted scan results for scan location 103 to be remediated. Replaced original scan results in SDMS with the corrected results for the others. Rescanned remediated area in scan location 103. Applied EMC data processing to corrected results for scan locations 090, 095, 098, & 101 that remain elevated.

Basis for Action Taken: Technical basis memorandum FS-018-03 provides guidance for correcting SDMS determined scan results for locations that exceed the investigation level by subtracting instrument background from the field results.

FINAL SURVEY RESULTS SUMMARY

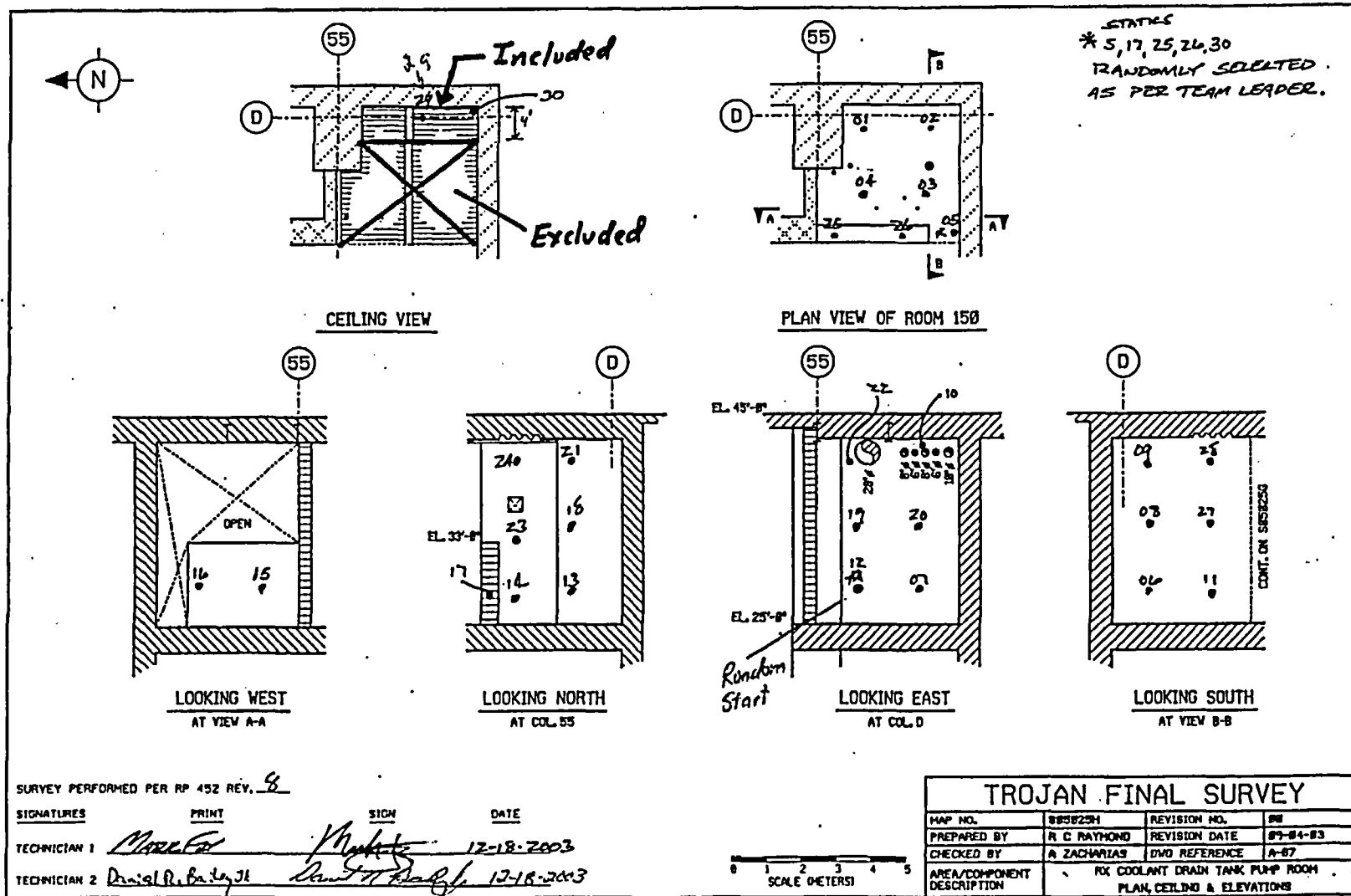
Survey Unit ID Code: S05025H

Survey Unit Name: AB 25' Elevation - Reactor Coolant Drain Tank Pump Room

Classification: Class 1

Size (m²): 110

Static Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05025J

Classification: Class 1

Survey Unit Name: AB 25' Elevation -

Size (m²): 162

West Valve Gallery/BIT Rooms Floors and Walls

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|-----------------------|------------|-------------------------|------------|-----|-----|
| 1 | 36 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 6.555e+002
 Maximum Value : 4.390e+003
 Range : 3.735e+003
 Median : 1.119e+003
 Std. Deviation : 1.051e+003
 Mean : 1.595e+003
 95% UCL : 1.891e+003

Measurement Values

| Location | Value | Location | Value | Location | Value |
|----------|------------|----------|------------|----------|------------|
| 000001 | 2.037e+003 | 000018 | 6.633e+002 | 000035 | 4.228e+003 |
| 000002 | 1.898e+003 | 000019 | 7.976e+002 | 000036 | 4.390e+003 |
| 000003 | 2.269e+003 | 000020 | 1.137e+003 | | |
| 000004 | 2.705e+003 | 000021 | 1.117e+003 | | |
| 000005 | 2.745e+003 | 000022 | 6.555e+002 | | |
| 000006 | 1.892e+003 | 000023 | 8.726e+002 | | |
| 000007 | 1.944e+003 | 000024 | 7.344e+002 | | |
| 000008 | 1.918e+003 | 000025 | 8.094e+002 | | |
| 000009 | 2.017e+003 | 000026 | 8.055e+002 | | |
| 000010 | 2.163e+003 | 000027 | 7.818e+002 | | |
| 000011 | 2.083e+003 | 000028 | 7.739e+002 | | |
| 000012 | 2.176e+003 | 000029 | 9.003e+002 | | |
| 000013 | 2.097e+003 | 000030 | 7.897e+002 | | |
| 000014 | 1.121e+003 | 000031 | 9.516e+002 | | |
| 000015 | 6.712e+002 | 000032 | 7.423e+002 | | |
| 000016 | 6.870e+002 | 000033 | 8.489e+002 | | |
| 000017 | 7.700e+002 | 000034 | 4.228e+003 | | |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05025J

Classification: Class 1

Survey Unit Name: AB 25' Elevation -

Size (m²): 162

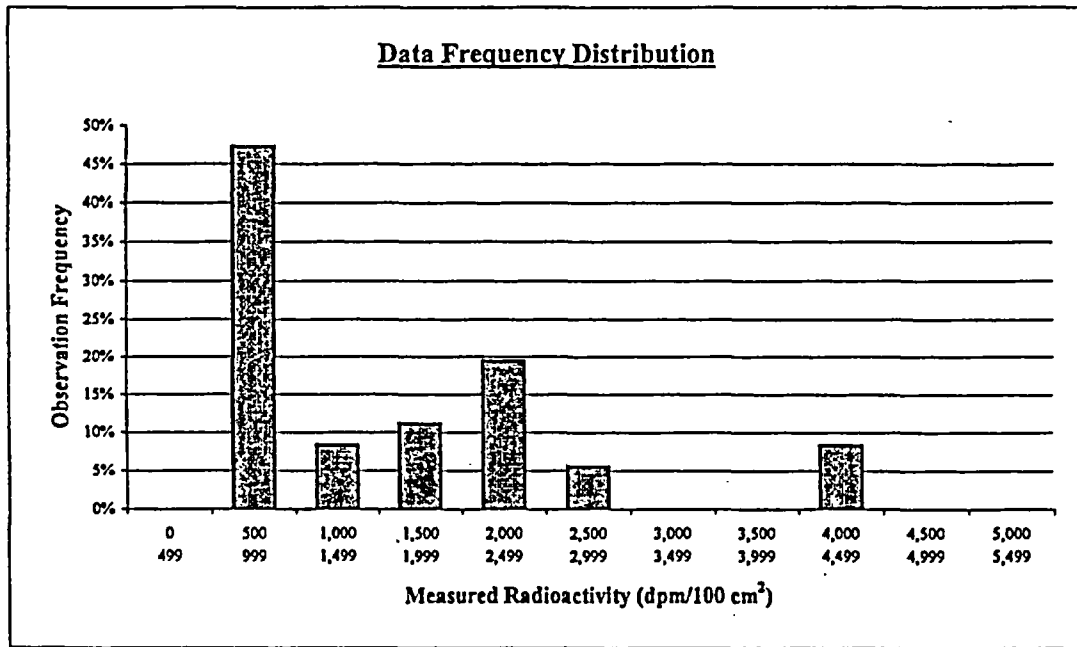
West Valve Gallery/BIT Rooms Floors and Walls

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | |
|-------------------------|------------------|---------------------|-------------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? |
| Range | 3,735 | 5,257 | Pass |
| Median | 0.453 | 0.500 | Pass |
| Mean | 1,595 | 6,000 | Pass |
| Std Dev | 1,051 | 1,500 | Pass |

| Statistical Quantities | |
|------------------------|-------|
| Range: | 3,735 |
| Median: | 1,119 |
| Mean: | 1,595 |
| Std Dev: | 1,051 |
| Minimum: | 656 |
| Maximum: | 4,390 |
| DCGL: | 7,500 |

All data less than DCGL; Sign statistical test not required.



| Plot Parameters | |
|---------------------|-------|
| # of measurements: | 36 |
| # of intervals: | 11 |
| Interval increment: | 500 |
| Minimum: | 0 |
| Maximum: | 5,499 |

| Interval | High End | Low End | Number of Observations | Observation Frequency |
|----------|----------|---------|------------------------|-----------------------|
| 1 | 499 | 0 | 0 | 0% |
| 2 | 999 | 500 | 17 | 47% |
| 3 | 1,499 | 1,000 | 3 | 8% |
| 4 | 1,999 | 1,500 | 4 | 11% |
| 5 | 2,499 | 2,000 | 7 | 19% |
| 6 | 2,999 | 2,500 | 2 | 6% |
| 7 | 3,499 | 3,000 | 0 | 0% |
| 8 | 3,999 | 3,500 | 0 | 0% |
| 9 | 4,499 | 4,000 | 3 | 8% |
| 10 | 4,999 | 4,500 | 0 | 0% |
| 11 | 5,499 | 5,000 | 0 | 0% |
| Total: | | | 36 | 100% |

Comment:

The data set contains values from both smooth and scabbled concrete surfaces, resulting in an expected bimodal distribution, due to different detector efficiency factors for the 2 geometries.

FINAL SURVEY RESULTS SUMMARY

| | |
|--|----------------------------------|
| Survey Unit ID Code: S05025J | Classification: Class 1 |
| Survey Unit Name: AB 25' Elevation – West Valve Gallery/BIT Rooms Floors and Walls | Size (m²): 162 |

Judgmental and Miscellaneous Measurement Data

| | |
|--|-----------------------------------|
| Measurement Type: Surface Scanning Beta | Scan Coverage (%): 100 |
| Measurement Units: dpm/100cm ² | Investigation Level: 7,500 |
| Minimum Value: 937 | Maximum Value: 18,360 |

| | |
|--|-----------------------------------|
| Measurement Type: Removable Beta | Number of Measurements: 36 |
| Measurement Units: dpm/100cm ² | Investigation Level: 750 |
| Minimum Value: 2 | Maximum Value: 28 |

Discussion of Anomalous Measurement Data

Investigation Summary

Reason for Investigation: Forty-four scan measurements exceeded the investigation level.

Elevated Measurement Comparison (EMC):

| | |
|--|------------------------|
| DCGL (Investigation Level): | 7,500 |
| Measurement Units: | dpm/100cm ² |
| Maximum Value: | 131,300 |
| Size of Area Exceeding DCGL (m ²): | 2.1 |
| Size of Survey Unit (m ²): | 162 |
| Survey Unit Area >DCGL (%): | 1.3 |
| EMC Value: | 36,750 |

Action Taken: Corrected measurement values for scan locations per guidance in memo FS-018-03; used similar method for measurements obtained with a 43-68 gas flow proportional detector. Deleted scan results for scan locations to be remediated. Replaced original scan results in SDMS with the corrected results for the others. Rescanned remediated areas. Applied EMC data processing to corrected results for scan locations that remain elevated.

Basis for Action Taken: Technical basis memorandum FS-018-03 provides guidance for correcting SDMS determined scan results for locations that exceed the investigation level by subtracting instrument background from the field results.

FINAL SURVEY RESULTS SUMMARY

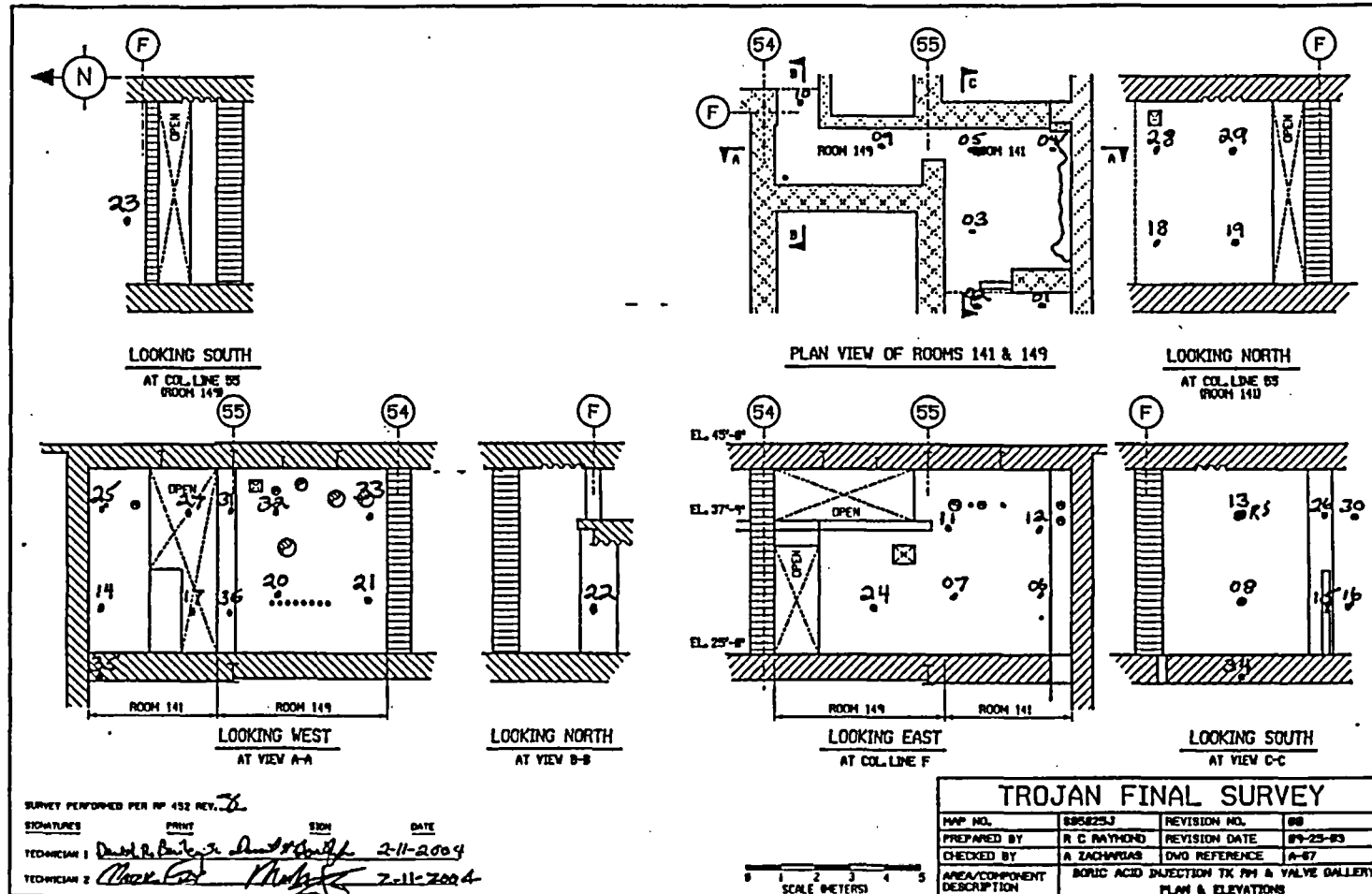
Survey Unit ID Code: S05025J

Survey Unit Name: AB 25' Elevation - West Valve Gallery/BIT Rooms Floors and Walls

Classification: Class 1

Size (m²): 162

Static Measurement Locations Map



L = 7'6" (2.3m)
RS - Random Start

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05025K

Classification: Class 1

Survey Unit Name: AB 25' Elevation -

Size (m²): 155

South "A" CCP Room Floors and Walls

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|-----------------------|------------|-------------------------|------------|-----|-----|
| 1 | 31 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 6.721e+002
 Maximum Value : 2.349e+003
 Range : 1.677e+003
 Median : 8.354e+002
 Std. Deviation : 5.043e+002
 Mean : 1.062e+003
 95% UCL : 1.215e+003

Measurement Values

| Location | Value | Location | Value |
|----------|------------|----------|------------|
| 000001 | 2.184e+003 | 000018 | 8.202e+002 |
| 000002 | 1.429e+003 | 000019 | 7.861e+002 |
| 000003 | 1.949e+003 | 000020 | 9.759e+002 |
| 000004 | 1.924e+003 | 000021 | 9.797e+002 |
| 000005 | 2.349e+003 | 000022 | 7.974e+002 |
| 000006 | 2.171e+003 | 000023 | 1.409e+003 |
| 000007 | 6.721e+002 | 000024 | 8.354e+002 |
| 000008 | 6.797e+002 | 000025 | 8.658e+002 |
| 000009 | 9.190e+002 | 000026 | 8.772e+002 |
| 000010 | 7.595e+002 | 000027 | 7.063e+002 |
| 000011 | 7.747e+002 | 000028 | 7.481e+002 |
| 000012 | 9.152e+002 | 000029 | 7.519e+002 |
| 000013 | 7.937e+002 | 000030 | 8.354e+002 |
| 000014 | 8.202e+002 | 000031 | 7.101e+002 |
| 000015 | 7.063e+002 | | |
| 000016 | 9.911e+002 | | |
| 000017 | 7.709e+002 | | |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05025K

Classification: Class 1

Survey Unit Name: AB 25' Elevation -

Size (m²): 155

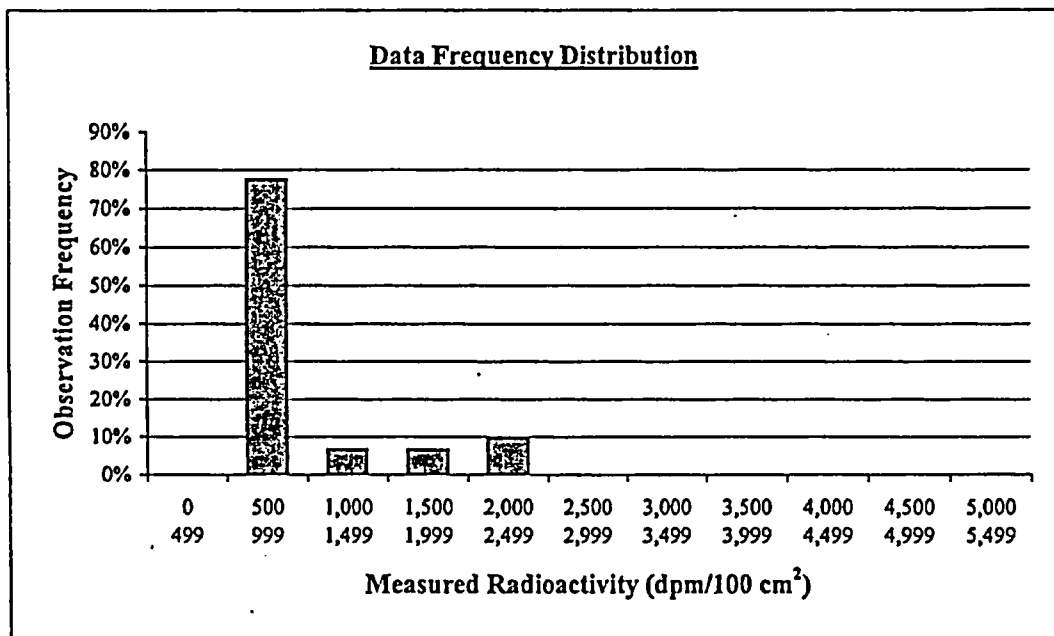
South "A" CCP Room Floors and Walls

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | |
|-------------------------|------------------|---------------------|-------------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? |
| Range | 1,677 | 2,522 | Pass |
| Median | 0.449 | 0.500 | Pass |
| Mean | 1,061 | 6,000 | Pass |
| Std Dev | 504 | 1,500 | Pass |

| Statistical Quantities | |
|------------------------|-------|
| Range: | 1,677 |
| Median: | 835 |
| Mean: | 1,061 |
| Std Dev: | 504 |
| Minimum: | 672 |
| Maximum: | 2,349 |
| DCGL: | 7,500 |

All data less than DCGL; Sign statistical test not required.



| Plot Parameters | |
|---------------------|-------|
| # of measurements: | 31 |
| # of intervals: | 11 |
| Interval increment: | 500 |
| Minimum: | 0 |
| Maximum: | 5,499 |

| Interval | High End | Low End | Number of Observations | Observation Frequency |
|----------|----------|---------|------------------------|-----------------------|
| 1 | 499 | 0 | 0 | 0% |
| 2 | 999 | 500 | 24 | 77% |
| 3 | 1,499 | 1,000 | 2 | 6% |
| 4 | 1,999 | 1,500 | 2 | 6% |
| 5 | 2,499 | 2,000 | 3 | 10% |
| 6 | 2,999 | 2,500 | 0 | 0% |
| 7 | 3,499 | 3,000 | 0 | 0% |
| 8 | 3,999 | 3,500 | 0 | 0% |
| 9 | 4,499 | 4,000 | 0 | 0% |
| 10 | 4,999 | 4,500 | 0 | 0% |
| 11 | 5,499 | 5,000 | 0 | 0% |
| Total: | | | 31 | 100% |

Comment:
NONE

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05025K **Classification:** Class 1
Survey Unit Name: AB 25' Elevation – **Size (m²):** 155
 South "A" CCP Room Floors and Walls

Judgmental and Miscellaneous Measurement Data

Measurement Type: Surface Scanning Beta **Scan Coverage (%):** 100
Measurement Units: dpm/100cm² **Investigation Level:** 7,500
Minimum Value: 553 **Maximum Value:** 7,450

Measurement Type: Removable Beta **Number of Measurements:** 31
Measurement Units: dpm/100cm² **Investigation Level:** 750
Minimum Value: 3 **Maximum Value:** 18

Discussion of Anomalous Measurement Data

Investigation Summary

Reason for Investigation: Four scan measurements exceeded the investigation level.

Elevated Measurement Comparison (EMC):

| | |
|---|------------------------|
| DCGL (Investigation Level): | 7,500 |
| Measurement Units: | dpm/100cm ² |
| Maximum Value: | 8,899 |
| Size of Area Exceeding DCGL (m²): | N/A |
| Size of Survey Unit (m²): | N/A |
| Survey Unit Area >DCGL (%): | N/A |
| EMC Value: | N/A |

Action Taken: Corrected measurement values for scan locations 144, 151, 153, & 155 per guidance in memo FS-018-03. Replaced original scan results in SDMS with these results, all of which corrected to less than the investigation level. Deleted results for scan location 135.

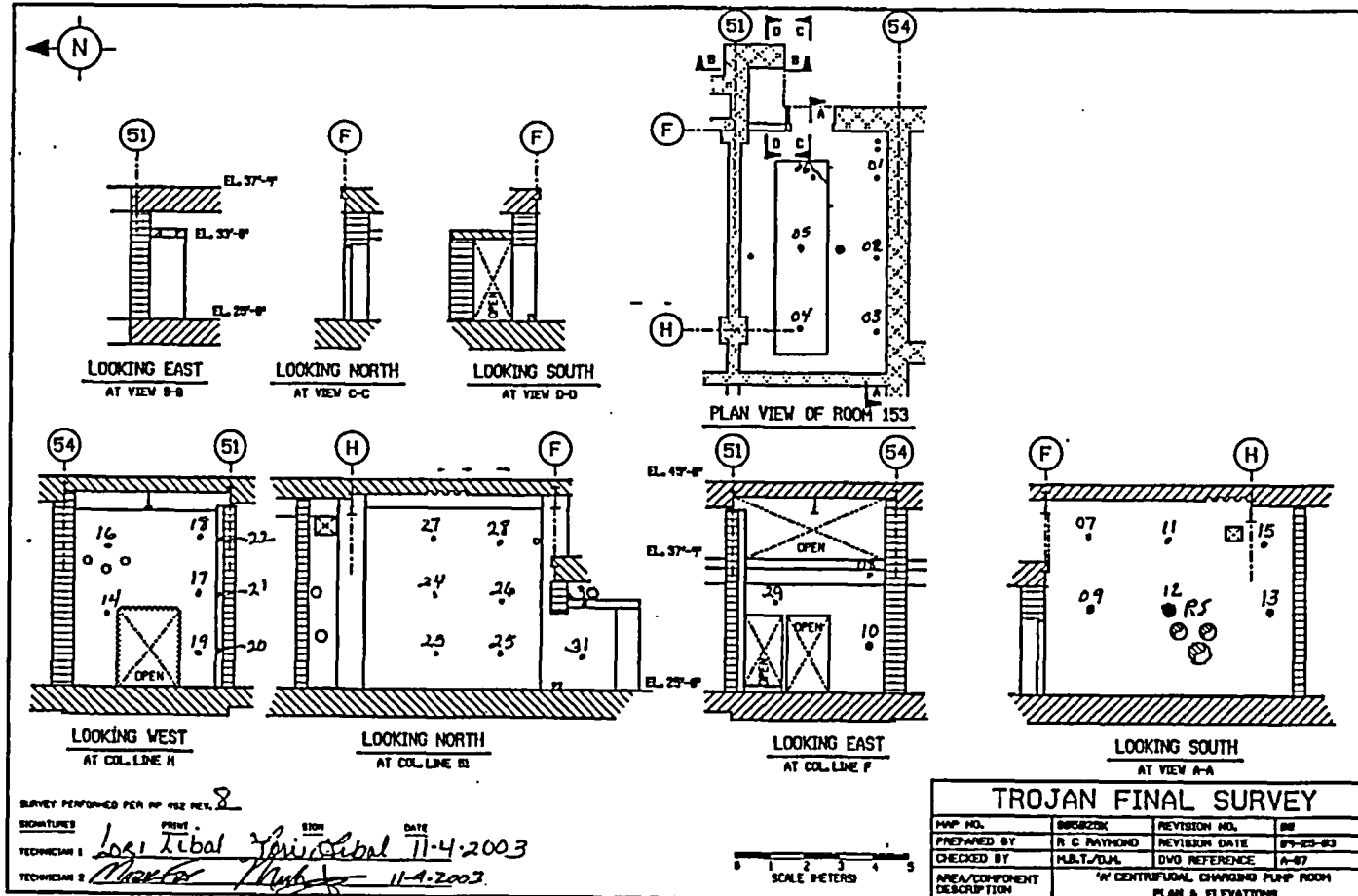
Basis for Action Taken: Technical basis memorandum FS-018-03 provides guidance for correcting SDMS determined scan results for locations that exceed the investigation level by subtracting instrument background from the field results. Scan location 135 was obtained from an area included in an embedded piping survey unit.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05025K
 Survey Unit Name: AB 25' Elevation - South "A" CCP Room Floors and Walls

Classification: Class 1
 Size (m²): 155

Static Measurement Locations Map



L = 7' 6" (2.3m)

RS - Random Start

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05025L

Classification: Class 1

Survey Unit Name: AB 25' Elevation -

Size (m²): 65

North "B" CCP Room Floors and Lower Walls

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|--------------------------|---------------|-------------------------|------------|-----|-----|
| 1 | 36 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 7.405e+002
 Maximum Value : 2.413e+003
 Range : 1.673e+003
 Median : 8.905e+002
 Std. Deviation : 6.061e+002
 Mean : 1.269e+003
 95% UCL : 1.440e+003

Measurement Values

| Location | Value | Location | Value | Location | Value |
|----------|------------|----------|------------|----------|------------|
| 000001 | 2.413e+003 | 000018 | 7.937e+002 | 000035 | 8.658e+002 |
| 000002 | 2.146e+003 | 000019 | 8.202e+002 | 000036 | 7.557e+002 |
| 000003 | 1.930e+003 | 000020 | 8.734e+002 | | |
| 000004 | 2.267e+003 | 000021 | 8.924e+002 | | |
| 000005 | 2.184e+003 | 000022 | 8.696e+002 | | |
| 000006 | 2.038e+003 | 000023 | 8.658e+002 | | |
| 000007 | 2.089e+003 | 000024 | 8.620e+002 | | |
| 000008 | 1.949e+003 | 000025 | 8.164e+002 | | |
| 000009 | 2.038e+003 | 000026 | 7.405e+002 | | |
| 000010 | 2.133e+003 | 000027 | 8.164e+002 | | |
| 000011 | 1.943e+003 | 000028 | 8.164e+002 | | |
| 000012 | 2.127e+003 | 000029 | 9.304e+002 | | |
| 000013 | 9.038e+002 | 000030 | 8.240e+002 | | |
| 000014 | 8.164e+002 | 000031 | 8.126e+002 | | |
| 000015 | 8.240e+002 | 000032 | 8.886e+002 | | |
| 000016 | 9.797e+002 | 000033 | 8.126e+002 | | |
| 000017 | 9.645e+002 | 000034 | 9.000e+002 | | |

FINAL SURVEY RESULTS SUMMARY

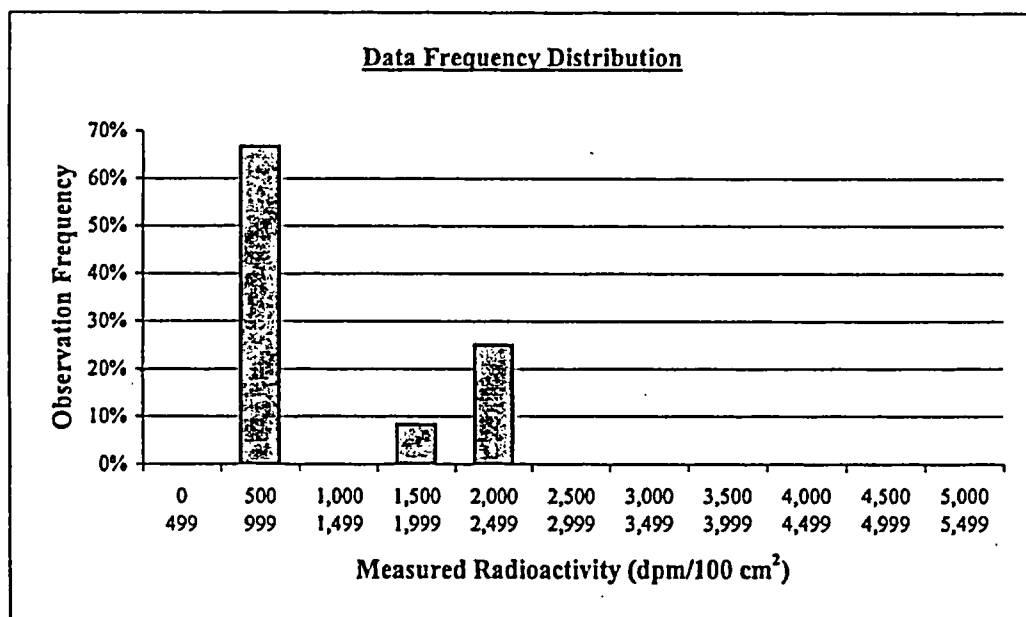
Survey Unit ID Code: S05025L
 Survey Unit Name: AB 25' Elevation –
 North "B" CCP Room Floors and Lower Walls

Classification: Class 1
 Size (m²): 65

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | | Statistical Quantities | |
|-------------------------|------------------|---------------------|-------------------|------------------------|-------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? | Range: | 1,672 |
| Range | 1,672 | 3,031 | Pass | Median: | 891 |
| Median | 0.625 | 0.500 | See comment below | Mean: | 1,270 |
| Mean | 1,270 | 6,000 | Pass | Std Dev: | 606 |
| Std Dev | 606 | 1,500 | Pass | Minimum: | 741 |
| | | | | Maximum: | 2,413 |
| | | | | DCGL: | 7,500 |

All data less than DCGL; Sign statistical test not required.



| Plot Parameters | Interval | High End | Low End | Number of Observations | Observation Frequency |
|---------------------|---------------|----------|---------|------------------------|-----------------------|
| # of measurements: | 1 | 499 | 0 | 0 | 0% |
| # of intervals: | 2 | 999 | 500 | 24 | 67% |
| Interval increment: | 3 | 1,499 | 1,000 | 0 | 0% |
| Minimum: | 4 | 1,999 | 1,500 | 3 | 8% |
| Maximum: | 5 | 2,499 | 2,000 | 9 | 25% |
| | 6 | 2,999 | 2,500 | 0 | 0% |
| | 7 | 3,499 | 3,000 | 0 | 0% |
| | 8 | 3,999 | 3,500 | 0 | 0% |
| | 9 | 4,499 | 4,000 | 0 | 0% |
| | 10 | 4,999 | 4,500 | 0 | 0% |
| | 11 | 5,499 | 5,000 | 0 | 0% |
| | Total: | | | 36 | 100% |

Comment:

The data set contains values from both smooth and scabbled concrete surfaces, resulting in an expected bimodal distribution, due to different detector efficiency factors for the 2 geometries. The test failure does not represent an invalid data set. This statistical comparison is not meaningful for an expected bimodal distribution. All measurement values are valid and accepted.

FINAL SURVEY RESULTS SUMMARY

| | |
|--|---------------------------------|
| Survey Unit ID Code: S05025L | Classification: Class 1 |
| Survey Unit Name: AB 25' Elevation – North “B” CCP Room Floors and Lower Walls | Size (m²): 65 |

Judgmental and Miscellaneous Measurement Data

| | |
|--|-----------------------------------|
| Measurement Type: Surface Scanning Beta | Scan Coverage (%): 100 |
| Measurement Units: dpm/100cm ² | Investigation Level: 7,500 |
| Minimum Value: 853 | Maximum Value: 20,360 |

| | |
|--|-----------------------------------|
| Measurement Type: Removable Beta | Number of Measurements: 36 |
| Measurement Units: dpm/100cm ² | Investigation Level: 750 |
| Minimum Value: 4 | Maximum Value: 18 |

Discussion of Anomalous Measurement Data

Investigation Summary

Reason for Investigation: Two scan measurements exceeded the investigation level.

Elevated Measurement Comparison (EMC):

| | |
|---|------------------------|
| DCGL (Investigation Level): | 7,500 |
| Measurement Units: | dpm/100cm ² |
| Maximum Value: | 20,360 |
| Size of Area Exceeding DCGL (m²): | 0.016 |
| Size of Survey Unit (m²): | 65 |
| Survey Unit Area >DCGL (%): | 0.02 |
| EMC Value: | 36,750 |

Action Taken: Applied EMC data processing to scan location 093. Deleted result for scan location 058.

Basis for Action Taken: Very small, localized area of elevated radioactivity identified during scan survey is less than 1 m². Scan location 058 is inside of a floor drain bowl which belongs to an embedded piping survey unit.

FINAL SURVEY RESULTS SUMMARY

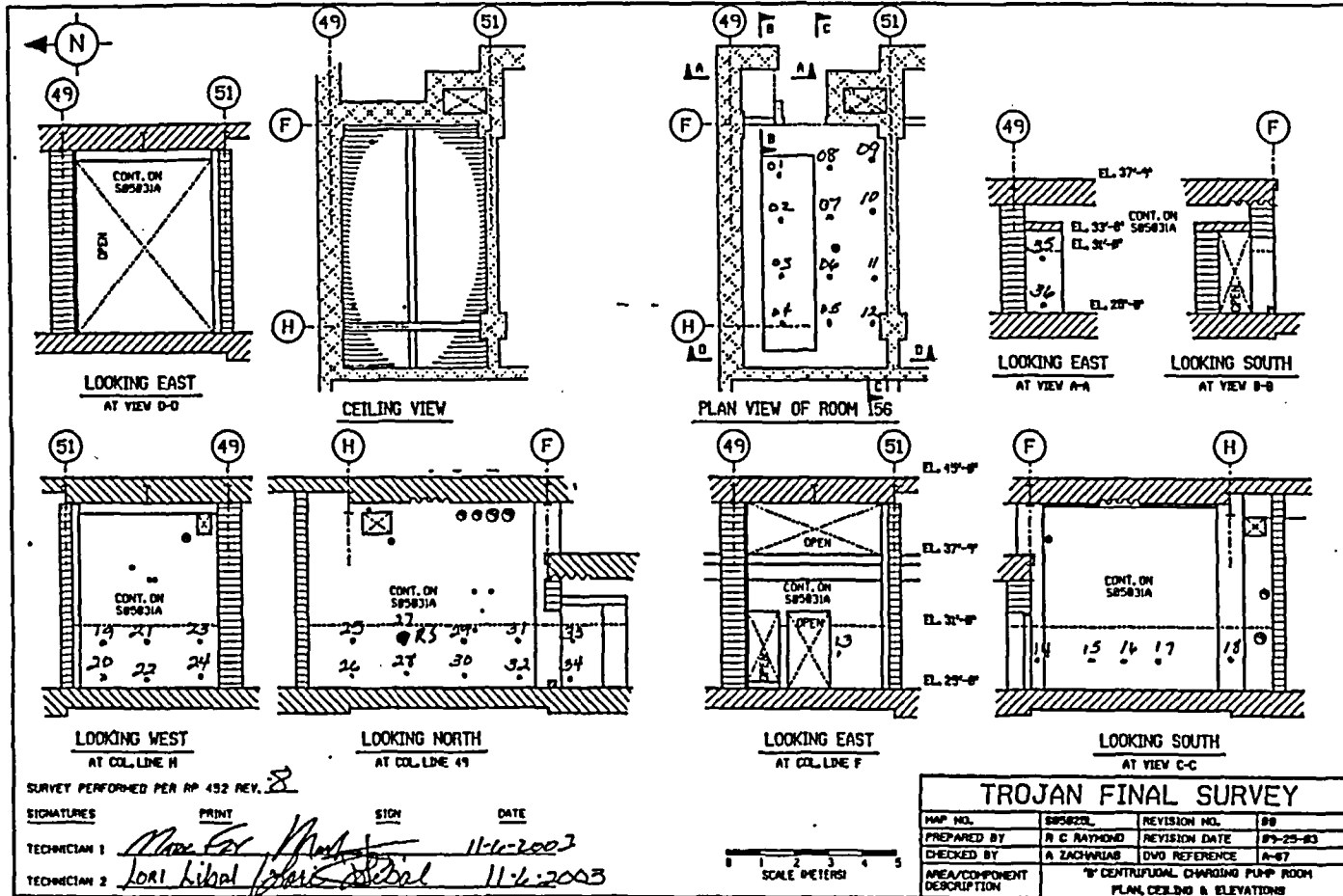
Survey Unit ID Code: S05025L

Survey Unit Name: AB 25' Elevation - North "B" CCP Room Floors and Lower Walls

Classification: Class 1

Size (m²): 65

Static Measurement Locations Map



L = 4'11" (1.5m)

RS - Random Start

FINAL SURVEY RESULTS SUMMARY

| | |
|---|----------------------------|
| Survey Unit ID Code: S05025M | Classification: Class 1 |
| Survey Unit Name: AB 25' Elevation - | Size (m ²): 94 |
| CWDT and Pump Rooms, Floors and Lower Walls | |

Data Quality Values

| | | | |
|----------------|--------------|--------------|--------------|
| Type 1 Error | : 5.000e-002 | Type 2 Error | : 5.000e-002 |
| Relative Shift | : 3.000e+000 | | |

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|--------------------------|---------------|-------------------------|------------|-----|-----|
| 1 | 34 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

| | |
|-------------------|--------------|
| Measurement Name: | |
| Minimum Value | : 7.025e+002 |
| Maximum Value | : 2.330e+003 |
| Range | : 1.628e+003 |
| Median | : 8.544e+002 |
| Std. Deviation | : 5.493e+002 |
| Mean | : 1.168e+003 |
| 95% UCL | : 1.328e+003 |

Measurement Values

| Location | Value | Location | Value |
|----------|------------|----------|------------|
| 000001 | 9.797e+002 | 000018 | 7.595e+002 |
| 000002 | 1.299e+003 | 000019 | 8.012e+002 |
| 000003 | 8.582e+002 | 000020 | 8.240e+002 |
| 000004 | 1.470e+003 | 000021 | 7.671e+002 |
| 000005 | 7.025e+002 | 000022 | 7.557e+002 |
| 000006 | 1.367e+003 | 000023 | 8.658e+002 |
| 000007 | 8.240e+002 | 000024 | 7.671e+002 |
| 000008 | 9.911e+002 | 000025 | 7.595e+002 |
| 000009 | 8.544e+002 | 000026 | 9.607e+002 |
| 000010 | 7.595e+002 | 000027 | 1.937e+003 |
| 000011 | 8.544e+002 | 000028 | 1.949e+003 |
| 000012 | 8.430e+002 | 000029 | 1.911e+003 |
| 000013 | 7.823e+002 | 000030 | 2.184e+003 |
| 000014 | 8.240e+002 | 000031 | 2.216e+003 |
| 000015 | 7.861e+002 | 000032 | 2.330e+003 |
| 000016 | 8.392e+002 | 000033 | 2.197e+003 |
| 000017 | 7.367e+002 | 000034 | 1.962e+003 |

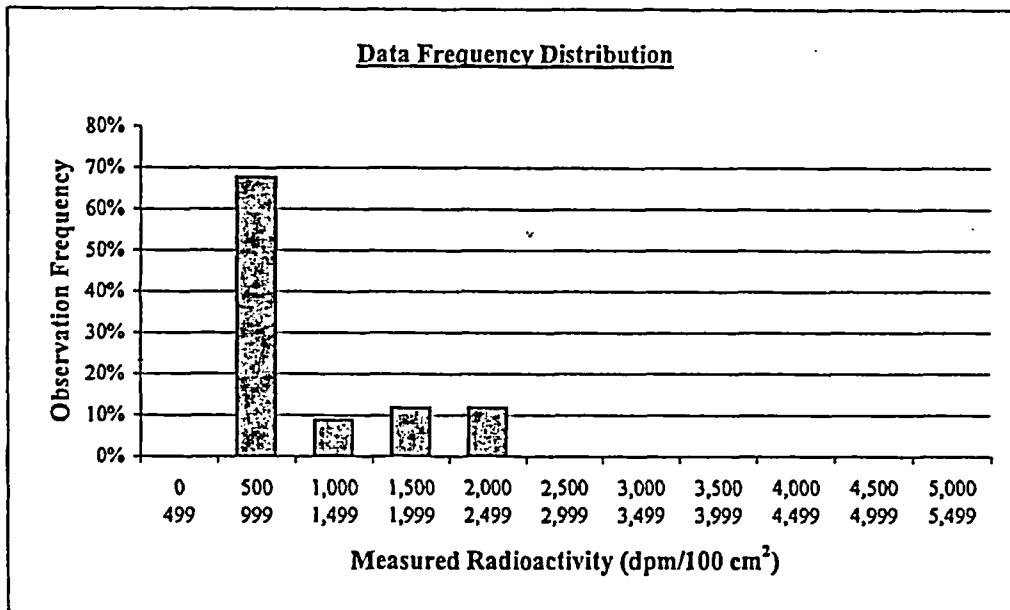
FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05025M
 Survey Unit Name: AB 25' Elevation –
 CWDT and Pump Rooms, Floors and Lower Walls

Classification: Class 1
 Size (m²): 94

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | | Statistical Quantities | |
|--|------------------|---------------------|-------------------|------------------------|-------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? | Range: | 1,627 |
| Range | 1,627 | 2,746 | Pass | Median: | 854 |
| Median | 0.572 | 0.500 | See comment below | Mean: | 1,168 |
| Mean | 1,168 | 6,000 | Pass | Std Dev: | 549 |
| Std Dev | 549 | 1,500 | Pass | Minimum: | 703 |
| All data less than DCGL; Sign statistical test not required. | | | | Maximum: | 2,330 |
| | | | | DCGL: | 7,500 |



| Plot Parameters | | Interval | High End | Low End | Number of Observations | Observation Frequency |
|---------------------|-------|----------|----------|---------|------------------------|-----------------------|
| # of measurements: | 34 | 1 | 499 | 0 | 0 | 0% |
| # of intervals: | 11 | 2 | 999 | 500 | 23 | 68% |
| Interval increment: | 500 | 3 | 1,499 | 1,000 | 3 | 9% |
| Minimum: | 0 | 4 | 1,999 | 1,500 | 4 | 12% |
| Maximum: | 5,499 | 5 | 2,499 | 2,000 | 4 | 12% |
| | | 6 | 2,999 | 2,500 | 0 | 0% |
| | | 7 | 3,499 | 3,000 | 0 | 0% |
| | | 8 | 3,999 | 3,500 | 0 | 0% |
| | | 9 | 4,499 | 4,000 | 0 | 0% |
| | | 10 | 4,999 | 4,500 | 0 | 0% |
| | | 11 | 5,499 | 5,000 | 0 | 0% |
| Total: | | | | | 34 | 100% |

Comment:

The data set contains values from both smooth and scabbled concrete surfaces, resulting in an expected bimodal distribution, due to different detector efficiency factors for the 2 geometries. The test failure does not represent an invalid data set. This statistical comparison is not meaningful for an expected bimodal distribution. All measurement values are valid and accepted.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05025M **Classification:** Class 1
Survey Unit Name: AB 25' Elevation – **Size (m²):** 94
CWDT and Pump Rooms, Floors and Lower Walls

Judgmental and Miscellaneous Measurement Data

Measurement Type: Surface Scanning Beta **Scan Coverage (%):** 100
Measurement Units: dpm/100cm² **Investigation Level:** 7,500
Minimum Value: 847 **Maximum Value:** 14,160

Measurement Type: Removable Beta **Number of Measurements:** 34
Measurement Units: dpm/100cm² **Investigation Level:** 750
Minimum Value: 2 **Maximum Value:** 21

Discussion of Anomalous Measurement Data

Investigation Summary

Reason for Investigation: Four scan measurements exceeded the investigation level.

Elevated Measurement Comparison (EMC):

| | |
|---|------------------------|
| DCGL (Investigation Level): | 7,500 |
| Measurement Units: | dpm/100cm ² |
| Maximum Value: | 14,160 |
| Size of Area Exceeding DCGL (m²): | 0.109 |
| Size of Survey Unit (m²): | 94 |
| Survey Unit Area >DCGL (%): | 0.116 |
| EMC Value: | 36,750 |

Action Taken: Corrected measurement values for scan locations 007, 009, 116, & 118 per guidance in memo FS-018-03. Replaced original scan results in SDMS with the corrected results. Applied EMC data processing to corrected results for scan locations that remain elevated.

Basis for Action Taken: Technical basis memorandum FS-018-03 provides guidance for correcting SDMS determined scan results for locations that exceed the investigation level by subtracting instrument background from the field results.

FINAL SURVEY RESULTS SUMMARY

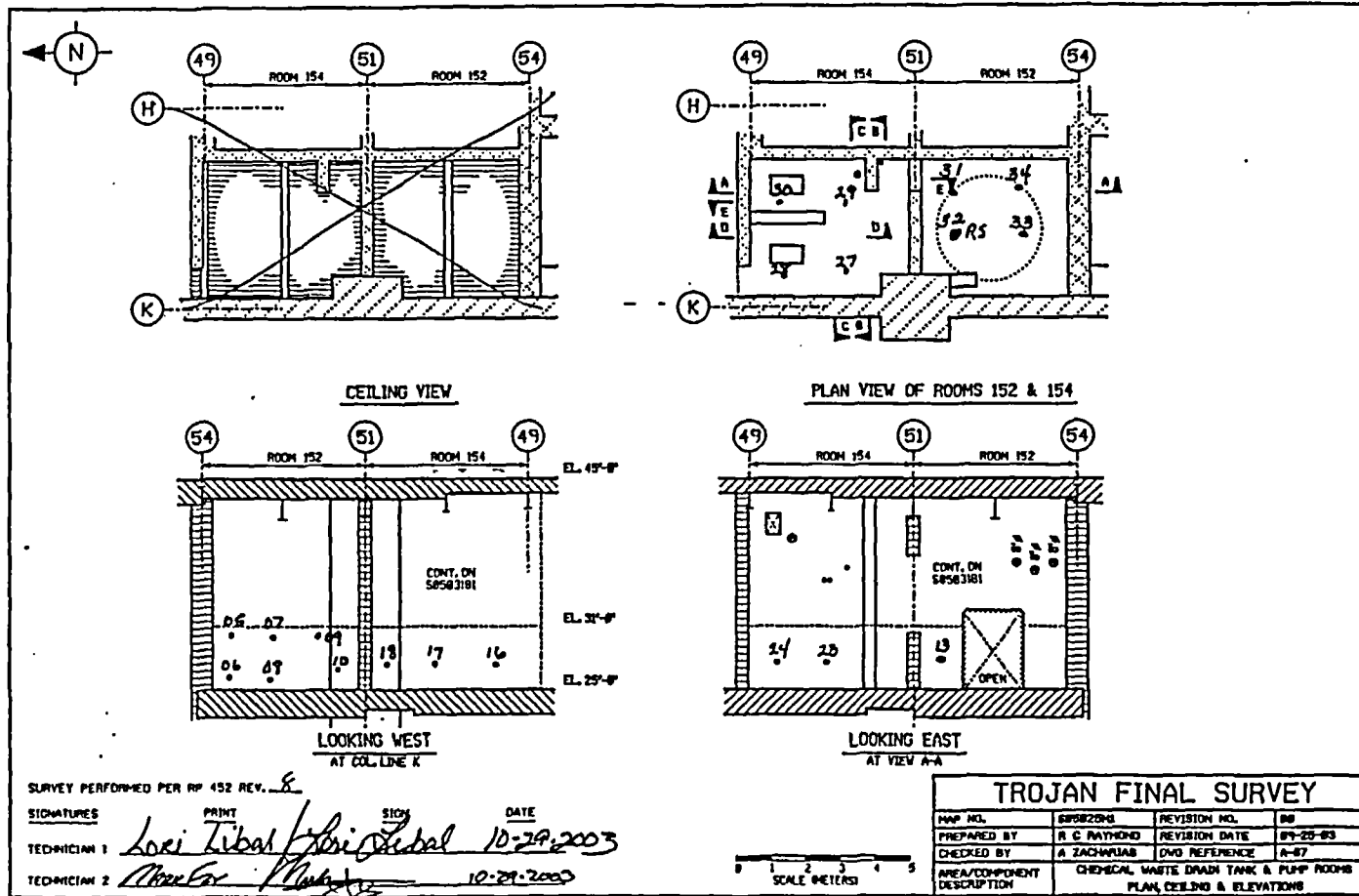
Survey Unit ID Code: S05025M

Survey Unit Name: AB 25' Elevation - CWDT and Pump Rooms, Floors and Lower Walls

Classification: Class 1

Size (m²): 94

Static Measurement Locations Map



L = 5'11" (1.8m)

RS = Random Start

FINAL SURVEY RESULTS SUMMARY

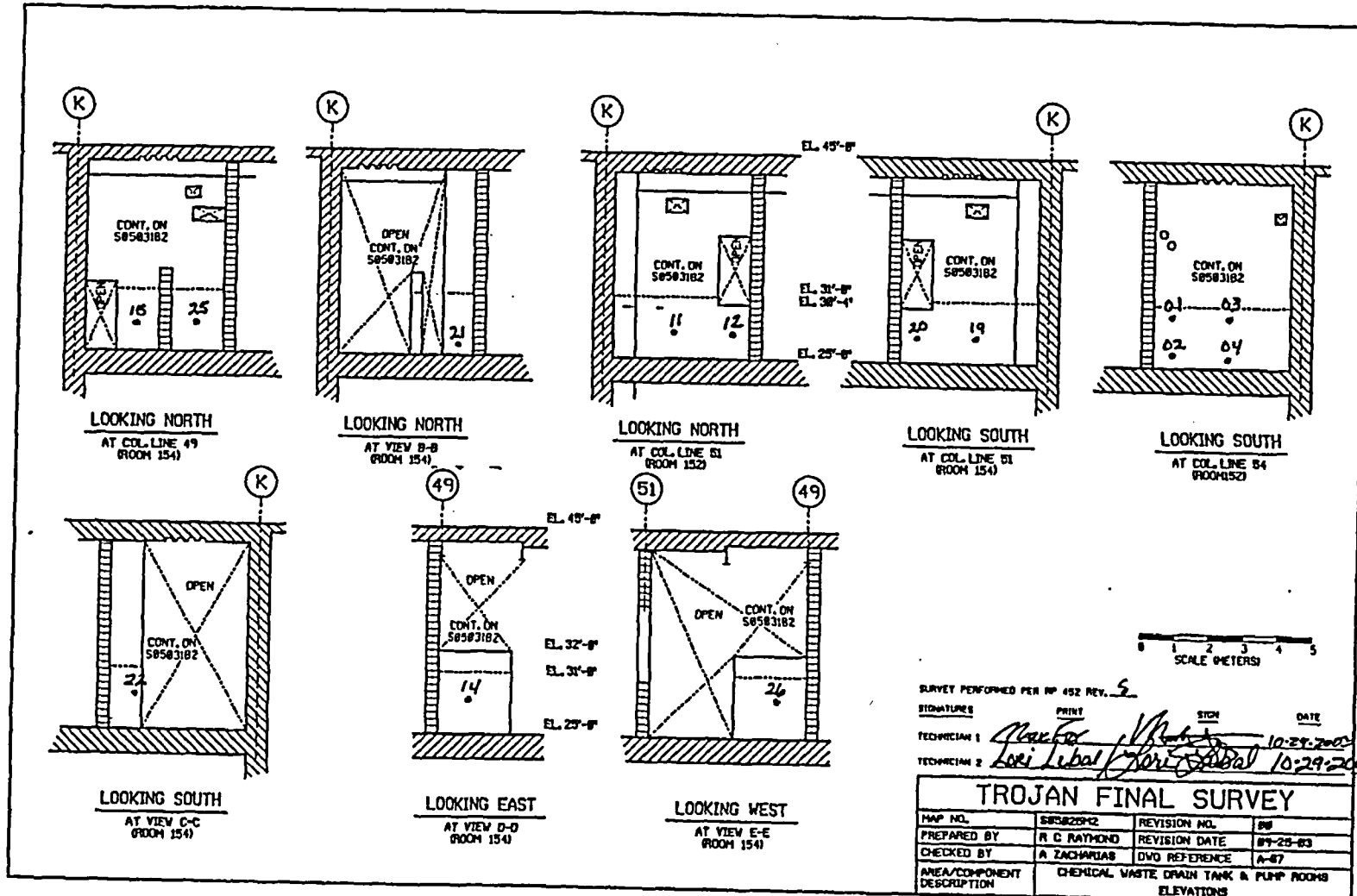
Survey Unit ID Code: S05025M

Survey Unit Name: AB 25' Elevation - CWDT and Pump Rooms, Floors and Lower Walls

Classification: Class 1

Size (m²): 94

Static Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05025N
 Survey Unit Name: AB 25' Elevation -
 PMW Pump Room Floor and Lower Walls

Classification: Class 1
 Size (m²): 48

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|--------------------------|---------------|-------------------------|------------|-----|-----|
| 1 | 30 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 7.086e+002
 Maximum Value : 2.216e+003
 Range : 1.507e+003
 Median : 8.362e+002
 Std. Deviation : 6.082e+002
 Mean : 1.217e+003
 95% UCL : 1.406e+003

Measurement Values

| Location | Value | Location | Value |
|----------|------------|----------|------------|
| 000001 | 2.006e+003 | 000018 | 9.070e+002 |
| 000002 | 2.013e+003 | 000019 | 8.665e+002 |
| 000003 | 1.797e+003 | 000020 | 7.896e+002 |
| 000004 | 2.146e+003 | 000021 | 8.949e+002 |
| 000005 | 1.975e+003 | 000022 | 7.491e+002 |
| 000006 | 2.121e+003 | 000023 | 7.410e+002 |
| 000007 | 2.019e+003 | 000024 | 7.086e+002 |
| 000008 | 2.057e+003 | 000025 | 7.653e+002 |
| 000009 | 2.216e+003 | 000026 | 9.192e+002 |
| 000010 | 2.197e+003 | 000027 | 8.341e+002 |
| 000011 | 7.613e+002 | 000028 | 8.058e+002 |
| 000012 | 7.653e+002 | 000029 | 7.248e+002 |
| 000013 | 8.382e+002 | 000030 | 7.937e+002 |
| 000014 | 8.098e+002 | | |
| 000015 | 7.775e+002 | | |
| 000016 | 7.248e+002 | | |
| 000017 | 7.977e+002 | | |

FINAL SURVEY RESULTS SUMMARY

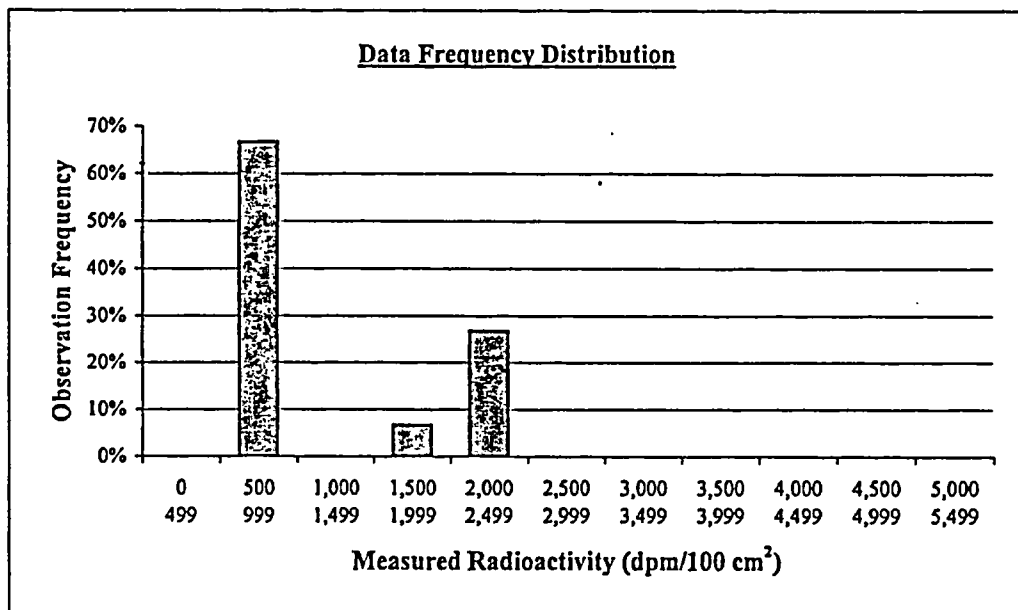
Survey Unit ID Code: S05025N
 Survey Unit Name: AB 25' Elevation –
 PMW Pump Room Floor and Lower Walls

Classification: Class 1
 Size (m²): 48

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | | Statistical Quantities | |
|-------------------------|------------------|---------------------|-------------------|------------------------|-------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? | | |
| Range | 1,507 | 3,041 | Pass | Range: | 1,507 |
| Median | 0.627 | 0.500 | See comment below | Median: | 836 |
| Mean | 1,217 | 6,000 | Pass | Mean: | 1,217 |
| Std Dev | 608 | 1,500 | Pass | Std Dev: | 608 |
| | | | | Minimum: | 709 |
| | | | | Maximum: | 2,216 |
| | | | | DCGL: | 7,500 |

All data less than DCGL; Sign statistical test not required.



| Plot Parameters | | Interval High End Low End | | | | Number of Observations | Observation Frequency |
|---------------------|-------|---------------------------|-------|-------|----|------------------------|-----------------------|
| # of measurements: | 30 | 1 | 499 | 0 | 0 | 0% | |
| # of intervals: | 11 | 2 | 999 | 500 | 20 | 67% | |
| Interval increment: | 500 | 3 | 1,499 | 1,000 | 0 | 0% | |
| Minimum: | 0 | 4 | 1,999 | 1,500 | 2 | 7% | |
| Maximum: | 5,499 | 5 | 2,499 | 2,000 | 8 | 27% | |
| | | 6 | 2,999 | 2,500 | 0 | 0% | |
| | | 7 | 3,499 | 3,000 | 0 | 0% | |
| | | 8 | 3,999 | 3,500 | 0 | 0% | |
| | | 9 | 4,499 | 4,000 | 0 | 0% | |
| | | 10 | 4,999 | 4,500 | 0 | 0% | |
| | | 11 | 5,499 | 5,000 | 0 | 0% | |
| | | Total: | | | 30 | 100% | |

Comment:

The data set contains values from both smooth and scabbled concrete surfaces, resulting in an expected bimodal distribution, due to different detector efficiency factors for the 2 geometries. The test failure does not represent an invalid data set. This statistical comparison is not meaningful for an expected bimodal distribution. All measurement values are valid and accepted.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05025N

Classification: Class 1

Survey Unit Name: AB 25' Elevation –

Size (m²): 48

PMW Pump Room Floor and Lower Walls

Judgmental and Miscellaneous Measurement Data

Measurement Type: Surface Scanning Beta

Scan Coverage (%): 100

Measurement Units: dpm/100cm²

Investigation Level: 7,500

Minimum Value: 879

Maximum Value: 7,489

Measurement Type: Removable Beta

Number of Measurements: 30

Measurement Units: dpm/100cm²

Investigation Level: 750

Minimum Value: 2

Maximum Value: 21

Discussion of Anomalous Measurement Data

Investigation Summary

No investigation required for this survey unit. No anomalous measurement data.

FINAL SURVEY RESULTS SUMMARY

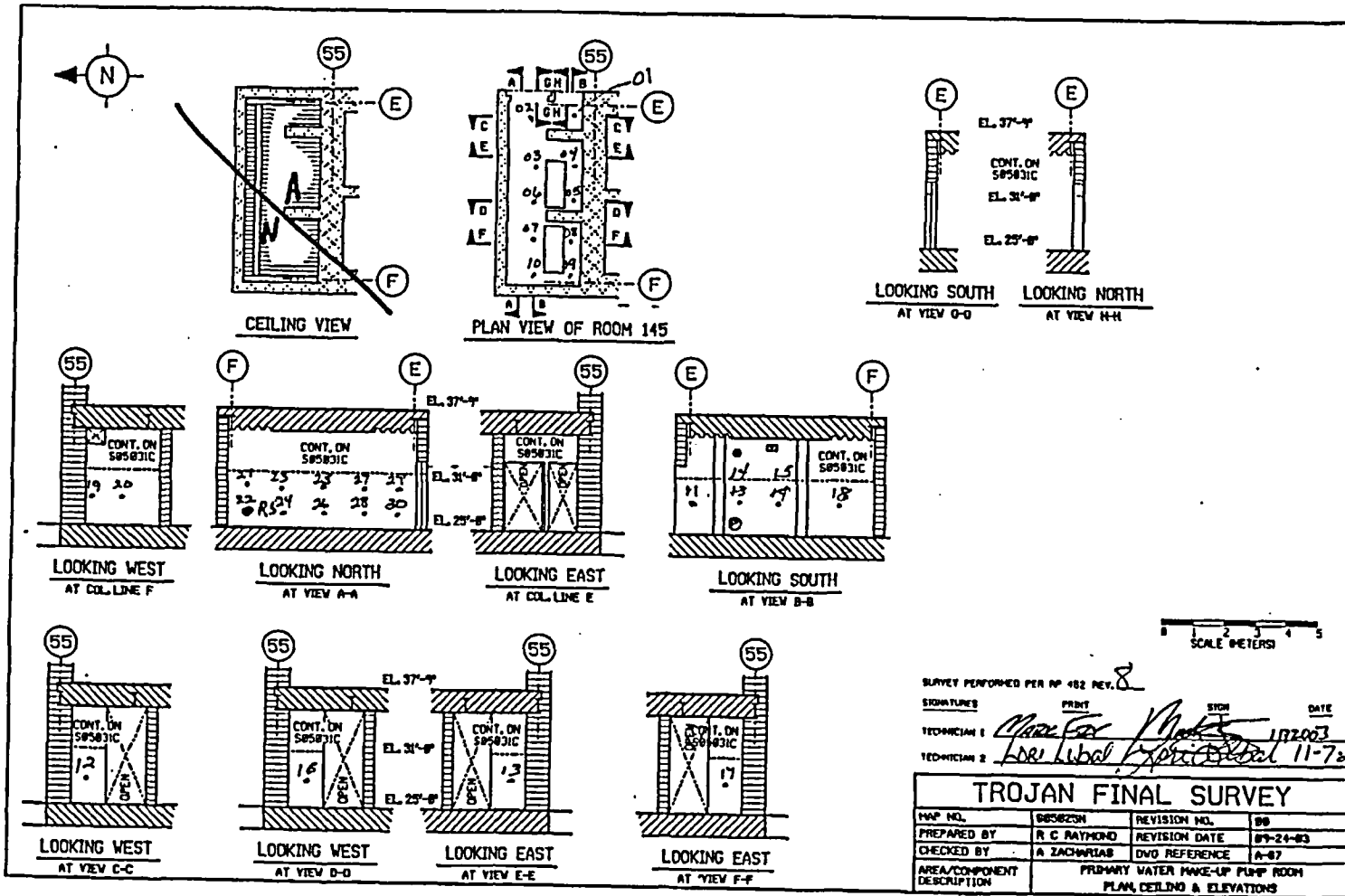
Survey Unit ID Code: S05025N

Survey Unit Name: AB 25' Elevation - PMW Pump Room Floor and Lower Walls

Classification: Class 1

Size (m²): 48

Static Measurement Locations Map



L = 4'3" (1.3m)
RS - Random Start

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05031A

Classification: Class 2

Survey Unit Name: AB 25' Elevation -

Size (m²): 118

North "B" CCP Room Upper Walls and Ceiling

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|-----------------------|------------|-------------------------|------------|-----|-----|
| 1 | 30 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 5.567e+002
 Maximum Value : 9.634e+002
 Range : 4.067e+002
 Median : 7.483e+002
 Std. Deviation : 7.581e+001
 Mean : 7.485e+002
 95% UCL : 7.720e+002

Measurement Values

| Location | Value | Location | Value |
|----------|------------|----------|------------|
| 000001 | 7.226e+002 | 000018 | 6.397e+002 |
| 000002 | 9.634e+002 | 000019 | 8.055e+002 |
| 000003 | 7.700e+002 | 000020 | 7.463e+002 |
| 000004 | 7.858e+002 | 000021 | 6.278e+002 |
| 000005 | 7.384e+002 | 000022 | 6.594e+002 |
| 000006 | 7.542e+002 | 000023 | 7.502e+002 |
| 000007 | 7.147e+002 | 000024 | 7.384e+002 |
| 000008 | 7.700e+002 | 000025 | 8.055e+002 |
| 000009 | 7.305e+002 | 000026 | 7.463e+002 |
| 000010 | 7.384e+002 | 000027 | 8.371e+002 |
| 000011 | 5.567e+002 | 000028 | 7.265e+002 |
| 000012 | 7.542e+002 | 000029 | 8.015e+002 |
| 000013 | 6.357e+002 | 000030 | 7.858e+002 |
| 000014 | 7.739e+002 | | |
| 000015 | 8.410e+002 | | |
| 000016 | 8.055e+002 | | |
| 000017 | 7.305e+002 | | |

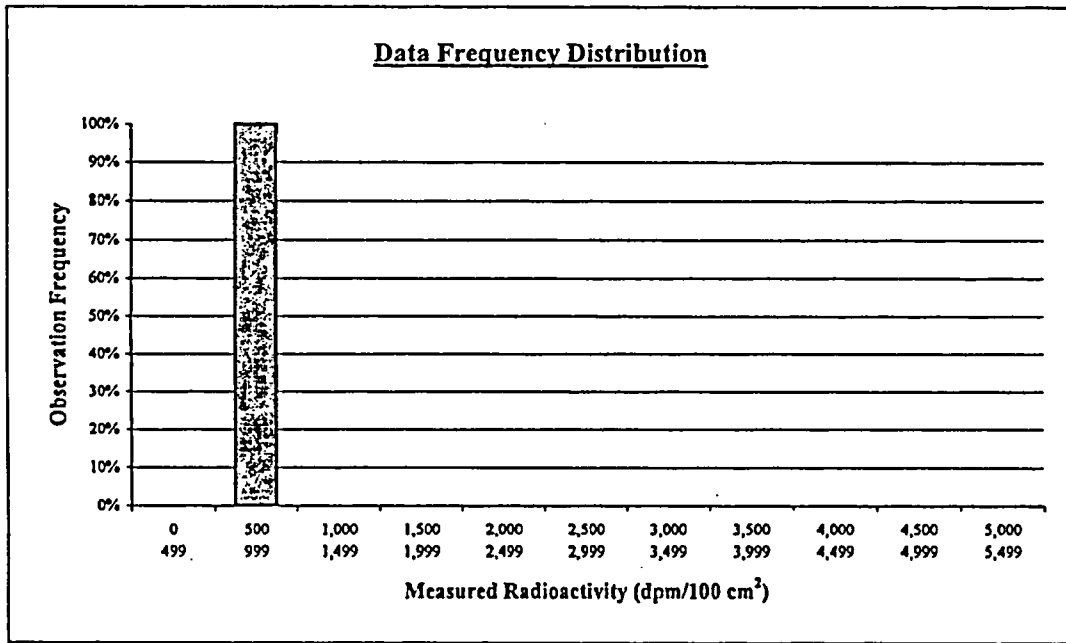
FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05031A
Survey Unit Name: AB 25' Elevation –
 North "B" CCP Room Upper Walls and Ceiling

Classification: Class 2
Size (m²): 118

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | | Statistical Quantities | |
|--|------------------|---------------------|-------------------|------------------------|-------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? | Range: | 407 |
| Range | 407 | 379 | See comment below | Median: | 748 |
| Median | 0.004 | 0.500 | Pass | Mean: | 749 |
| Mean | 749 | 6,000 | Pass | Std Dev: | 76 |
| Std Dev | 76 | 1,500 | Pass | Minimum: | 557 |
| All data less than DCGL; Sign statistical test not required. | | | | Maximum: | 963 |
| | | | | DCGL: | 7,500 |



| Plot Parameters | Interval | High End | Low End | Number of Observations | Observation Frequency |
|-------------------------|---------------|----------|---------|------------------------|-----------------------|
| # of measurements: 30 | 1 | 499 | 0 | 0 | 0% |
| # of intervals: 11 | 2 | 999 | 500 | 30 | 100% |
| Interval increment: 500 | 3 | 1,499 | 1,000 | 0 | 0% |
| Minimum: 0 | 4 | 1,999 | 1,500 | 0 | 0% |
| Maximum: 5,499 | 5 | 2,499 | 2,000 | 0 | 0% |
| | 6 | 2,999 | 2,500 | 0 | 0% |
| | 7 | 3,499 | 3,000 | 0 | 0% |
| | 8 | 3,999 | 3,500 | 0 | 0% |
| | 9 | 4,499 | 4,000 | 0 | 0% |
| | 10 | 4,999 | 4,500 | 0 | 0% |
| | 11 | 5,499 | 5,000 | 0 | 0% |
| | Total: | | | 30 | 100% |

Comment:
 Range failure is a test artifact due to a very small standard deviation, and a narrow range. For this distribution (100% of values between 550 & 970 dpm) the range test is meaningless. All data are valid & accepted.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05031A

Classification: Class 2

Survey Unit Name: AB 25' Elevation –

Size (m²): 118

North "B" CCP Room Upper Walls and Ceiling

Judgmental and Miscellaneous Measurement Data

Measurement Type: Surface Scanning Beta

Scan Coverage (%): 35

Measurement Units: dpm/100cm²

Investigation Level: 7,500

Minimum Value: 775

Maximum Value: 1,299

Measurement Type: Removable Beta

Number of Measurements: 30

Measurement Units: dpm/100cm²

Investigation Level: 750

Minimum Value: 3

Maximum Value: 25

Discussion of Anomalous Measurement Data

Investigation Summary

No investigation required for this survey unit. No anomalous measurement data.

FINAL SURVEY RESULTS SUMMARY

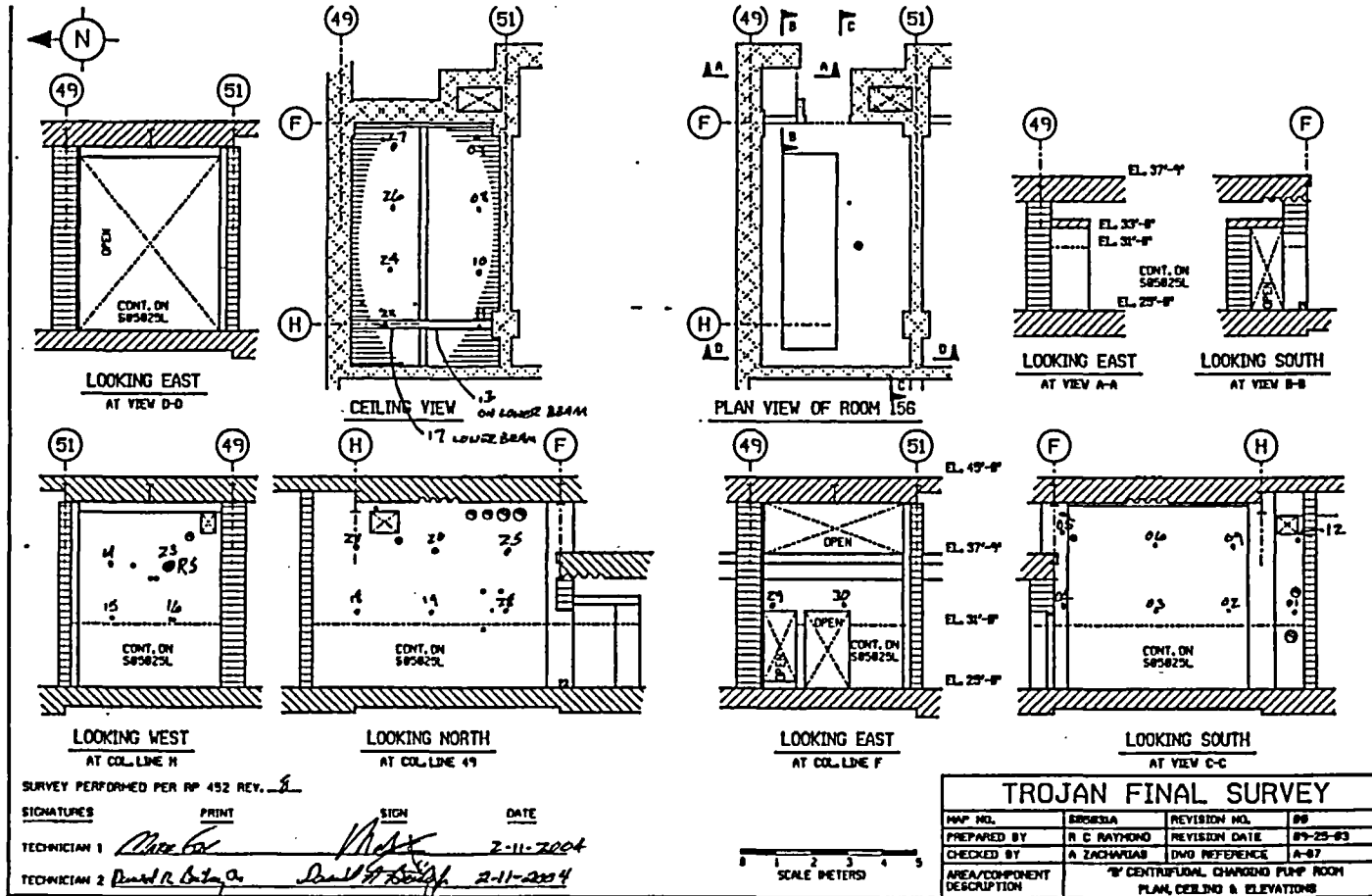
Survey Unit ID Code: S05031A

Survey Unit Name: AB 25' Elevation - North "B" CCP Room Upper Walls and Ceiling

Classification: Class 2

Size (m²): 118

Static Measurement Locations Map



L = 6'7" (2m)
RS - Random Start

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05031B

Classification: Class 2

Survey Unit Name: AB 25' Elevation -

Size (m²): 164

CWDT and Pump Rooms Upper Walls and Ceiling

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|--------------------------|---------------|-------------------------|------------|-----|-----|
| 1 | 32 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 5.094e+002
 Maximum Value : 1.623e+003
 Range : 1.114e+003
 Median : 7.739e+002
 Std. Deviation : 1.797e+002
 Mean : 7.789e+002
 95% UCL : 8.327e+002

Measurement Values

| Location | Value | Location | Value |
|----------|------------|----------|------------|
| 000001 | 7.779e+002 | 000018 | 9.318e+002 |
| 000002 | 6.436e+002 | 000019 | 8.252e+002 |
| 000003 | 7.779e+002 | 000020 | 7.976e+002 |
| 000004 | 6.831e+002 | 000021 | 6.318e+002 |
| 000005 | 8.331e+002 | 000022 | 8.608e+002 |
| 000006 | 7.779e+002 | 000023 | 7.858e+002 |
| 000007 | 5.923e+002 | 000024 | 7.305e+002 |
| 000008 | 6.910e+002 | 000025 | 8.845e+002 |
| 000009 | 6.989e+002 | 000026 | 7.621e+002 |
| 000010 | 6.239e+002 | 000027 | 8.410e+002 |
| 000011 | 5.094e+002 | 000028 | 7.739e+002 |
| 000012 | 8.568e+002 | 000029 | 7.423e+002 |
| 000013 | 6.949e+002 | 000030 | 1.623e+003 |
| 000014 | 8.450e+002 | 000031 | 7.502e+002 |
| 000015 | 7.739e+002 | 000032 | 7.660e+002 |
| 000016 | 8.015e+002 | | |
| 000017 | 6.357e+002 | | |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05031B

Classification: Class 2

Survey Unit Name: AB 25' Elevation -

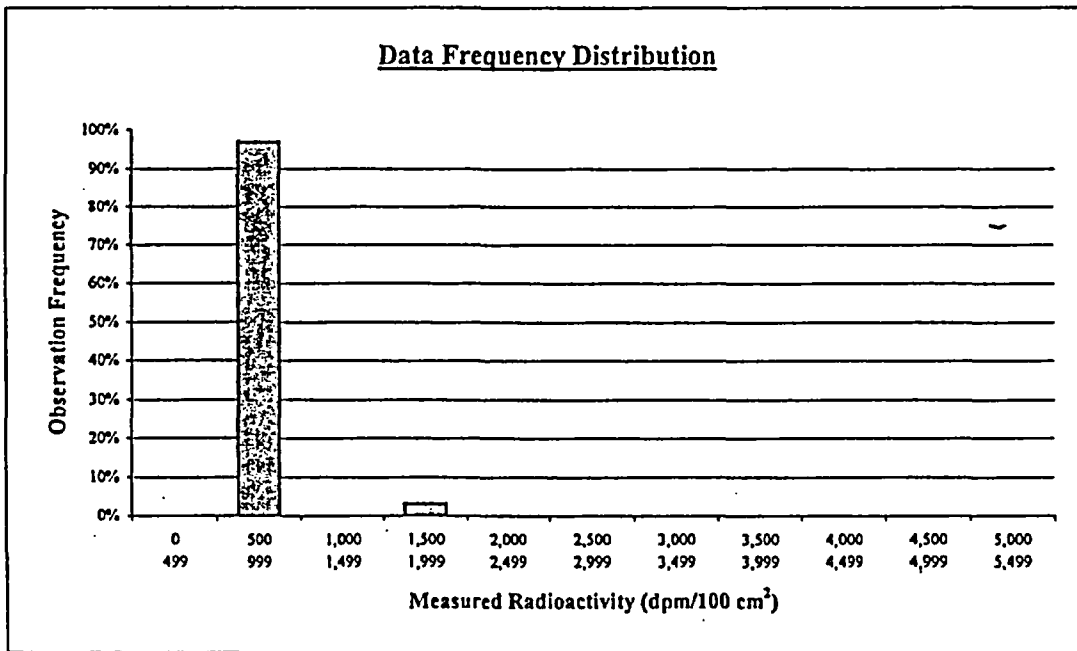
Size (m²): 164

CWDT and Pump Rooms Upper Walls and Ceiling

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | | Statistical Quantities | |
|-------------------------|------------------|---------------------|-------------------|------------------------|-------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? | Range: | 1,114 |
| Range | 1,114 | 899 | See comment below | Median: | 774 |
| Median | 0.028 | 0.500 | Pass | Mean: | 779 |
| Mean | 779 | 6,000 | Pass | Std Dev: | 180 |
| Std Dev | 180 | 1,500 | Pass | Minimum: | 509 |
| | | | | Maximum: | 1,623 |
| | | | | DCGL: | 7,500 |

All data less than DCGL; Sign statistical test not required.



| Plot Parameters | |
|---------------------|-------|
| # of measurements: | 32 |
| # of intervals: | 11 |
| Interval increment: | 500 |
| Minimum: | 0 |
| Maximum: | 5,499 |

| Interval | High End | Low End | Number of Observations | Observation Frequency |
|----------|----------|---------|------------------------|-----------------------|
| 1 | 499 | 0 | 0 | 0% |
| 2 | 999 | 500 | 31 | 97% |
| 3 | 1,499 | 1,000 | 0 | 0% |
| 4 | 1,999 | 1,500 | 1 | 3% |
| 5 | 2,499 | 2,000 | 0 | 0% |
| 6 | 2,999 | 2,500 | 0 | 0% |
| 7 | 3,499 | 3,000 | 0 | 0% |
| 8 | 3,999 | 3,500 | 0 | 0% |
| 9 | 4,499 | 4,000 | 0 | 0% |
| 10 | 4,999 | 4,500 | 0 | 0% |
| 11 | 5,499 | 5,000 | 0 | 0% |
| Total: | | | 32 | 100% |

Comment:

Range failure is a test artifact, due to a single measurement value greater than 1,500 dpm, and a very small standard deviation for the data set. All data are valid & accepted.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05031B **Classification:** Class 2
Survey Unit Name: AB 25' Elevation – **Size (m²):** 164
CWDT and Pump Rooms Upper Walls and Ceiling

Judgmental and Miscellaneous Measurement Data

Measurement Type: Surface Scanning Beta **Scan Coverage (%):** 35
Measurement Units: dpm/100cm² **Investigation Level:** 7,500
Minimum Value: 880 **Maximum Value:** 4,130

Measurement Type: Removable Beta **Number of Measurements:** 32
Measurement Units: dpm/100cm² **Investigation Level:** 750
Minimum Value: 4 **Maximum Value:** 18

Discussion of Anomalous Measurement Data

Investigation Summary

No investigation required for this survey unit. No anomalous measurement data.

FINAL SURVEY RESULTS SUMMARY

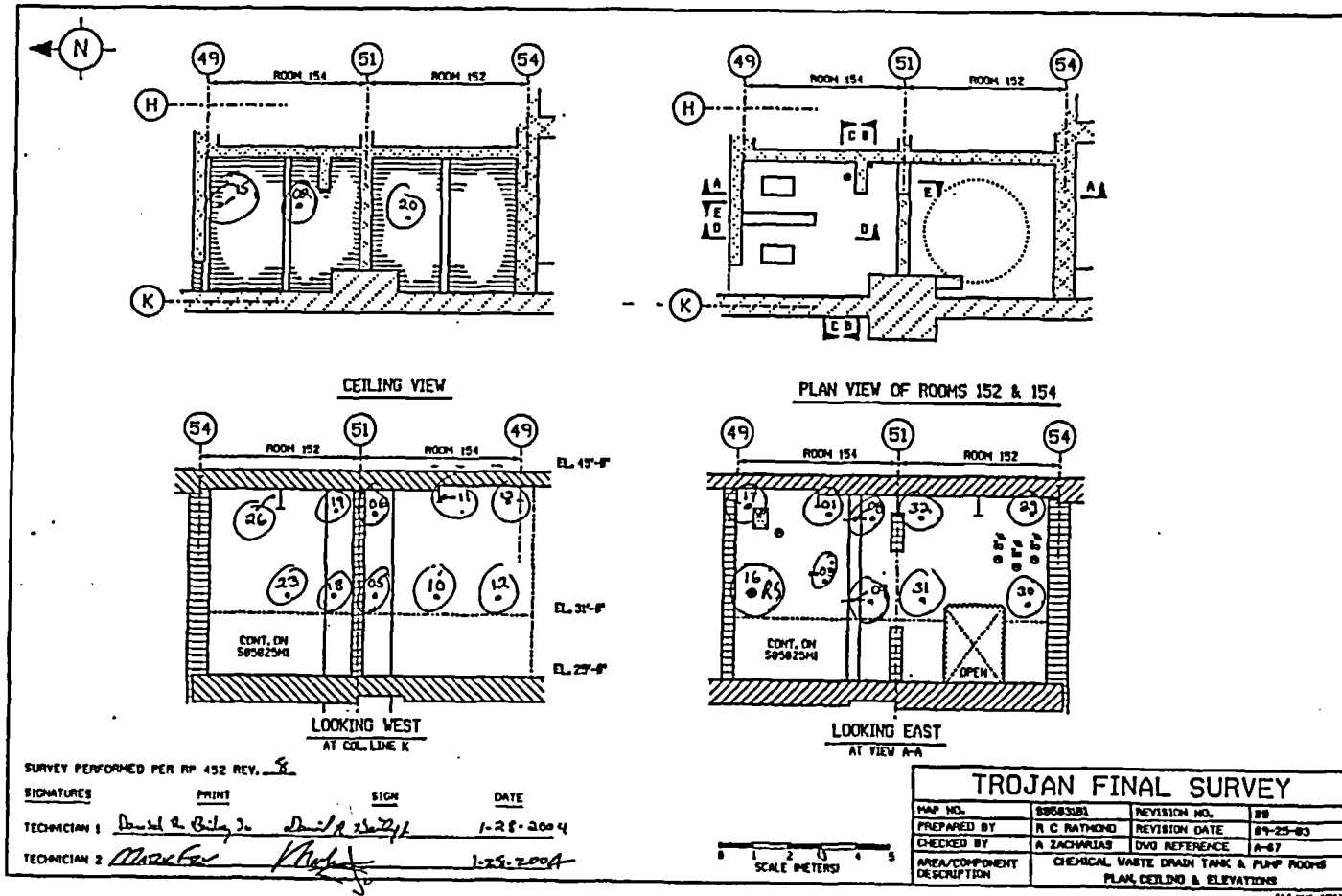
Survey Unit ID Code: S05031B

Survey Unit Name: AB 25' Elevation - CWDT and Pump Rooms Upper Walls and Ceiling

Classification: Class 2

Size (m²): 164

Static Measurement Locations Map



L = 7'6" (2.3m)
 RS - Random Start

FINAL SURVEY RESULTS SUMMARY

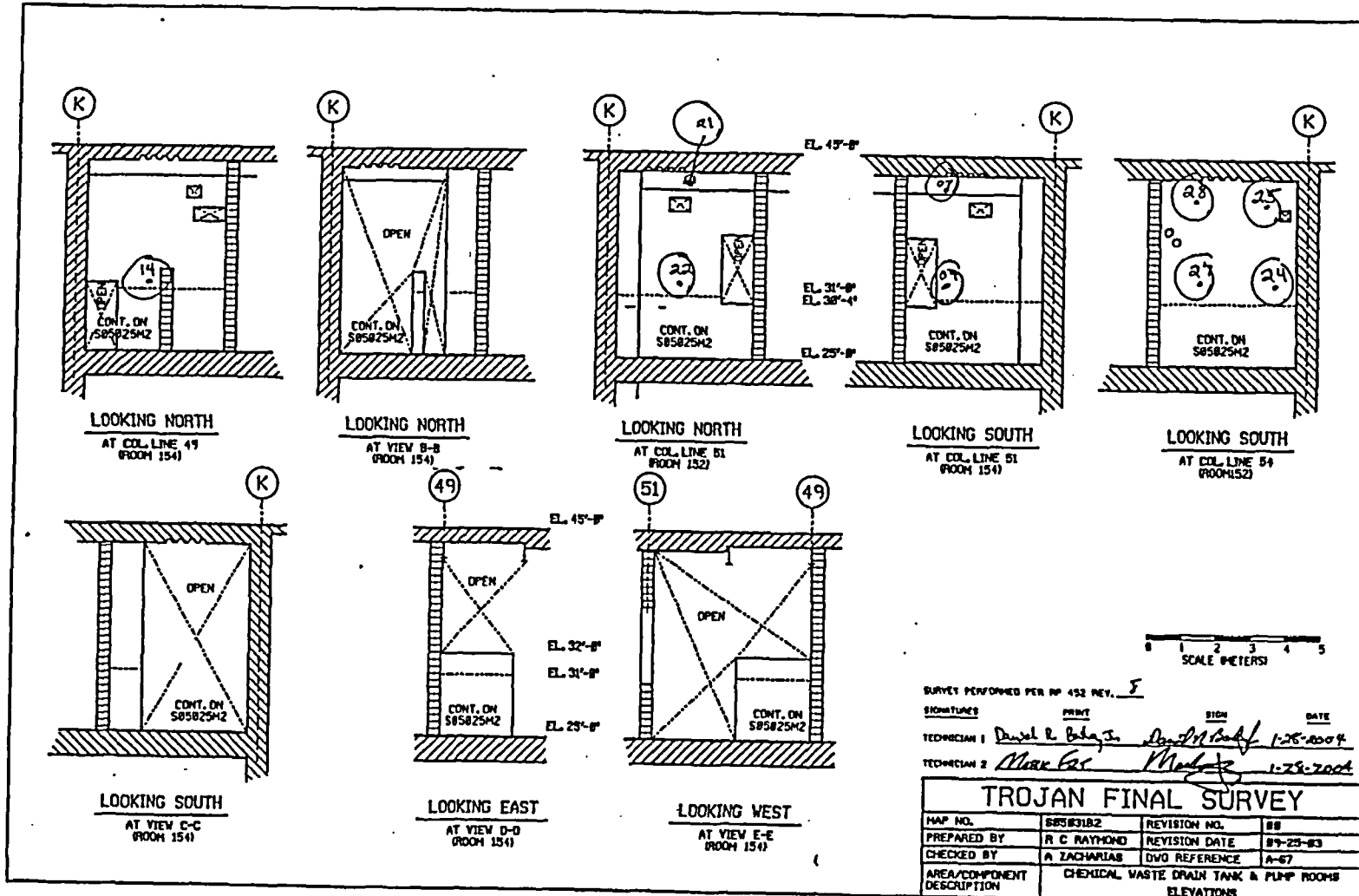
Survey Unit ID Code: S05031B

Survey Unit Name: AB 25' Elevation - CWDT and Pump Rooms Upper Walls and Ceiling

Classification: Class 2

Size (m²): 164

Static Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05031C

Classification: Class 2

Survey Unit Name: AB 25' Elevation -

Size (m²): 51

PMW Pump Room Upper Walls and Ceilings

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|-----------------------|------------|-------------------------|------------|-----|-----|
| 1 | 30 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 6.002e+002
 Maximum Value : 1.074e+003
 Range : 4.738e+002
 Median : 7.621e+002
 Std. Deviation : 1.016e+002
 Mean : 7.651e+002
 95% UCL : 7.966e+002

Measurement Values

| Location | Value | Location | Value |
|----------|------------|----------|------------|
| 000001 | 1.074e+003 | 000018 | 8.766e+002 |
| 000002 | 9.595e+002 | 000019 | 7.581e+002 |
| 000003 | 6.831e+002 | 000020 | 8.055e+002 |
| 000004 | 6.476e+002 | 000021 | 7.147e+002 |
| 000005 | 7.068e+002 | 000022 | 8.647e+002 |
| 000006 | 6.791e+002 | 000023 | 7.542e+002 |
| 000007 | 6.555e+002 | 000024 | 7.621e+002 |
| 000008 | 6.515e+002 | 000025 | 6.831e+002 |
| 000009 | 7.265e+002 | 000026 | 6.002e+002 |
| 000010 | 7.305e+002 | 000027 | 7.818e+002 |
| 000011 | 6.041e+002 | 000028 | 8.331e+002 |
| 000012 | 8.529e+002 | 000029 | 8.292e+002 |
| 000013 | 7.779e+002 | 000030 | 7.937e+002 |
| 000014 | 8.015e+002 | | |
| 000015 | 8.015e+002 | | |
| 000016 | 7.621e+002 | | |
| 000017 | 7.818e+002 | | |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05031C

Classification: Class 2

Survey Unit Name: AB 25' Elevation -

Size (m²): 51

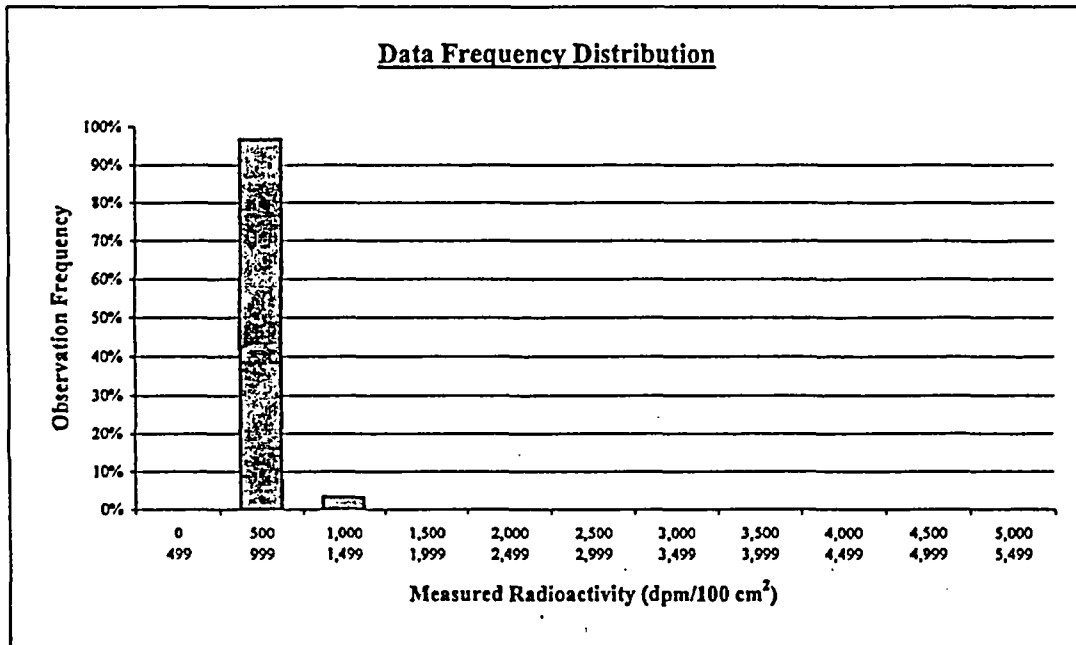
PMW Pump Room Upper Walls and Ceilings

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | |
|-------------------------|------------------|---------------------|-------------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? |
| Range | 474 | 508 | Pass |
| Median | 0.032 | 0.500 | Pass |
| Mean | 765 | 6,000 | Pass |
| Std Dev | 102 | 1,500 | Pass |

| Statistical Quantities | |
|------------------------|-------|
| Range: | 474 |
| Median: | 762 |
| Mean: | 765 |
| Std Dev: | 102 |
| Minimum: | 600 |
| Maximum: | 1,074 |
| DCGL: | 7,500 |

All data less than DCGL; Sign statistical test not required.



| Plot Parameters | |
|---------------------|-------|
| # of measurements: | 30 |
| # of intervals: | 11 |
| Interval increment: | 500 |
| Minimum: | 0 |
| Maximum: | 5,499 |

Comment:
None.

| Interval | High End | Low End | Number of Observations | Observation Frequency |
|----------|----------|---------|------------------------|-----------------------|
| 1 | 499 | 0 | 0 | 0% |
| 2 | 999 | 500 | 29 | 97% |
| 3 | 1,499 | 1,000 | 1 | 3% |
| 4 | 1,999 | 1,500 | 0 | 0% |
| 5 | 2,499 | 2,000 | 0 | 0% |
| 6 | 2,999 | 2,500 | 0 | 0% |
| 7 | 3,499 | 3,000 | 0 | 0% |
| 8 | 3,999 | 3,500 | 0 | 0% |
| 9 | 4,499 | 4,000 | 0 | 0% |
| 10 | 4,999 | 4,500 | 0 | 0% |
| 11 | 5,499 | 5,000 | 0 | 0% |
| Total: | | | 30 | 100% |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05031C

Classification: Class 2

Survey Unit Name: AB 25' Elevation –

Size (m²): 51

PMW Pump Room Upper Walls and Ceilings

Judgmental and Miscellaneous Measurement Data

Measurement Type: Surface Scanning Beta

Scan Coverage (%): 35

Measurement Units: dpm/100cm²

Investigation Level: 7,500

Minimum Value: 889

Maximum Value: 3,830

Measurement Type: Removable Beta

Number of Measurements: 30

Measurement Units: dpm/100cm²

Investigation Level: 750

Minimum Value: 2

Maximum Value: 15

Discussion of Anomalous Measurement Data

Investigation Summary

No investigation required for this survey unit. No anomalous measurement data.

FINAL SURVEY RESULTS SUMMARY

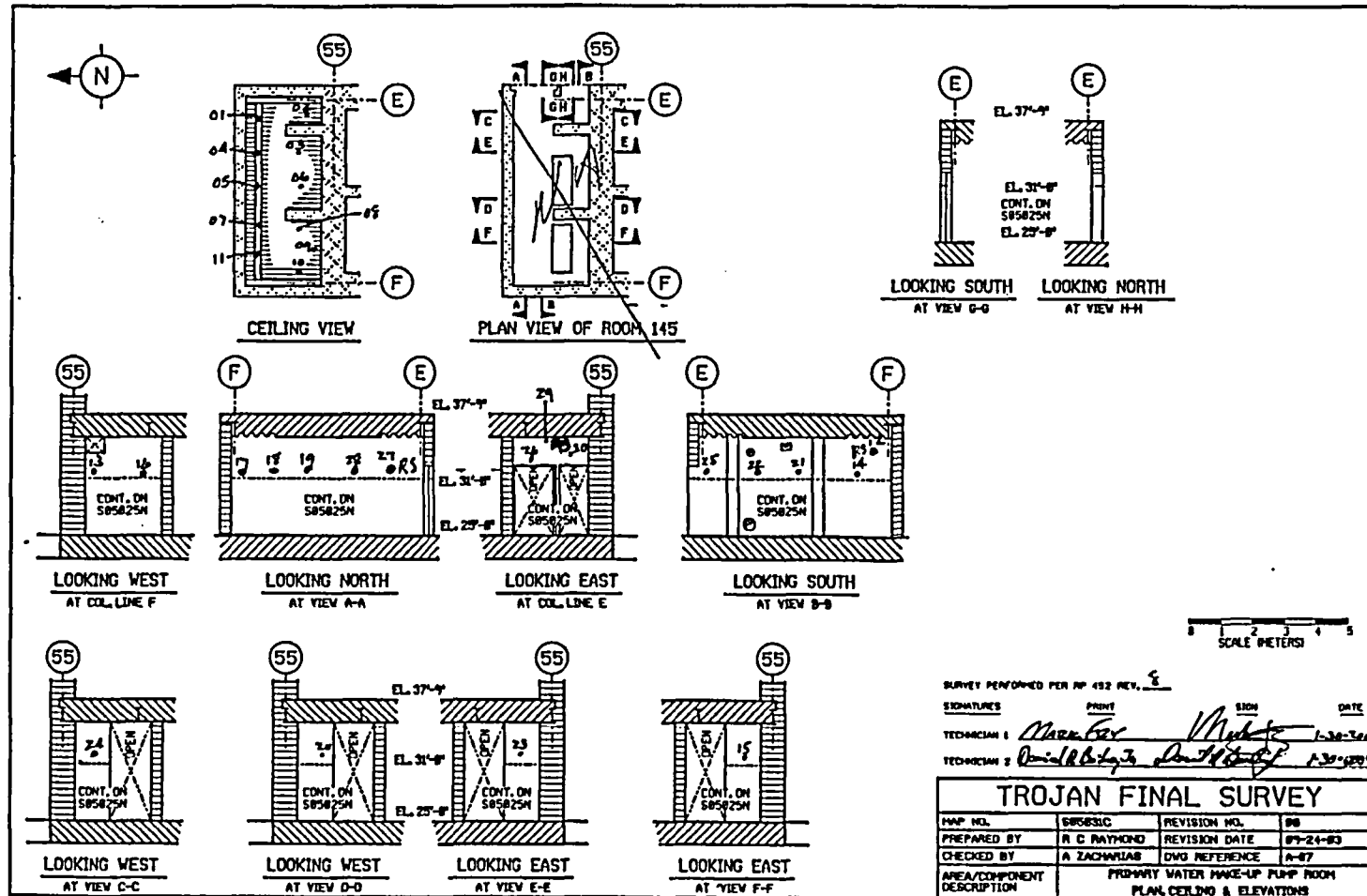
Survey Unit ID Code: S05031C

Survey Unit Name: AB 25' Elevation - PMW Pump Room Upper Walls and Ceilings

Classification: Class 2

Size (m²): 51

Static Measurement Locations Map



L = 4'3"
RS = Random Start

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05037A
 Survey Unit Name: AB 37' Elevation - Pipeway Floor

Classification: Class 1
 Size (m²): 83

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|--------------------------|---------------|-------------------------|------------|-----|-----|
| 1 | 31 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 1.790e+003
 Maximum Value : 2.533e+003
 Range : 7.430e+002
 Median : 2.057e+003
 Std. Deviation : 1.561e+002
 Mean : 2.075e+003
 95% UCL : 2.122e+003

Measurement Values

| Location | Value | Location | Value |
|----------|------------|----------|------------|
| 000001 | 1.956e+003 | 000018 | 2.229e+003 |
| 000002 | 2.013e+003 | 000019 | 2.229e+003 |
| 000003 | 1.924e+003 | 000020 | 1.930e+003 |
| 000004 | 1.930e+003 | 000021 | 2.229e+003 |
| 000005 | 1.917e+003 | 000022 | 2.057e+003 |
| 000006 | 2.165e+003 | 000023 | 1.873e+003 |
| 000007 | 2.013e+003 | 000024 | 2.000e+003 |
| 000008 | 2.121e+003 | 000025 | 2.533e+003 |
| 000009 | 1.930e+003 | 000026 | 2.025e+003 |
| 000010 | 1.790e+003 | 000027 | 2.210e+003 |
| 000011 | 2.057e+003 | 000028 | 2.089e+003 |
| 000012 | 2.038e+003 | 000029 | 2.127e+003 |
| 000013 | 2.025e+003 | 000030 | 2.114e+003 |
| 000014 | 2.032e+003 | 000031 | 2.184e+003 |
| 000015 | 2.063e+003 | | |
| 000016 | 2.444e+003 | | |
| 000017 | 2.076e+003 | | |

FINAL SURVEY RESULTS SUMMARY

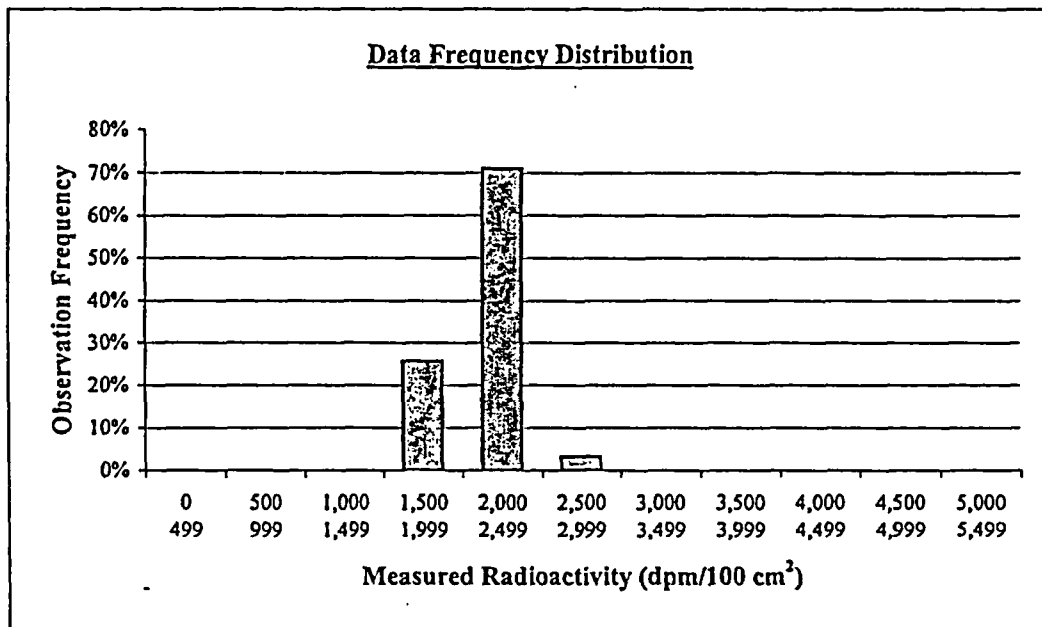
Survey Unit ID Code: S05037A
 Survey Unit Name: AB 37' Elevation – Pipeway Floor

Classification: Class 1
 Size (m²): 83

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | | Statistical Quantities | |
|-------------------------|------------------|---------------------|-------------|------------------------|-------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? | Range: | 743 |
| Range | 743 | 781 | Pass | Median: | 2,057 |
| Median | 0.115 | 0.500 | Pass | Mean: | 2,075 |
| Mean | 2,075 | 6,000 | Pass | Std Dev: | 156 |
| Std Dev | 156 | 1,500 | Pass | Minimum: | 1,790 |
| | | | | Maximum: | 2,533 |
| | | | | DCGL: | 7,500 |

All data less than DCGL; Sign statistical test not required.



| Plot Parameters | | Interval | High End | Low End | Number of Observations | Observation Frequency |
|---------------------|-------|----------|----------|---------|------------------------|-----------------------|
| # of measurements: | 31 | 1 | 499 | 0 | 0 | 0% |
| # of intervals: | 11 | 2 | 999 | 500 | 0 | 0% |
| Interval increment: | 500 | 3 | 1,499 | 1,000 | 0 | 0% |
| Minimum: | 0 | 4 | 1,999 | 1,500 | 8 | 26% |
| Maximum: | 5,499 | 5 | 2,499 | 2,000 | 22 | 71% |
| | | 6 | 2,999 | 2,500 | 1 | 3% |
| | | 7 | 3,499 | 3,000 | 0 | 0% |
| | | 8 | 3,999 | 3,500 | 0 | 0% |
| | | 9 | 4,499 | 4,000 | 0 | 0% |
| | | 10 | 4,999 | 4,500 | 0 | 0% |
| | | 11 | 5,499 | 5,000 | 0 | 0% |
| Total: | | | | | 31 | 100% |

Comment:
NONE

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05037A

Classification: Class 1

Survey Unit Name: AB 37' Elevation – Pipeway Floor

Size (m²): 83

Judgmental and Miscellaneous Measurement Data

Measurement Type: Surface Scanning Beta

Scan Coverage (%): 100

Measurement Units: dpm/100cm²

Investigation Level: 7,500

Minimum Value: 2,223

Maximum Value: 7,127

Measurement Type: Removable Beta

Number of Measurements: 31

Measurement Units: dpm/100cm²

Investigation Level: 750

Minimum Value: 4

Maximum Value: 19

Discussion of Anomalous Measurement Data

Investigation Summary

No investigation required for this survey unit. No anomalous measurement data.

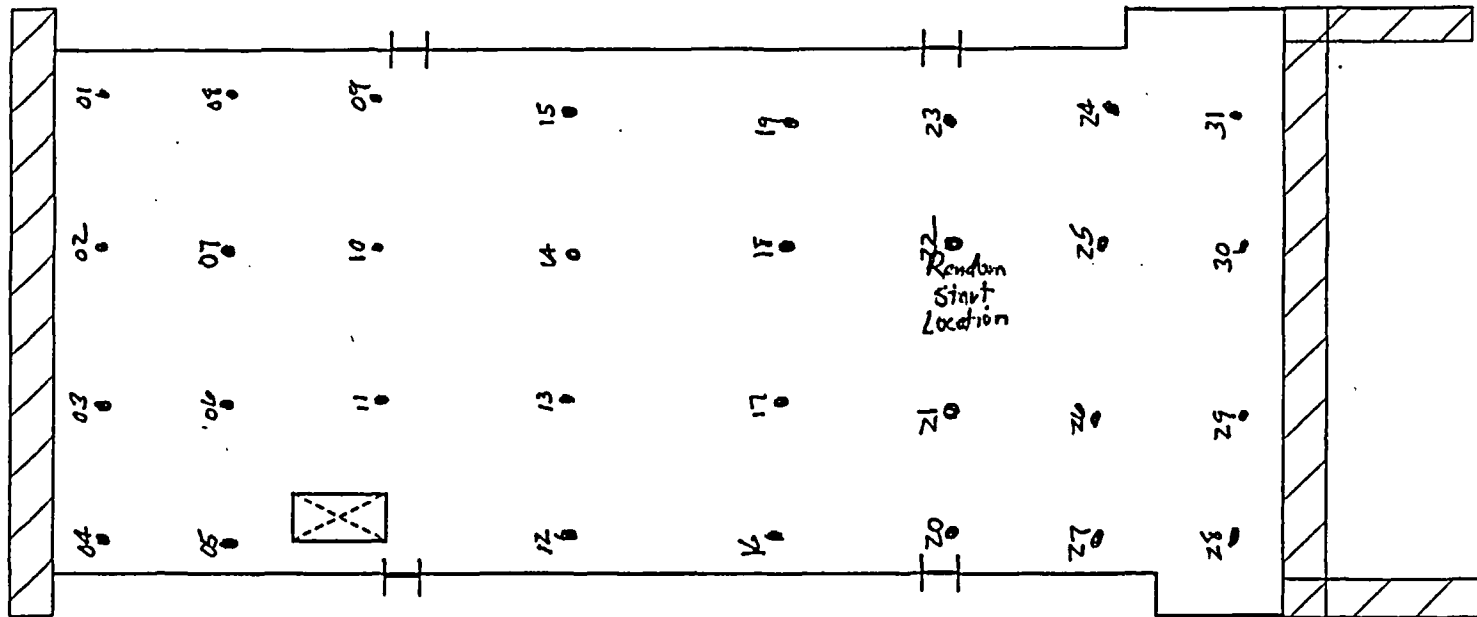
FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05037A
 Survey Unit Name: AB 37' Elevation - Pipeway Floor

Classification: Class 1
 Size (m²): 83

Static Measurement Locations Map

L = 1.7m (5' 7")



Survey performed IAW RP 452 Rev. 8 AB 37' Elev. Pipe Way Floor

Mark Eric [Signature]
 Survey Technician Date 12-11-2003

David R. [Signature]
 Survey Technician Date 12-11-2003

037A.sml.cad

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05037B Classification: Class 2
 Survey Unit Name: AB 37' Elevation - Pipeway Walls and Ceiling Size (m²): 101

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|-----------------------|------------|-------------------------|------------|-----|-----|
| 1 | 35 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 3.040e+002
 Maximum Value : 9.476e+002
 Range : 6.436e+002
 Median : 7.265e+002
 Std. Deviation : 1.495e+002
 Mean : 6.893e+002
 95% UCL : 7.320e+002

Measurement Values

| Location | Value | Location | Value | Location | Value |
|----------|------------|----------|------------|----------|------------|
| 000001 | 7.107e+002 | 000018 | 8.371e+002 | 000035 | 8.055e+002 |
| 000002 | 8.292e+002 | 000019 | 7.542e+002 | | |
| 000003 | 7.423e+002 | 000020 | 3.159e+002 | | |
| 000004 | 7.265e+002 | 000021 | 6.476e+002 | | |
| 000005 | 7.384e+002 | 000022 | 6.160e+002 | | |
| 000006 | 7.542e+002 | 000023 | 5.330e+002 | | |
| 000007 | 7.976e+002 | 000024 | 3.040e+002 | | |
| 000008 | 8.608e+002 | 000025 | 5.173e+002 | | |
| 000009 | 6.949e+002 | 000026 | 5.528e+002 | | |
| 000010 | 4.304e+002 | 000027 | 9.476e+002 | | |
| 000011 | 6.239e+002 | 000028 | 7.265e+002 | | |
| 000012 | 6.239e+002 | 000029 | 7.897e+002 | | |
| 000013 | 6.870e+002 | 000030 | 7.897e+002 | | |
| 000014 | 4.817e+002 | 000031 | 7.581e+002 | | |
| 000015 | 6.949e+002 | 000032 | 8.173e+002 | | |
| 000016 | 6.357e+002 | 000033 | 7.028e+002 | | |
| 000017 | 7.897e+002 | 000034 | 8.884e+002 | | |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05037B

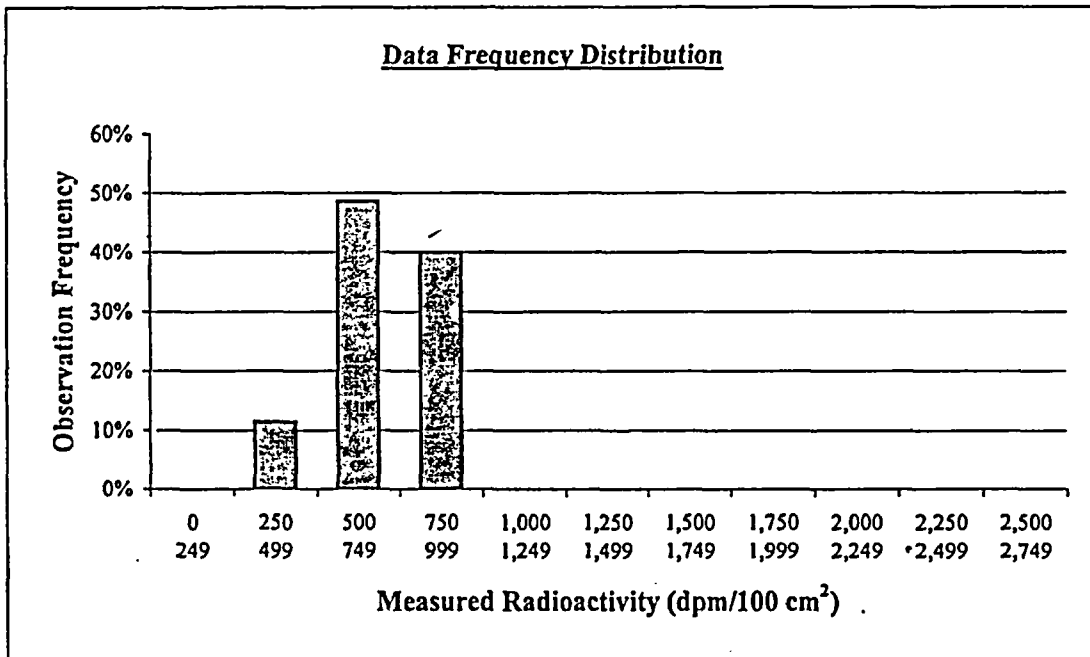
Classification: Class 2

Survey Unit Name: AB 37' Elevation – Pipeway Walls and Ceiling Size (m²): 101

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | | Statistical Quantities | |
|-------------------------|------------------|---------------------|-------------|------------------------|-------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? | Range: | 644 |
| Range | 644 | 748 | Pass | Median: | 727 |
| Median | 0.252 | 0.500 | Pass | Mean: | 689 |
| Mean | 689 | 6,000 | Pass | Std Dev: | 150 |
| Std Dev | 150 | 1,500 | Pass | Minimum: | 304 |
| | | | | Maximum: | 948 |
| | | | | DCGL: | 7,500 |

All data less than DCGL; Sign statistical test not required.



| Plot Parameters | | Interval | High End | Low End | Number of Observations | Observation Frequency |
|---------------------|-------|----------|----------|---------|------------------------|-----------------------|
| # of measurements: | 35 | 1 | 249 | 0 | 0 | 0% |
| # of intervals: | 11 | 2 | 499 | 250 | 4 | 11% |
| Interval increment: | 250 | 3 | 749 | 500 | 17 | 49% |
| Minimum: | 0 | 4 | 999 | 750 | 14 | 40% |
| Maximum: | 2,749 | 5 | 1,249 | 1,000 | 0 | 0% |
| | | 6 | 1,499 | 1,250 | 0 | 0% |
| | | 7 | 1,749 | 1,500 | 0 | 0% |
| | | 8 | 1,999 | 1,750 | 0 | 0% |
| | | 9 | 2,249 | 2,000 | 0 | 0% |
| | | 10 | 2,499 | 2,250 | 0 | 0% |
| | | 11 | 2,749 | 2,500 | 0 | 0% |
| | | Total: | | 35 | 100% | |

Comment:
NONE

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05037B **Classification:** Class 2
Survey Unit Name: AB 37' Elevation – Pipeway Walls and Ceiling **Size (m²):** 101

Judgmental and Miscellaneous Measurement Data

| | |
|--|-----------------------------------|
| Measurement Type: Surface Scanning Beta | Scan Coverage (%): 35 |
| Measurement Units: dpm/100cm ² | Investigation Level: 7,500 |
| Minimum Value: 931 | Maximum Value: 5,564 |

| | |
|--|-----------------------------------|
| Measurement Type: Removable Beta | Number of Measurements: 35 |
| Measurement Units: dpm/100cm ² | Investigation Level: 750 |
| Minimum Value: 3 | Maximum Value: 22 |

Discussion of Anomalous Measurement Data

Investigation Summary

Reason for Investigation: One scan measurement exceeded the investigation level.

Elevated Measurement Comparison (EMC):

| | |
|---|------------------------|
| DCGL (Investigation Level): | 7,500 |
| Measurement Units: | dpm/100cm ² |
| Maximum Value: | 7,927 |
| Size of Area Exceeding DCGL (m²): | N/A |
| Size of Survey Unit (m²): | N/A |
| Survey Unit Area >DCGL (%): | N/A |
| EMC Value: | N/A |

Action Taken: Corrected measurement value for scan location 034 per guidance in memo FS-018-03. Replaced original scan result in SDMS with this result, which corrected to less than the investigation level.

Basis for Action Taken: Technical basis memorandum FS-018-03 provides guidance for correcting SDMS determined scan results for locations that exceed the investigation level by subtracting instrument background from the field results.

FINAL SURVEY RESULTS SUMMARY

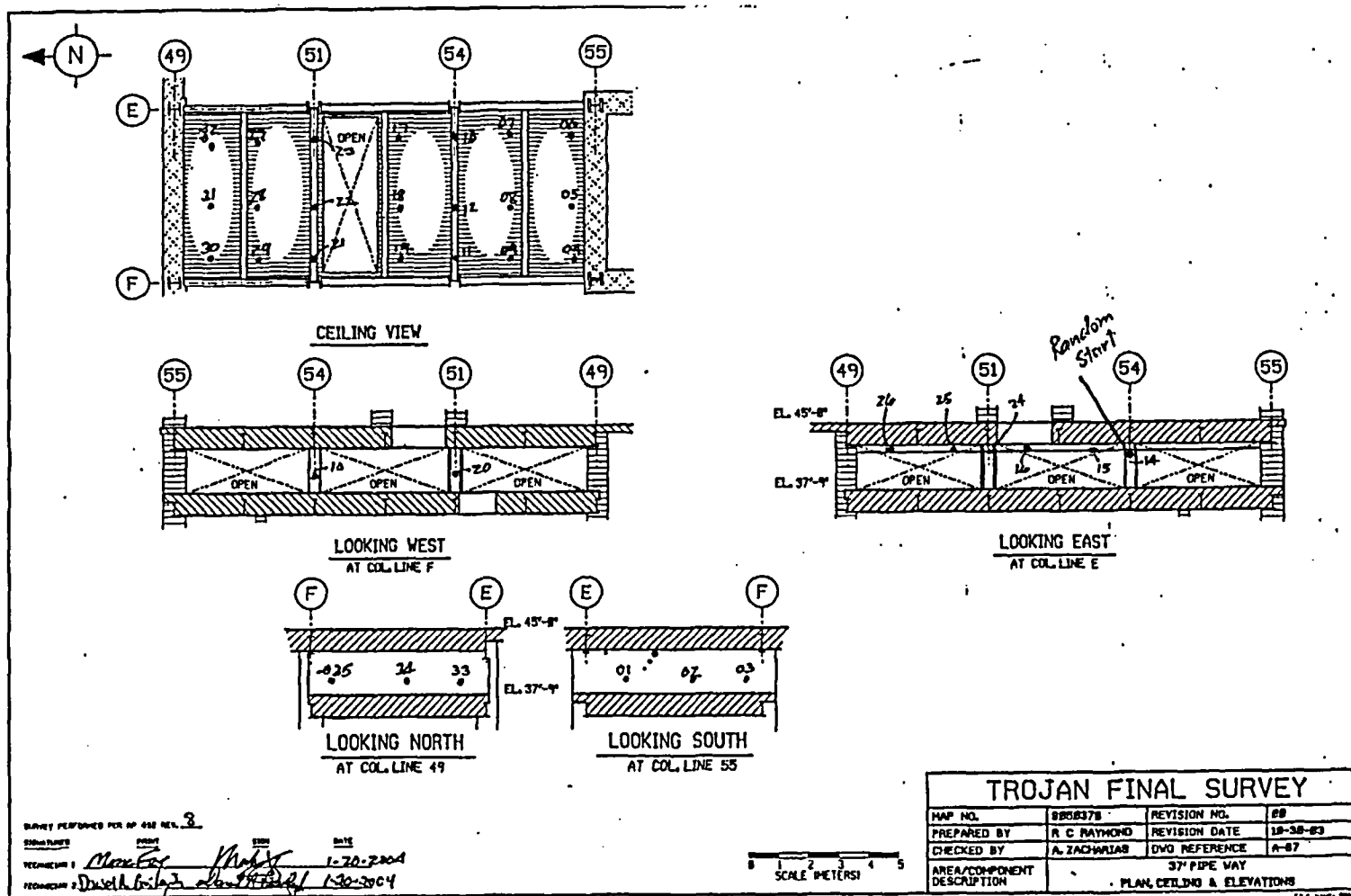
Survey Unit ID Code: S05037B

Survey Unit Name: AB 37' Elevation - Pipeway Walls and Ceiling

Classification: Class 2

Size (m²): 101

Static Measurement Locations Map



L = 1.8m (5' 11")

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05037C
 Survey Unit Name: AB 37' Elevation (to 77' Elevation)-
 Central Pipe Chase

Classification: Class 1
 Size (m²): 103

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|--------------------------|---------------|-------------------------|------------|-----|-----|
| 1 | 36 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 5.779e+002
 Maximum Value : 1.865e+003
 Range : 1.287e+003
 Median : 8.284e+002
 Std. Deviation : 2.284e+002
 Mean : 8.753e+002
 95% UCL : 9.396e+002

Measurement Values

| Location | Value | Location | Value | Location | Value |
|----------|------------|----------|------------|----------|------------|
| 000001 | 5.779e+002 | 000018 | 8.322e+002 | 000035 | 7.782e+002 |
| 000002 | 6.935e+002 | 000019 | 7.628e+002 | 000036 | 1.183e+003 |
| 000003 | 5.972e+002 | 000020 | 7.782e+002 | | |
| 000004 | 9.516e+002 | 000021 | 9.863e+002 | | |
| 000005 | 9.555e+002 | 000022 | 1.248e+003 | | |
| 000006 | 1.865e+003 | 000023 | 1.152e+003 | | |
| 000007 | 9.593e+002 | 000024 | 8.245e+002 | | |
| 000008 | 8.707e+002 | 000025 | 7.667e+002 | | |
| 000009 | 9.092e+002 | 000026 | 5.856e+002 | | |
| 000010 | 7.705e+002 | 000027 | 6.511e+002 | | |
| 000011 | 7.975e+002 | 000028 | 7.898e+002 | | |
| 000012 | 8.784e+002 | 000029 | 9.092e+002 | | |
| 000013 | 9.054e+002 | 000030 | 8.129e+002 | | |
| 000014 | 1.067e+003 | 000031 | 7.667e+002 | | |
| 000015 | 8.245e+002 | 000032 | 8.591e+002 | | |
| 000016 | 8.784e+002 | 000033 | 7.898e+002 | | |
| 000017 | 6.935e+002 | 000034 | 8.399e+002 | | |

FINAL SURVEY RESULTS SUMMARY

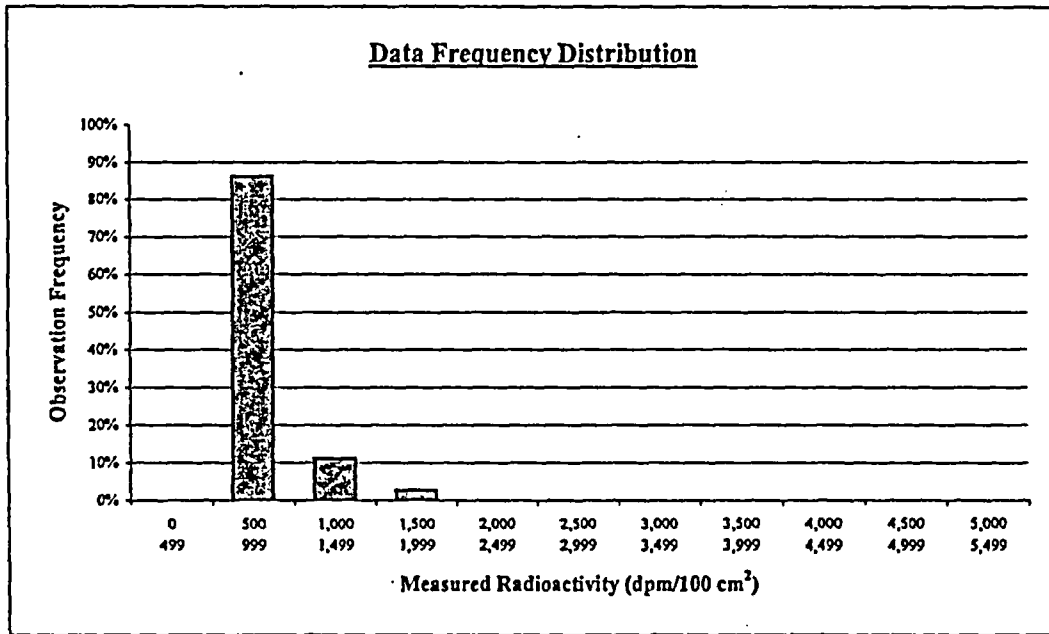
Survey Unit ID Code: S05037C
 Survey Unit Name: AB 37' Elevation (to 77' Elevation)-
 Central Pipe Chase

Classification: Class 1
 Size (m²): 103

Measurement Data Statistical Evaluation

| <u>Statistical Comparisons</u> | | | | <u>Statistical Quantities</u> | |
|--------------------------------|------------------|---------------------|-------------------|-------------------------------|-------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? | Range: | 1,287 |
| Range | 1,287 | 1,142 | See comment below | Median: | 828 |
| Median | 0.206 | 0.500 | Pass | Mean: | 875 |
| Mean | 875 | 6,000 | Pass | Std Dev: | 228 |
| Std Dev | 228 | 1,500 | Pass | Minimum: | 578 |
| | | | | Maximum: | 1,865 |
| | | | | DCGL: | 7,500 |

All data less than DCGL; Sign statistical test not required.



| <u>Plot Parameters</u> | | Interval | High End | Low End | Number of Observations | Observation Frequency |
|------------------------|-------|----------|----------|---------|------------------------|-----------------------|
| # of measurements: | 36 | 1 | 499 | 0 | 0 | 0% |
| # of intervals: | 11 | 2 | 999 | 500 | 31 | 86% |
| Interval increment: | 500 | 3 | 1,499 | 1,000 | 4 | 11% |
| Minimum: | 0 | 4 | 1,999 | 1,500 | 1 | 3% |
| Maximum: | 5,499 | 5 | 2,499 | 2,000 | 0 | 0% |
| | | 6 | 2,999 | 2,500 | 0 | 0% |
| | | 7 | 3,499 | 3,000 | 0 | 0% |
| | | 8 | 3,999 | 3,500 | 0 | 0% |
| | | 9 | 4,499 | 4,000 | 0 | 0% |
| | | 10 | 4,999 | 4,500 | 0 | 0% |
| | | 11 | 5,499 | 5,000 | 0 | 0% |
| | | | | | Total: | 36 100% |

Comment:
 Range failure is a test artifact due to a single measurement value of 1,865 dpm, with the other 35 values less than 1,300 dpm, resulting in a test value slightly greater than 5 times the standard deviation. All values are valid and accepted.

FINAL SURVEY RESULTS SUMMARY

| | |
|---|----------------------------------|
| Survey Unit ID Code: S05037C | Classification: Class 1 |
| Survey Unit Name: AB 37' Elevation (to 77' Elevation)– Central Pipe Chase | Size (m²): 103 |

Judgmental and Miscellaneous Measurement Data

| | |
|--|-----------------------------------|
| Measurement Type: Surface Scanning Beta | Scan Coverage (%): 100 |
| Measurement Units: dpm/100cm ² | Investigation Level: 7,500 |
| Minimum Value: 707 | Maximum Value: 16,420 |

| | |
|--|-----------------------------------|
| Measurement Type: Removable Beta | Number of Measurements: 36 |
| Measurement Units: dpm/100cm ² | Investigation Level: 750 |
| Minimum Value: 39 | Maximum Value: 86 |

Discussion of Anomalous Measurement Data

Investigation Summary

Reason for Investigation: Three scan measurements exceeded the investigation level.

Elevated Measurement Comparison (EMC):

| | |
|--|------------------------|
| DCGL (Investigation Level): | 7,500 |
| Measurement Units: | dpm/100cm ² |
| Maximum Value: | 45,130 |
| Size of Area Exceeding DCGL (m ²): | 0.03 |
| Size of Survey Unit (m ²): | 103 |
| Survey Unit Area >DCGL (%): | 0.03 |
| EMC Value: | 36,750 |

Action Taken: Deleted scan results for scan locations 130, 131, & 135. Remediated areas in scan locations and rescanned. Corrected measurement values for scan locations per guidance in memo FS-018-03. Replaced original scan results in SDMS with the corrected results.

Basis for Action Taken: Remediation was performed since elevated areas were inside pipe penetrations and their actual size could not be known. Technical basis memorandum FS-018-03 provides guidance for correcting SDMS determined scan results for locations that exceed the investigation level by subtracting instrument background from the field results.

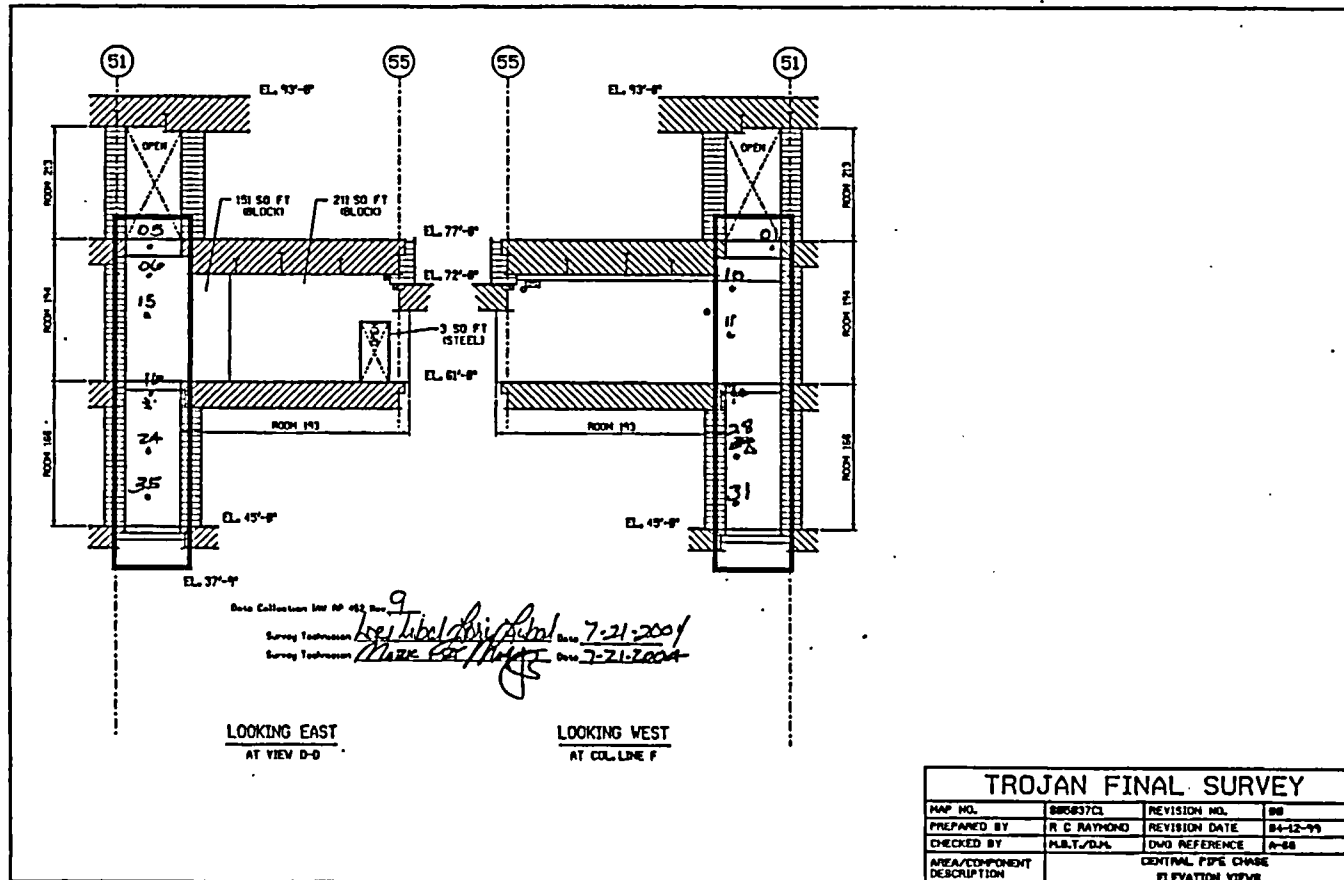
FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05037C
 Survey Unit Name: AB 37' Elevation (to 77' Elevation) - Central Pipe Chase

Classification: Class 1
 Size (m²): 103

Static Measurement Locations Map

*Static measurement locations
 L = 6'2"*



FINAL SURVEY RESULTS SUMMARY

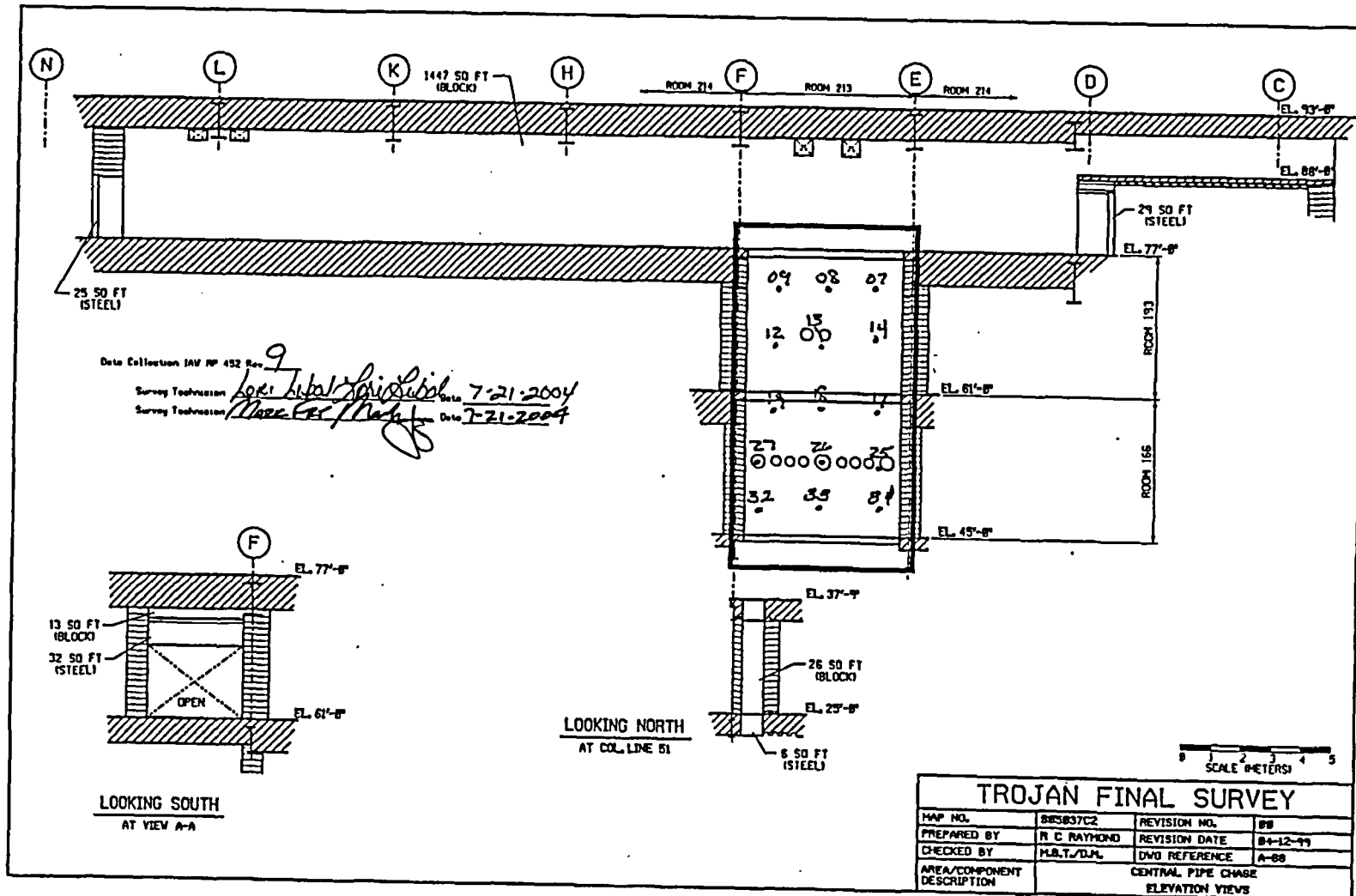
Survey Unit ID Code: S05037C

Survey Unit Name: AB 37' Elevation (to 77' Elevation) - Central Pipe Chase

Classification: Class 1

Size (m²): 103

Static Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

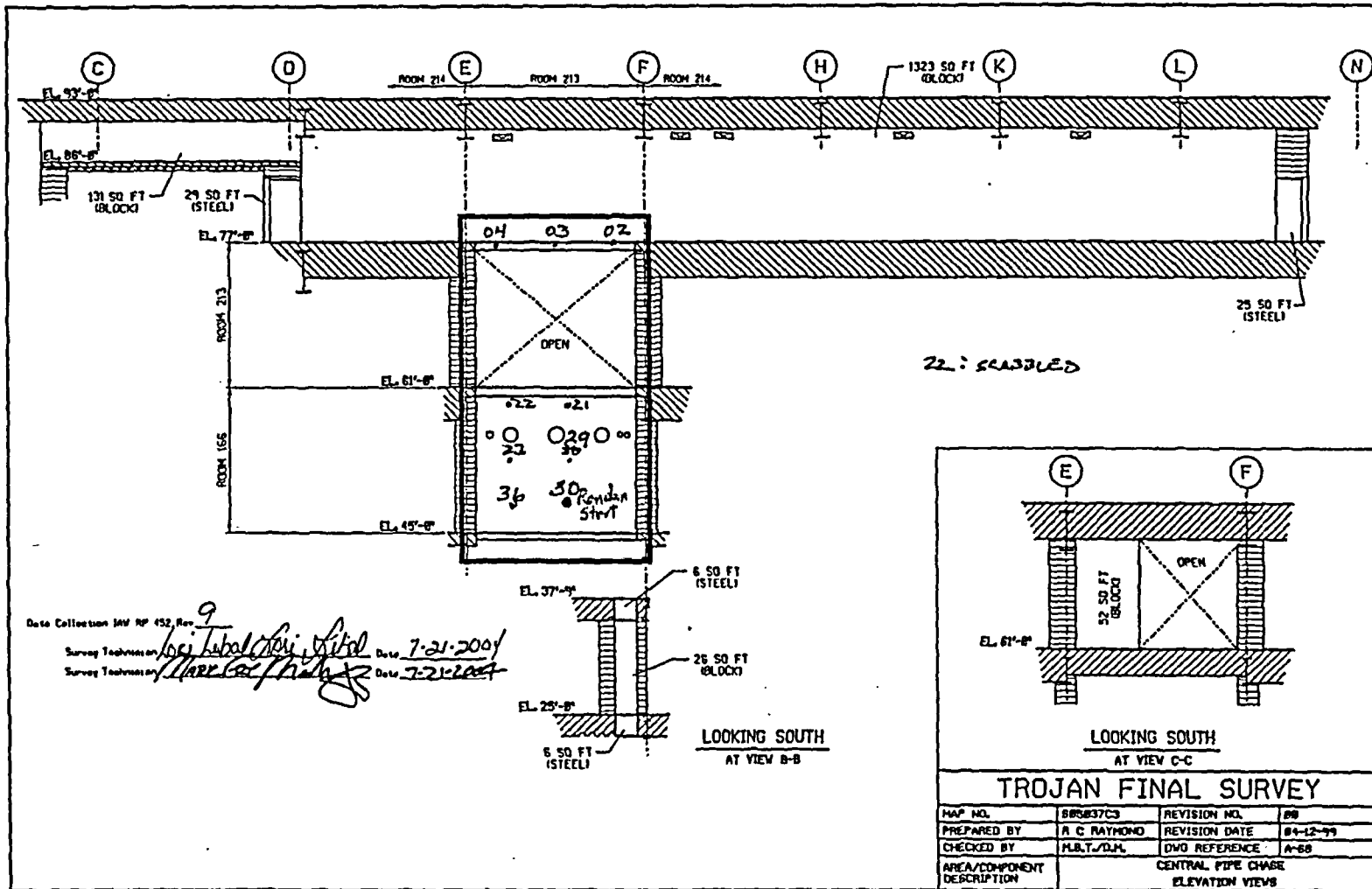
Survey Unit ID Code: S05037C

Survey Unit Name: AB 37' Elevation (to 77' Elevation) - Central Pipe Chase

Classification: Class 1

Size (m²): 103

Static Measurement Locations Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05044A

Classification: Class 2

Survey Unit Name: AB 25' Elevation -

Size (m²): 28

Reciprocating Charging Pump Room Ceiling

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|-----------------------|------------|-------------------------|------------|-----|-----|
| 1 | 30 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 6.846e+002
 Maximum Value : 1.237e+003
 Range : 5.524e+002
 Median : 8.908e+002
 Std. Deviation : 1.130e+002
 Mean : 8.932e+002
 95% UCL : 9.282e+002

Measurement Values

| Location | Value | Location | Value |
|----------|------------|----------|------------|
| 000001 | 7.372e+002 | 000018 | 1.027e+003 |
| 000002 | 9.303e+002 | 000019 | 9.040e+002 |
| 000003 | 1.071e+003 | 000020 | 9.128e+002 |
| 000004 | 9.040e+002 | 000021 | 1.237e+003 |
| 000005 | 9.479e+002 | 000022 | 1.027e+003 |
| 000006 | 6.846e+002 | 000023 | 8.864e+002 |
| 000007 | 8.864e+002 | 000024 | 8.952e+002 |
| 000008 | 8.689e+002 | 000025 | 8.952e+002 |
| 000009 | 9.479e+002 | 000026 | 8.250e+002 |
| 000010 | 7.987e+002 | 000027 | 7.987e+002 |
| 000011 | 8.338e+002 | 000028 | 7.197e+002 |
| 000012 | 7.811e+002 | 000029 | 8.162e+002 |
| 000013 | 9.654e+002 | 000030 | 9.830e+002 |
| 000014 | 8.601e+002 | | |
| 000015 | 8.074e+002 | | |
| 000016 | 8.513e+002 | | |
| 000017 | 9.918e+002 | | |

FINAL SURVEY RESULTS SUMMARY

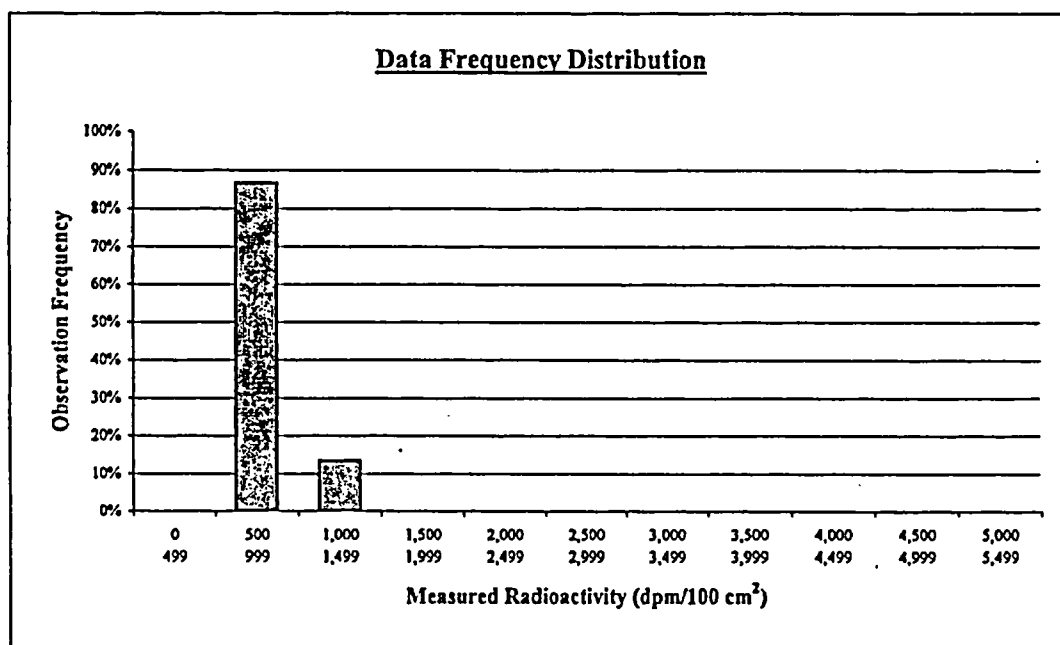
Survey Unit ID Code: S05044A
 Survey Unit Name: AB 25' Elevation –
 Reciprocating Charging Pump Room Ceiling

Classification: Class 2
 Size (m²): 28

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | | Statistical Quantities | |
|-------------------------|------------------|---------------------|-------------|------------------------|-------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? | | |
| Range | 552 | 565 | Pass | Range: | 552 |
| Median | 0.023 | 0.500 | Pass | Median: | 891 |
| Mean | 893 | 7,500 | Pass | Mean: | 893 |
| Std Dev | 113 | 1,500 | Pass | Std Dev: | 113 |
| | | | | Minimum: | 685 |
| | | | | Maximum: | 1,237 |
| | | | | DCGL: | 7,500 |

All data less than DCGL; Sign statistical test not required.



| Plot Parameters | | Number of Observations | | | | Observation Frequency |
|---------------------|-------|------------------------|----------|---------|--------------|-----------------------|
| | | Interval | High End | Low End | Observations | Frequency |
| # of measurements: | 30 | 1 | 499 | 0 | 0 | 0% |
| # of intervals: | 11 | 2 | 999 | 500 | 26 | 87% |
| Interval increment: | 500 | 3 | 1,499 | 1,000 | 4 | 13% |
| Minimum: | 0 | 4 | 1,999 | 1,500 | 0 | 0% |
| Maximum: | 5,499 | 5 | 2,499 | 2,000 | 0 | 0% |
| | | 6 | 2,999 | 2,500 | 0 | 0% |
| | | 7 | 3,499 | 3,000 | 0 | 0% |
| | | 8 | 3,999 | 3,500 | 0 | 0% |
| | | 9 | 4,499 | 4,000 | 0 | 0% |
| | | 10 | 4,999 | 4,500 | 0 | 0% |
| | | 11 | 5,499 | 5,000 | 0 | 0% |
| | | Total: | | | 30 | 100% |

Comment:
None.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05044A

Classification: Class 2

Survey Unit Name: AB 25' Elevation –

Size (m²): 28

Reciprocating Charging Pump Room Ceiling

Judgmental and Miscellaneous Measurement Data

Measurement Type: Surface Scanning Beta

Scan Coverage (%): 35

Measurement Units: dpm/100cm²

Investigation Level: 7,500

Minimum Value: 1,129

Maximum Value: 1,321

Measurement Type: Removable Beta

Number of Measurements: 30

Measurement Units: dpm/100cm²

Investigation Level: 750

Minimum Value: 2

Maximum Value: 21

Discussion of Anomalous Measurement Data

Investigation Summary

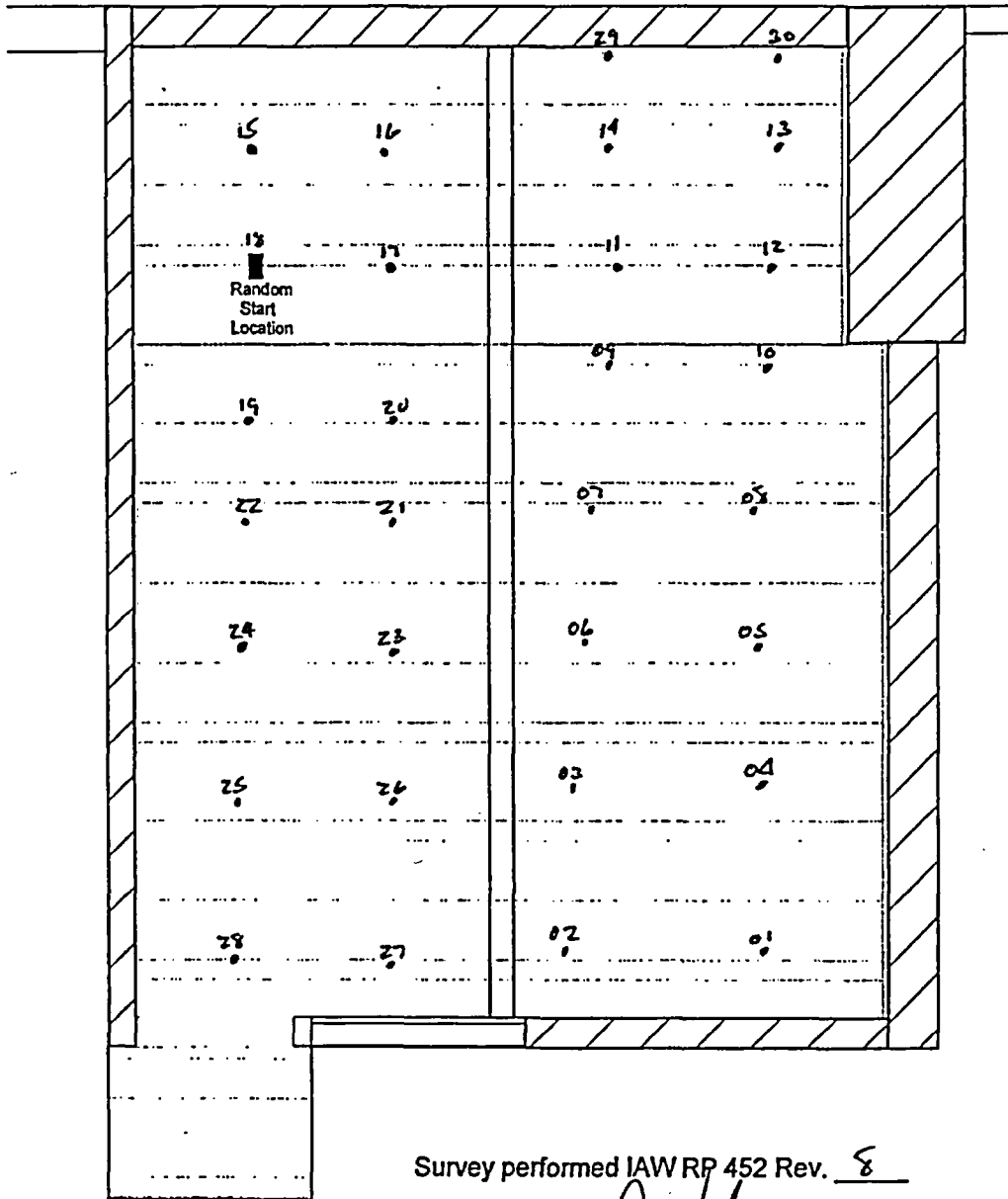
No investigation required for this survey unit. No anomalous measurement data.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05044A
Survey Unit Name: AB 25' Elevation -
Reciprocating Charging Pump Room Ceiling

Classification: Class 2
Size (m²): 28

Static Measurement Locations Map



Survey performed IAW RP 452 Rev. 8

Ron Keator
Survey Technician 12-19-2004
Date

Mark Gray
Survey Technician 12-19-2004
Date

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05044B
 Survey Unit Name: AB 25' Elevation -
 Sodium Hydroxide Tank Room Ceiling

Classification: Class 2
 Size (m²): 34

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|-----------------------|------------|-------------------------|------------|-----|-----|
| 1 | 30 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 5.178e+002
 Maximum Value : 1.044e+003
 Range : 5.262e+002
 Median : 7.548e+002
 Std. Deviation : 1.515e+002
 Mean : 7.741e+002
 95% UCL : 8.210e+002

Measurement Values

| Location | Value | Location | Value |
|----------|------------|----------|------------|
| 000001 | 6.758e+002 | 000018 | 7.197e+002 |
| 000002 | 8.162e+002 | 000019 | 5.968e+002 |
| 000003 | 6.495e+002 | 000020 | 6.495e+002 |
| 000004 | 6.758e+002 | 000021 | 1.018e+003 |
| 000005 | 9.040e+002 | 000022 | 9.215e+002 |
| 000006 | 5.793e+002 | 000023 | 5.880e+002 |
| 000007 | 8.513e+002 | 000024 | 7.109e+002 |
| 000008 | 8.250e+002 | 000025 | 9.566e+002 |
| 000009 | 6.319e+002 | 000026 | 9.303e+002 |
| 000010 | 6.933e+002 | 000027 | 9.654e+002 |
| 000011 | 5.529e+002 | 000028 | 9.040e+002 |
| 000012 | 6.670e+002 | 000029 | 9.830e+002 |
| 000013 | 7.109e+002 | 000030 | 1.044e+003 |
| 000014 | 7.899e+002 | | |
| 000015 | 8.601e+002 | | |
| 000016 | 8.338e+002 | | |
| 000017 | 5.178e+002 | | |

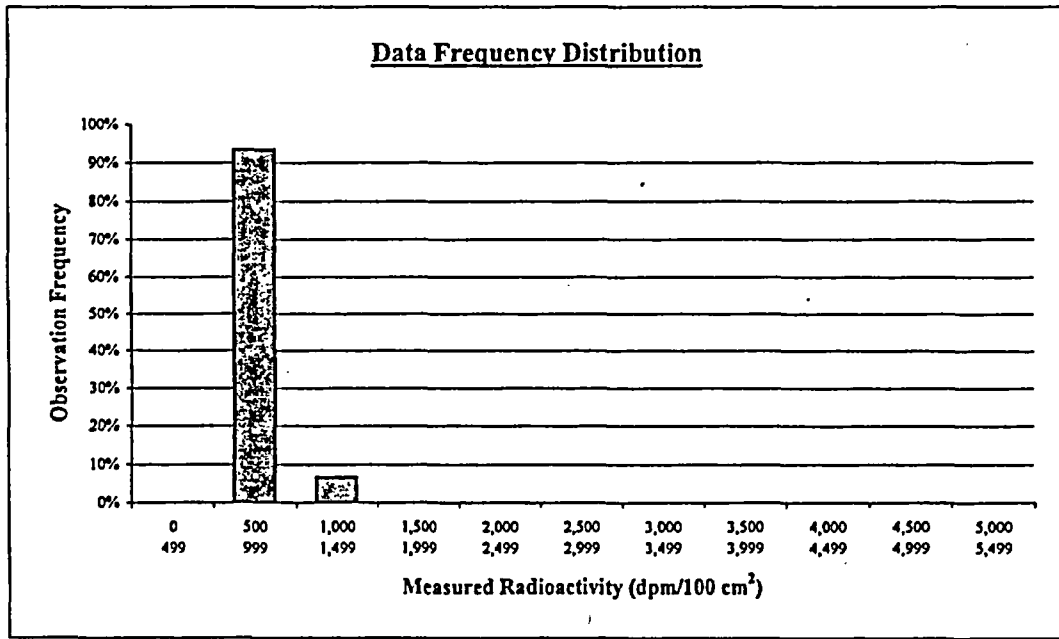
FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05044B
 Survey Unit Name: AB 25' Elevation -
 Sodium Hydroxide Tank Room Ceiling

Classification: Class 2
 Size (m²): 34

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | | Statistical Quantities | |
|--|------------------|---------------------|-------------|------------------------|-------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? | Range: | 526 |
| Range | 526 | 757 | Pass | Median: | 755 |
| Median | 0.126 | 0.500 | Pass | Mean: | 774 |
| Mean | 774 | 6,000 | Pass | Std Dev: | 151 |
| Std Dev | 151 | 1,500 | Pass | Minimum: | 518 |
| | | | | Maximum: | 1,044 |
| All data less than DCGL; Sign statistical test not required. | | | | DCGL: | 7,500 |



| Plot Parameters | | Interval | High End | Low End | Number of Observations | Observation Frequency |
|---------------------|-------|---------------|----------|---------|------------------------|-----------------------|
| # of measurements: | 30 | 1 | 499 | 0 | 0 | 0% |
| # of intervals: | 11 | 2 | 999 | 500 | 28 | 93% |
| Interval increment: | 500 | 3 | 1,499 | 1,000 | 2 | 7% |
| Minimum: | 0 | 4 | 1,999 | 1,500 | 0 | 0% |
| Maximum: | 5,499 | 5 | 2,499 | 2,000 | 0 | 0% |
| | | 6 | 2,999 | 2,500 | 0 | 0% |
| | | 7 | 3,499 | 3,000 | 0 | 0% |
| | | 8 | 3,999 | 3,500 | 0 | 0% |
| | | 9 | 4,499 | 4,000 | 0 | 0% |
| | | 10 | 4,999 | 4,500 | 0 | 0% |
| | | 11 | 5,499 | 5,000 | 0 | 0% |
| | | Total: | | | 30 | 100% |

Comment:
None.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05044B

Classification: Class 2

Survey Unit Name: AB 25' Elevation –
Sodium Hydroxide Tank Room Ceiling

Size (m²): 34

Judgmental and Miscellaneous Measurement Data

Measurement Type: Surface Scanning Beta

Scan Coverage (%): 35

Measurement Units: dpm/100cm²

Investigation Level: 7,500

Minimum Value: 1,055

Maximum Value: 1,419

Measurement Type: Removable Beta

Number of Measurements: 30

Measurement Units: dpm/100cm²

Investigation Level: 750

Minimum Value: 3

Maximum Value: 21

Discussion of Anomalous Measurement Data

Investigation Summary

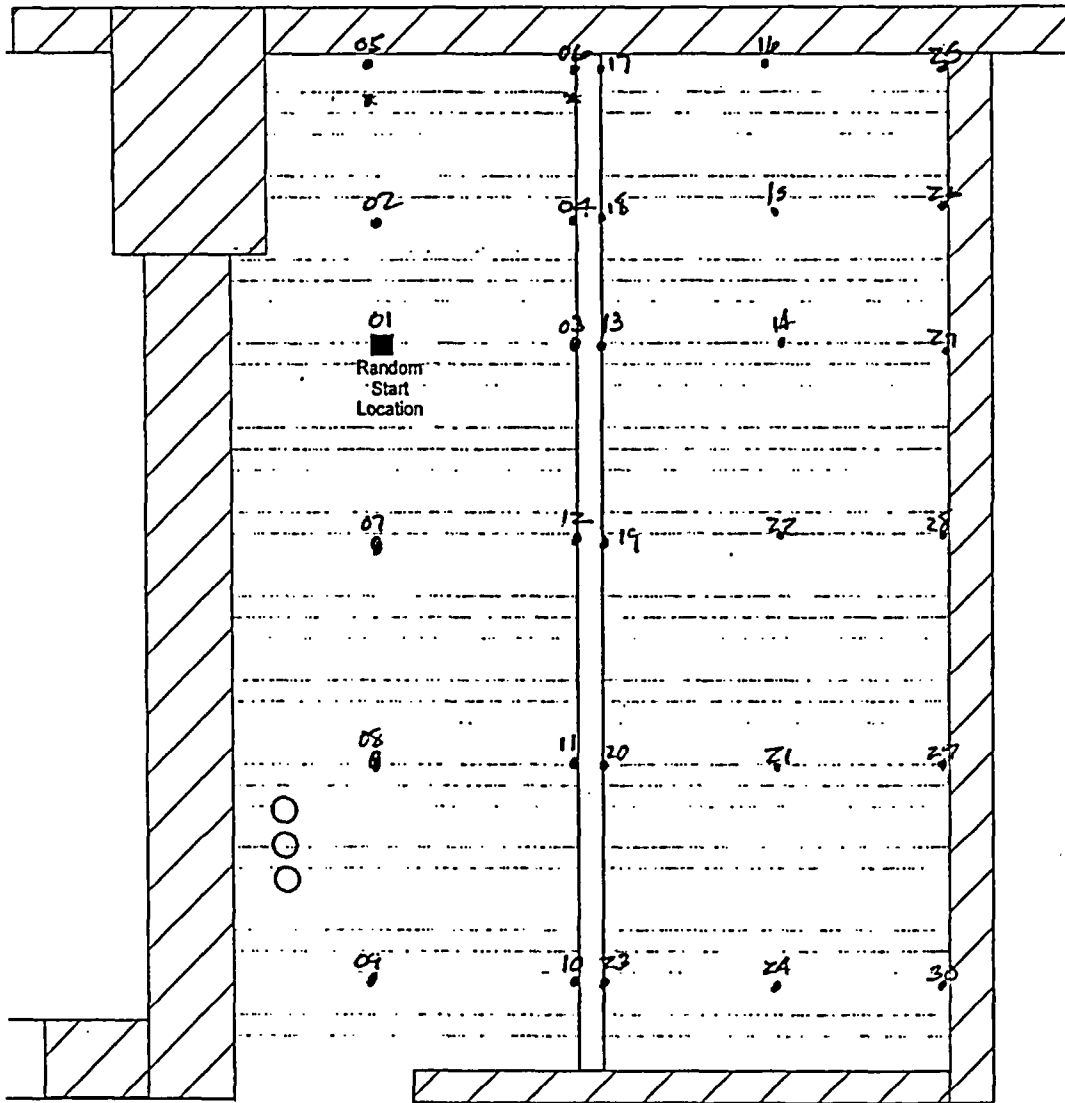
No investigation required for this survey unit. No anomalous measurement data.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05044B
Survey Unit Name: AB 25' Elevation -
Sodium Hydroxide Tank Room Ceiling

Classification: Class 2
Size (m²): 34

Static Measurement Locations Map



Ceiling View

Survey performed IAW RP 452 Rev. 8

Paul Keating
Survey Technician Date 12-19-2004

Mark Fay
Survey Technician Date 12-19-2004

044Bsm1.cad

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05044C

Classification: Class 2

Survey Unit Name: AB 25' Elevation -

Size (m²): 30

East Valve Gallery/RCDT Rooms Ceilings

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|-----------------------|------------|-------------------------|------------|-----|-----|
| 1 | 30 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 5.705e+002
 Maximum Value : 1.334e+003
 Range : 7.635e+002
 Median : 8.118e+002
 Std. Deviation : 1.680e+002
 Mean : 8.226e+002
 95% UCL : 8.747e+002

Measurement Values

| Location | Value | Location | Value |
|----------|------------|----------|------------|
| 000001 | 7.636e+002 | 000018 | 7.548e+002 |
| 000002 | 8.777e+002 | 000019 | 5.968e+002 |
| 000003 | 8.162e+002 | 000020 | 6.495e+002 |
| 000004 | 7.197e+002 | 000021 | 9.215e+002 |
| 000005 | 1.334e+003 | 000022 | 7.285e+002 |
| 000006 | 8.338e+002 | 000023 | 7.723e+002 |
| 000007 | 7.285e+002 | 000024 | 6.670e+002 |
| 000008 | 8.864e+002 | 000025 | 6.670e+002 |
| 000009 | 1.123e+003 | 000026 | 6.056e+002 |
| 000010 | 1.009e+003 | 000027 | 9.040e+002 |
| 000011 | 1.027e+003 | 000028 | 9.040e+002 |
| 000012 | 1.062e+003 | 000029 | 8.338e+002 |
| 000013 | 6.933e+002 | 000030 | 8.250e+002 |
| 000014 | 5.705e+002 | | |
| 000015 | 8.513e+002 | | |
| 000016 | 8.074e+002 | | |
| 000017 | 7.460e+002 | | |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05044C
 Survey Unit Name: AB 25' Elevation -
 East Valve Gallery/RCDT Rooms Ceilings

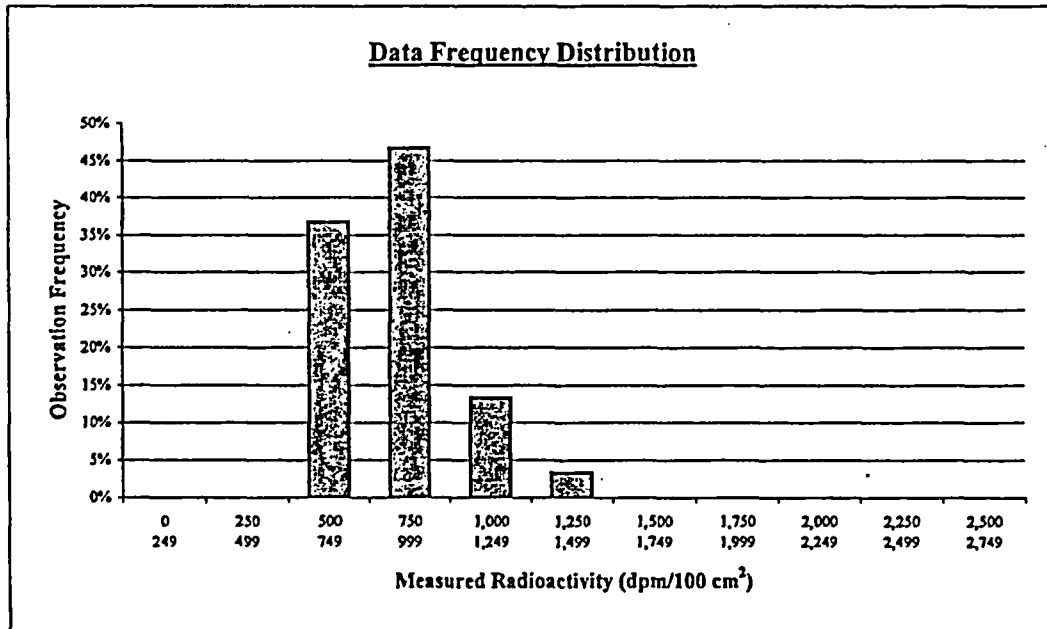
Classification: Class 2
 Size (m²): 30

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | |
|-------------------------|------------------|---------------------|-------------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? |
| Range | 763 | 840 | Pass |
| Median | 0.067 | 0.500 | Pass |
| Mean | 823 | 6,000 | Pass |
| Std Dev | 168 | 1,500 | Pass |

| Statistical Quantities | |
|------------------------|-------|
| Range: | 763 |
| Median: | 812 |
| Mean: | 823 |
| Std Dev: | 168 |
| Minimum: | 571 |
| Maximum: | 1,334 |
| DCGL: | 7,500 |

All data less than DCGL; Sign statistical test not required.



| Plot Parameters | |
|---------------------|-------|
| # of measurements: | 30 |
| # of intervals: | 11 |
| Interval increment: | 250 |
| Minimum: | 0 |
| Maximum: | 2,749 |

Comment:
None.

| Interval | High End | Low End | Number of Observations | Observation Frequency |
|----------|----------|---------|------------------------|-----------------------|
| 1 | 249 | 0 | 0 | 0% |
| 2 | 499 | 250 | 0 | 0% |
| 3 | 749 | 500 | 11 | 37% |
| 4 | 999 | 750 | 14 | 47% |
| 5 | 1,249 | 1,000 | 4 | 13% |
| 6 | 1,499 | 1,250 | 1 | 3% |
| 7 | 1,749 | 1,500 | 0 | 0% |
| 8 | 1,999 | 1,750 | 0 | 0% |
| 9 | 2,249 | 2,000 | 0 | 0% |
| 10 | 2,499 | 2,250 | 0 | 0% |
| 11 | 2,749 | 2,500 | 0 | 0% |
| Total: | | | 30 | 100% |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05044C

Classification: Class 2

Survey Unit Name: AB 25' Elevation –

Size (m²): 30

East Valve Gallery/RCDT Rooms Ceilings

Judgmental and Miscellaneous Measurement Data

Measurement Type: Surface Scanning Beta

Scan Coverage (%): 35

Measurement Units: dpm/100cm²

Investigation Level: 7,500

Minimum Value: 1,154

Maximum Value: 1,452

Measurement Type: Removable Beta

Number of Measurements: 30

Measurement Units: dpm/100cm²

Investigation Level: 750

Minimum Value: 3

Maximum Value: 21

Discussion of Anomalous Measurement Data

Investigation Summary

No investigation required for this survey unit. No anomalous measurement data.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05044C

Survey Unit Name: AB 25' Elevation - East Valve Gallery/RCDT Rooms Ceilings

Classification: Class 2

Size (m²): 30

Static Measurement Locations Map

Survey performed IAW RP 452 Rev. 8

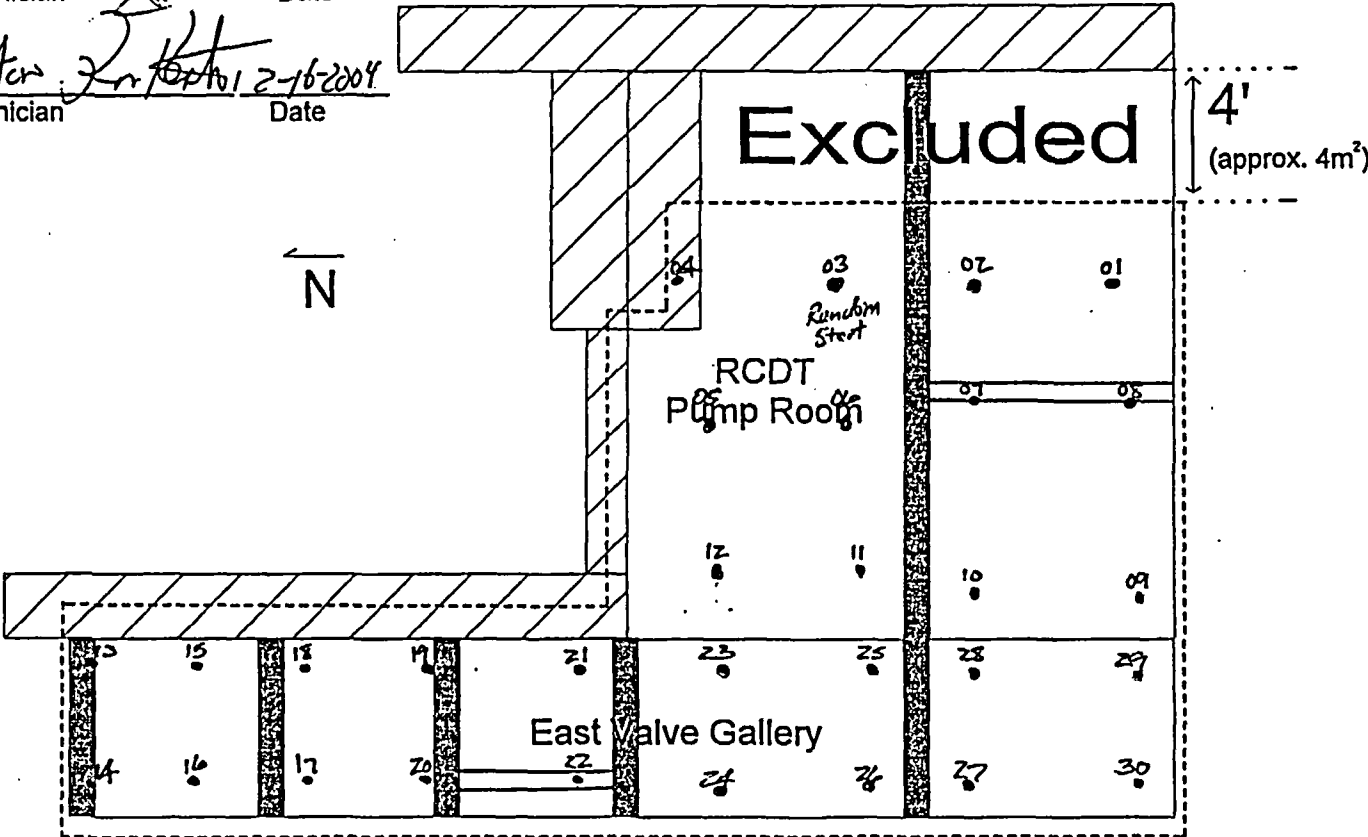
Final Survey Unit
S05044C

Static Measurement Locations

[Signature]
Survey Technician Date

[Signature]
Survey Technician Date

L = 1.0 m



Ceiling View

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05044D

Classification: Class 1

Survey Unit Name: AB 25' Elevation -

Size (m²): 34

West Valve Gallery/BIT Rooms Ceiling

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|-----------------------|------------|-------------------------|------------|-----|-----|
| 1 | 32 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 7.899e+002
 Maximum Value : 1.229e+003
 Range : 4.391e+002
 Median : 9.830e+002
 Std. Deviation : 1.053e+002
 Mean : 9.934e+002
 95% UCL : 1.025e+003

Measurement Values

| Location | Value | Location | Value |
|----------|------------|----------|------------|
| 000001 | 1.027e+003 | 000018 | 1.009e+003 |
| 000002 | 9.128e+002 | 000019 | 1.018e+003 |
| 000003 | 9.566e+002 | 000020 | 9.830e+002 |
| 000004 | 8.162e+002 | 000021 | 1.185e+003 |
| 000005 | 1.027e+003 | 000022 | 9.830e+002 |
| 000006 | 8.777e+002 | 000023 | 1.229e+003 |
| 000007 | 1.123e+003 | 000024 | 1.150e+003 |
| 000008 | 9.830e+002 | 000025 | 9.830e+002 |
| 000009 | 7.899e+002 | 000026 | 1.053e+003 |
| 000010 | 1.080e+003 | 000027 | 1.062e+003 |
| 000011 | 1.123e+003 | 000028 | 9.918e+002 |
| 000012 | 1.044e+003 | 000029 | 9.391e+002 |
| 000013 | 8.601e+002 | 000030 | 9.566e+002 |
| 000014 | 9.128e+002 | 000031 | 9.128e+002 |
| 000015 | 1.080e+003 | 000032 | 8.162e+002 |
| 000016 | 9.391e+002 | | |
| 000017 | 9.654e+002 | | |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05044D
Survey Unit Name: AB 25' Elevation -
 West Valve Gallery/BIT Rooms Ceiling

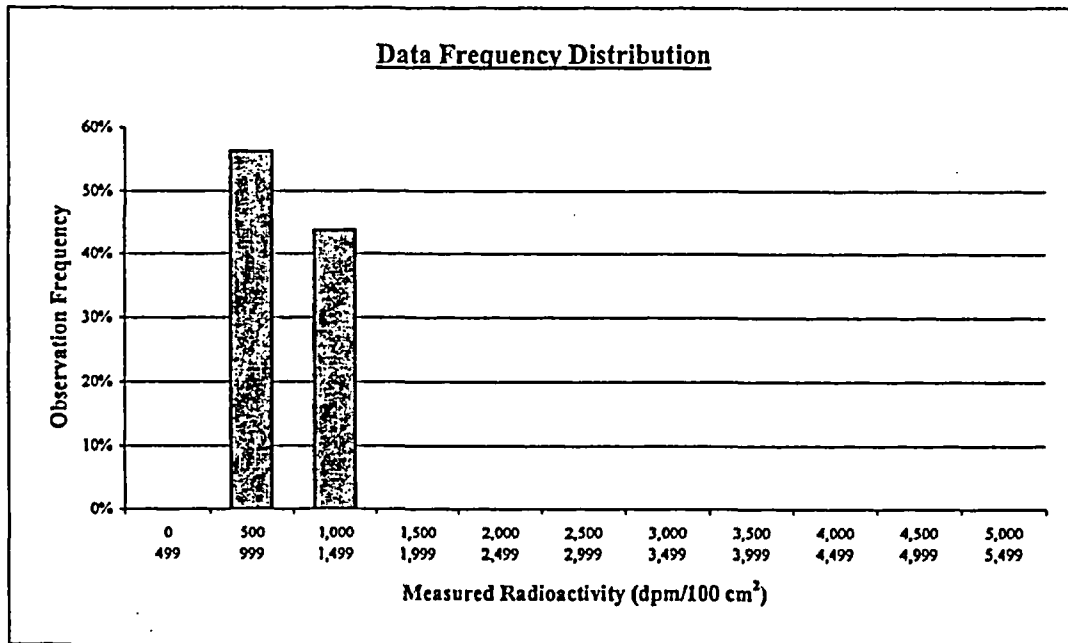
Classification: Class 1
Size (m²): 34

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | |
|-------------------------|------------------|---------------------|-------------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? |
| Range | 440 | 527 | Pass |
| Median | 0.099 | 0.500 | Pass |
| Mean | 993 | 6,000 | Pass |
| Std Dev | 105 | 1,500 | Pass |

| Statistical Quantities | |
|------------------------|-------|
| Range: | 440 |
| Median: | 983 |
| Mean: | 993 |
| Std Dev: | 105 |
| Minimum: | 790 |
| Maximum: | 1,230 |
| DCGL: | 7,500 |

All data less than DCGL; Sign statistical test not required.



| Plot Parameters | |
|---------------------|-------|
| # of measurements: | 32 |
| # of intervals: | 11 |
| Interval increment: | 500 |
| Minimum: | 0 |
| Maximum: | 5,499 |

Comment:
None.

| Interval | High End | Low End | Number of Observations | Observation Frequency |
|----------|----------|---------|------------------------|-----------------------|
| 1 | 499 | 0 | 0 | 0% |
| 2 | 999 | 500 | 18 | 56% |
| 3 | 1,499 | 1,000 | 14 | 44% |
| 4 | 1,999 | 1,500 | 0 | 0% |
| 5 | 2,499 | 2,000 | 0 | 0% |
| 6 | 2,999 | 2,500 | 0 | 0% |
| 7 | 3,499 | 3,000 | 0 | 0% |
| 8 | 3,999 | 3,500 | 0 | 0% |
| 9 | 4,499 | 4,000 | 0 | 0% |
| 10 | 4,999 | 4,500 | 0 | 0% |
| 11 | 5,499 | 5,000 | 0 | 0% |
| Total: | | | 32 | 100% |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05044D

Classification: Class 1

Survey Unit Name: AB 25' Elevation –

Size (m²): 34

West Valve Gallery/BIT Rooms Ceiling

Judgmental and Miscellaneous Measurement Data

Measurement Type: Surface Scanning Beta

Scan Coverage (%): 100

Measurement Units: dpm/100cm²

Investigation Level: 7,500

Minimum Value: 950

Maximum Value: 13,340

Measurement Type: Removable Beta

Number of Measurements: 32

Measurement Units: dpm/100cm²

Investigation Level: 750

Minimum Value: 4

Maximum Value: 24

Discussion of Anomalous Measurement Data

Investigation Summary

Reason for Investigation: Three scan measurements exceeded the investigation level.

Elevated Measurement Comparison (EMC):

| | |
|---|------------------------|
| DCGL (Investigation Level): | 7,500 |
| Measurement Units: | dpm/100cm ² |
| Maximum Value: | 13,340 |
| Size of Area Exceeding DCGL (m²): | 0.016 |
| Size of Survey Unit (m²): | 34 |
| Survey Unit Area >DCGL (%): | 0.046 |
| EMC Value: | 36,750 |

Action Taken: Reclassified survey unit from Class 2 to Class 1. Accepted scan surveys performed. Applied EMC data processing to result at scan location 005. Scanned remainder of survey unit (100% scan coverage).

Basis for Action Taken: A single small area of elevated residual radioactivity identified during scan survey, resulting in reclassification from Class 2 to Class 1. With survey unit reclassified, and remaining areas scanned, the original scan results are acceptable for final survey record.

FINAL SURVEY RESULTS SUMMARY

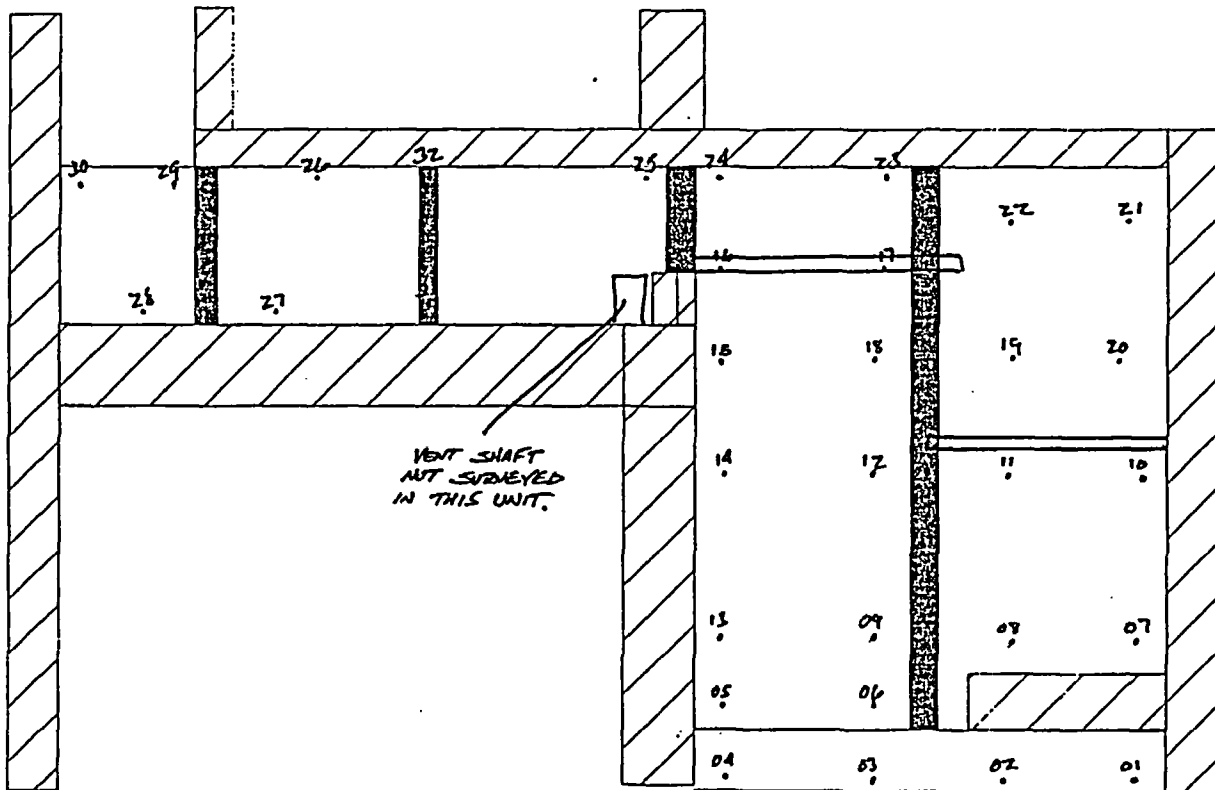
Survey Unit ID Code: S05044D

Survey Unit Name: AB 25' Elevation - West Valve Gallery/BIT Rooms Ceiling

Classification: Class 1

Size (m²): 34

Static Measurement Locations Map



Survey performed IAW RP 452 Rev. 8

Row Keata
Survey Technician Date 2-17-2004

Mark Eric
Survey Technician Date 2-17-2004

CEILING VIEW

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05044E
 Survey Unit Name: AB 25' Elevation -
 South "A" CCP Room Ceiling

Classification: Class 2
 Size (m²): 43

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|-----------------------|------------|-------------------------|------------|-----|-----|
| 1 | 33 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 6.319e+002
 Maximum Value : 1.088e+003
 Range : 4.561e+002
 Median : 8.513e+002
 Std. Deviation : 1.188e+002
 Mean : 8.580e+002
 95% UCL : 8.930e+002

Measurement Values

| Location | Value | Location | Value |
|----------|------------|----------|------------|
| 000001 | 7.548e+002 | 000018 | 1.053e+003 |
| 000002 | 7.197e+002 | 000019 | 8.952e+002 |
| 000003 | 7.899e+002 | 000020 | 7.987e+002 |
| 000004 | 7.987e+002 | 000021 | 8.689e+002 |
| 000005 | 8.689e+002 | 000022 | 9.742e+002 |
| 000006 | 7.723e+002 | 000023 | 1.001e+003 |
| 000007 | 8.513e+002 | 000024 | 1.062e+003 |
| 000008 | 7.987e+002 | 000025 | 8.864e+002 |
| 000009 | 7.987e+002 | 000026 | 6.495e+002 |
| 000010 | 1.062e+003 | 000027 | 6.319e+002 |
| 000011 | 8.952e+002 | 000028 | 8.864e+002 |
| 000012 | 9.566e+002 | 000029 | 7.636e+002 |
| 000013 | 9.040e+002 | 000030 | 7.636e+002 |
| 000014 | 8.074e+002 | 000031 | 8.338e+002 |
| 000015 | 6.846e+002 | 000032 | 9.918e+002 |
| 000016 | 9.128e+002 | 000033 | 7.899e+002 |
| 000017 | 1.088e+003 | | |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05044E
 Survey Unit Name: AB 25' Elevation -
 South "A" CCP Room Ceiling

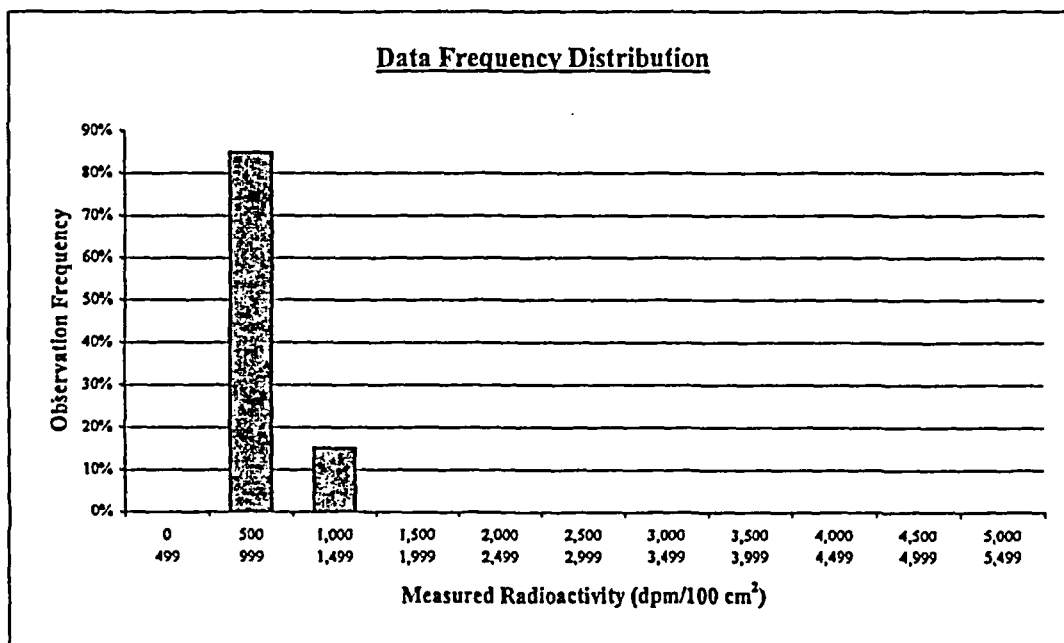
Classification: Class 2
 Size (m²): 43

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | |
|-------------------------|------------------|---------------------|-------------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? |
| Range | 456 | 594 | Pass |
| Median | 0.059 | 0.500 | Pass |
| Mean | 858 | 6,000 | Pass |
| Std Dev | 119 | 1,500 | Pass |

All data less than DCGL; Sign statistical test not required.

| Statistical Quantities | |
|------------------------|-------|
| Range: | 456 |
| Median: | 851 |
| Mean: | 858 |
| Std Dev: | 119 |
| Minimum: | 632 |
| Maximum: | 1,088 |
| DCGL: | 7,500 |



| Plot Parameters | Interval | High End | Low End | Number of Observations | Observation Frequency |
|---------------------|----------|----------|---------|------------------------|-----------------------|
| # of measurements: | 1 | 499 | 0 | 0 | 0% |
| # of intervals: | 2 | 999 | 500 | 28 | 85% |
| Interval increment: | 3 | 1,499 | 1,000 | 5 | 15% |
| Minimum: | 4 | 1,999 | 1,500 | 0 | 0% |
| Maximum: | 5 | 2,499 | 2,000 | 0 | 0% |
| | 6 | 2,999 | 2,500 | 0 | 0% |
| | 7 | 3,499 | 3,000 | 0 | 0% |
| | 8 | 3,999 | 3,500 | 0 | 0% |
| | 9 | 4,499 | 4,000 | 0 | 0% |
| | 10 | 4,999 | 4,500 | 0 | 0% |
| | 11 | 5,499 | 5,000 | 0 | 0% |
| | Total: | | | 33 | 100% |

Comment:
None.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05044E
Survey Unit Name: AB 25' Elevation -
South "A" CCP Room Ceiling

Classification: Class 2
Size (m²): 43

Judgmental and Miscellaneous Measurement Data

Measurement Type: Surface Scanning Beta
Measurement Units: dpm/100cm²
Minimum Value: 1,043

Scan Coverage (%): 35
Investigation Level: 7,500
Maximum Value: 1,386

Measurement Type: Removable Beta
Measurement Units: dpm/100cm²
Minimum Value: 2

Number of Measurements: 33
Investigation Level: 750
Maximum Value: 50

Discussion of Anomalous Measurement Data

Investigation Summary

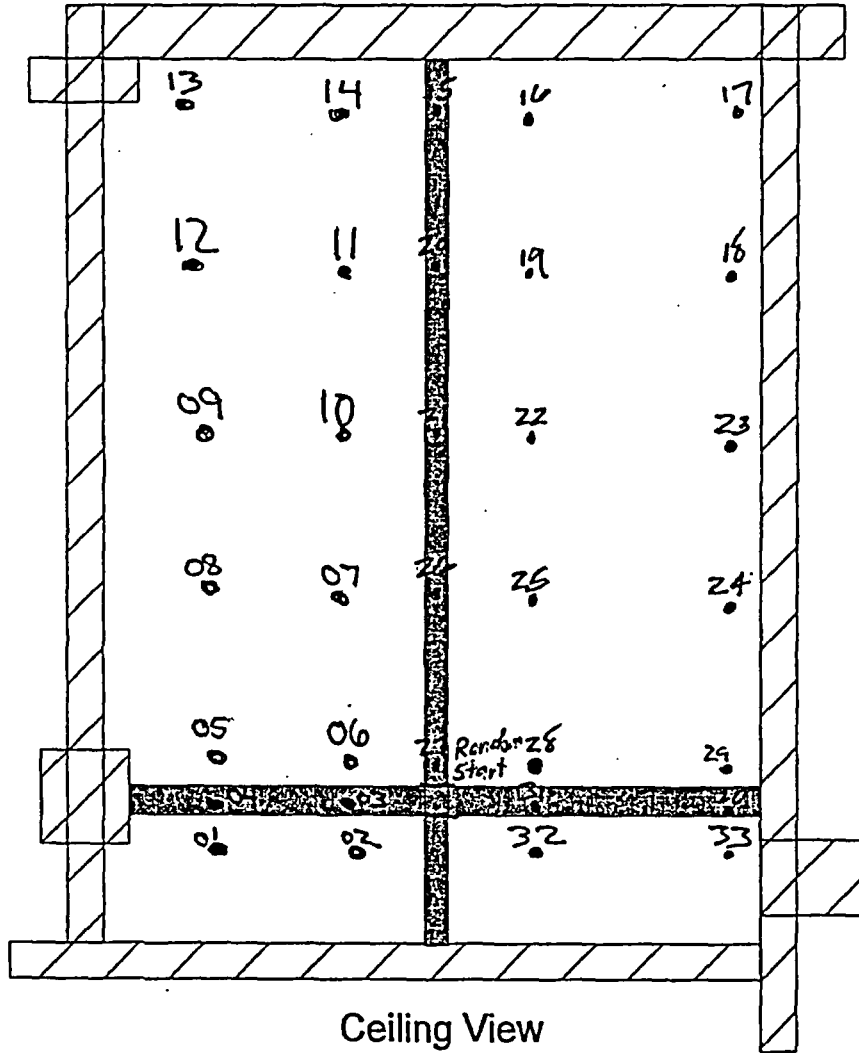
No investigation required for this survey unit. No anomalous measurement data.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05044E
Survey Unit Name: AB 25' Elevation -
South "A" CCP Room Ceiling

Classification: Class 2
Size (m²): 43

Static Measurement Locations Map



Survey performed IAW RP 452 Rev. 8

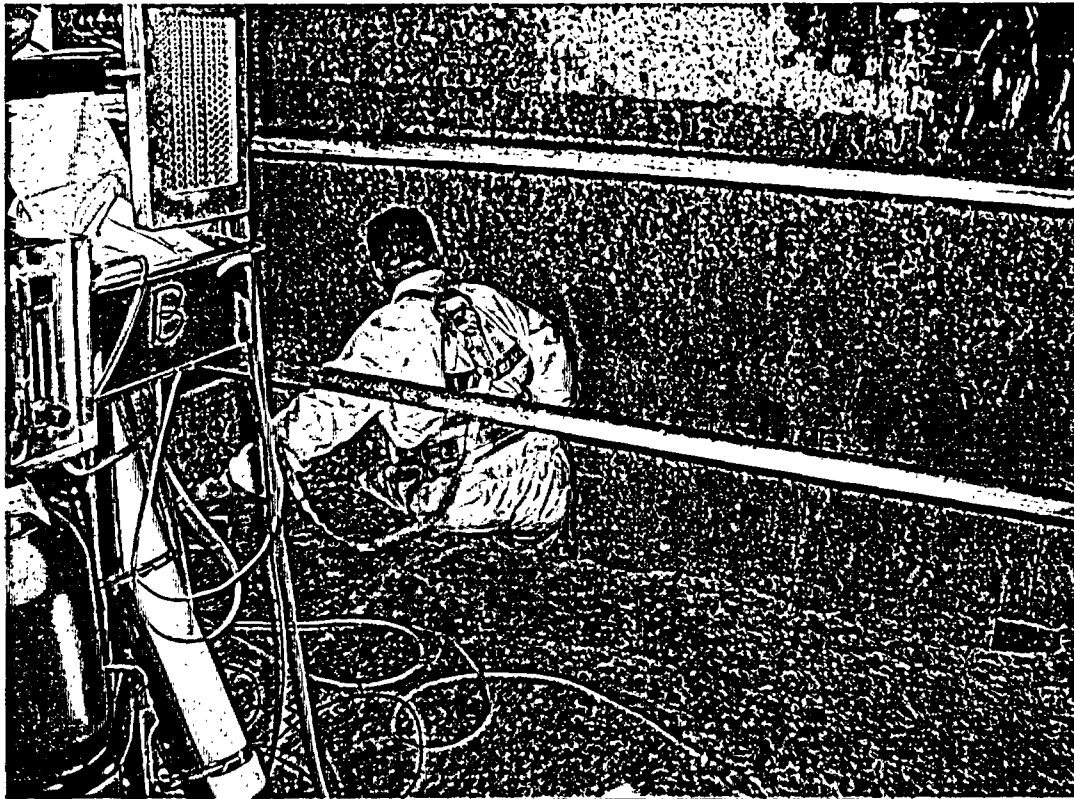
Arum Acorich / C. / 2/23/2004
Survey Technician Date

Mark [Signature]
Survey Technician Date

Trojan Nuclear Plant

Final Survey Report Auxiliary Building Interior

Volume 1
Book 2 of 2



APPENDIX D

SURVEY UNIT SUMMARY REPORTS – AUXILIARY BUILDING

| <u>Survey Unit ID Code</u> | <u>Page(s)</u> |
|----------------------------|--------------------|
| S05045A | D-2 through D-6 |
| S05045B..... | D-7 through D-12 |
| S05045C..... | D-13 through D-17 |
| S05045D | D-18 through D-22 |
| S05045E..... | D-23 through D-27 |
| S05045F | D-28 through D-32 |
| S05045G | D-33 through D-39 |
| S05045H | D-40 through D-44 |
| S05045J..... | D-45 through D-51 |
| S05045K | D-52 through D-55 |
| S05045L..... | D-56 through D-60 |
| S05051A | D-61 through D-64 |
| S05051B..... | D-65 through D-70 |
| S05051D | D-71 through D-75 |
| S05051E..... | D-76 through D-79 |
| S05051F | D-80 through D-83 |
| S05051G | D-84 through D-87 |
| S05051H | D-88 through D-92 |
| S05052K | D-93 through D-96 |
| G05045L | D-97 through D-100 |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05045A

Classification: Class 1

Survey Unit Name: AB 45' Elevation -

Size (m²): 247

Treated Waste Monitor Tank Room Floor and Walls

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|--------------------------|---------------|-------------------------|------------|-----|-----|
| 1 | 42 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 1.112e+003
 Maximum Value : 2.296e+003
 Range : 1.184e+003
 Median : 1.458e+003
 Std. Deviation : 3.676e+002
 Mean : 1.598e+003
 95% UCL : 1.694e+003

Measurement Values

| Location | Value | Location | Value | Location | Value |
|----------|------------|----------|------------|----------|------------|
| 000001 | 2.036e+003 | 000018 | 1.256e+003 | 000035 | 1.808e+003 |
| 000002 | 1.932e+003 | 000019 | 1.288e+003 | 000036 | 1.412e+003 |
| 000003 | 2.192e+003 | 000020 | 1.412e+003 | 000037 | 1.477e+003 |
| 000004 | 2.296e+003 | 000021 | 1.216e+003 | 000038 | 1.269e+003 |
| 000005 | 2.153e+003 | 000022 | 1.282e+003 | 000039 | 1.451e+003 |
| 000006 | 1.926e+003 | 000023 | 1.477e+003 | 000040 | 1.548e+003 |
| 000007 | 1.887e+003 | 000024 | 1.425e+003 | 000041 | 1.431e+003 |
| 000008 | 2.244e+003 | 000025 | 1.314e+003 | 000042 | 1.464e+003 |
| 000009 | 2.179e+003 | 000026 | 1.216e+003 | | |
| 000010 | 2.270e+003 | 000027 | 1.275e+003 | | |
| 000011 | 2.049e+003 | 000028 | 1.112e+003 | | |
| 000012 | 2.251e+003 | 000029 | 1.314e+003 | | |
| 000013 | 1.203e+003 | 000030 | 1.451e+003 | | |
| 000014 | 1.171e+003 | 000031 | 1.555e+003 | | |
| 000015 | 1.405e+003 | 000032 | 1.483e+003 | | |
| 000016 | 1.802e+003 | 000033 | 1.353e+003 | | |
| 000017 | 1.301e+003 | 000034 | 1.542e+003 | | |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05045A

Classification: Class 1

Survey Unit Name: AB 45' Elevation -

Size (m²): 247

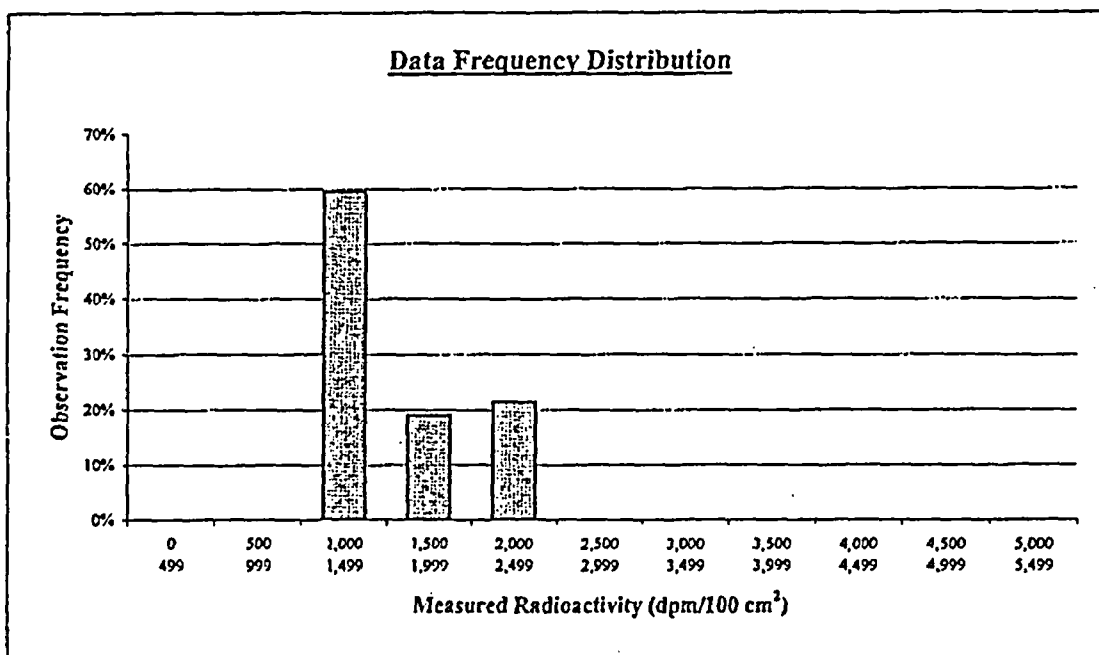
Treated Waste Monitor Tank Room Floor and Walls

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | |
|-------------------------|------------------|---------------------|-------------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? |
| Range | 1,184 | 1,838 | Pass |
| Median | 0.383 | 0.500 | Pass |
| Mean | 1,598 | 6,000 | Pass |
| Std Dev | 368 | 1,500 | Pass |

| Statistical Quantities | |
|------------------------|-------|
| Range: | 1,184 |
| Median: | 1,458 |
| Mean: | 1,598 |
| Std Dev: | 368 |
| Minimum: | 1,112 |
| Maximum: | 2,296 |
| DCGL: | 7,500 |

All data less than DCGL; Sign statistical test not required.



| Plot Parameters | |
|---------------------|-------|
| # of measurements: | 42 |
| # of intervals: | 11 |
| Interval increment: | 500 |
| Minimum: | 0 |
| Maximum: | 5,499 |

| Interval | High End | Low End | Number of Observations | Observation Frequency |
|----------|----------|---------|------------------------|-----------------------|
| 1 | 499 | 0 | 0 | 0% |
| 2 | 999 | 500 | 0 | 0% |
| 3 | 1,499 | 1,000 | 25 | 60% |
| 4 | 1,999 | 1,500 | 8 | 19% |
| 5 | 2,499 | 2,000 | 9 | 21% |
| 6 | 2,999 | 2,500 | 0 | 0% |
| 7 | 3,499 | 3,000 | 0 | 0% |
| 8 | 3,999 | 3,500 | 0 | 0% |
| 9 | 4,499 | 4,000 | 0 | 0% |
| 10 | 4,999 | 4,500 | 0 | 0% |
| 11 | 5,499 | 5,000 | 0 | 0% |
| Total: | | | 42 | 100% |

Comment:

None.

FINAL SURVEY RESULTS SUMMARY

| | |
|--|----------------------------------|
| Survey Unit ID Code: S05045A | Classification: Class 1 |
| Survey Unit Name: AB 45' Elevation – Treated Waste Monitor Tank Room Floor and Walls | Size (m²): 247 |

Judgmental and Miscellaneous Data

| | |
|--|-----------------------------------|
| Measurement Type: Surface Scanning Beta | Scan Coverage (%): 100 |
| Measurement Units: dpm/100cm ² | Investigation Level: 7,500 |
| Minimum Value: 930 | Maximum Value: 12,120 |
| | |
| Measurement Type: Removable Beta | Number of Measurements: 42 |
| Measurement Units: dpm/100cm ² | Investigation Level: 750 |
| Minimum Value: 49 | Maximum Value: 109 |

Discussion of Anomalous Measurement Data

Investigation Summary

Reason for Investigation: Two scan measurements exceeded the investigation level.

Elevated Measurement Comparison (EMC):

| | |
|---|------------------------|
| DCGL (Investigation Level): | 7,500 |
| Measurement Units: | dpm/100cm ² |
| Maximum Value: | 13,740 |
| Size of Area Exceeding DCGL (m²): | 0.02 |
| Size of Survey Unit (m²): | 247 |
| Survey Unit Area >DCGL (%): | 0.01 |
| EMC Value: | 36,750 |

Action Taken: Corrected measurement values for scan locations per guidance in memo FS-018-03; used similar method for elevated scan measurements obtained with a 43-68 gas flow proportional detector. Replaced original scan results in SDMS with the corrected results. Applied EMC data processing to corrected scan location 153 that remains elevated.

Basis for Action Taken: Technical basis memorandum FS-018-03 provides guidance for correcting SDMS determined scan results for locations that exceed the investigation level by subtracting instrument background from the field results.

FINAL SURVEY RESULTS SUMMARY

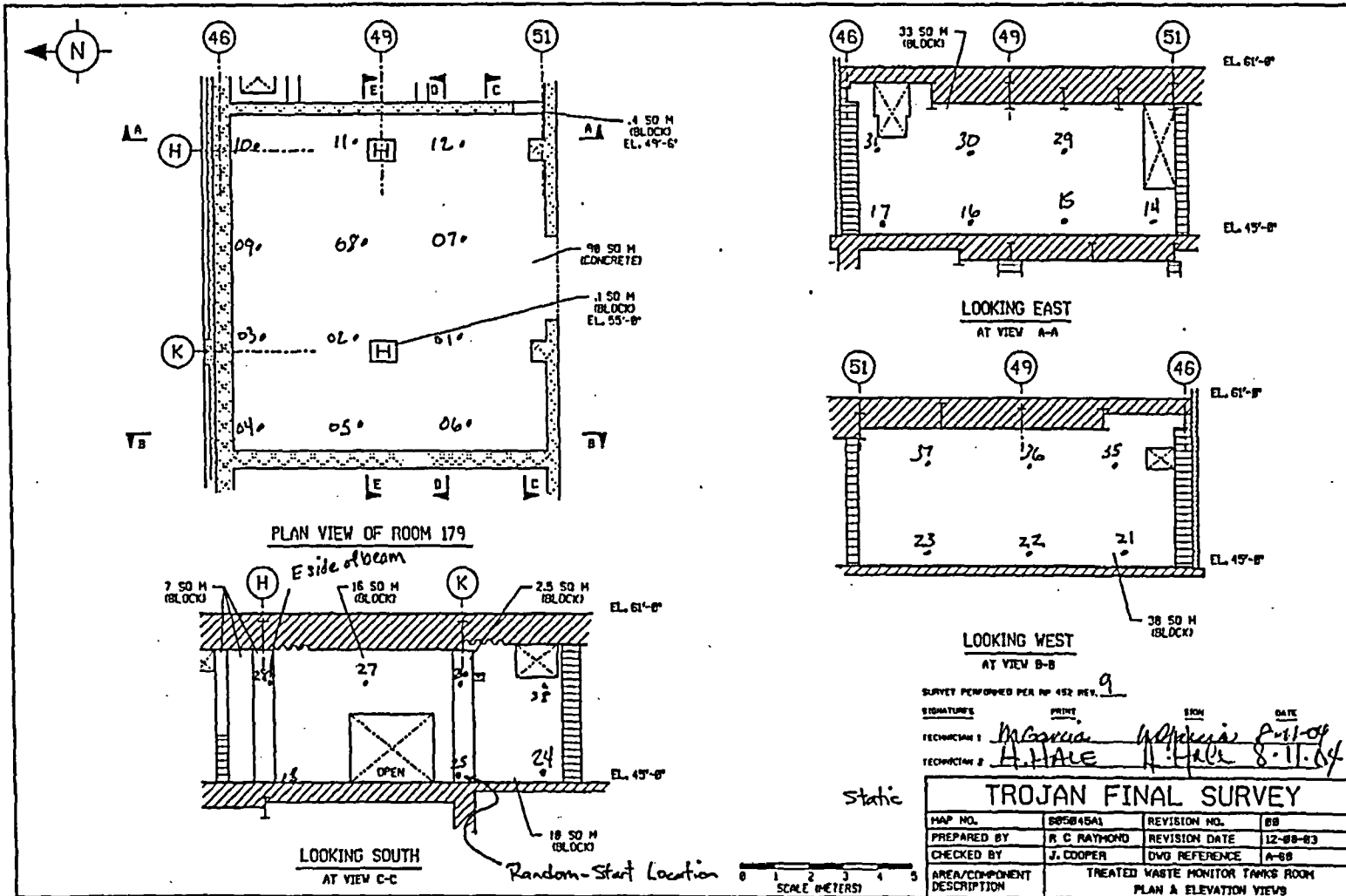
Survey Unit ID Code: S05045A

Survey Unit Name: AB 45' Elevation - Treated Waste Monitor Tank Room Floor and Walls

Classification: Class 1

Size (m²): 247

Static Measurement Location Map



FINAL SURVEY RESULTS SUMMARY

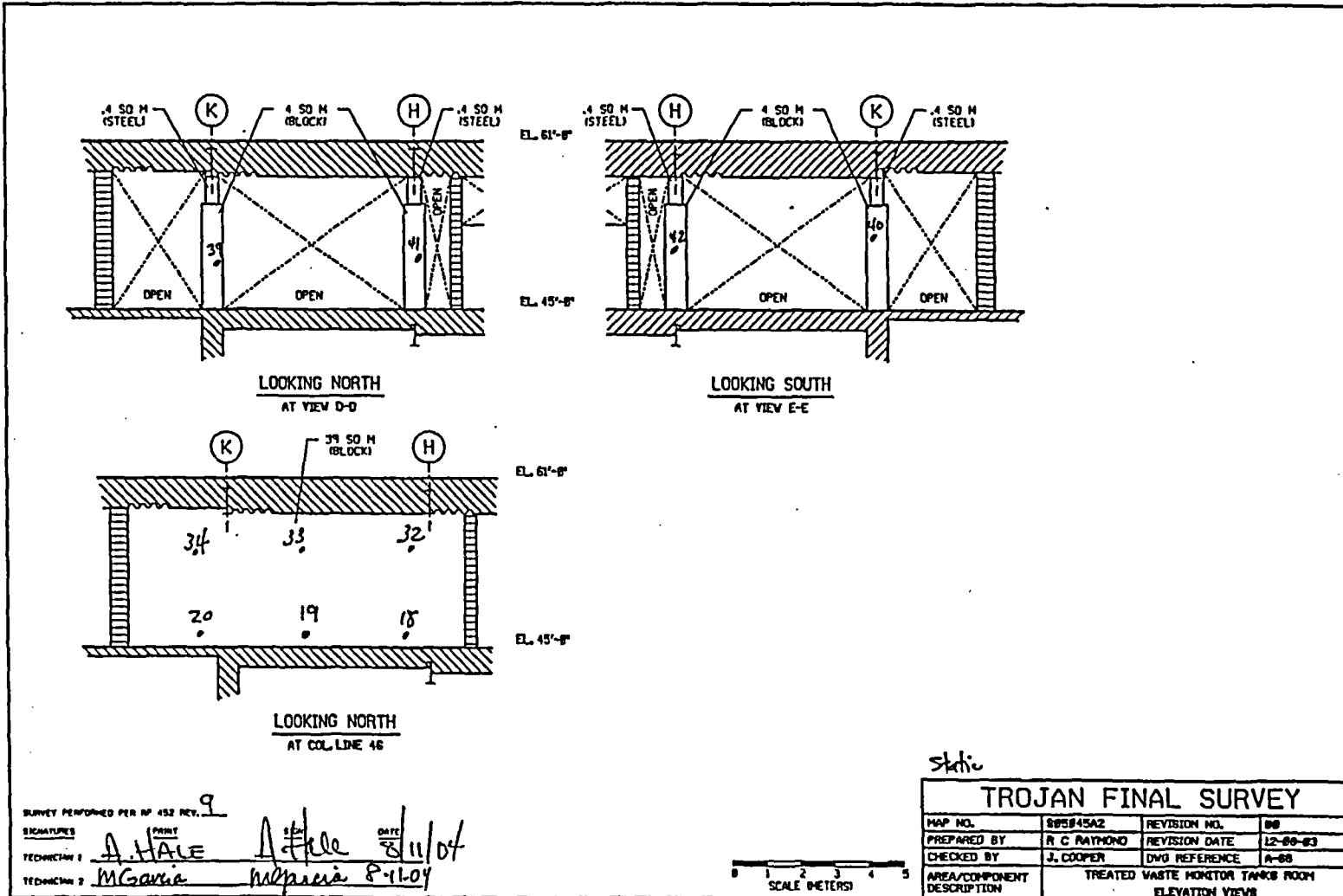
Survey Unit ID Code: S05045A

Survey Unit Name: AB 45' Elevation - Treated Waste Monitor Tank Room Floor and Walls

Classification: Class 1

Size (m²): 247

Static Measurement Location Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05045B Classification: Class 1
 Survey Unit Name: AB 45' Elevation - Size (m²): 275
 Service Water Booster Pump Area Floor and Lower Walls

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|-----------------------|------------|-------------------------|------------|-----|-----|
| 1 | 45 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 8.132e+002
 Maximum Value : 3.305e+003
 Range : 2.492e+003
 Median : 1.607e+003
 Std. Deviation : 4.510e+002
 Mean : 1.559e+003
 95% UCL : 1.672e+003

Measurement Values

| Location | Value | Location | Value | Location | Value |
|----------|------------|----------|------------|----------|------------|
| 000001 | 1.262e+003 | 000018 | 1.483e+003 | 000035 | 1.919e+003 |
| 000002 | 3.305e+003 | 000019 | 1.542e+003 | 000036 | 1.926e+003 |
| 000003 | 1.236e+003 | 000020 | 1.574e+003 | 000037 | 1.639e+003 |
| 000004 | 1.125e+003 | 000021 | 1.086e+003 | 000038 | 1.919e+003 |
| 000005 | 1.034e+003 | 000022 | 1.125e+003 | 000039 | 1.887e+003 |
| 000006 | 2.062e+003 | 000023 | 1.132e+003 | 000040 | 1.607e+003 |
| 000007 | 2.121e+003 | 000024 | 1.841e+003 | 000041 | 1.639e+003 |
| 000008 | 1.789e+003 | 000025 | 1.965e+003 | 000042 | 1.379e+003 |
| 000009 | 1.288e+003 | 000026 | 1.769e+003 | 000043 | 1.535e+003 |
| 000010 | 1.093e+003 | 000027 | 2.049e+003 | 000044 | 1.203e+003 |
| 000011 | 1.262e+003 | 000028 | 1.002e+003 | 000045 | 2.036e+003 |
| 000012 | 8.132e+002 | 000029 | 1.685e+003 | | |
| 000013 | 9.953e+002 | 000030 | 1.756e+003 | | |
| 000014 | 9.368e+002 | 000031 | 1.633e+003 | | |
| 000015 | 9.498e+002 | 000032 | 1.698e+003 | | |
| 000016 | 1.444e+003 | 000033 | 1.802e+003 | | |
| 000017 | 1.743e+003 | 000034 | 1.848e+003 | | |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05045B

Classification: Class 1

Survey Unit Name: AB 45' Elevation -

Size (m²): 275

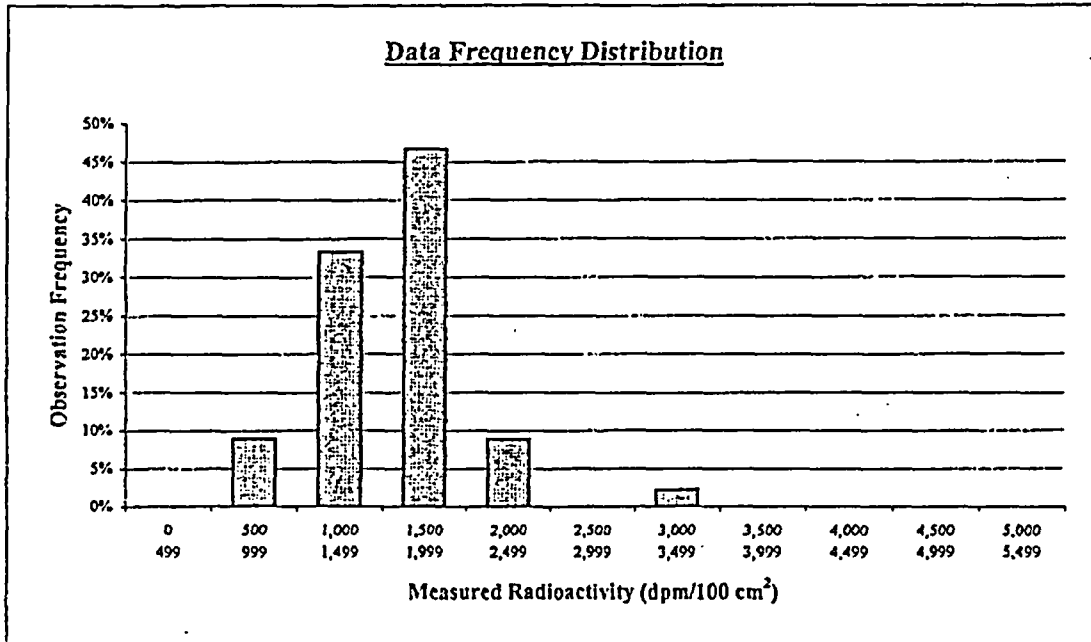
Service Water Booster Pump Area Floor and Lower Walls

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | |
|-------------------------|------------------|---------------------|-------------------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? |
| Range | 2,492 | 2,255 | See comment below |
| Median | 0.107 | 0.500 | Pass |
| Mean | 1,559 | 6,000 | Pass |
| Std Dev | 451 | 1,500 | Pass |

| Statistical Quantities | |
|------------------------|-------|
| Range: | 2,492 |
| Median: | 1,607 |
| Mean: | 1,559 |
| Std Dev: | 451 |
| Minimum: | 813 |
| Maximum: | 3,305 |
| DCGL: | 7,500 |

All data less than DCGL; Sign statistical test not required.



| Plot Parameters | |
|---------------------|-------|
| # of measurements: | 45 |
| # of intervals: | 11 |
| Interval increment: | 500 |
| Minimum: | 0 |
| Maximum: | 5,499 |

| Interval | High End | Low End | Number of Observations | Observation Frequency |
|----------|----------|---------|------------------------|-----------------------|
| 1 | 499 | 0 | 0 | 0% |
| 2 | 999 | 500 | 4 | 9% |
| 3 | 1,499 | 1,000 | 15 | 33% |
| 4 | 1,999 | 1,500 | 21 | 47% |
| 5 | 2,499 | 2,000 | 4 | 9% |
| 6 | 2,999 | 2,500 | 0 | 0% |
| 7 | 3,499 | 3,000 | 1 | 2% |
| 8 | 3,999 | 3,500 | 0 | 0% |
| 9 | 4,499 | 4,000 | 0 | 0% |
| 10 | 4,999 | 4,500 | 0 | 0% |
| 11 | 5,499 | 5,000 | 0 | 0% |
| Total: | | | 45 | 100% |

Comment:

Range failure is a test artifact only due to a very small standard deviation for the data set. All measurement values are less than 3500 dpm, are valid, and are accepted.

FINAL SURVEY RESULTS SUMMARY

| | |
|--|----------------------------------|
| Survey Unit ID Code: S05045B | Classification: Class 1 |
| Survey Unit Name: AB 45' Elevation – Service Water Booster Pump Area Floor and Lower Walls | Size (m²): 275 |

Judgmental and Miscellaneous Data

| | |
|--|-----------------------------------|
| Measurement Type: Surface Scanning Beta | Scan Coverage (%): 100 |
| Measurement Units: dpm/100cm ² | Investigation Level: 7,500 |
| Minimum Value: 393 | Maximum Value: 9,021 |

| | |
|--|-----------------------------------|
| Measurement Type: Removable Beta | Number of Measurements: 45 |
| Measurement Units: dpm/100cm ² | Investigation Level: 750 |
| Minimum Value: 48 | Maximum Value: 95 |

Discussion of Anomalous Measurement Data

Investigation Summary

Reason for Investigation: Four scan measurements exceeded the investigation level.

Elevated Measurement Comparison (EMC):

| | |
|---|------------------------|
| DCGL (Investigation Level): | 7,500 |
| Measurement Units: | dpm/100cm ² |
| Maximum Value: | 17,460 |
| Size of Area Exceeding DCGL (m²): | 0.05 |
| Size of Survey Unit (m²): | 275 |
| Survey Unit Area >DCGL (%): | 0.02 |
| EMC Value: | 36,750 |

Action Taken: Corrected measurement values for scan locations per guidance in memo FS-018-03; used similar method for elevated scan measurements obtained with a 43-68 gas flow proportional detector. Replaced original scan results in SDMS with the corrected results. Applied EMC data processing to corrected scan location 248 that remains elevated.

Basis for Action Taken: Technical basis memorandum FS-018-03 provides guidance for correcting SDMS determined scan results for locations that exceed the investigation level by subtracting instrument background from the field results

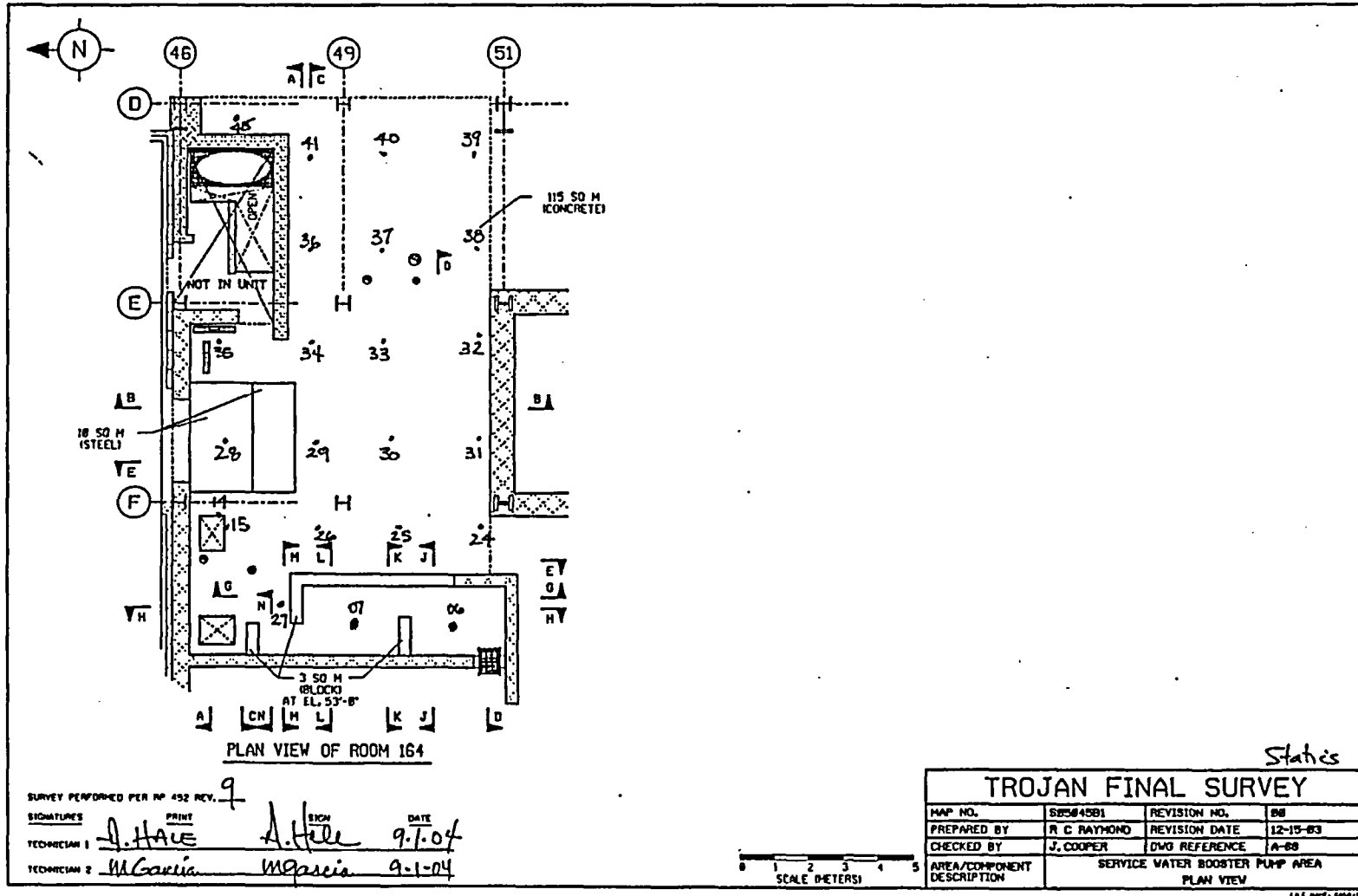
FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05045B

Classification: Class 1

Survey Unit Name: AB 45' Elevation - Service Water Booster Pump Area Floor and Lower Walls Size (m²): 275

Static Measurement Location Map



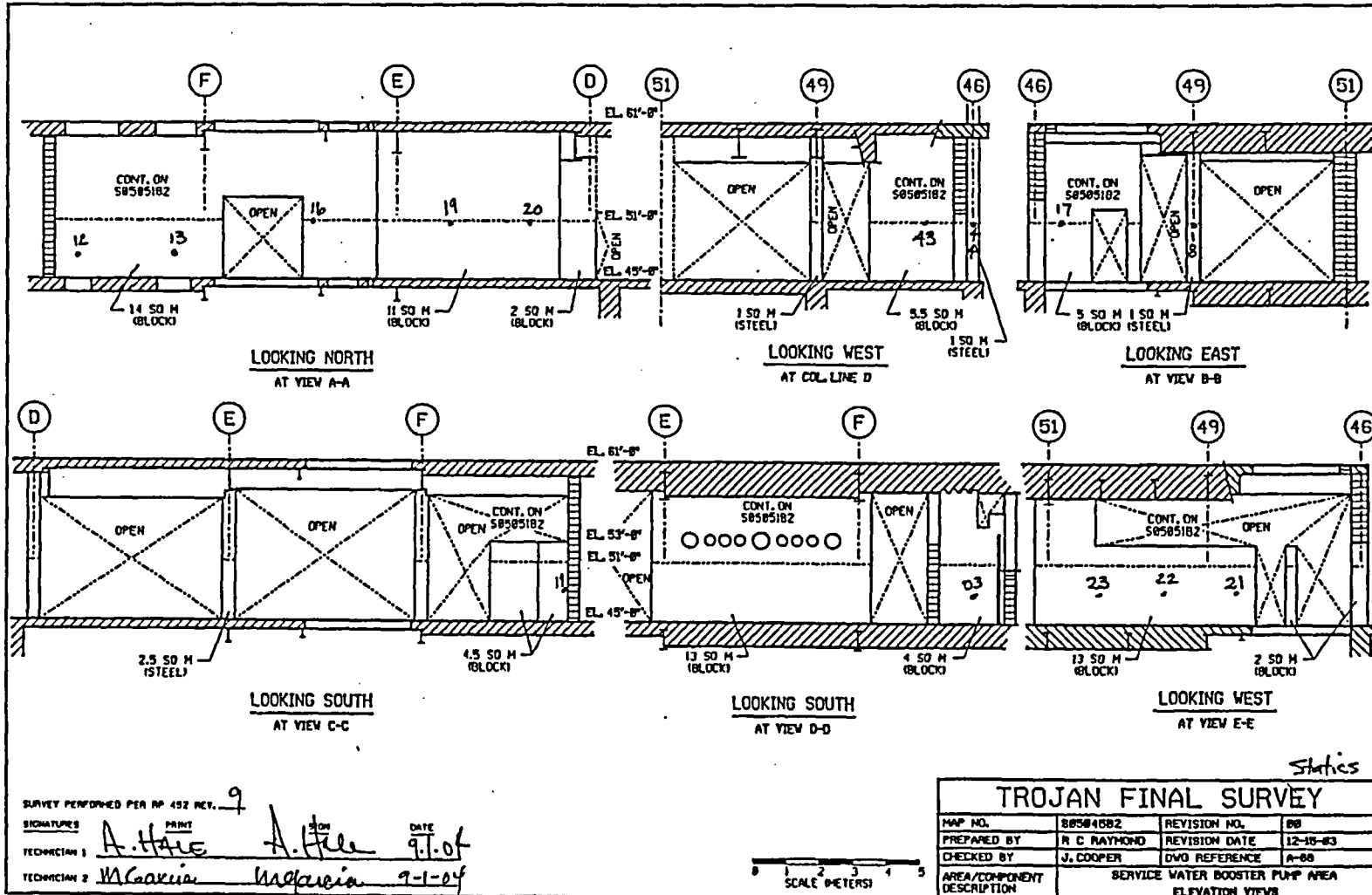
FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05045B

Classification: Class 1

Survey Unit Name: AB 45' Elevation - Service Water Booster Pump Area Floor and Lower Walls Size (m²): 275

Static Measurement Location Map



SURVEY PERFORMED PER RP 452 REV. 9

TECHNICIAN 1: *A. Hare* (PRINT), *A. Hare* (SIGN), DATE: 9-1-04

TECHNICIAN 2: *M. Garcia* (PRINT), *M. Garcia* (SIGN), DATE: 9-1-04

| TROJAN FINAL SURVEY | | | |
|----------------------------|---|---------------|----------|
| MAP NO. | S05045B2 | REVISION NO. | 00 |
| PREPARED BY | R. C. RAYMOND | REVISION DATE | 12-10-03 |
| CHECKED BY | J. COOPER | DWG REFERENCE | A-08 |
| AREA/COMPONENT DESCRIPTION | SERVICE WATER BOOSTER PUMP AREA ELEVATION VIEWS | | |

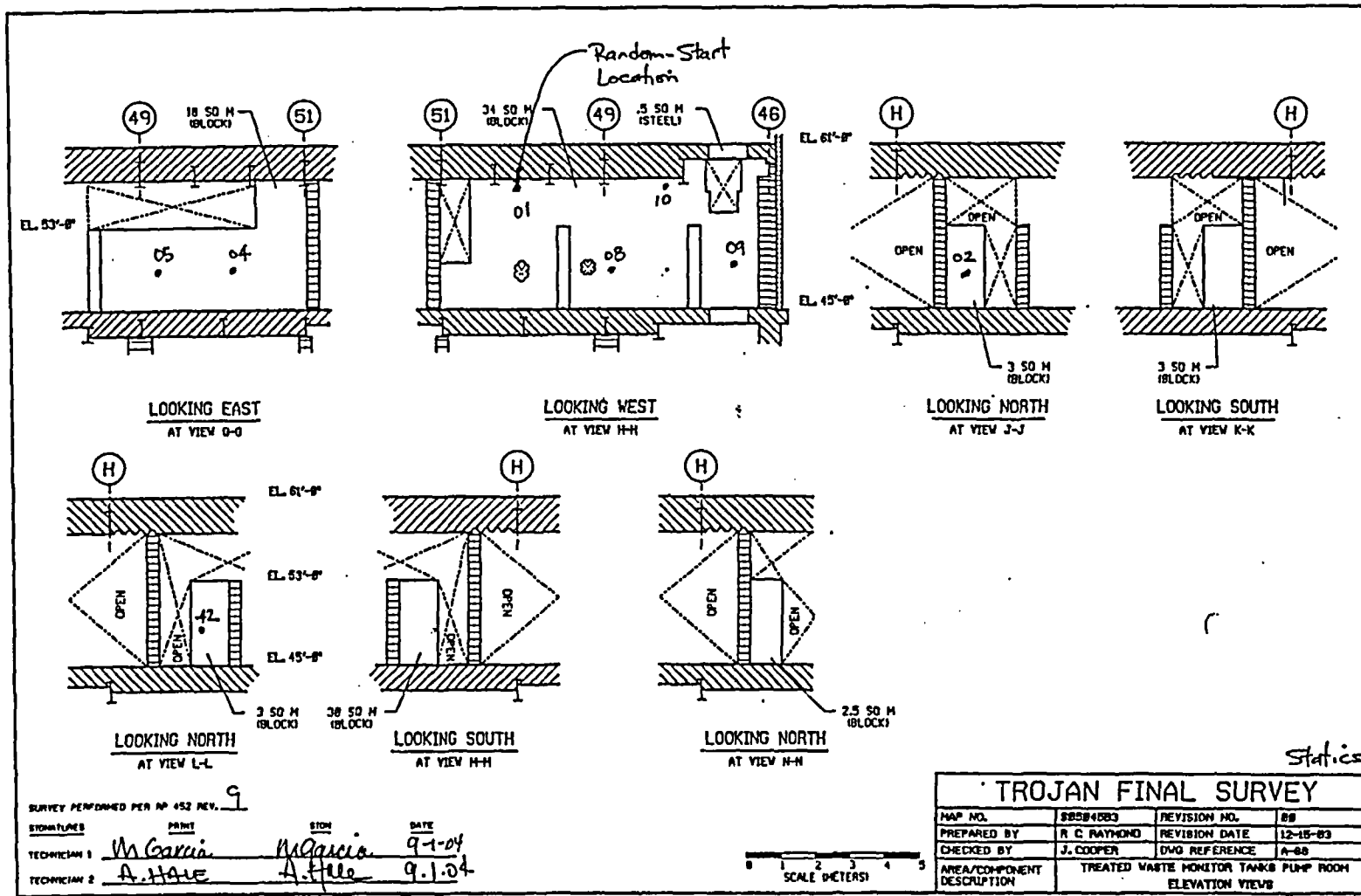
FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05045B

Classification: Class 1

Survey Unit Name: AB 45' Elevation - Service Water Booster Pump Area Floor and Lower Walls Size (m²): 275

Static Measurement Location Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05045C

Classification: Class 1

Survey Unit Name: AB 45' Elevation -

Size (m²): 98

CCW Pump Area Floor and Lower Walls

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|--------------------------|---------------|-------------------------|------------|-----|-----|
| 1 | 46 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 7.026e+002
 Maximum Value : 2.784e+003
 Range : 2.081e+003
 Median : 2.017e+003
 Std. Deviation : 5.215e+002
 Mean : 1.803e+003
 95% UCL : 1.932e+003

Measurement Values

| Location | Value | Location | Value | Location | Value |
|----------|------------|----------|------------|----------|------------|
| 000001 | 2.153e+003 | 000018 | 2.023e+003 | 000035 | 1.295e+003 |
| 000002 | 2.036e+003 | 000019 | 2.322e+003 | 000036 | 1.366e+003 |
| 000003 | 8.717e+002 | 000020 | 2.017e+003 | 000037 | 1.750e+003 |
| 000004 | 2.147e+003 | 000021 | 1.939e+003 | 000038 | 2.017e+003 |
| 000005 | 2.283e+003 | 000022 | 2.407e+003 | 000039 | 1.373e+003 |
| 000006 | 2.199e+003 | 000023 | 2.212e+003 | 000040 | 2.166e+003 |
| 000007 | 2.017e+003 | 000024 | 2.192e+003 | 000041 | 2.036e+003 |
| 000008 | 2.264e+003 | 000025 | 8.327e+002 | 000042 | 2.004e+003 |
| 000009 | 2.140e+003 | 000026 | 1.060e+003 | 000043 | 1.496e+003 |
| 000010 | 1.991e+003 | 000027 | 1.034e+003 | 000044 | 1.399e+003 |
| 000011 | 2.127e+003 | 000028 | 7.351e+002 | 000045 | 1.932e+003 |
| 000012 | 2.160e+003 | 000029 | 7.026e+002 | 000046 | 1.425e+003 |
| 000013 | 2.212e+003 | 000030 | 8.587e+002 | | |
| 000014 | 2.277e+003 | 000031 | 1.353e+003 | | |
| 000015 | 2.374e+003 | 000032 | 1.763e+003 | | |
| 000016 | 2.784e+003 | 000033 | 1.425e+003 | | |
| 000017 | 2.257e+003 | 000034 | 1.496e+003 | | |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05045C

Classification: Class 1

Survey Unit Name: AB 45' Elevation --

Size (m²): 98

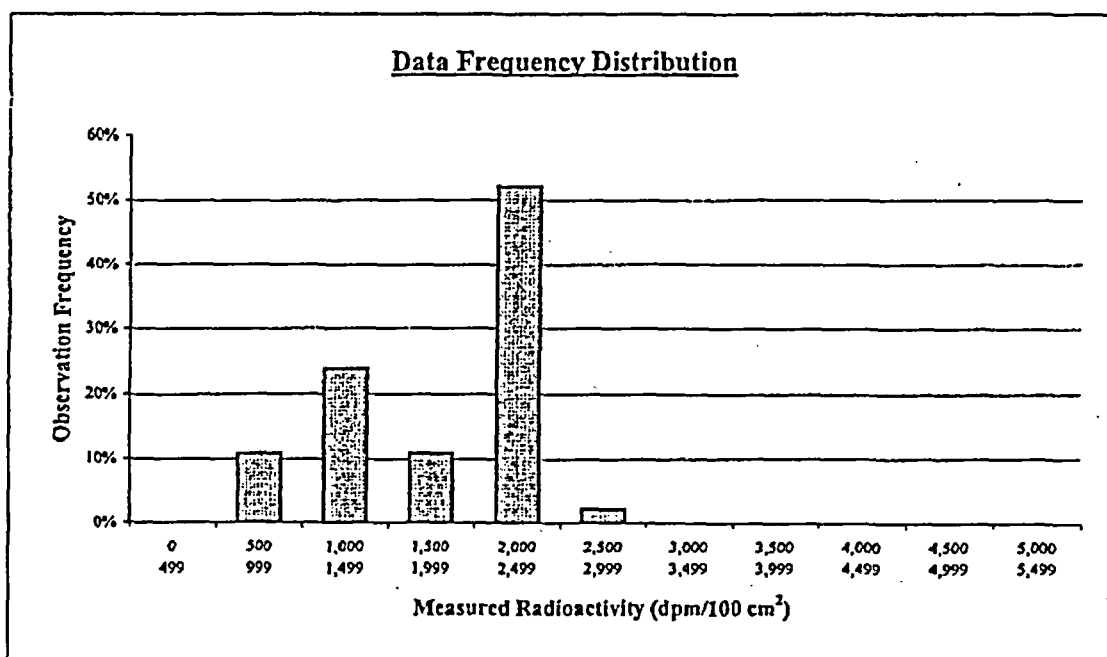
CCW Pump Area Floor and Lower Walls

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | |
|-------------------------|------------------|---------------------|-------------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? |
| Range | 2,081 | 2,607 | Pass |
| Median | 0.411 | 0.500 | Pass |
| Mean | 1,803 | 6,000 | Pass |
| Std Dev | 521 | 1,500 | Pass |

| Statistical Quantities | |
|------------------------|-------|
| Range: | 2,081 |
| Median: | 2,017 |
| Mean: | 1,803 |
| Std Dev: | 521 |
| Minimum: | 703 |
| Maximum: | 2,784 |
| DCGL: | 7,500 |

All data less than DCGL; Sign statistical test not required.



| Plot Parameters | |
|---------------------|-------|
| # of measurements: | 46 |
| # of intervals: | 11 |
| Interval increment: | 500 |
| Minimum: | 0 |
| Maximum: | 5,499 |

| Interval | High End | Low End | Number of Observations | Observation Frequency |
|----------|----------|---------|------------------------|-----------------------|
| 1 | 499 | 0 | 0 | 0% |
| 2 | 999 | 500 | 5 | 11% |
| 3 | 1,499 | 1,000 | 11 | 24% |
| 4 | 1,999 | 1,500 | 5 | 11% |
| 5 | 2,499 | 2,000 | 24 | 52% |
| 6 | 2,999 | 2,500 | 1 | 2% |
| 7 | 3,499 | 3,000 | 0 | 0% |
| 8 | 3,999 | 3,500 | 0 | 0% |
| 9 | 4,499 | 4,000 | 0 | 0% |
| 10 | 4,999 | 4,500 | 0 | 0% |
| 11 | 5,499 | 5,000 | 0 | 0% |
| Total: | | | 46 | 100% |

Comment:

None.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05045C
Survey Unit Name: AB 45' Elevation –
CCW Pump Area Floor and Lower Walls

Classification: Class 1
Size (m²): 98

Judgmental and Miscellaneous Data

| | |
|--|-----------------------------------|
| Measurement Type: Surface Scanning Beta | Scan Coverage (%): 100 |
| Measurement Units: dpm/100cm ² | Investigation Level: 7,500 |
| Minimum Value: 652 | Maximum Value: 5,961 |

| | |
|--|-----------------------------------|
| Measurement Type: Removable Beta | Number of Measurements: 46 |
| Measurement Units: dpm/100cm ² | Investigation Level: 750 |
| Minimum Value: 46 | Maximum Value: 83 |

Discussion of Anomalous Measurement Data

Investigation Summary

Reason for Investigation: Three scan measurements exceeded the investigation level.

Elevated Measurement Comparison (EMC):

| | |
|---|------------------------|
| DCGL (Investigation Level): | 7,500 |
| Measurement Units: | dpm/100cm ² |
| Maximum Value: | 17,820 |
| Size of Area Exceeding DCGL (m²): | N/A |
| Size of Survey Unit (m²): | N/A |
| Survey Unit Area >DCGL (%): | N/A |
| EMC Value: | N/A |

Action Taken: Corrected measurement values for scan locations per guidance in memo FS-018-03. Replaced original scan results in SDMS with these results, all of which corrected to less than the investigation level.

Basis for Action Taken: Technical basis memorandum FS-018-03 provides guidance for correcting SDMS determined scan results for locations that exceed the investigation level by subtracting instrument background from the field results

FINAL SURVEY RESULTS SUMMARY

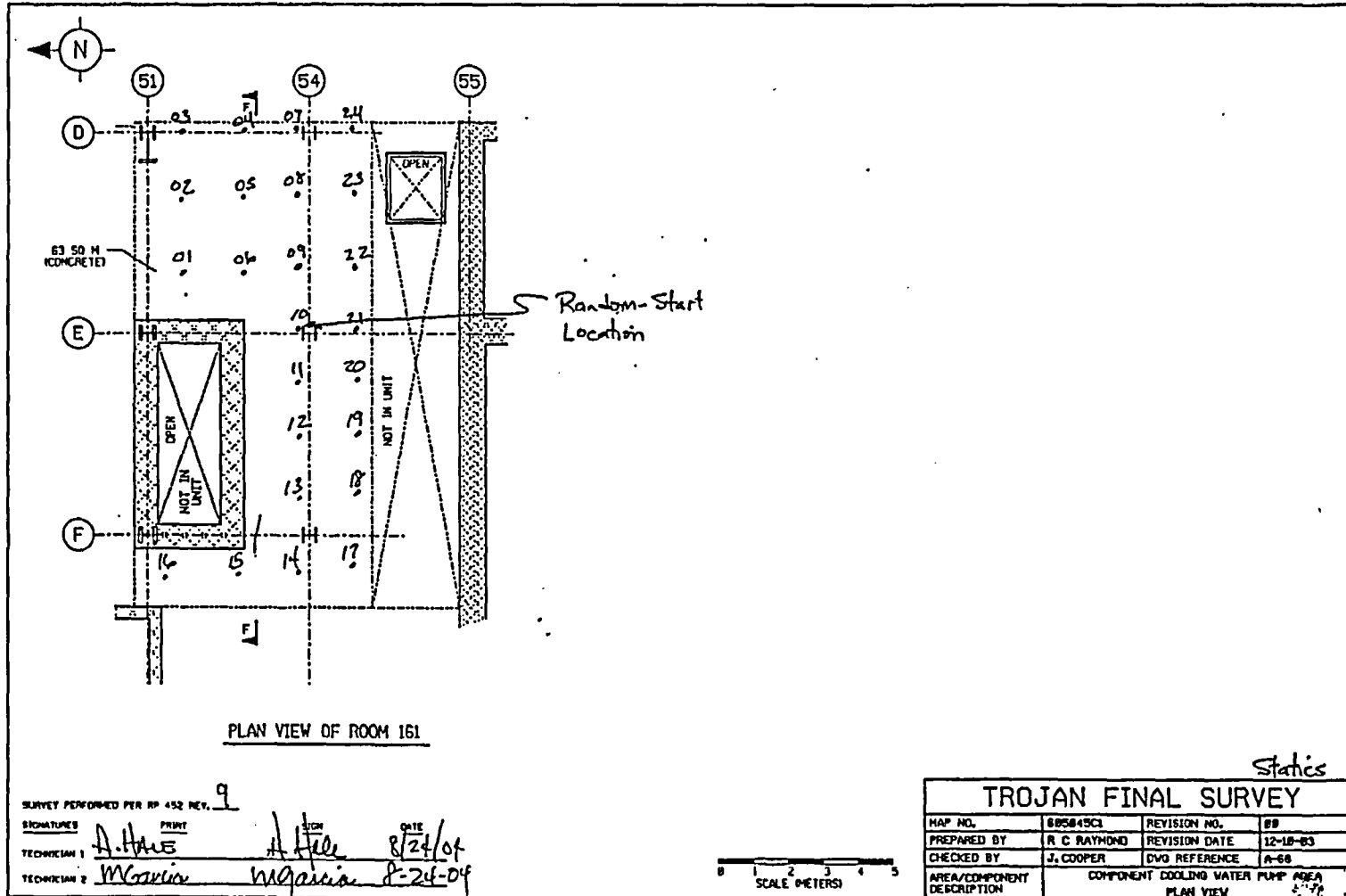
Survey Unit ID Code: S05045C

Survey Unit Name: AB 45' Elevation - CCW Pump Area Floor and Lower Walls

Classification: Class 1

Size (m²): 98

Static Measurement Location Map



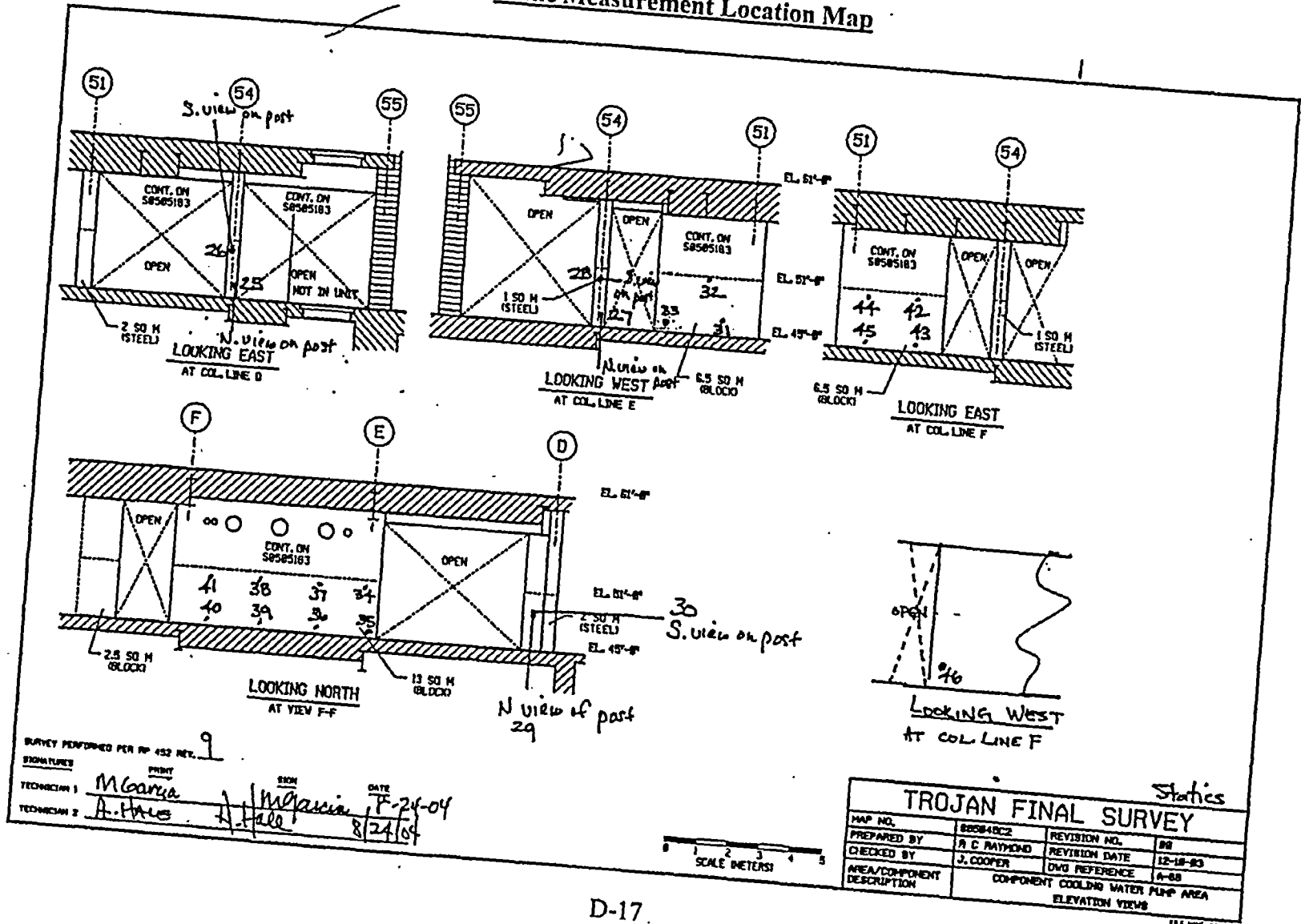
FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05045C

Survey Unit Name: AB 45' Elevation - CCW Pump Area Floor and Lower Walls

Classification: Class 1
Size (m²): 98

Static Measurement Location Map



SURVEY PERFORMED PER RP 452 REV. 9
 SIGNATURES: M. Garcia, A. Hales
 TECHNICIAN 1: M. Garcia
 TECHNICIAN 2: A. Hales
 DATE: 8/24/04

| TROJAN FINAL SURVEY | | | |
|----------------------------|---|---------------|----------|
| MAP NO. | S85848C2 | REVISION NO. | 00 |
| PREPARED BY | R. C. RAYMOND | REVISION DATE | 12-18-83 |
| CHECKED BY | J. COOPER | DWG REFERENCE | A-88 |
| AREA/COMPONENT DESCRIPTION | COMPONENT COOLING WATER PUMP AREA ELEVATION VIEWS | | |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05045D

Classification: Class 1

Survey Unit Name: AB 45' Elevation -

Size (m²): 123

Central Corridor Floor and Lower Walls

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|--------------------------|---------------|-------------------------|------------|-----|-----|
| 1 | 33 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 1.078e+003
 Maximum Value : 2.194e+003
 Range : 1.116e+003
 Median : 1.678e+003
 Std. Deviation : 3.864e+002
 Mean : 1.628e+003
 95% UCL : 1.741e+003

Measurement Values

| Location | Value | Location | Value |
|----------|------------|----------|------------|
| 000001 | 1.084e+003 | 000018 | 1.891e+003 |
| 000002 | 1.207e+003 | 000019 | 1.916e+003 |
| 000003 | 1.265e+003 | 000020 | 1.878e+003 |
| 000004 | 1.258e+003 | 000021 | 2.194e+003 |
| 000005 | 1.284e+003 | 000022 | 2.162e+003 |
| 000006 | 1.574e+003 | 000023 | 1.678e+003 |
| 000007 | 1.303e+003 | 000024 | 1.742e+003 |
| 000008 | 1.078e+003 | 000025 | 2.084e+003 |
| 000009 | 1.336e+003 | 000026 | 1.955e+003 |
| 000010 | 1.116e+003 | 000027 | 1.858e+003 |
| 000011 | 1.149e+003 | 000028 | 2.020e+003 |
| 000012 | 1.161e+003 | 000029 | 1.387e+003 |
| 000013 | 1.968e+003 | 000030 | 2.097e+003 |
| 000014 | 2.020e+003 | 000031 | 1.116e+003 |
| 000015 | 1.987e+003 | 000032 | 1.323e+003 |
| 000016 | 2.084e+003 | 000033 | 1.574e+003 |
| 000017 | 1.962e+003 | | |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05045D
 Survey Unit Name: AB 45' Elevation -
 Central Corridor Floor and Lower Walls

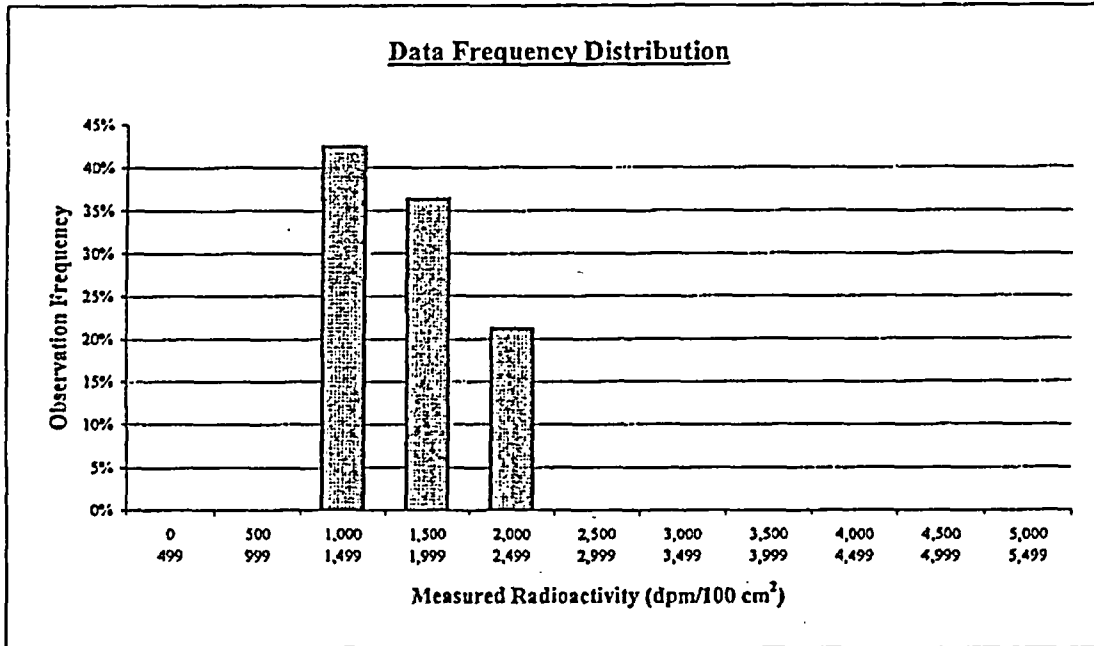
Classification: Class 1
 Size (m²): 123

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | |
|-------------------------|------------------|---------------------|-------------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? |
| Range | 1,116 | 1,932 | Pass |
| Median | 0.130 | 0.500 | Pass |
| Mean | 1,628 | 6,000 | Pass |
| Std Dev | 386 | 1,500 | Pass |

| Statistical Quantities | |
|------------------------|-------|
| Range: | 1,116 |
| Median: | 1,678 |
| Mean: | 1,628 |
| Std Dev: | 386 |
| Minimum: | 1,078 |
| Maximum: | 2,194 |
| DCGL: | 7,500 |

All data less than DCGL; Sign statistical test not required.



| Plot Parameters | |
|---------------------|-------|
| # of measurements: | 33 |
| # of intervals: | 11 |
| Interval increment: | 500 |
| Minimum: | 0 |
| Maximum: | 5,499 |

Comment:
None.

| Interval | High End | Low End | Number of Observations | Observation Frequency |
|----------|----------|---------|------------------------|-----------------------|
| 1 | 499 | 0 | 0 | 0% |
| 2 | 999 | 500 | 0 | 0% |
| 3 | 1,499 | 1,000 | 14 | 42% |
| 4 | 1,999 | 1,500 | 12 | 36% |
| 5 | 2,499 | 2,000 | 7 | 21% |
| 6 | 2,999 | 2,500 | 0 | 0% |
| 7 | 3,499 | 3,000 | 0 | 0% |
| 8 | 3,999 | 3,500 | 0 | 0% |
| 9 | 4,499 | 4,000 | 0 | 0% |
| 10 | 4,999 | 4,500 | 0 | 0% |
| 11 | 5,499 | 5,000 | 0 | 0% |
| Total: | | | 33 | 100% |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05045D
 Survey Unit Name: AB 45' Elevation –
 Central Corridor Floor and Lower Walls

Classification: Class 1
 Size (m²): 123

Judgmental and Miscellaneous Data

Measurement Type: Surface Scanning Beta
 Measurement Units: dpm/100cm²
 Minimum Value: 1,473

Scan Coverage (%): 100
 Investigation Level: 7,500
 Maximum Value: 12,380

Measurement Type: Removable Beta
 Measurement Units: dpm/100cm²
 Minimum Value: 45

Number of Measurements: 33
 Investigation Level: 750
 Maximum Value: 80

Discussion of Anomalous Measurement Data

Investigation Summary

Reason for Investigation: One scan measurement exceeded the investigation level.

Elevated Measurement Comparison (EMC):

| | |
|--|------------------------|
| DCGL (Investigation Level): | 7,500 |
| Measurement Units: | dpm/100cm ² |
| Maximum Value: | 12,380 |
| Size of Area Exceeding DCGL (m ²): | 0.002 |
| Size of Survey Unit (m ²): | 123 |
| Survey Unit Area >DCGL (%): | 0.002 |
| EMC Value: | 36,750 |

Action Taken: Applied EMC data processing to scan location 129.

Basis for Action Taken: Very small, localized area of elevated radioactivity identified during scan survey is less than 1 m²

FINAL SURVEY RESULTS SUMMARY

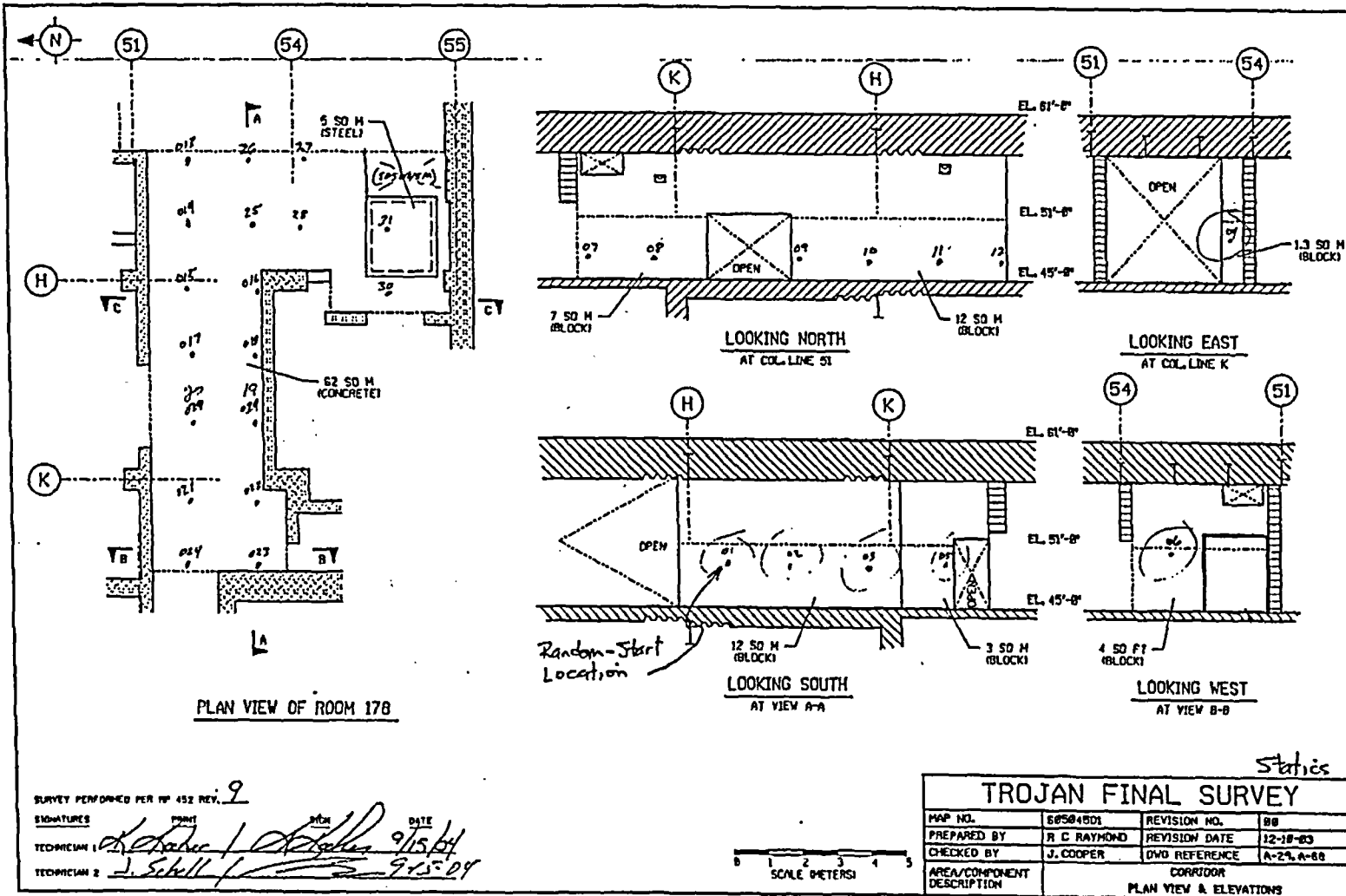
Survey Unit ID Code: S05045D

Survey Unit Name: AB 45' Elevation - Central Corridor Floor and Lower Walls

Classification: Class 1

Size (m²): 123

Static Measurement Location Map



FINAL SURVEY RESULTS SUMMARY

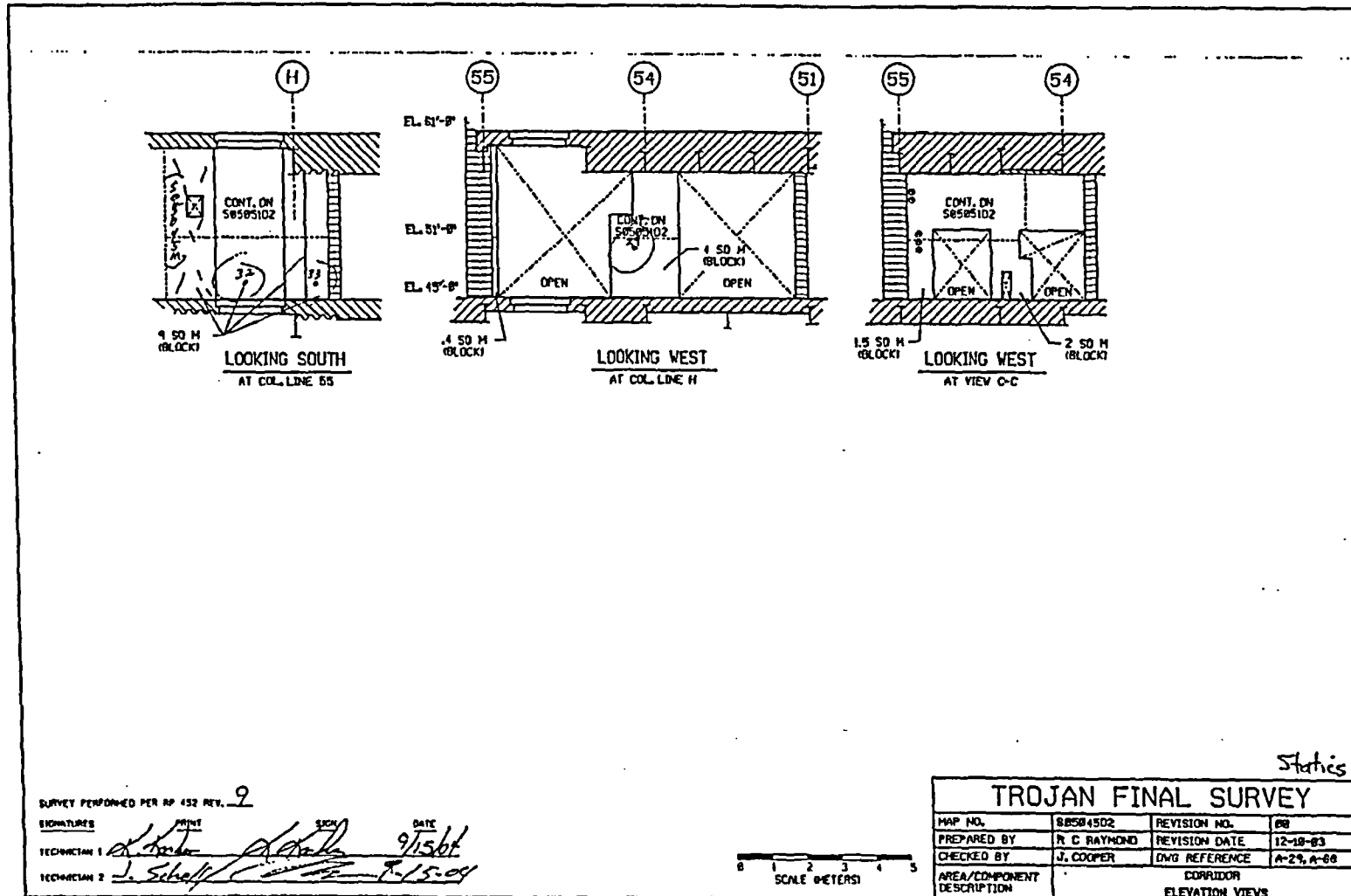
Survey Unit ID Code: S05045D

Survey Unit Name: AB 45' Elevation - Central Corridor Floor and Lower Walls

Classification: Class 1

Size (m²): 123

Static Measurement Location Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05045E

Classification: Class 1

Survey Unit Name: AB 45' Elevation -

Size (m²): 187

DWM Tank and Pump Room Floor and Walls

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|-----------------------|------------|-------------------------|------------|-----|-----|
| 1 | 30 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 6.275e+002
 Maximum Value : 3.021e+003
 Range : 2.394e+003
 Median : 1.178e+003
 Std. Deviation : 6.307e+002
 Mean : 1.338e+003
 95% UCL : 1.533e+003

Measurement Values

| Location | Value | Location | Value |
|----------|------------|----------|------------|
| 000001 | 2.104e+003 | 000018 | 9.155e+002 |
| 000002 | 2.006e+003 | 000019 | 7.272e+002 |
| 000003 | 2.344e+003 | 000020 | 7.383e+002 |
| 000004 | 2.061e+003 | 000021 | 6.829e+002 |
| 000005 | 1.114e+003 | 000022 | 1.137e+003 |
| 000006 | 1.218e+003 | 000023 | 7.309e+002 |
| 000007 | 1.803e+003 | 000024 | 7.457e+002 |
| 000008 | 1.513e+003 | 000025 | 6.755e+002 |
| 000009 | 1.452e+003 | 000026 | 6.977e+002 |
| 000010 | 1.347e+003 | 000027 | 7.715e+002 |
| 000011 | 2.067e+003 | 000028 | 9.450e+002 |
| 000012 | 3.021e+003 | 000029 | 7.530e+002 |
| 000013 | 1.821e+003 | 000030 | 6.275e+002 |
| 000014 | 1.815e+003 | | |
| 000015 | 1.944e+003 | | |
| 000016 | 1.433e+003 | | |
| 000017 | 9.265e+002 | | |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05045E

Classification: Class 1

Survey Unit Name: AB 45' Elevation -

Size (m²): 187

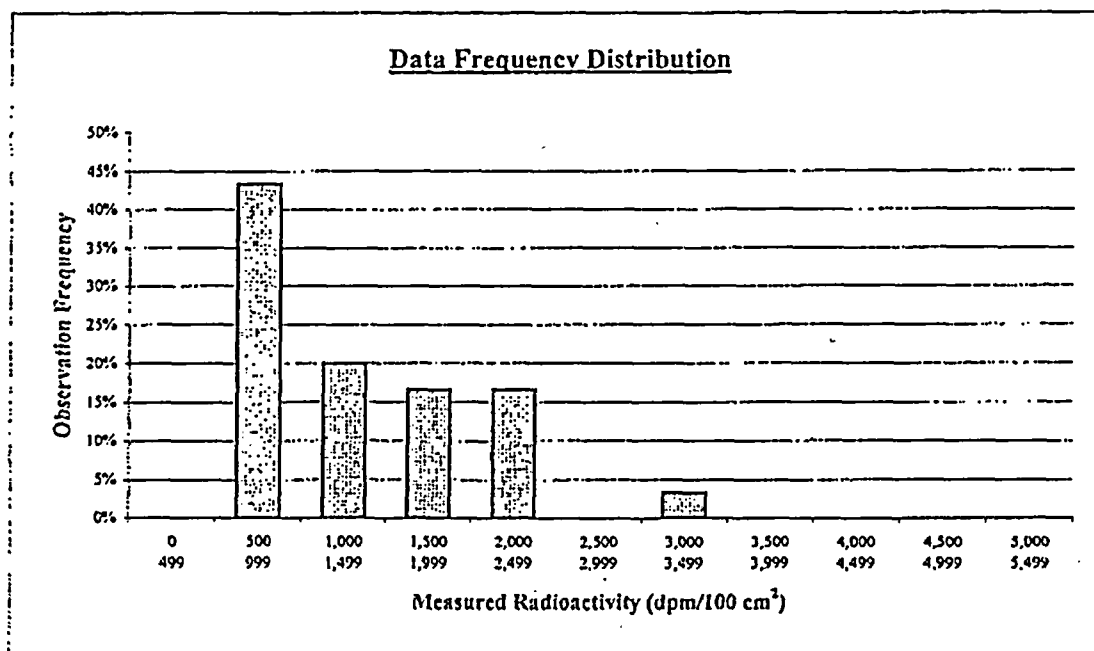
DWM Tank and Pump Room Floor and Walls

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | |
|-------------------------|------------------|---------------------|-------------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? |
| Range | 2,393 | 3,153 | Pass |
| Median | 0.255 | 0.500 | Pass |
| Mean | 1,338 | 6,000 | Pass |
| Std Dev | 631 | 1,500 | Pass |

| Statistical Quantities | |
|------------------------|-------|
| Range: | 2,393 |
| Median: | 1,178 |
| Mean: | 1,338 |
| Std Dev: | 631 |
| Minimum: | 628 |
| Maximum: | 3,021 |
| DCGL: | 7,500 |

All data less than DCGL; Sign statistical test not required.



| Plot Parameters | |
|---------------------|-------|
| # of measurements: | 30 |
| # of intervals: | 11 |
| Interval increment: | 500 |
| Minimum: | 0 |
| Maximum: | 5,499 |

Comment:

None.

| Interval | High End | Low End | Number of Observations | Observation Frequency |
|----------|----------|---------|------------------------|-----------------------|
| 1 | 499 | 0 | 0 | 0% |
| 2 | 999 | 500 | 13 | 43% |
| 3 | 1,499 | 1,000 | 6 | 20% |
| 4 | 1,999 | 1,500 | 5 | 17% |
| 5 | 2,499 | 2,000 | 5 | 17% |
| 6 | 2,999 | 2,500 | 0 | 0% |
| 7 | 3,499 | 3,000 | 1 | 3% |
| 8 | 3,999 | 3,500 | 0 | 0% |
| 9 | 4,499 | 4,000 | 0 | 0% |
| 10 | 4,999 | 4,500 | 0 | 0% |
| 11 | 5,499 | 5,000 | 0 | 0% |
| Total: | | | 30 | 100% |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05045E **Classification:** Class 1
Survey Unit Name: AB 45' Elevation – **Size (m²):** 187
DWM Tank and Pump Room Floor and Walls

Judgmental and Miscellaneous Data

| | |
|--|-----------------------------------|
| Measurement Type: Surface Scanning Beta | Scan Coverage (%): 100 |
| Measurement Units: dpm/100cm ² | Investigation Level: 7,500 |
| Minimum Value: 768 | Maximum Value: 6,974 |
| Measurement Type: Removable Beta | Number of Measurements: 30 |
| Measurement Units: dpm/100cm ² | Investigation Level: 750 |
| Minimum Value: 51 | Maximum Value: 119 |

Discussion of Anomalous Measurement Data

Investigation Summary

Reason for Investigation: Three scan measurements exceeded the investigation level.

Elevated Measurement Comparison (EMC):

| | |
|---|------------------------|
| DCGL (Investigation Level): | 7,500 |
| Measurement Units: | dpm/100cm ² |
| Maximum Value: | 33,160 |
| Size of Area Exceeding DCGL (m²): | N/A |
| Size of Survey Unit (m²): | N/A |
| Survey Unit Area >DCGL (%): | N/A |
| EMC Value: | N/A |

Action Taken: Corrected measurement values for scan locations per guidance in memo FS-018-03. Replaced original scan results in SDMS with these results, all of which corrected to less than the investigation level.

Basis for Action Taken: Technical basis memorandum FS-018-03 provides guidance for correcting SDMS determined scan results for locations that exceed the investigation level by subtracting instrument background from

FINAL SURVEY RESULTS SUMMARY

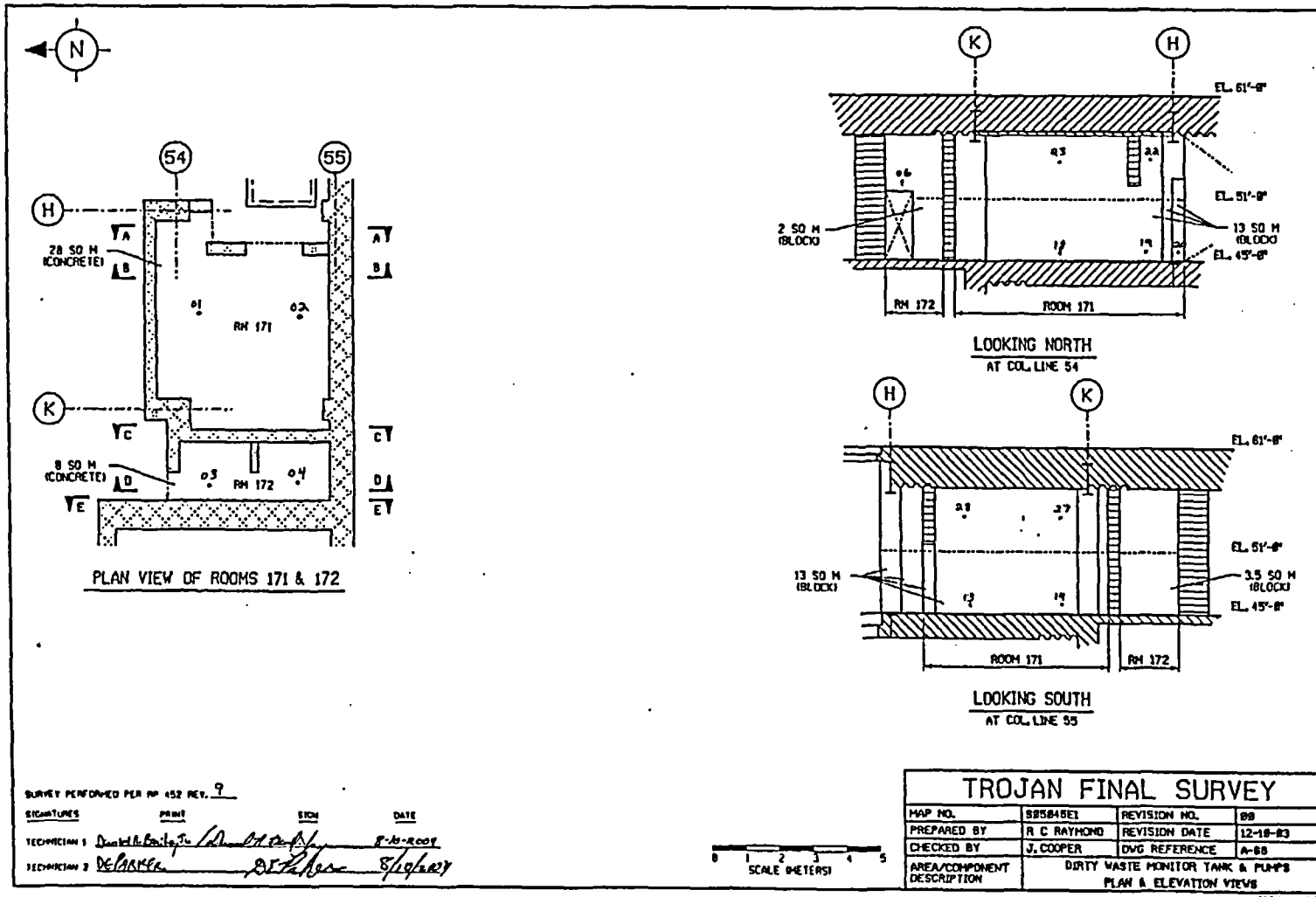
Survey Unit ID Code: S05045E

Survey Unit Name: AB 45' Elevation - DWM Tank and Pump Room Floor and Walls

Classification: Class 1

Size (m²): 187

Static Measurement Location Map



FINAL SURVEY RESULTS SUMMARY

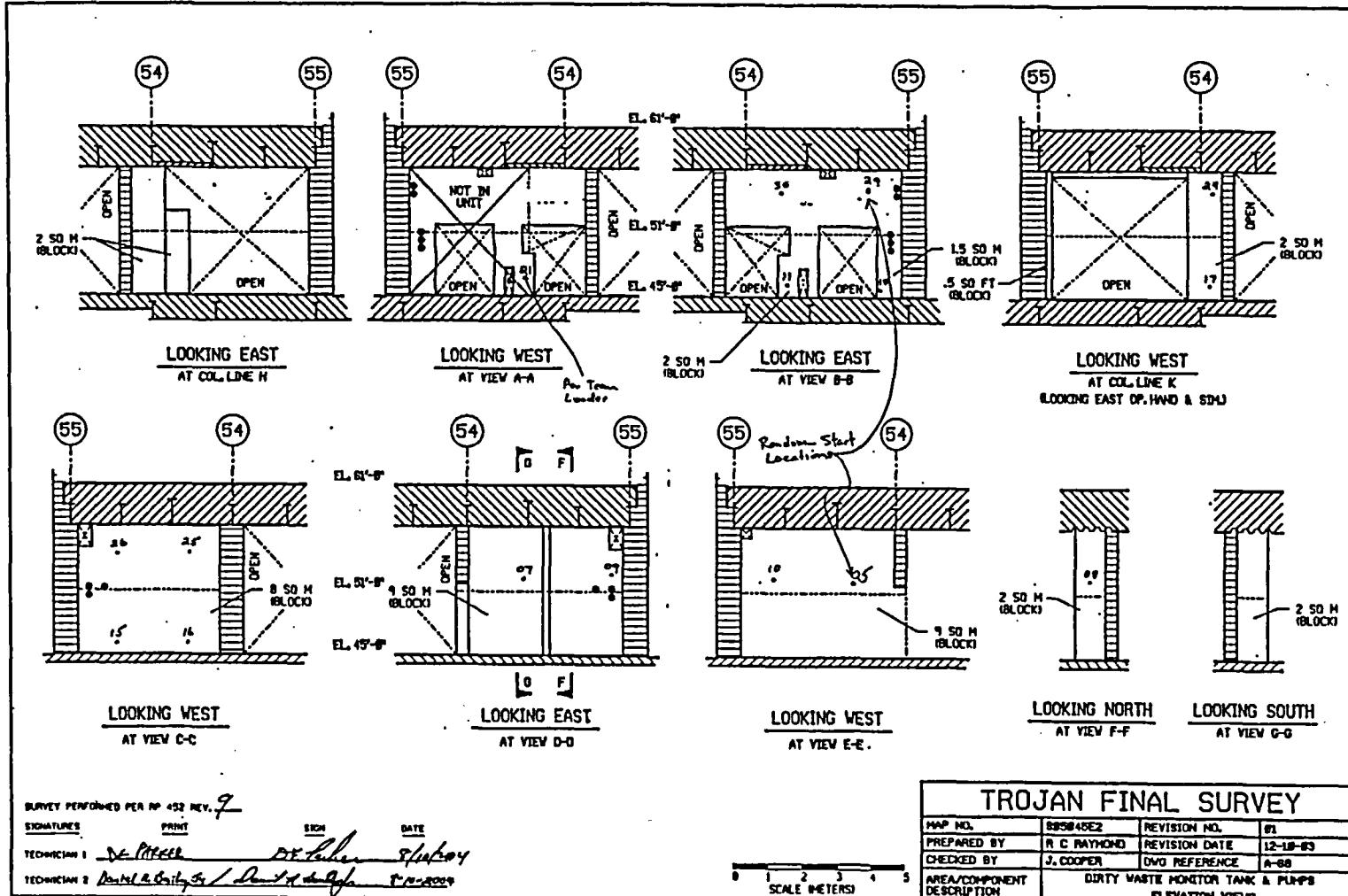
Survey Unit ID Code: S05045E

Survey Unit Name: AB 45' Elevation - DWM Tank and Pump Room Floor and Walls

Classification: Class 1

Size (m²): 187

Static Measurement Location Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05045F

Classification: Class 1

Survey Unit Name: AB 45' Elevation -

Size (m²): 136

Radiological Sample Room Floor and Walls

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|-----------------------|------------|-------------------------|------------|-----|-----|
| 1 | 34 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 1.271e+003
 Maximum Value : 2.336e+003
 Range : 1.065e+003
 Median : 1.891e+003
 Std. Deviation : 2.991e+002
 Mean : 1.835e+003
 95% UCL : 1.922e+003

Measurement Values

| Location | Value | Location | Value |
|----------|------------|----------|------------|
| 000001 | 2.271e+003 | 000018 | 1.723e+003 |
| 000002 | 2.200e+003 | 000019 | 1.497e+003 |
| 000003 | 1.845e+003 | 000020 | 1.852e+003 |
| 000004 | 2.013e+003 | 000021 | 1.471e+003 |
| 000005 | 2.239e+003 | 000022 | 1.845e+003 |
| 000006 | 2.291e+003 | 000023 | 2.045e+003 |
| 000007 | 2.336e+003 | 000024 | 2.116e+003 |
| 000008 | 1.968e+003 | 000025 | 1.955e+003 |
| 000009 | 1.503e+003 | 000026 | 2.078e+003 |
| 000010 | 1.981e+003 | 000027 | 1.368e+003 |
| 000011 | 1.994e+003 | 000028 | 1.736e+003 |
| 000012 | 1.484e+003 | 000029 | 1.439e+003 |
| 000013 | 1.465e+003 | 000030 | 1.942e+003 |
| 000014 | 2.071e+003 | 000031 | 1.452e+003 |
| 000015 | 1.271e+003 | 000032 | 1.994e+003 |
| 000016 | 1.852e+003 | 000033 | 1.536e+003 |
| 000017 | 1.626e+003 | 000034 | 1.929e+003 |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05045F
Survey Unit Name: AB 45' Elevation –
 Radiological Sample Room Floor and Walls

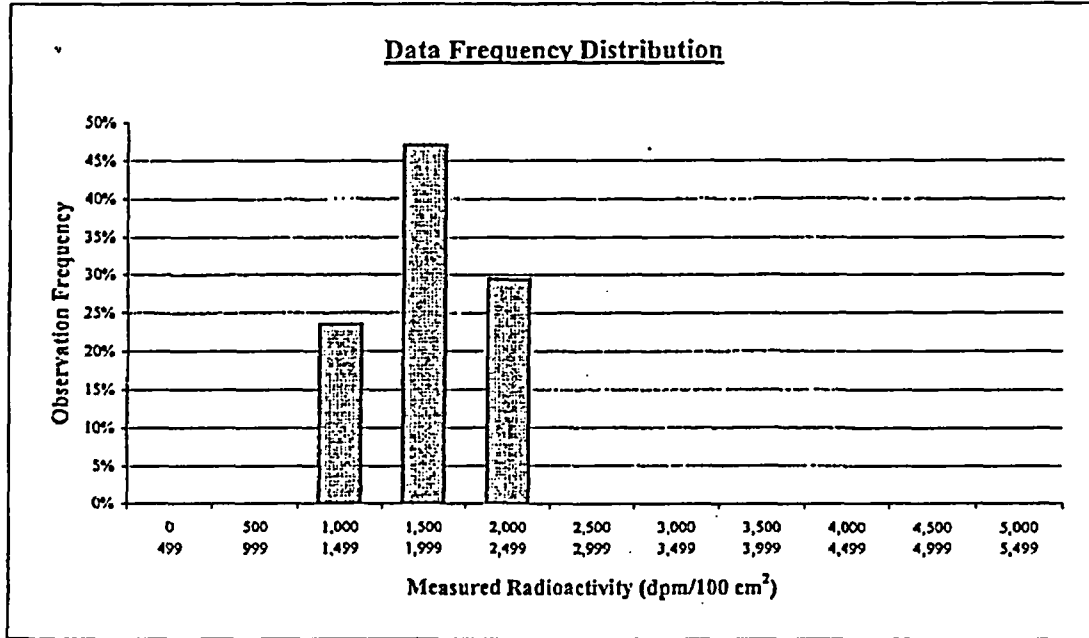
Classification: Class 1
Size (m²): 136

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | |
|-------------------------|------------------|---------------------|-------------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? |
| Range | 1,065 | 1,495 | Pass |
| Median | 0.186 | 0.500 | Pass |
| Mean | 1,835 | 6,000 | Pass |
| Std Dev | 299 | 1,500 | Pass |

| Statistical Quantities | |
|------------------------|-------|
| Range: | 1,065 |
| Median: | 1,891 |
| Mean: | 1,835 |
| Std Dev: | 299 |
| Minimum: | 1,271 |
| Maximum: | 2,336 |
| DCGL: | 7,500 |

All data less than DCGL; Sign statistical test not required.



| Plot Parameters | |
|---------------------|-------|
| # of measurements: | 34 |
| # of intervals: | 11 |
| Interval increment: | 500 |
| Minimum: | 0 |
| Maximum: | 5,499 |

| Interval | High End | Low End | Number of Observations | Observation Frequency |
|----------|----------|---------|------------------------|-----------------------|
| 1 | 499 | 0 | 0 | 0% |
| 2 | 999 | 500 | 0 | 0% |
| 3 | 1,499 | 1,000 | 8 | 24% |
| 4 | 1,999 | 1,500 | 16 | 47% |
| 5 | 2,499 | 2,000 | 10 | 29% |
| 6 | 2,999 | 2,500 | 0 | 0% |
| 7 | 3,499 | 3,000 | 0 | 0% |
| 8 | 3,999 | 3,500 | 0 | 0% |
| 9 | 4,499 | 4,000 | 0 | 0% |
| 10 | 4,999 | 4,500 | 0 | 0% |
| 11 | 5,499 | 5,000 | 0 | 0% |
| Total: | | | 34 | 100% |

Comment:
None.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05045F

Classification: Class 1

Survey Unit Name: AB 45' Elevation –

Size (m²): 136

Radiological Sample Room Floor and Walls

Judgmental and Miscellaneous Data

Measurement Type: Surface Scanning Beta

Scan Coverage (%): 100

Measurement Units: dpm/100cm²

Investigation Level: 7,500

Minimum Value: 871

Maximum Value: 6,421

Measurement Type: Removable Beta

Number of Measurements: 34

Measurement Units: dpm/100cm²

Investigation Level: 750

Minimum Value: 48

Maximum Value: 83

Discussion of Anomalous Measurement Data

Investigation Summary

No investigation required for this survey unit. No anomalous measurement data.

FINAL SURVEY RESULTS SUMMARY

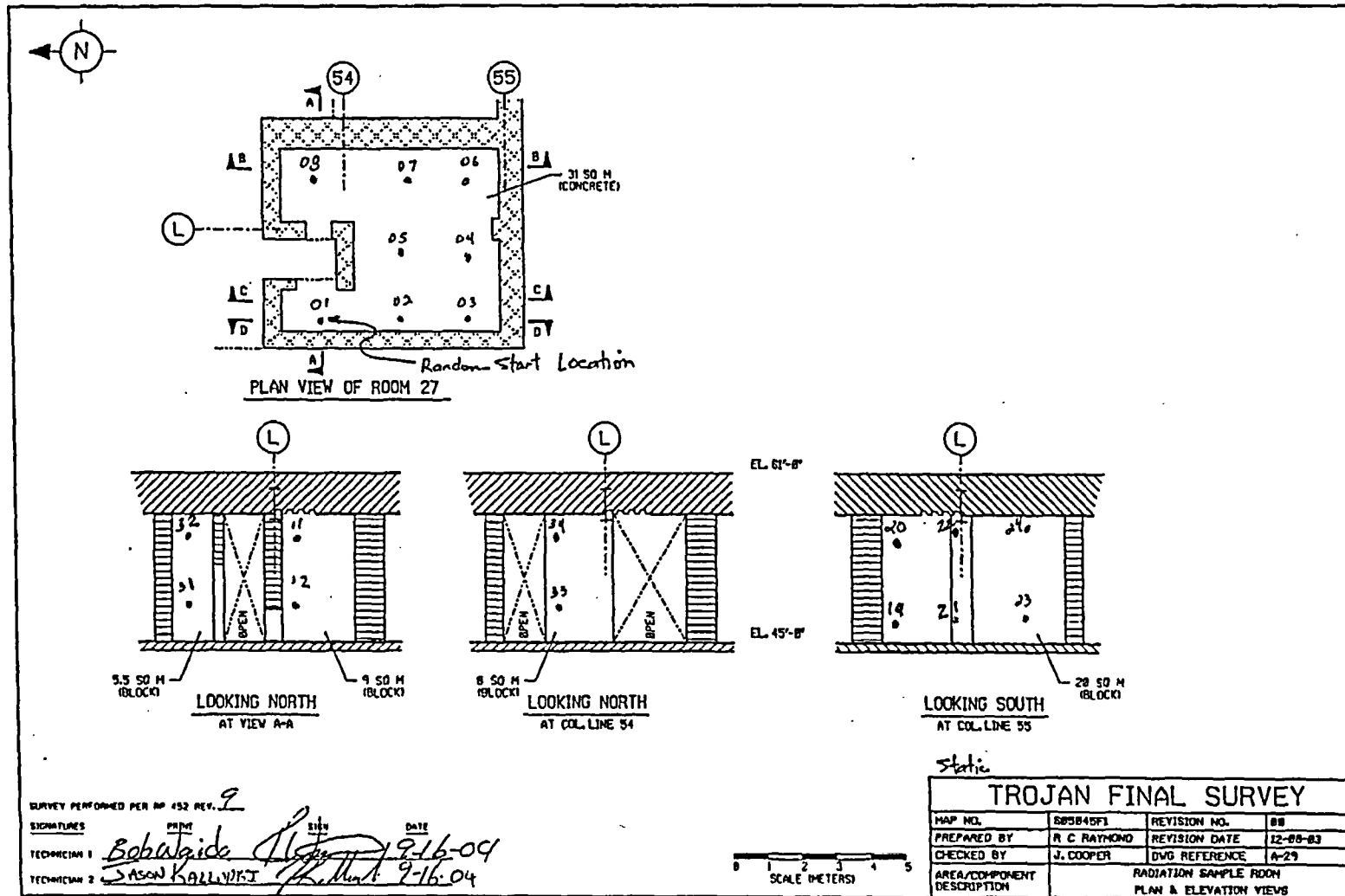
Survey Unit ID Code: S05045F

Survey Unit Name: AB 45' Elevation - Radiological Sample Room Floor and Walls

Classification: Class 1

Size (m²): 136

Static Measurement Location Map



FINAL SURVEY RESULTS SUMMARY

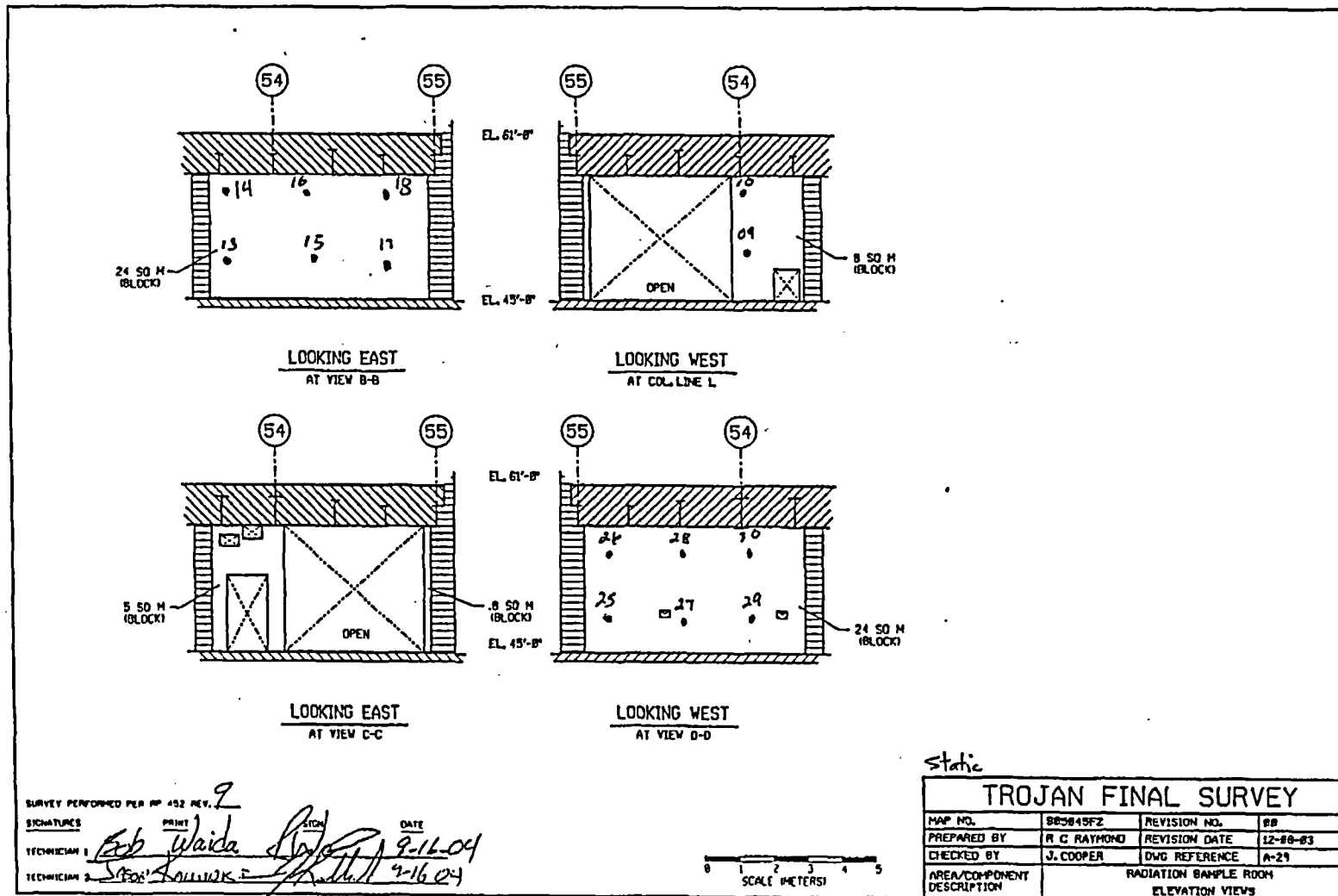
Survey Unit ID Code: S05045F

Survey Unit Name: AB 45' Elevation - Radiological Sample Room Floor and Walls

Classification: Class 1

Size (m²): 136

Static Measurement Location Map



SURVEY PERFORMED PER RP 452 REV. 2
 SIGNATURES: *Bob Waida* (PRINT), *[Signature]* (SIGN)
 TECHNICIAN 1: Bob Waida
 TECHNICIAN 2: *[Signature]*
 DATE: 9-16-04

Static

| TROJAN FINAL SURVEY | | | |
|----------------------------|---------------------------------------|---------------|----------|
| MAP NO. | S05045F2 | REVISION NO. | 00 |
| PREPARED BY | R C RAYMOND | REVISION DATE | 12-08-03 |
| CHECKED BY | J. COOPER | DWG REFERENCE | A-21 |
| AREA/COMPONENT DESCRIPTION | RADIATION SAMPLE ROOM ELEVATION VIEWS | | |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05045G
 Survey Unit Name: AB 45' Elevation - Pipe Facade

Classification: Class 1
 Size (m²): 290

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|-----------------------|------------|-------------------------|------------|-----|-----|
| 1 | 52 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 1.109e+003
 Maximum Value : 3.282e+003
 Range : 2.173e+003
 Median : 1.783e+003
 Std. Deviation : 4.648e+002
 Mean : 1.823e+003
 95% UCL : 1.931e+003

Measurement Values

| Location | Value | Location | Value | Location | Value |
|----------|------------|----------|------------|----------|------------|
| 000001 | 1.436e+003 | 000018 | 2.268e+003 | 000035 | 1.883e+003 |
| 000002 | 1.310e+003 | 000019 | 2.349e+003 | 000036 | 2.060e+003 |
| 000003 | 1.493e+003 | 000020 | 1.304e+003 | 000037 | 2.079e+003 |
| 000004 | 2.356e+003 | 000021 | 1.127e+003 | 000038 | 2.362e+003 |
| 000005 | 1.461e+003 | 000022 | 1.159e+003 | 000039 | 1.757e+003 |
| 000006 | 1.316e+003 | 000023 | 1.474e+003 | 000040 | 2.608e+003 |
| 000007 | 1.354e+003 | 000024 | 1.109e+003 | 000041 | 3.282e+003 |
| 000008 | 1.354e+003 | 000025 | 1.279e+003 | 000042 | 1.783e+003 |
| 000009 | 1.644e+003 | 000026 | 1.499e+003 | 000043 | 2.041e+003 |
| 000010 | 2.242e+003 | 000027 | 1.770e+003 | 000044 | 2.047e+003 |
| 000011 | 2.211e+003 | 000028 | 1.417e+003 | 000045 | 1.814e+003 |
| 000012 | 2.286e+003 | 000029 | 1.650e+003 | 000046 | 2.003e+003 |
| 000013 | 2.268e+003 | 000030 | 2.501e+003 | 000047 | 1.783e+003 |
| 000014 | 1.783e+003 | 000031 | 2.312e+003 | 000048 | 1.915e+003 |
| 000015 | 2.375e+003 | 000032 | 1.424e+003 | 000049 | 1.512e+003 |
| 000016 | 2.400e+003 | 000033 | 2.110e+003 | 000050 | 1.480e+003 |
| 000017 | 1.726e+003 | 000034 | 2.022e+003 | 000051 | 1.335e+003 |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05045G

Classification: Class 1

Survey Unit Name: AB 45' Elevation – Pipe Facade

Size (m²): 290

Data Quality Values

| <u>Location</u> | <u>Value</u> |
|-----------------|--------------|
| 000052 | 1.253e+003 |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05045G

Classification: Class 1

Survey Unit Name: AB 45' Elevation - Pipe Facade

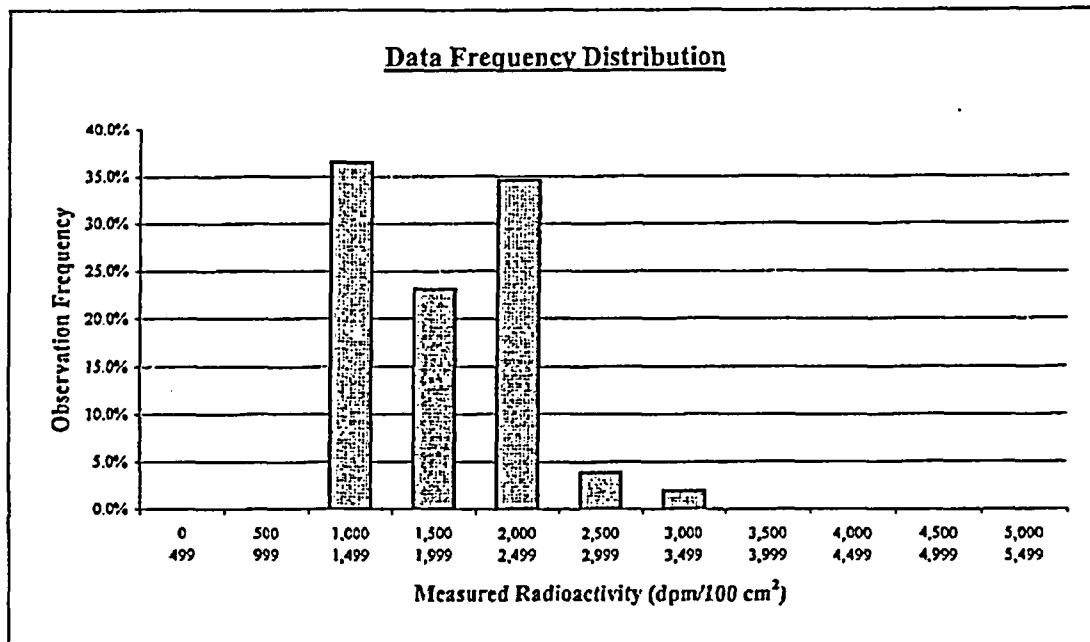
Size (m²): 290

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | |
|-------------------------|------------------|---------------------|-------------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? |
| Range | 2,173 | 2,324 | Pass |
| Median | 0.086 | 0.500 | Pass |
| Mean | 1,823 | 6,000 | Pass |
| Std Dev | 465 | 1,500 | Pass |

| Statistical Quantities | |
|------------------------|-------|
| Range: | 2,173 |
| Median: | 1,783 |
| Mean: | 1,823 |
| Std Dev: | 465 |
| Minimum: | 1,109 |
| Maximum: | 3,282 |
| DCGL: | 7,500 |

All data less than DCGL; Sign statistical test not required.



| Plot Parameters | |
|---------------------|-------|
| # of measurements: | 52 |
| # of intervals: | 11 |
| Interval increment: | 500 |
| Minimum: | 0 |
| Maximum: | 5,499 |

| Interval | High End | Low End | Number of Observations | Observation Frequency |
|----------|----------|---------|------------------------|-----------------------|
| 1 | 499 | 0 | 0 | 0.0% |
| 2 | 999 | 500 | 0 | 0.0% |
| 3 | 1,499 | 1,000 | 19 | 36.5% |
| 4 | 1,999 | 1,500 | 12 | 23.1% |
| 5 | 2,499 | 2,000 | 18 | 34.6% |
| 6 | 2,999 | 2,500 | 2 | 3.8% |
| 7 | 3,499 | 3,000 | 1 | 1.9% |
| 8 | 3,999 | 3,500 | 0 | 0.0% |
| 9 | 4,499 | 4,000 | 0 | 0.0% |
| 10 | 4,999 | 4,500 | 0 | 0.0% |
| 11 | 5,499 | 5,000 | 0 | 0.0% |
| Total: | | | 52 | 100% |

Comment:
None.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05045G
Survey Unit Name: AB 45' Elevation – Pipe Facade

Classification: Class 1
Size (m²): 290

Judgmental and Miscellaneous Data

Measurement Type: Surface Scanning Beta
Measurement Units: dpm/100cm²
Minimum Value: 756

Scan Coverage (%): 100
Investigation Level: 7,500
Maximum Value: 13,530

Measurement Type: Removable Beta
Measurement Units: dpm/100cm²
Minimum Value: 37

Number of Measurements: 52
Investigation Level: 750
Maximum Value: 88

Measurement Type: Sand
Measurement Units: dimensionless
Minimum Value: 0.020

Number of Measurements: 14
Investigation Level: 1
Maximum Value: 0.103

Discussion of Anomalous Measurement Data

Investigation Summary

Reason for Investigation: Seventeen scan measurements exceeded the investigation level.

Elevated Measurement Comparison (EMC):

| | |
|---|------------------------|
| DCGL (Investigation Level): | 7,500 |
| Measurement Units: | dpm/100cm ² |
| Maximum Value: | 34,300 |
| Size of Area Exceeding DCGL (m²): | 0.51 |
| Size of Survey Unit (m²): | 290 |
| Survey Unit Area >DCGL (%): | 0.18 |
| EMC Value: | 36,750 |

Action Taken: Corrected measurement values for scan locations per guidance in memo FS-018-03; used similar method for measurements for scan locations obtained with a 43-68 gas flow proportional detector. Deleted scan results for scan locations 168, 241, 291, & 317 to be remediated. Replaced original scan results in SDMS with the corrected results for the others. Rescanned remediated areas. Applied EMC data processing to corrected results for scan locations 015, 240, 302, & 310 that remain elevated.

Basis for Action Taken: Technical basis memorandum FS-018-03 provides guidance for correcting SDMS determined scan results for locations that exceed the investigation level by subtracting instrument background from the field results.

FINAL SURVEY RESULTS SUMMARY

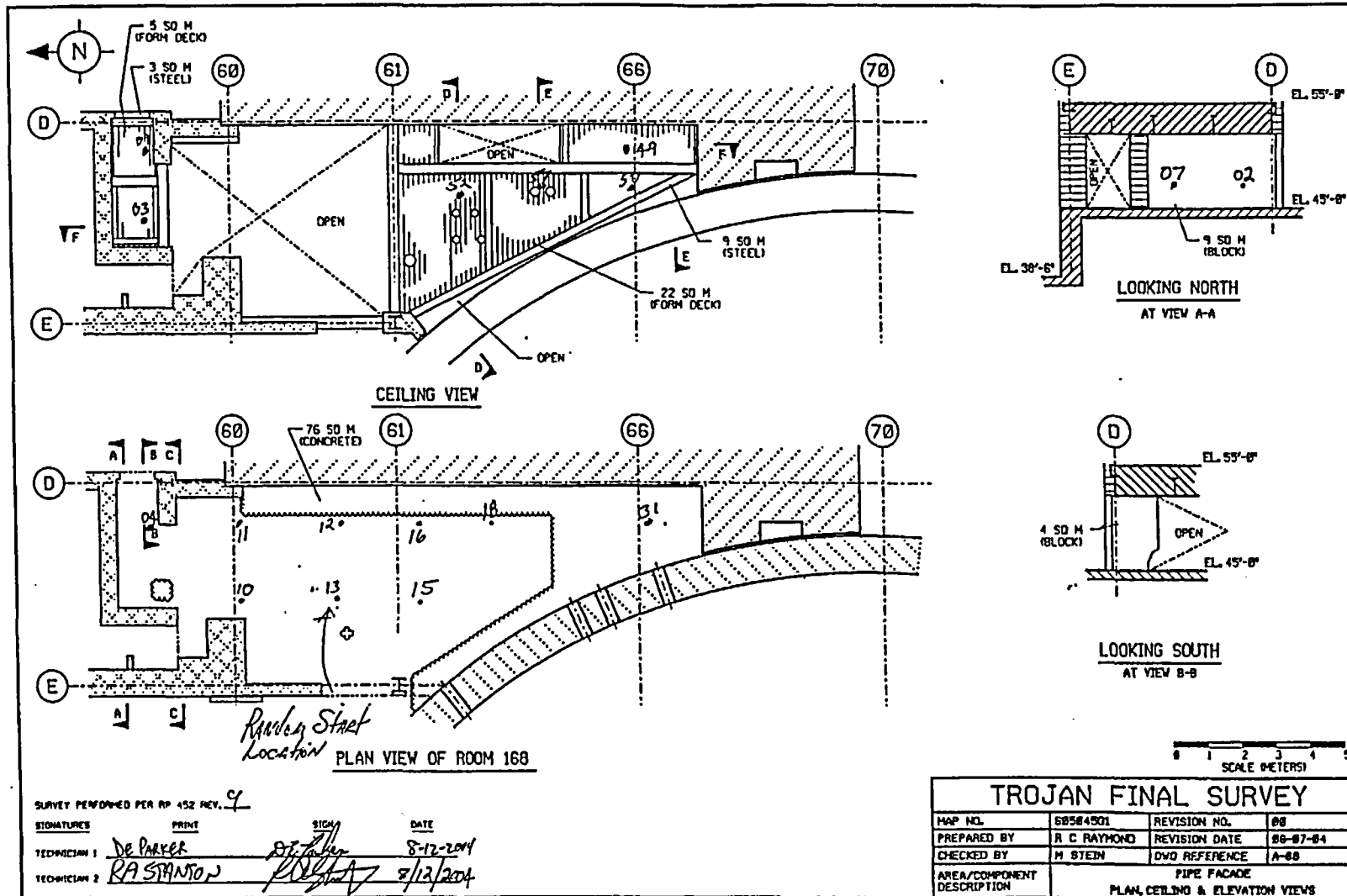
Survey Unit ID Code: S05045G

Survey Unit Name: AB 45' Elevation – Pipe Facade

Classification: Class 1

Size (m²): 290

Static Measurement Location Map



FINAL SURVEY RESULTS SUMMARY

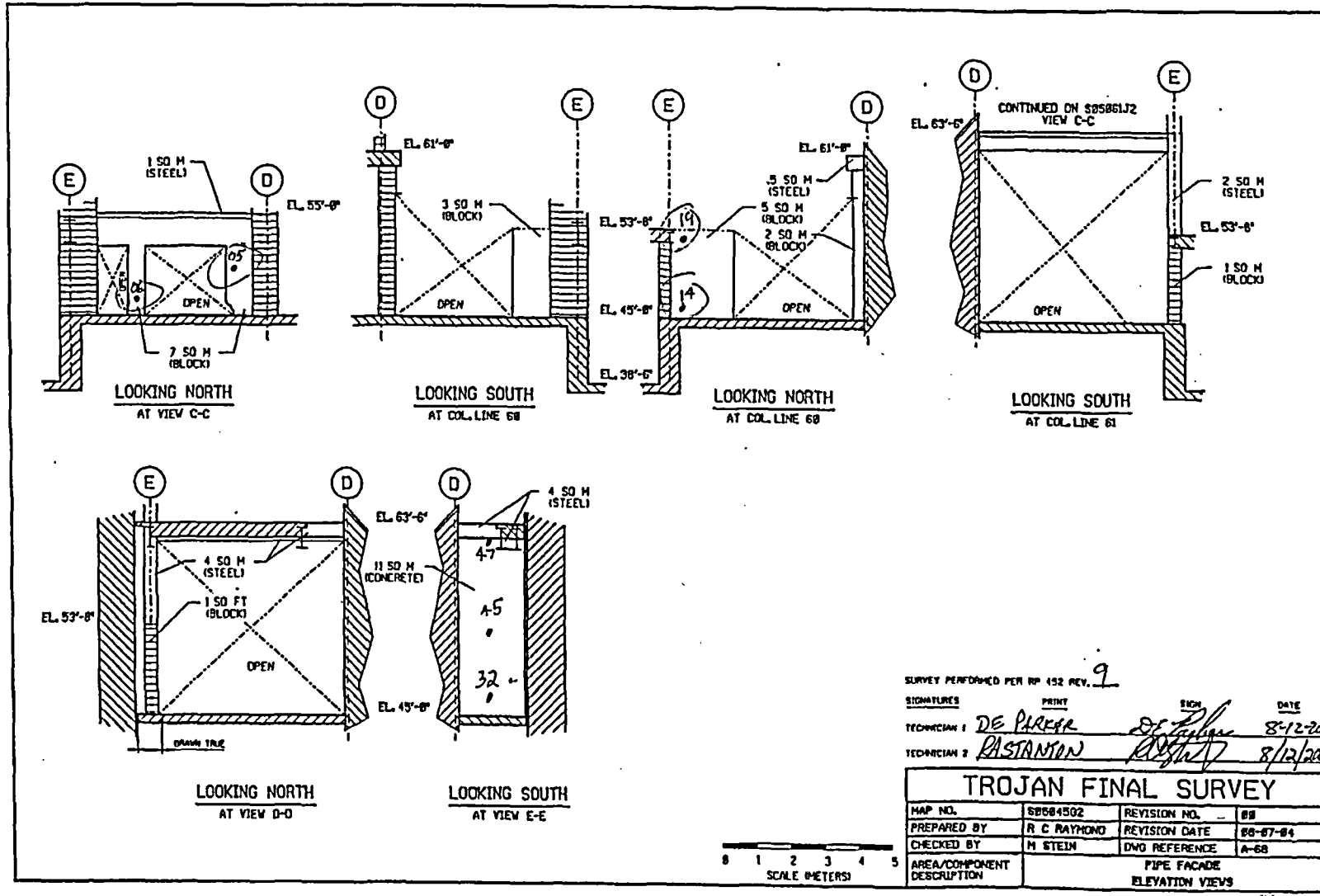
Survey Unit ID Code: S05045G

Survey Unit Name: AB 45' Elevation - Pipe Facade

Classification: Class 1

Size (m²): 290

Static Measurement Location Map



SURVEY PERFORMED PER RP 452 REV. 9

SIGNATURES: DE PARRA, PASTANTON

DATE: 8/12/2009

| TROJAN FINAL SURVEY | | |
|----------------------------|-----------------------------|------------------------|
| MAP NO. | S05045G2 | REVISION NO. 08 |
| PREPARED BY | R C RAYMOND | REVISION DATE 88-87-84 |
| CHECKED BY | M STEIN | DWG REFERENCE A-68 |
| AREA/COMPONENT DESCRIPTION | PIPE FACADE ELEVATION VIEWS | |

FINAL SURVEY RESULTS SUMMARY

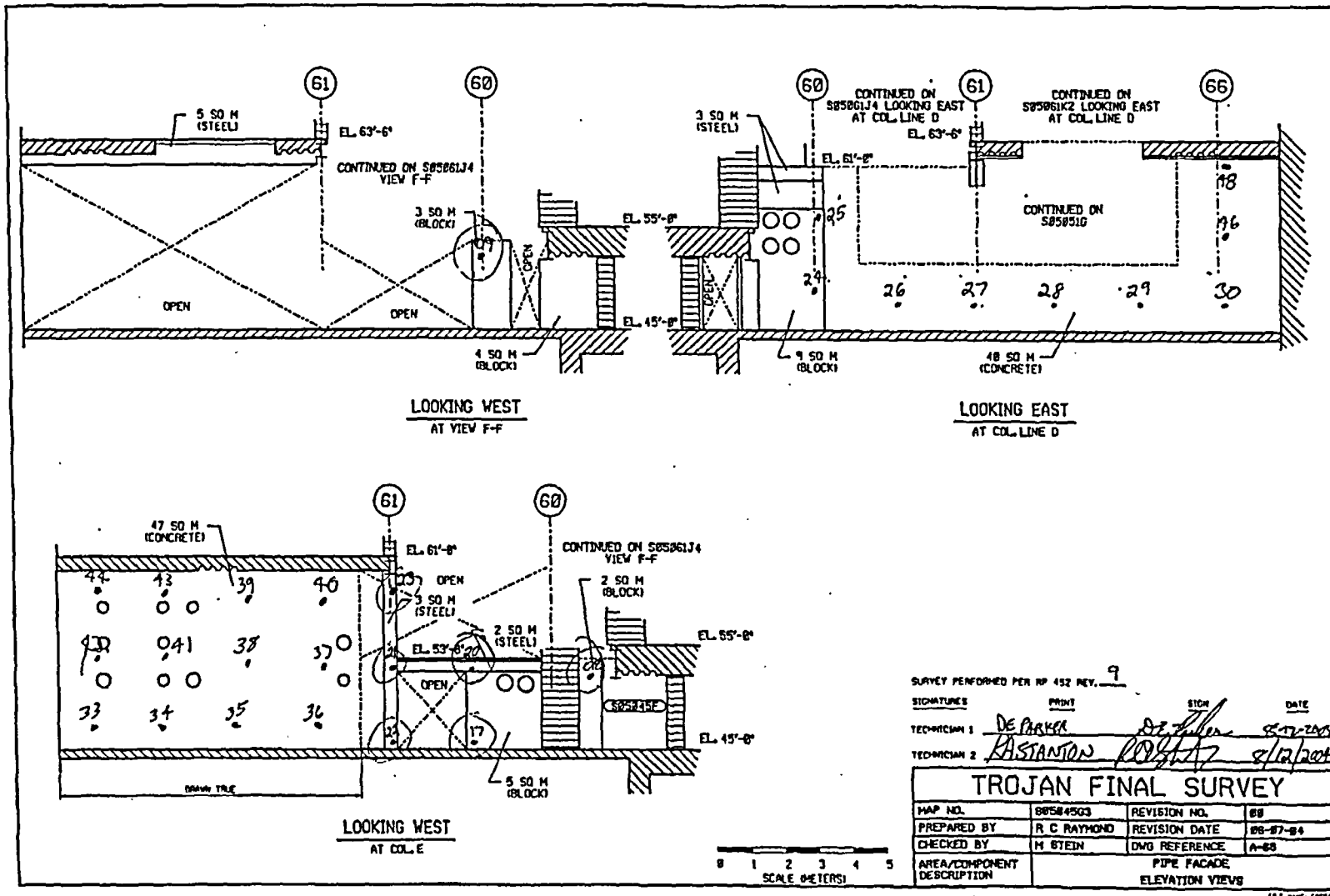
Survey Unit ID Code: S05045G

Survey Unit Name: AB 45' Elevation - Pipe Facade

Classification: Class 1

Size (m²): 290

Static Measurement Location Map



SURVEY PERFORMED PER RP 452 REV. 9

| SIGNATURE | PRINT | SIGN | DATE |
|--------------|------------|--------------------|------------|
| TECHNICIAN 1 | DE PARKER | <i>[Signature]</i> | 05/12/2004 |
| TECHNICIAN 2 | R. STANTON | <i>[Signature]</i> | 8/12/2004 |

| TROJAN FINAL SURVEY | | | |
|----------------------------|-----------------------------|---------------|----------|
| MAP NO. | S05045G3 | REVISION NO. | 00 |
| PREPARED BY | R. C. RAYMOND | REVISION DATE | 08-27-04 |
| CHECKED BY | M. STEIN | DWG REFERENCE | A-03 |
| AREA/COMPONENT DESCRIPTION | PIPE FACADE ELEVATION VIEWS | | |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05045H
 Survey Unit Name: AB 45' Elevation -
 Hot Lab Floor and Lower Walls

Classification: Class 1
 Size (m²): 115

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|-----------------------|------------|-------------------------|------------|-----|-----|
| 1 | 30 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 1.164e+003
 Maximum Value : 2.355e+003
 Range : 1.191e+003
 Median : 1.510e+003
 Std. Deviation : 3.883e+002
 Mean : 1.678e+003
 95% UCL : 1.798e+003

Measurement Values

| Location | Value | Location | Value |
|----------|------------|----------|------------|
| 000001 | 2.082e+003 | 000018 | 1.236e+003 |
| 000002 | 2.244e+003 | 000019 | 1.379e+003 |
| 000003 | 2.296e+003 | 000020 | 1.373e+003 |
| 000004 | 2.192e+003 | 000021 | 1.164e+003 |
| 000005 | 1.906e+003 | 000022 | 1.301e+003 |
| 000006 | 2.186e+003 | 000023 | 1.301e+003 |
| 000007 | 2.082e+003 | 000024 | 1.360e+003 |
| 000008 | 2.160e+003 | 000025 | 1.548e+003 |
| 000009 | 2.043e+003 | 000026 | 1.548e+003 |
| 000010 | 2.186e+003 | 000027 | 1.386e+003 |
| 000011 | 2.355e+003 | 000028 | 1.477e+003 |
| 000012 | 1.574e+003 | 000029 | 1.340e+003 |
| 000013 | 1.464e+003 | 000030 | 1.327e+003 |
| 000014 | 1.438e+003 | | |
| 000015 | 1.516e+003 | | |
| 000016 | 1.373e+003 | | |
| 000017 | 1.503e+003 | | |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05045H
 Survey Unit Name: AB 45' Elevation --
 Hot Lab Floor and Lower Walls

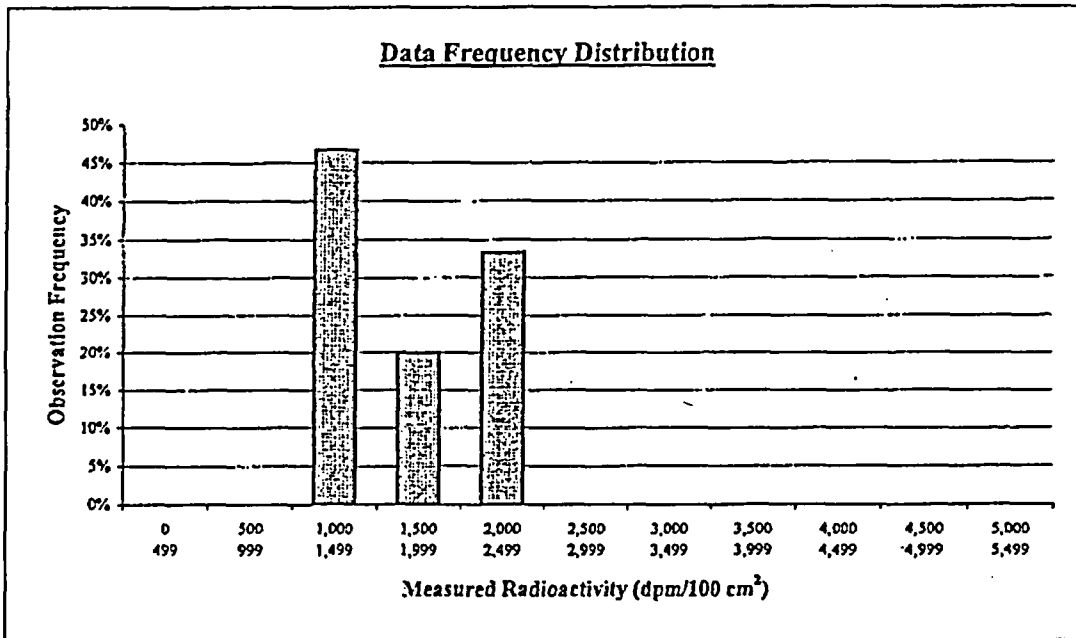
Classification: Class 1
 Size (m²): 115

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | |
|-------------------------|------------------|---------------------|-------------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? |
| Range | 1,191 | 1,942 | Pass |
| Median | 0.434 | 0.500 | Pass |
| Mean | 1,678 | 6,000 | Pass |
| Std Dev | 388 | 1,500 | Pass |

| Statistical Quantities | |
|------------------------|-------|
| Range: | 1,191 |
| Median: | 1,510 |
| Mean: | 1,678 |
| Std Dev: | 388 |
| Minimum: | 1,164 |
| Maximum: | 2,355 |
| DCGL: | 7,500 |

All data less than DCGL; Sign statistical test not required.



| Plot Parameters | |
|---------------------|-------|
| # of measurements: | 30 |
| # of intervals: | 11 |
| Interval increment: | 500 |
| Minimum: | 0 |
| Maximum: | 5,499 |

Comment:
None.

| Interval | High End | Low End | Number of Observations | Observation Frequency |
|----------|----------|---------|------------------------|-----------------------|
| 1 | 499 | 0 | 0 | 0% |
| 2 | 999 | 500 | 0 | 0% |
| 3 | 1,499 | 1,000 | 14 | 47% |
| 4 | 1,999 | 1,500 | 6 | 20% |
| 5 | 2,499 | 2,000 | 10 | 33% |
| 6 | 2,999 | 2,500 | 0 | 0% |
| 7 | 3,499 | 3,000 | 0 | 0% |
| 8 | 3,999 | 3,500 | 0 | 0% |
| 9 | 4,499 | 4,000 | 0 | 0% |
| 10 | 4,999 | 4,500 | 0 | 0% |
| 11 | 5,499 | 5,000 | 0 | 0% |
| Total: | | | 30 | 100% |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05045H
Survey Unit Name: AB 45' Elevation –
Hot Lab Floor and Lower Walls

Classification: Class 1
Size (m²): 115

Judgmental and Miscellaneous Data

Measurement Type: Surface Scanning Beta
Measurement Units: dpm/100cm²
Minimum Value: 903

Scan Coverage (%): 100
Investigation Level: 7,500
Maximum Value: 5,469

Measurement Type: Removable Beta
Measurement Units: dpm/100cm²
Minimum Value: 42

Number of Measurements: 30
Investigation Level: 750
Maximum Value: 77

Discussion of Anomalous Measurement Data

Investigation Summary

No investigation required for this survey unit. No anomalous measurement data.

FINAL SURVEY RESULTS SUMMARY

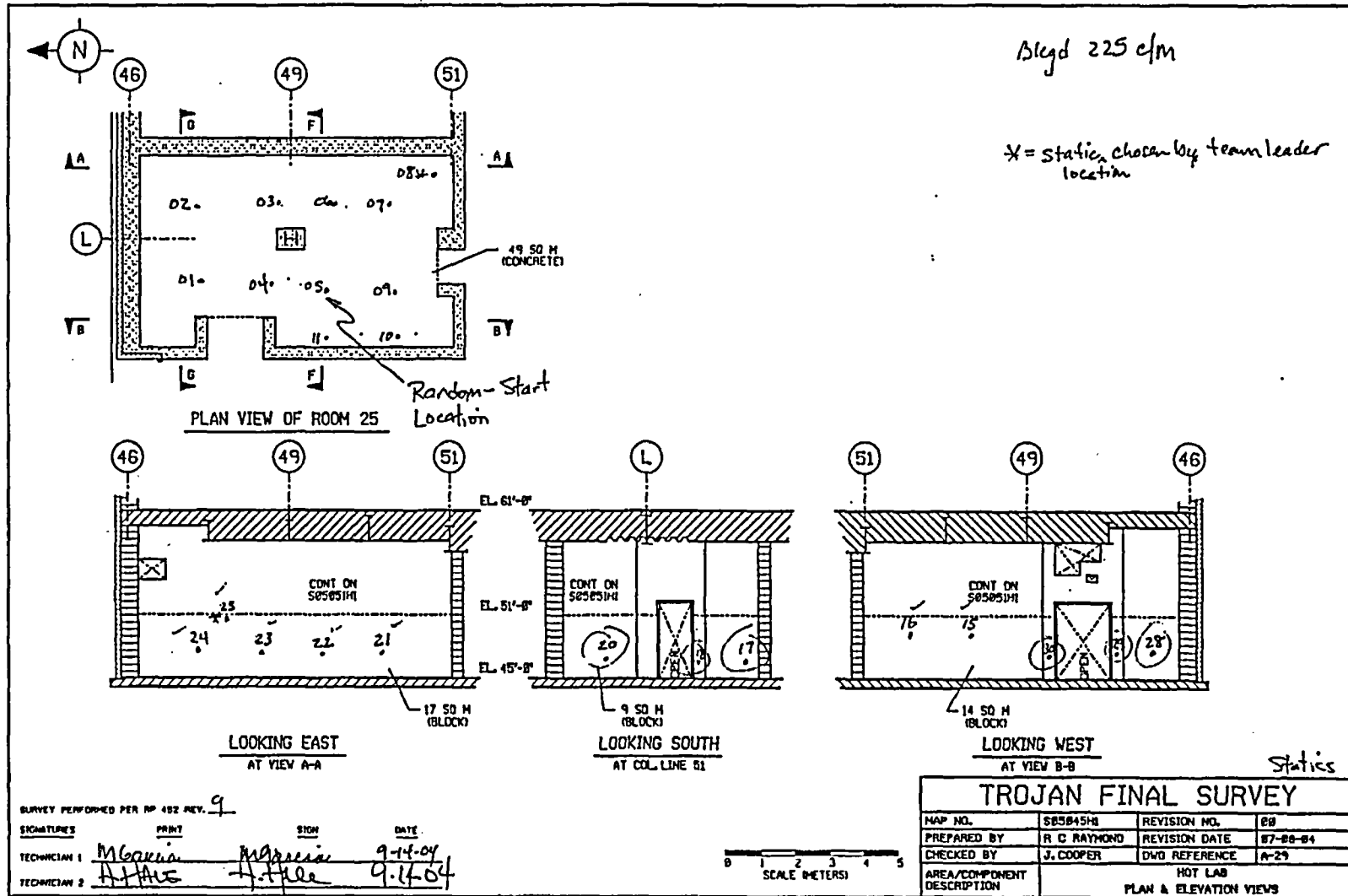
Survey Unit ID Code: S05045H

Survey Unit Name: AB 45' Elevation - Hot Lab Floor and Lower Walls

Classification: Class 1

Size (m²): 115

Static Measurement Location Map



FINAL SURVEY RESULTS SUMMARY

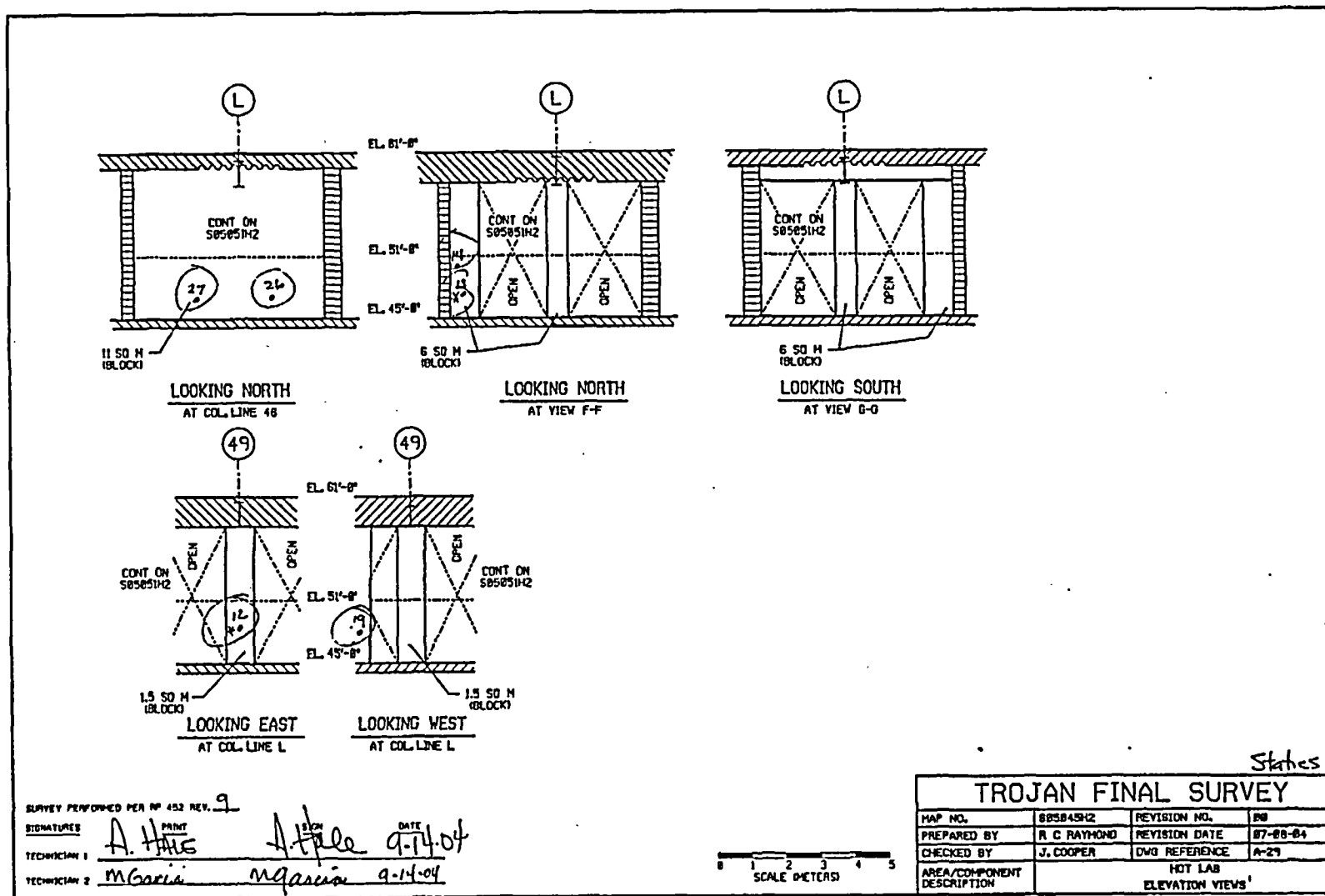
Survey Unit ID Code: S05045H

Survey Unit Name: AB 45' Elevation - Hot Lab Floor and Lower Walls

Classification: Class 1

Size (m²): 115

Static Measurement Location Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05045J

Classification: Class 2

Survey Unit Name: AB 45' Elevation - West Corridor

Size (m²): 407

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|-----------------------|------------|-------------------------|------------|-----|-----|
| 1 | 36 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 9.042e+002
 Maximum Value : 2.355e+003
 Range : 1.451e+003
 Median : 1.350e+003
 Std. Deviation : 3.903e+002
 Mean : 1.492e+003
 95% UCL : 1.601e+003

Measurement Values

| Location | Value | Location | Value | Location | Value |
|----------|------------|----------|------------|----------|------------|
| 000001 | 1.470e+003 | 000018 | 1.386e+003 | 000035 | 1.256e+003 |
| 000002 | 1.015e+003 | 000019 | 1.665e+003 | 000036 | 2.244e+003 |
| 000003 | 1.223e+003 | 000020 | 1.275e+003 | | |
| 000004 | 1.243e+003 | 000021 | 1.334e+003 | | |
| 000005 | 1.327e+003 | 000022 | 1.184e+003 | | |
| 000006 | 1.347e+003 | 000023 | 9.042e+002 | | |
| 000007 | 1.256e+003 | 000024 | 1.262e+003 | | |
| 000008 | 2.355e+003 | 000025 | 1.425e+003 | | |
| 000009 | 1.854e+003 | 000026 | 1.203e+003 | | |
| 000010 | 2.205e+003 | 000027 | 1.295e+003 | | |
| 000011 | 2.199e+003 | 000028 | 1.438e+003 | | |
| 000012 | 1.932e+003 | 000029 | 2.231e+003 | | |
| 000013 | 1.353e+003 | 000030 | 2.160e+003 | | |
| 000014 | 1.177e+003 | 000031 | 1.568e+003 | | |
| 000015 | 1.190e+003 | 000032 | 1.483e+003 | | |
| 000016 | 1.086e+003 | 000033 | 1.425e+003 | | |
| 000017 | 1.262e+003 | 000034 | 1.464e+003 | | |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05045J

Classification: Class 2

Survey Unit Name: AB 45' Elevation - West Corridor

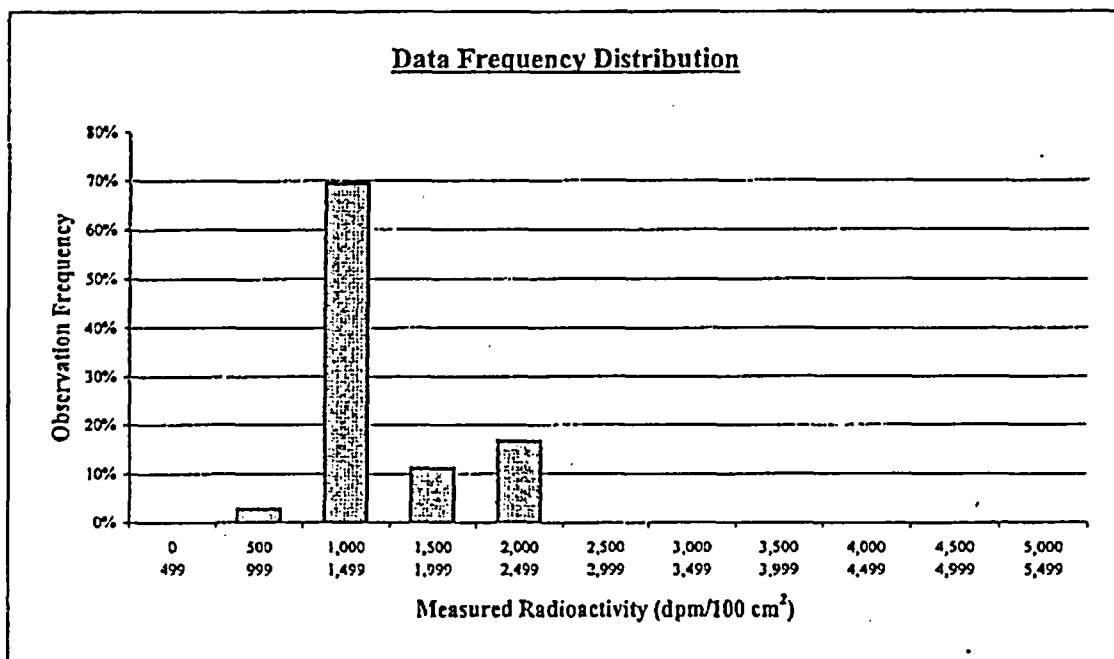
Size (m²): 407

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | |
|-------------------------|------------------|---------------------|-------------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? |
| Range | 1,451 | 1,952 | Pass |
| Median | 0.363 | 0.500 | Pass |
| Mean | 1,492 | 6,000 | Pass |
| Std Dev | 390 | 1,500 | Pass |

| Statistical Quantities | |
|------------------------|-------|
| Range: | 1,451 |
| Median: | 1,350 |
| Mean: | 1,492 |
| Std Dev: | 390 |
| Minimum: | 904 |
| Maximum: | 2,355 |
| DCGL: | 7,500 |

All data less than DCGL; Sign statistical test not required.



| Plot Parameters | |
|---------------------|-------|
| # of measurements: | 36 |
| # of intervals: | 11 |
| Interval increment: | 500 |
| Minimum: | 0 |
| Maximum: | 5,499 |

| Interval | High End | Low End | Number of Observations | Observation Frequency |
|----------|----------|---------|------------------------|-----------------------|
| 1 | 499 | 0 | 0 | 0% |
| 2 | 999 | 500 | 1 | 3% |
| 3 | 1,499 | 1,000 | 25 | 69% |
| 4 | 1,999 | 1,500 | 4 | 11% |
| 5 | 2,499 | 2,000 | 6 | 17% |
| 6 | 2,999 | 2,500 | 0 | 0% |
| 7 | 3,499 | 3,000 | 0 | 0% |
| 8 | 3,999 | 3,500 | 0 | 0% |
| 9 | 4,499 | 4,000 | 0 | 0% |
| 10 | 4,999 | 4,500 | 0 | 0% |
| 11 | 5,499 | 5,000 | 0 | 0% |
| Total: | | | 36 | 100% |

Comment:

None.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05045J
Survey Unit Name: AB 45' Elevation – West Corridor

Classification: Class 2
Size (m²): 407

Judgmental and Miscellaneous Data

Measurement Type: Surface Scanning Beta
Measurement Units: dpm/100cm²
Minimum Value: 886

Scan Coverage (%): 20
Investigation Level: 7,500
Maximum Value: 6,213

Measurement Type: Removable Beta
Measurement Units: dpm/100cm²
Minimum Value: 48

Number of Measurements: 36
Investigation Level: 750
Maximum Value: 77

Discussion of Anomalous Measurement Data

Investigation Summary

No investigation required for this survey unit. No anomalous measurement data.

FINAL SURVEY RESULTS SUMMARY

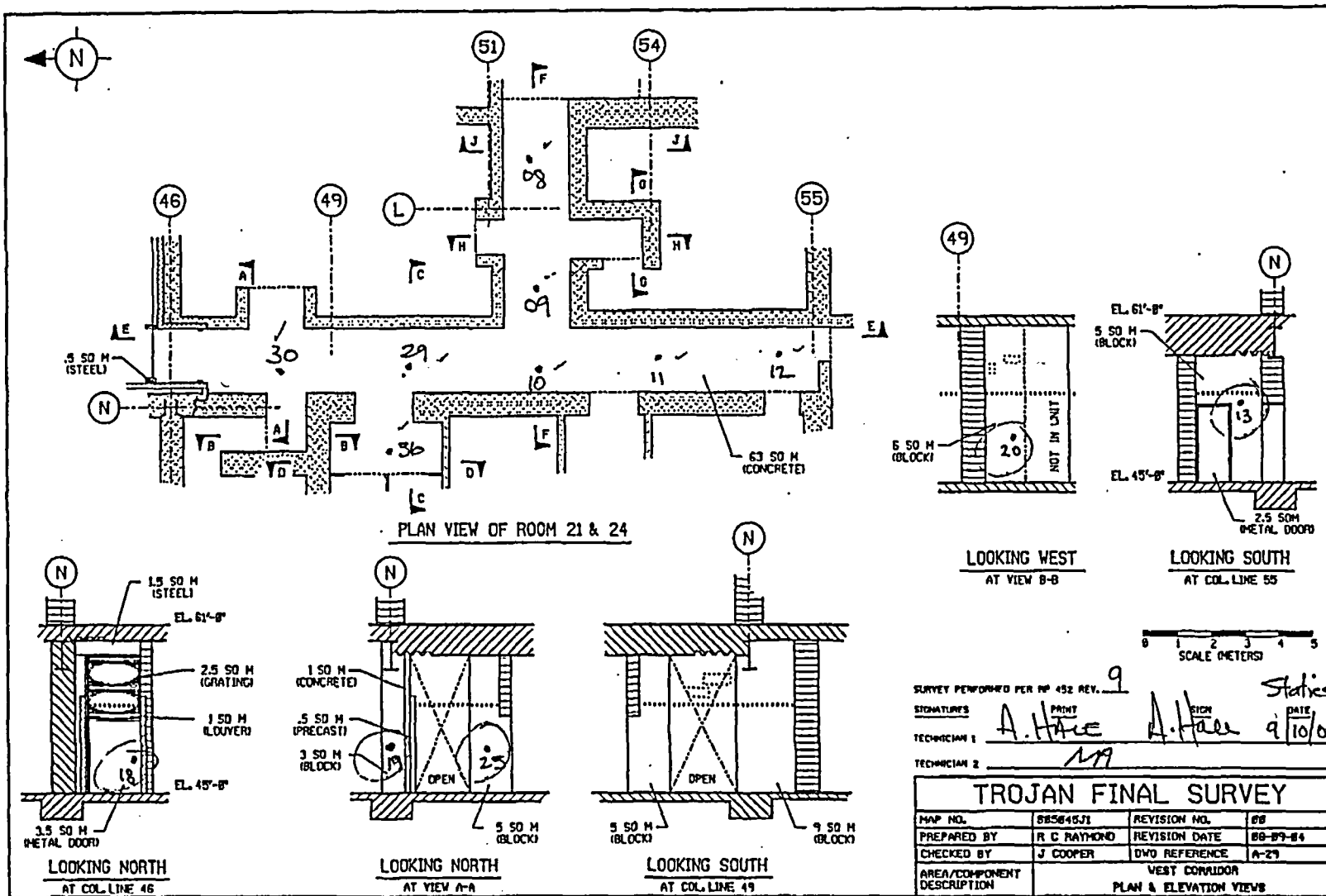
Survey Unit ID Code: S05045J

Survey Unit Name: AB 45' Elevation - West Corridor

Classification: Class 2

Size (m²): 407

Static Measurement Location Map



FINAL SURVEY RESULTS SUMMARY

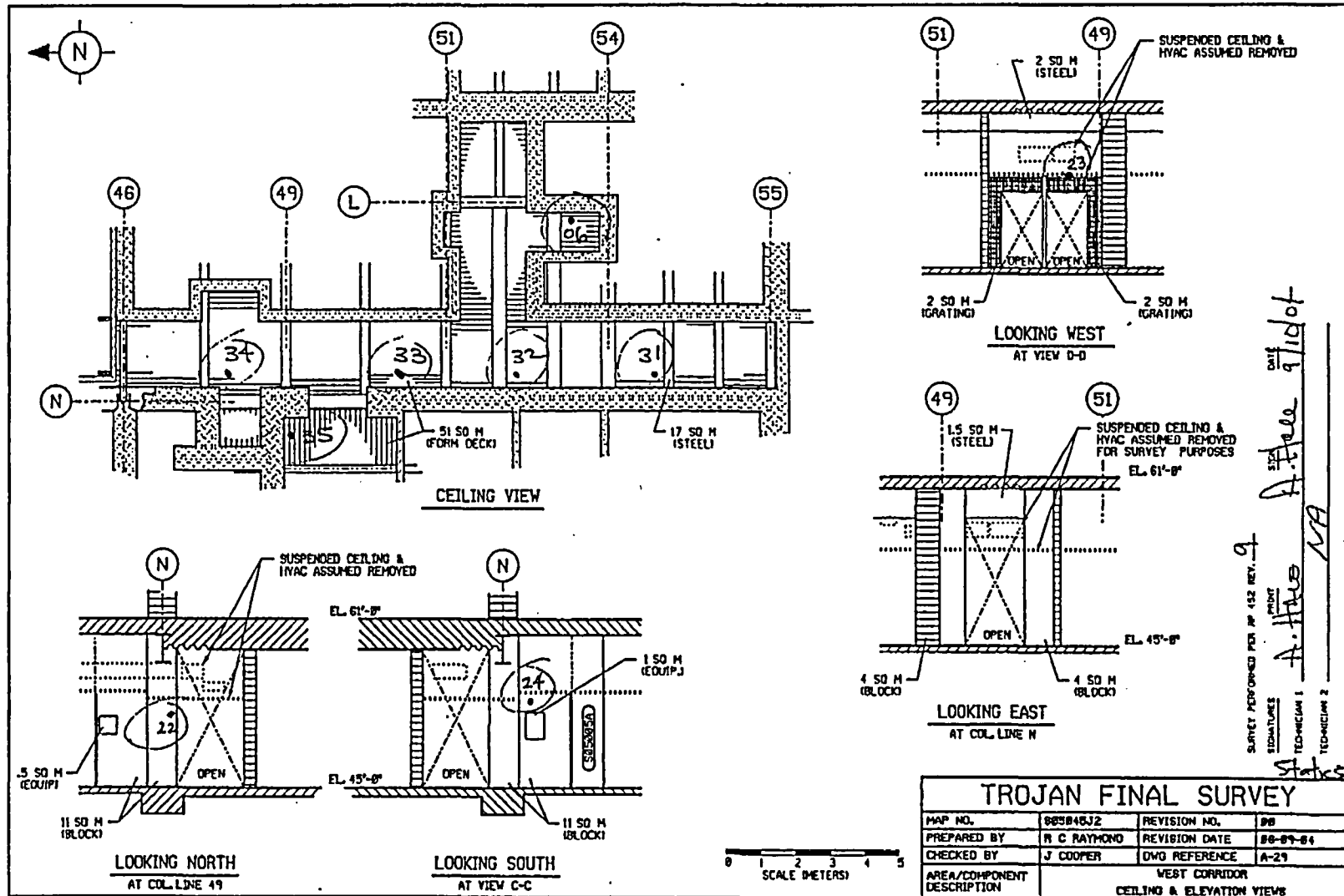
Survey Unit ID Code: S05045J

Survey Unit Name: AB 45' Elevation - West Corridor

Classification: Class 2

Size (m²): 407

Static Measurement Location Map



| TROJAN FINAL SURVEY | | | |
|----------------------------|--|---------------|----------|
| MAP NO. | S05045J2 | REVISION NO. | 00 |
| PREPARED BY | R C RAYMOND | REVISION DATE | 08-09-04 |
| CHECKED BY | J COOPER | DWG REFERENCE | A-29 |
| AREA/COMPONENT DESCRIPTION | WEST CORRIDOR CEILING & ELEVATION VIEWS | | |

FINAL SURVEY RESULTS SUMMARY

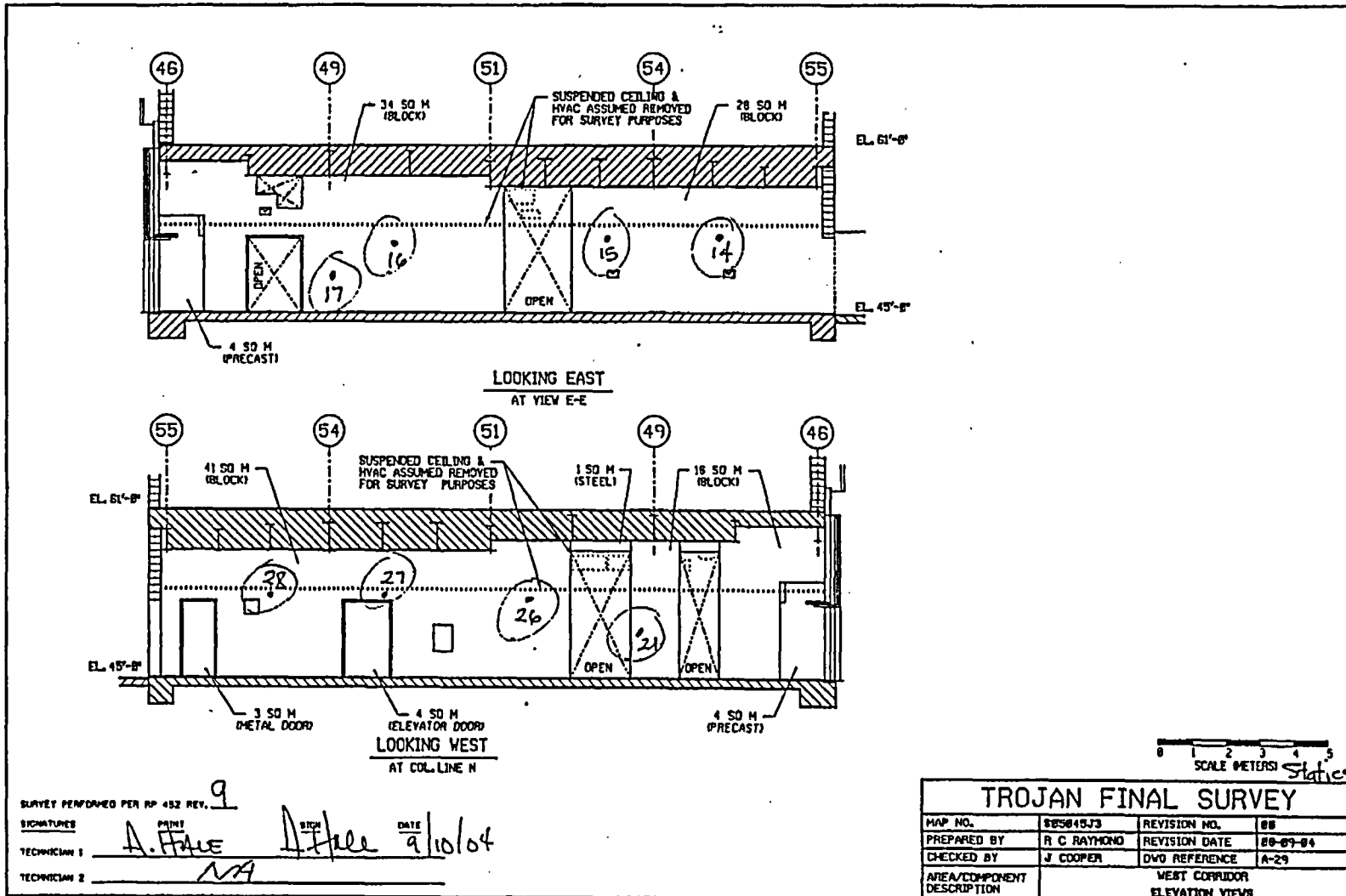
Survey Unit ID Code: S05045J

Survey Unit Name: AB 45' Elevation - West Corridor

Classification: Class 2

Size (m²): 407

Static Measurement Location Map



SURVEY PERFORMED PER RP 452 REV. 9
 SIGNATURES: A. FINE (PRINT) A. Fine (SIGN) DATE 9/10/04
 TECHNICIAN 1: A. FINE
 TECHNICIAN 2: NA

FINAL SURVEY RESULTS SUMMARY

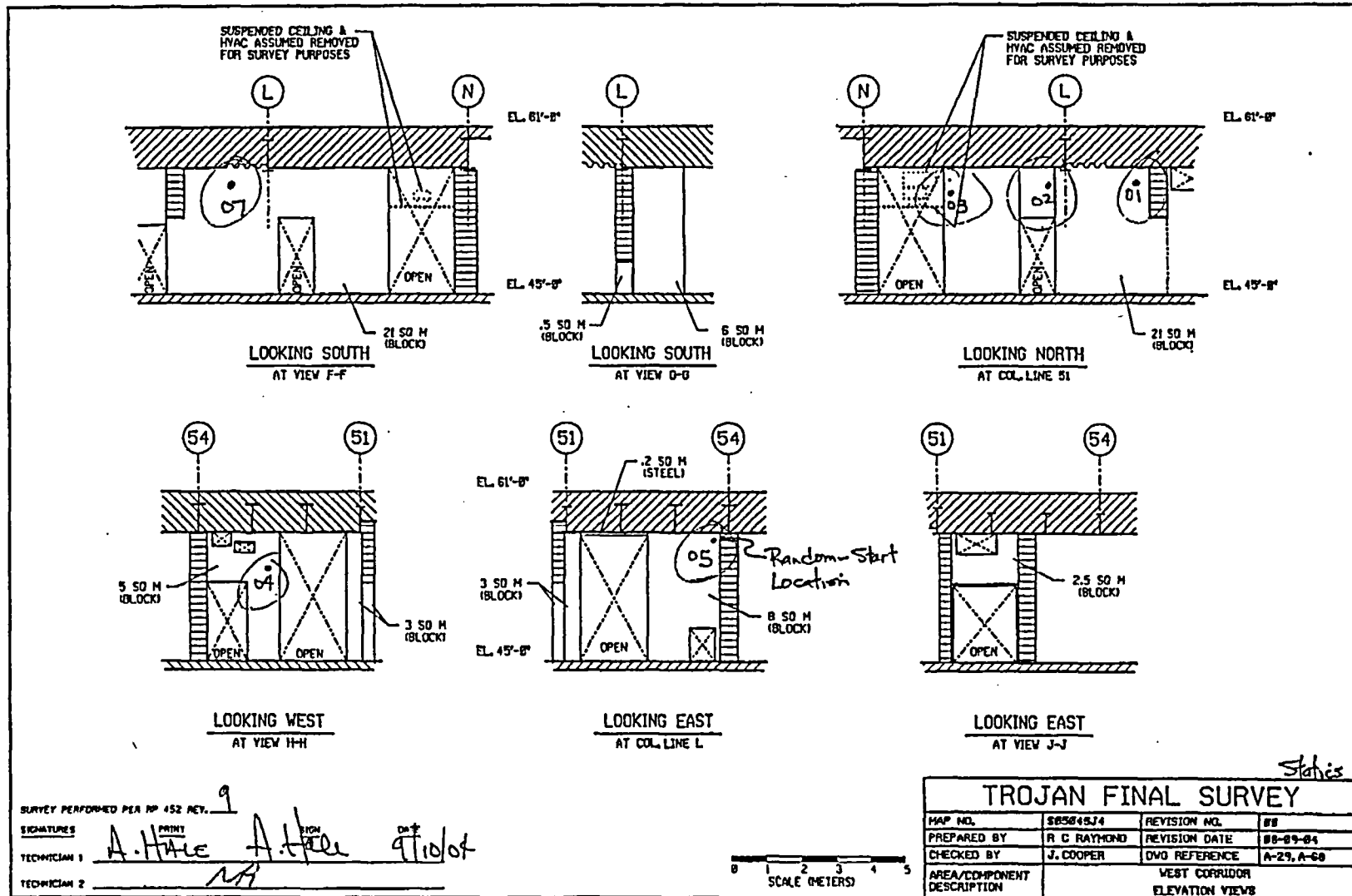
Survey Unit ID Code: S05045J

Survey Unit Name: AB 45' Elevation - West Corridor

Classification: Class 2

Size (m²): 407

Static Measurement Location Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05045K

Classification: Class 1

Survey Unit Name: AB 45' Elevation -

Size (m²): 64

Pipe Penetration Area Valve Gallery Floor and Walls

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|-----------------------|------------|-------------------------|------------|-----|-----|
| 1 | 33 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 1.187e+003
 Maximum Value : 2.387e+003
 Range : 1.200e+003
 Median : 1.486e+003
 Std. Deviation : 3.723e+002
 Mean : 1.608e+003
 95% UCL : 1.718e+003

Measurement Values

| Location | Value | Location | Value |
|----------|------------|----------|------------|
| 000001 | 1.295e+003 | 000018 | 1.587e+003 |
| 000002 | 1.403e+003 | 000019 | 1.778e+003 |
| 000003 | 1.384e+003 | 000020 | 1.606e+003 |
| 000004 | 1.619e+003 | 000021 | 1.651e+003 |
| 000005 | 1.352e+003 | 000022 | 1.187e+003 |
| 000006 | 1.568e+003 | 000023 | 1.492e+003 |
| 000007 | 1.263e+003 | 000024 | 1.270e+003 |
| 000008 | 1.467e+003 | 000025 | 1.257e+003 |
| 000009 | 1.283e+003 | 000026 | 1.302e+003 |
| 000010 | 1.314e+003 | 000027 | 1.333e+003 |
| 000011 | 1.257e+003 | 000028 | 1.486e+003 |
| 000012 | 2.229e+003 | 000029 | 2.343e+003 |
| 000013 | 1.873e+003 | 000030 | 2.387e+003 |
| 000014 | 1.867e+003 | 000031 | 2.241e+003 |
| 000015 | 1.441e+003 | 000032 | 2.362e+003 |
| 000016 | 1.486e+003 | 000033 | 2.222e+003 |
| 000017 | 1.460e+003 | | |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05045K

Classification: Class 1

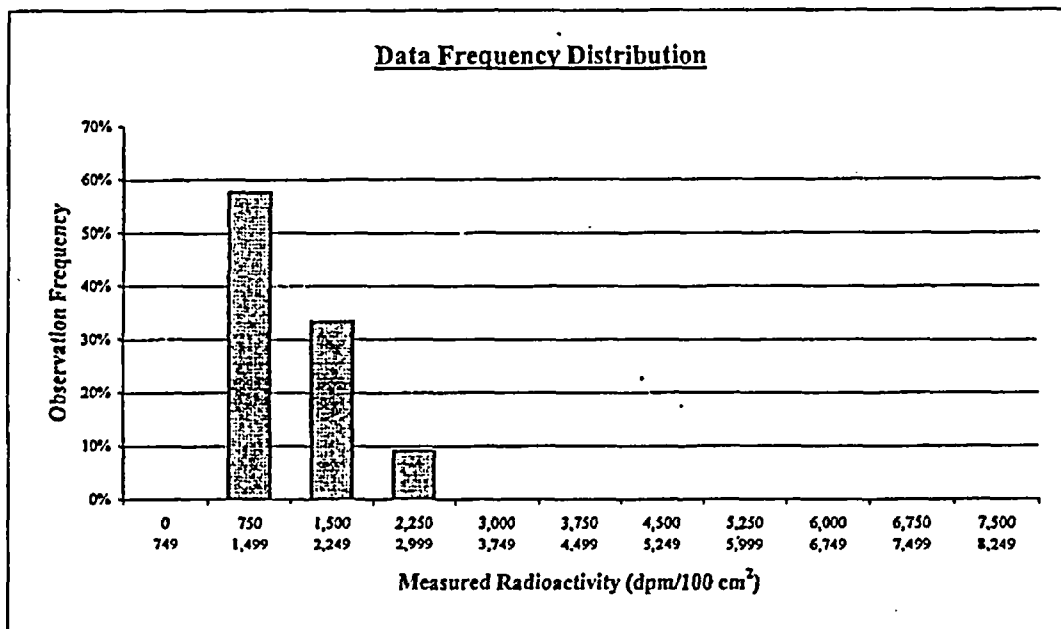
Survey Unit Name: AB 45' Elevation -

Size (m²): 64

Pipe Penetration Area Valve Gallery Floor and Walls

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | | Statistical Quantities | |
|--|------------------|---------------------|-------------|------------------------|-------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? | Range: | 1,200 |
| Range | 1,200 | 1,862 | Pass | Median: | 1,486 |
| Median | 0.328 | 0.500 | Pass | Mean: | 1,608 |
| Mean | 1,608 | 6,000 | Pass | Std Dev: | 372 |
| Std Dev | 372 | 1,500 | Pass | Minimum: | 1,187 |
| All data less than DCGL; Sign statistical test not required. | | | | Maximum: | 2,387 |
| | | | | DCGL: | 7,500 |



| Plot Parameters | Interval | High End | Low End | Number of Observations | Observation Frequency |
|-------------------------|----------|----------|---------|------------------------|-----------------------|
| # of measurements: 33 | 1 | 749 | 0 | 0 | 0% |
| # of intervals: 11 | 2 | 1,499 | 750 | 19 | 58% |
| Interval increment: 750 | 3 | 2,249 | 1,500 | 11 | 33% |
| Minimum: 0 | 4 | 2,999 | 2,250 | 3 | 9% |
| Maximum: 8,249 | 5 | 3,749 | 3,000 | 0 | 0% |
| | 6 | 4,499 | 3,750 | 0 | 0% |
| | 7 | 5,249 | 4,500 | 0 | 0% |
| | 8 | 5,999 | 5,250 | 0 | 0% |
| | 9 | 6,749 | 6,000 | 0 | 0% |
| | 10 | 7,499 | 6,750 | 0 | 0% |
| | 11 | 8,249 | 7,500 | 0 | 0% |
| | Total: | | | 33 | 100% |

Comment:
None.

FINAL SURVEY RESULTS SUMMARY

| | |
|--|---------------------------------|
| Survey Unit ID Code: S05045K | Classification: Class 1 |
| Survey Unit Name: AB 45' Elevation – Pipe Penetration Area Valve Gallery Floor and Walls | Size (m²): 64 |

Judgmental and Miscellaneous Data

| | |
|--|-----------------------------------|
| Measurement Type: Surface Scanning Beta | Scan Coverage (%): 100 |
| Measurement Units: dpm/100cm ² | Investigation Level: 7,500 |
| Minimum Value: 1,690 | Maximum Value: 6,382 |

| | |
|--|-----------------------------------|
| Measurement Type: Removable Beta | Number of Measurements: 33 |
| Measurement Units: dpm/100cm ² | Investigation Level: 750 |
| Minimum Value: 40 | Maximum Value: 77 |

Discussion of Anomalous Measurement Data

Investigation Summary

Reason for Investigation: Forty-four scan measurements exceeded the investigation level.

Elevated Measurement Comparison (EMC):

| | |
|---|------------------------|
| DCGL (Investigation Level): | 7,500 |
| Measurement Units: | dpm/100cm ² |
| Maximum Value: | 31,160 |
| Size of Area Exceeding DCGL (m²): | N/A |
| Size of Survey Unit (m²): | N/A |
| Survey Unit Area >DCGL (%): | N/A |
| EMC Value: | N/A |

Action Taken: Corrected measurement values for scan locations per guidance in memo FS-018-03; used similar method for measurements for scan locations obtained with a 43-68 gas flow proportional detector. Replaced original scan results in SDMS with these results, all of which corrected to less than the investigation level.

Basis for Action Taken: Technical basis memorandum FS-018-03 provides guidance for correcting SDMS determined scan results for locations that exceed the investigation level by subtracting instrument background from the field results.

FINAL SURVEY RESULTS SUMMARY

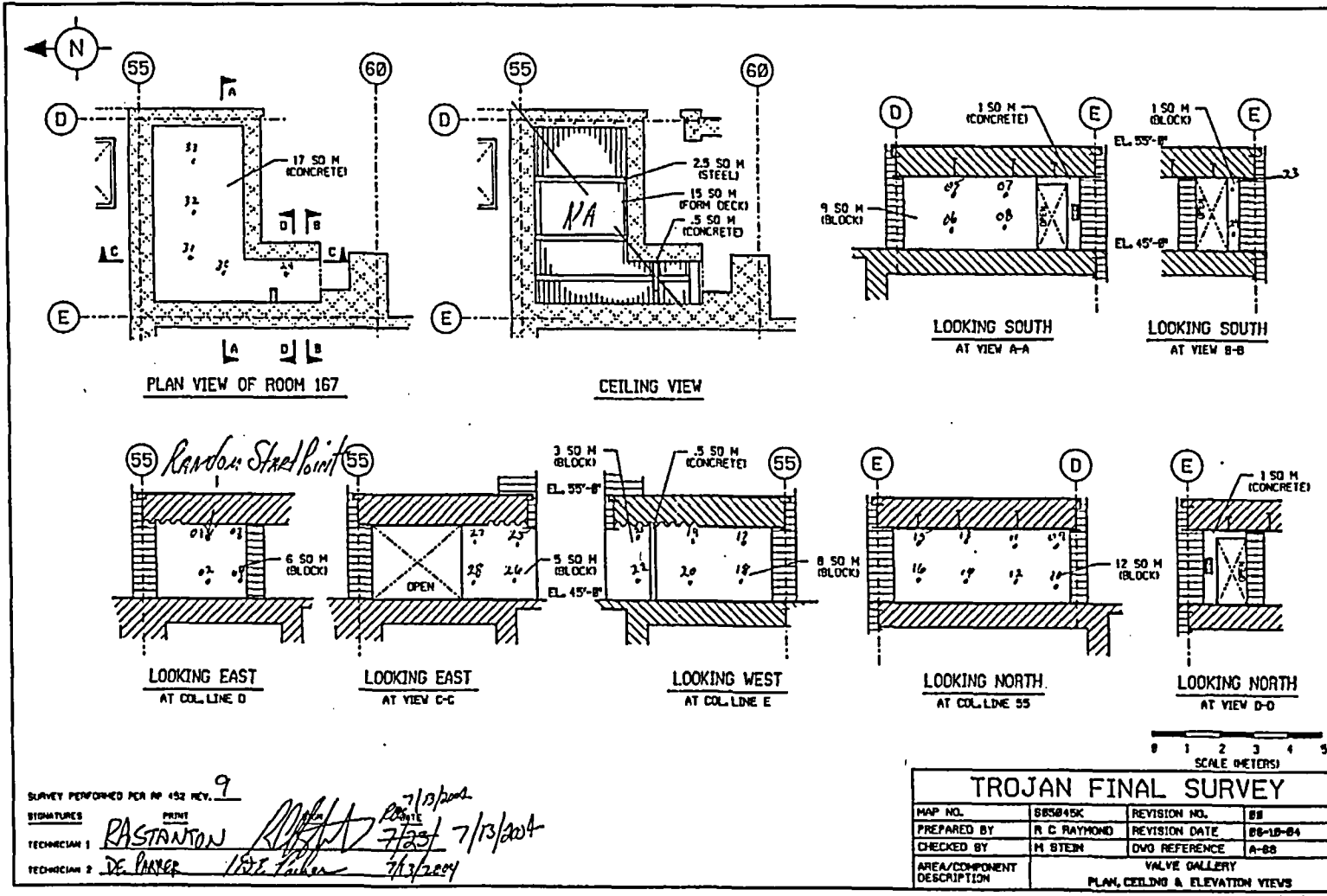
Survey Unit ID Code: S05045K

Survey Unit Name: AB 45' Elevation - Pipe Penetration Area Valve Gallery Floor and Walls

Classification: Class 1

Size (m²): 64

Static Measurement Location Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05045L

Classification: Class 1

Survey Unit Name: AB 45' Elevation -

Size (m²): 201

Pipe Penetration Area Floor, Walls, and Ceiling

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|-----------------------|------------|-------------------------|------------|-----|-----|
| 1 | 35 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 1.339e+003
 Maximum Value : 7.184e+003
 Range : 5.845e+003
 Median : 1.895e+003
 Std. Deviation : 9.386e+002
 Mean : 2.110e+003
 95% UCL : 2.378e+003

Measurement Values

| Location | Value | Location | Value | Location | Value |
|----------|------------|----------|------------|----------|------------|
| 000001 | 1.789e+003 | 000018 | 2.713e+003 | 000035 | 1.339e+003 |
| 000002 | 2.186e+003 | 000019 | 2.037e+003 | | |
| 000003 | 2.470e+003 | 000020 | 1.575e+003 | | |
| 000004 | 1.564e+003 | 000021 | 1.866e+003 | | |
| 000005 | 1.883e+003 | 000022 | 1.878e+003 | | |
| 000006 | 1.670e+003 | 000023 | 2.203e+003 | | |
| 000007 | 1.830e+003 | 000024 | 1.629e+003 | | |
| 000008 | 2.339e+003 | 000025 | 2.209e+003 | | |
| 000009 | 2.162e+003 | 000026 | 2.180e+003 | | |
| 000010 | 2.357e+003 | 000027 | 1.652e+003 | | |
| 000011 | 2.203e+003 | 000028 | 1.777e+003 | | |
| 000012 | 7.184e+003 | 000029 | 2.061e+003 | | |
| 000013 | 2.233e+003 | 000030 | 2.339e+003 | | |
| 000014 | 1.895e+003 | 000031 | 1.410e+003 | | |
| 000015 | 2.298e+003 | 000032 | 1.647e+003 | | |
| 000016 | 2.014e+003 | 000033 | 1.895e+003 | | |
| 000017 | 1.635e+003 | 000034 | 1.729e+003 | | |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05045L

Classification: Class 1

Survey Unit Name: AB 45' Elevation -

Size (m²): 201

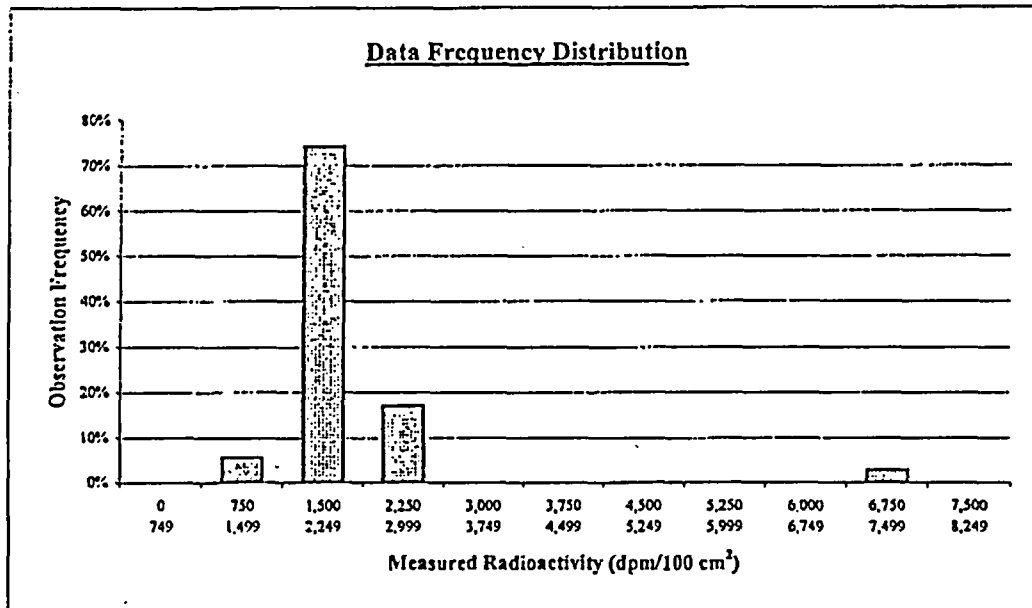
Pipe Penetration Area Floor, Walls, and Ceiling

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | |
|-------------------------|------------------|---------------------|-------------------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? |
| Range | 5,845 | 4,693 | See comment below |
| Median | 0.229 | 0.500 | Pass |
| Mean | 2,110 | 6,000 | Pass |
| Std Dev | 939 | 1,500 | Pass |

| Statistical Quantities | |
|------------------------|-------|
| Range: | 5,845 |
| Median: | 1,895 |
| Mean: | 2,110 |
| Std Dev: | 939 |
| Minimum: | 1,339 |
| Maximum: | 7,184 |
| DCGL: | 7,500 |

All data less than DCGL; Sign statistical test not required.



| Plot Parameters | | Interval | High End | Low End | Number of Observations | Observation Frequency |
|---------------------|-------|----------|----------|---------|------------------------|-----------------------|
| # of measurements: | 35 | 1 | 749 | 0 | 0 | 0% |
| # of intervals: | 11 | 2 | 1,499 | 750 | 2 | 6% |
| Interval increment: | 750 | 3 | 2,249 | 1,500 | 26 | 74% |
| Minimum: | 0 | 4 | 2,999 | 2,250 | 6 | 17% |
| Maximum: | 8,249 | 5 | 3,749 | 3,000 | 0 | 0% |
| | | 6 | 4,499 | 3,750 | 0 | 0% |
| | | 7 | 5,249 | 4,500 | 0 | 0% |
| | | 8 | 5,999 | 5,250 | 0 | 0% |
| | | 9 | 6,749 | 6,000 | 0 | 0% |
| | | 10 | 7,499 | 6,750 | 1 | 3% |
| | | 11 | 8,249 | 7,500 | 0 | 0% |
| | | Total: | | | 35 | 100% |

Comment:

Range failure is a test artifact due to a single measurement value of 7,184 dpm, with the other 34 values all less than 3,000 dpm, resulting in a range value for the data set that exceeds the test criterion of 5 times the standard deviation.

The location (#12) of that high static value is in an area of elevated scans (locations 149 & 150). All measurement values are valid and accepted.

FINAL SURVEY RESULTS SUMMARY

| | |
|--|----------------------------------|
| Survey Unit ID Code: S05045L | Classification: Class 1 |
| Survey Unit Name: AB 45' Elevation – Pipe Penetration Area Floor, Walls, and Ceiling | Size (m²): 201 |

Judgmental and Miscellaneous Data

| | |
|--|-----------------------------------|
| Measurement Type: Surface Scanning Beta | Scan Coverage (%): 100 |
| Measurement Units: dpm/100cm ² | Investigation Level: 7,500 |
| Minimum Value: 1,021 | Maximum Value: 30,810 |

| | |
|--|-----------------------------------|
| Measurement Type: Removable Beta | Number of Measurements: 35 |
| Measurement Units: dpm/100cm ² | Investigation Level: 750 |
| Minimum Value: 37 | Maximum Value: 105 |

Discussion of Anomalous Measurement Data

Investigation Summary Reason for Investigation: Twenty-five scan measurements exceeded the investigation level.

Elevated Measurement Comparison (EMC):

| | |
|---|------------------------|
| DCGL (Investigation Level): | 7,500 |
| Measurement Units: | dpm/100cm ² |
| Maximum Value: | 59,084 |
| Size of Area Exceeding DCGL (m²): | 1.2 |
| Size of Survey Unit (m²): | 201 |
| Survey Unit Area >DCGL (%): | 0.6 |
| EMC Value: | 32,250 |

Action Taken: Corrected measurement values for scan locations per guidance in memo FS-018-03; used similar method for measurements for scan locations obtained with a 43-68 gas flow proportional detector. Deleted scan results for scan locations 008, 148, 151, 154, & 166 to be remediated. Replaced original scan results in SDMS with the corrected results for the others. Rescanned remediated areas. Applied EMC data processing to corrected results for scan locations 007, 022, 149, 152, 209, 216, & 217 that remain elevated.

Basis for Action Taken: Technical basis memorandum FS-018-03 provides guidance for correcting SDMS determined scan results for locations that exceed the investigation level by subtracting instrument background from the field results.

FINAL SURVEY RESULTS SUMMARY

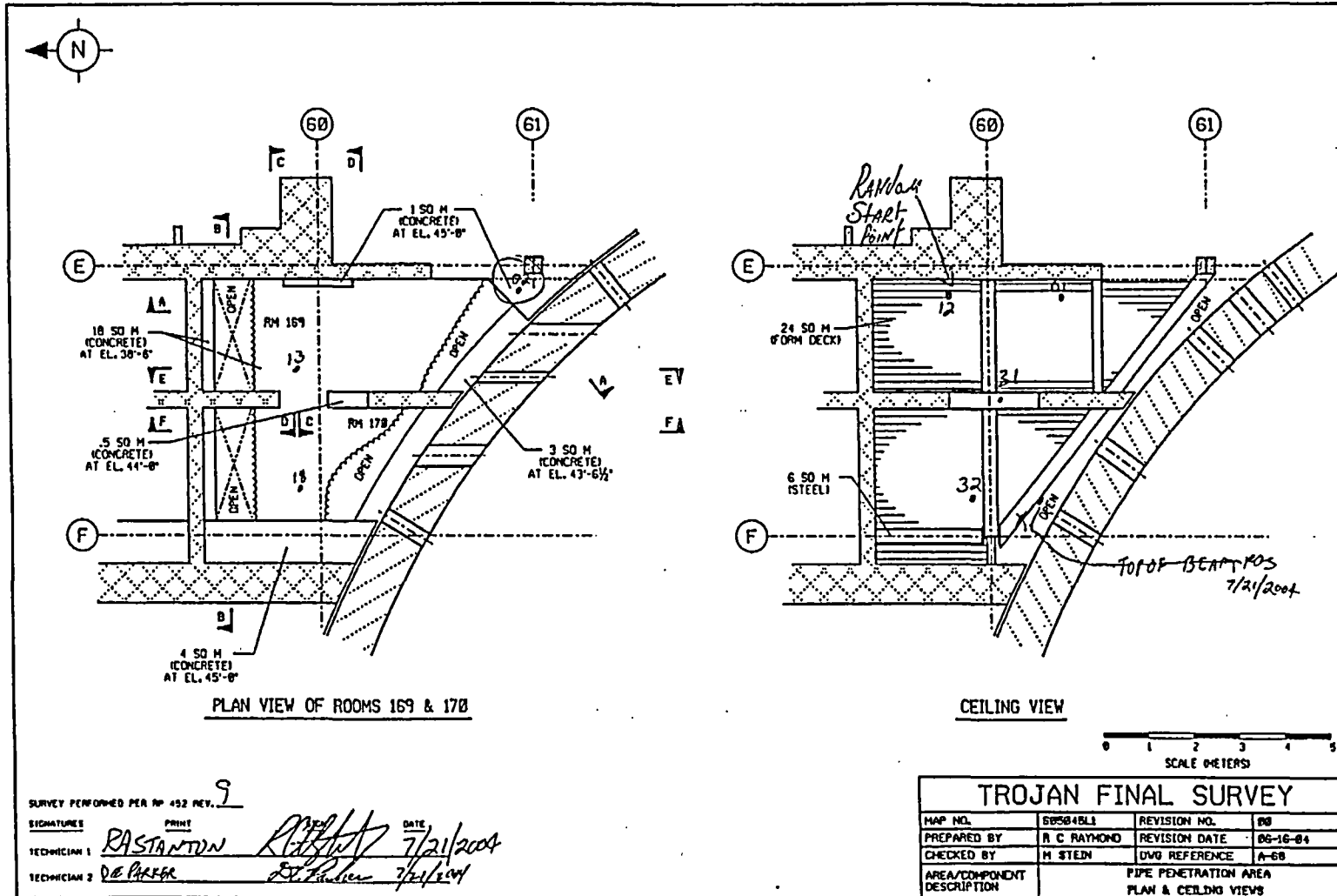
Survey Unit ID Code: S05045L

Classification: Class 1

Survey Unit Name: AB 45' Elevation – Pipe Penetration Area Floor, Walls, and Ceiling

Size (m²): 201

Static Measurement Location Map



FINAL SURVEY RESULTS SUMMARY

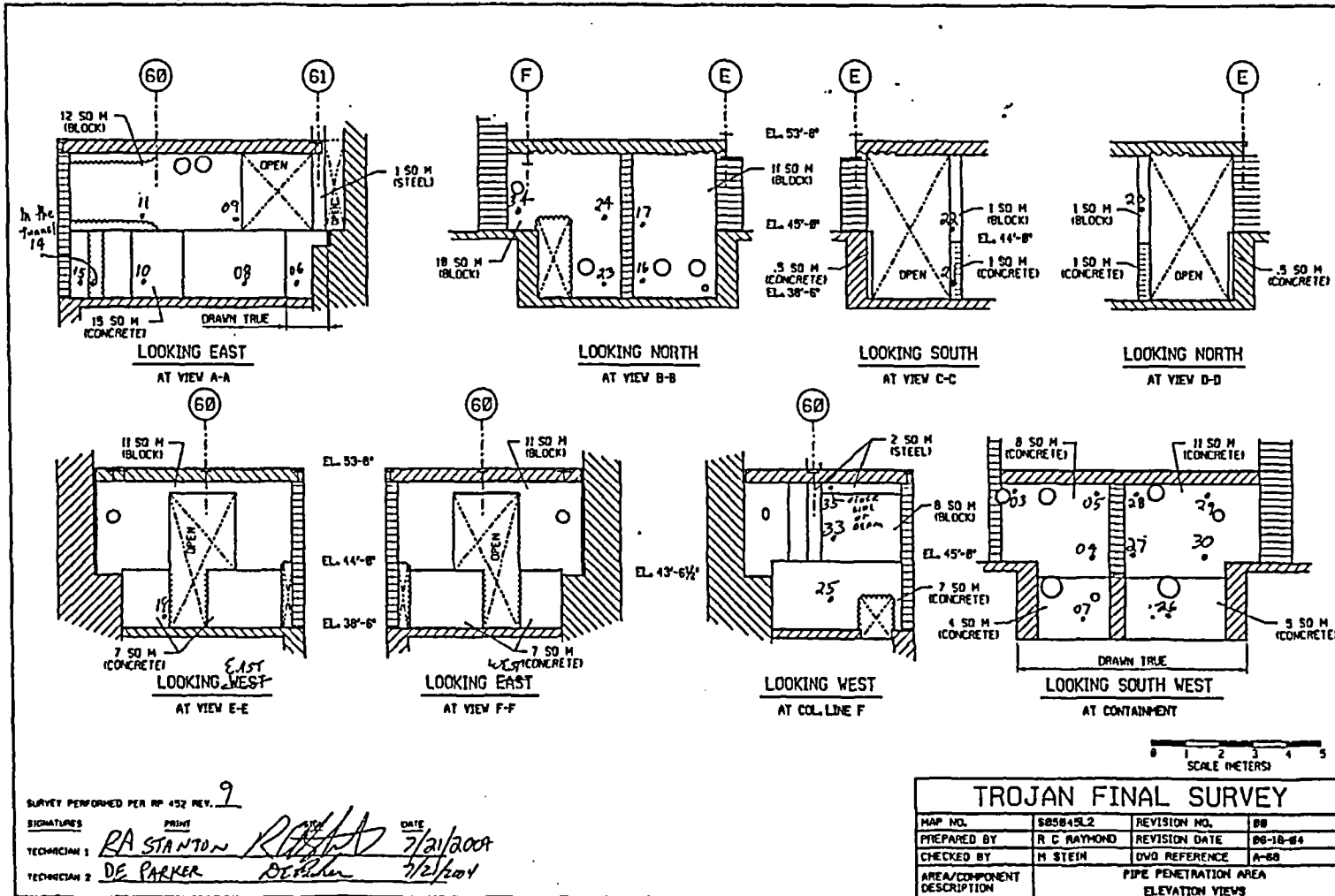
Survey Unit ID Code: S05045L

Survey Unit Name: AB 45' Elevation - Pipe Penetration Area Floor, Walls, and Ceiling

Classification: Class 1

Size (m²): 201

Static Measurement Location Map



SURVEY PERFORMED PER RP 452 REV. 9
 SIGNATURES: RA STANTON (PRINT), DE PARKER (PRINT)
 DATE: 7/21/2004
 TECHNICIAN 1: RA STANTON, DE PARKER
 TECHNICIAN 2: DE PARKER

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05051A

Classification: Class 2

Survey Unit Name: AB 45' Elevation -

Size (m²): 93

Treated Waste Monitor Tank Room Ceiling

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|-----------------------|------------|-------------------------|------------|-----|-----|
| 1 | 31 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 6.060e+002
 Maximum Value : 9.970e+002
 Range : 3.910e+002
 Median : 8.797e+002
 Std. Deviation : 8.694e+001
 Mean : 8.710e+002
 95% UCL : 8.974e+002

Measurement Values

| Location | Value | Location | Value |
|----------|------------|----------|------------|
| 000001 | 9.618e+002 | 000018 | 7.780e+002 |
| 000002 | 8.718e+002 | 000019 | 8.054e+002 |
| 000003 | 9.970e+002 | 000020 | 8.953e+002 |
| 000004 | 8.992e+002 | 000021 | 7.937e+002 |
| 000005 | 9.031e+002 | 000022 | 8.797e+002 |
| 000006 | 9.539e+002 | 000023 | 9.930e+002 |
| 000007 | 7.272e+002 | 000024 | 8.327e+002 |
| 000008 | 8.054e+002 | 000025 | 8.601e+002 |
| 000009 | 8.797e+002 | 000026 | 9.422e+002 |
| 000010 | 9.539e+002 | 000027 | 9.539e+002 |
| 000011 | 8.367e+002 | 000028 | 6.060e+002 |
| 000012 | 9.539e+002 | 000029 | 7.663e+002 |
| 000013 | 8.249e+002 | 000030 | 9.657e+002 |
| 000014 | 8.288e+002 | 000031 | 9.539e+002 |
| 000015 | 8.171e+002 | | |
| 000016 | 9.109e+002 | | |
| 000017 | 8.484e+002 | | |

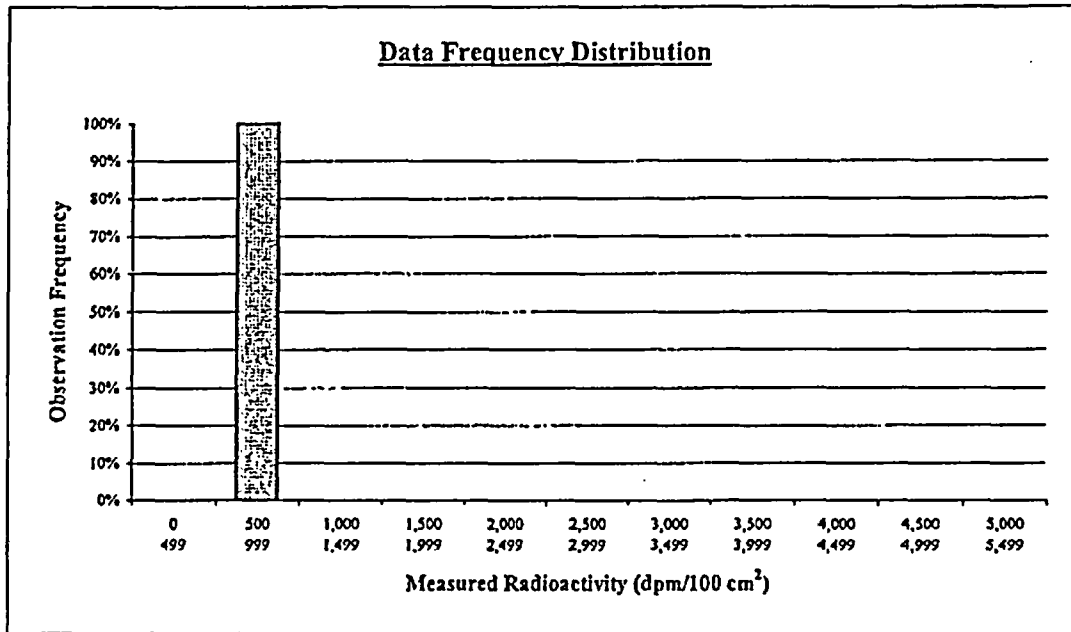
FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05051A
 Survey Unit Name: AB 45' Elevation -
 Treated Waste Monitor Tank Room Ceiling

Classification: Class 2
 Size (m²): 93

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | | Statistical Quantities | |
|--|------------------|---------------------|-------------|------------------------|-------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? | Range: | 391 |
| Range | 391 | 435 | Pass | Median: | 880 |
| Median | 0.103 | 0.500 | Pass | Mean: | 871 |
| Mean | 871 | 6,000 | Pass | Std Dev: | 87 |
| Std Dev | 87 | 1,500 | Pass | Minimum: | 606 |
| All data less than DCGL; Sign statistical test not required. | | | | Maximum: | 997 |
| | | | | DCGL: | 7,500 |



| Plot Parameters | | Number of Observations | | | | Observation Frequency |
|---------------------|----------|------------------------|--------------|-----------------------|--|-----------------------|
| Interval | High End | Low End | Observations | Observation Frequency | | |
| # of measurements: | 31 | | | | | |
| # of intervals: | 11 | | | | | |
| Interval increment: | 500 | | | | | |
| Minimum: | 0 | | | | | |
| Maximum: | 5,499 | | | | | |
| 1 | 499 | 0 | 0 | 0% | | |
| 2 | 999 | 500 | 31 | 100% | | |
| 3 | 1,499 | 1,000 | 0 | 0% | | |
| 4 | 1,999 | 1,500 | 0 | 0% | | |
| 5 | 2,499 | 2,000 | 0 | 0% | | |
| 6 | 2,999 | 2,500 | 0 | 0% | | |
| 7 | 3,499 | 3,000 | 0 | 0% | | |
| 8 | 3,999 | 3,500 | 0 | 0% | | |
| 9 | 4,499 | 4,000 | 0 | 0% | | |
| 10 | 4,999 | 4,500 | 0 | 0% | | |
| 11 | 5,499 | 5,000 | 0 | 0% | | |
| Total: | | | 31 | 100% | | |

Comment:
None.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05051A

Classification: Class 2

Survey Unit Name: AB 45' Elevation –

Size (m²): 93

Treated Waste Monitor Tank Room Ceiling

Judgmental and Miscellaneous Data

Measurement Type: Surface Scanning Beta

Scan Coverage (%): 20

Measurement Units: dpm/100cm²

Investigation Level: 7,500

Minimum Value: 992

Maximum Value: 5,973

Measurement Type: Removable Beta

Number of Measurements: 31

Measurement Units: dpm/100cm²

Investigation Level: 750

Minimum Value: 42

Maximum Value: 82

Discussion of Anomalous Measurement Data

Investigation Summary

No investigation required for this survey unit. No anomalous measurement data.

FINAL SURVEY RESULTS SUMMARY

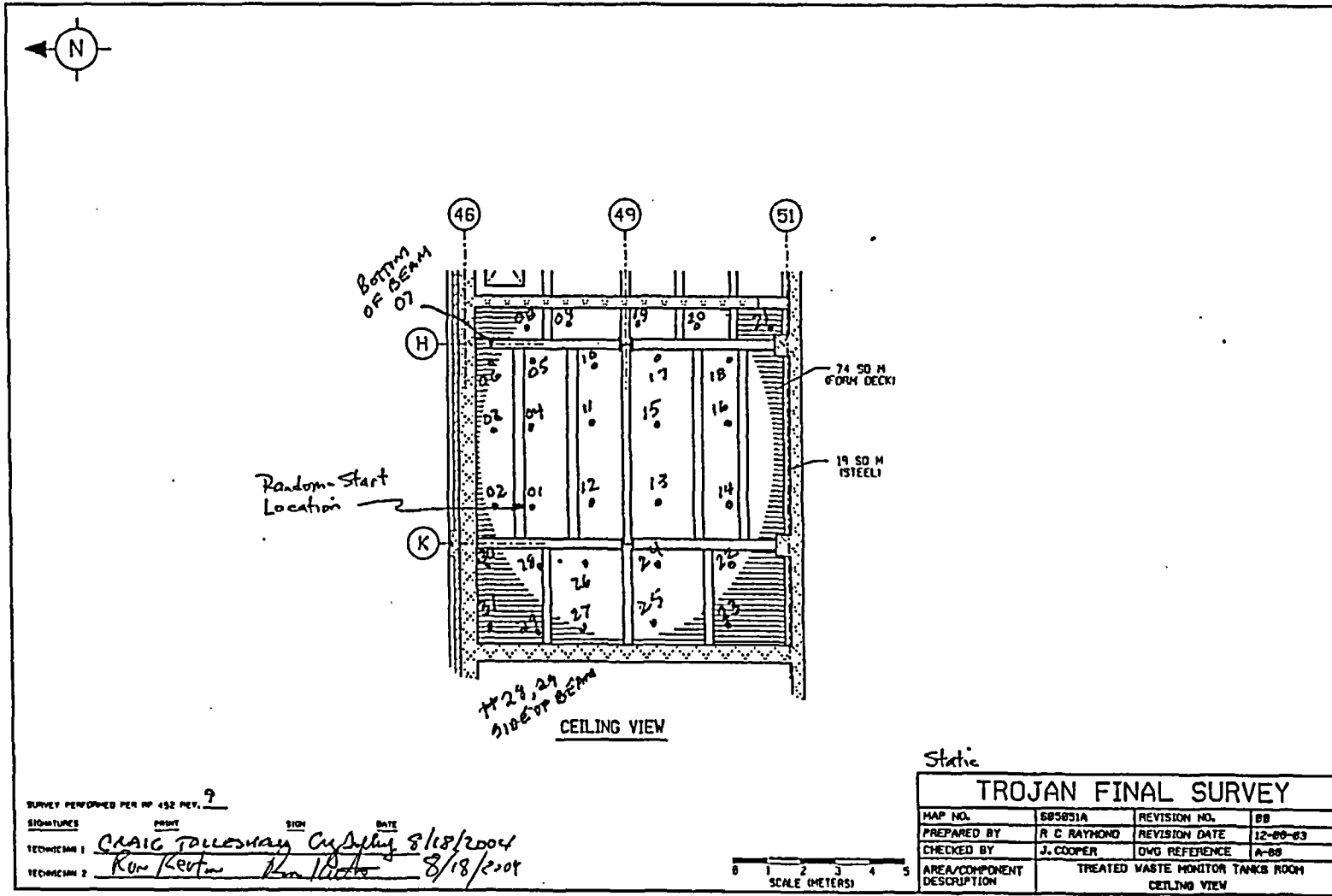
Survey Unit ID Code: S05051A

Survey Unit Name: AB 45' Elevation -- Treated Waste Monitor Tank Room Ceiling

Classification: Class 2

Size (m²): 93

Static Measurement Location Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05051B Classification: Class 2
 Survey Unit Name: AB 45' Elevation - Size (m²): 353
 Service Water Booster/CCW Pumps Area Upper Walls and Ceiling

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|-----------------------|------------|-------------------------|------------|-----|-----|
| 1 | 33 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 4.574e+002
 Maximum Value : 1.364e+003
 Range : 9.066e+002
 Median : 8.406e+002
 Std. Deviation : 2.284e+002
 Mean : 9.125e+002
 95% UCL : 9.798e+002

Measurement Values

| Location | Value | Location | Value |
|----------|------------|----------|------------|
| 000001 | 1.298e+003 | 000018 | 8.640e+002 |
| 000002 | 1.251e+003 | 000019 | 6.842e+002 |
| 000003 | 1.157e+003 | 000020 | 6.842e+002 |
| 000004 | 1.216e+003 | 000021 | 6.881e+002 |
| 000005 | 1.364e+003 | 000022 | 7.976e+002 |
| 000006 | 1.196e+003 | 000023 | 7.858e+002 |
| 000007 | 1.212e+003 | 000024 | 8.132e+002 |
| 000008 | 1.005e+003 | 000025 | 7.467e+002 |
| 000009 | 7.115e+002 | 000026 | 8.406e+002 |
| 000010 | 1.118e+003 | 000027 | 7.702e+002 |
| 000011 | 9.930e+002 | 000028 | 7.506e+002 |
| 000012 | 1.001e+003 | 000029 | 9.070e+002 |
| 000013 | 1.091e+003 | 000030 | 7.115e+002 |
| 000014 | 1.169e+003 | 000031 | 6.177e+002 |
| 000015 | 8.327e+002 | 000032 | 4.574e+002 |
| 000016 | 6.959e+002 | 000033 | 8.875e+002 |
| 000017 | 7.937e+002 | | |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05051B

Classification: Class 2

Survey Unit Name: AB 45' Elevation -

Size (m²): 353

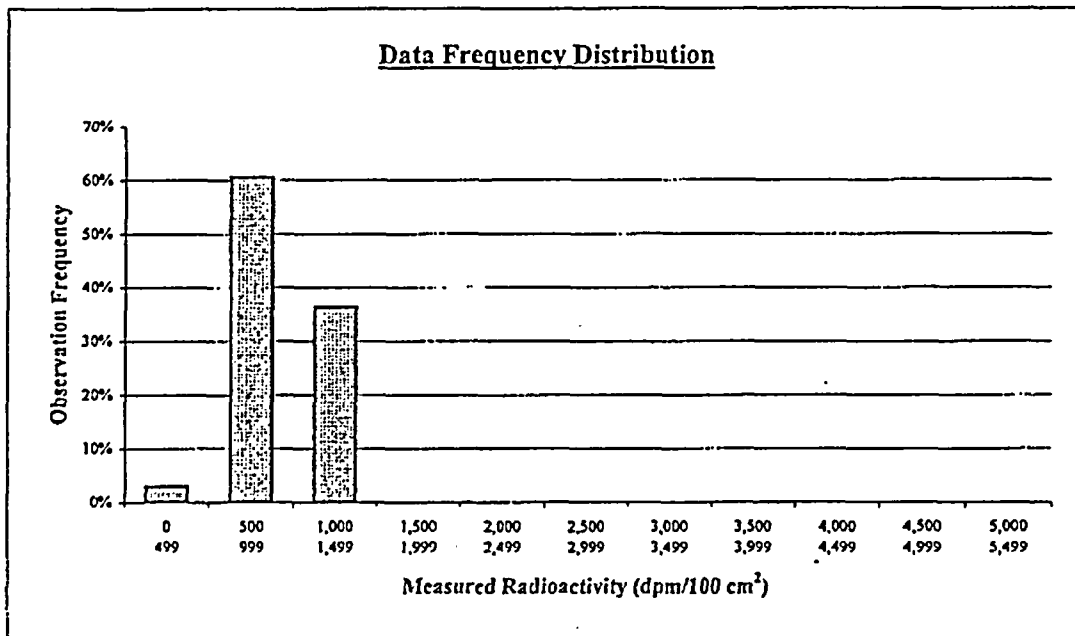
Service Water Booster/CCW Pumps Area Upper Walls and Ceiling

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | |
|-------------------------|------------------|---------------------|-------------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? |
| Range | 907 | 1,142 | Pass |
| Median | 0.313 | 0.500 | Pass |
| Mean | 913 | 6,000 | Pass |
| Std Dev | 228 | 1,500 | Pass |

| Statistical Quantities | |
|------------------------|-------|
| Range: | 907 |
| Median: | 841 |
| Mean: | 913 |
| Std Dev: | 228 |
| Minimum: | 457 |
| Maximum: | 1,364 |
| DCGL: | 7,500 |

All data less than DCGL; Sign statistical test not required.



| Plot Parameters | |
|---------------------|-------|
| # of measurements: | 33 |
| # of intervals: | 11 |
| Interval increment: | 500 |
| Minimum: | 0 |
| Maximum: | 5,499 |

| Interval | High End | Low End | Number of Observations | Observation Frequency |
|----------|----------|---------|------------------------|-----------------------|
| 1 | 499 | 0 | 1 | 3% |
| 2 | 999 | 500 | 20 | 61% |
| 3 | 1,499 | 1,000 | 12 | 36% |
| 4 | 1,999 | 1,500 | 0 | 0% |
| 5 | 2,499 | 2,000 | 0 | 0% |
| 6 | 2,999 | 2,500 | 0 | 0% |
| 7 | 3,499 | 3,000 | 0 | 0% |
| 8 | 3,999 | 3,500 | 0 | 0% |
| 9 | 4,499 | 4,000 | 0 | 0% |
| 10 | 4,999 | 4,500 | 0 | 0% |
| 11 | 5,499 | 5,000 | 0 | 0% |
| Total: | | | 33 | 100% |

Comment:

None.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05051B **Classification:** Class 2
Survey Unit Name: AB 45' Elevation – **Size (m²):** 353
Service Water Booster/CCW Pumps Area Upper Walls and Ceiling

Judgmental and Miscellaneous Data

| | |
|--|-----------------------------------|
| Measurement Type: Surface Scanning Beta | Scan Coverage (%): 25 |
| Measurement Units: dpm/100cm ² | Investigation Level: 7,500 |
| Minimum Value: 634 | Maximum Value: 5,740 |
| Measurement Type: Removable Beta | Number of Measurements: 33 |
| Measurement Units: dpm/100cm ² | Investigation Level: 750 |
| Minimum Value: 51 | Maximum Value: 80 |

Discussion of Anomalous Measurement Data

Investigation Summary

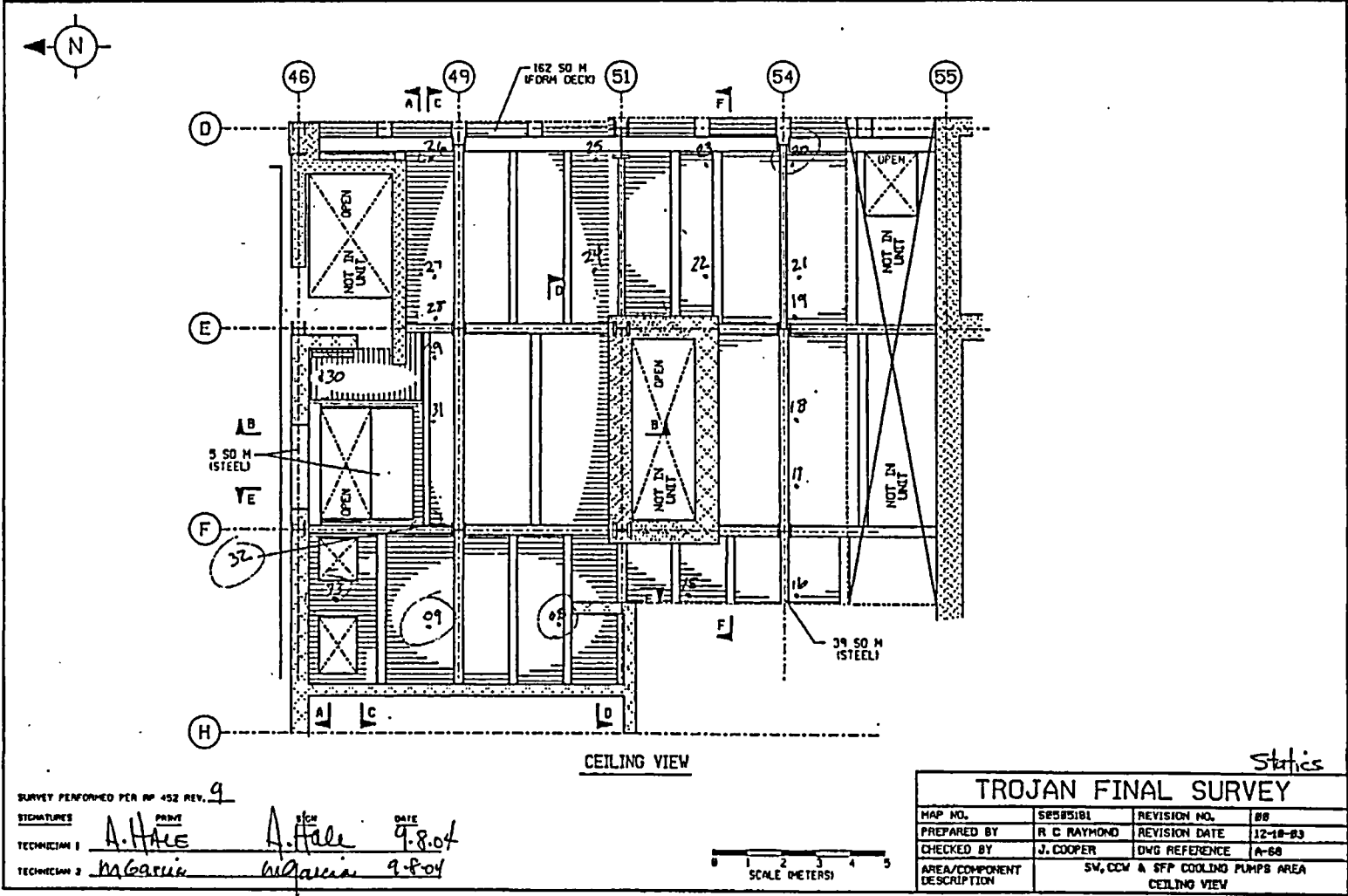
No investigation required for this survey unit. No anomalous measurement data.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05051B
 Survey Unit Name: AB 45' Elevation - Service Water Booster/CCW Pumps
 Area Upper Walls and Ceiling

Classification: Class 2
 Size (m²): 353

Static Measurement Location Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05051B

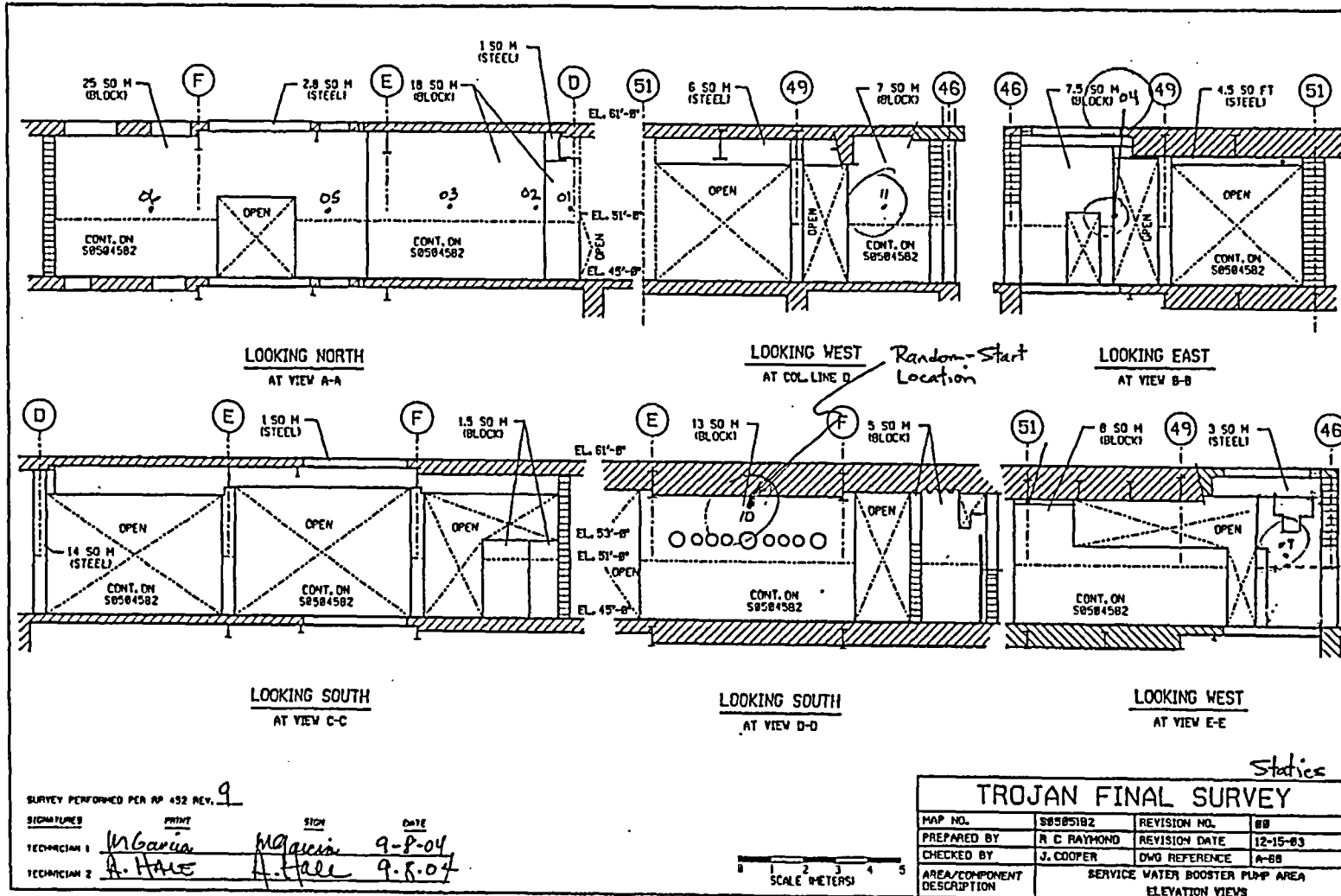
Survey Unit Name: AB 45' Elevation - Service Water Booster/CCW Pumps

Area Upper Walls and Ceiling

Classification: Class 2

Size (m²): 353

Static Measurement Location Map



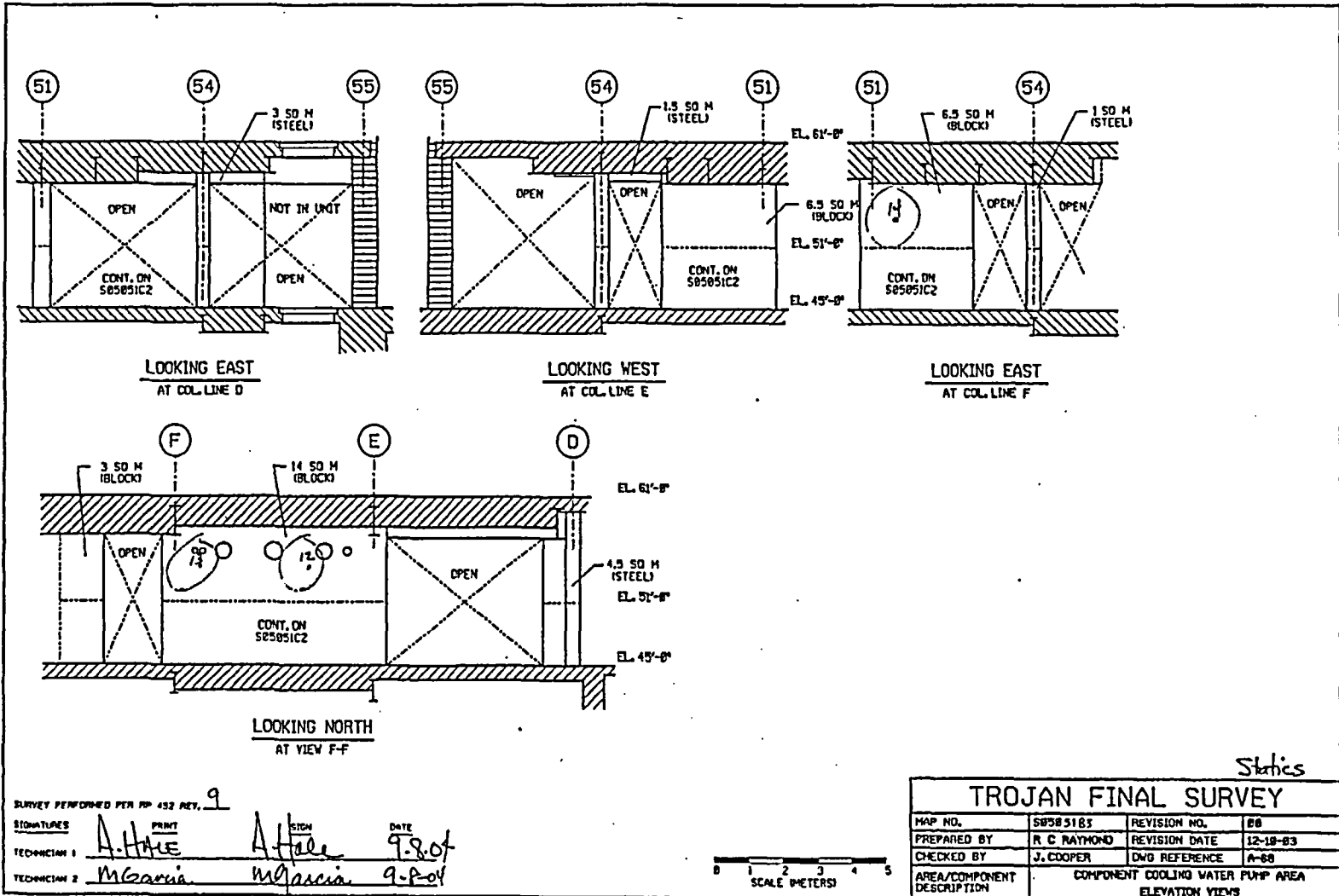
FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05051B

Survey Unit Name: AB 45' Elevation - Service Water Booster/CCW Pumps
Area Upper Walls and Ceiling

Classification: Class 2
Size (m²): 353

Static Measurement Location Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05051D
 Survey Unit Name: AB 45' Elevation -
 Central Corridor Upper Walls and Ceiling

Classification: Class 2
 Size (m²): 145

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|-----------------------|------------|-------------------------|------------|-----|-----|
| 1 | 33 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 5.082e+002
 Maximum Value : 1.509e+003
 Range : 1.001e+003
 Median : 1.044e+003
 Std. Deviation : 2.905e+002
 Mean : 9.486e+002
 95% UCL : 1.034e+003

Measurement Values

| Location | Value | Location | Value |
|----------|------------|----------|------------|
| 000001 | 1.138e+003 | 000018 | 5.552e+002 |
| 000002 | 1.185e+003 | 000019 | 5.513e+002 |
| 000003 | 1.243e+003 | 000020 | 5.395e+002 |
| 000004 | 1.247e+003 | 000021 | 5.747e+002 |
| 000005 | 1.149e+003 | 000022 | 7.624e+002 |
| 000006 | 1.169e+003 | 000023 | 8.758e+002 |
| 000007 | 1.509e+003 | 000024 | 6.959e+002 |
| 000008 | 1.212e+003 | 000025 | 1.243e+003 |
| 000009 | 1.243e+003 | 000026 | 5.082e+002 |
| 000010 | 1.314e+003 | 000027 | 8.171e+002 |
| 000011 | 1.044e+003 | 000028 | 8.836e+002 |
| 000012 | 1.095e+003 | 000029 | 5.904e+002 |
| 000013 | 1.181e+003 | 000030 | 6.685e+002 |
| 000014 | 1.122e+003 | 000031 | 7.194e+002 |
| 000015 | 1.122e+003 | 000032 | 8.953e+002 |
| 000016 | 1.228e+003 | 000033 | 6.529e+002 |
| 000017 | 5.708e+002 | | |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05051D

Classification: Class 2

Survey Unit Name: AB 45' Elevation -

Size (m²): 145

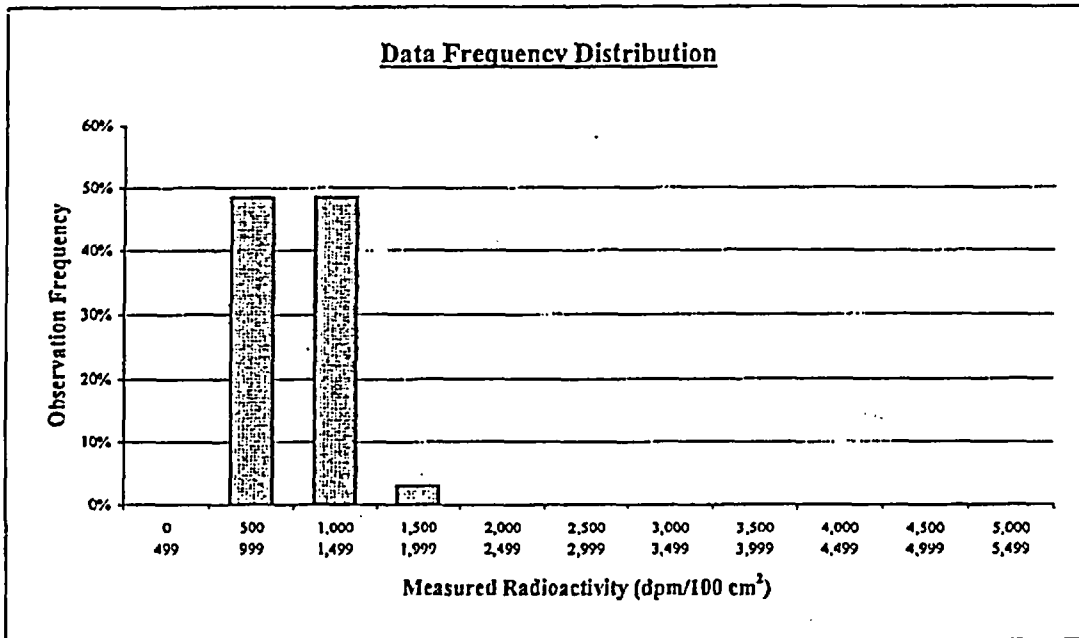
Central Corridor Upper Walls and Ceiling

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | |
|-------------------------|------------------|---------------------|-------------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? |
| Range | 1,001 | 1,453 | Pass |
| Median | 0.328 | 0.500 | Pass |
| Mean | 949 | 6,000 | Pass |
| Std Dev | 291 | 1,500 | Pass |

| Statistical Quantities | |
|------------------------|-------|
| Range: | 1,001 |
| Median: | 1,044 |
| Mean: | 949 |
| Std Dev: | 291 |
| Minimum: | 508 |
| Maximum: | 1,509 |
| DCGL: | 7,500 |

All data less than DCGL; Sign statistical test not required.



| Plot Parameters | |
|---------------------|-------|
| # of measurements: | 33 |
| # of intervals: | 11 |
| Interval increment: | 500 |
| Minimum: | 0 |
| Maximum: | 5,499 |

| Interval | High End | Low End | Number of Observations | Observation Frequency |
|----------|----------|---------|------------------------|-----------------------|
| 1 | 499 | 0 | 0 | 0% |
| 2 | 999 | 500 | 16 | 48% |
| 3 | 1,499 | 1,000 | 16 | 48% |
| 4 | 1,999 | 1,500 | 1 | 3% |
| 5 | 2,499 | 2,000 | 0 | 0% |
| 6 | 2,999 | 2,500 | 0 | 0% |
| 7 | 3,499 | 3,000 | 0 | 0% |
| 8 | 3,999 | 3,500 | 0 | 0% |
| 9 | 4,499 | 4,000 | 0 | 0% |
| 10 | 4,999 | 4,500 | 0 | 0% |
| 11 | 5,499 | 5,000 | 0 | 0% |
| Total: | | | 33 | 100% |

Comment:

None.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05051D

Classification: Class 2

Survey Unit Name: AB 45' Elevation –

Size (m²): 145

Central Corridor Upper Walls and Ceiling

Judgmental and Miscellaneous Data

Measurement Type: Surface Scanning Beta

Scan Coverage (%): 25

Measurement Units: dpm/100cm²

Investigation Level: 7,500

Minimum Value: 952

Maximum Value: 4,669

Measurement Type: Removable Beta

Number of Measurements: 33

Measurement Units: dpm/100cm²

Investigation Level: 750

Minimum Value: 43

Maximum Value: 82

Discussion of Anomalous Measurement Data

Investigation Summary

No investigation required for this survey unit. No anomalous measurement data.

FINAL SURVEY RESULTS SUMMARY

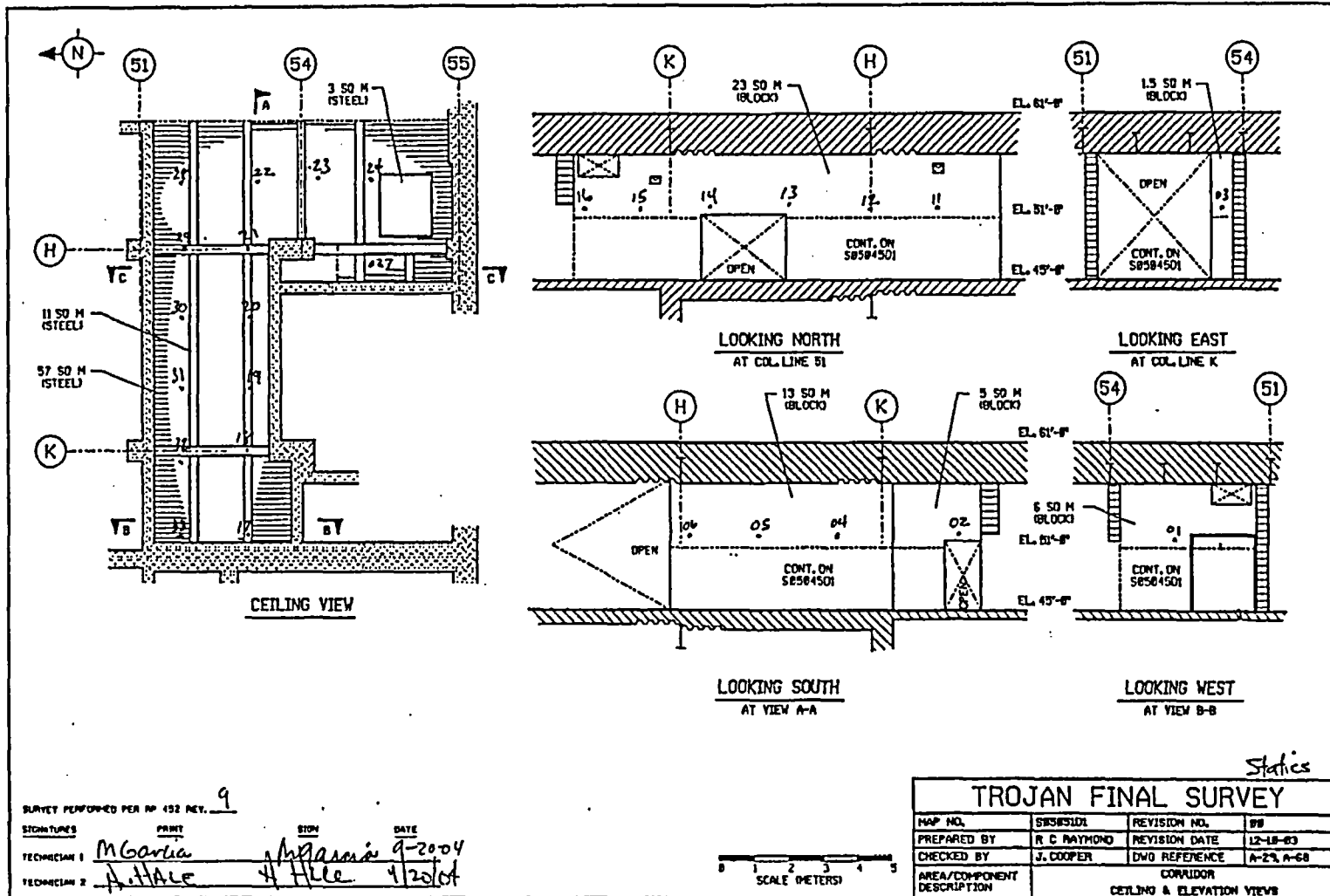
Survey Unit ID Code: S05051D

Survey Unit Name: AB 45' Elevation – Central Corridor Upper Walls and Ceiling

Classification: Class 2

Size (m²): 145

Static Measurement Location Map



FINAL SURVEY RESULTS SUMMARY

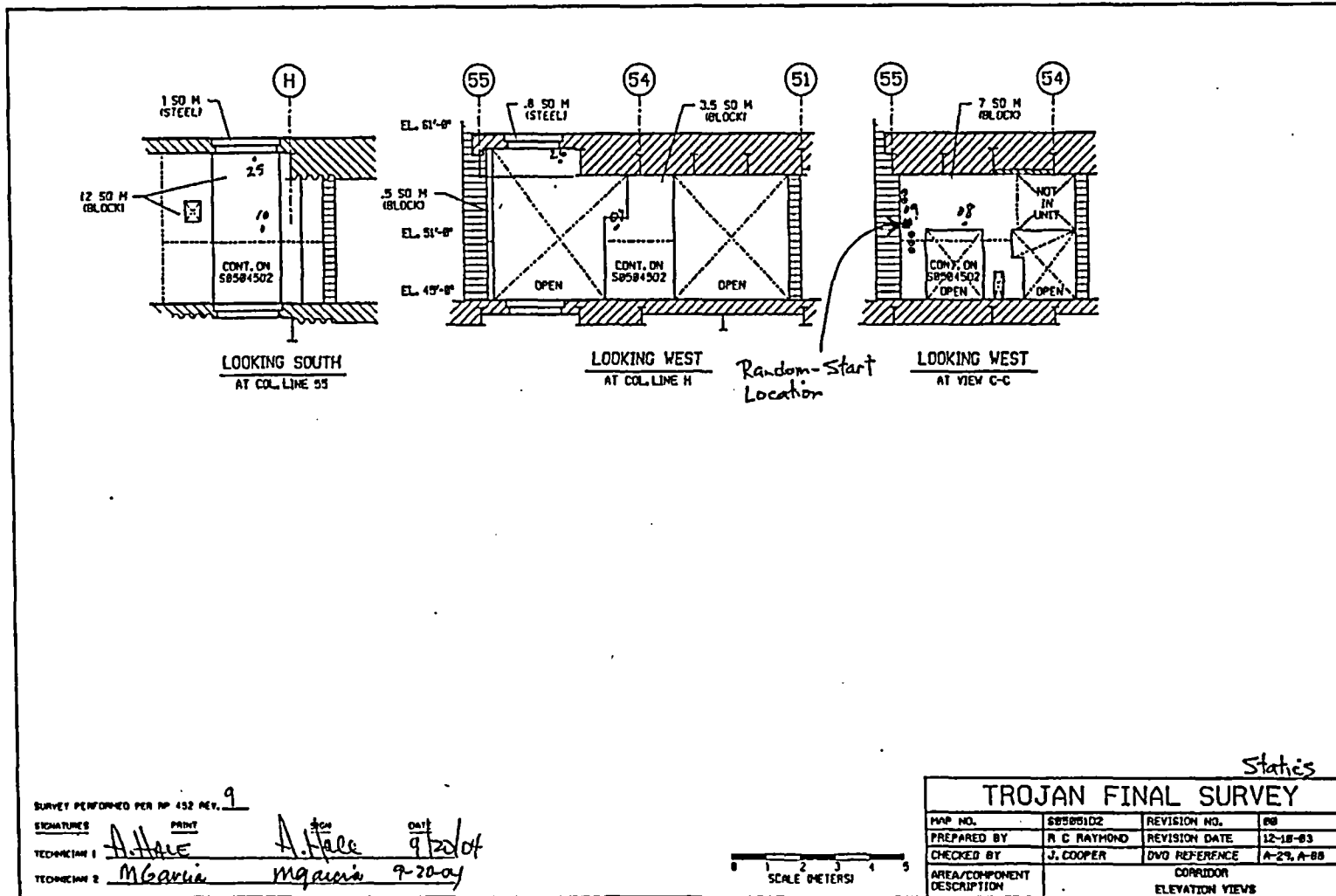
Survey Unit ID Code: S05051D

Survey Unit Name: AB 45' Elevation - Central Corridor Upper Walls and Ceiling

Classification: Class 2

Size (m²): 145

Static Measurement Location Map



SURVEY PERFORMED PER RP 452 REV. 9

| | | |
|----------------|----------|---------|
| SIGNATURES | PRINT | DATE |
| <i>A. Hale</i> | A. Hale | 9/20/04 |
| TECHNICIAN 1 | | |
| TECHNICIAN 2 | M Garcia | 9-20-04 |

Statics

| TROJAN FINAL SURVEY | | | |
|----------------------------|--------------------------|---------------|------------|
| MAP NO. | S05051D2 | REVISION NO. | 00 |
| PREPARED BY | R C RAYMOND | REVISION DATE | 12-18-03 |
| CHECKED BY | J. COOPER | DWG REFERENCE | A-29, A-88 |
| AREA/COMPONENT DESCRIPTION | CORRIDOR ELEVATION VIEWS | | |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05051E
 Survey Unit Name: AB 45' Elevation -
 DWM Tank and Pump Room Ceiling

Classification: Class 2
 Size (m²): 38

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|-----------------------|------------|-------------------------|------------|-----|-----|
| 1 | 38 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 4.024e+002
 Maximum Value : 9.228e+002
 Range : 5.204e+002
 Median : 7.180e+002
 Std. Deviation : 1.381e+002
 Mean : 6.868e+002
 95% UCL : 7.246e+002

Measurement Values

| Location | Value | Location | Value | Location | Value |
|----------|------------|----------|------------|----------|------------|
| 000001 | 8.379e+002 | 000018 | 7.272e+002 | 000035 | 6.903e+002 |
| 000002 | 7.826e+002 | 000019 | 7.530e+002 | 000036 | 7.937e+002 |
| 000003 | 7.346e+002 | 000020 | 8.379e+002 | 000037 | 7.014e+002 |
| 000004 | 6.829e+002 | 000021 | 4.873e+002 | 000038 | 4.171e+002 |
| 000005 | 7.937e+002 | 000022 | 6.645e+002 | | |
| 000006 | 7.420e+002 | 000023 | 7.641e+002 | | |
| 000007 | 8.269e+002 | 000024 | 7.604e+002 | | |
| 000008 | 7.051e+002 | 000025 | 7.087e+002 | | |
| 000009 | 6.977e+002 | 000026 | 8.859e+002 | | |
| 000010 | 9.228e+002 | 000027 | 4.910e+002 | | |
| 000011 | 8.195e+002 | 000028 | 4.171e+002 | | |
| 000012 | 7.494e+002 | 000029 | 5.869e+002 | | |
| 000013 | 8.084e+002 | 000030 | 5.316e+002 | | |
| 000014 | 6.571e+002 | 000031 | 4.024e+002 | | |
| 000015 | 7.309e+002 | 000032 | 6.755e+002 | | |
| 000016 | 6.054e+002 | 000033 | 4.725e+002 | | |
| 000017 | 7.715e+002 | 000034 | 4.614e+002 | | |

FINAL SURVEY RESULTS SUMMARY

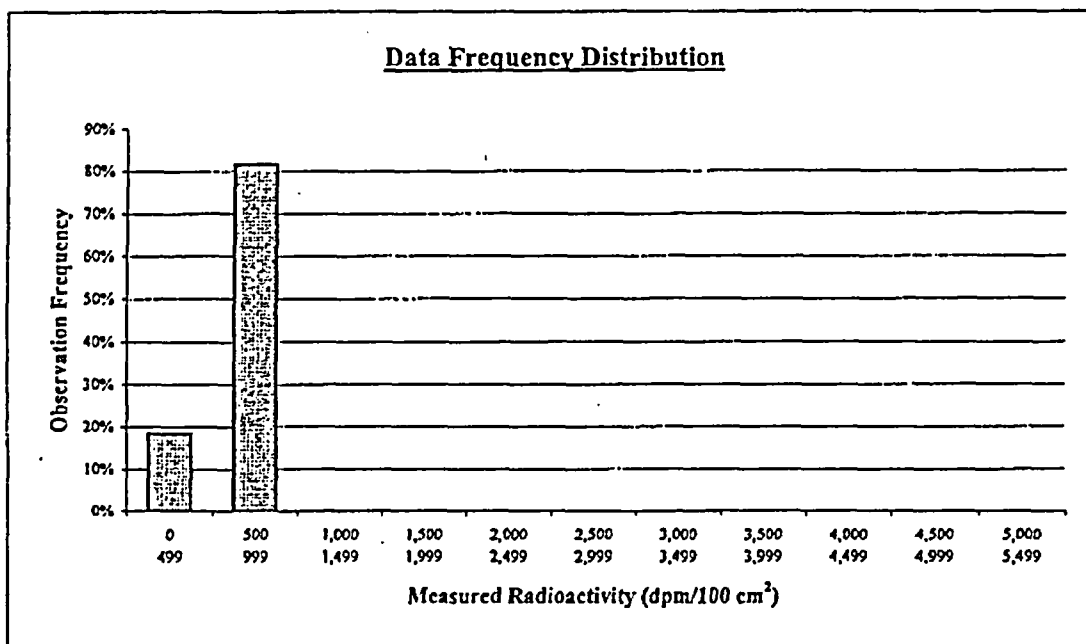
Survey Unit ID Code: S05051E
 Survey Unit Name: AB 45' Elevation -
 DWM Tank and Pump Room Ceiling

Classification: Class 2
 Size (m²): 38

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | | Statistical Quantities | |
|-------------------------|------------------|---------------------|-------------|------------------------|-------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? | Range: | 521 |
| Range | 521 | 694 | Pass | Median: | 718 |
| Median | 0.216 | 0.500 | Pass | Mean: | 688 |
| Mean | 688 | 6,000 | Pass | Std Dev: | 139 |
| Std Dev | 139 | 1,500 | Pass | Minimum: | 402 |
| | | | | Maximum: | 923 |
| | | | | DCGL: | 7,500 |

All data less than DCGL; Sign statistical test not required.



| Plot Parameters | Interval | High End | Low End | Number of Observations | Observation Frequency |
|-------------------------|----------|----------|---------|------------------------|-----------------------|
| # of measurements: 38 | 1 | 499 | 0 | 7 | 18% |
| # of intervals: 11 | 2 | 999 | 500 | 31 | 82% |
| Interval increment: 500 | 3 | 1,499 | 1,000 | 0 | 0% |
| Minimum: 0 | 4 | 1,999 | 1,500 | 0 | 0% |
| Maximum: 5,499 | 5 | 2,499 | 2,000 | 0 | 0% |
| | 6 | 2,999 | 2,500 | 0 | 0% |
| | 7 | 3,499 | 3,000 | 0 | 0% |
| | 8 | 3,999 | 3,500 | 0 | 0% |
| | 9 | 4,499 | 4,000 | 0 | 0% |
| | 10 | 4,999 | 4,500 | 0 | 0% |
| | 11 | 5,499 | 5,000 | 0 | 0% |
| | Total: | | | 38 | 100% |

Comment:
None.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05051E

Classification: Class 2

Survey Unit Name: AB 45' Elevation –

Size (m²): 38

DWM Tank and Pump Room Ceiling

Judgmental and Miscellaneous Data

Measurement Type: Surface Scanning Beta

Scan Coverage (%): 20

Measurement Units: dpm/100cm²

Investigation Level: 7,500

Minimum Value: 570

Maximum Value: 1,130

Measurement Type: Removable Beta

Number of Measurements: 38

Measurement Units: dpm/100cm²

Investigation Level: 750

Minimum Value: 46

Maximum Value: 104

Discussion of Anomalous Measurement Data

Investigation Summary

No investigation required for this survey unit. No anomalous measurement data.

FINAL SURVEY RESULTS SUMMARY

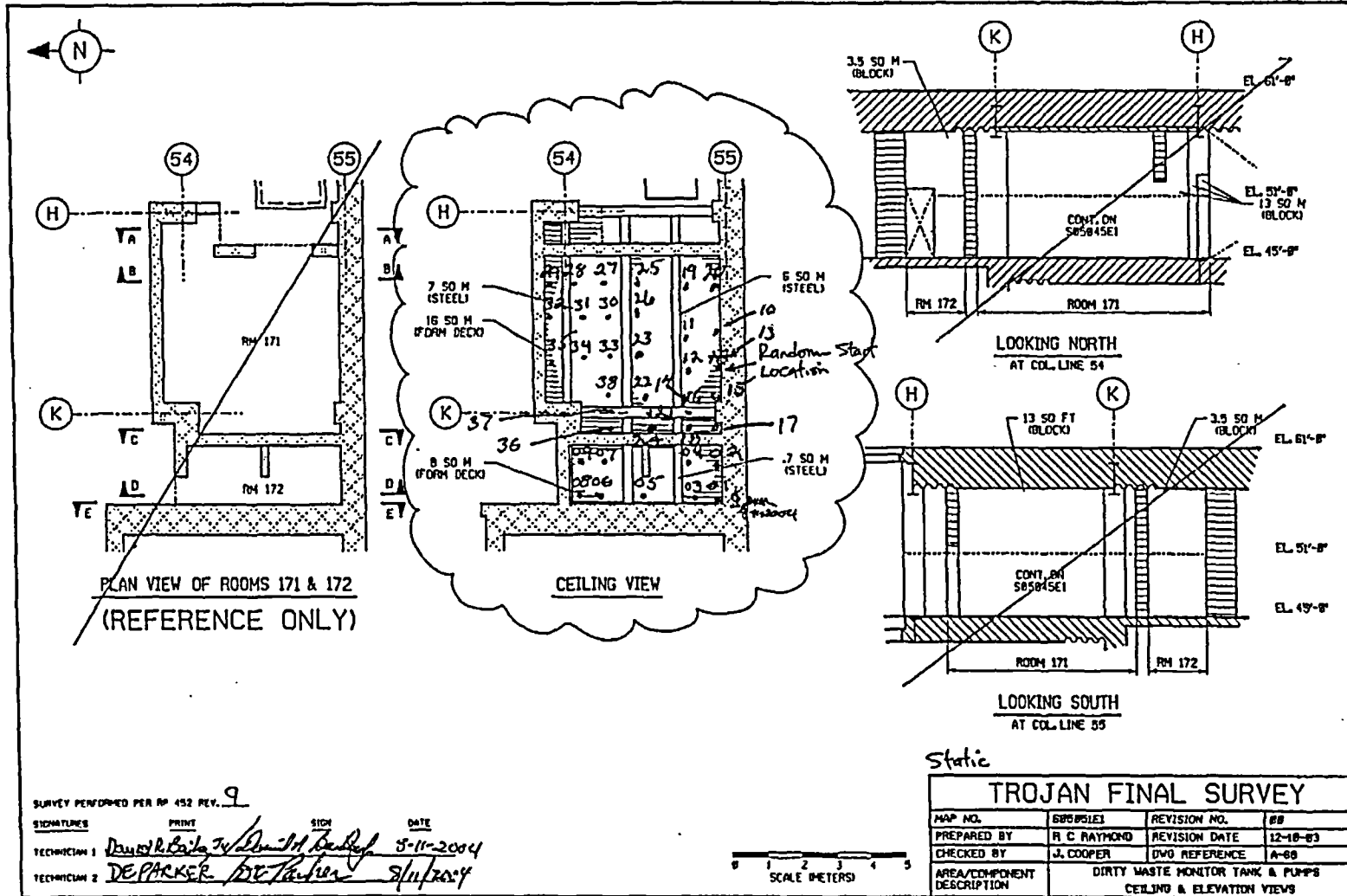
Survey Unit ID Code: S05051E

Survey Unit Name: AB 45' Elevation - DWM Tank and Pump Room Ceiling

Classification: Class 2

Size (m²): 38

Static Measurement Location Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05051F
 Survey Unit Name: AB 45' Elevation -
 Radiological Sample Room Ceiling

Classification: Class 2
 Size (m²): 32

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|-----------------------|------------|-------------------------|------------|-----|-----|
| 1 | 30 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 6.504e+002
 Maximum Value : 9.834e+002
 Range : 3.330e+002
 Median : 7.840e+002
 Std. Deviation : 8.631e+001
 Mean : 7.866e+002
 95% UCL : 8.133e+002

Measurement Values

| Location | Value | Location | Value |
|----------|------------|----------|------------|
| 000001 | 7.898e+002 | 000018 | 8.362e+002 |
| 000002 | 6.504e+002 | 000019 | 8.401e+002 |
| 000003 | 8.672e+002 | 000020 | 6.969e+002 |
| 000004 | 7.782e+002 | 000021 | 9.834e+002 |
| 000005 | 6.814e+002 | 000022 | 9.446e+002 |
| 000006 | 7.743e+002 | 000023 | 6.775e+002 |
| 000007 | 7.007e+002 | 000024 | 7.782e+002 |
| 000008 | 7.743e+002 | 000025 | 8.324e+002 |
| 000009 | 8.827e+002 | 000026 | 8.827e+002 |
| 000010 | 7.472e+002 | 000027 | 7.395e+002 |
| 000011 | 6.504e+002 | 000028 | 8.517e+002 |
| 000012 | 6.504e+002 | 000029 | 8.672e+002 |
| 000013 | 8.246e+002 | 000030 | 7.356e+002 |
| 000014 | 8.208e+002 | | |
| 000015 | 7.975e+002 | | |
| 000016 | 7.201e+002 | | |
| 000017 | 8.208e+002 | | |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05051F
 Survey Unit Name: AB 45' Elevation -
 Radiological Sample Room Ceiling

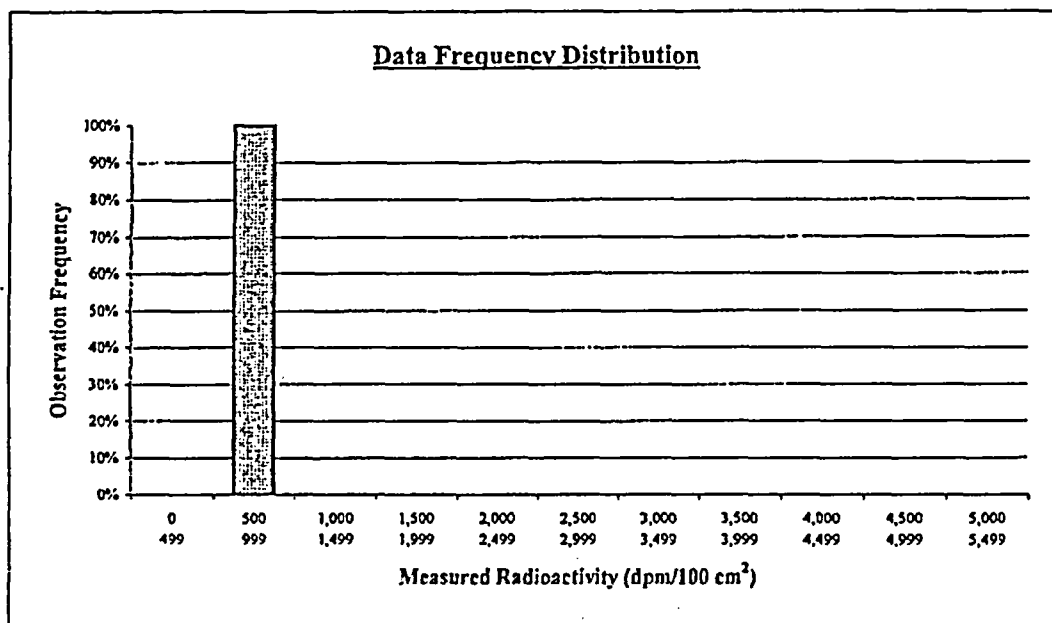
Classification: Class 2
 Size (m²): 32

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | |
|-------------------------|------------------|---------------------|-------------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? |
| Range | 333 | 432 | Pass |
| Median | 0.030 | 0.500 | Pass |
| Mean | 787 | 6,000 | Pass |
| Std Dev | 86 | 1,500 | Pass |

| Statistical Quantities | |
|------------------------|-------|
| Range: | 333 |
| Median: | 784 |
| Mean: | 787 |
| Std Dev: | 86 |
| Minimum: | 650 |
| Maximum: | 983 |
| DCGL: | 7,500 |

All data less than DCGL; Sign statistical test not required.



| Plot Parameters | |
|---------------------|-------|
| # of measurements: | 30 |
| # of intervals: | 11 |
| Interval increment: | 500 |
| Minimum: | 0 |
| Maximum: | 5,499 |

Comment:
None.

| Interval | High End | Low End | Number of Observations | Observation Frequency |
|----------|----------|---------|------------------------|-----------------------|
| 1 | 499 | 0 | 0 | 0% |
| 2 | 999 | 500 | 30 | 100% |
| 3 | 1,499 | 1,000 | 0 | 0% |
| 4 | 1,999 | 1,500 | 0 | 0% |
| 5 | 2,499 | 2,000 | 0 | 0% |
| 6 | 2,999 | 2,500 | 0 | 0% |
| 7 | 3,499 | 3,000 | 0 | 0% |
| 8 | 3,999 | 3,500 | 0 | 0% |
| 9 | 4,499 | 4,000 | 0 | 0% |
| 10 | 4,999 | 4,500 | 0 | 0% |
| 11 | 5,499 | 5,000 | 0 | 0% |
| Total: | | | 30 | 100% |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05051F
Survey Unit Name: AB 45' Elevation –
Radiological Sample Room Ceiling

Classification: Class 2
Size (m²): 32

Judgmental and Miscellaneous Data

Measurement Type: Surface Scanning Beta
Measurement Units: dpm/100cm²
Minimum Value: 904

Scan Coverage (%): 20
Investigation Level: 7,500
Maximum Value: 1,119

Measurement Type: Removable Beta
Measurement Units: dpm/100cm²
Minimum Value: 40

Number of Measurements: 30
Investigation Level: 750
Maximum Value: 74

Discussion of Anomalous Measurement Data

Investigation Summary

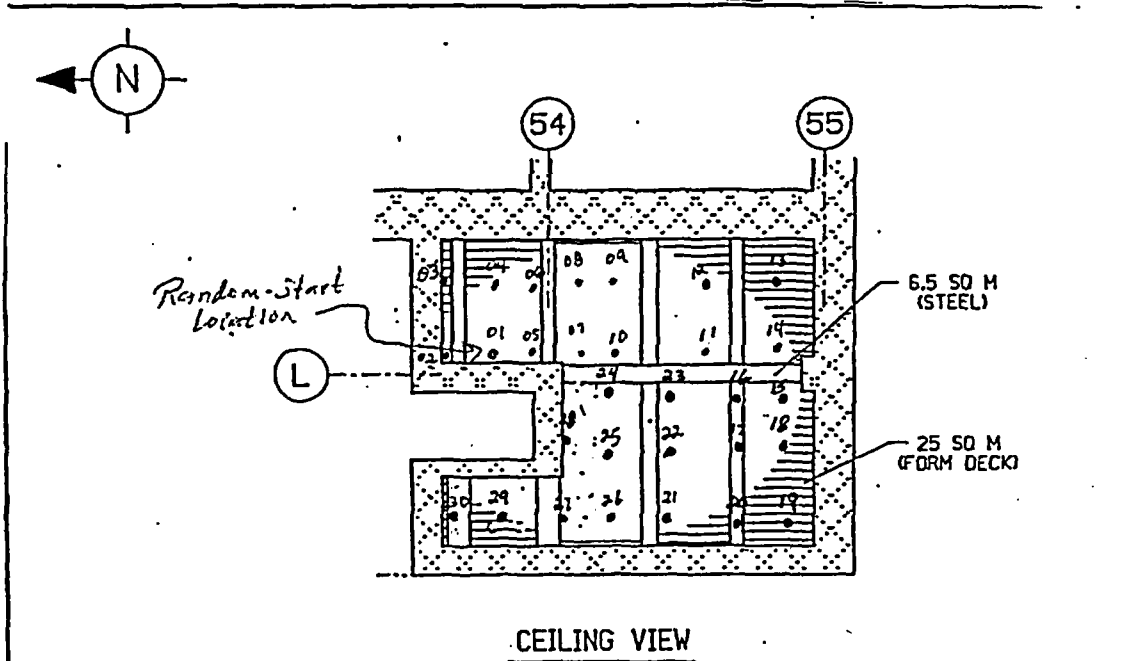
No investigation required for this survey unit. No anomalous measurement data.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05051F
 Survey Unit Name: AB 45' Elevation -
 Radiological Sample Room Ceiling

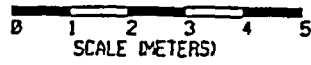
Classification: Class 2
 Size (m²): 32

Static Measurement Location Map



SURVEY PERFORMED PER RP 452 REV. 9

| SIGNATURES | PRINT | SIGN | DATE |
|--------------|--------------|--------------------|---------|
| TECHNICIAN 1 | Bob Waida | <i>[Signature]</i> | 9-17-04 |
| TECHNICIAN 2 | K. Cooper | <i>[Signature]</i> | 9-17-04 |
| | J. Kalloupek | <i>[Signature]</i> | 9-17-04 |



| TROJAN FINAL SURVEY | | | |
|----------------------------|---------------------------------------|---------------|----------|
| MAP NO. | S05051F. | REVISION NO. | 00 |
| PREPARED BY | R C RAYMOND | REVISION DATE | 12-08-03 |
| CHECKED BY | J. COOPER | DWG REFERENCE | A-29 |
| AREA/COMPONENT DESCRIPTION | RADIATION SAMPLE ROOM CEILING VIEW | | |

FILE NAME: S05051F

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05051G
 Survey Unit Name: AB 45' Elevation -
 Pipe Façade Upper East Wall

Classification: Class 2
 Size (m²): 31

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|-----------------------|------------|-------------------------|------------|-----|-----|
| 1 | 36 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 7.143e+002
 Maximum Value : 1.126e+003
 Range : 4.117e+002
 Median : 8.390e+002
 Std. Deviation : 1.018e+002
 Mean : 8.673e+002
 95% UCL : 8.959e+002

Measurement Values

| Location | Value | Location | Value | Location | Value |
|----------|------------|----------|------------|----------|------------|
| 000001 | 8.730e+002 | 000018 | 8.088e+002 | 000035 | 9.373e+002 |
| 000002 | 8.579e+002 | 000019 | 8.655e+002 | 000036 | 8.957e+002 |
| 000003 | 7.559e+002 | 000020 | 1.070e+003 | | |
| 000004 | 1.119e+003 | 000021 | 9.259e+002 | | |
| 000005 | 8.541e+002 | 000022 | 8.163e+002 | | |
| 000006 | 9.184e+002 | 000023 | 8.428e+002 | | |
| 000007 | 8.088e+002 | 000024 | 7.899e+002 | | |
| 000008 | 8.163e+002 | 000025 | 8.655e+002 | | |
| 000009 | 8.352e+002 | 000026 | 7.974e+002 | | |
| 000010 | 8.012e+002 | 000027 | 8.428e+002 | | |
| 000011 | 8.957e+002 | 000028 | 8.277e+002 | | |
| 000012 | 1.111e+003 | 000029 | 8.088e+002 | | |
| 000013 | 8.277e+002 | 000030 | 8.012e+002 | | |
| 000014 | 8.012e+002 | 000031 | 7.672e+002 | | |
| 000015 | 8.957e+002 | 000032 | 9.713e+002 | | |
| 000016 | 7.407e+002 | 000033 | 1.126e+003 | | |
| 000017 | 8.352e+002 | 000034 | 7.143e+002 | | |

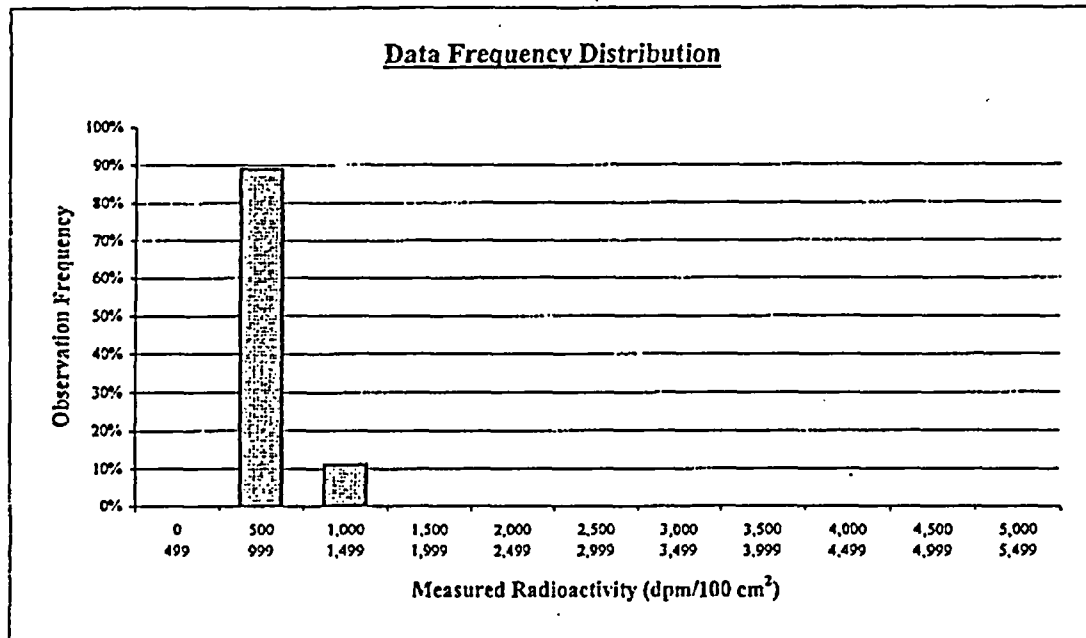
FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05051G
 Survey Unit Name: AB 45' Elevation -
 Pipe Façade Upper East Wall

Classification: Class 2
 Size (m²): 31

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | | Statistical Quantities | |
|--|------------------|---------------------|-------------|------------------------|-------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? | Range: | 412 |
| Range | 412 | 509 | Pass | Median: | 839 |
| Median | 0.278 | 0.500 | Pass | Mean: | 867 |
| Mean | 867 | 6,000 | Pass | Std Dev: | 102 |
| Std Dev | 102 | 1,500 | Pass | Minimum: | 714 |
| All data less than DCGL; Sign statistical test not required. | | | | Maximum: | 1,126 |
| | | | | DCGL: | 7,500 |



| Plot Parameters | | Interval | High End | Low End | Number of Observations | Observation Frequency |
|---------------------|-------|----------|----------|---------|------------------------|-----------------------|
| # of measurements: | 36 | 1 | 499 | 0 | 0 | 0% |
| # of intervals: | 11 | 2 | 999 | 500 | 32 | 89% |
| Interval increment: | 500 | 3 | 1,499 | 1,000 | 4 | 11% |
| Minimum: | 0 | 4 | 1,999 | 1,500 | 0 | 0% |
| Maximum: | 5,499 | 5 | 2,499 | 2,000 | 0 | 0% |
| | | 6 | 2,999 | 2,500 | 0 | 0% |
| | | 7 | 3,499 | 3,000 | 0 | 0% |
| | | 8 | 3,999 | 3,500 | 0 | 0% |
| | | 9 | 4,499 | 4,000 | 0 | 0% |
| | | 10 | 4,999 | 4,500 | 0 | 0% |
| | | 11 | 5,499 | 5,000 | 0 | 0% |
| Total: | | | | | 36 | 100% |

Comment:
None.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05051G
Survey Unit Name: AB 45' Elevation –
Pipe Façade Upper East Wall

Classification: Class 2
Size (m²): 31

Judgmental and Miscellaneous Data

Measurement Type: Surface Scanning Beta
Measurement Units: dpm/100cm²
Minimum Value: 1,001

Scan Coverage (%): 35
Investigation Level: 7,500
Maximum Value: 1,345

Measurement Type: Removable Beta
Measurement Units: dpm/100cm²
Minimum Value: 46

Number of Measurements: 36
Investigation Level: 750
Maximum Value: 86

Discussion of Anomalous Measurement Data

Investigation Summary

No investigation required for this survey unit. No anomalous measurement data.

FINAL SURVEY RESULTS SUMMARY

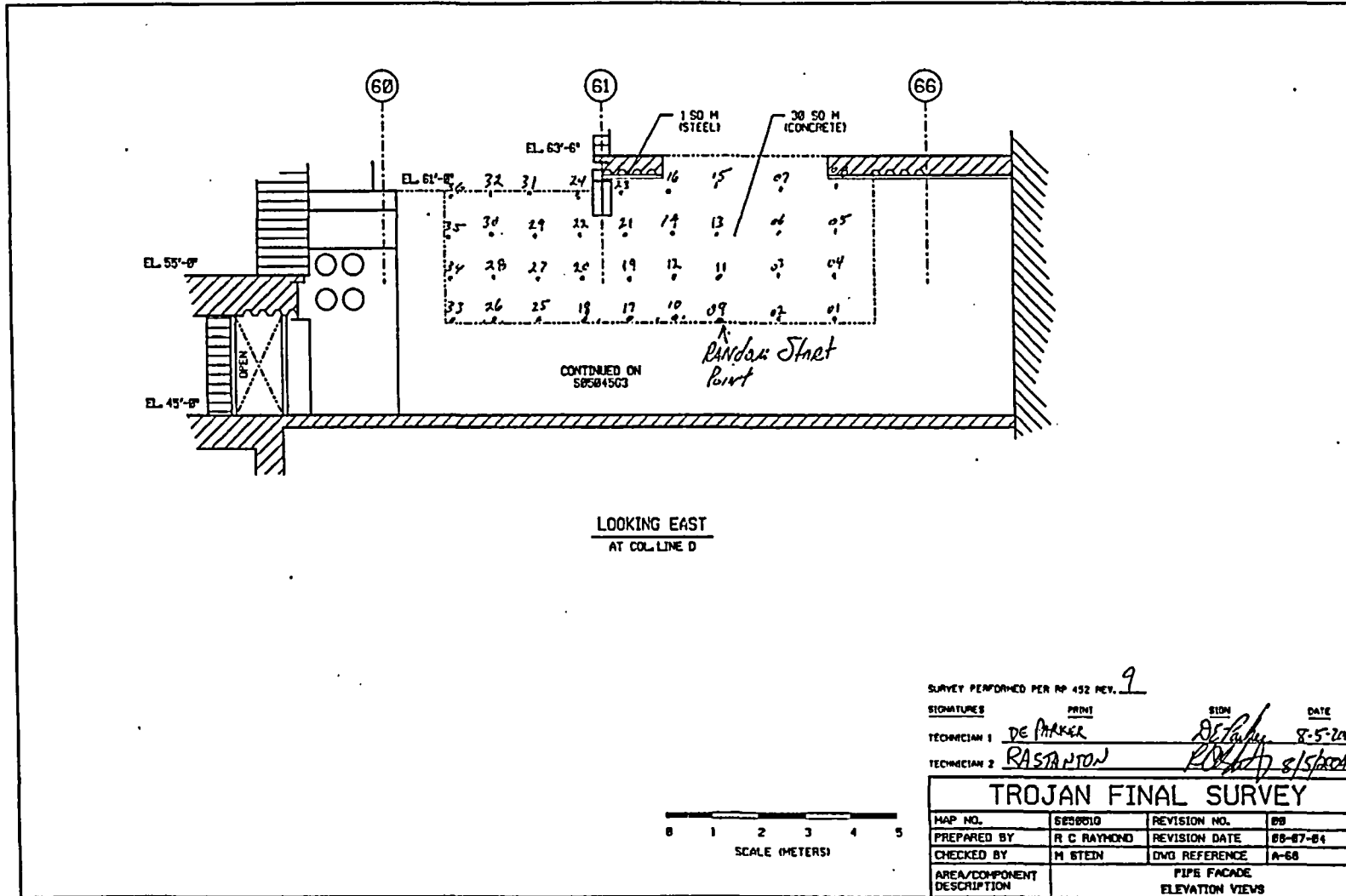
Survey Unit ID Code: S05051G

Survey Unit Name: AB 45' Elevation - Pipe Façade Upper East Wall

Classification: Class 2

Size (m²): 31

Static Measurement Location Map



SURVEY PERFORMED PER RP 452 REV. 9

| | | | |
|--------------|-----------|--------------------|----------|
| SIGNATURES | PRINT | SIGN | DATE |
| TECHNICIAN 1 | DE PARKER | <i>[Signature]</i> | 8-5-2004 |
| TECHNICIAN 2 | RASTANTON | <i>[Signature]</i> | 8/5/2004 |

| TROJAN FINAL SURVEY | | | |
|----------------------------|-----------------------------|---------------|----------|
| MAP NO. | SESBOLO | REVISION NO. | 09 |
| PREPARED BY | R C RAYMOND | REVISION DATE | 08-07-04 |
| CHECKED BY | M STEDN | DWG REFERENCE | A-68 |
| AREA/COMPONENT DESCRIPTION | PIPE FACADE ELEVATION VIEWS | | |

FILE NO. S05051G

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05051H
 Survey Unit Name: AB 45' Elevation -
 Hot Lab Upper Walls and Ceiling

Classification: Class 2
 Size (m²): 132

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|--------------------------|---------------|-------------------------|------------|-----|-----|
| 1 | 30 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 6.373e+002
 Maximum Value : 1.286e+003
 Range : 6.487e+002
 Median : 8.171e+002
 Std. Deviation : 1.848e+002
 Mean : 8.855e+002
 95% UCL : 9.428e+002

Measurement Values

| Location | Value | Location | Value |
|----------|------------|----------|------------|
| 000001 | 8.406e+002 | 000018 | 7.976e+002 |
| 000002 | 7.311e+002 | 000019 | 8.562e+002 |
| 000003 | 8.718e+002 | 000020 | 7.272e+002 |
| 000004 | 1.110e+003 | 000021 | 6.373e+002 |
| 000005 | 1.056e+003 | 000022 | 7.663e+002 |
| 000006 | 8.601e+002 | 000023 | 7.702e+002 |
| 000007 | 7.741e+002 | 000024 | 7.819e+002 |
| 000008 | 1.286e+003 | 000025 | 6.998e+002 |
| 000009 | 7.937e+002 | 000026 | 7.272e+002 |
| 000010 | 6.373e+002 | 000027 | 8.249e+002 |
| 000011 | 1.216e+003 | 000028 | 1.243e+003 |
| 000012 | 9.109e+002 | 000029 | 1.232e+003 |
| 000013 | 9.735e+002 | 000030 | 1.099e+003 |
| 000014 | 8.093e+002 | | |
| 000015 | 9.657e+002 | | |
| 000016 | 7.624e+002 | | |
| 000017 | 8.054e+002 | | |

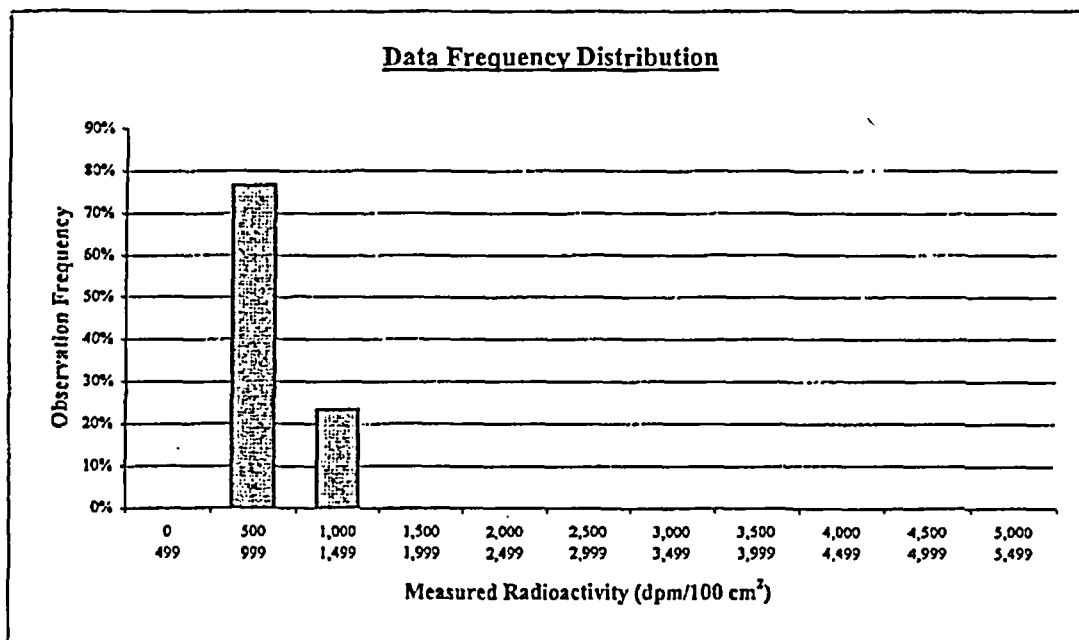
FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05051H
 Survey Unit Name: AB 45' Elevation -
 Hot Lab Upper Walls and Ceiling

Classification: Class 2
 Size (m²): 132

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | | Statistical Quantities | |
|--|------------------|---------------------|-------------|------------------------|-------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? | Range: | 649 |
| Range | 649 | 924 | Pass | Median: | 817 |
| Median | 0.371 | 0.500 | Pass | Mean: | 886 |
| Mean | 886 | 6,000 | Pass | Std Dev: | 185 |
| Std Dev | 185 | 1,500 | Pass | Minimum: | 637 |
| All data less than DCGL; Sign statistical test not required. | | | | Maximum: | 1,286 |
| | | | | DCGL: | 7,500 |



| Plot Parameters | | Interval | High End | Low End | Number of Observations | Observation Frequency |
|---------------------|-------|----------|----------|---------|------------------------|-----------------------|
| # of measurements: | 30 | 1 | 499 | 0 | 0 | 0% |
| # of intervals: | 11 | 2 | 999 | 500 | 23 | 77% |
| Interval increment: | 500 | 3 | 1,499 | 1,000 | 7 | 23% |
| Minimum: | 0 | 4 | 1,999 | 1,500 | 0 | 0% |
| Maximum: | 5,499 | 5 | 2,499 | 2,000 | 0 | 0% |
| | | 6 | 2,999 | 2,500 | 0 | 0% |
| | | 7 | 3,499 | 3,000 | 0 | 0% |
| | | 8 | 3,999 | 3,500 | 0 | 0% |
| | | 9 | 4,499 | 4,000 | 0 | 0% |
| | | 10 | 4,999 | 4,500 | 0 | 0% |
| | | 11 | 5,499 | 5,000 | 0 | 0% |
| | | | | | Total: | 30 100% |

Comment:
None.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05051H
Survey Unit Name: AB 45' Elevation –
Hot Lab Upper Walls and Ceiling

Classification: Class 2
Size (m²): 132

Judgmental and Miscellaneous Data

Measurement Type: Surface Scanning Beta
Measurement Units: dpm/100cm²
Minimum Value: 973

Scan Coverage (%): 25
Investigation Level: 7,500
Maximum Value: 5,483

Measurement Type: Removable Beta
Measurement Units: dpm/100cm²
Minimum Value: 30

Number of Measurements: 30
Investigation Level: 750
Maximum Value: 91

Discussion of Anomalous Measurement Data

Investigation Summary

No investigation required for this survey unit. No anomalous measurement data.

FINAL SURVEY RESULTS SUMMARY

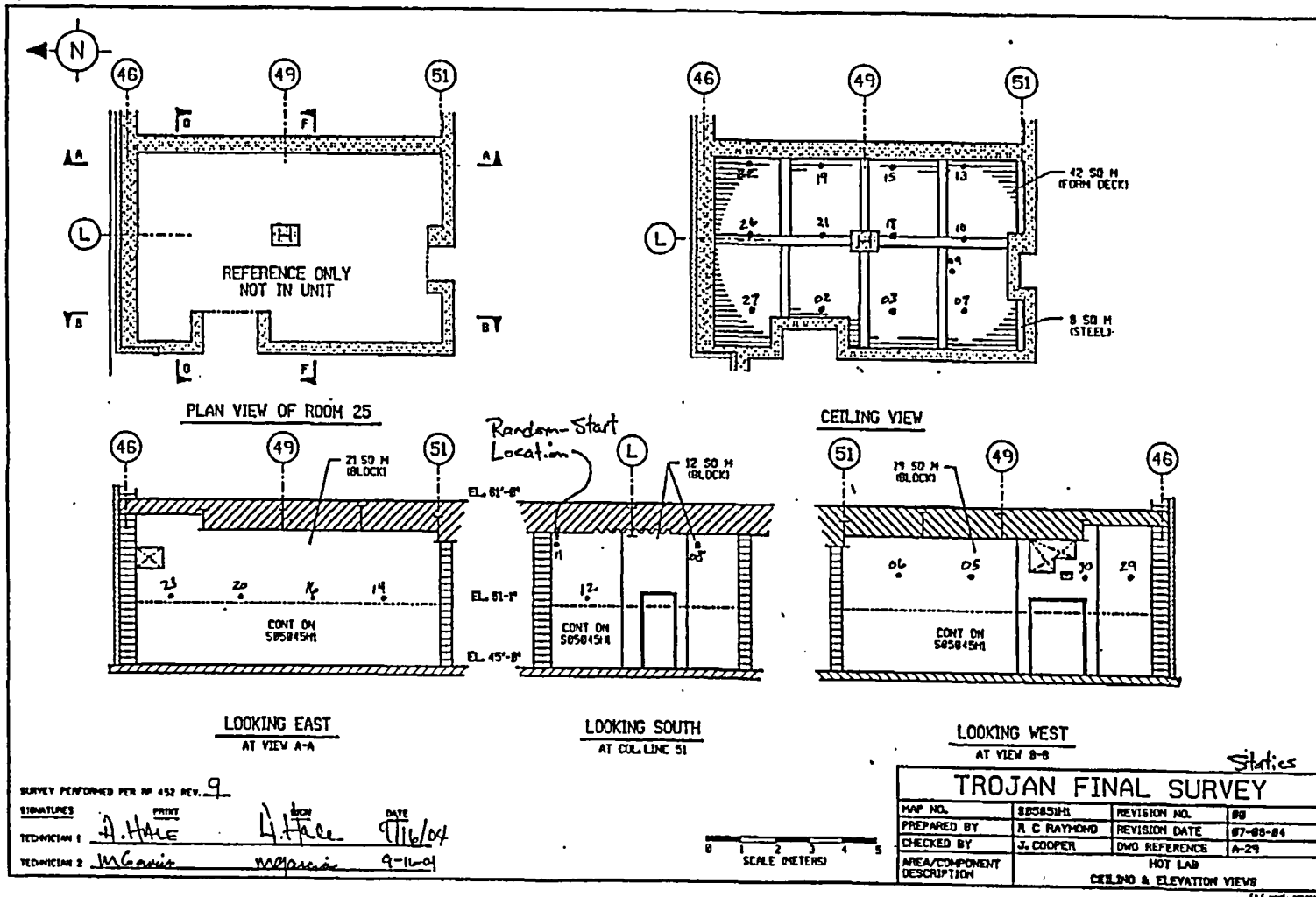
Survey Unit ID Code: S05051H

Survey Unit Name: AB 45' Elevation - Hot Lab Upper Walls and Ceiling

Classification: Class 2

Size (m²): 132

Static Measurement Location Map



FINAL SURVEY RESULTS SUMMARY

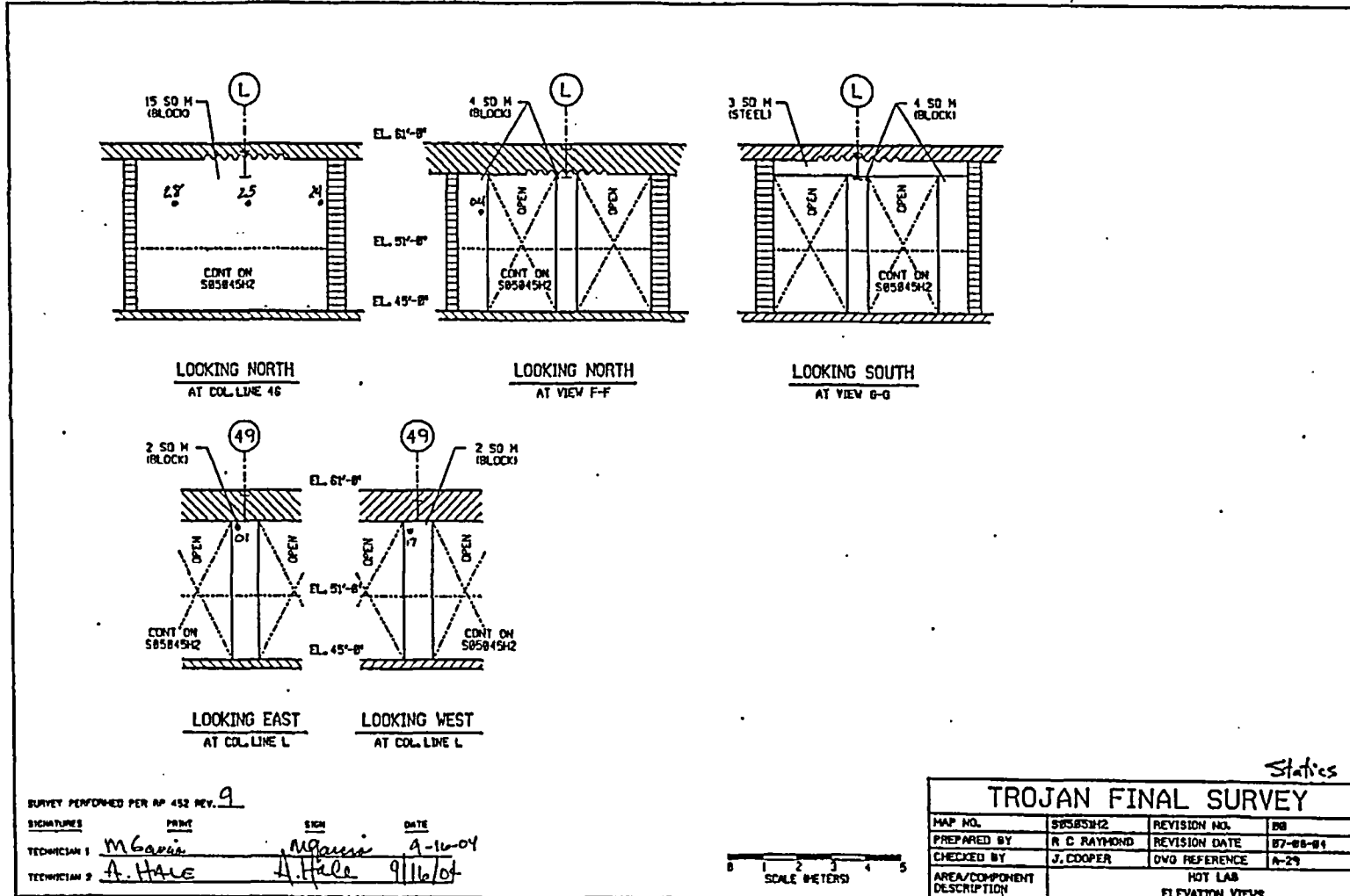
Survey Unit ID Code: S05051H

Survey Unit Name: AB 45' Elevation - Hot Lab Upper Walls and Ceiling

Classification: Class 2

Size (m²): 132

Static Measurement Location Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05052K

Classification: Class 2

Survey Unit Name: AB 45' Elevation -

Size (m²): 19

Pipe Penetration Area Valve Gallery Ceiling

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|-----------------------|------------|-------------------------|------------|-----|-----|
| 1 | 30 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 4.913e+002
 Maximum Value : 6.992e+002
 Range : 2.079e+002
 Median : 6.047e+002
 Std. Deviation : 5.822e+001
 Mean : 6.062e+002
 95% UCL : 6.242e+002

Measurement Values

| Location | Value | Location | Value |
|----------|------------|----------|------------|
| 000001 | 6.992e+002 | 000018 | 5.556e+002 |
| 000002 | 6.576e+002 | 000019 | 6.009e+002 |
| 000003 | 6.954e+002 | 000020 | 5.782e+002 |
| 000004 | 6.009e+002 | 000021 | 6.009e+002 |
| 000005 | 6.841e+002 | 000022 | 5.707e+002 |
| 000006 | 5.782e+002 | 000023 | 4.913e+002 |
| 000007 | 6.160e+002 | 000024 | 5.593e+002 |
| 000008 | 6.576e+002 | 000025 | 5.102e+002 |
| 000009 | 6.047e+002 | 000026 | 5.026e+002 |
| 000010 | 6.198e+002 | 000027 | 6.463e+002 |
| 000011 | 6.085e+002 | 000028 | 6.387e+002 |
| 000012 | 6.727e+002 | 000029 | 6.954e+002 |
| 000013 | 6.122e+002 | 000030 | 6.047e+002 |
| 000014 | 6.576e+002 | | |
| 000015 | 5.707e+002 | | |
| 000016 | 5.064e+002 | | |
| 000017 | 5.896e+002 | | |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05052K
 Survey Unit Name: AB 45' Elevation -
 Pipe Penetration Area Valve Gallery Ceiling

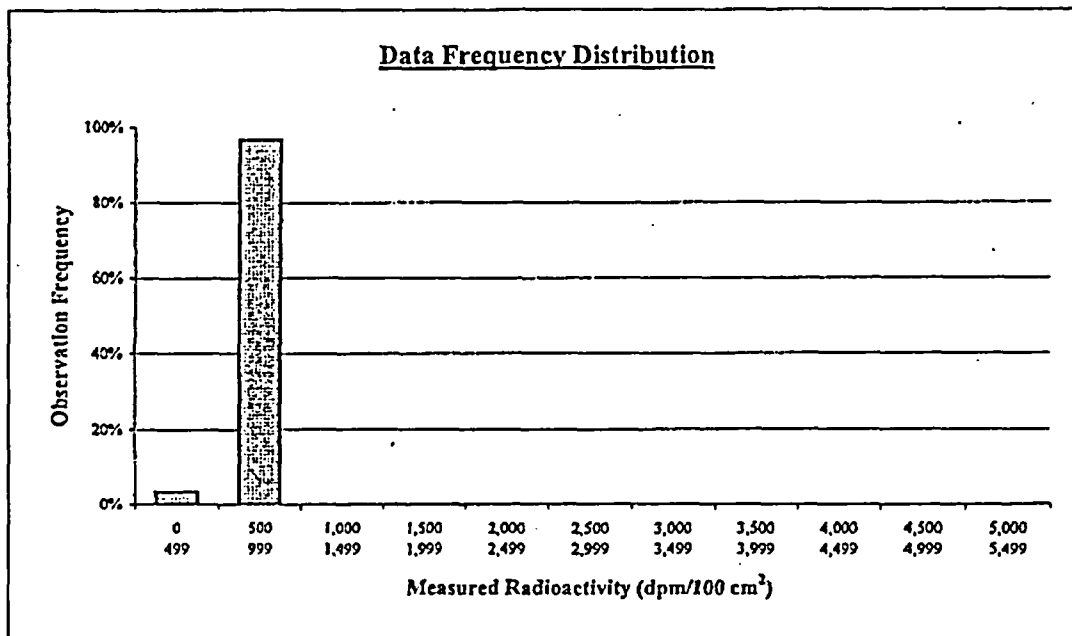
Classification: Class 2
 Size (m²): 19

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | |
|-------------------------|------------------|---------------------|-------------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? |
| Range | 208 | 291 | Pass |
| Median | 0.022 | 0.500 | Pass |
| Mean | 606 | 6,000 | Pass |
| Std Dev | 58 | 1,500 | Pass |

All data less than DCGL; Sign statistical test not required.

| Statistical Quantities | |
|------------------------|-------|
| Range: | 208 |
| Median: | 605 |
| Mean: | 606 |
| Std Dev: | 58 |
| Minimum: | 491 |
| Maximum: | 699 |
| DCGL: | 7,500 |



| Plot Parameters | |
|---------------------|-------|
| # of measurements: | 30 |
| # of intervals: | 11 |
| Interval increment: | 500 |
| Minimum: | 0 |
| Maximum: | 5,499 |

Comment:
None.

| Interval | High End | Low End | Number of Observations | Observation Frequency |
|----------|----------|---------|------------------------|-----------------------|
| 1 | 499 | 0 | 1 | 3% |
| 2 | 999 | 500 | 29 | 97% |
| 3 | 1,499 | 1,000 | 0 | 0% |
| 4 | 1,999 | 1,500 | 0 | 0% |
| 5 | 2,499 | 2,000 | 0 | 0% |
| 6 | 2,999 | 2,500 | 0 | 0% |
| 7 | 3,499 | 3,000 | 0 | 0% |
| 8 | 3,999 | 3,500 | 0 | 0% |
| 9 | 4,499 | 4,000 | 0 | 0% |
| 10 | 4,999 | 4,500 | 0 | 0% |
| 11 | 5,499 | 5,000 | 0 | 0% |
| Total: | | | 30 | 100% |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05052K

Classification: Class 2

Survey Unit Name: AB 45' Elevation –
Pipe Penetration Area Valve Gallery Ceiling

Size (m²): 19

Judgmental and Miscellaneous Data

Measurement Type: Surface Scanning Beta

Scan Coverage (%): 35

Measurement Units: dpm/100cm²

Investigation Level: 7,500

Minimum Value: 759

Maximum Value: 1,031

Measurement Type: Removable Beta

Number of Measurements: 30

Measurement Units: dpm/100cm²

Investigation Level: 750

Minimum Value: 40

Maximum Value: 80

Discussion of Anomalous Measurement Data

Investigation Summary

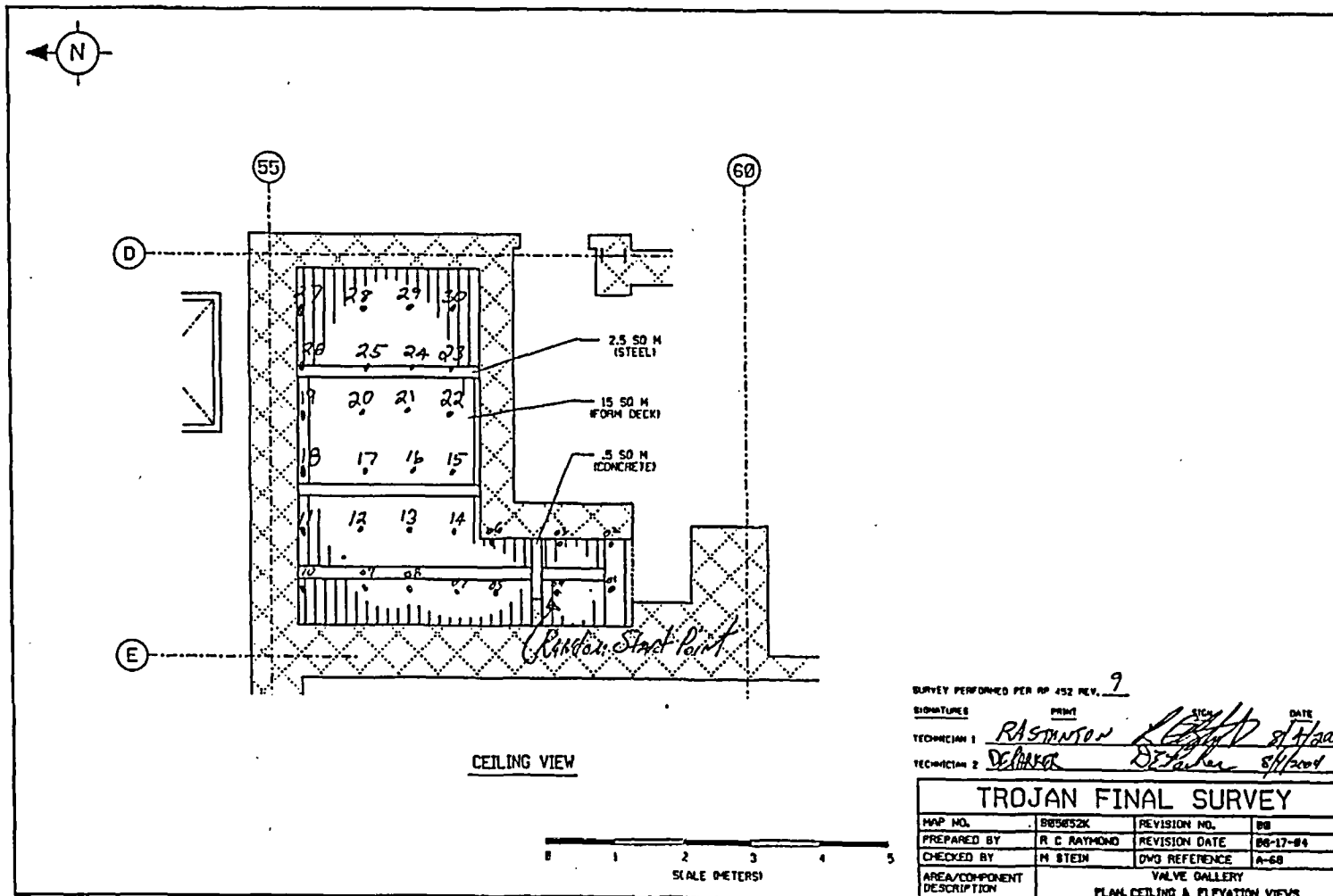
No investigation required for this survey unit. No anomalous measurement data.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05052K
 Survey Unit Name: AB 45' Elevation -
 Pipe Penetration Area Valve Gallery Ceiling

Classification: Class 2
 Size (m²): 19

Static Measurement Location Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: G05045L

Classification: Class 1

Survey Unit Name: AB 45' Elevation --

Size (m²): 10

Pipe Penetration Area Exposed Soil Areas

Data Quality Values

| | | |
|--------|-------|-----------------------------|
| DCGL: | pCi/g | Unity Rule: ratio sum < 1.0 |
| Co-60 | 3.8 | |
| Cs-137 | 11.0 | |
| H-3 | 110.0 | |

| Sample Location Number | Recorded Activity | | | Unity Rule Analysis | | | Ratio Sum |
|------------------------|-------------------|--------|-------|---------------------|-------|--------|-----------|
| | Co-60 | Cs-137 | H-3 | (Activity) / (DCGL) | | | |
| | pCi/g | pCi/g | pCi/g | Co-60 | C-137 | H-3 | |
| 01 | 0.034 | 0.069 | 3.0 | 0.009 | 0.006 | 0.027 | 0.042 |
| 02 | 0.044 | 0.032 | 1.2 | 0.012 | 0.003 | 0.011 | 0.025 |
| 03 | 0.056 | 0.091 | 0.3 | 0.015 | 0.008 | 0.003 | 0.026 |
| 04 | 0.041 | 0.088 | 1.8 | 0.011 | 0.008 | 0.016 | 0.035 |
| 05 | 0.067 | 0.080 | 2.8 | 0.018 | 0.007 | 0.025 | 0.050 |
| 06 | 0.045 | 0.078 | 2.0 | 0.012 | 0.007 | 0.018 | 0.037 |
| 07 | 0.168 | 0.087 | 1.4 | 0.044 | 0.008 | 0.013 | 0.065 |
| 08 | 0.041 | 0.055 | 2.0 | 0.011 | 0.005 | 0.018 | 0.034 |
| 09 | 0.083 | 0.139 | 1.4 | 0.022 | 0.013 | 0.013 | 0.047 |
| 10 | 0.065 | 0.071 | 1.8 | 0.017 | 0.006 | 0.016 | 0.040 |
| 11 | 0.076 | 0.073 | 0.8 | 0.020 | 0.007 | 0.007 | 0.034 |
| 12 | 0.054 | 0.092 | 1.3 | 0.014 | 0.008 | 0.012 | 0.034 |
| 13 | 0.121 | 0.111 | 1.0 | 0.032 | 0.010 | 0.009 | 0.051 |
| 14 | 0.041 | 0.064 | 2.4 | 0.011 | 0.006 | 0.022 | 0.038 |
| 15 | 0.147 | 0.205 | 2.3 | 0.039 | 0.019 | 0.021 | 0.078 |
| 16 | 0.125 | 0.191 | 1.5 | 0.033 | 0.017 | 0.014 | 0.064 |
| 17 | 0.101 | 0.078 | 0.4 | 0.027 | 0.007 | 0.004 | 0.037 |
| 18 | 0.041 | 0.064 | 0.5 | 0.011 | 0.006 | 0.005 | 0.021 |
| 19 | 0.041 | 0.073 | 1.2 | 0.011 | 0.007 | 0.011 | 0.028 |
| 20 | 0.052 | 0.087 | 0.3 | 0.014 | 0.008 | 0.003 | 0.024 |
| 21 | 0.041 | 0.064 | 0.0 | 0.011 | 0.006 | 0.000 | 0.017 |
| 22 | 0.101 | 0.074 | 0.1 | 0.027 | 0.007 | 0.001 | 0.034 |
| 23 | 0.041 | 0.064 | -0.8 | 0.011 | 0.006 | -0.007 | 0.009 |
| 24 | 0.323 | 0.533 | -0.8 | 0.085 | 0.048 | -0.007 | 0.126 |
| 25 | 0.220 | 0.328 | -1.3 | 0.058 | 0.030 | -0.012 | 0.076 |
| 26 | 0.446 | 0.704 | 0.1 | 0.117 | 0.064 | 0.001 | 0.182 |
| 27 | 0.059 | 0.101 | -0.4 | 0.016 | 0.009 | -0.004 | 0.021 |
| 28 | 0.362 | 0.079 | -1.2 | 0.095 | 0.007 | -0.011 | 0.092 |
| 29 | 3.533 | 0.373 | 0.7 | 0.930 | 0.034 | 0.006 | 0.970 |
| 30 | 0.063 | 0.050 | 0.8 | 0.017 | 0.005 | 0.007 | 0.028 |
| Minimum | 0.034 | 0.032 | -1.3 | 0.009 | 0.003 | -0.012 | 0.009 |
| Maximum | 3.533 | 0.704 | 3.0 | 0.930 | 0.064 | 0.027 | 0.970 |
| Median | 0.064 | 0.080 | 0.9 | 0.017 | 0.007 | 0.008 | 0.037 |
| Mean | 0.221 | 0.140 | 0.9 | 0.058 | 0.013 | 0.008 | 0.079 |
| Std. Dev. | 0.634 | 0.152 | 1.1 | 0.167 | 0.014 | 0.010 | 0.172 |

Conclusion:

All samples pass unity rule requirement; survey unit meets site release criterion.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: G05045L

Classification: Class 1

Survey Unit Name: AB 45' Elevation –

Size (m²): 10

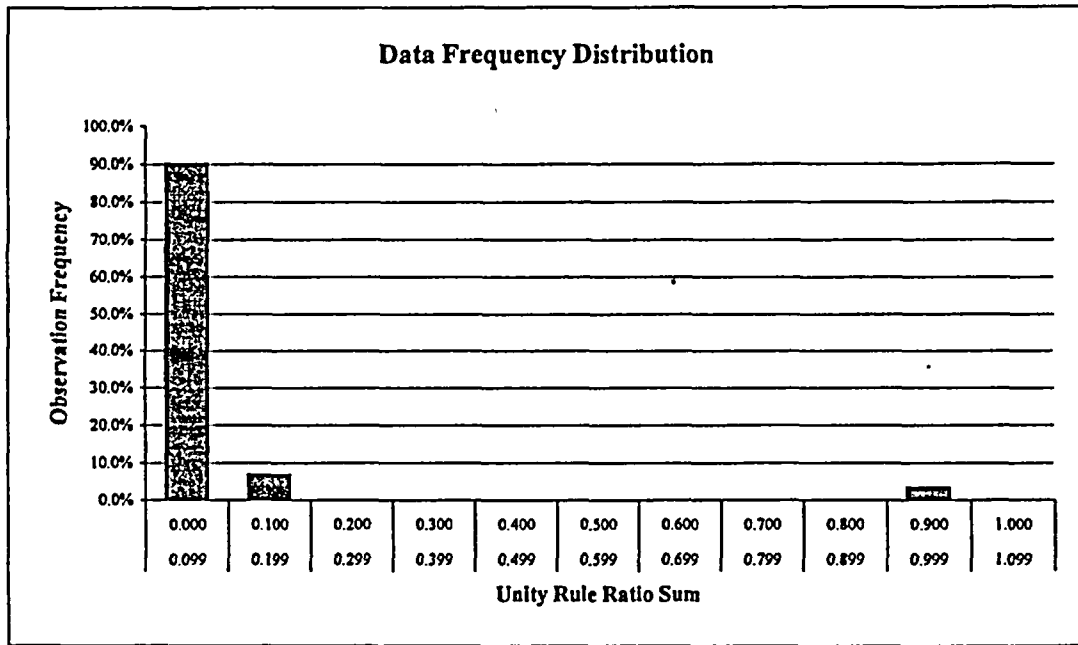
Pipe Penetration Area Exposed Soil Areas

Measurement Data Statistical Evaluation

| Statistical Quantities Tests | | | |
|------------------------------|------------------|---------------------|-------------------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? |
| Range | 0.961 | 0.860 | See comment below |
| Median | 0.243 | 0.500 | Pass |
| Mean | 0.079 | 1.000 | Pass |
| Std Dev | 0.172 | 0.200 | Pass |

| Statistical Quantities | |
|------------------------|-------|
| Range: | 0.961 |
| Median: | 0.037 |
| Mean: | 0.079 |
| Std Dev: | 0.172 |
| Minimum: | 0.009 |
| Maximum: | 0.970 |
| DCGL: | 1.000 |

All data less than DCGL; Sign statistical test not required.



| Plot Parameters | |
|---------------------|-------|
| # of measurements: | 30 |
| # of intervals: | 11 |
| Interval increment: | 0.100 |
| Minimum: | 0.000 |
| Maximum: | 1.099 |

| Interval | High | Low | Number | Frequency |
|----------|-------|-------|--------|-----------|
| 1 | 0.099 | 0.000 | 27 | 90.0% |
| 2 | 0.199 | 0.100 | 2 | 6.7% |
| 3 | 0.299 | 0.200 | 0 | 0.0% |
| 4 | 0.399 | 0.300 | 0 | 0.0% |
| 5 | 0.499 | 0.400 | 0 | 0.0% |
| 6 | 0.599 | 0.500 | 0 | 0.0% |
| 7 | 0.699 | 0.600 | 0 | 0.0% |
| 8 | 0.799 | 0.700 | 0 | 0.0% |
| 9 | 0.899 | 0.800 | 0 | 0.0% |
| 10 | 0.999 | 0.900 | 1 | 3.3% |
| 11 | 1.099 | 1.000 | 0 | 0.0% |
| Total: | | | 30 | 100% |

Comment:

Range failure is a test artifact due to a single measurement value exceeding 0.900 while the other 29 values are less than 0.200. All measurement values are valid, and accepted as representative of the survey unit.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: G05045L

Classification: Class 1

Survey Unit Name: AB 45' Elevation –

Size (m²): 10

Pipe Penetration Area Exposed Soil Areas

Judgmental and Miscellaneous Data

None

Discussion of Anomalous Measurement Data

Investigation Summary

No investigation required for this survey unit. No anomalous measurement data.

FINAL SURVEY RESULTS SUMMARY

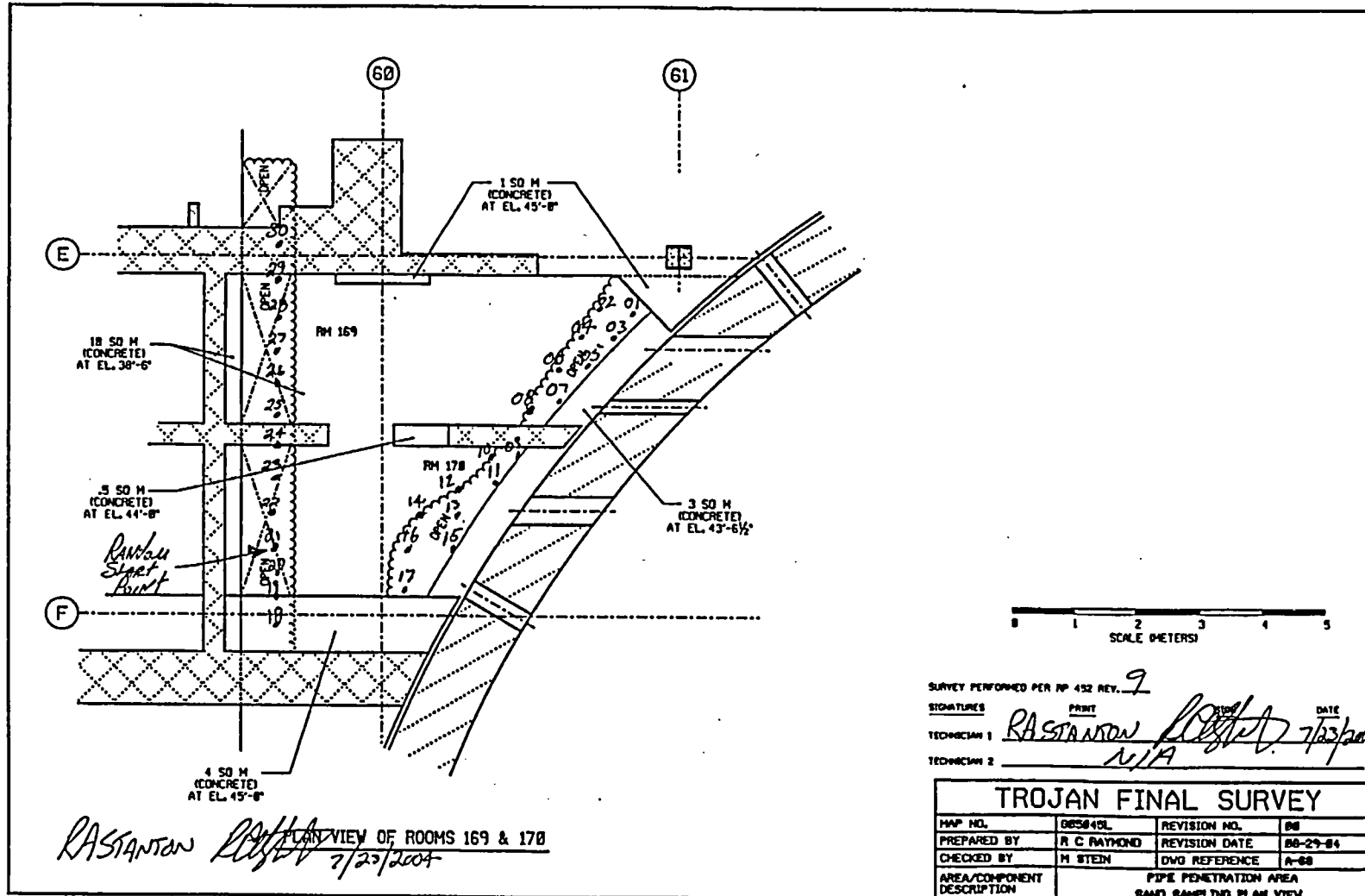
Survey Unit ID Code: G05045L

Survey Unit Name: AB 45' Elevation - Pipe Penetration Area Exposed Soil Areas

Classification: Class 1

Size (m²): 10

Static Measurement Location Map



APPENDIX E

SURVEY UNIT SUMMARY REPORTS – AUXILIARY BUILDING

| <u>Survey Unit ID Code</u> | <u>Page(s)</u> |
|----------------------------|-------------------|
| S05061A | E-2 through E-8 |
| S05061B..... | E-9 through E-13 |
| S05061C..... | E-14 through E-19 |
| S05061D | E-20 through E-25 |
| S05061E..... | E-26 through E-30 |
| S05061F | E-31 through E-34 |
| S05061G | E-35 through E-38 |
| S05061H | E-39 through E-46 |
| S05061I..... | E-47 through E-50 |
| S05061J..... | E-51 through E-58 |
| S05061K | E-59 through E-63 |
| S05067B..... | E-64 through E-68 |
| S05067C..... | E-69 through E-74 |
| S05067E..... | E-75 through E-79 |
| S05070S | E-80 through E-83 |
| S05070T..... | E-84 through E-87 |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05061A
 Survey Unit Name: AB 61' Elevation -
 North and West Corridors

Classification: Class 2
 Size (m²): 772

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|-----------------------|------------|-------------------------|------------|-----|-----|
| 1 | 39 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 5.229e+002
 Maximum Value : 1.368e+003
 Range : 8.451e+002
 Median : 1.124e+003
 Std. Deviation : 2.365e+002
 Mean : 1.073e+003
 95% UCL : 1.137e+003

Measurement Values

| Location | Value | Location | Value | Location | Value |
|----------|------------|----------|------------|----------|------------|
| 000001 | 1.357e+003 | 000018 | 1.242e+003 | 000035 | 1.328e+003 |
| 000002 | 8.789e+002 | 000019 | 9.309e+002 | 000036 | 8.196e+002 |
| 000003 | 1.279e+003 | 000020 | 1.061e+003 | 000037 | 9.197e+002 |
| 000004 | 1.350e+003 | 000021 | 8.567e+002 | 000038 | 1.261e+003 |
| 000005 | 1.365e+003 | 000022 | 5.229e+002 | 000039 | 1.124e+003 |
| 000006 | 1.302e+003 | 000023 | 9.197e+002 | | |
| 000007 | 1.343e+003 | 000024 | 6.231e+002 | | |
| 000008 | 1.368e+003 | 000025 | 8.975e+002 | | |
| 000009 | 1.268e+003 | 000026 | 7.899e+002 | | |
| 000010 | 1.346e+003 | 000027 | 6.527e+002 | | |
| 000011 | 8.196e+002 | 000028 | 8.975e+002 | | |
| 000012 | 1.235e+003 | 000029 | 1.291e+003 | | |
| 000013 | 9.568e+002 | 000030 | 1.209e+003 | | |
| 000014 | 1.198e+003 | 000031 | 8.938e+002 | | |
| 000015 | 8.827e+002 | 000032 | 1.024e+003 | | |
| 000016 | 1.183e+003 | 000033 | 1.272e+003 | | |
| 000017 | 9.494e+002 | 000034 | 1.220e+003 | | |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05061A
 Survey Unit Name: AB 61' Elevation -
 North and West Corridors

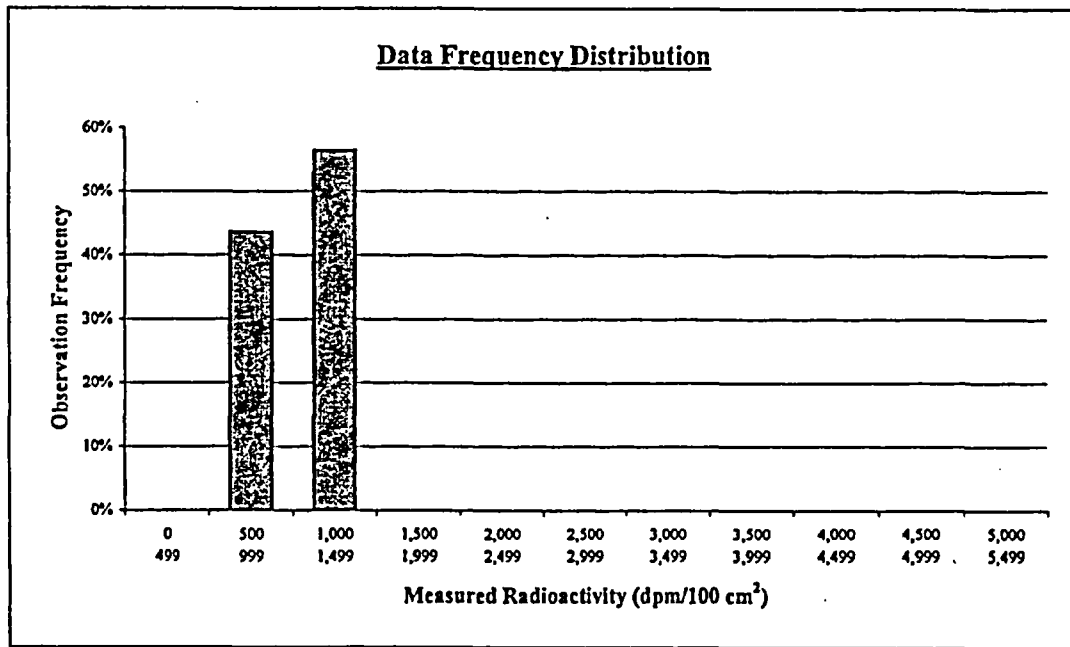
Classification: Class 2
 Size (m²): 772

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | |
|-------------------------|------------------|---------------------|-------------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? |
| Range | 845 | 1,182 | Pass |
| Median | 0.216 | 0.500 | Pass |
| Mean | 1,073 | 6,000 | Pass |
| Std Dev | 236 | 1,500 | Pass |

All data less than DCGL; Sign statistical test not required.

| Statistical Quantities | |
|------------------------|-------|
| Range: | 845 |
| Median: | 1,124 |
| Mean: | 1,073 |
| Std Dev: | 236 |
| Minimum: | 523 |
| Maximum: | 1,368 |
| DCGL: | 7,500 |



| Plot Parameters | |
|---------------------|-------|
| # of measurements: | 39 |
| # of intervals: | 11 |
| Interval increment: | 500 |
| Minimum: | 0 |
| Maximum: | 5,499 |

Comment:
 None.

| Interval | High End | Low End | Number of Observations | Observation Frequency |
|----------|----------|---------|------------------------|-----------------------|
| 1 | 499 | 0 | 0 | 0% |
| 2 | 999 | 500 | 17 | 44% |
| 3 | 1,499 | 1,000 | 22 | 56% |
| 4 | 1,999 | 1,500 | 0 | 0% |
| 5 | 2,499 | 2,000 | 0 | 0% |
| 6 | 2,999 | 2,500 | 0 | 0% |
| 7 | 3,499 | 3,000 | 0 | 0% |
| 8 | 3,999 | 3,500 | 0 | 0% |
| 9 | 4,499 | 4,000 | 0 | 0% |
| 10 | 4,999 | 4,500 | 0 | 0% |
| 11 | 5,499 | 5,000 | 0 | 0% |
| Total: | | | 39 | 100% |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05061A
Survey Unit Name: AB 61' Elevation –
North and West Corridors

Classification: Class 2
Size (m²): 772

Judgmental and Miscellaneous Data

Measurement Type: Surface Scanning Beta
Measurement Units: dpm/100cm²
Minimum Value: 812

Scan Coverage (%): 25
Investigation Level: 7,500
Maximum Value: 5,015

Measurement Type: Removable Beta
Measurement Units: dpm/100cm²
Minimum Value: 48

Number of Measurements: 39
Investigation Level: 750
Maximum Value: 83

Discussion of Anomalous Measurement Data

Investigation Summary

No investigation required for this survey unit. No anomalous measurement data.

FINAL SURVEY RESULTS SUMMARY

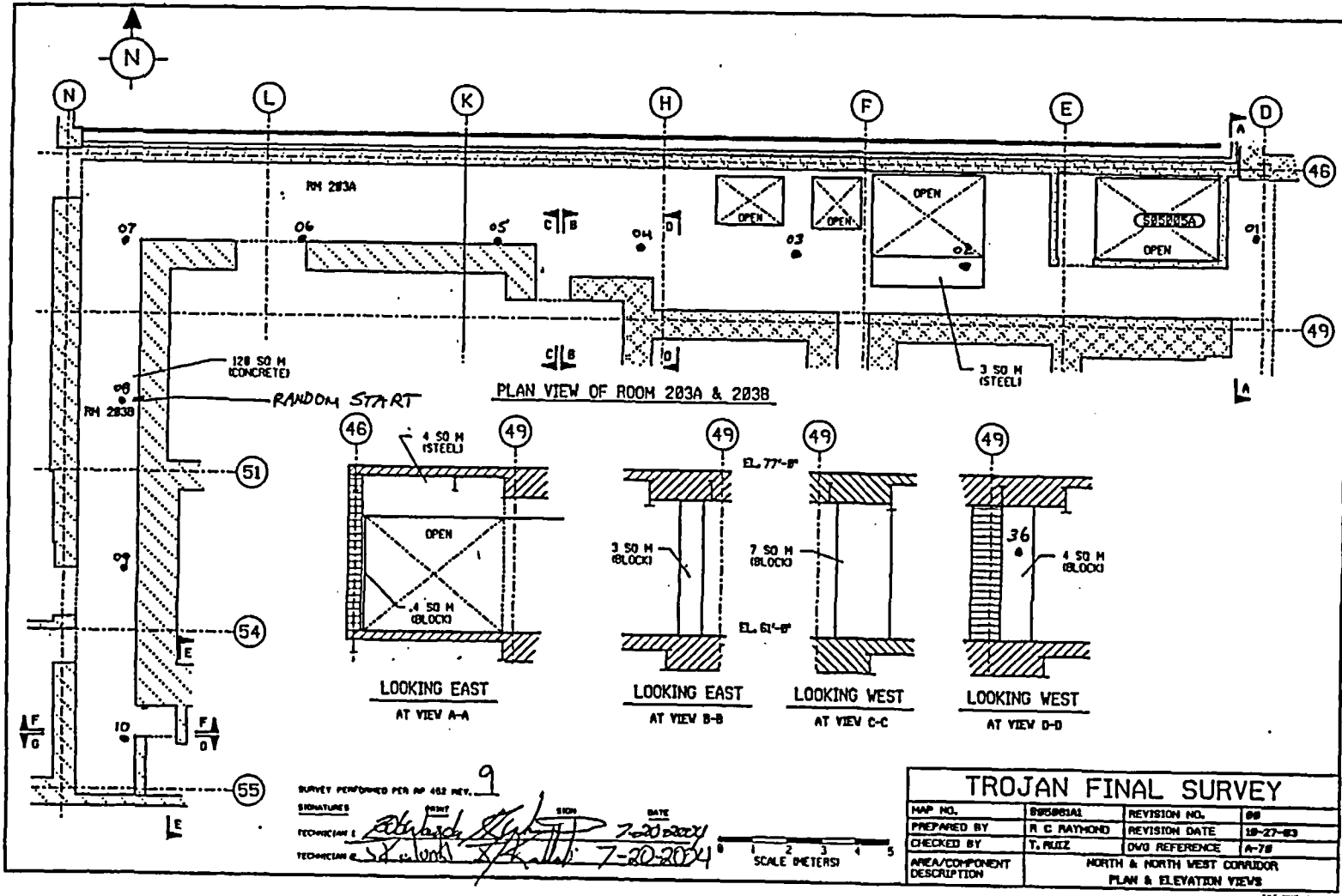
Survey Unit ID Code: S05061A

Survey Unit Name: AB 61' Elevation - North and West Corridors

Classification: Class 2

Size (m²): 772

Static Measurement Location Map



FINAL SURVEY RESULTS SUMMARY

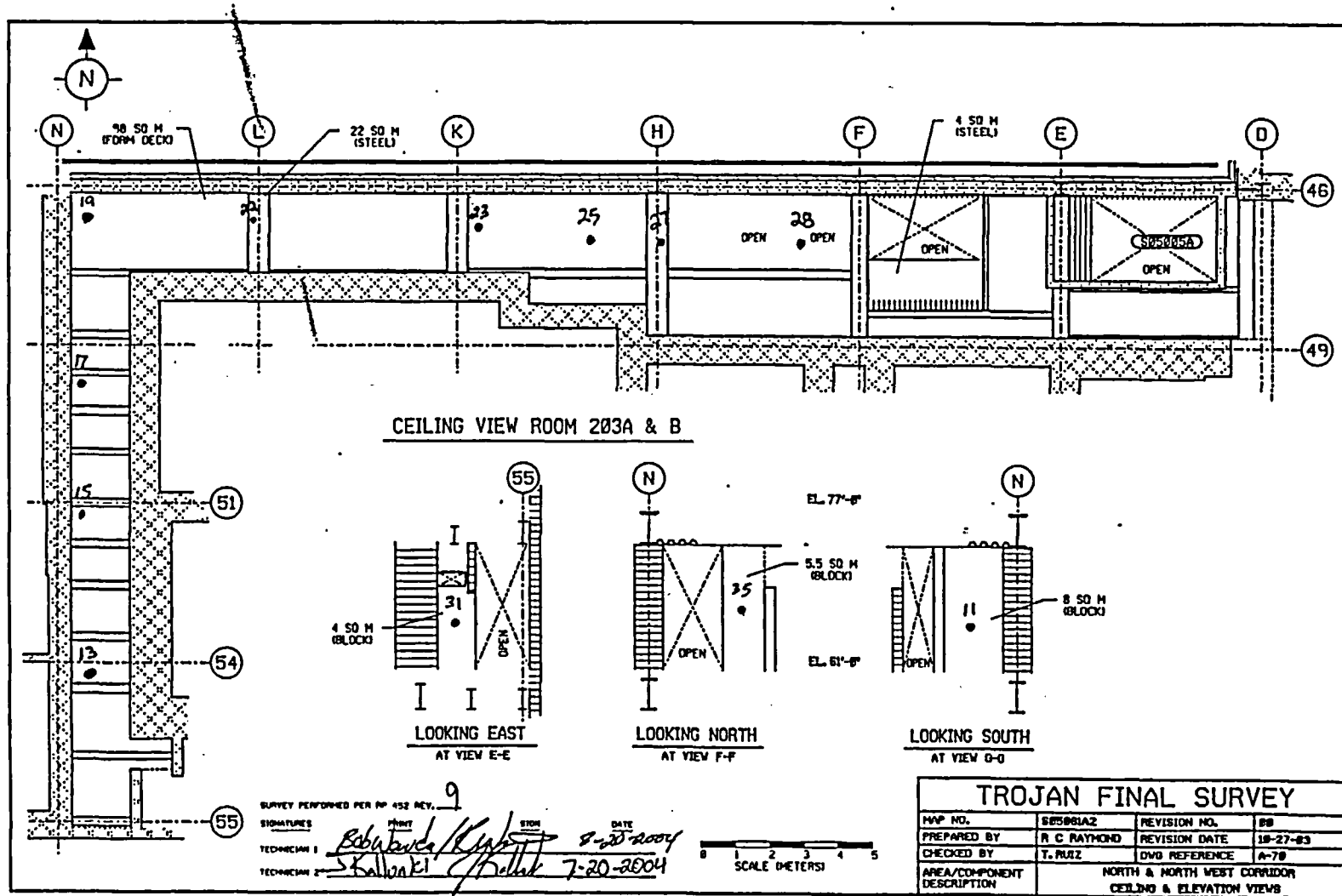
Survey Unit ID Code: S05061A

Survey Unit Name: AB 61' Elevation - North and West Corridors

Classification: Class 2

Size (m²): 772

Static Measurement Location Map

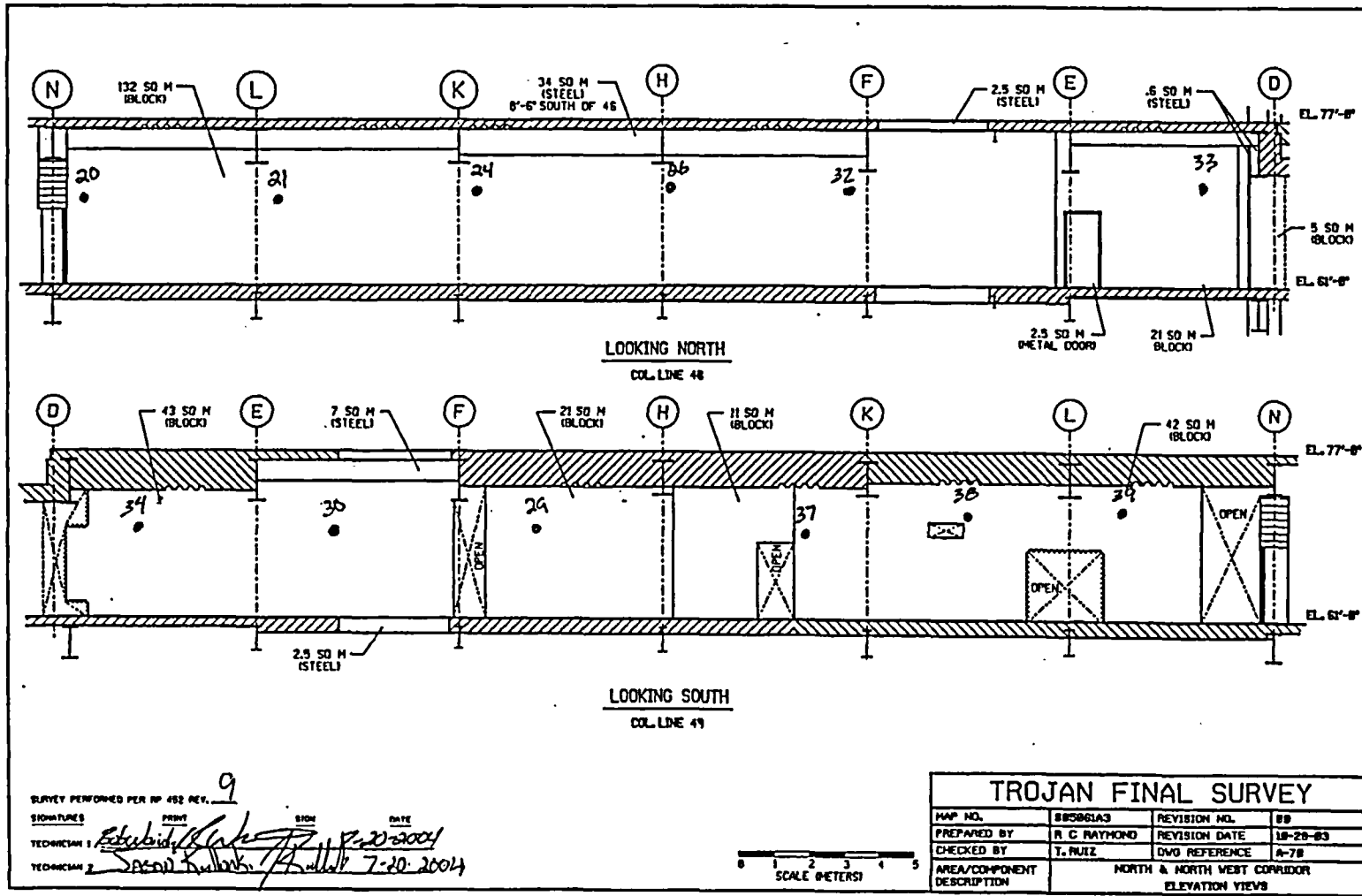


FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05061A
 Survey Unit Name: AB 61' Elevation - North and West Corridors

Classification: Class 2
 Size (m²): 772

Static Measurement Location Map



FINAL SURVEY RESULTS SUMMARY

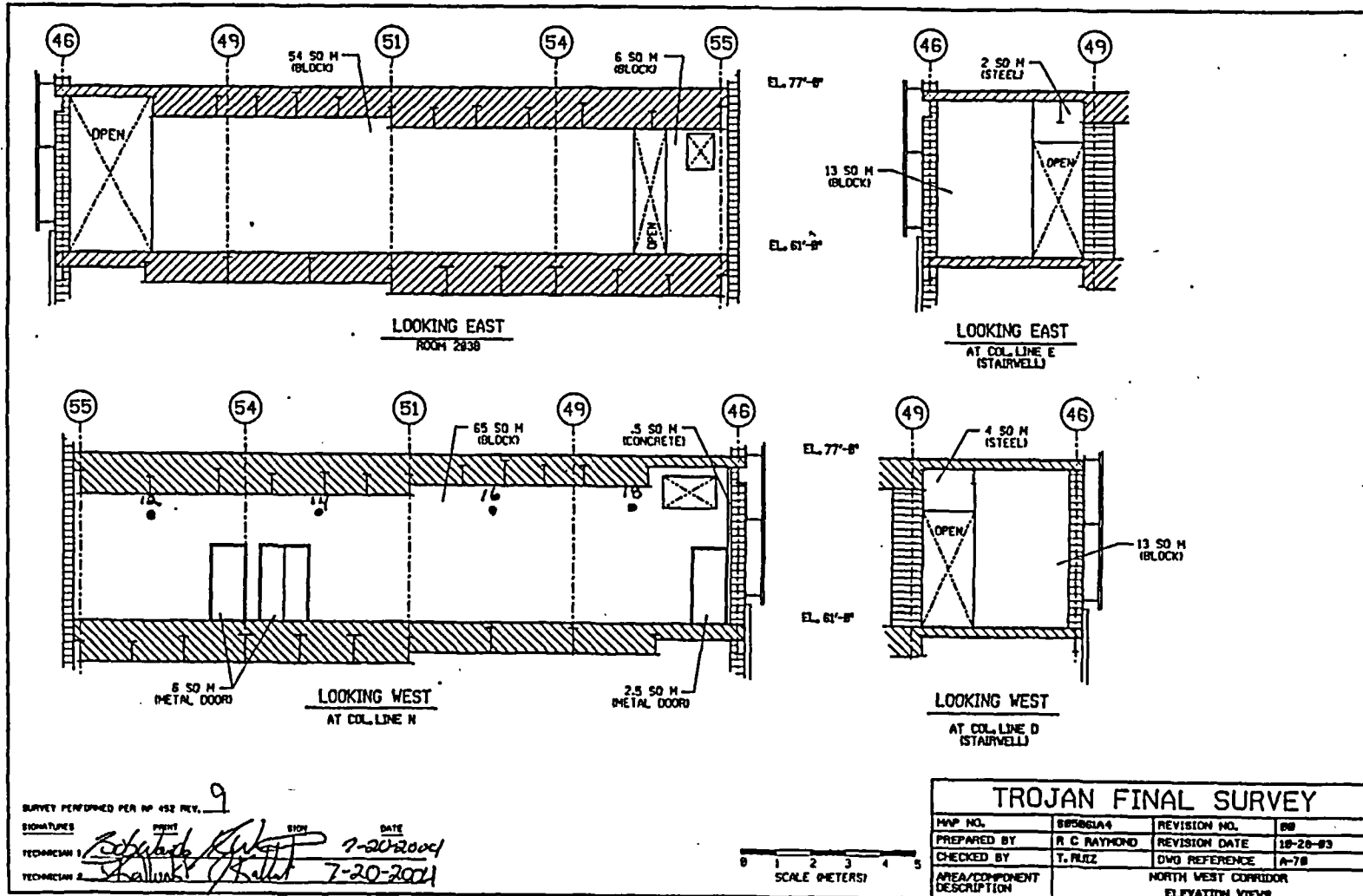
Survey Unit ID Code: S05061A

Survey Unit Name: AB 61' Elevation - North and West Corridors

Classification: Class 2

Size (m²): 772

Static Measurement Location Map



SURVEY PERFORMED PER DP 452 REV. 9

SIGNATURES: *[Handwritten signatures]* PRINT: *[Handwritten names]* SIDE: *[Handwritten]* DATE: 7-20-2004

TECHNICIAN 1: *[Handwritten]* 7-20-2004

TECHNICIAN 2: *[Handwritten]* 7-20-2004

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05061B
 Survey Unit Name: AB 61' Elevation -
 Valve Gallery Floor and Lower Walls

Classification: Class 1
 Size (m²): 123

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|--------------------------|---------------|-------------------------|------------|-----|-----|
| 1 | 32 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 2.990e+002
 Maximum Value : 2.424e+003
 Range : 2.125e+003
 Median : 8.453e+002
 Std. Deviation : 6.288e+002
 Mean : 1.139e+003
 95% UCL : 1.327e+003

Measurement Values

| Location | Value | Location | Value |
|----------|------------|----------|------------|
| 000001 | 1.969e+003 | 000018 | 7.900e+002 |
| 000002 | 2.043e+003 | 000019 | 7.826e+002 |
| 000003 | 2.079e+003 | 000020 | 8.453e+002 |
| 000004 | 2.116e+003 | 000021 | 8.490e+002 |
| 000005 | 2.424e+003 | 000022 | 8.306e+002 |
| 000006 | 2.073e+003 | 000023 | 2.990e+002 |
| 000007 | 2.166e+003 | 000024 | 8.527e+002 |
| 000008 | 1.821e+003 | 000025 | 7.937e+002 |
| 000009 | 2.203e+003 | 000026 | 4.467e+002 |
| 000010 | 7.641e+002 | 000027 | 7.715e+002 |
| 000011 | 7.900e+002 | 000028 | 8.970e+002 |
| 000012 | 8.453e+002 | 000029 | 6.571e+002 |
| 000013 | 9.524e+002 | 000030 | 5.759e+002 |
| 000014 | 7.124e+002 | 000031 | 7.198e+002 |
| 000015 | 8.601e+002 | 000032 | 8.453e+002 |
| 000016 | 8.564e+002 | | |
| 000017 | 8.084e+002 | | |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05061B
 Survey Unit Name: AB 61' Elevation -
 Valve Gallery Floor and Lower Walls

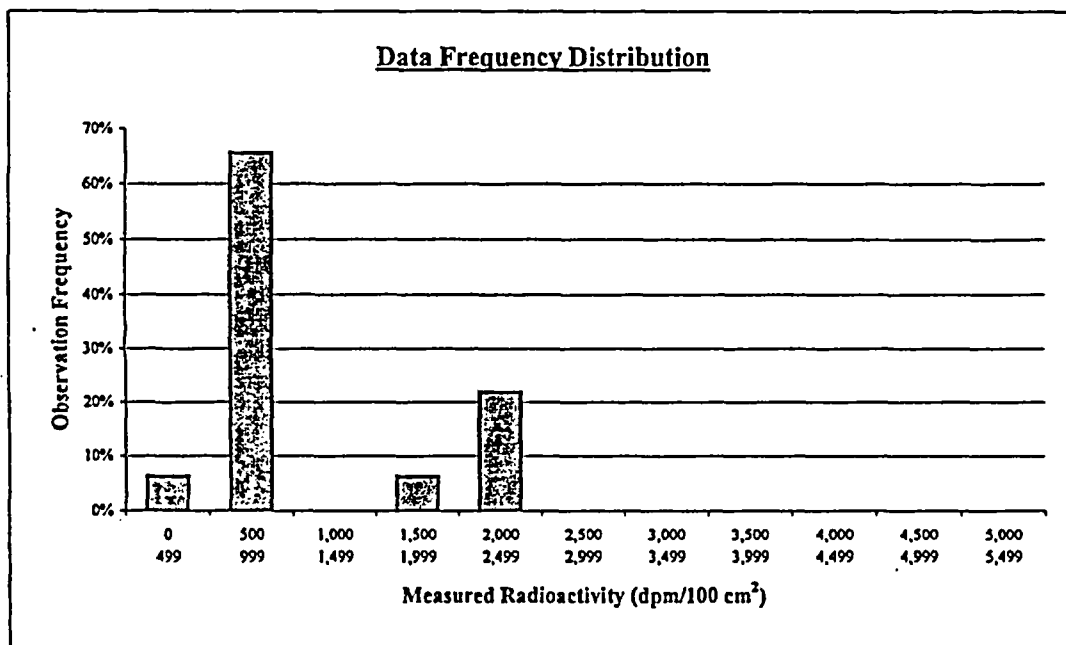
Classification: Class 1
 Size (m²): 123

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | |
|-------------------------|------------------|---------------------|-------------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? |
| Range | 2,125 | 3,144 | Pass |
| Median | 0.467 | 0.500 | Pass |
| Mean | 1,139 | 6,000 | Pass |
| Std Dev | 629 | 1,500 | Pass |

All data less than DCGL; Sign statistical test not required.

| Statistical Quantities | |
|------------------------|-------|
| Range: | 2,125 |
| Median: | 845 |
| Mean: | 1,139 |
| Std Dev: | 629 |
| Minimum: | 299 |
| Maximum: | 2,424 |
| DCGL: | 7,500 |



| Plot Parameters | |
|---------------------|-------|
| # of measurements: | 32 |
| # of intervals: | 11 |
| Interval increment: | 500 |
| Minimum: | 0 |
| Maximum: | 5,499 |

| Interval | High End | Low End | Number of Observations | Observation Frequency |
|----------|----------|---------|------------------------|-----------------------|
| 1 | 499 | 0 | 2 | 6% |
| 2 | 999 | 500 | 21 | 66% |
| 3 | 1,499 | 1,000 | 0 | 0% |
| 4 | 1,999 | 1,500 | 2 | 6% |
| 5 | 2,499 | 2,000 | 7 | 22% |
| 6 | 2,999 | 2,500 | 0 | 0% |
| 7 | 3,499 | 3,000 | 0 | 0% |
| 8 | 3,999 | 3,500 | 0 | 0% |
| 9 | 4,499 | 4,000 | 0 | 0% |
| 10 | 4,999 | 4,500 | 0 | 0% |
| 11 | 5,499 | 5,000 | 0 | 0% |
| Total: | | | 32 | 100% |

Comment:
 The data set contains values from both smooth and scabbled concrete surfaces, resulting in an expected bimodal distribution, due to different detector efficiency factors for the 2 geometries.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05061B

Classification: Class 1

Survey Unit Name: AB 61' Elevation –

Size (m²): 123

Valve Gallery Floor and Lower Walls

Judgmental and Miscellaneous Data

Measurement Type: Surface Scanning Beta

Scan Coverage (%): 100

Measurement Units: dpm/100cm²

Investigation Level: 7,500

Minimum Value: 768

Maximum Value: 6,785

Measurement Type: Removable Beta

Number of Measurements: 32

Measurement Units: dpm/100cm²

Investigation Level: 750

Minimum Value: 46

Maximum Value: 85

Discussion of Anomalous Measurement Data

Investigation Summary

No investigation required for this survey unit. No anomalous measurement data.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05061B

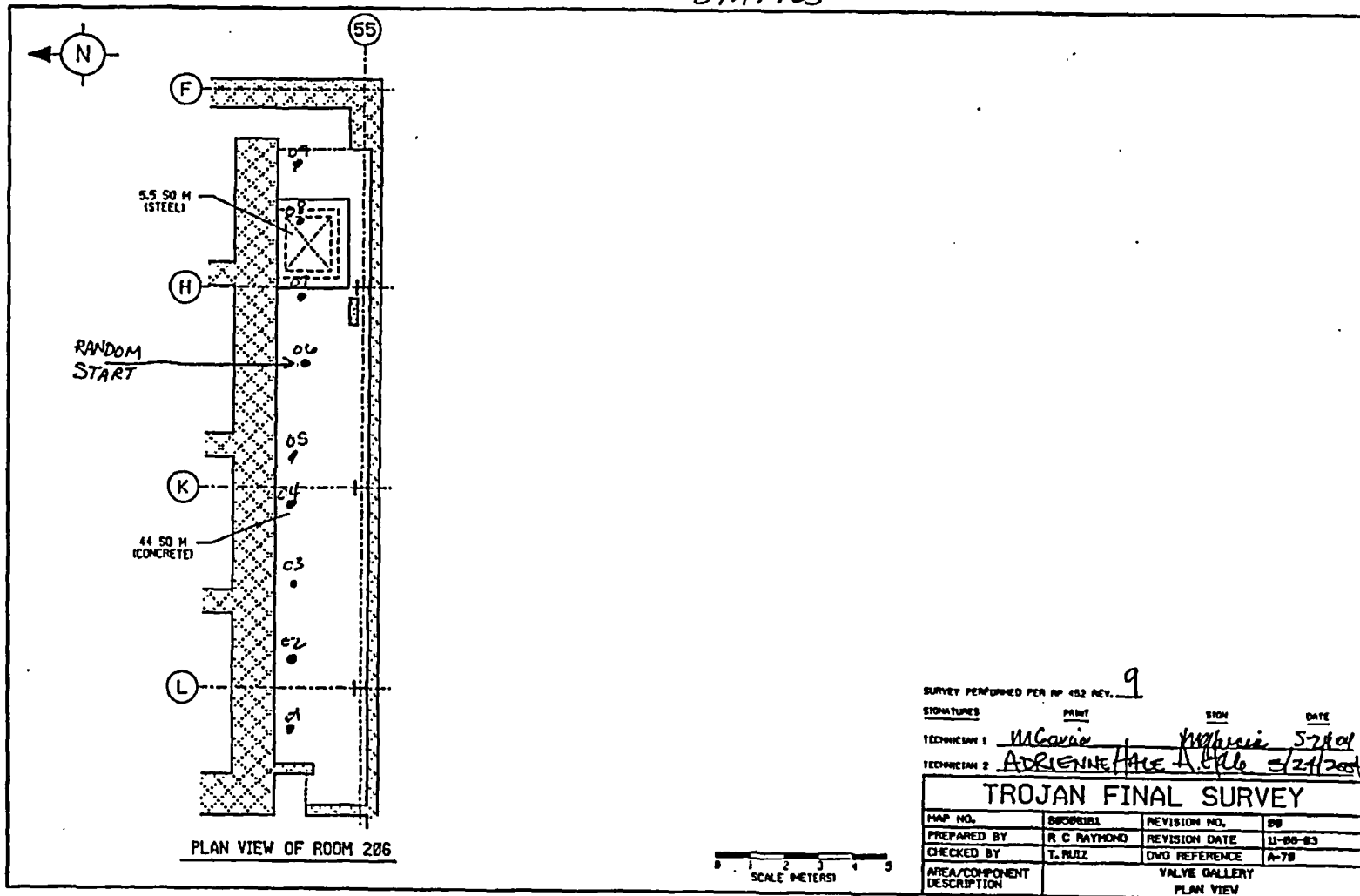
Survey Unit Name: AB 61' Elevation - Valve Gallery Floor and Lower Walls

Classification: Class 1

Size (m²): 123

Static Measurement Location Map

STATICS



SURVEY PERFORMED PER RP 452 REV. 9

SIGNATURES PRINT SIGN DATE

TECHNICIAN 1 McGowan McGowan 5/21/01

TECHNICIAN 2 ADRIENNE HALE A. Hale 5/21/2001

| TROJAN FINAL SURVEY | | | |
|----------------------------|----------------------------|---------------|----------|
| MAP NO. | S05061B | REVISION NO. | 00 |
| PREPARED BY | R. C. RAYMOND | REVISION DATE | 11-08-03 |
| CHECKED BY | T. RUIZ | DWG REFERENCE | A-7B |
| AREA/COMPONENT DESCRIPTION | VALVE GALLERY PLAN VIEW | | |

FINAL SURVEY RESULTS SUMMARY

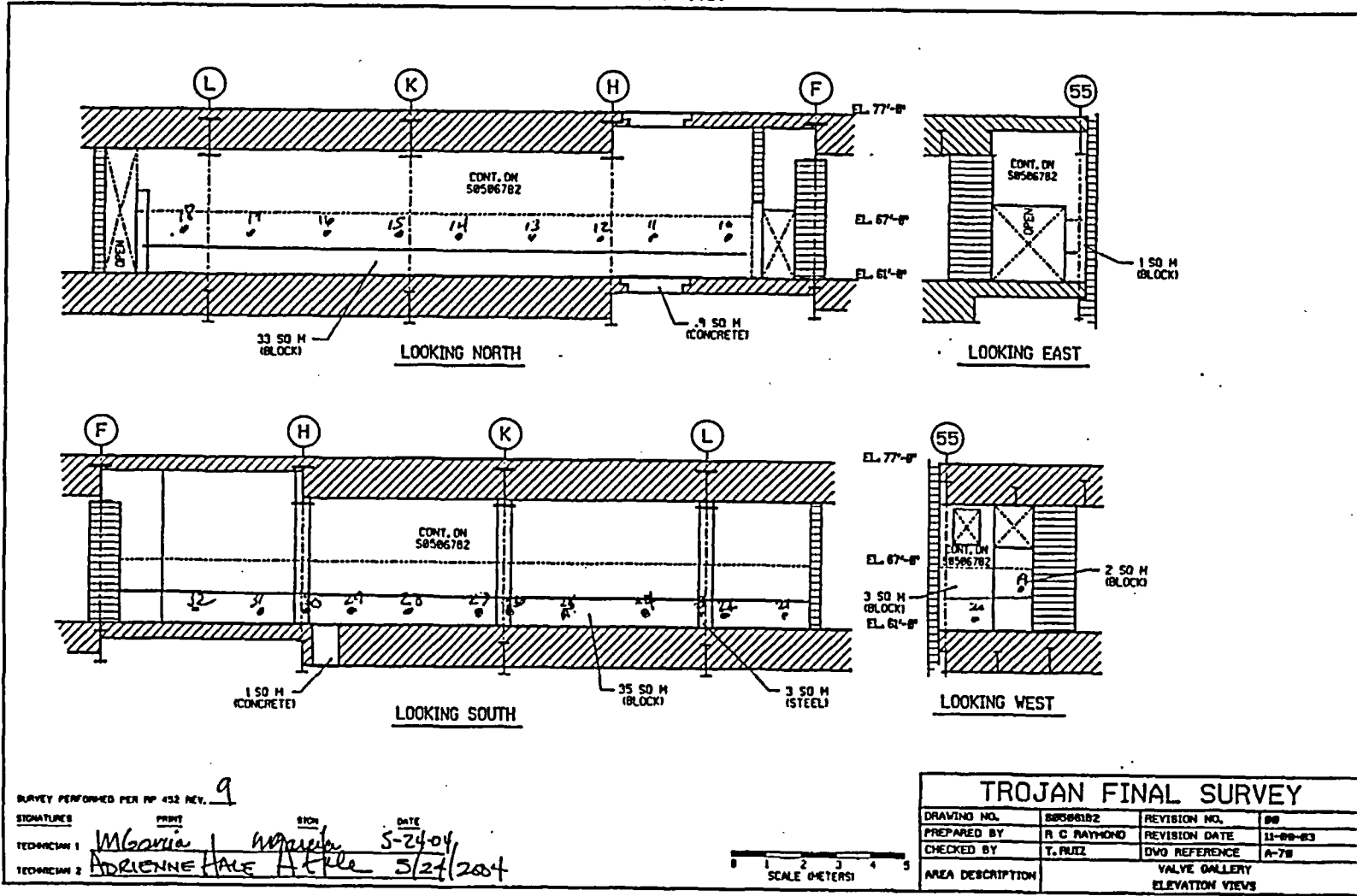
Survey Unit ID Code: S05061B

Survey Unit Name: AB 61' Elevation - Valve Gallery Floor and Lower Walls

Classification: Class 1

Size (m²): 123

Static Measurement Location Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05061C

Classification: Class 1

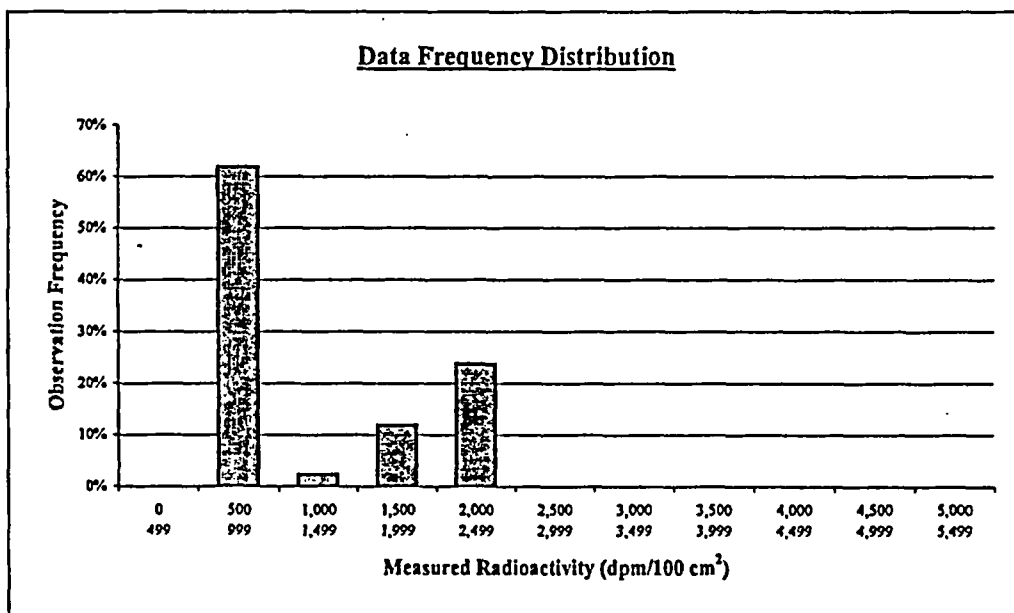
Survey Unit Name: AB 61' Elevation -

Size (m²): 254

Waste Gas Decay Tank Rooms Floor and Lower Walls

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | | Statistical Quantities | |
|--|------------------|---------------------|-------------------|------------------------|-------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? | Range: | 1,646 |
| Range | 1,646 | 3,082 | Pass | Median: | 864 |
| Median | 0.640 | 0.500 | See comment below | Mean: | 1,259 |
| Mean | 1,259 | 6,000 | Pass | Std Dev: | 616 |
| Std Dev | 616 | 1,500 | Pass | Minimum: | 618 |
| All data less than DCGL; Sign statistical test not required. | | | | Maximum: | 2,264 |
| | | | | DCGL: | 7,500 |



| Plot Parameters | | Interval | High End | Low End | Number of Observations | Observation Frequency |
|---------------------|-------|----------|----------|---------|------------------------|-----------------------|
| # of measurements: | 42 | 1 | 499 | 0 | 0 | 0% |
| # of intervals: | 11 | 2 | 999 | 500 | 26 | 62% |
| Interval increment: | 500 | 3 | 1,499 | 1,000 | 1 | 2% |
| Minimum: | 0 | 4 | 1,999 | 1,500 | 5 | 12% |
| Maximum: | 5,499 | 5 | 2,499 | 2,000 | 10 | 24% |
| | | 6 | 2,999 | 2,500 | 0 | 0% |
| | | 7 | 3,499 | 3,000 | 0 | 0% |
| | | 8 | 3,999 | 3,500 | 0 | 0% |
| | | 9 | 4,499 | 4,000 | 0 | 0% |
| | | 10 | 4,999 | 4,500 | 0 | 0% |
| | | 11 | 5,499 | 5,000 | 0 | 0% |
| | | Total: | | | 42 | 100% |

Comment:

The data set contains values from both smooth and scabbled concrete surfaces, resulting in an expected bimodal distribution, due to different detector efficiency factors for the 2 geometries.

The test failure does not represent an invalid data set.

This statistical comparison is not meaningful for an expected bimodal distribution. All measurement values are valid and accepted.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05061C **Classification:** Class 1
Survey Unit Name: AB 61' Elevation – **Size (m²):** 254
Waste Gas Decay Tank Rooms Floor and Lower Walls

Judgmental and Miscellaneous Data

Measurement Type: Surface Scanning Beta **Scan Coverage (%):** 100
Measurement Units: dpm/100cm² **Investigation Level:** 7,500
Minimum Value: 904 **Maximum Value:** 36,980

Measurement Type: Removable Beta **Number of Measurements:** 30
Measurement Units: dpm/100cm² **Investigation Level:** 750
Minimum Value: 6 **Maximum Value:** 83

Discussion of Anomalous Measurement Data

Investigation Summary

Reason for Investigation: Nine scan measurements exceeded the investigation level.

Elevated Measurement Comparison (EMC):

| | |
|---|------------------------|
| DCGL (Investigation Level): | 7,500 |
| Measurement Units: | dpm/100cm ² |
| Maximum Value: | 38,690 |
| Size of Area Exceeding DCGL (m²): | 0.305 |
| Size of Survey Unit (m²): | 254 |
| Survey Unit Area >DCGL (%): | 0.12 |
| EMC Value: | 37,500 |

Action Taken: Corrected measurement values for scan locations per guidance in memo FS-018-03; used similar method for elevated scan measurements obtained with a 43-68 gas flow proportional detector. Replaced original scan results in SDMS with the corrected results. Applied EMC data processing to corrected scan locations that remain elevated.

Basis for Action Taken: Technical basis memorandum FS-018-03 provides guidance for correcting SDMS determined scan results for locations that exceed the investigation level by subtracting instrument background from the field results.

FINAL SURVEY RESULTS SUMMARY

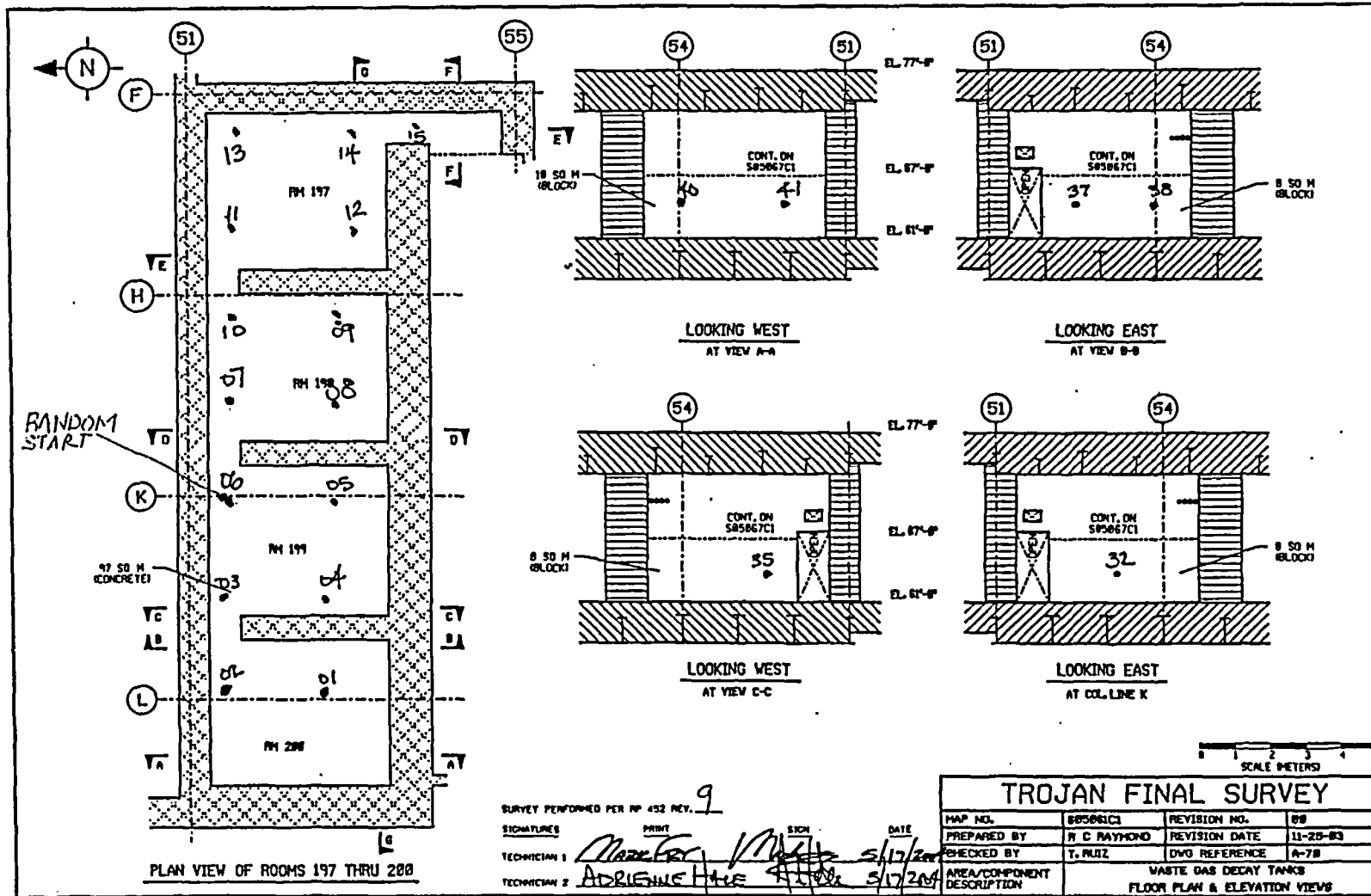
Survey Unit ID Code: S05061C

Survey Unit Name: AB 61' Elevation - Waste Gas Decay Tank Rooms Floor and Lower Walls

Classification: Class 1

Size (m²): 254

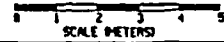
Static Measurement Location Map



PLAN VIEW OF ROOMS 197 THRU 200

SURVEY PERFORMED PER RP 452 REV. 9
 SIGNATURES: [Handwritten] PRINT: [Handwritten] SIGN: [Handwritten] DATE: 5/17/2003
 TECHNICIAN 1: [Handwritten] TECHNICIAN 2: [Handwritten]

| TROJAN FINAL SURVEY | | | |
|----------------------------|--|---------------|----------|
| MAP NO. | S05061C | REVISION NO. | 008 |
| PREPARED BY | R. C. RAYMOND | REVISION DATE | 11-25-03 |
| CHECKED BY | T. RUZZ | DWG REFERENCE | A-7B |
| AREA/COMPONENT DESCRIPTION | WASTE GAS DECAY TANKS FLOOR PLAN & ELEVATION VIEWS | | |



FINAL SURVEY RESULTS SUMMARY

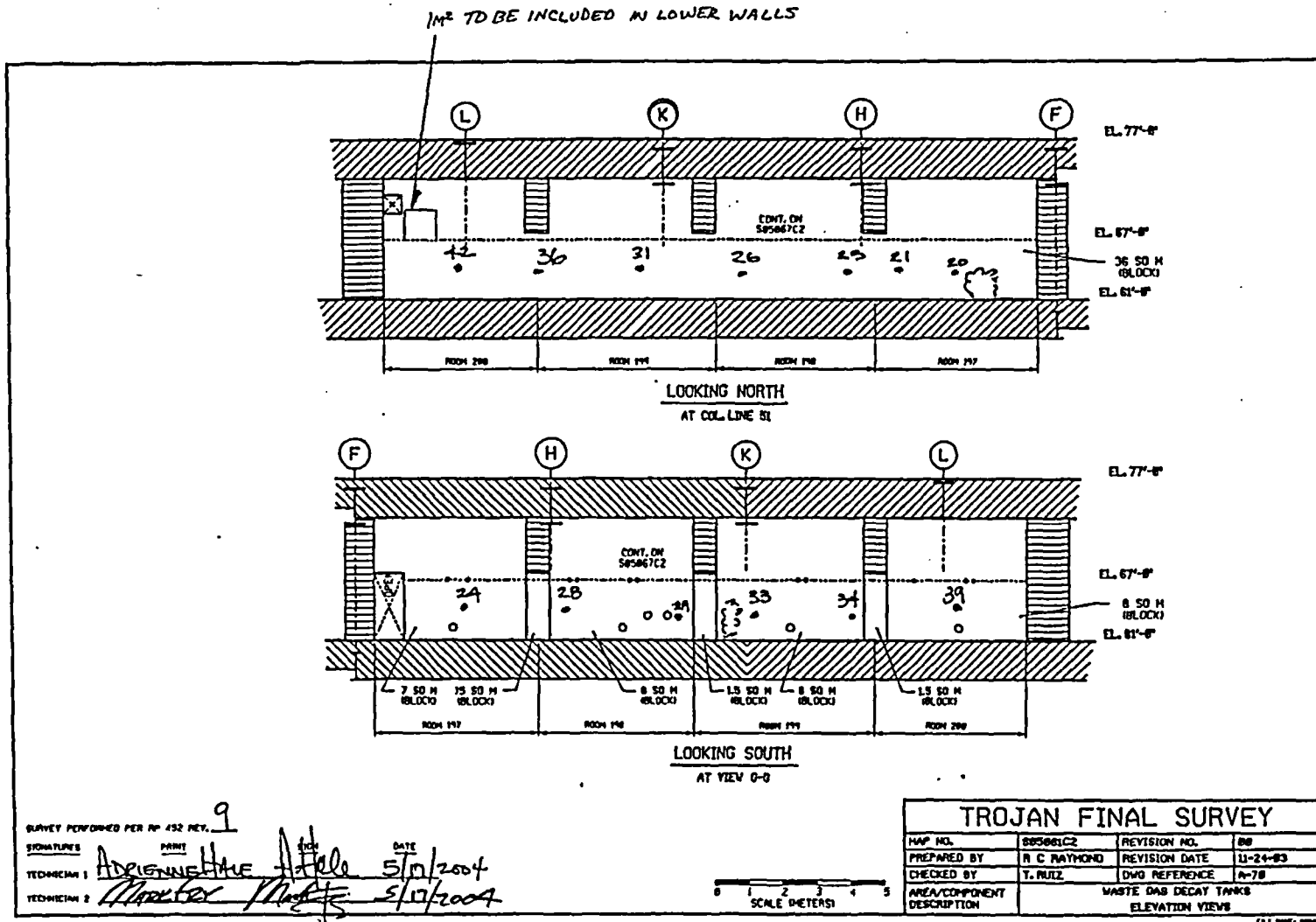
Survey Unit ID Code: S05061C

Survey Unit Name: AB 61' Elevation - Waste Gas Decay Tank Rooms Floor and Lower Walls

Classification: Class 1

Size (m²): 254

Static Measurement Location Map



FINAL SURVEY RESULTS SUMMARY

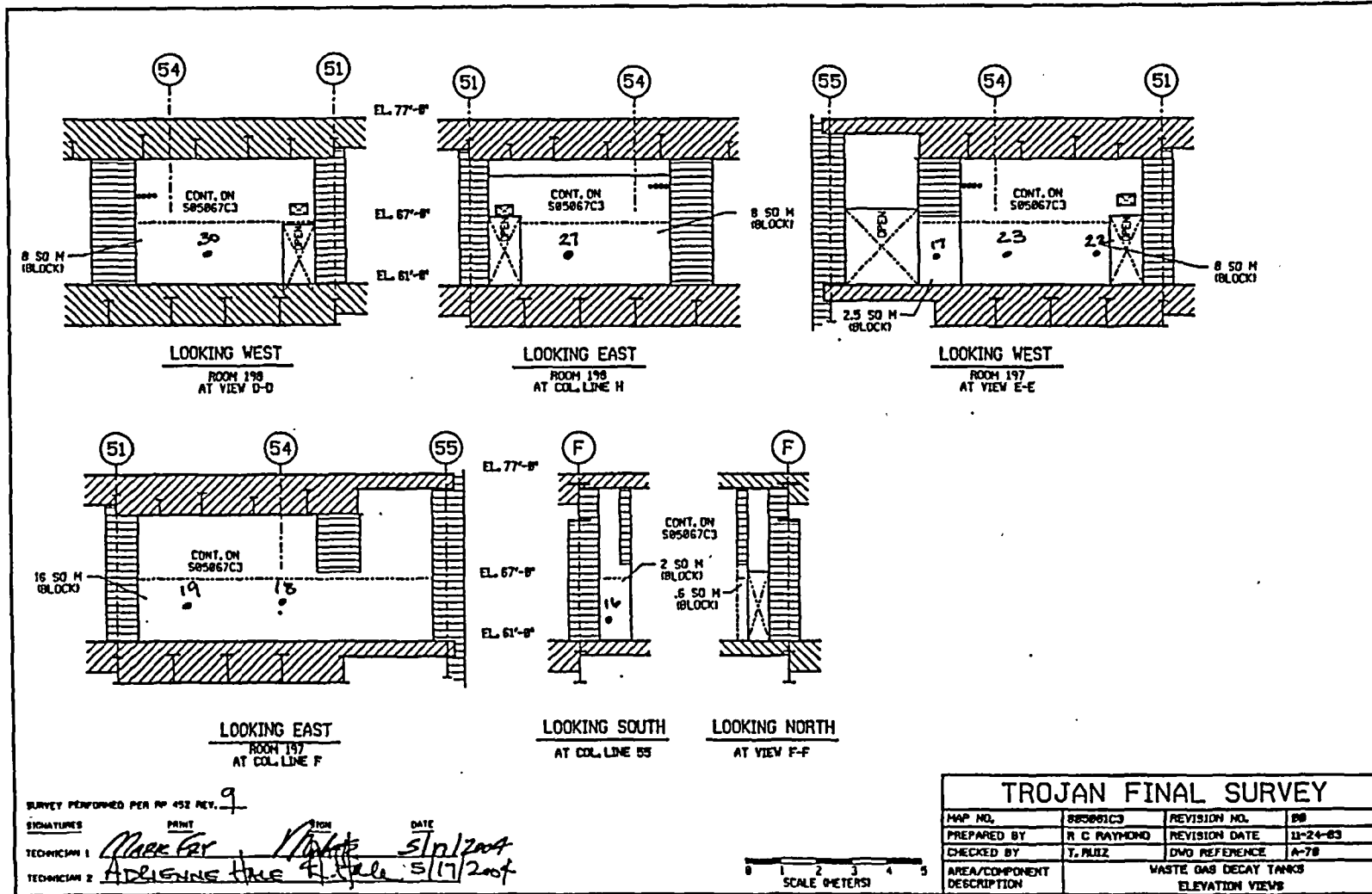
Survey Unit ID Code: S05061C

Survey Unit Name: AB 61' Elevation - Waste Gas Decay Tank Rooms Floor and Lower Walls

Classification: Class 1

Size (m²): 254

Static Measurement Location Map



SURVEY PERFORMED PER RP 452 REV. 9

SIGNATURES: *Mark Gay* (PRINT), *Mark Gay* (SIGN), DATE: *5/17/2004*

TECHNICIAN 1: *Mark Gay*

TECHNICIAN 2: *Adrienne Hulse*

| TROJAN FINAL SURVEY | | | |
|----------------------------|---------------------------------------|---------------|----------|
| MAP NO. | S05061C3 | REVISION NO. | 00 |
| PREPARED BY | R. C. RAYMOND | REVISION DATE | 11-24-83 |
| CHECKED BY | T. BLIZZ | DWG REFERENCE | A-78 |
| AREA/COMPONENT DESCRIPTION | WASTE GAS DECAY TANKS ELEVATION VIEWS | | |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05061D Classification: Class 1
 Survey Unit Name: AB 61' Elevation - Size (m²): 388
 Waste Gas Surge Tank and Radioactive Waste Evaporator Rooms

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|-----------------------|------------|-------------------------|------------|-----|-----|
| 1 | 55 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 4.339e+002
 Maximum Value : 2.195e+003
 Range : 1.761e+003
 Median : 7.974e+002
 Std. Deviation : 4.765e+002
 Mean : 9.800e+002
 95% UCL : 1.088e+003

Measurement Values

| Location | Value | Location | Value | Location | Value |
|----------|------------|----------|------------|----------|------------|
| 000001 | 8.493e+002 | 000018 | 1.072e+003 | 000035 | 1.718e+003 |
| 000002 | 7.788e+002 | 000019 | 1.020e+003 | 000036 | 1.786e+003 |
| 000003 | 7.121e+002 | 000020 | 9.976e+002 | 000037 | 1.705e+003 |
| 000004 | 9.642e+002 | 000021 | 6.119e+002 | 000038 | 1.631e+003 |
| 000005 | 8.048e+002 | 000022 | 1.105e+003 | 000039 | 1.730e+003 |
| 000006 | 7.232e+002 | 000023 | 1.083e+003 | 000040 | 1.941e+003 |
| 000007 | 6.787e+002 | 000024 | 8.530e+002 | 000041 | 1.531e+003 |
| 000008 | 8.048e+002 | 000025 | 7.974e+002 | 000042 | 2.133e+003 |
| 000009 | 5.637e+002 | 000026 | 7.454e+002 | 000043 | 2.195e+003 |
| 000010 | 4.599e+002 | 000027 | 7.195e+002 | 000044 | 2.059e+003 |
| 000011 | 7.974e+002 | 000028 | 6.898e+002 | 000045 | 1.997e+003 |
| 000012 | 8.382e+002 | 000029 | 8.530e+002 | 000046 | 8.889e+002 |
| 000013 | 7.417e+002 | 000030 | 7.380e+002 | 000047 | 6.204e+002 |
| 000014 | 4.339e+002 | 000031 | 7.603e+002 | 000048 | 5.370e+002 |
| 000015 | 7.640e+002 | 000032 | 6.490e+002 | 000049 | 7.593e+002 |
| 000016 | 9.605e+002 | 000033 | 5.971e+002 | 000050 | 7.407e+002 |
| 000017 | 1.076e+003 | 000034 | 6.008e+002 | 000051 | 6.204e+002 |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05061D

Classification: Class 1

Survey Unit Name: AB 61' Elevation -

Size (m²): 388

Waste Gas Surge Tank and Radioactive Waste Evaporator Rooms

Data Quality Values

| <u>Location</u> | <u>Value</u> |
|-----------------|--------------|
| 000052 | 6.296e+002 |
| 000053 | 5.278e+002 |
| 000054 | 6.019e+002 |
| 000055 | 7.037e+002 |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05061D

Classification: Class 1

Survey Unit Name: AB 61' Elevation -

Size (m²): 388

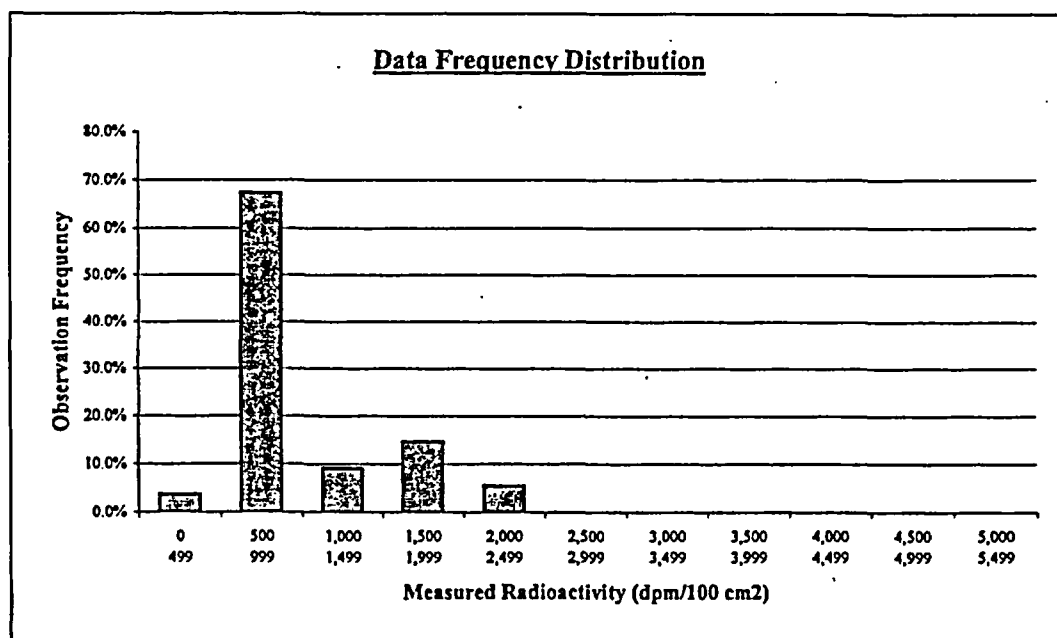
Waste Gas Surge Tank and Radioactive Waste Evaporator Rooms

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | |
|-------------------------|------------------|---------------------|-------------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? |
| Range | 1,761 | 2,383 | Pass |
| Median | 0.383 | 0.500 | Pass |
| Mean | 980 | 6,000 | Pass |
| Std Dev | 477 | 1,500 | Pass |

| Statistical Quantities | |
|------------------------|-------|
| Range: | 1,761 |
| Median: | 797 |
| Mean: | 980 |
| Std Dev: | 477 |
| Minimum: | 434 |
| Maximum: | 2,195 |
| DCGL: | 7,500 |

All data less than DCGL; Sign statistical test not required.



| Plot Parameters | |
|---------------------|-------|
| # of measurements: | 55 |
| # of intervals: | 11 |
| Interval increment: | 500 |
| Minimum: | 0 |
| Maximum: | 5,499 |

| Interval | High End | Low End | Number of Observations | Observation Frequency |
|----------|----------|---------|------------------------|-----------------------|
| 1 | 499 | 0 | 2 | 3.6% |
| 2 | 999 | 500 | 37 | 67.3% |
| 3 | 1,499 | 1,000 | 5 | 9.1% |
| 4 | 1,999 | 1,500 | 8 | 14.5% |
| 5 | 2,499 | 2,000 | 3 | 5.5% |
| 6 | 2,999 | 2,500 | 0 | 0.0% |
| 7 | 3,499 | 3,000 | 0 | 0.0% |
| 8 | 3,999 | 3,500 | 0 | 0.0% |
| 9 | 4,499 | 4,000 | 0 | 0.0% |
| 10 | 4,999 | 4,500 | 0 | 0.0% |
| 11 | 5,499 | 5,000 | 0 | 0.0% |
| Total: | | | 55 | 100% |

Comment:

None.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05061D **Classification:** Class 1
Survey Unit Name: AB 61' Elevation – **Size (m²):** 388
Waste Gas Surge Tank and Radioactive Waste Evaporator Rooms

Judgmental and Miscellaneous Data

Measurement Type: Surface Scanning Beta **Scan Coverage (%):** 100
Measurement Units: dpm/100cm² **Investigation Level:** 7,500
Minimum Value: 764 **Maximum Value:** 16,660

Measurement Type: Removable Beta **Number of Measurements:** 30
Measurement Units: dpm/100cm² **Investigation Level:** 750
Minimum Value: 46 **Maximum Value:** 94

Discussion of Anomalous Measurement Data

Investigation Summary

Reason for Investigation: Six scan measurements exceeded the investigation level.

Elevated Measurement Comparison (EMC):

| | |
|---|------------------------|
| DCGL (Investigation Level): | 7,500 |
| Measurement Units: | dpm/100cm ² |
| Maximum Value: | 18,140 |
| Size of Area Exceeding DCGL (m²): | 0.545 |
| Size of Survey Unit (m²): | 388 |
| Survey Unit Area >DCGL (%): | 0.14 |
| EMC Value: | 36,750 |

Action Taken: Corrected measurement values for scan locations per guidance in memo FS-018-03; used similar method for elevated scan measurements obtained with a 43-68 gas flow proportional detector. Replaced original scan results in SDMS with the corrected results. Applied EMC data processing to corrected scan location 058 that remains elevated.

Basis for Action Taken: Technical basis memorandum FS-018-03 provides guidance for correcting SDMS determined scan results for locations that exceed the investigation level by subtracting instrument background from the field results.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05061D

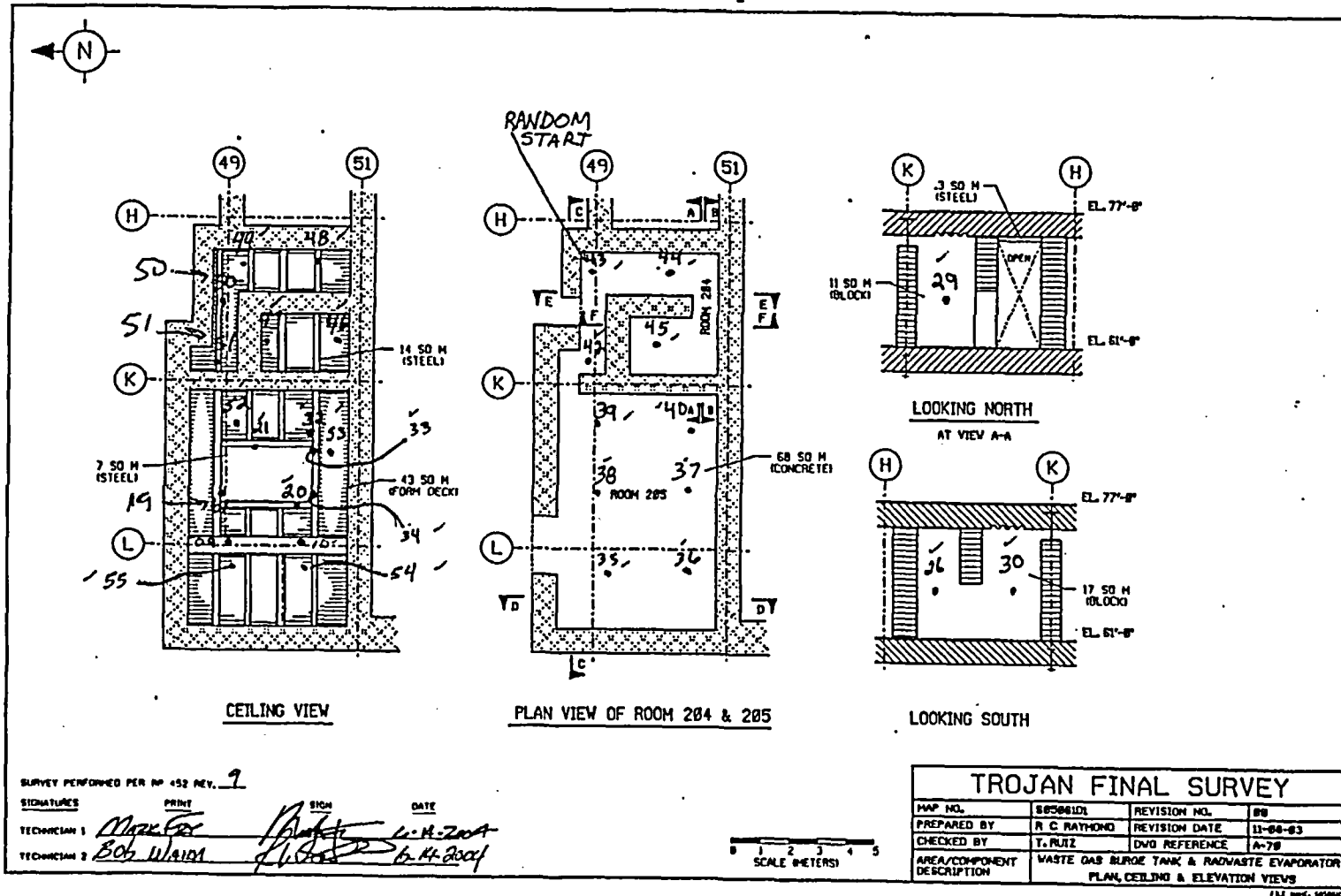
Survey Unit Name: AB 61' Elevation -

Waste Gas Surge Tank and Radioactive Waste Evaporator Rooms

Classification: Class 1

Size (m²): 388

Static Measurement Location Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05061D

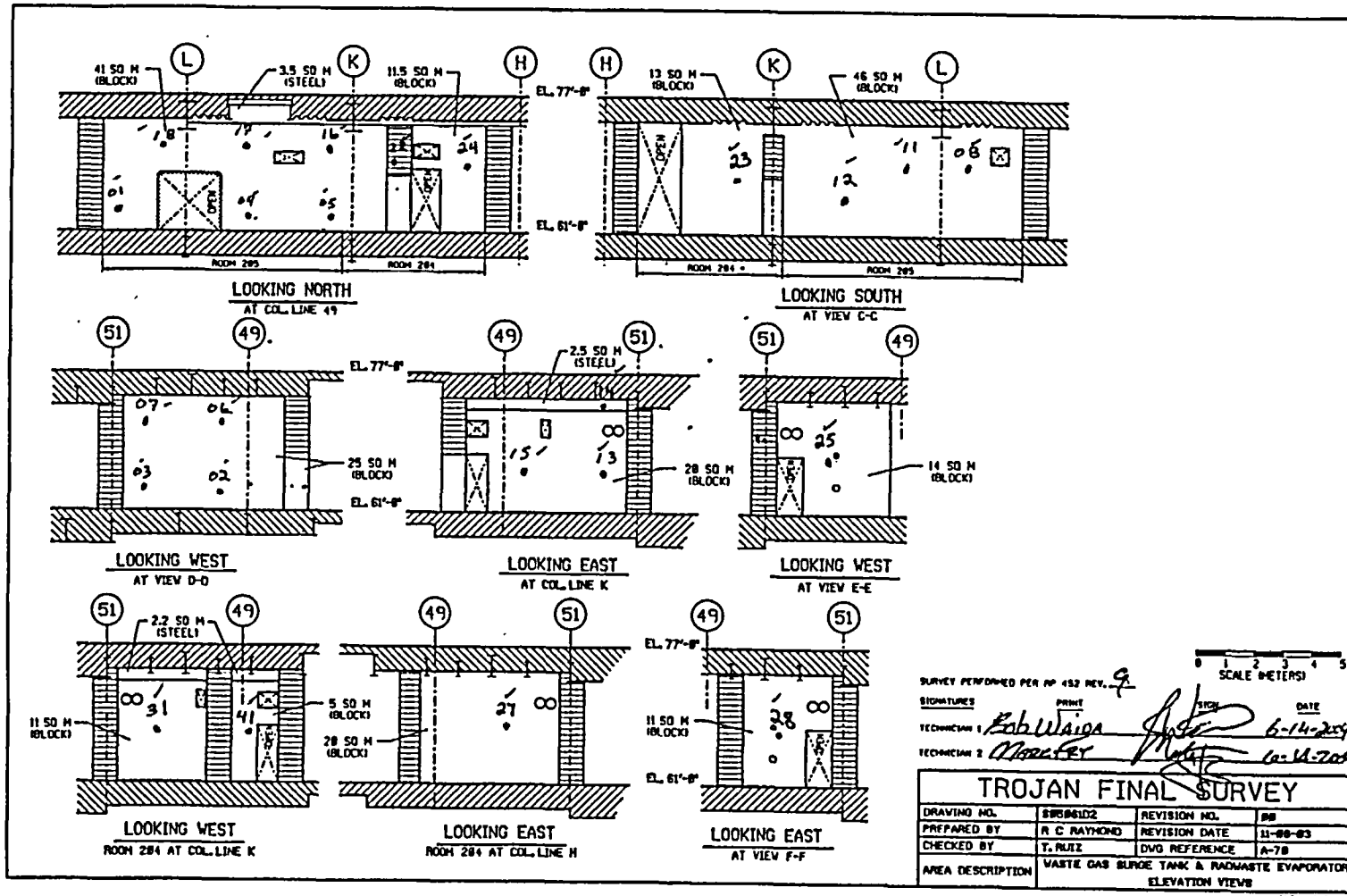
Survey Unit Name: AB 61' Elevation -

Waste Gas Surge Tank and Radioactive Waste Evaporator Rooms

Classification: Class 1

Size (m²): 388

Static Measurement Location Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05061E

Classification: Class 1

Survey Unit Name: AB 61' Elevation -

Size (m²): 121

Waste Gas Compressor Rooms Floors and Lower Walls

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|-----------------------|------------|-------------------------|------------|-----|-----|
| 1 | 32 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 7.037e+002
 Maximum Value : 2.485e+003
 Range : 1.781e+003
 Median : 8.796e+002
 Std. Deviation : 7.491e+002
 Mean : 1.399e+003
 95% UCL : 1.623e+003

Measurement Values

| Location | Value | Location | Value |
|----------|------------|----------|------------|
| 000001 | 2.413e+003 | 000018 | 8.679e+002 |
| 000002 | 2.186e+003 | 000019 | 8.327e+002 |
| 000003 | 2.329e+003 | 000020 | 8.406e+002 |
| 000004 | 2.394e+003 | 000021 | 9.305e+002 |
| 000005 | 2.147e+003 | 000022 | 7.311e+002 |
| 000006 | 2.413e+003 | 000023 | 9.227e+002 |
| 000007 | 2.381e+003 | 000024 | 8.679e+002 |
| 000008 | 2.466e+003 | 000025 | 8.914e+002 |
| 000009 | 2.485e+003 | 000026 | 7.976e+002 |
| 000010 | 2.466e+003 | 000027 | 9.618e+002 |
| 000011 | 2.225e+003 | 000028 | 8.015e+002 |
| 000012 | 2.218e+003 | 000029 | 8.015e+002 |
| 000013 | 7.858e+002 | 000030 | 8.601e+002 |
| 000014 | 7.115e+002 | 000031 | 7.976e+002 |
| 000015 | 7.037e+002 | 000032 | 8.249e+002 |
| 000016 | 8.640e+002 | | |
| 000017 | 8.367e+002 | | |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05061E

Classification: Class 1

Survey Unit Name: AB 61' Elevation –

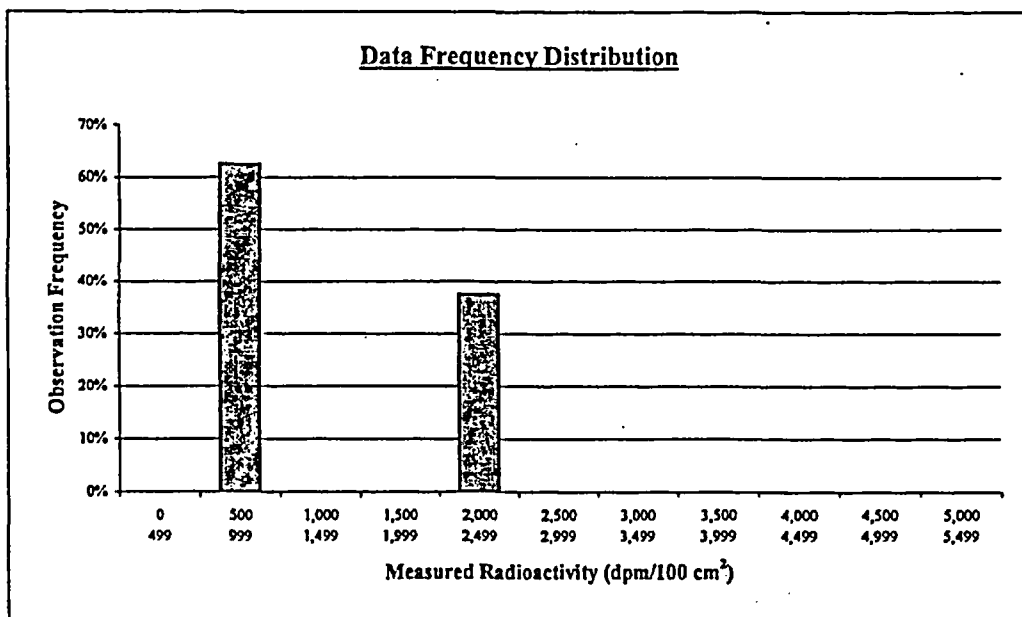
Size (m²): 121

Waste Gas Compressor Rooms Floors and Lower Walls

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | | Statistical Quantities | |
|-------------------------|------------------|---------------------|-------------------|------------------------|-------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? | Range: | 1,781 |
| Range | 1,781 | 3,745 | Pass | Median: | 880 |
| Median | 0.693 | 0.500 | See comment below | Mean: | 1,399 |
| Mean | 1,399 | 6,000 | Pass | Std Dev: | 749 |
| Std Dev | 749 | 1,500 | Pass | Minimum: | 704 |
| | | | | Maximum: | 2,485 |
| | | | | DCGL: | 7,500 |

All data less than DCGL; Sign statistical test not required.



| Plot Parameters | | Interval | High End | Low End | Number of Observations | Observation Frequency |
|---------------------|-------|----------|----------|---------|------------------------|-----------------------|
| # of measurements: | 32 | 1 | 499 | 0 | 0 | 0% |
| # of intervals: | 11 | 2 | 999 | 500 | 20 | 63% |
| Interval increment: | 500 | 3 | 1,499 | 1,000 | 0 | 0% |
| Minimum: | 0 | 4 | 1,999 | 1,500 | 0 | 0% |
| Maximum: | 5,499 | 5 | 2,499 | 2,000 | 12 | 38% |
| | | 6 | 2,999 | 2,500 | 0 | 0% |
| | | 7 | 3,499 | 3,000 | 0 | 0% |
| | | 8 | 3,999 | 3,500 | 0 | 0% |
| | | 9 | 4,499 | 4,000 | 0 | 0% |
| | | 10 | 4,999 | 4,500 | 0 | 0% |
| | | 11 | 5,499 | 5,000 | 0 | 0% |
| | | Total: | | | 32 | 100% |

Comment:

The data set contains values from both smooth and scabbled concrete surfaces, resulting in an expected bimodal distribution, due to different detector efficiency factors for the 2 geometries.

The test failure does not represent an invalid data set.

This statistical comparison is not meaningful for an expected bimodal distribution. All measurement values are valid and accepted.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05061E **Classification:** Class 1
Survey Unit Name: AB 61' Elevation – **Size (m²):** 121
Waste Gas Compressor Rooms Floors and Lower Walls

Judgmental and Miscellaneous Data

Measurement Type: Surface Scanning Beta **Scan Coverage (%):** 100
Measurement Units: dpm/100cm² **Investigation Level:** 7,500
Minimum Value: 943 **Maximum Value:** 7,271

Measurement Type: Removable Beta **Number of Measurements:** 32
Measurement Units: dpm/100cm² **Investigation Level:** 750
Minimum Value: 43 **Maximum Value:** 92

Discussion of Anomalous Measurement Data

Investigation Summary

No investigation required for this survey unit. No anomalous measurement data.

FINAL SURVEY RESULTS SUMMARY

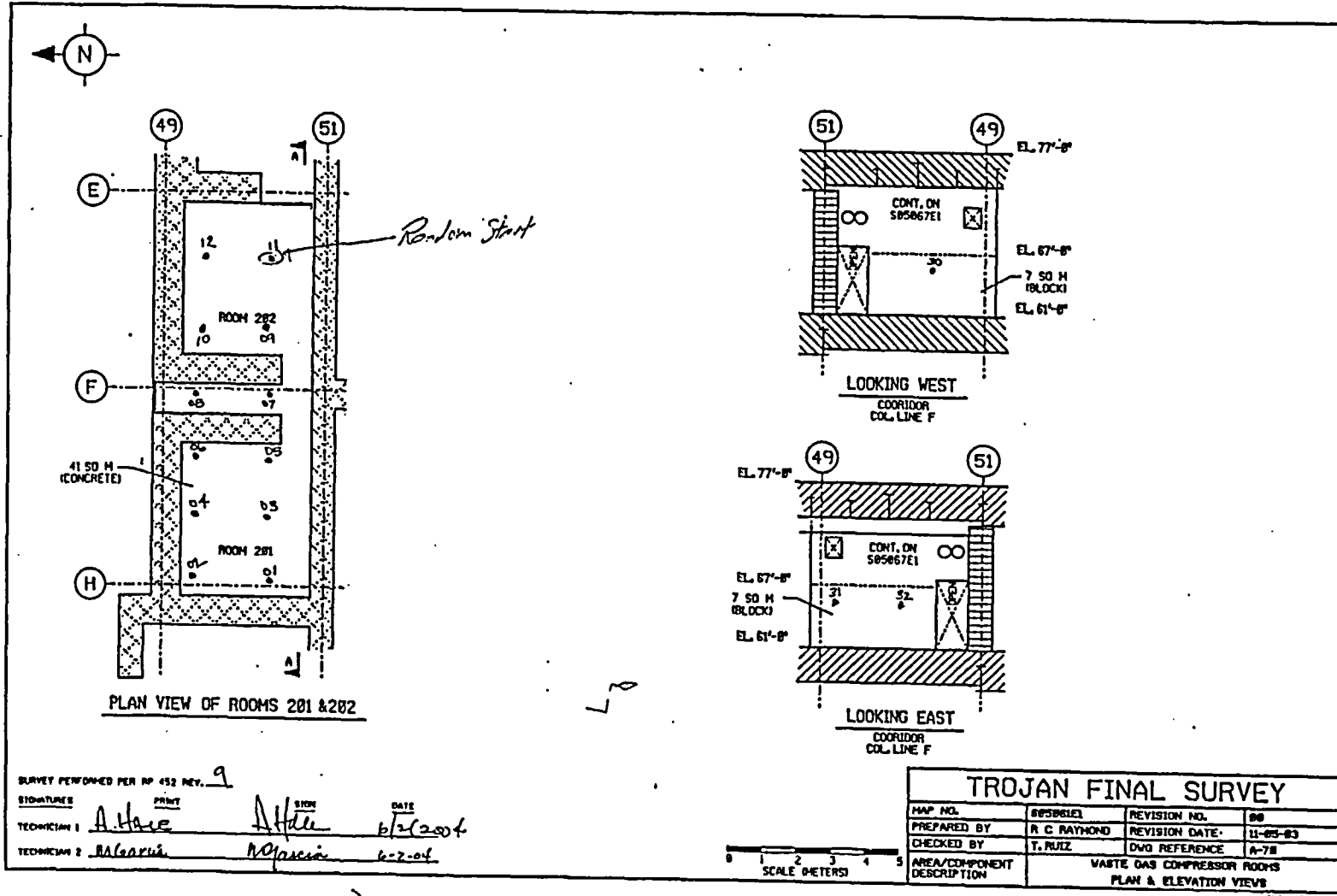
Survey Unit ID Code: S05061E

Survey Unit Name: AB 61' Elevation - Waste Gas Compressor Rooms Floors and Lower Walls

Classification: Class 1

Size (m²): 121

Static Measurement Location Map



FINAL SURVEY RESULTS SUMMARY

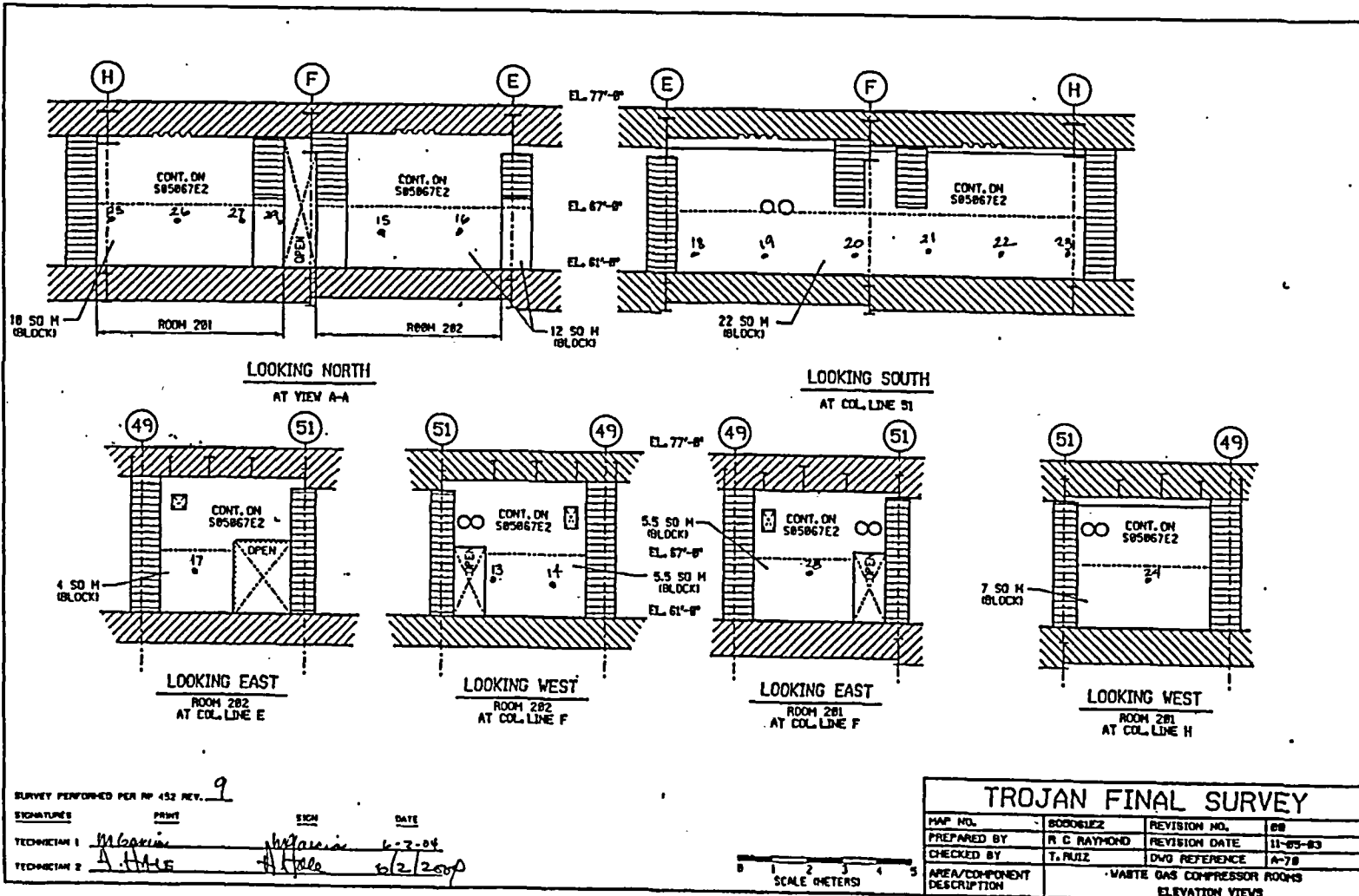
Survey Unit ID Code: S05061E

Survey Unit Name: AB 61' Elevation - Waste Gas Compressor Rooms Floors and Lower Walls

Classification: Class 1

Size (m²): 121

Static Measurement Location Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05061F
 Survey Unit Name: AB 61' Elevation -
 Spent Resin Storage Tank Room

Classification: Class 1
 Size (m²): 95

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|-----------------------|------------|-------------------------|------------|-----|-----|
| 1 | 32 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 7.752e+002
 Maximum Value : 2.455e+003
 Range : 1.680e+003
 Median : 1.910e+003
 Std. Deviation : 3.941e+002
 Mean : 1.807e+003
 95% UCL : 1.925e+003

Measurement Values

| Location | Value | Location | Value |
|----------|------------|----------|------------|
| 000001 | 2.092e+003 | 000018 | 1.784e+003 |
| 000002 | 2.141e+003 | 000019 | 1.975e+003 |
| 000003 | 2.455e+003 | 000020 | 1.987e+003 |
| 000004 | 2.098e+003 | 000021 | 1.077e+003 |
| 000005 | 2.190e+003 | 000022 | 1.544e+003 |
| 000006 | 2.190e+003 | 000023 | 1.538e+003 |
| 000007 | 2.110e+003 | 000024 | 1.458e+003 |
| 000008 | 2.338e+003 | 000025 | 1.606e+003 |
| 000009 | 1.870e+003 | 000026 | 1.569e+003 |
| 000010 | 1.723e+003 | 000027 | 1.840e+003 |
| 000011 | 1.969e+003 | 000028 | 1.169e+003 |
| 000012 | 1.827e+003 | 000029 | 1.046e+003 |
| 000013 | 1.944e+003 | 000030 | 1.876e+003 |
| 000014 | 2.067e+003 | 000031 | 7.752e+002 |
| 000015 | 2.030e+003 | 000032 | 1.452e+003 |
| 000016 | 1.944e+003 | | |
| 000017 | 2.153e+003 | | |

FINAL SURVEY RESULTS SUMMARY

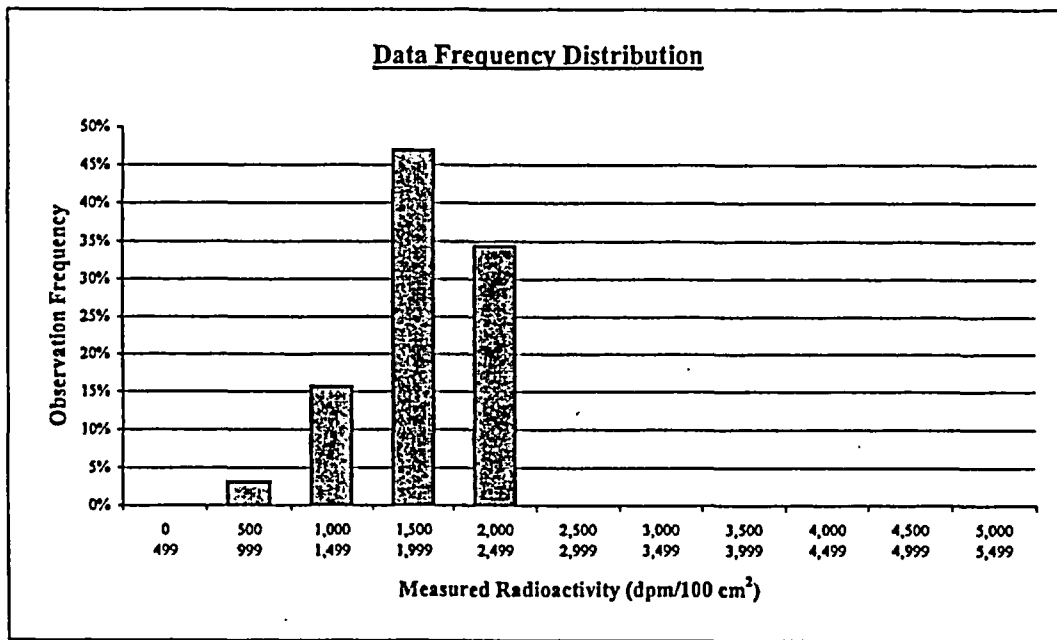
Survey Unit ID Code: S05061F
 Survey Unit Name: AB 61' Elevation -
 Spent Resin Storage Tank Room

Classification: Class 1
 Size (m²): 95

Measurement Data Statistical Evaluation

| <u>Statistical Comparisons</u> | | | | <u>Statistical Quantities</u> | |
|--------------------------------|------------------|---------------------|-------------|-------------------------------|-------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? | | |
| Range | 1,680 | 1,970 | Pass | Range: | 1,680 |
| Median | 0.260 | 0.500 | Pass | Median: | 1,910 |
| Mean | 1,807 | 6,000 | Pass | Mean: | 1,807 |
| Std Dev | 394 | 1,500 | Pass | Std Dev: | 394 |
| | | | | Minimum: | 775 |
| | | | | Maximum: | 2,455 |
| | | | | DCGL: | 7,500 |

All data less than DCGL; Sign statistical test not required.



| <u>Plot Parameters</u> | |
|------------------------|-------|
| # of measurements: | 32 |
| # of intervals: | 11 |
| Interval increment: | 500 |
| Minimum: | 0 |
| Maximum: | 5,499 |

Comment:
None.

| Interval | High End | Low End | Number of Observations | Observation Frequency |
|---------------|----------|---------|------------------------|-----------------------|
| 1 | 499 | 0 | 0 | 0% |
| 2 | 999 | 500 | 1 | 3% |
| 3 | 1,499 | 1,000 | 5 | 16% |
| 4 | 1,999 | 1,500 | 15 | 47% |
| 5 | 2,499 | 2,000 | 11 | 34% |
| 6 | 2,999 | 2,500 | 0 | 0% |
| 7 | 3,499 | 3,000 | 0 | 0% |
| 8 | 3,999 | 3,500 | 0 | 0% |
| 9 | 4,499 | 4,000 | 0 | 0% |
| 10 | 4,999 | 4,500 | 0 | 0% |
| 11 | 5,499 | 5,000 | 0 | 0% |
| Total: | | | 32 | 100% |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05061F
Survey Unit Name: AB 61' Elevation –
Spent Resin Storage Tank Room

Classification: Class 1
Size (m²): 95

Judgmental and Miscellaneous Data

Measurement Type: Surface Scanning Beta
Measurement Units: dpm/100cm²
Minimum Value: 532

Scan Coverage (%): 100
Investigation Level: 7,500
Maximum Value: 7,444

Measurement Type: Removable Beta
Measurement Units: dpm/100cm²
Minimum Value: 46

Number of Measurements: 32
Investigation Level: 750
Maximum Value: 82

Discussion of Anomalous Measurement Data

Investigation Summary

Reason for Investigation: Twelve scan measurements exceeded the investigation level.

Elevated Measurement Comparison (EMC):

| | |
|---|------------------------|
| DCGL (Investigation Level): | 7,500 |
| Measurement Units: | dpm/100cm ² |
| Maximum Value: | 10,090 |
| Size of Area Exceeding DCGL (m²): | N/A |
| Size of Survey Unit (m²): | N/A |
| Survey Unit Area >DCGL (%): | N/A |
| EMC Value: | N/A |

Action Taken: Corrected measurement values for scan locations per guidance in memo FS-018-03; used similar method for elevated scan measurements obtained with a 43-68 gas flow proportional detector. Replaced original scan results in SDMS with these results, all of which corrected to less than the investigation level.

Basis for Action Taken: Technical basis memorandum FS-018-03 provides guidance for correcting SDMS determined scan results for locations that exceed the investigation level by subtracting instrument background from the field results.

FINAL SURVEY RESULTS SUMMARY

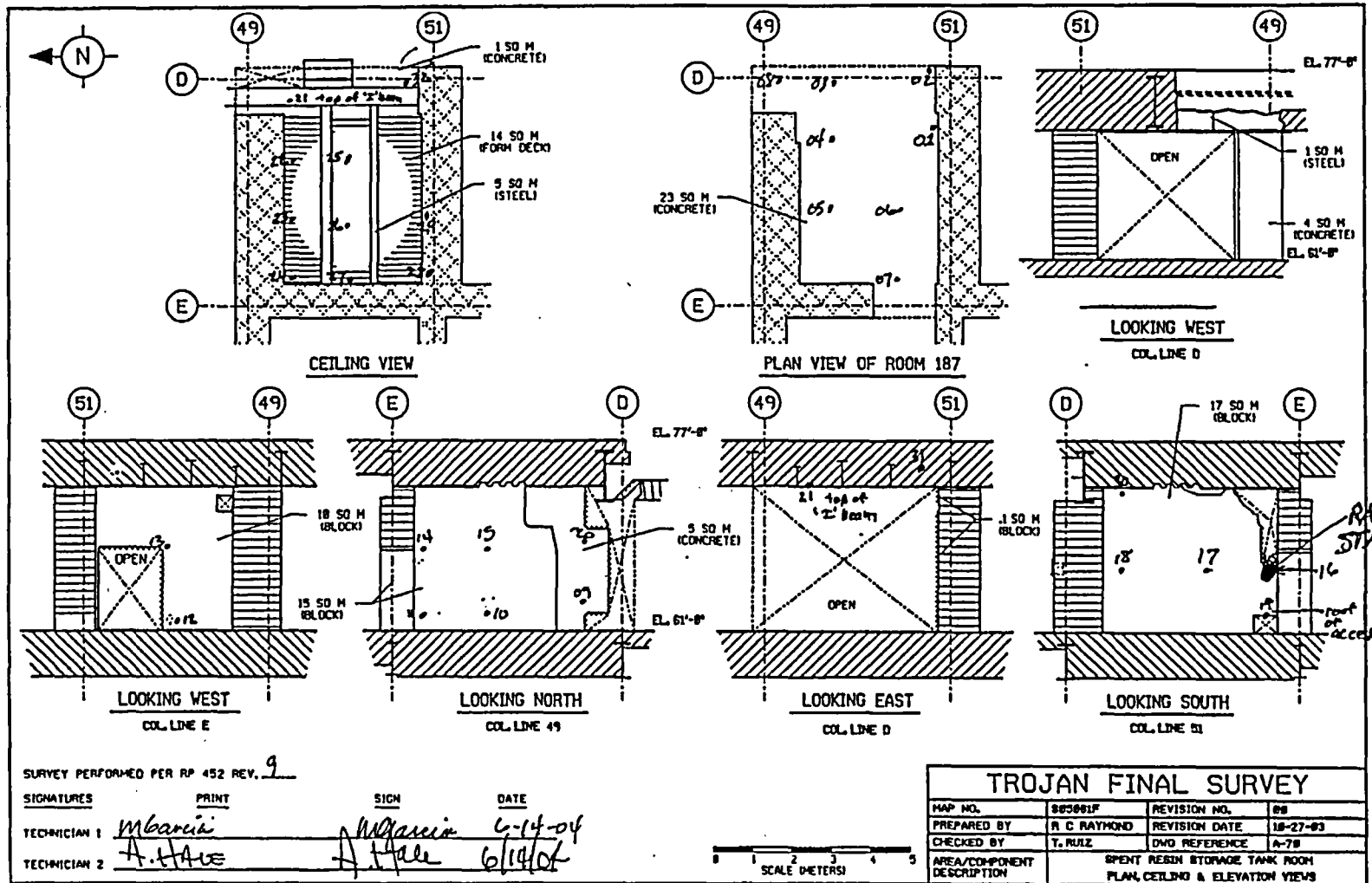
Survey Unit ID Code: S05061F

Survey Unit Name: AB 61' Elevation - Spent Resin Storage Tank Room

Classification: Class 1

Size (m²): 95

Static Measurement Location Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05061G
 Survey Unit Name: AB 61' Elevation -
 Spent Resin Storage Tank Pump Room

Classification: Class 1
 Size (m²): 102

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|-----------------------|------------|-------------------------|------------|-----|-----|
| 1 | 30 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 9.976e+002
 Maximum Value : 4.591e+003
 Range : 3.593e+003
 Median : 2.566e+003
 Std. Deviation : 7.419e+002
 Mean : 2.481e+003
 95% UCL : 2.711e+003

Measurement Values

| Location | Value | Location | Value |
|----------|------------|----------|------------|
| 000001 | 2.536e+003 | 000018 | 4.591e+003 |
| 000002 | 2.747e+003 | 000019 | 3.453e+003 |
| 000003 | 2.716e+003 | 000020 | 3.204e+003 |
| 000004 | 2.381e+003 | 000021 | 2.833e+003 |
| 000005 | 2.319e+003 | 000022 | 2.696e+003 |
| 000006 | 2.276e+003 | 000023 | 2.570e+003 |
| 000007 | 2.561e+003 | 000024 | 2.273e+003 |
| 000008 | 2.759e+003 | 000025 | 2.333e+003 |
| 000009 | 2.710e+003 | 000026 | 1.839e+003 |
| 000010 | 9.976e+002 | 000027 | 2.874e+003 |
| 000011 | 1.205e+003 | 000028 | 2.908e+003 |
| 000012 | 1.565e+003 | 000029 | 2.852e+003 |
| 000013 | 1.346e+003 | 000030 | 2.704e+003 |
| 000014 | 1.495e+003 | | |
| 000015 | 1.791e+003 | | |
| 000016 | 2.359e+003 | | |
| 000017 | 3.531e+003 | | |

FINAL SURVEY RESULTS SUMMARY

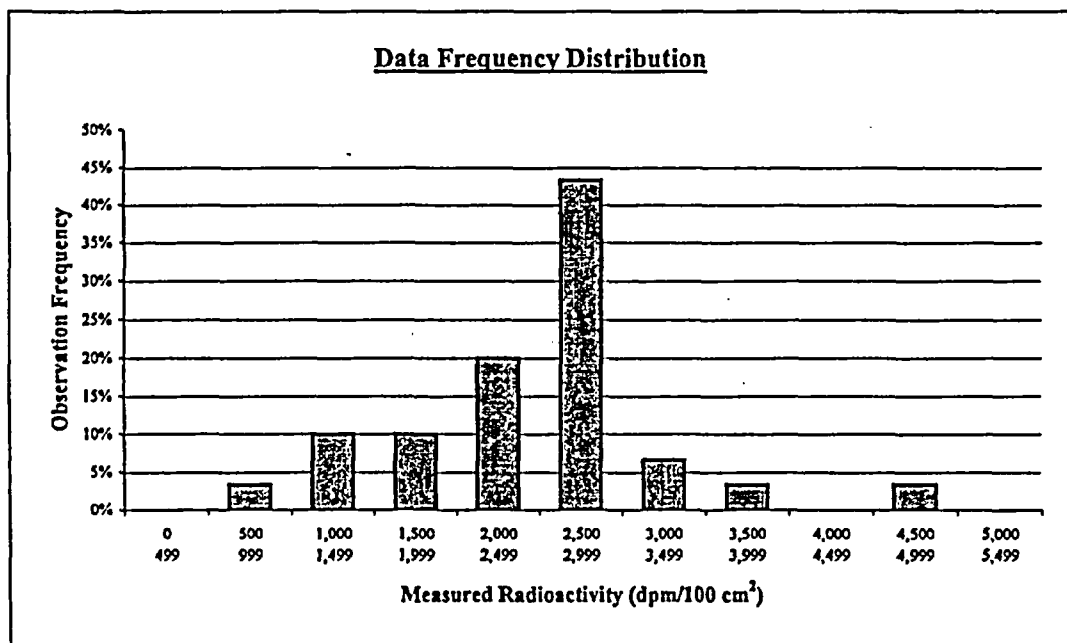
Survey Unit ID Code: S05061G
 Survey Unit Name: AB 61' Elevation -
 Spent Resin Storage Tank Pump Room

Classification: Class 1
 Size (m²): 102

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | | Statistical Quantities | |
|-------------------------|------------------|---------------------|-------------|------------------------|-------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? | Range: | 3,593 |
| Range | 3,593 | 3,710 | Pass | Median: | 2,566 |
| Median | 0.114 | 0.500 | Pass | Mean: | 2,481 |
| Mean | 2,481 | 6,000 | Pass | Std Dev: | 742 |
| Std Dev | 742 | 1,500 | Pass | Minimum: | 998 |
| | | | | Maximum: | 4,591 |
| | | | | DCGL: | 7,500 |

All data less than DCGL; Sign statistical test not required.



| Plot Parameters | Interval | High End | Low End | Number of Observations | Observation Frequency |
|-------------------------|---------------|----------|---------|------------------------|-----------------------|
| # of measurements: 30 | 1 | 499 | 0 | 0 | 0% |
| # of intervals: 11 | 2 | 999 | 500 | 1 | 3% |
| Interval increment: 500 | 3 | 1,499 | 1,000 | 3 | 10% |
| Minimum: 0 | 4 | 1,999 | 1,500 | 3 | 10% |
| Maximum: 5,499 | 5 | 2,499 | 2,000 | 6 | 20% |
| | 6 | 2,999 | 2,500 | 13 | 43% |
| | 7 | 3,499 | 3,000 | 2 | 7% |
| | 8 | 3,999 | 3,500 | 1 | 3% |
| | 9 | 4,499 | 4,000 | 0 | 0% |
| | 10 | 4,999 | 4,500 | 1 | 3% |
| | 11 | 5,499 | 5,000 | 0 | 0% |
| | Total: | | | 30 | 100% |

Comment:
None.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05061G **Classification:** Class 1
Survey Unit Name: AB 61' Elevation – **Size (m²):** 102
Spent Resin Storage Tank Pump Room

Judgmental and Miscellaneous Data

Measurement Type: Surface Scanning Beta **Scan Coverage (%):** 100
Measurement Units: dpm/100cm² **Investigation Level:** 7,500
Minimum Value: 914 **Maximum Value:** 11,670

Measurement Type: Removable Beta **Number of Measurements:** 30
Measurement Units: dpm/100cm² **Investigation Level:** 750
Minimum Value: 43 **Maximum Value:** 88

Discussion of Anomalous Measurement Data

Investigation Summary

Reason for Investigation: Four scan measurements exceeded the investigation level.

Elevated Measurement Comparison (EMC):

| | |
|---|------------------------|
| DCGL (Investigation Level): | 7,500 |
| Measurement Units: | dpm/100cm ² |
| Maximum Value: | 55,190 |
| Size of Area Exceeding DCGL (m²): | 0.01 |
| Size of Survey Unit (m²): | 102 |
| Survey Unit Area >DCGL (%): | 0.01 |
| EMC Value: | 36,750 |

Action Taken: Corrected measurement values for scan locations per guidance in memo FS-018-03. Replaced original scan results in SDMS with the corrected results. Applied EMC data processing to corrected scan locations 005 & 015 that remain elevated.

Basis for Action Taken: Technical basis memorandum FS-018-03 provides guidance for correcting SDMS determined scan results for locations that exceed the investigation level by subtracting instrument background from the field results.

FINAL SURVEY RESULTS SUMMARY

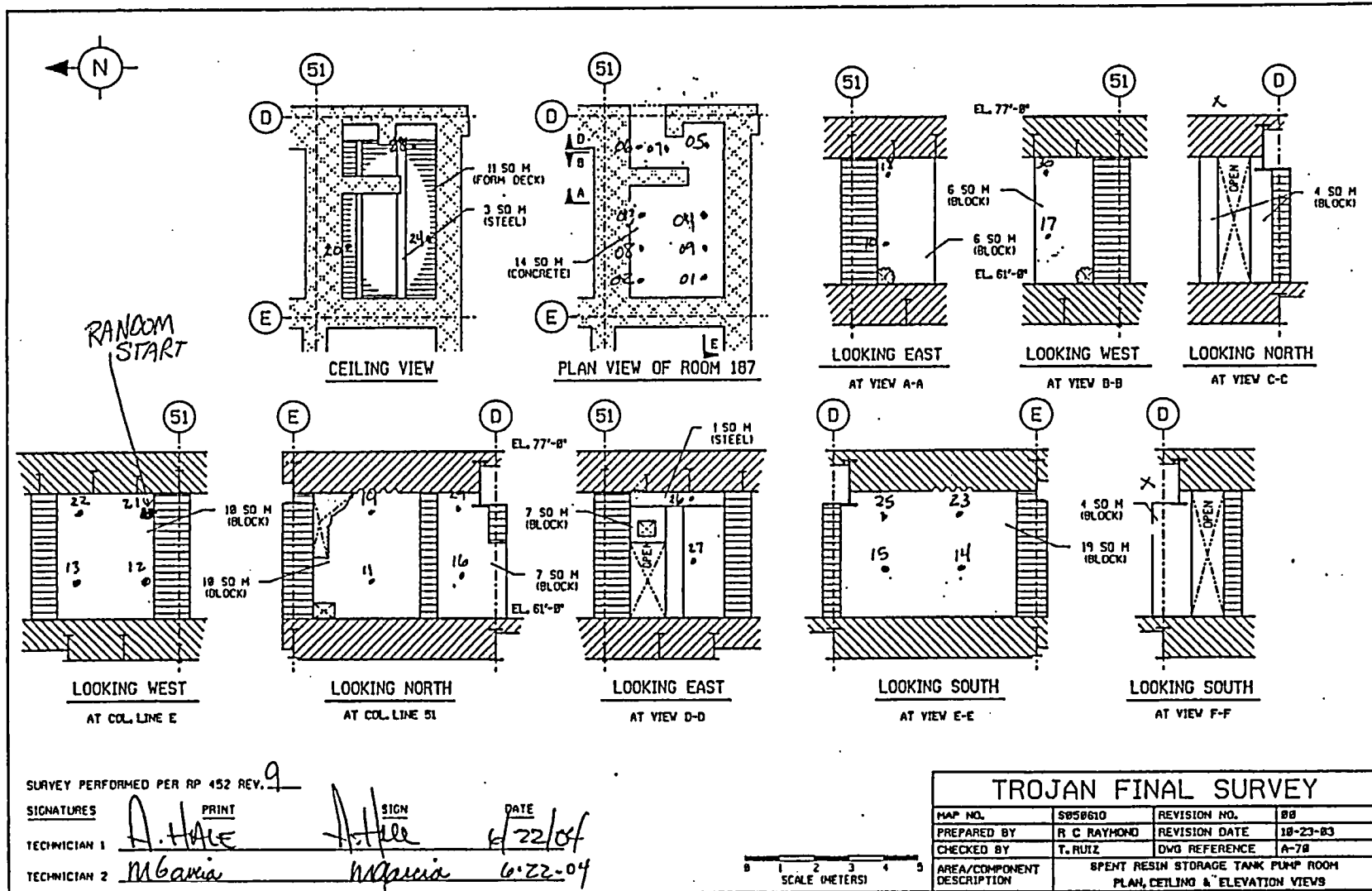
Survey Unit ID Code: S05061G

Survey Unit Name: AB 61' Elevation - Spent Resin Storage Tank Pump Room

Classification: Class 1

Size (m²): 102

Static Measurement Location Map



SURVEY PERFORMED PER RP 452 REV. 9

SIGNATURES
 TECHNICIAN 1: *A. Hale* (PRINT), *A. Hale* (SIGN), DATE: 6/22/04
 TECHNICIAN 2: *M. Garcia* (PRINT), *M. Garcia* (SIGN), DATE: 6.22.04

| TROJAN FINAL SURVEY | | | |
|----------------------------|---|---------------|----------|
| MAP NO. | S050610 | REVISION NO. | 88 |
| PREPARED BY | R. C. RAYMOND | REVISION DATE | 18-23-83 |
| CHECKED BY | T. RUTZ | DWG REFERENCE | A-78 |
| AREA/COMPONENT DESCRIPTION | SPENT RESIN STORAGE TANK PUMP ROOM PLAN, CEILING & ELEVATION VIEWS | | |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05061H Classification: Class 1
 Survey Unit Name: AB 61' Elevation - Size (m²): 345
 Letdown Heat Exchanger Room and Adjacent Pipeway Area

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|-----------------------|------------|-------------------------|------------|-----|-----|
| 1 | 65 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 4.339e+002
 Maximum Value : 3.259e+003
 Range : 2.825e+003
 Median : 8.678e+002
 Std. Deviation : 6.425e+002
 Mean : 1.129e+003
 95% UCL : 1.262e+003

Measurement Values

| Location | Value | Location | Value | Location | Value |
|----------|------------|----------|------------|----------|------------|
| 000001 | 7.232e+002 | 000018 | 8.678e+002 | 000035 | 5.452e+002 |
| 000002 | 9.865e+002 | 000019 | 9.754e+002 | 000036 | 6.527e+002 |
| 000003 | 9.383e+002 | 000020 | 6.193e+002 | 000037 | 7.751e+002 |
| 000004 | 6.193e+002 | 000021 | 8.567e+002 | 000038 | 8.789e+002 |
| 000005 | 8.122e+002 | 000022 | 7.084e+002 | 000039 | 8.344e+002 |
| 000006 | 8.085e+002 | 000023 | 1.250e+003 | 000040 | 8.344e+002 |
| 000007 | 1.064e+003 | 000024 | 6.453e+002 | 000041 | 9.680e+002 |
| 000008 | 4.339e+002 | 000025 | 6.008e+002 | 000042 | 1.621e+003 |
| 000009 | 5.934e+002 | 000026 | 1.317e+003 | 000043 | 9.642e+002 |
| 000010 | 2.092e+003 | 000027 | 8.233e+002 | 000044 | 1.165e+003 |
| 000011 | 5.155e+002 | 000028 | 7.195e+002 | 000045 | 9.160e+002 |
| 000012 | 8.567e+002 | 000029 | 1.098e+003 | 000046 | 1.031e+003 |
| 000013 | 5.192e+002 | 000030 | 9.049e+002 | 000047 | 6.082e+002 |
| 000014 | 6.972e+002 | 000031 | 7.009e+002 | 000048 | 8.901e+002 |
| 000015 | 7.677e+002 | 000032 | 7.937e+002 | 000049 | 8.604e+002 |
| 000016 | 7.937e+002 | 000033 | 1.050e+003 | 000050 | 1.057e+003 |
| 000017 | 7.343e+002 | 000034 | 7.380e+002 | 000051 | 8.493e+002 |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05061H

Classification: Class 1

Survey Unit Name: AB 61' Elevation -

Size (m²): 345

Letdown Heat Exchanger Room and Adjacent Pipeway Area

Data Quality Values

| Location | Value |
|----------|------------|
| 000052 | 7.084e+002 |
| 000053 | 8.864e+002 |
| 000054 | 1.420e+003 |
| 000055 | 2.186e+003 |
| 000056 | 2.101e+003 |
| 000057 | 2.309e+003 |
| 000058 | 2.440e+003 |
| 000059 | 3.259e+003 |
| 000060 | 2.615e+003 |
| 000061 | 2.394e+003 |
| 000062 | 2.147e+003 |
| 000063 | 2.361e+003 |
| 000064 | 2.225e+003 |
| 000065 | 2.283e+003 |

FINAL SURVEY RESULTS SUMMARY

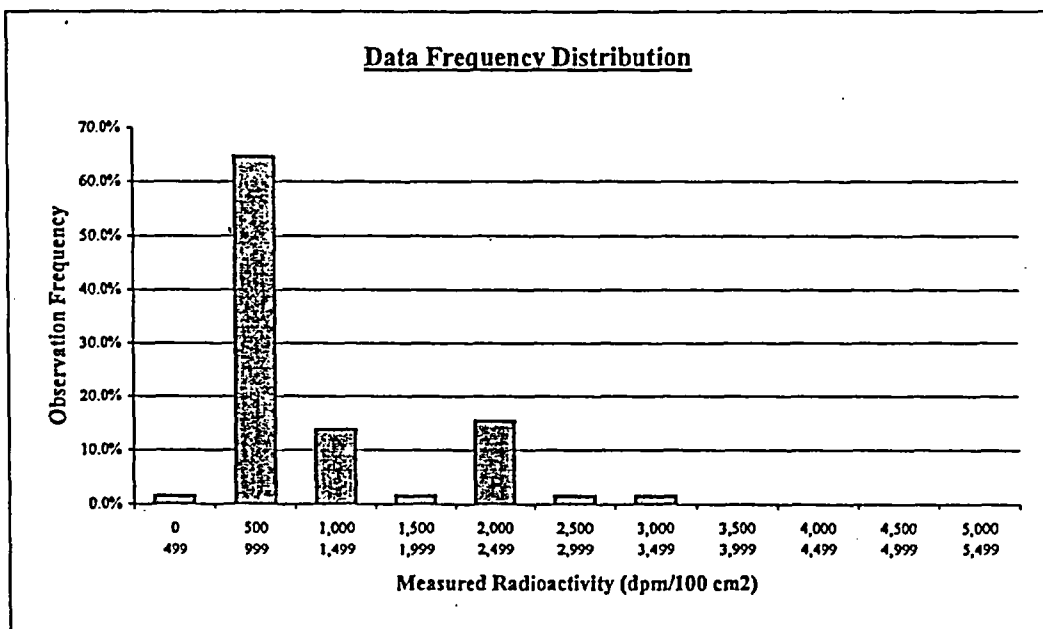
Survey Unit ID Code: S05061H
 Survey Unit Name: AB 61' Elevation –
 Letdown Heat Exchanger Room and Adjacent Pipeway Area

Classification: Class 1
 Size (m²): 345

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | | Statistical Quantities | |
|-------------------------|------------------|---------------------|-------------|------------------------|-------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? | | |
| Range | 2,825 | 3,212 | Pass | Range: | 2,825 |
| Median | 0.407 | 0.500 | Pass | Median: | 868 |
| Mean | 1,129 | 6,000 | Pass | Mean: | 1,129 |
| Std Dev | 642 | 1,500 | Pass | Std Dev: | 642 |
| | | | | Minimum: | 434 |
| | | | | Maximum: | 3,259 |
| | | | | DCGL: | 7,500 |

All data less than DCGL; Sign statistical test not required.



| Plot Parameters | | Interval | High End | Low End | Number of Observations | Observation Frequency |
|---------------------|-------|----------|----------|---------|------------------------|-----------------------|
| # of measurements: | 65 | 1 | 499 | 0 | 1 | 1.5% |
| # of intervals: | 11 | 2 | 999 | 500 | 42 | 64.6% |
| Interval increment: | 500 | 3 | 1,499 | 1,000 | 9 | 13.8% |
| Minimum: | 0 | 4 | 1,999 | 1,500 | 1 | 1.5% |
| Maximum: | 5,499 | 5 | 2,499 | 2,000 | 10 | 15.4% |
| | | 6 | 2,999 | 2,500 | 1 | 1.5% |
| | | 7 | 3,499 | 3,000 | 1 | 1.5% |
| | | 8 | 3,999 | 3,500 | 0 | 0.0% |
| | | 9 | 4,499 | 4,000 | 0 | 0.0% |
| | | 10 | 4,999 | 4,500 | 0 | 0.0% |
| | | 11 | 5,499 | 5,000 | 0 | 0.0% |
| | | Total: | | | 65 | 100% |

Comment:
None.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05061H **Classification:** Class 1
Survey Unit Name: AB 61' Elevation – **Size (m²):** 345
 Letdown Heat Exchanger Room and Adjacent Pipeway Area

Judgmental and Miscellaneous Data

| | |
|--|-----------------------------------|
| Measurement Type: Surface Scanning Beta | Scan Coverage (%): 100 |
| Measurement Units: dpm/100cm ² | Investigation Level: 7,500 |
| Minimum Value: 729 | Maximum Value: 14,720 |

| | |
|--|-----------------------------------|
| Measurement Type: Removable Beta | Number of Measurements: 65 |
| Measurement Units: dpm/100cm ² | Investigation Level: 750 |
| Minimum Value: 49 | Maximum Value: 105 |

Discussion of Anomalous Measurement Data

Investigation Summary

Reason for Investigation: Twenty-one scan measurements exceeded the investigation level.

Elevated Measurement Comparison (EMC):

| | |
|---|------------------------|
| DCGL (Investigation Level): | 7,500 |
| Measurement Units: | dpm/100cm ² |
| Maximum Value: | 207,400 |
| Size of Area Exceeding DCGL (m²): | 0.17 |
| Size of Survey Unit (m²): | 345 |
| Survey Unit Area >DCGL (%): | 0.05 |
| EMC Value: | 36,750 |

Action Taken: Corrected measurement values for scan locations per guidance in memo FS-018-03; used similar method for measurements for scan locations obtained with a 43-68 gas flow proportional detector. Deleted scan results for scan locations 011 & 012 to be remediated. Replaced original scan results in SDMS with the corrected results for the others. Rescanned remediated areas. Applied EMC data processing to corrected results for scan locations 013, 041, & 204 that remain elevated.

Basis for Action Taken: Technical basis memorandum FS-018-03 provides guidance for correcting SDMS determined scan results for locations that exceed the investigation level by subtracting instrument background from the field results.

FINAL SURVEY RESULTS SUMMARY

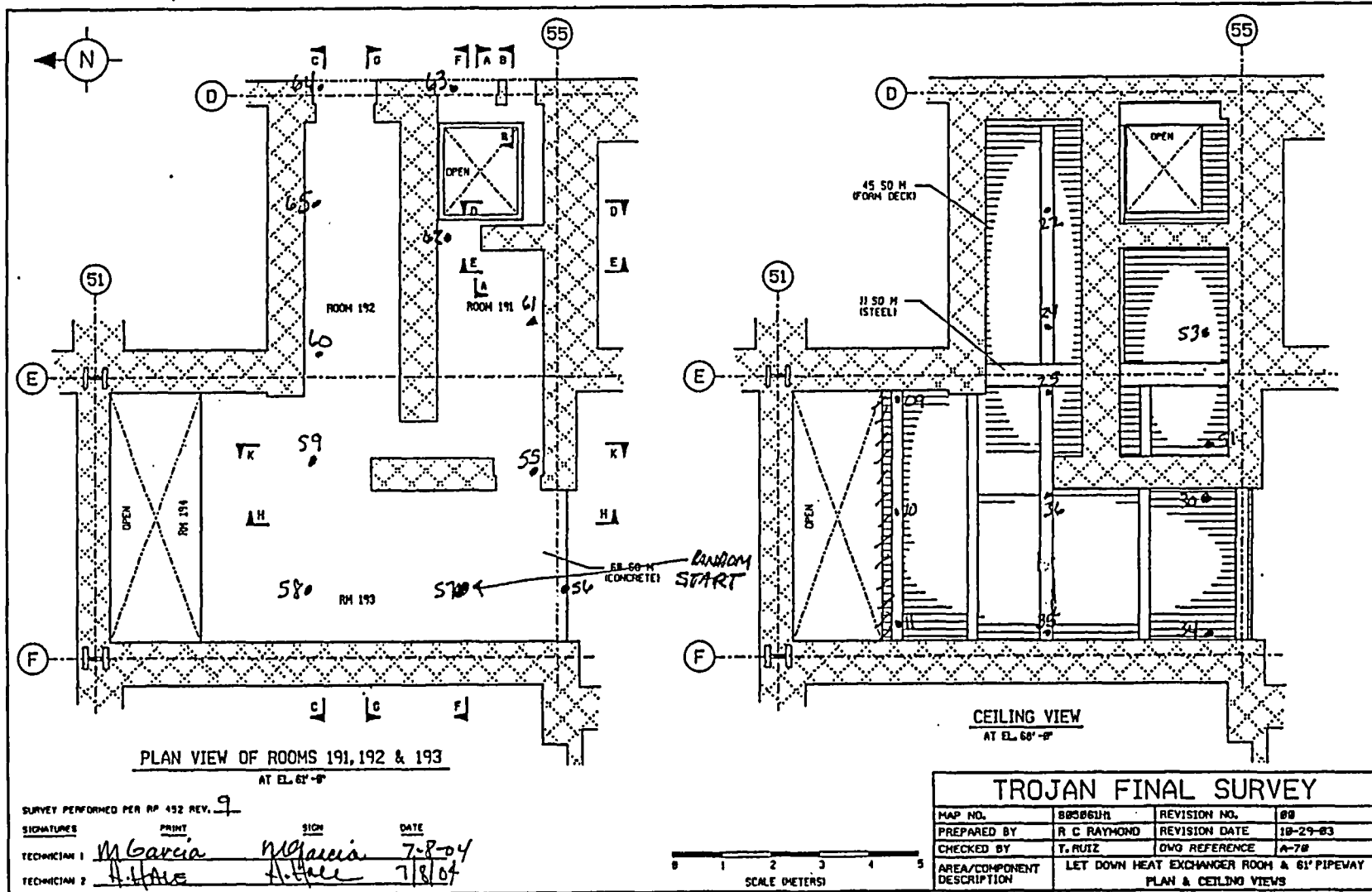
Survey Unit ID Code: S045061H

Classification: Class 1

Survey Unit Name: AB 61' Elevation - Letdown Heat Exchanger Room and Adjacent Pipeway Area

Size (m²): 345

Static Measurement Location Map



FINAL SURVEY RESULTS SUMMARY

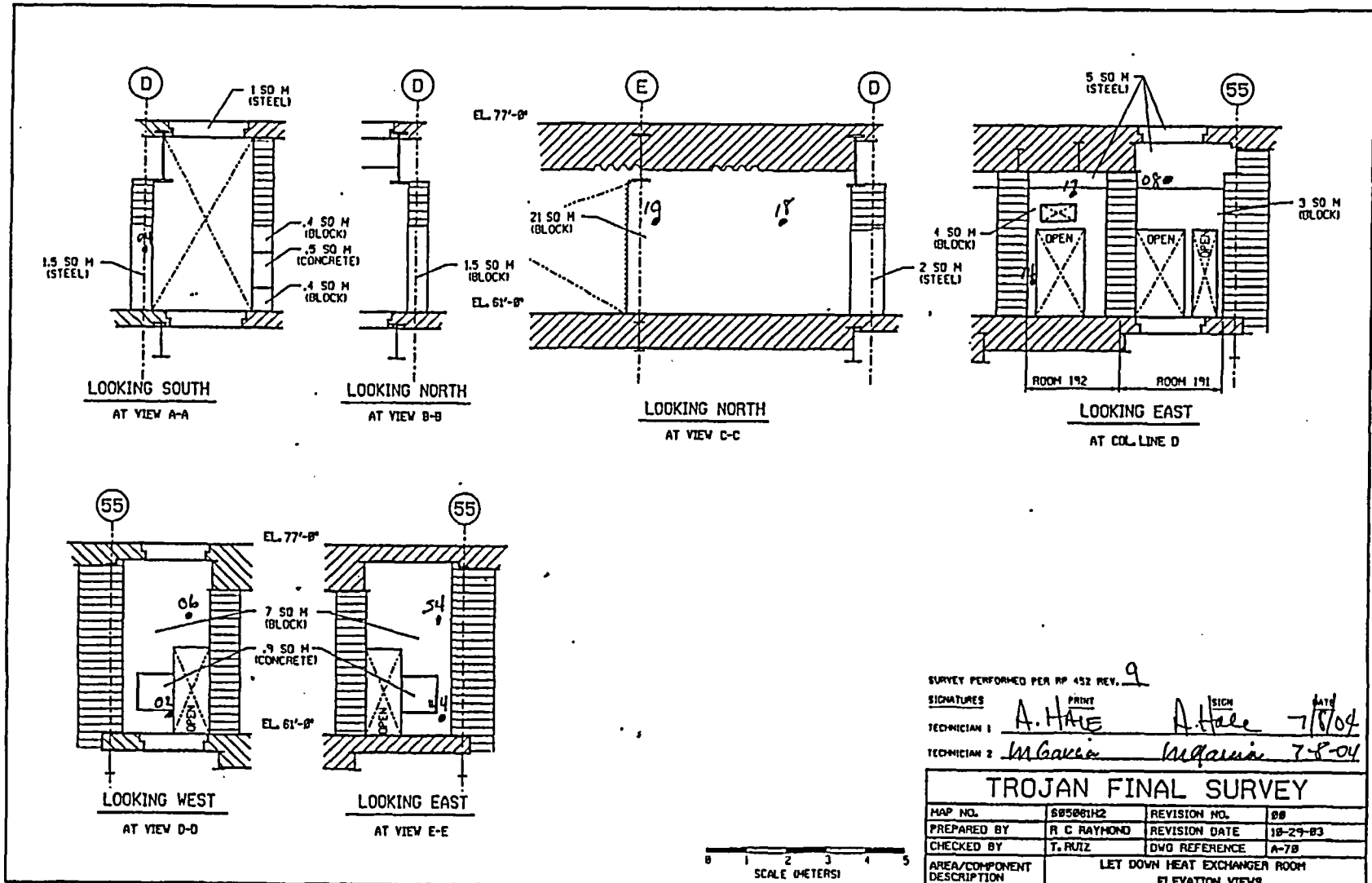
Survey Unit ID Code: S045061H

Classification: Class 1

Survey Unit Name: AB 61' Elevation - Letdown Heat Exchanger Room and Adjacent Pipeway Area

Size (m²): 345

Static Measurement Location Map



FINAL SURVEY RESULTS SUMMARY

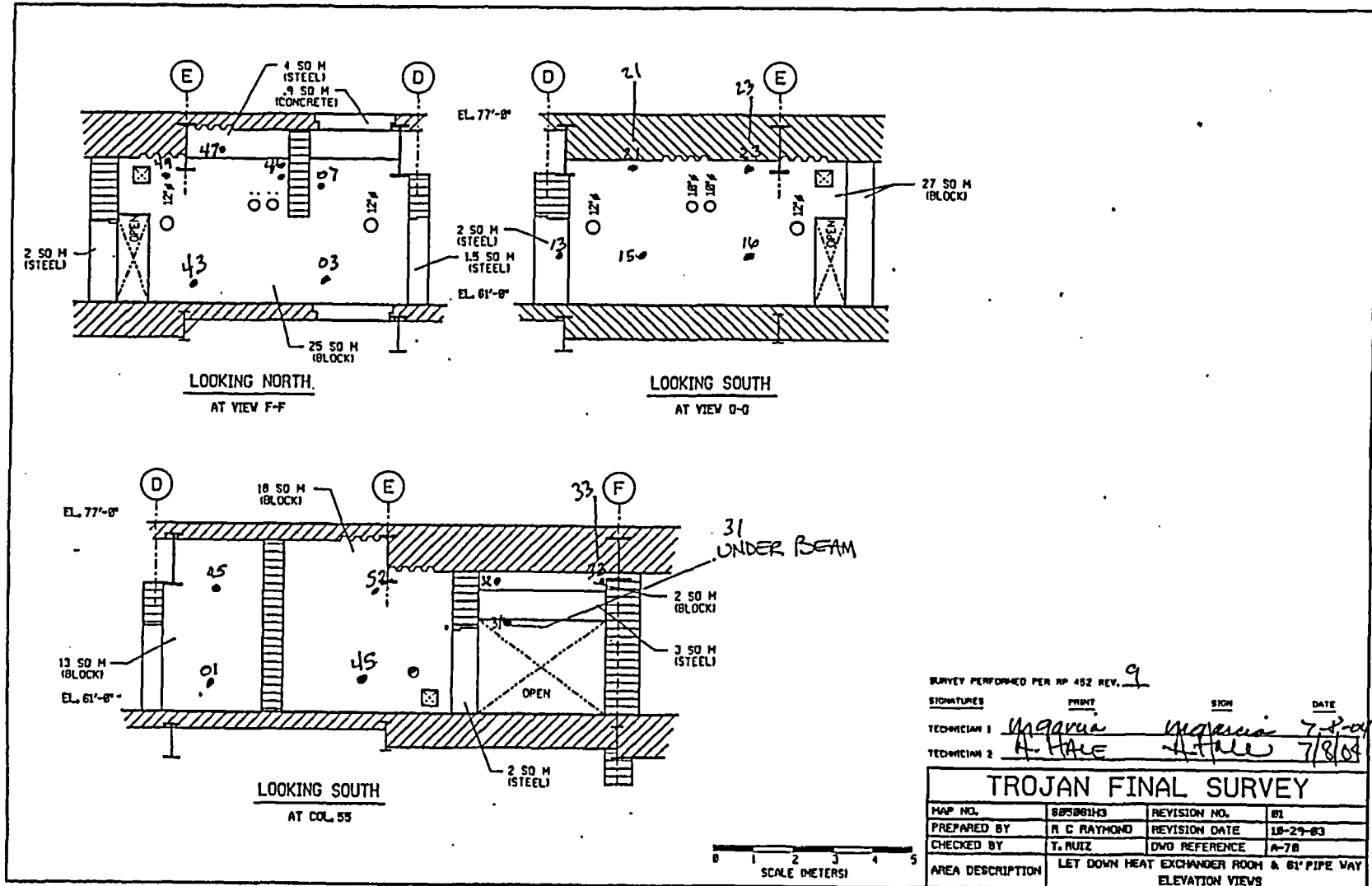
Survey Unit ID Code: S045061H

Classification: Class 1

Survey Unit Name: AB 61' Elevation - Letdown Heat Exchanger Room and Adjacent Pipeway Area

Size (m²): 345

Static Measurement Location Map



FINAL SURVEY RESULTS SUMMARY

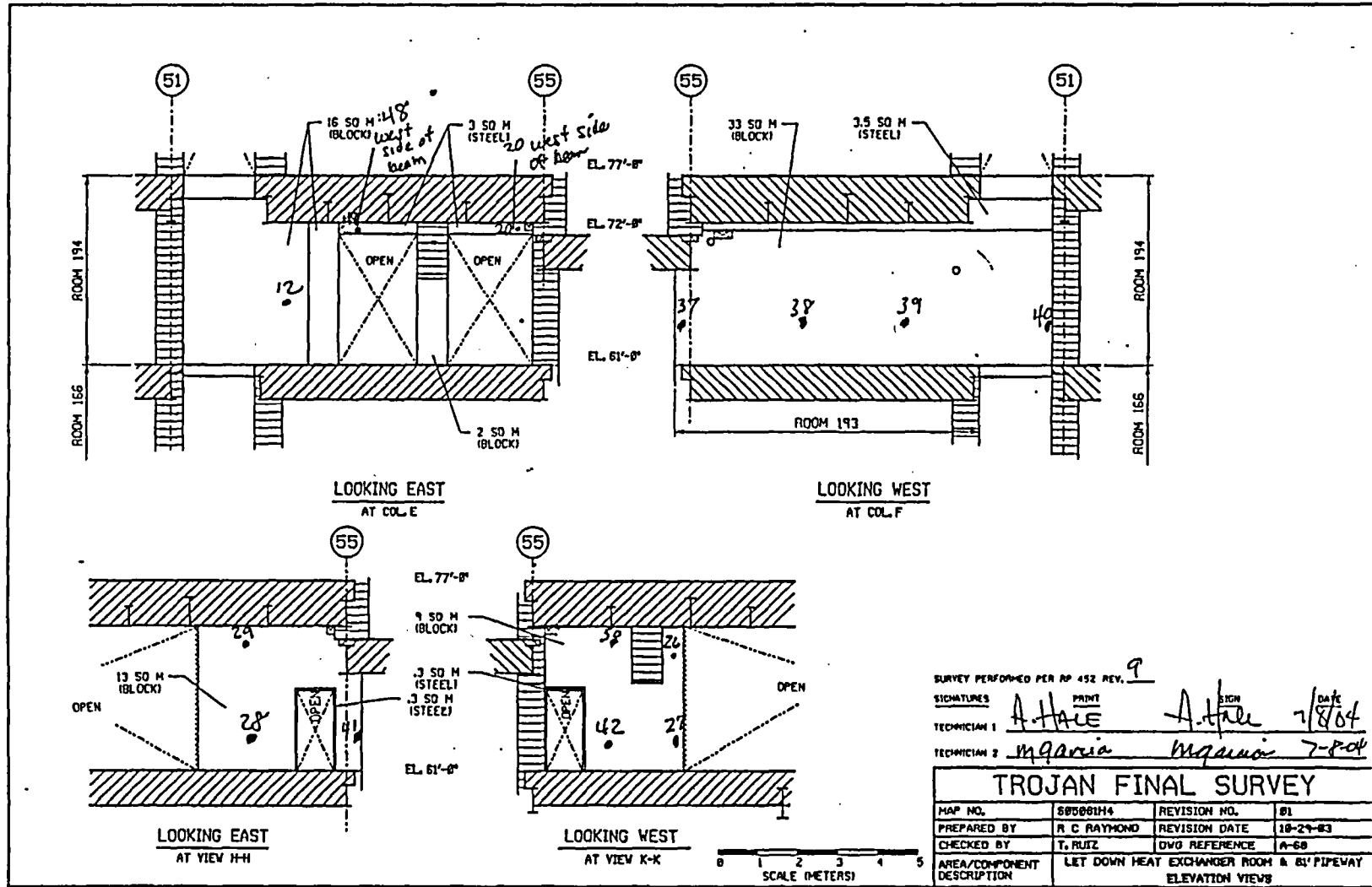
Survey Unit ID Code: S045061H

Classification: Class 1

Survey Unit Name: AB 61' Elevation - Letdown Heat Exchanger Room and Adjacent Pipeway Area

Size (m²): 345

Static Measurement Location Map



SURVEY PERFORMED PER AP 452 REV. 9

SIGNATURES: PRINT A. Hale SIGN A. Hale DATE 7/8/04

TECHNICIAN 1 A. Hale

TECHNICIAN 2 M. Garcia M. Garcia 7-8-04

| TROJAN FINAL SURVEY | | | |
|----------------------------|--|---------------|----------|
| MAP NO. | S045061H4 | REVISION NO. | 01 |
| PREPARED BY | R. C. RAYMOND | REVISION DATE | 10-24-03 |
| CHECKED BY | T. RUIZ | DWG REFERENCE | A-60 |
| AREA/COMPONENT DESCRIPTION | LET DOWN HEAT EXCHANGER ROOM & 61' PIPEWAY ELEVATION VIEWS | | |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05061I
 Survey Unit Name: AB 61' Elevation -
 Volume Control Tank Room

Classification: Class 1
 Size (m²): 101

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|-----------------------|------------|-------------------------|------------|-----|-----|
| 1 | 30 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 1.226e+003
 Maximum Value : 2.582e+003
 Range : 1.356e+003
 Median : 1.546e+003
 Std. Deviation : 3.725e+002
 Mean : 1.685e+003
 95% UCL : 1.800e+003

Measurement Values

| Location | Value | Location | Value |
|----------|------------|----------|------------|
| 000001 | 1.481e+003 | 000018 | 2.517e+003 |
| 000002 | 1.510e+003 | 000019 | 2.037e+003 |
| 000003 | 1.433e+003 | 000020 | 2.055e+003 |
| 000004 | 1.475e+003 | 000021 | 1.481e+003 |
| 000005 | 1.333e+003 | 000022 | 1.718e+003 |
| 000006 | 1.309e+003 | 000023 | 2.103e+003 |
| 000007 | 1.226e+003 | 000024 | 1.493e+003 |
| 000008 | 2.168e+003 | 000025 | 1.558e+003 |
| 000009 | 1.368e+003 | 000026 | 1.676e+003 |
| 000010 | 1.451e+003 | 000027 | 1.605e+003 |
| 000011 | 1.291e+003 | 000028 | 1.652e+003 |
| 000012 | 1.516e+003 | 000029 | 1.587e+003 |
| 000013 | 1.534e+003 | 000030 | 2.215e+003 |
| 000014 | 1.285e+003 | | |
| 000015 | 1.664e+003 | | |
| 000016 | 2.582e+003 | | |
| 000017 | 2.221e+003 | | |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05061I
 Survey Unit Name: AB 61' Elevation –
 Volume Control Tank Room

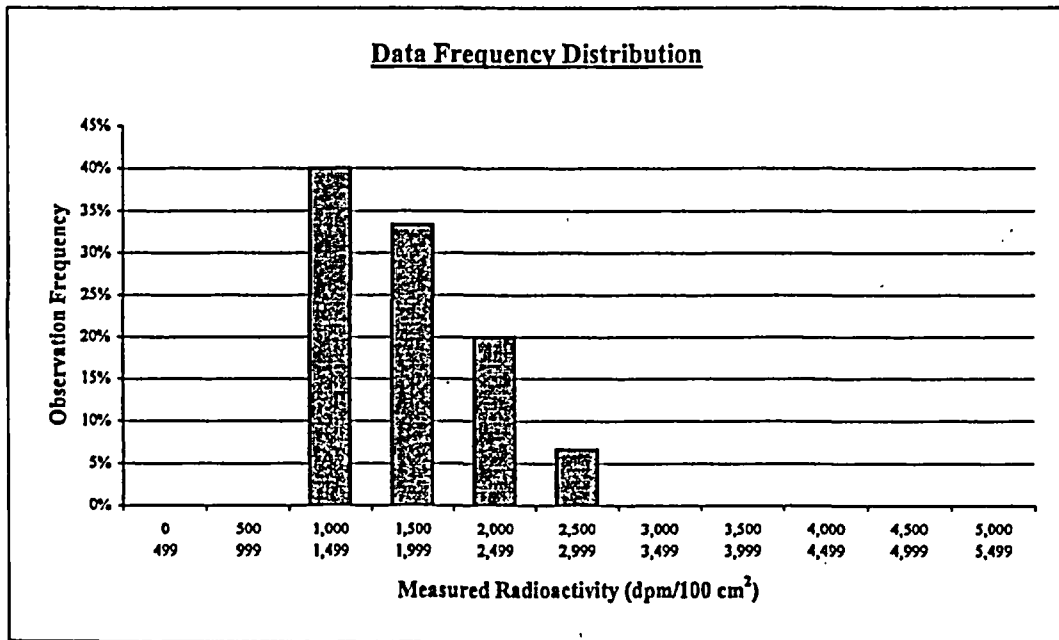
Classification: Class 1
 Size (m²): 101

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | |
|-------------------------|------------------|---------------------|-------------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? |
| Range | 1,356 | 1,863 | Pass |
| Median | 0.373 | 0.500 | Pass |
| Mean | 1,685 | 6,000 | Pass |
| Std Dev | 373 | 1,500 | Pass |

All data less than DCGL; Sign statistical test not required.

| Statistical Quantities | |
|------------------------|-------|
| Range: | 1,356 |
| Median: | 1,546 |
| Mean: | 1,685 |
| Std Dev: | 373 |
| Minimum: | 1,226 |
| Maximum: | 2,582 |
| DCGL: | 7,500 |



| Plot Parameters | |
|---------------------|-------|
| # of measurements: | 30 |
| # of intervals: | 11 |
| Interval increment: | 500 |
| Minimum: | 0 |
| Maximum: | 5,499 |

Comment:
 None.

| Interval | High End | Low End | Number of Observations | Observation Frequency |
|----------|----------|---------|------------------------|-----------------------|
| 1 | 499 | 0 | 0 | 0% |
| 2 | 999 | 500 | 0 | 0% |
| 3 | 1,499 | 1,000 | 12 | 40% |
| 4 | 1,999 | 1,500 | 10 | 33% |
| 5 | 2,499 | 2,000 | 6 | 20% |
| 6 | 2,999 | 2,500 | 2 | 7% |
| 7 | 3,499 | 3,000 | 0 | 0% |
| 8 | 3,999 | 3,500 | 0 | 0% |
| 9 | 4,499 | 4,000 | 0 | 0% |
| 10 | 4,999 | 4,500 | 0 | 0% |
| 11 | 5,499 | 5,000 | 0 | 0% |
| Total: | | | 30 | 100% |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05061I

Classification: Class 1

Survey Unit Name: AB 61' Elevation –
Volume Control Tank Room

Size (m²): 101

Judgmental and Miscellaneous Data

Measurement Type: Surface Scanning Beta

Scan Coverage (%): 100

Measurement Units: dpm/100cm²

Investigation Level: 7,500

Minimum Value: 939

Maximum Value: 10,410

Measurement Type: Removable Beta

Number of Measurements: 30

Measurement Units: dpm/100cm²

Investigation Level: 750

Minimum Value: 49

Maximum Value: 83

Discussion of Anomalous Measurement Data

Investigation Summary

Reason for Investigation: One scan measurement exceeded the investigation level.

Elevated Measurement Comparison (EMC):

| | |
|---|------------------------|
| DCGL (Investigation Level): | 7,500 |
| Measurement Units: | dpm/100cm ² |
| Maximum Value: | 10,410 |
| Size of Area Exceeding DCGL (m²): | 0.02 |
| Size of Survey Unit (m²): | 101 |
| Survey Unit Area >DCGL (%): | 0.02 |
| EMC Value: | 36,750 |

Action Taken: Applied EMC data processing to results for scan location 074 that remains elevated.

Basis for Action Taken: Very small, localized area of elevated radioactivity identified during scan survey is less than 1 m².

FINAL SURVEY RESULTS SUMMARY

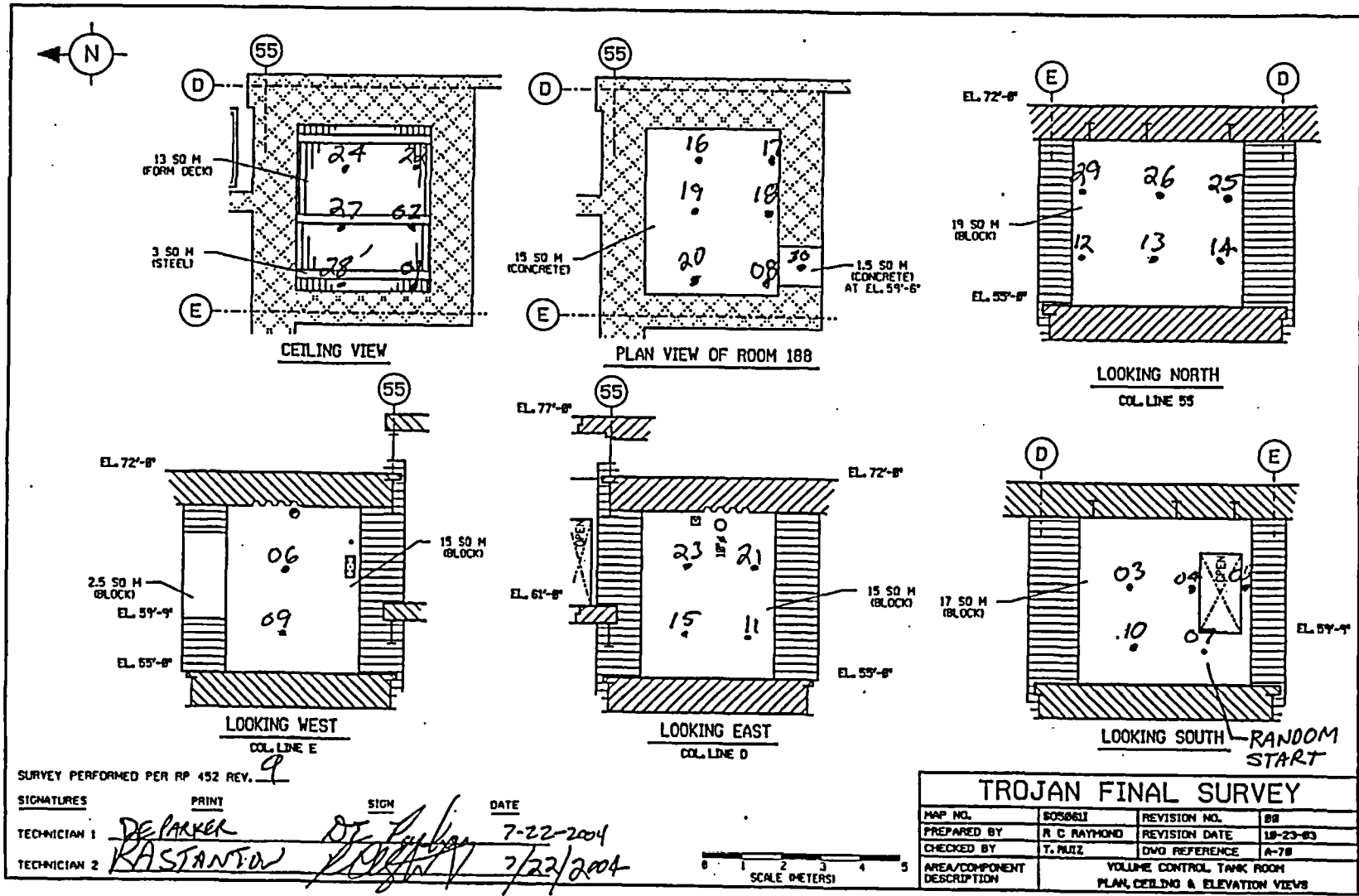
Survey Unit ID Code: S05061I

Survey Unit Name: AB 61' Elevation - Volume Control Tank Room

Classification: Class 1

Size (m²): 101

Static Measurement Location Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05061J
 Survey Unit Name: AB 61' Elevation -
 Pipe Façade at RHR Pipe Chase

Classification: Class 1
 Size (m²): 387

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|-----------------------|------------|-------------------------|------------|-----|-----|
| 1 | 68 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 5.513e+002
 Maximum Value : 4.845e+003
 Range : 4.294e+003
 Median : 9.454e+002
 Std. Deviation : 8.605e+002
 Mean : 1.354e+003
 95% UCL : 1.528e+003

Measurement Values

| Location | Value | Location | Value | Location | Value |
|----------|------------|----------|------------|----------|------------|
| 000001 | 3.802e+003 | 000018 | 8.327e+002 | 000035 | 5.513e+002 |
| 000002 | 2.807e+003 | 000019 | 1.337e+003 | 000036 | 1.016e+003 |
| 000003 | 2.458e+003 | 000020 | 1.138e+003 | 000037 | 8.797e+002 |
| 000004 | 4.845e+003 | 000021 | 1.310e+003 | 000038 | 9.148e+002 |
| 000005 | 3.044e+003 | 000022 | 9.539e+002 | 000039 | 9.031e+002 |
| 000006 | 2.576e+003 | 000023 | 7.702e+002 | 000040 | 9.188e+002 |
| 000007 | 2.339e+003 | 000024 | 6.998e+002 | 000041 | 9.813e+002 |
| 000008 | 2.363e+003 | 000025 | 7.937e+002 | 000042 | 8.054e+002 |
| 000009 | 2.955e+003 | 000026 | 7.624e+002 | 000043 | 9.422e+002 |
| 000010 | 2.612e+003 | 000027 | 7.976e+002 | 000044 | 7.506e+002 |
| 000011 | 2.097e+003 | 000028 | 8.015e+002 | 000045 | 7.937e+002 |
| 000012 | 2.055e+003 | 000029 | 8.445e+002 | 000046 | 7.428e+002 |
| 000013 | 3.104e+003 | 000030 | 8.875e+002 | 000047 | 8.914e+002 |
| 000014 | 1.818e+003 | 000031 | 7.976e+002 | 000048 | 8.601e+002 |
| 000015 | 2.114e+003 | 000032 | 9.422e+002 | 000049 | 9.852e+002 |
| 000016 | 2.043e+003 | 000033 | 9.383e+002 | 000050 | 8.327e+002 |
| 000017 | 2.328e+003 | 000034 | 7.702e+002 | 000051 | 5.904e+002 |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05061J
Survey Unit Name: AB 61' Elevation -
Pipe Façade at RHR Pipe Chase

Classification: Class 1
Size (m²): 387

Data Quality Values

| Location | Value |
|----------|------------|
| 000052 | 8.914e+002 |
| 000053 | 8.679e+002 |
| 000054 | 7.667e+002 |
| 000055 | 9.901e+002 |
| 000056 | 9.978e+002 |
| 000057 | 1.452e+003 |
| 000058 | 1.270e+003 |
| 000059 | 7.861e+002 |
| 000060 | 1.017e+003 |
| 000061 | 9.221e+002 |
| 000062 | 9.108e+002 |
| 000063 | 1.051e+003 |
| 000064 | 1.077e+003 |
| 000065 | 9.486e+002 |
| 000066 | 9.599e+002 |
| 000067 | 9.410e+002 |
| 000068 | 1.096e+003 |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05061J
 Survey Unit Name: AB 61' Elevation –
 Pipe Façade at RHR Pipe Chase

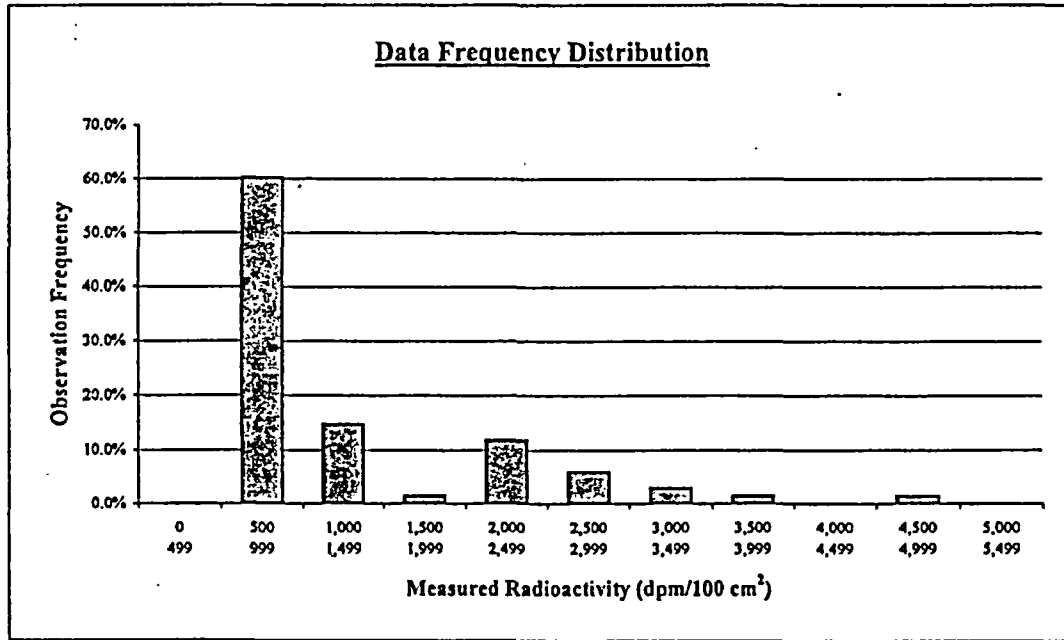
Classification: Class 1
 Size (m²): 387

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | |
|-------------------------|------------------|---------------------|-------------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? |
| Range | 4,294 | 4,302 | Pass |
| Median | 0.474 | 0.500 | Pass |
| Mean | 1,354 | 6,000 | Pass |
| Std Dev | 860 | 1,500 | Pass |

| Statistical Quantities | |
|------------------------|-------|
| Range: | 4,294 |
| Median: | 945 |
| Mean: | 1,354 |
| Std Dev: | 860 |
| Minimum: | 551 |
| Maximum: | 4,845 |
| DCGL: | 7,500 |

All data less than DCGL; Sign statistical test not required.



| Plot Parameters | |
|---------------------|-------|
| # of measurements: | 68 |
| # of intervals: | 11 |
| Interval increment: | 500 |
| Minimum: | 0 |
| Maximum: | 5,499 |

| Interval | High End | Low End | Number of Observations | Observation Frequency |
|----------|----------|---------|------------------------|-----------------------|
| 1 | 499 | 0 | 0 | 0.0% |
| 2 | 999 | 500 | 41 | 60.3% |
| 3 | 1,499 | 1,000 | 10 | 14.7% |
| 4 | 1,999 | 1,500 | 1 | 1.5% |
| 5 | 2,499 | 2,000 | 8 | 11.8% |
| 6 | 2,999 | 2,500 | 4 | 5.9% |
| 7 | 3,499 | 3,000 | 2 | 2.9% |
| 8 | 3,999 | 3,500 | 1 | 1.5% |
| 9 | 4,499 | 4,000 | 0 | 0.0% |
| 10 | 4,999 | 4,500 | 1 | 1.5% |
| 11 | 5,499 | 5,000 | 0 | 0.0% |
| Total: | | | 68 | 100% |

Comment:
 Right skewed data set distribution is expected due to two survey geometries: smooth metal & scabbled concrete surfaces. The 4 values >3,000 dpm are consistent with the scan results.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05061J
Survey Unit Name: AB 61' Elevation –
 Pipe Façade at RHR Pipe Chase

Classification: Class 1
Size (m²): 387

Judgmental and Miscellaneous Data

| | |
|--|-----------------------------------|
| Measurement Type: Surface Scanning Beta | Scan Coverage (%): 100 |
| Measurement Units: dpm/100cm ² | Investigation Level: 7,500 |
| Minimum Value: 791 | Maximum Value: 25,170 |

| | |
|--|-----------------------------------|
| Measurement Type: Removable Beta | Number of Measurements: 68 |
| Measurement Units: dpm/100cm ² | Investigation Level: 750 |
| Minimum Value: 42 | Maximum Value: 89 |

Discussion of Anomalous Measurement Data

Investigation Summary

Reason for Investigation: Eighteen scan measurements exceeded the investigation level.

Elevated Measurement Comparison (EMC):

| | |
|---|------------------------|
| DCGL (Investigation Level): | 7,500 |
| Measurement Units: | dpm/100cm ² |
| Maximum Value: | 28,260 |
| Size of Area Exceeding DCGL (m²): | 0.42 |
| Size of Survey Unit (m²): | 387 |
| Survey Unit Area >DCGL (%): | 0.11 |
| EMC Value: | 36,750 |

Action Taken: Corrected measurement values for scan locations per guidance in memo FS-018-03; used similar method for measurements for scan locations obtained with a 43-68 gas flow proportional detector. Replaced original scan results in SDMS with the corrected results. Applied EMC data processing to corrected scan locations that remain elevated.

Basis for Action Taken: Technical basis memorandum FS-018-03 provides guidance for correcting SDMS determined scan results for locations that exceed the investigation level by subtracting instrument background from the field results.

FINAL SURVEY RESULTS SUMMARY

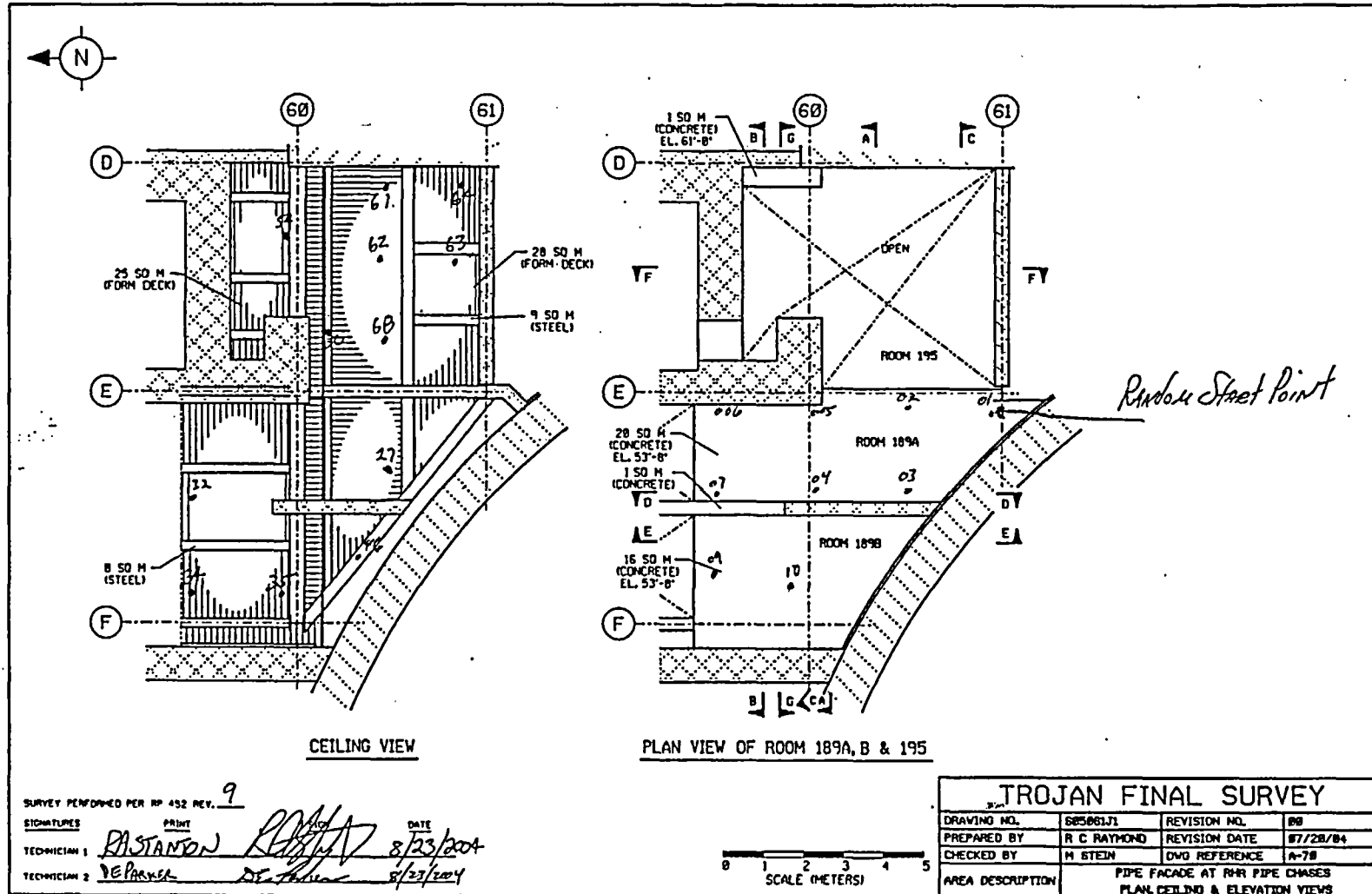
Survey Unit ID Code: S05061J

Survey Unit Name: AB 61' Elevation - Pipe Façade at RHR Pipe Chase

Classification: Class 1

Size (m²): 387

Static Measurement Location Map

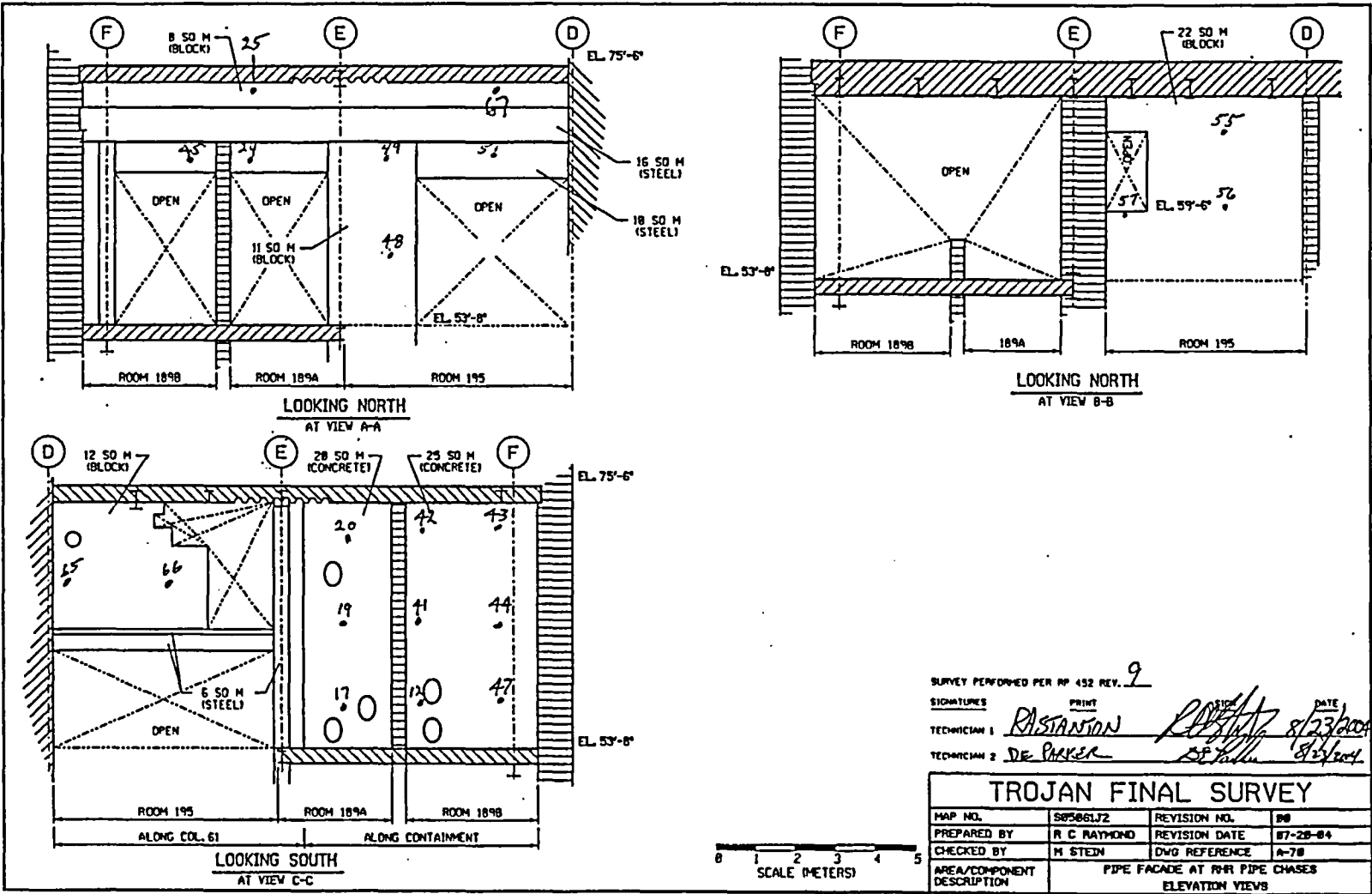


FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05061J
 Survey Unit Name: AB 61' Elevation - Pipe Façade at RHR Pipe Chase

Classification: Class 1
 Size (m²): 387

Static Measurement Location Map



SURVEY PERFORMED PER RP 452 REV. 9
 SIGNATURES: *R. Stanton* (TECHNICIAN 1), *De Parker* (TECHNICIAN 2)
 DATE: 8/23/04

| TROJAN FINAL SURVEY | | | |
|----------------------------|---|---------------|----------|
| MAP NO. | S05061J2 | REVISION NO. | 00 |
| PREPARED BY | R C RAYMOND | REVISION DATE | 07-28-04 |
| CHECKED BY | M STEIN | DWG REFERENCE | A-70 |
| AREA/COMPONENT DESCRIPTION | PIPE FAÇADE AT RHR PIPE CHASES ELEVATION VIEWS | | |

FINAL SURVEY RESULTS SUMMARY

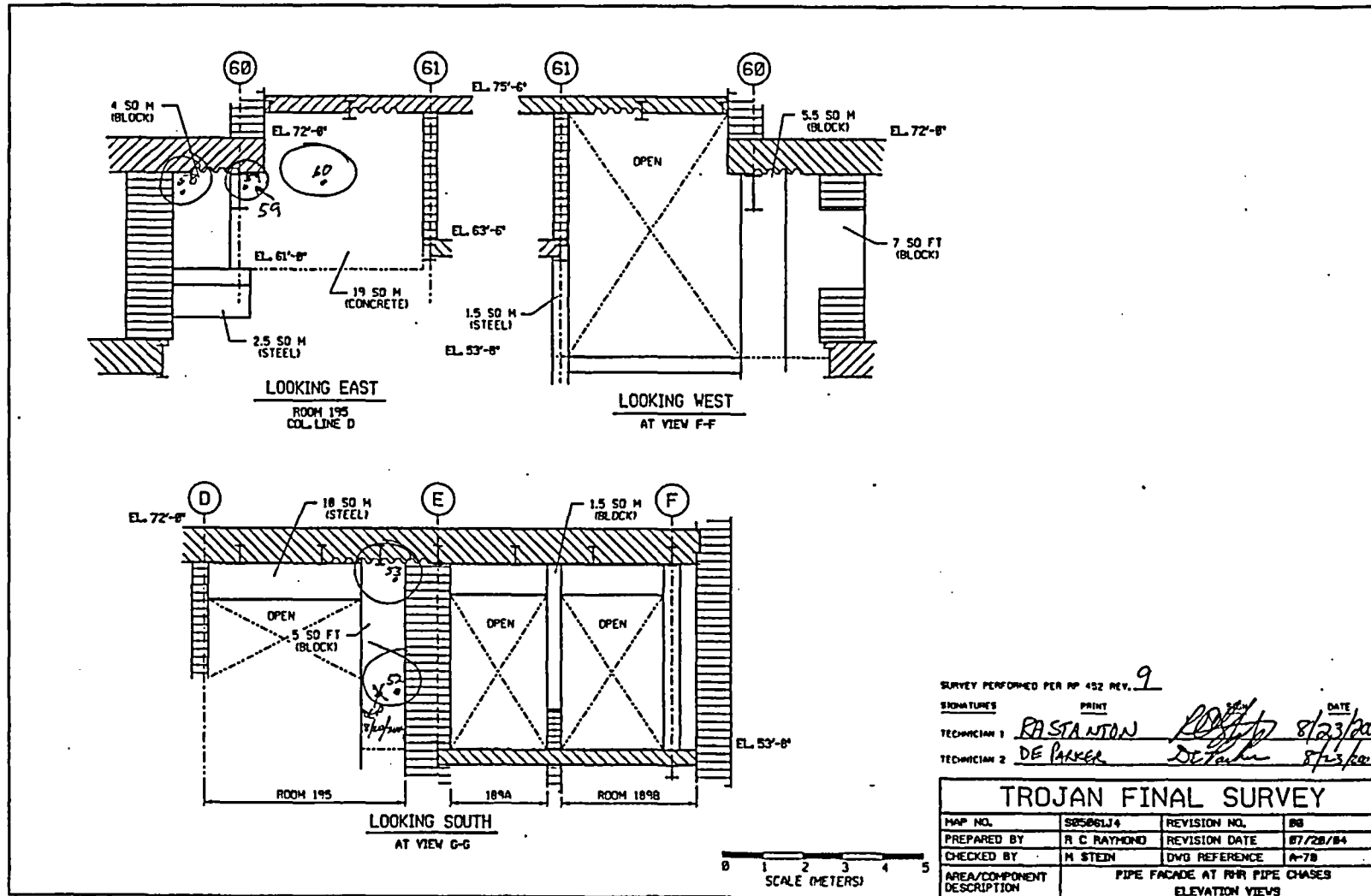
Survey Unit ID Code: S05061J

Survey Unit Name: AB 61' Elevation - Pipe Façade at RHR Pipe Chase

Classification: Class 1

Size (m²): 387

Static Measurement Location Map



SURVEY PERFORMED PER RP 452 REV. 9
 SIGNATURES PRINT DATE
 TECHNICIAN 1: R. STANTON 8/23/2004
 TECHNICIAN 2: DE PARKER 8/23/2004

| TROJAN FINAL SURVEY | | | |
|----------------------------|---|----------------|----------|
| MAP NO. | S05061J4 | REVISION NO. | 00 |
| PREPARED BY | R. C. RAYMOND | REVISION DATE | 07/28/04 |
| CHECKED BY | M. STEIN | DWG. REFERENCE | A-7B |
| AREA/COMPONENT DESCRIPTION | PIPE FAÇADE AT RHR PIPE CHASES ELEVATION VIEWS | | |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05061K

Classification: Class 1

Survey Unit Name: AB 61' Elevation -

Size (m²): 220

Pipe Façade Stair Platform and Fuel Transfer Tube Vault

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|-----------------------|------------|-------------------------|------------|-----|-----|
| 1 | 40 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 1.027e+003
 Maximum Value : 2.627e+003
 Range : 1.600e+003
 Median : 1.726e+003
 Std. Deviation : 4.212e+002
 Mean : 1.719e+003
 95% UCL : 1.831e+003

Measurement Values

| Location | Value | Location | Value | Location | Value |
|----------|------------|----------|------------|----------|------------|
| 000001 | 2.488e+003 | 000018 | 1.134e+003 | 000035 | 2.205e+003 |
| 000002 | 1.764e+003 | 000019 | 1.512e+003 | 000036 | 2.627e+003 |
| 000003 | 1.682e+003 | 000020 | 1.984e+003 | 000037 | 1.732e+003 |
| 000004 | 1.909e+003 | 000021 | 1.342e+003 | 000038 | 1.436e+003 |
| 000005 | 1.915e+003 | 000022 | 1.052e+003 | 000039 | 1.461e+003 |
| 000006 | 1.789e+003 | 000023 | 1.820e+003 | 000040 | 2.186e+003 |
| 000007 | 1.827e+003 | 000024 | 1.386e+003 | | |
| 000008 | 2.293e+003 | 000025 | 1.461e+003 | | |
| 000009 | 1.927e+003 | 000026 | 1.335e+003 | | |
| 000010 | 1.940e+003 | 000027 | 1.304e+003 | | |
| 000011 | 1.197e+003 | 000028 | 2.249e+003 | | |
| 000012 | 1.329e+003 | 000029 | 2.482e+003 | | |
| 000013 | 1.720e+003 | 000030 | 1.436e+003 | | |
| 000014 | 1.392e+003 | 000031 | 2.293e+003 | | |
| 000015 | 1.386e+003 | 000032 | 1.827e+003 | | |
| 000016 | 1.027e+003 | 000033 | 2.154e+003 | | |
| 000017 | 1.436e+003 | 000034 | 1.316e+003 | | |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05061K

Classification: Class 1

Survey Unit Name: AB 61' Elevation -

Size (m²): 220

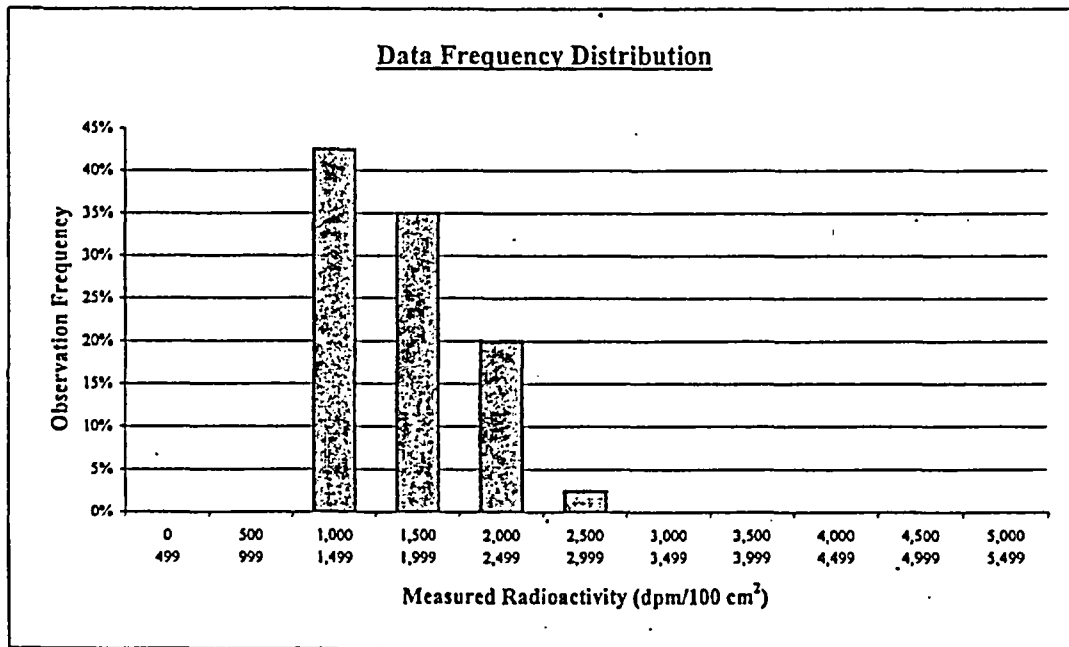
Pipe Façade Stair Platform and Fuel Transfer Tube Vault

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | |
|-------------------------|------------------|---------------------|-------------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? |
| Range | 1,600 | 2,106 | Pass |
| Median | 0.017 | 0.500 | Pass |
| Mean | 1,719 | 6,000 | Pass |
| Std Dev | 421 | 1,500 | Pass |

| Statistical Quantities | |
|------------------------|-------|
| Range: | 1,600 |
| Median: | 1,726 |
| Mean: | 1,719 |
| Std Dev: | 421 |
| Minimum: | 1,027 |
| Maximum: | 2,627 |
| DCGL: | 7,500 |

All data less than DCGL; Sign statistical test not required.



| Plot Parameters | |
|---------------------|-------|
| # of measurements: | 40 |
| # of intervals: | 11 |
| Interval increment: | 500 |
| Minimum: | 0 |
| Maximum: | 5,499 |

Comment:
None.

| Interval | High End | Low End | Number of Observations | Observation Frequency |
|----------|----------|---------|------------------------|-----------------------|
| 1 | 499 | 0 | 0 | 0% |
| 2 | 999 | 500 | 0 | 0% |
| 3 | 1,499 | 1,000 | 17 | 43% |
| 4 | 1,999 | 1,500 | 14 | 35% |
| 5 | 2,499 | 2,000 | 8 | 20% |
| 6 | 2,999 | 2,500 | 1 | 3% |
| 7 | 3,499 | 3,000 | 0 | 0% |
| 8 | 3,999 | 3,500 | 0 | 0% |
| 9 | 4,499 | 4,000 | 0 | 0% |
| 10 | 4,999 | 4,500 | 0 | 0% |
| 11 | 5,499 | 5,000 | 0 | 0% |
| Total: | | | 40 | 100% |

FINAL SURVEY RESULTS SUMMARY

| | |
|--|----------------------------------|
| Survey Unit ID Code: S05061K | Classification: Class 1 |
| Survey Unit Name: AB 61' Elevation – Pipe Façade Stair Platform and Fuel Transfer Tube Vault | Size (m²): 220 |

Judgmental and Miscellaneous Data

| | |
|--|-----------------------------------|
| Measurement Type: Surface Scanning Beta | Scan Coverage (%): 100 |
| Measurement Units: dpm/100cm ² | Investigation Level: 7,500 |
| Minimum Value: 985 | Maximum Value: 12,420 |

| | |
|--|-----------------------------------|
| Measurement Type: Removable Beta | Number of Measurements: 40 |
| Measurement Units: dpm/100cm ² | Investigation Level: 750 |
| Minimum Value: 40 | Maximum Value: 83 |

Discussion of Anomalous Measurement Data

Investigation Summary

Reason for Investigation: Ten scan measurements exceeded the investigation level.

Elevated Measurement Comparison (EMC):

| | |
|--|------------------------|
| DCGL (Investigation Level): | 7,500 |
| Measurement Units: | dpm/100cm ² |
| Maximum Value: | 29,800 |
| Size of Area Exceeding DCGL (m ²): | 0.21 |
| Size of Survey Unit (m ²): | 220 |
| Survey Unit Area >DCGL (%): | 0.1 |
| EMC Value: | 36,750 |

Action Taken: Corrected measurement values for scan locations per guidance in memo FS-018-03; used similar method for measurements for scan locations obtained with a 43-68 gas flow proportional detector. Deleted scan results for scan locations 033, 034, 080, & 110 to be remediated. Replaced original scan results in SDMS with the corrected results for the others. Rescanned remediated areas. Applied EMC data processing to corrected results for scan locations 078, 112, & 113 that remain elevated.

Basis for Action Taken: Technical basis memorandum FS-018-03 provides guidance for correcting SDMS determined scan results for locations that exceed the investigation level by subtracting instrument background from the field results.

FINAL SURVEY RESULTS SUMMARY

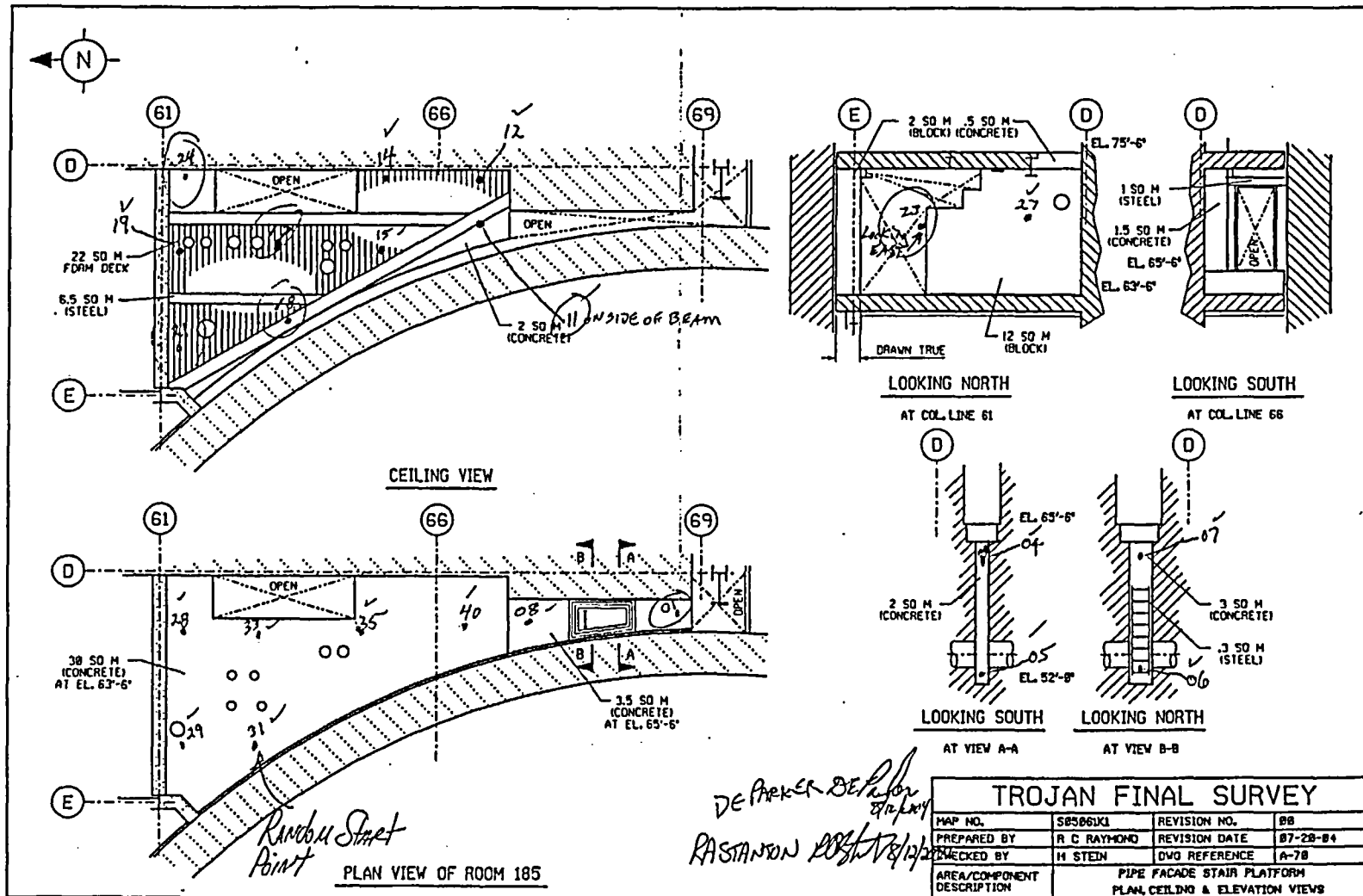
Survey Unit ID Code: S05061K

Survey Unit Name: AB 61' Elevation - Pipe Façade Stair Platform and Fuel Transfer Tube Vault

Classification: Class 1

Size (m²): 220

Static Measurement Location Map



DE PARKER DELAFORE
PASTANON 2021/8/12

| TROJAN FINAL SURVEY | | | |
|----------------------------|---|---------------|----------|
| MAP NO. | S05061K1 | REVISION NO. | 08 |
| PREPARED BY | R C RAYMOND | REVISION DATE | 87-28-84 |
| CHECKED BY | H STEIN | DWG REFERENCE | A-78 |
| AREA/COMPONENT DESCRIPTION | PIPE FAÇADE STAIR PLATFORM PLAN, CEILING & ELEVATION VIEWS | | |

FINAL SURVEY RESULTS SUMMARY

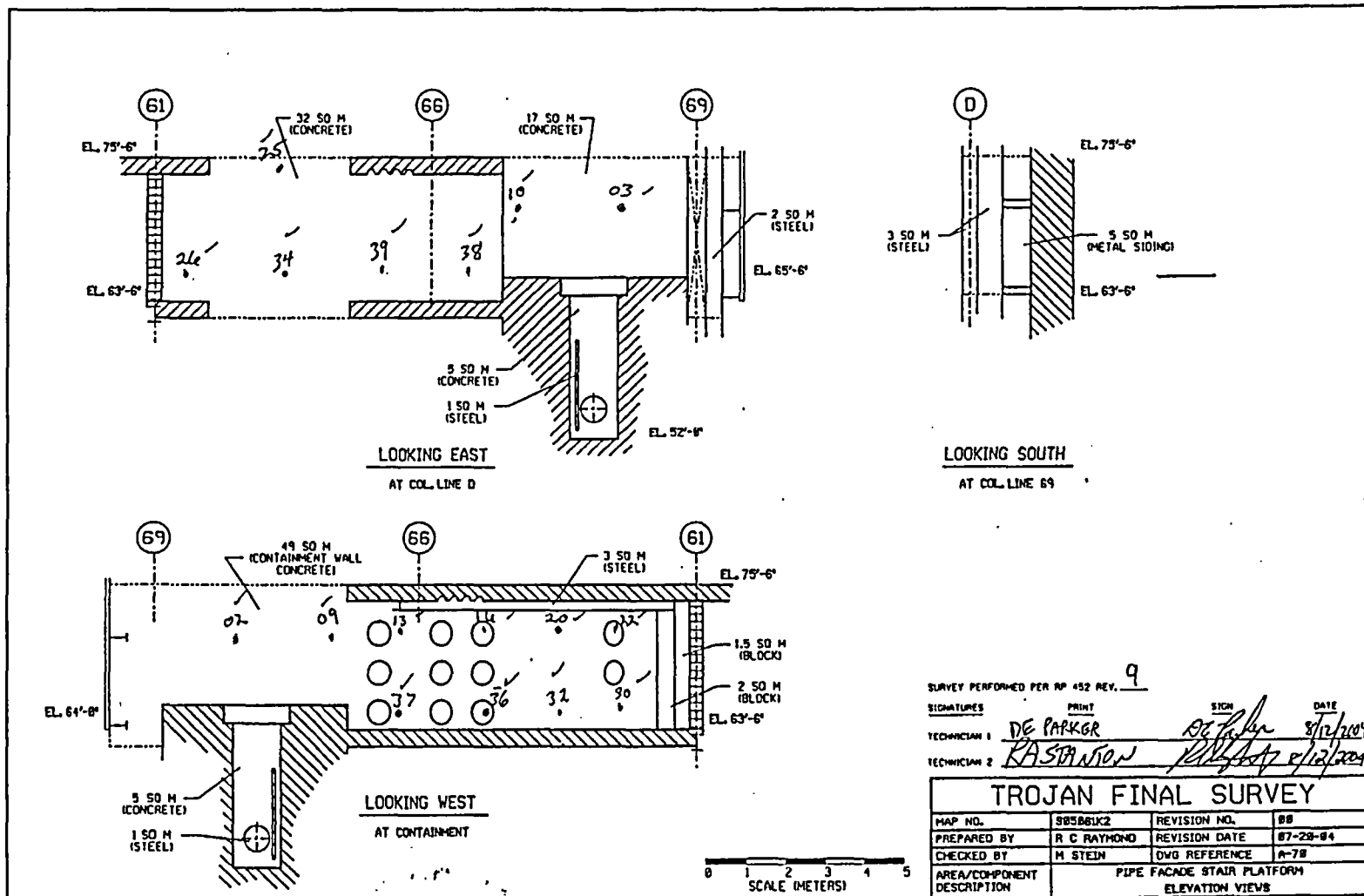
Survey Unit ID Code: S05061K

Survey Unit Name: AB 61' Elevation - Pipe Façade Stair Platform and Fuel Transfer Tube Vault

Classification: Class I

Size (m²): 220

Static Measurement Location Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05067B
 Survey Unit Name: A 67' Elevation -
 Valve Gallery Upper Walls and Ceiling

Classification: Class 2
 Size (m²): 140

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|-----------------------|------------|-------------------------|------------|-----|-----|
| 1 | 31 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 3.566e+002
 Maximum Value : 1.012e+003
 Range : 6.554e+002
 Median : 8.013e+002
 Std. Deviation : 1.429e+002
 Mean : 7.658e+002
 95% UCL : 8.094e+002

Measurement Values

| Location | Value | Location | Value |
|----------|------------|----------|------------|
| 000001 | 1.012e+003 | 000018 | 7.093e+002 |
| 000002 | 9.355e+002 | 000019 | 8.205e+002 |
| 000003 | 3.566e+002 | 000020 | 6.441e+002 |
| 000004 | 8.435e+002 | 000021 | 8.397e+002 |
| 000005 | 8.895e+002 | 000022 | 6.710e+002 |
| 000006 | 7.975e+002 | 000023 | 7.515e+002 |
| 000007 | 4.869e+002 | 000024 | 6.940e+002 |
| 000008 | 8.205e+002 | 000025 | 8.052e+002 |
| 000009 | 8.320e+002 | 000026 | 8.972e+002 |
| 000010 | 4.793e+002 | 000027 | 8.473e+002 |
| 000011 | 6.748e+002 | 000028 | 6.978e+002 |
| 000012 | 7.476e+002 | 000029 | 8.397e+002 |
| 000013 | 8.512e+002 | 000030 | 7.515e+002 |
| 000014 | 9.547e+002 | 000031 | 8.972e+002 |
| 000015 | 8.013e+002 | | |
| 000016 | 6.250e+002 | | |
| 000017 | 7.668e+002 | | |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05067B
Survey Unit Name: A 67' Elevation -
 Valve Gallery Upper Walls and Ceiling

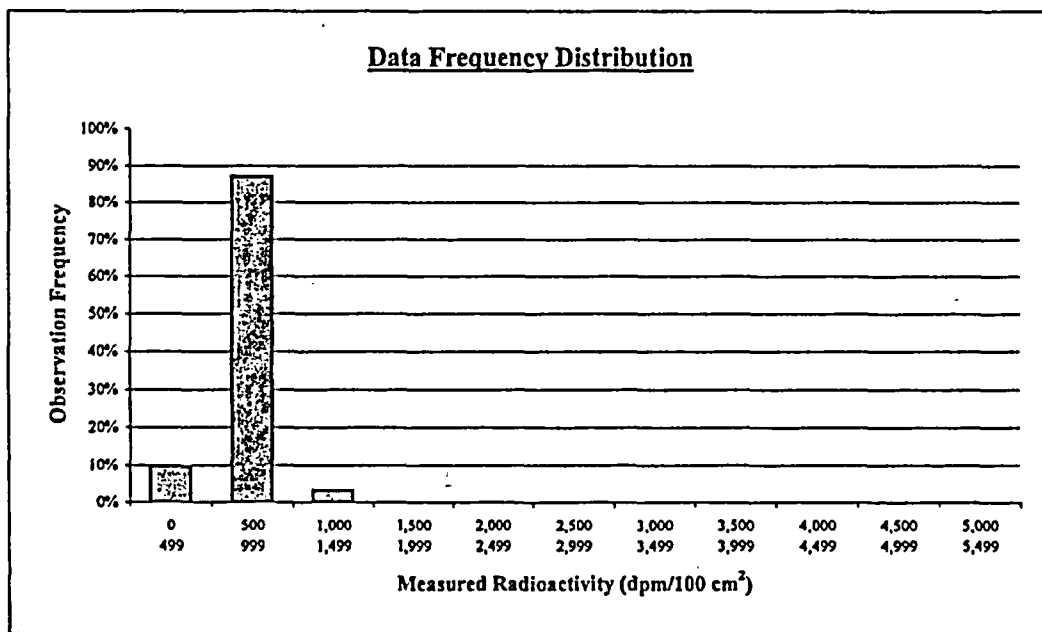
Classification: Class 2
Size (m²): 140

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | |
|-------------------------|------------------|---------------------|-------------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? |
| Range | 655 | 715 | Pass |
| Median | 0.245 | 0.500 | Pass |
| Mean | 766 | 6,000 | Pass |
| Std Dev | 143 | 1,500 | Pass |

All data less than DCGL; Sign statistical test not required.

| Statistical Quantities | |
|------------------------|-------|
| Range: | 655 |
| Median: | 801 |
| Mean: | 766 |
| Std Dev: | 143 |
| Minimum: | 357 |
| Maximum: | 1,012 |
| DCGL: | 7,500 |



| Plot Parameters | | Interval | High End | Low End | Number of Observations | Observation Frequency |
|---------------------|-------|----------|----------|---------|------------------------|-----------------------|
| # of measurements: | 31 | 1 | 499 | 0 | 3 | 10% |
| # of intervals: | 11 | 2 | 999 | 500 | 27 | 87% |
| Interval increment: | 500 | 3 | 1,499 | 1,000 | 1 | 3% |
| Minimum: | 0 | 4 | 1,999 | 1,500 | 0 | 0% |
| Maximum: | 5,499 | 5 | 2,499 | 2,000 | 0 | 0% |
| | | 6 | 2,999 | 2,500 | 0 | 0% |
| | | 7 | 3,499 | 3,000 | 0 | 0% |
| | | 8 | 3,999 | 3,500 | 0 | 0% |
| | | 9 | 4,499 | 4,000 | 0 | 0% |
| | | 10 | 4,999 | 4,500 | 0 | 0% |
| | | 11 | 5,499 | 5,000 | 0 | 0% |
| | | Total: | | | 31 | 100% |

Comment:
None.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05067B

Classification: Class 2

Survey Unit Name: A 67' Elevation –

Size (m²): 140

Valve Gallery Upper Walls and Ceiling

Judgmental and Miscellaneous Data

Measurement Type: Surface Scanning Beta

Scan Coverage (%): 30

Measurement Units: dpm/100cm²

Investigation Level: 7,500

Minimum Value: 818

Maximum Value: 3,285

Measurement Type: Removable Beta

Number of Measurements: 31

Measurement Units: dpm/100cm²

Investigation Level: 750

Minimum Value: 39

Maximum Value: 85

Discussion of Anomalous Measurement Data

Investigation Summary

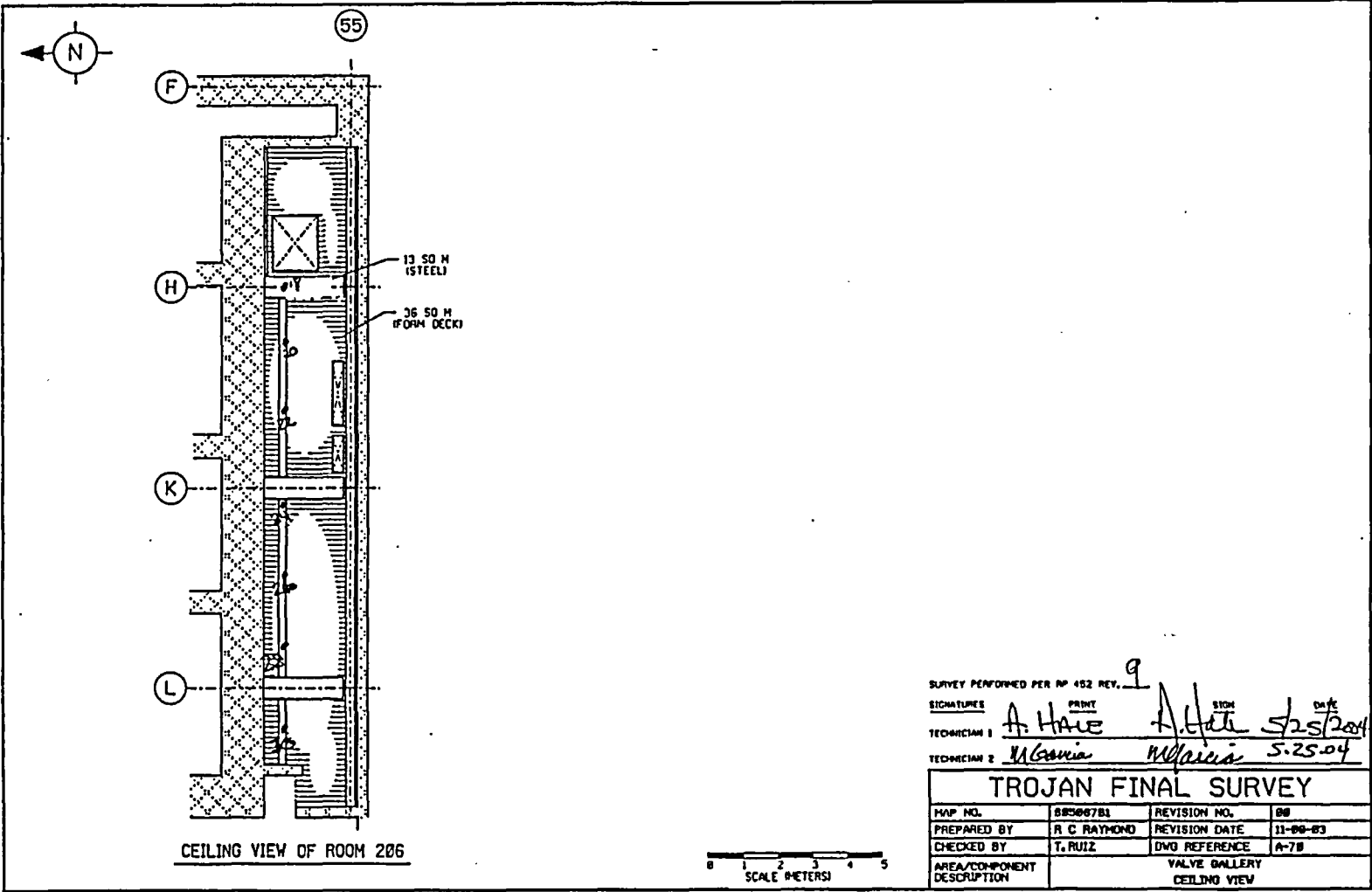
No investigation required for this survey unit. No anomalous measurement data.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05067B
 Survey Unit Name: AB 67' Elevation - Valve Gallery Upper Walls and Ceiling

Classification: Class 2
 Size (m²): 140

Static Measurement Location Map



FINAL SURVEY RESULTS SUMMARY

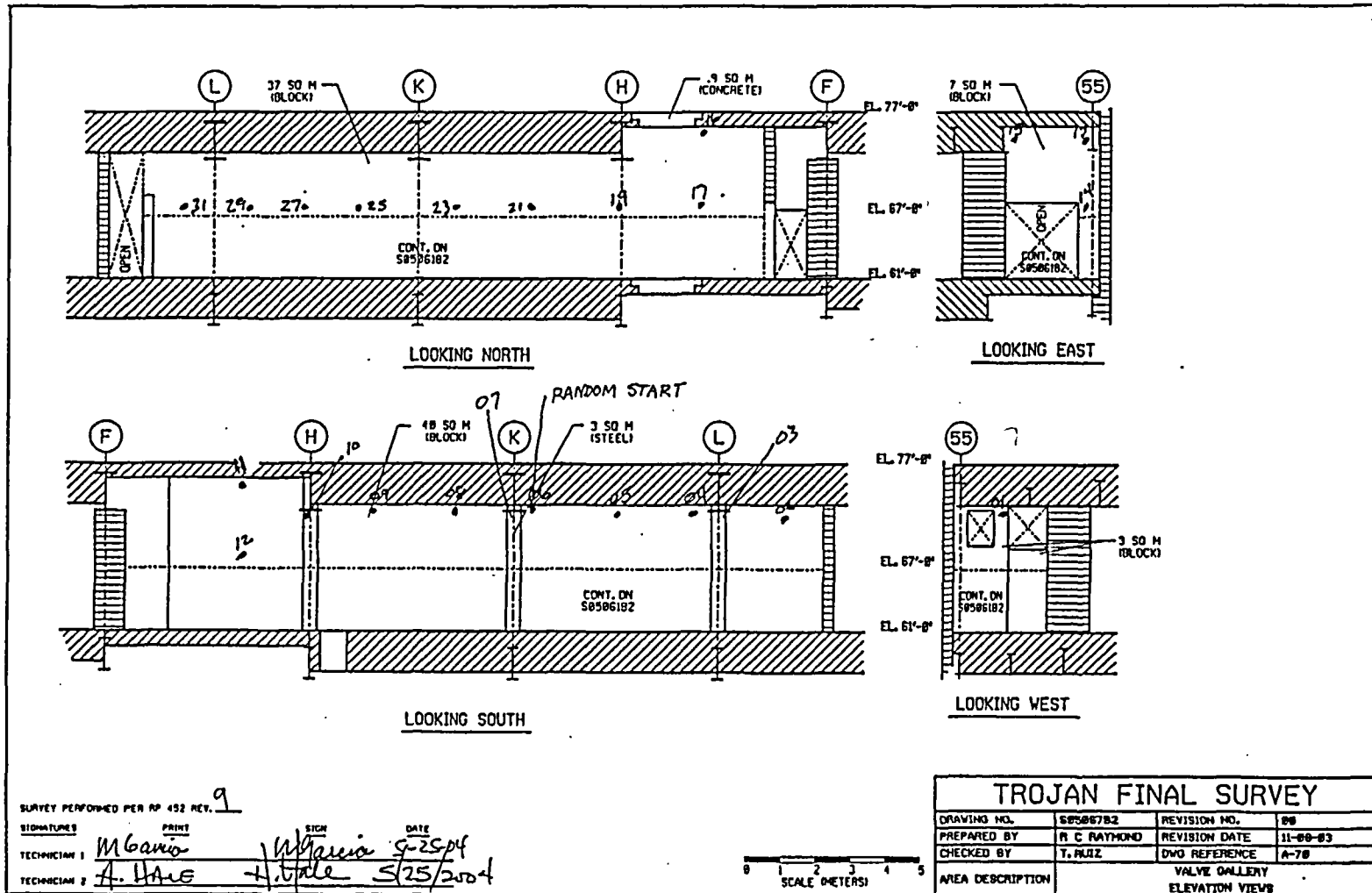
Survey Unit ID Code: S05067B

Survey Unit Name: AB 67' Elevation - Valve Gallery Upper Walls and Ceiling

Classification: Class 2

Size (m²): 140

Static Measurement Location Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05067C

Classification: Class 2

Survey Unit Name: AB 67' Elevation -

Size (m²): 258

Waste Gas Decay Tank Rooms Upper Walls and Ceiling

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|-----------------------|------------|-------------------------|------------|-----|-----|
| 1 | 42 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 6.111e+002
 Maximum Value : 9.049e+002
 Range : 2.938e+002
 Median : 7.746e+002
 Std. Deviation : 6.657e+001
 Mean : 7.734e+002
 95% UCL : 7.906e+002

Measurement Values

| Location | Value | Location | Value | Location | Value |
|----------|------------|----------|------------|----------|------------|
| 000001 | 7.380e+002 | 000018 | 7.500e+002 | 000035 | 7.195e+002 |
| 000002 | 7.937e+002 | 000019 | 6.111e+002 | 000036 | 7.529e+002 |
| 000003 | 8.307e+002 | 000020 | 8.382e+002 | 000037 | 7.825e+002 |
| 000004 | 8.567e+002 | 000021 | 7.529e+002 | 000038 | 7.714e+002 |
| 000005 | 6.972e+002 | 000022 | 8.196e+002 | 000039 | 8.419e+002 |
| 000006 | 8.159e+002 | 000023 | 7.529e+002 | 000040 | 8.085e+002 |
| 000007 | 8.159e+002 | 000024 | 6.750e+002 | 000041 | 7.714e+002 |
| 000008 | 8.715e+002 | 000025 | 8.604e+002 | 000042 | 6.416e+002 |
| 000009 | 8.604e+002 | 000026 | 6.676e+002 | | |
| 000010 | 6.972e+002 | 000027 | 7.714e+002 | | |
| 000011 | 7.862e+002 | 000028 | 6.824e+002 | | |
| 000012 | 9.049e+002 | 000029 | 7.603e+002 | | |
| 000013 | 6.787e+002 | 000030 | 7.306e+002 | | |
| 000014 | 8.307e+002 | 000031 | 7.640e+002 | | |
| 000015 | 8.056e+002 | 000032 | 8.196e+002 | | |
| 000016 | 8.056e+002 | 000033 | 7.417e+002 | | |
| 000017 | 7.778e+002 | 000034 | 8.270e+002 | | |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05067C

Classification: Class 2

Survey Unit Name: AB 67' Elevation -

Size (m²): 258

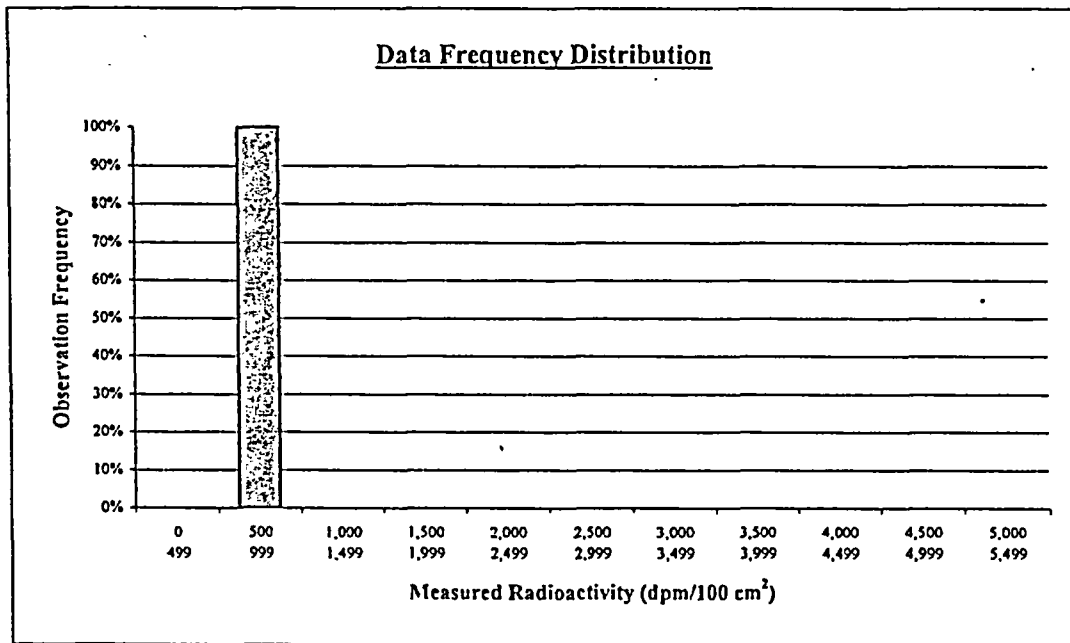
Waste Gas Decay Tank Rooms Upper Walls and Ceiling

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | |
|-------------------------|------------------|---------------------|-------------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? |
| Range | 294 | 333 | Pass |
| Median | 0.016 | 0.500 | Pass |
| Mean | 773 | 6,000 | Pass |
| Std Dev | 67 | 1,500 | Pass |

| Statistical Quantities | |
|------------------------|-------|
| Range: | 294 |
| Median: | 775 |
| Mean: | 773 |
| Std Dev: | 67 |
| Minimum: | 611 |
| Maximum: | 905 |
| DCGL: | 7,500 |

All data less than DCGL; Sign statistical test not required.



| Plot Parameters | |
|---------------------|-------|
| # of measurements: | 42 |
| # of intervals: | 11 |
| Interval increment: | 500 |
| Minimum: | 0 |
| Maximum: | 5,499 |

Comment:
None.

| Interval | High End | Low End | Number of Observations | Observation Frequency |
|---------------|----------|---------|------------------------|-----------------------|
| 1 | 499 | 0 | 0 | 0% |
| 2 | 999 | 500 | 42 | 100% |
| 3 | 1,499 | 1,000 | 0 | 0% |
| 4 | 1,999 | 1,500 | 0 | 0% |
| 5 | 2,499 | 2,000 | 0 | 0% |
| 6 | 2,999 | 2,500 | 0 | 0% |
| 7 | 3,499 | 3,000 | 0 | 0% |
| 8 | 3,999 | 3,500 | 0 | 0% |
| 9 | 4,499 | 4,000 | 0 | 0% |
| 10 | 4,999 | 4,500 | 0 | 0% |
| 11 | 5,499 | 5,000 | 0 | 0% |
| Total: | | | 42 | 100% |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05067C **Classification:** Class 2
Survey Unit Name: AB 67' Elevation – **Size (m²):** 258
Waste Gas Decay Tank Rooms Upper Walls and Ceiling

Judgmental and Miscellaneous Data

| | |
|--|-----------------------------------|
| Measurement Type: Surface Scanning Beta | Scan Coverage (%): 30 |
| Measurement Units: dpm/100cm ² | Investigation Level: 7,500 |
| Minimum Value: 762 | Maximum Value: 1,599 |
| Measurement Type: Removable Beta | Number of Measurements: 42 |
| Measurement Units: dpm/100cm ² | Investigation Level: 750 |
| Minimum Value: 6 | Maximum Value: 85 |

Discussion of Anomalous Measurement Data

Investigation Summary

No investigation required for this survey unit. No anomalous measurement data.

FINAL SURVEY RESULTS SUMMARY

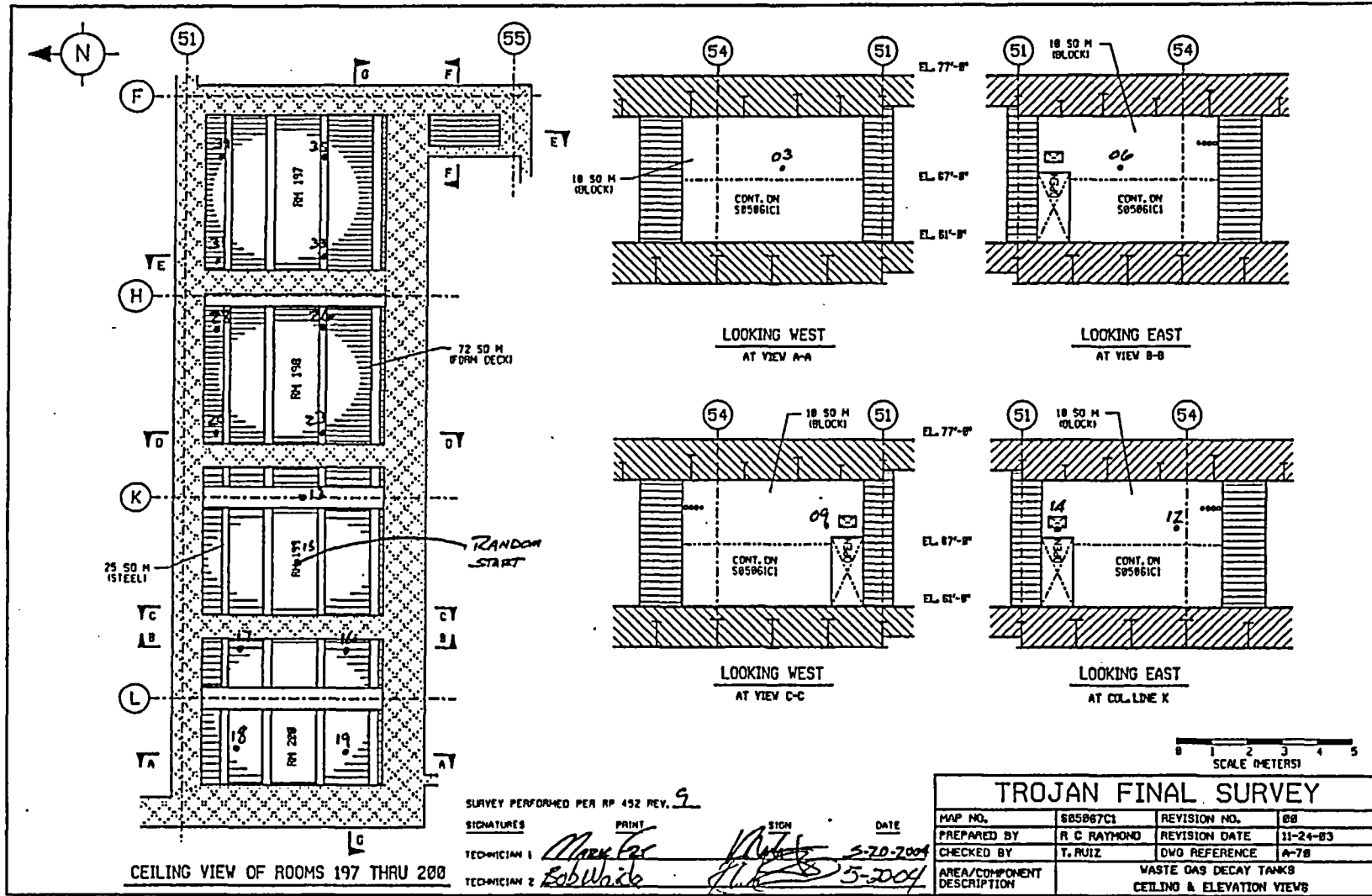
Survey Unit ID Code: S05067C

Classification: Class 2

Survey Unit Name: AB 67' Elevation - Waste Gas Decay Tank Rooms Upper Walls and Ceiling

Size (m²): 258

Static Measurement Location Map



FINAL SURVEY RESULTS SUMMARY

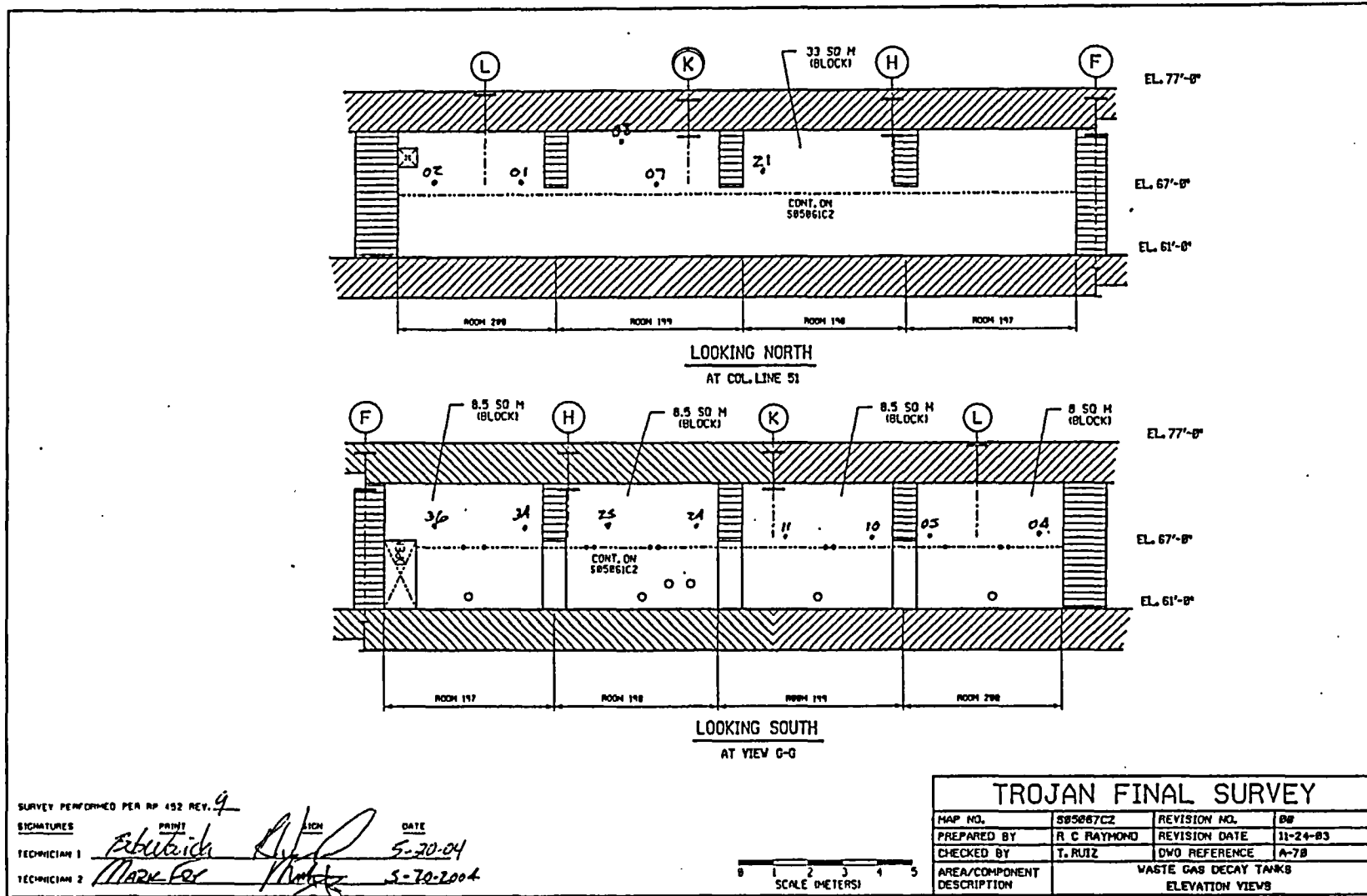
Survey Unit ID Code: S05067C

Survey Unit Name: AB 67' Elevation – Waste Gas Decay Tank Rooms Upper Walls and Ceiling

Classification: Class 2

Size (m²): 258

Static Measurement Location Map



SURVEY PERFORMED PER RP 452 REV. 9

| | | | |
|--------------|------------------|--------------------|-----------|
| SIGNATURES | PROJ | SIGN | DATE |
| TECHNICIAN 1 | <i>E. Eubank</i> | <i>[Signature]</i> | 5-20-04 |
| TECHNICIAN 2 | <i>Mark Fox</i> | <i>[Signature]</i> | 5-20-2004 |

| TROJAN FINAL SURVEY | | | |
|----------------------------|---------------------------------------|---------------|----------|
| MAP NO. | S05067C2 | REVISION NO. | 00 |
| PREPARED BY | R. C. RAYMOND | REVISION DATE | 11-24-03 |
| CHECKED BY | T. RUIZ | DWG REFERENCE | A-7B |
| AREA/COMPONENT DESCRIPTION | WASTE GAS DECAY TANKS ELEVATION VIEWS | | |

FINAL SURVEY RESULTS SUMMARY

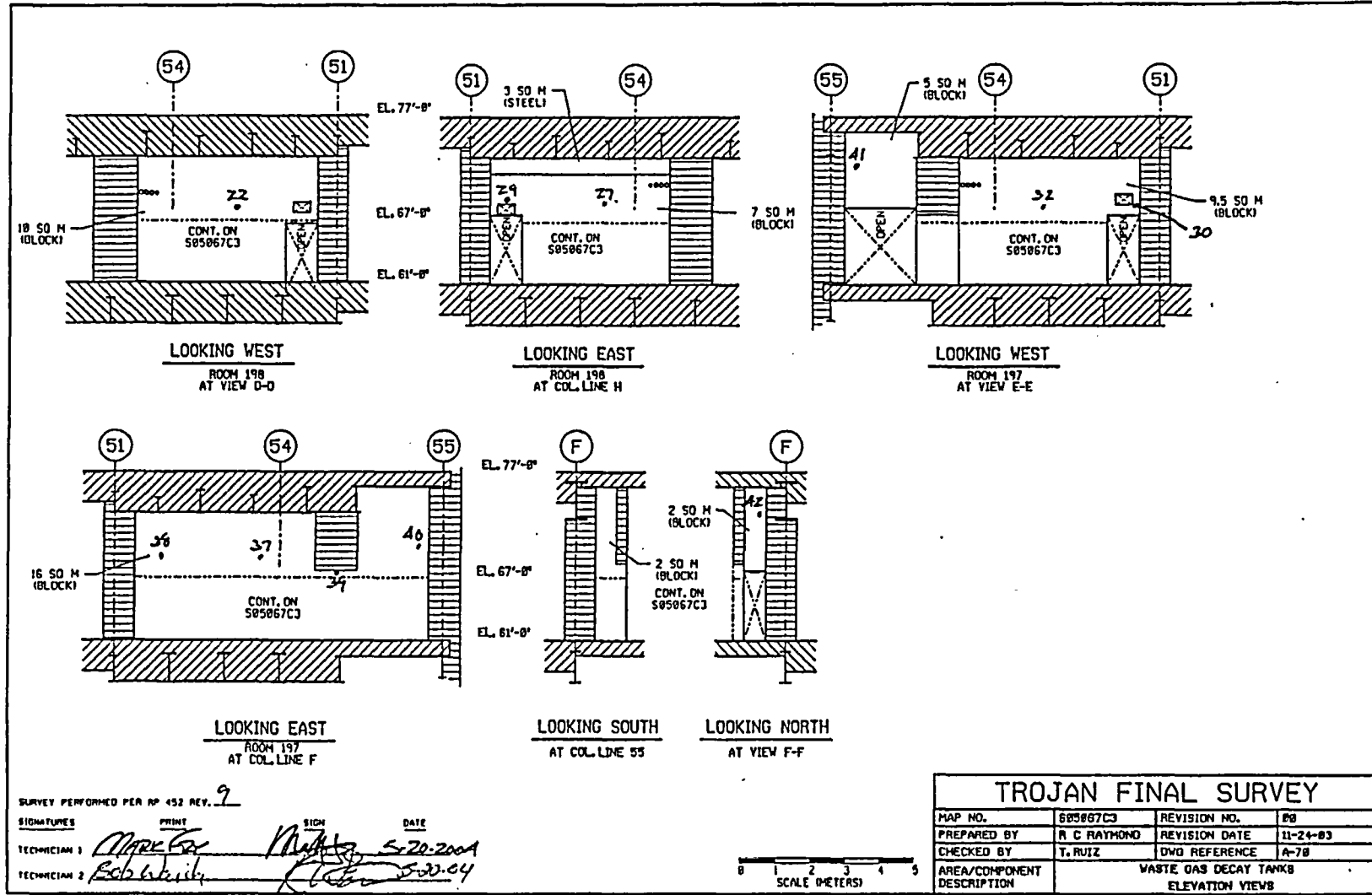
Survey Unit ID Code: S05067C

Classification: Class 2

Survey Unit Name: AB 67' Elevation - Waste Gas Decay Tank Rooms Upper Walls and Ceiling

Size (m²): 258

Static Measurement Location Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05067E

Classification: Class 2

Survey Unit Name: AB 67' Elevation -

Size (m²): 132

Waste Gas Compressor Rooms Upper Walls and Ceiling

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|-----------------------|------------|-------------------------|------------|-----|-----|
| 1 | 34 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 7.093e+002
 Maximum Value : 1.034e+003
 Range : 3.247e+002
 Median : 8.663e+002
 Std. Deviation : 8.022e+001
 Mean : 8.715e+002
 95% UCL : 8.948e+002

Measurement Values

| Location | Value | Location | Value |
|----------|------------|----------|------------|
| 000001 | 7.402e+002 | 000018 | 9.163e+002 |
| 000002 | 8.394e+002 | 000019 | 9.892e+002 |
| 000003 | 8.738e+002 | 000020 | 8.665e+002 |
| 000004 | 9.005e+002 | 000021 | 8.933e+002 |
| 000005 | 8.547e+002 | 000022 | 8.550e+002 |
| 000006 | 1.034e+003 | 000023 | 9.087e+002 |
| 000007 | 7.593e+002 | 000024 | 7.937e+002 |
| 000008 | 8.661e+002 | 000025 | 9.010e+002 |
| 000009 | 8.242e+002 | 000026 | 7.093e+002 |
| 000010 | 9.272e+002 | 000027 | 9.317e+002 |
| 000011 | 8.509e+002 | 000028 | 1.012e+003 |
| 000012 | 8.127e+002 | 000029 | 9.240e+002 |
| 000013 | 9.959e+002 | 000030 | 9.087e+002 |
| 000014 | 7.400e+002 | 000031 | 9.432e+002 |
| 000015 | 8.550e+002 | 000032 | 9.547e+002 |
| 000016 | 7.553e+002 | 000033 | 7.898e+002 |
| 000017 | 8.550e+002 | 000034 | 8.512e+002 |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05067E

Classification: Class 2

Survey Unit Name: AB 67' Elevation -

Size (m²): 132

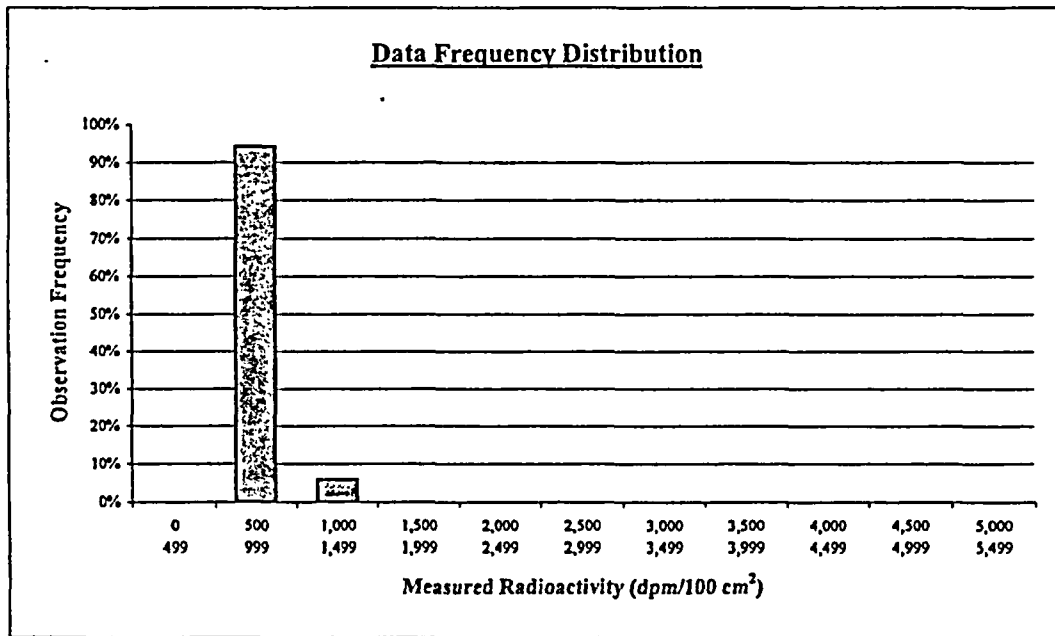
Waste Gas Compressor Rooms Upper Walls and Ceiling

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | |
|-------------------------|------------------|---------------------|-------------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? |
| Range | 325 | 401 | Pass |
| Median | 0.063 | 0.500 | Pass |
| Mean | 872 | 6,000 | Pass |
| Std Dev | 80 | 1,500 | Pass |

| Statistical Quantities | |
|------------------------|-------|
| Range: | 325 |
| Median: | 867 |
| Mean: | 872 |
| Std Dev: | 80 |
| Minimum: | 709 |
| Maximum: | 1,034 |
| DCGL: | 7,500 |

All data less than DCGL; Sign statistical test not required.



| Plot Parameters | |
|---------------------|-------|
| # of measurements: | 34 |
| # of intervals: | 11 |
| Interval increment: | 500 |
| Minimum: | 0 |
| Maximum: | 5,499 |

Comment:
None.

| Interval | High End | Low End | Number of Observations | Observation Frequency |
|----------|----------|---------|------------------------|-----------------------|
| 1 | 499 | 0 | 0 | 0% |
| 2 | 999 | 500 | 32 | 94% |
| 3 | 1,499 | 1,000 | 2 | 6% |
| 4 | 1,999 | 1,500 | 0 | 0% |
| 5 | 2,499 | 2,000 | 0 | 0% |
| 6 | 2,999 | 2,500 | 0 | 0% |
| 7 | 3,499 | 3,000 | 0 | 0% |
| 8 | 3,999 | 3,500 | 0 | 0% |
| 9 | 4,499 | 4,000 | 0 | 0% |
| 10 | 4,999 | 4,500 | 0 | 0% |
| 11 | 5,499 | 5,000 | 0 | 0% |
| Total: | | | 34 | 100% |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05067E

Classification: Class 2

Survey Unit Name: AB 67' Elevation –

Size (m²): 132

Waste Gas Compressor Rooms Upper Walls and Ceiling

Judgmental and Miscellaneous Data

Measurement Type: Surface Scanning Beta

Scan Coverage (%): 30

Measurement Units: dpm/100cm²

Investigation Level: 7,500

Minimum Value: 880

Maximum Value: 7,227

Measurement Type: Removable Beta

Number of Measurements: 34

Measurement Units: dpm/100cm²

Investigation Level: 750

Minimum Value: 40

Maximum Value: 85

Discussion of Anomalous Measurement Data

Investigation Summary

No investigation required for this survey unit. No anomalous measurement data.

FINAL SURVEY RESULTS SUMMARY

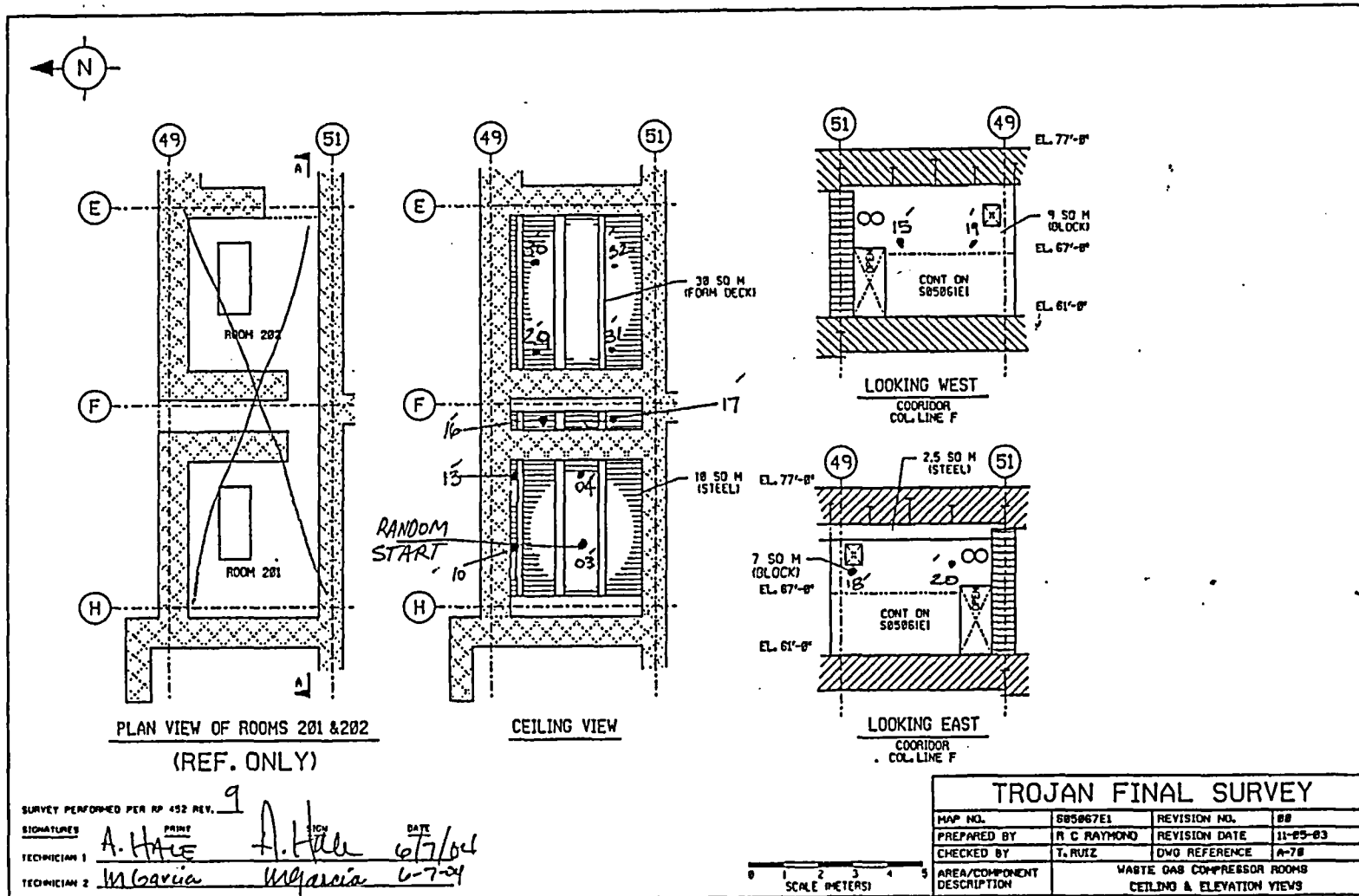
Survey Unit ID Code: S05067E

Survey Unit Name: AB 67' Elevation - Waste Gas Compressor Rooms Upper Walls and Ceiling

Classification: Class 2

Size (m²): 132

Static Measurement Location Map



FINAL SURVEY RESULTS SUMMARY

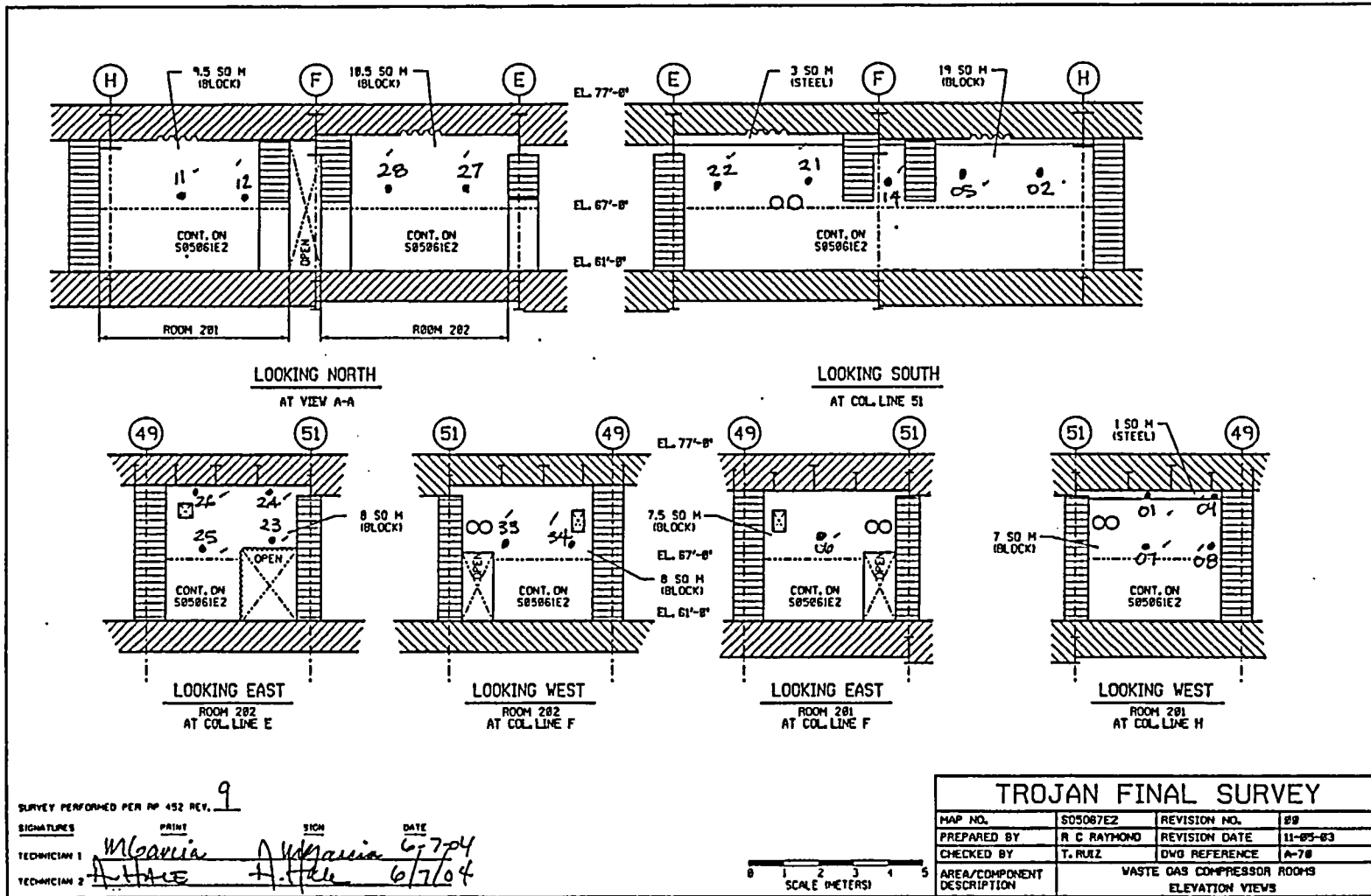
Survey Unit ID Code: S05067E

Survey Unit Name: AB 67' Elevation - Waste Gas Compressor Rooms Upper Walls and Ceiling

Classification: Class 2

Size (m²): 132

Static Measurement Location Map



SURVEY PERFORMED PER RP 452 REV. 9

| SIGNATURES | PRINT | SIGN | DATE |
|--------------|-----------|-------------|--------|
| TECHNICIAN 1 | M. Garcia | [Signature] | 6/7/04 |
| TECHNICIAN 2 | A. HALL | [Signature] | 6/7/04 |

| TROJAN FINAL SURVEY | | | |
|----------------------------|--|---------------|----------|
| MAP NO. | S05067E2 | REVISION NO. | #0 |
| PREPARED BY | R. C. RAYMOND | REVISION DATE | 11-05-03 |
| CHECKED BY | T. RUIZ | DWG REFERENCE | A-70 |
| AREA/COMPONENT DESCRIPTION | WASTE GAS COMPRESSOR ROOMS ELEVATION VIEWS | | |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05070S
 Survey Unit Name: AB 70' Elevation -
 East RHR Vertical Pipe Chase Ceiling

Classification: Class 2
 Size (m²): 10

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|--------------------------|---------------|-------------------------|------------|-----|-----|
| 1 | 35 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 7.636e+002
 Maximum Value : 9.968e+002
 Range : 2.332e+002
 Median : 8.726e+002
 Std. Deviation : 5.591e+001
 Mean : 8.760e+002
 95% UCL : 8.919e+002

Measurement Values

| Location | Value | Location | Value | Location | Value |
|----------|------------|----------|------------|----------|------------|
| 000001 | 9.065e+002 | 000018 | 8.538e+002 | 000035 | 9.253e+002 |
| 000002 | 8.614e+002 | 000019 | 8.350e+002 | | |
| 000003 | 9.178e+002 | 000020 | 8.049e+002 | | |
| 000004 | 8.237e+002 | 000021 | 8.726e+002 | | |
| 000005 | 9.817e+002 | 000022 | 8.538e+002 | | |
| 000006 | 8.576e+002 | 000023 | 7.636e+002 | | |
| 000007 | 9.328e+002 | 000024 | 7.711e+002 | | |
| 000008 | 9.253e+002 | 000025 | 8.689e+002 | | |
| 000009 | 8.425e+002 | 000026 | 8.576e+002 | | |
| 000010 | 8.275e+002 | 000027 | 8.764e+002 | | |
| 000011 | 8.990e+002 | 000028 | 9.629e+002 | | |
| 000012 | 7.786e+002 | 000029 | 9.328e+002 | | |
| 000013 | 8.425e+002 | 000030 | 9.103e+002 | | |
| 000014 | 8.877e+002 | 000031 | 9.968e+002 | | |
| 000015 | 9.366e+002 | 000032 | 8.990e+002 | | |
| 000016 | 8.162e+002 | 000033 | 8.802e+002 | | |
| 000017 | 8.689e+002 | 000034 | 8.877e+002 | | |

FINAL SURVEY RESULTS SUMMARY

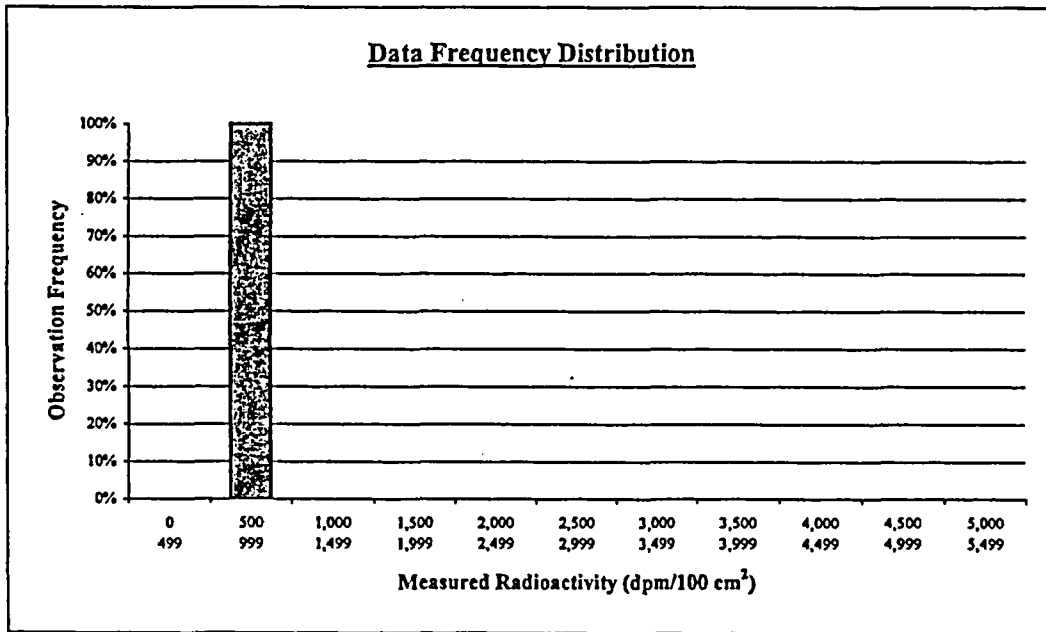
Survey Unit ID Code: S05070S
 Survey Unit Name: AB 70' Elevation -
 East RHR Vertical Pipe Chase Ceiling

Classification: Class 2
 Size (m²): 10

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | | Statistical Quantities | |
|-------------------------|------------------|---------------------|-------------|------------------------|-------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? | | |
| Range | 233 | 279 | Pass | Range: | 233 |
| Median | 0.056 | 0.500 | Pass | Median: | 873 |
| Mean | 876 | 6,000 | Pass | Mean: | 876 |
| Std Dev | 56 | 1,500 | Pass | Std Dev: | 56 |
| | | | | Minimum: | 764 |
| | | | | Maximum: | 997 |
| | | | | DCGL: | 7,500 |

All data less than DCGL; Sign statistical test not required.



| Plot Parameters | | Number of Observations | | | | Observation Frequency |
|---------------------|-------|------------------------|----------|---------|--------------|-----------------------|
| | | Interval | High End | Low End | Observations | Frequency |
| # of measurements: | 35 | 1 | 499 | 0 | 0 | 0% |
| # of intervals: | 11 | 2 | 999 | 500 | 35 | 100% |
| Interval increment: | 500 | 3 | 1,499 | 1,000 | 0 | 0% |
| Minimum: | 0 | 4 | 1,999 | 1,500 | 0 | 0% |
| Maximum: | 5,499 | 5 | 2,499 | 2,000 | 0 | 0% |
| | | 6 | 2,999 | 2,500 | 0 | 0% |
| | | 7 | 3,499 | 3,000 | 0 | 0% |
| | | 8 | 3,999 | 3,500 | 0 | 0% |
| | | 9 | 4,499 | 4,000 | 0 | 0% |
| | | 10 | 4,999 | 4,500 | 0 | 0% |
| | | 11 | 5,499 | 5,000 | 0 | 0% |
| | | Total: | | | 35 | 100% |

Comment:
None.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05070S

Classification: Class 2

Survey Unit Name: AB 70' Elevation –

Size (m²): 10

East RHR Vertical Pipe Chase Ceiling

Judgmental and Miscellaneous Data

Measurement Type: Surface Scanning Beta

Scan Coverage (%): 35

Measurement Units: dpm/100cm²

Investigation Level: 7,500

Minimum Value: 1,130

Maximum Value: 1,382

Measurement Type: Removable Beta

Number of Measurements: 35

Measurement Units: dpm/100cm²

Investigation Level: 750

Minimum Value: 6

Maximum Value: 18

Discussion of Anomalous Measurement Data

Investigation Summary

No investigation required for this survey unit. No anomalous measurement data.

FINAL SURVEY RESULTS SUMMARY

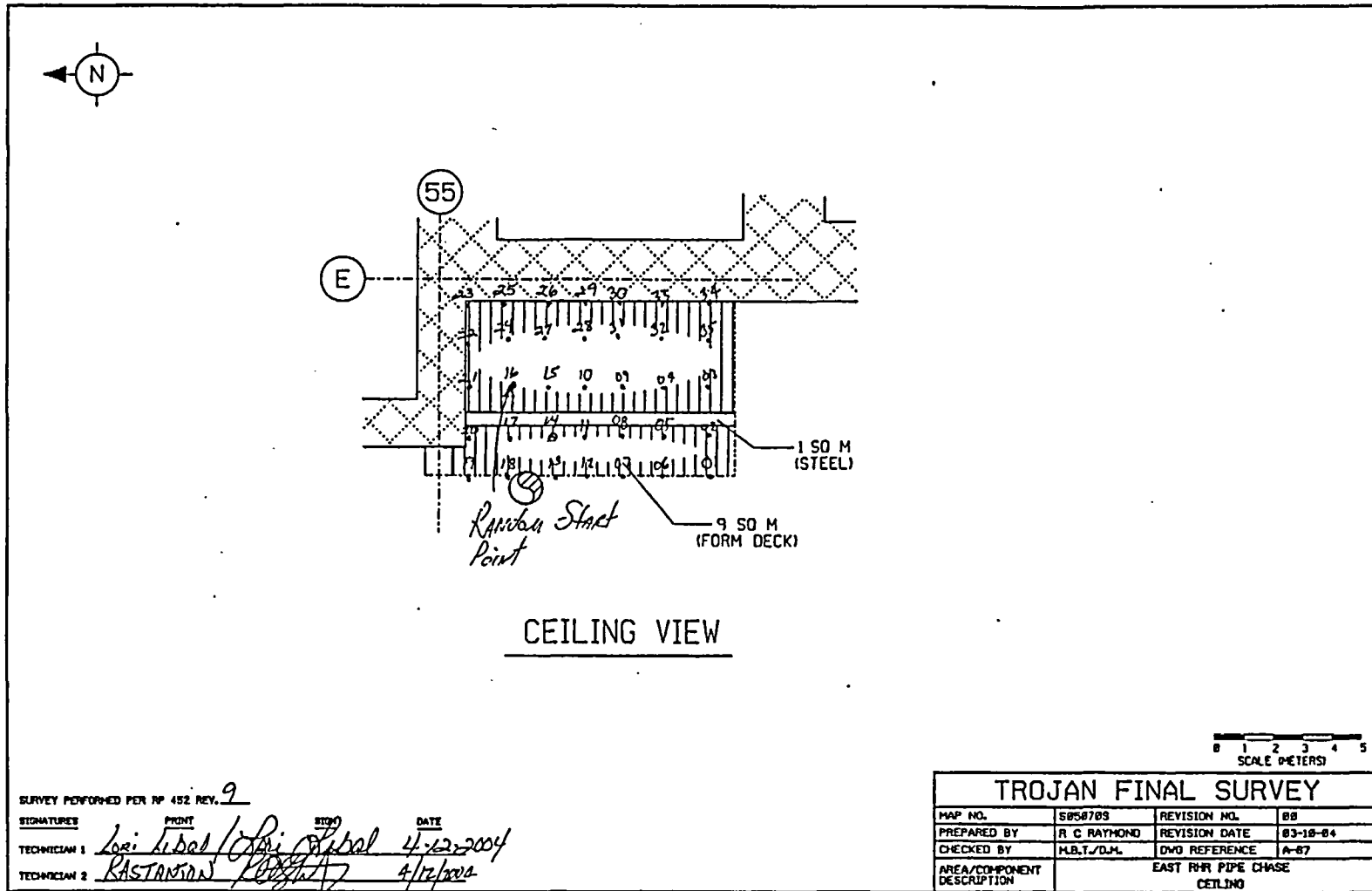
Survey Unit ID Code: S05070S

Survey Unit Name: AB 70' Elevation - East RHR Vertical Pipe Chase Ceiling

Classification: Class 2

Size (m²): 10

Static Measurement Location Map



SURVEY PERFORMED PER MP 452 REV. 9

| SIGNATURE | PRINT | SIGN | DATE |
|--------------------|--------------------------|--------------------|-----------|
| <i>[Signature]</i> | Loei Libal / [Signature] | <i>[Signature]</i> | 4-12-2004 |
| TECHNICIAN 2 | RASTANSIAN | <i>[Signature]</i> | 4/12/2004 |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05070T
 Survey Unit Name: AB 70' Elevation -
 West RHR Vertical Pipe Chase Ceiling

Classification: Class 2
 Size (m²): 17

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|--------------------------|---------------|-------------------------|------------|-----|-----|
| 1 | 30 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 5.765e+002
 Maximum Value : 9.753e+002
 Range : 3.988e+002
 Median : 7.660e+002
 Std. Deviation : 9.617e+001
 Mean : 7.801e+002
 95% UCL : 8.099e+002

Measurement Values

| Location | Value | Location | Value |
|----------|------------|----------|------------|
| 000001 | 5.765e+002 | 000018 | 6.712e+002 |
| 000002 | 6.436e+002 | 000019 | 8.450e+002 |
| 000003 | 7.028e+002 | 000020 | 8.173e+002 |
| 000004 | 8.647e+002 | 000021 | 8.924e+002 |
| 000005 | 8.687e+002 | 000022 | 7.581e+002 |
| 000006 | 7.660e+002 | 000023 | 7.621e+002 |
| 000007 | 8.450e+002 | 000024 | 7.818e+002 |
| 000008 | 8.055e+002 | 000025 | 7.226e+002 |
| 000009 | 8.213e+002 | 000026 | 7.186e+002 |
| 000010 | 9.753e+002 | 000027 | 7.621e+002 |
| 000011 | 7.305e+002 | 000028 | 6.712e+002 |
| 000012 | 8.766e+002 | 000029 | 8.094e+002 |
| 000013 | 6.673e+002 | 000030 | 9.082e+002 |
| 000014 | 7.423e+002 | | |
| 000015 | 7.660e+002 | | |
| 000016 | 9.674e+002 | | |
| 000017 | 6.633e+002 | | |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05070T

Classification: Class 2

Survey Unit Name: AB 70' Elevation -

Size (m²): 17

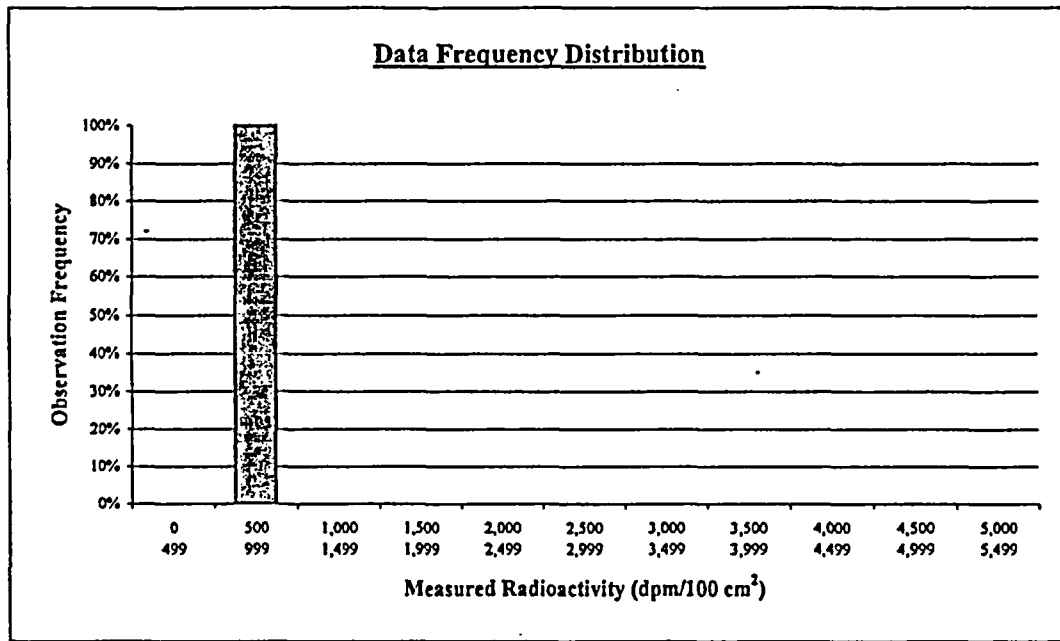
West RHR Vertical Pipe Chase Ceiling

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | |
|-------------------------|------------------|---------------------|-------------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? |
| Range | 398 | 480 | Pass |
| Median | 0.147 | 0.500 | Pass |
| Mean | 780 | 6,000 | Pass |
| Std Dev | 96 | 1,500 | Pass |

| Statistical Quantities | |
|------------------------|-------|
| Range: | 398 |
| Median: | 766 |
| Mean: | 780 |
| Std Dev: | 96 |
| Minimum: | 577 |
| Maximum: | 975 |
| DCGL: | 7,500 |

All data less than DCGL; Sign statistical test not required.



| Plot Parameters | |
|---------------------|-------|
| # of measurements: | 30 |
| # of intervals: | 11 |
| Interval increment: | 500 |
| Minimum: | 0 |
| Maximum: | 5,499 |

Comment:
None.

| Interval | High End | Low End | Number of Observations | Observation Frequency |
|----------|----------|---------|------------------------|-----------------------|
| 1 | 499 | 0 | 0 | 0% |
| 2 | 999 | 500 | 30 | 100% |
| 3 | 1,499 | 1,000 | 0 | 0% |
| 4 | 1,999 | 1,500 | 0 | 0% |
| 5 | 2,499 | 2,000 | 0 | 0% |
| 6 | 2,999 | 2,500 | 0 | 0% |
| 7 | 3,499 | 3,000 | 0 | 0% |
| 8 | 3,999 | 3,500 | 0 | 0% |
| 9 | 4,499 | 4,000 | 0 | 0% |
| 10 | 4,999 | 4,500 | 0 | 0% |
| 11 | 5,499 | 5,000 | 0 | 0% |
| Total: | | | 30 | 100% |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05070T

Survey Unit Name: AB 70' Elevation –

West RHR Vertical Pipe Chase Ceiling

Classification: Class 2

Size (m²): 17

Judgmental and Miscellaneous Data

Measurement Type: Surface Scanning Beta

Measurement Units: dpm/100cm²

Minimum Value: 998

Scan Coverage (%): 35

Investigation Level: 7,500

Maximum Value: 1,148

Measurement Type: Removable Beta

Measurement Units: dpm/100cm²

Minimum Value: 0

Number of Measurements: 30

Investigation Level: 750

Maximum Value: 23

Discussion of Anomalous Measurement Data

Investigation Summary

No investigation required for this survey unit. No anomalous measurement data.

FINAL SURVEY RESULTS SUMMARY

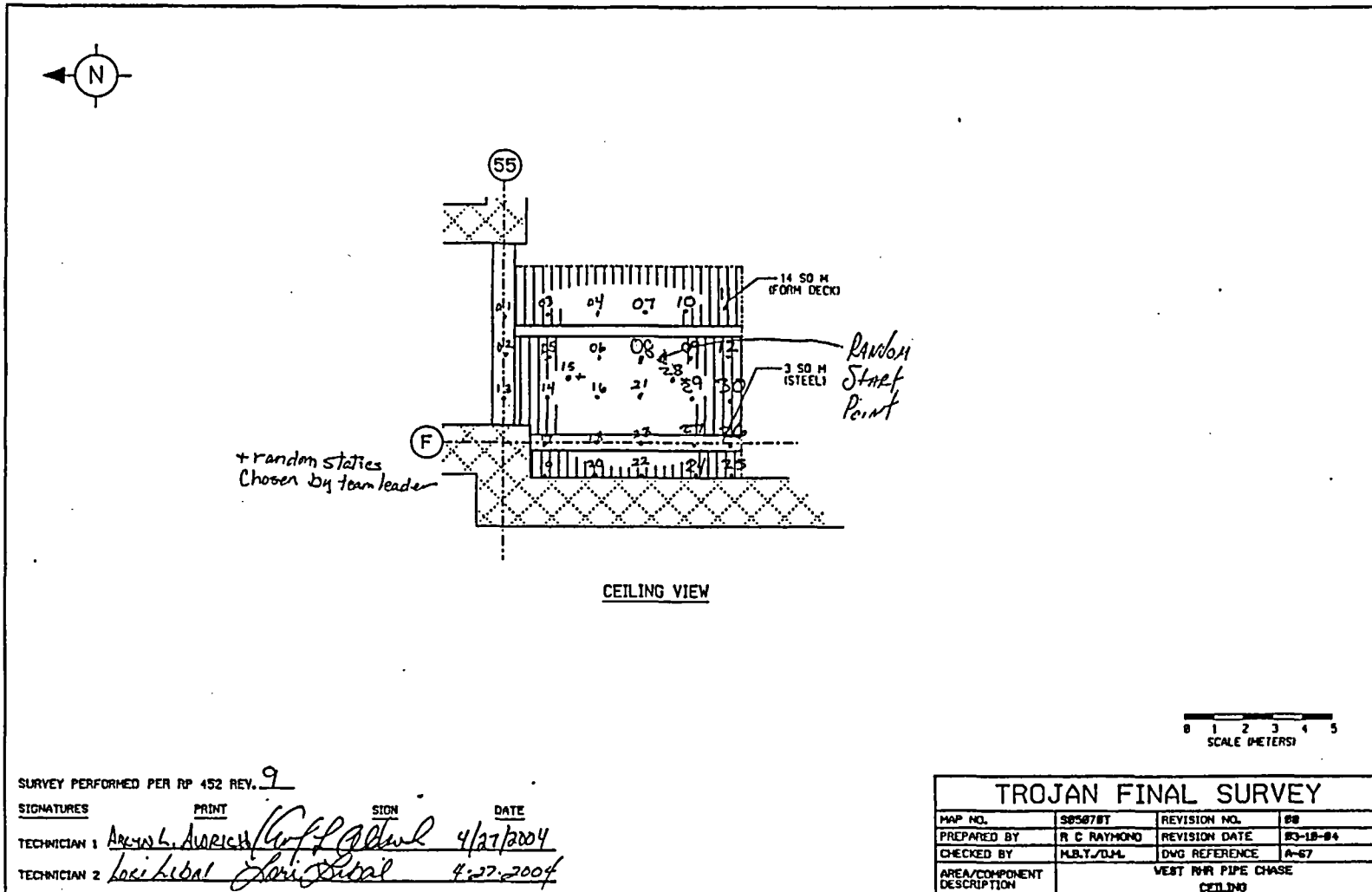
Survey Unit ID Code: S05070T

Survey Unit Name: AB 70' Elevation - West RHR Vertical Pipe Chase Ceiling

Classification: Class 2

Size (m²): 17

Static Measurement Location Map



APPENDIX F

SURVEY UNIT SUMMARY REPORTS – AUXILIARY BUILDING

| <u>Survey Unit ID Code</u> | <u>Page(s)</u> |
|----------------------------|---------------------|
| S05072A | F-2 through F-7 |
| S05075A | F-8 through F-13 |
| S05077A | F-14 through F-17 |
| S05077B..... | F-18 through F-21 |
| S05077C..... | F-22 through F-28 |
| S05077D | F-29 through F-35 |
| S05077E..... | F-36 through F-41 |
| S05077F | F-42 through F-47 |
| S05077G | F-48 through F-51 |
| S05077H | F-52 through F-55 |
| S05077J..... | F-56 through F-60 |
| S05077K | F-61 through F-64 |
| S05077L..... | F-65 through F-68 |
| S05077M..... | F-69 through F-72 |
| S05077Q | F-73 through F-76 |
| S05077R..... | F-77 through F-80 |
| S05077S..... | F-81 through F-84 |
| S05077T | F-85 through F-88 |
| S05077U | F-89 through F-92 |
| S05077V | F-93 through F-96 |
| S05077W | F-97 through F-100 |
| S05077X | F-101 through F-104 |
| S05077Y | F-105 through F-108 |
| S05077Z..... | F-109 through F-112 |
| S05083A | F-113 through F-118 |
| S05083B..... | F-119 through F-122 |
| S05083C..... | F-123 through F-126 |
| S05083D | F-127 through F-132 |
| S05083E..... | F-133 through F-138 |
| S05089A | F-139 through F-143 |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05072A

Classification: Class 1

Survey Unit Name: AB 72' Elevation -

Size (m²): 267

West Boric Acid Evaporator Room Floor and Lower Walls

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|-----------------------|------------|-------------------------|------------|-----|-----|
| 1 | 33 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 4.388e+002
 Maximum Value : 2.438e+003
 Range : 1.999e+003
 Median : 9.043e+002
 Std. Deviation : 6.102e+002
 Mean : 1.249e+003
 95% UCL : 1.429e+003

Measurement Values

| Location | Value | Location | Value |
|----------|------------|----------|------------|
| 000001 | 8.242e+002 | 000018 | 1.198e+003 |
| 000002 | 8.471e+002 | 000019 | 8.738e+002 |
| 000003 | 8.433e+002 | 000020 | 9.348e+002 |
| 000004 | 8.013e+002 | 000021 | 8.051e+002 |
| 000005 | 8.356e+002 | 000022 | 8.967e+002 |
| 000006 | 9.043e+002 | 000023 | 8.165e+002 |
| 000007 | 1.293e+003 | 000024 | 4.388e+002 |
| 000008 | 1.210e+003 | 000025 | 2.083e+003 |
| 000009 | 1.454e+003 | 000026 | 1.721e+003 |
| 000010 | 1.076e+003 | 000027 | 2.438e+003 |
| 000011 | 8.661e+002 | 000028 | 2.203e+003 |
| 000012 | 8.356e+002 | 000029 | 2.019e+003 |
| 000013 | 6.563e+002 | 000030 | 2.413e+003 |
| 000014 | 8.623e+002 | 000031 | 2.089e+003 |
| 000015 | 7.440e+002 | 000032 | 2.349e+003 |
| 000016 | 7.822e+002 | 000033 | 2.210e+003 |
| 000017 | 9.081e+002 | | |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05072A

Classification: Class 1

Survey Unit Name: AB 72' Elevation –

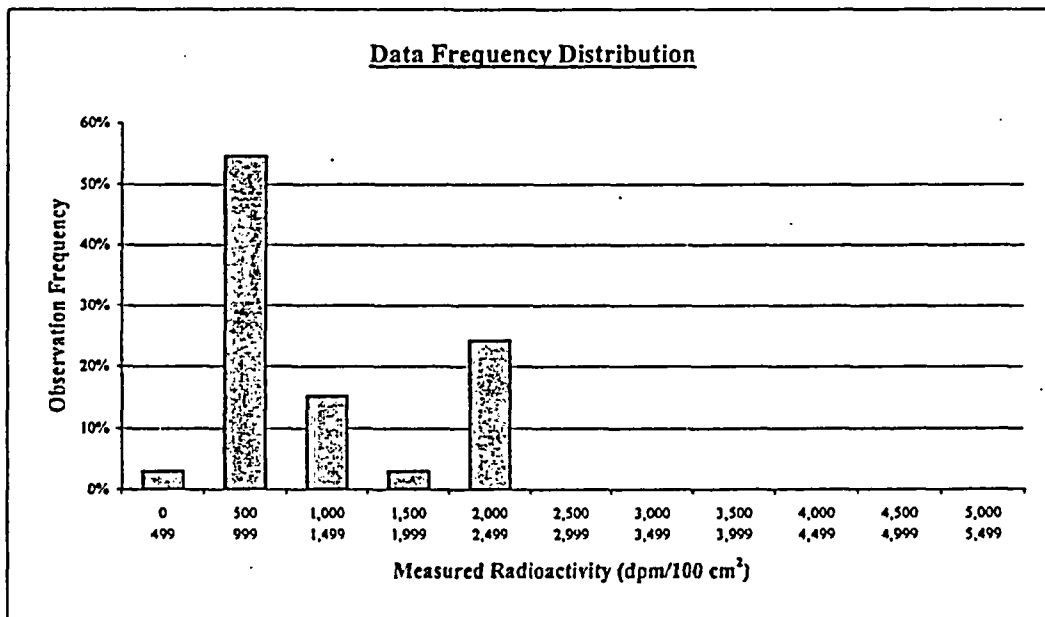
Size (m²): 267

West Boric Acid Evaporator Room Floor and Lower Walls

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | | Statistical Quantities | |
|-------------------------|------------------|---------------------|-------------------|------------------------|-------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? | | |
| Range | 1,999 | 3,051 | Pass | Range: | 1,999 |
| Median | 0.566 | 0.500 | See comment below | Median: | 904 |
| Mean | 1,249 | 6,000 | Pass | Mean: | 1,249 |
| Std Dev | 610 | 1,500 | Pass | Std Dev: | 610 |
| | | | | Minimum: | 439 |
| | | | | Maximum: | 2,438 |
| | | | | DCGL: | 7,500 |

All data less than DCGL; Sign statistical test not required.



| Plot Parameters | | Interval | High End | Low End | Number of Observations | Observation Frequency |
|---------------------|-------|----------|----------|---------|------------------------|-----------------------|
| # of measurements: | 33 | 1 | 499 | 0 | 1 | 3% |
| # of intervals: | 11 | 2 | 999 | 500 | 18 | 55% |
| Interval increment: | 500 | 3 | 1,499 | 1,000 | 5 | 15% |
| Minimum: | 0 | 4 | 1,999 | 1,500 | 1 | 3% |
| Maximum: | 5,499 | 5 | 2,499 | 2,000 | 8 | 24% |
| | | 6 | 2,999 | 2,500 | 0 | 0% |
| | | 7 | 3,499 | 3,000 | 0 | 0% |
| | | 8 | 3,999 | 3,500 | 0 | 0% |
| | | 9 | 4,499 | 4,000 | 0 | 0% |
| | | 10 | 4,999 | 4,500 | 0 | 0% |
| | | 11 | 5,499 | 5,000 | 0 | 0% |
| | | Total: | | | 33 | 100% |

Comment:
 The data set contains values from both smooth and scabbled concrete surfaces, resulting in an expected bimodal distribution, due to different detector efficiency factors for the 2 geometries. The test failure does not represent an invalid data set. This statistical comparison is not meaningful for an expected bimodal distribution. All measurement values are valid and accepted.

FINAL SURVEY RESULTS SUMMARY

| | |
|--|----------------------------------|
| Survey Unit ID Code: S05072A | Classification: Class 1 |
| Survey Unit Name: AB 72' Elevation – West Boric Acid Evaporator Room Floor and Lower Walls | Size (m²): 267 |

Judgmental and Miscellaneous Data

| | |
|--|-----------------------------------|
| Measurement Type: Surface Scanning Beta | Scan Coverage (%): 100 |
| Measurement Units: dpm/100cm ² | Investigation Level: 7,500 |
| Minimum Value: 733 | Maximum Value: 10,140 |

| | |
|--|-----------------------------------|
| Measurement Type: Removable Beta | Number of Measurements: 33 |
| Measurement Units: dpm/100cm ² | Investigation Level: 750 |
| Minimum Value: 39 | Maximum Value: 79 |

Discussion of Anomalous Measurement Data

Investigation Summary

Reason for Investigation: Sixteen scan measurements exceeded the investigation level.

Elevated Measurement Comparison (EMC):

| | |
|--|------------------------|
| DCGL (Investigation Level): | 7,500 |
| Measurement Units: | dpm/100cm ² |
| Maximum Value: | 39,560 |
| Size of Area Exceeding DCGL (m ²): | 0.138 |
| Size of Survey Unit (m ²): | 267 |
| Survey Unit Area >DCGL (%): | 0.05 |
| EMC Value: | 36,750 |

Action Taken: Corrected measurement values for scan locations per guidance in memo FS-018-03; used similar method for elevated scan measurements obtained with a 43-68 gas flow proportional detector. Deleted scan results for areas to be remediated. Replaced original scan results in SDMS with the corrected results for the others. Rescanned remediated areas. Applied EMC data processing to corrected results that remain elevated.

Basis for Action Taken: Technical basis memorandum FS-018-03 provides guidance for correcting SDMS determined scan results for locations that exceed the investigation level by subtracting instrument background from the field results.

FINAL SURVEY RESULTS SUMMARY

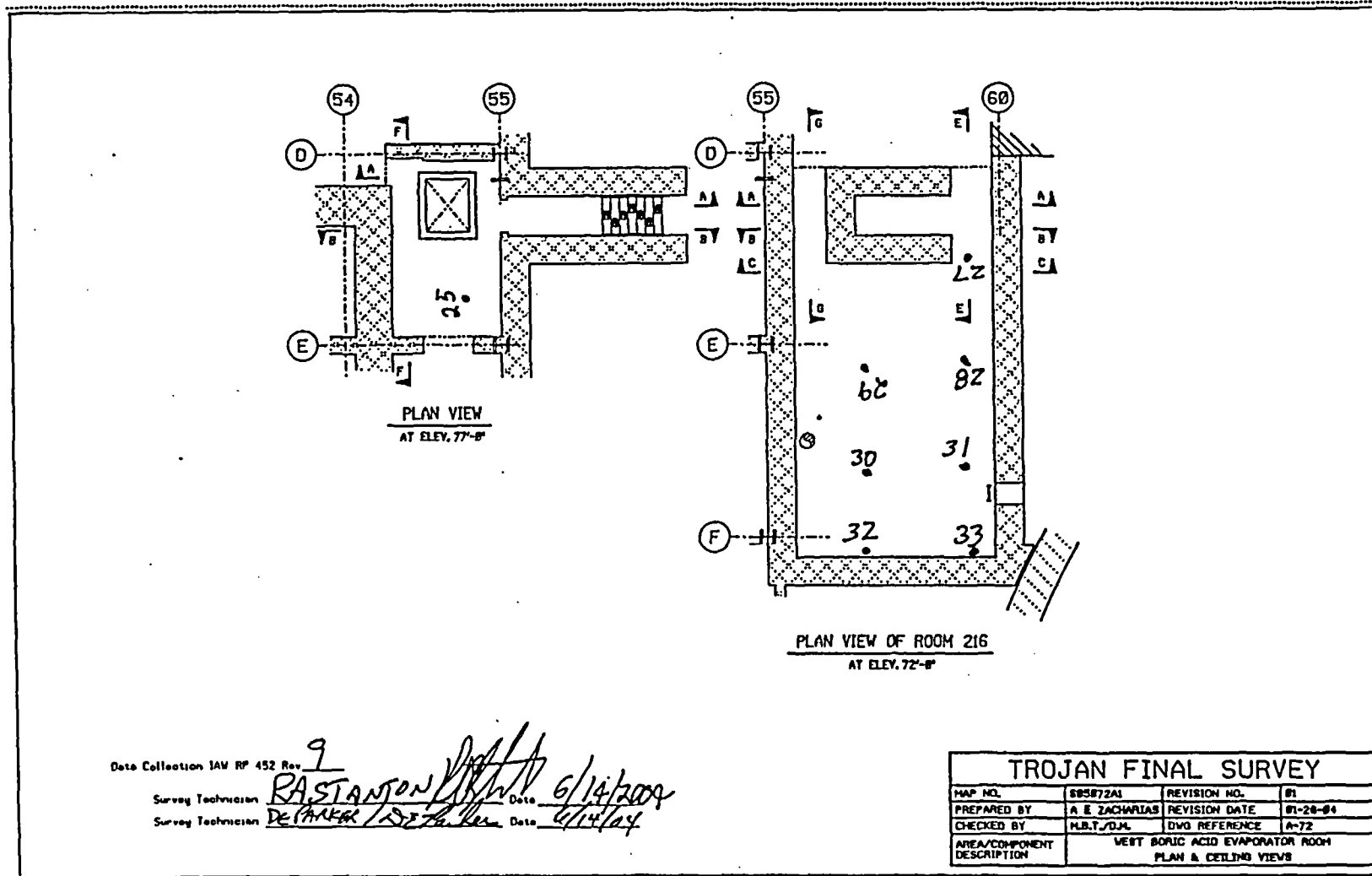
Survey Unit ID Code: S05072A

Survey Unit Name: AB 72' Elevation - West Boric Acid Evaporator Room Floor and Lower Walls

Classification: Class 1

Size (m²): 267

Static Measurement Location Map



FINAL SURVEY RESULTS SUMMARY

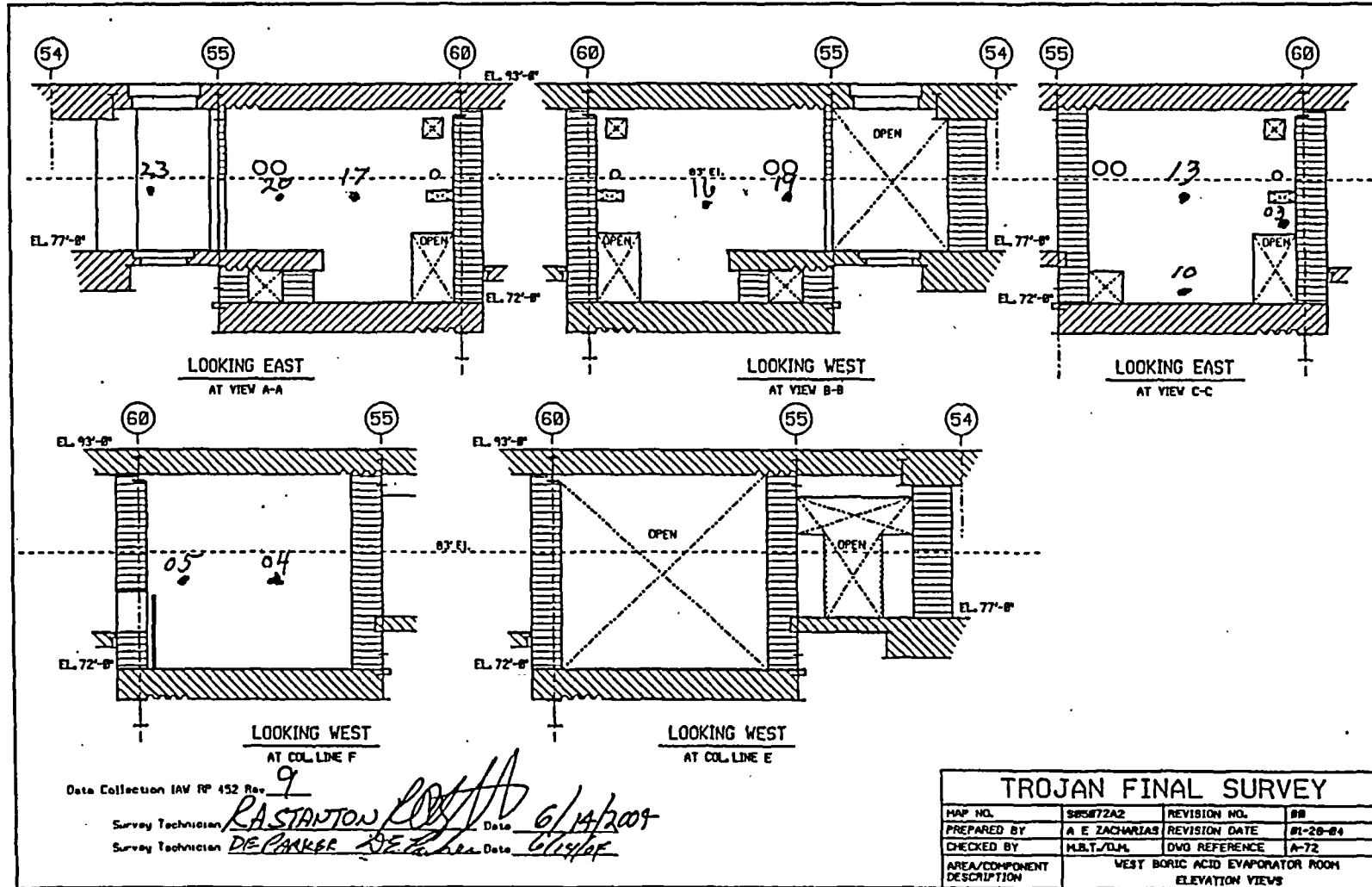
Survey Unit ID Code: S05072A

Survey Unit Name: AB 72' Elevation - West Boric Acid Evaporator Room Floor and Lower Walls

Classification: Class 1

Size (m²): 267

Static Measurement Location Map



FINAL SURVEY RESULTS SUMMARY

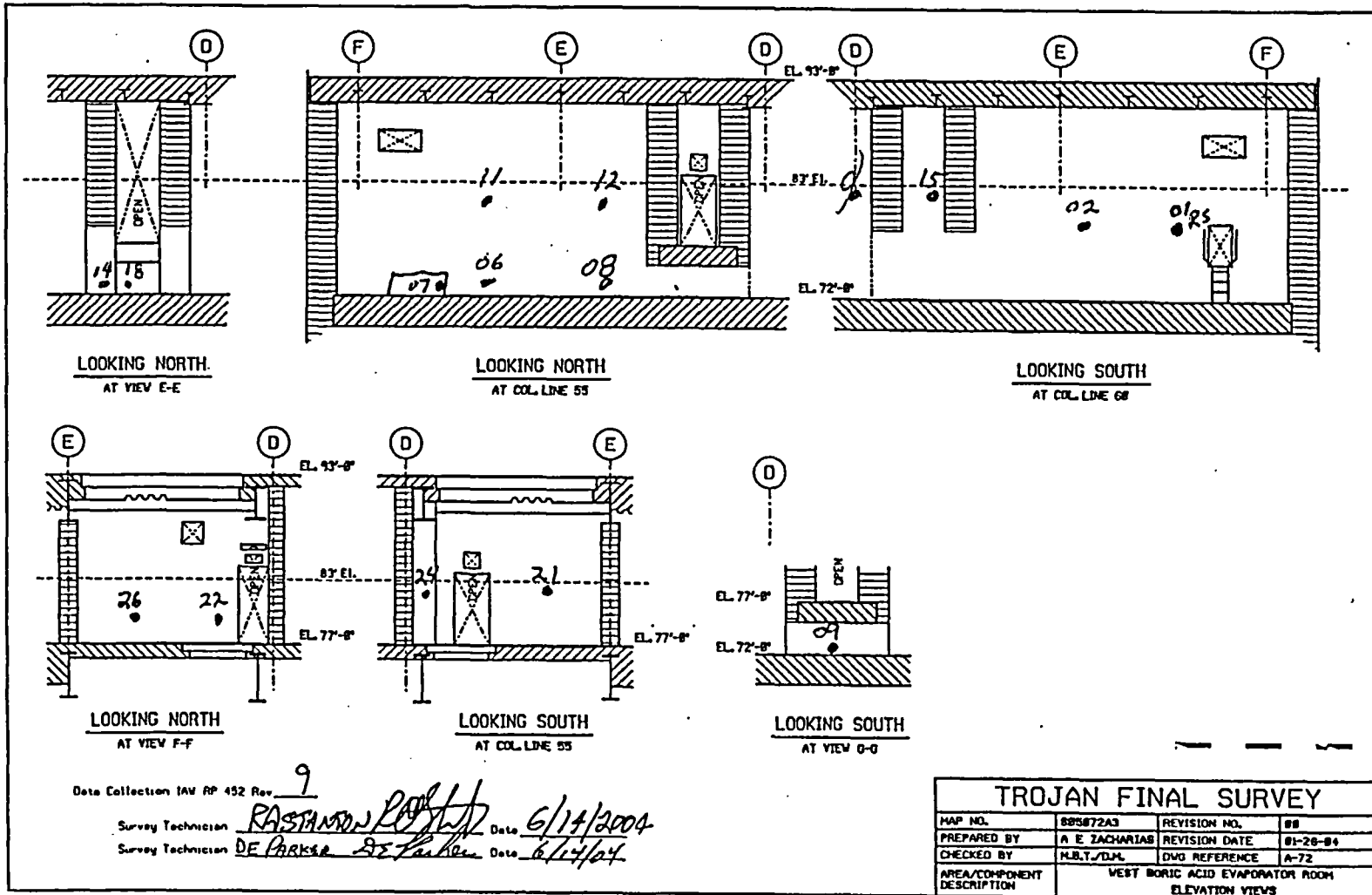
Survey Unit ID Code: S05072A

Survey Unit Name: AB 72' Elevation - West Boric Acid Evaporator Room Floor and Lower Walls

Classification: Class 1

Size (m²): 267

Static Measurement Location Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05075A

Classification: Class 1

Survey Unit Name: AB 77' Elevation -

Size (m²): 219

CCW Surge Tank Area Floor and Lower Walls

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|-----------------------|------------|-------------------------|------------|-----|-----|
| 1 | 30 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 6.203e+002
 Maximum Value : 2.162e+003
 Range : 1.542e+003
 Median : 1.164e+003
 Std. Deviation : 5.470e+002
 Mean : 1.358e+003
 95% UCL : 1.528e+003

Measurement Values

| Location | Value | Location | Value |
|----------|------------|----------|------------|
| 000001 | 1.807e+003 | 000018 | 1.133e+003 |
| 000002 | 2.129e+003 | 000019 | 1.148e+003 |
| 000003 | 2.116e+003 | 000020 | 7.397e+002 |
| 000004 | 1.942e+003 | 000021 | 1.167e+003 |
| 000005 | 2.065e+003 | 000022 | 8.476e+002 |
| 000006 | 2.071e+003 | 000023 | 9.670e+002 |
| 000007 | 2.162e+003 | 000024 | 8.168e+002 |
| 000008 | 2.065e+003 | 000025 | 8.630e+002 |
| 000009 | 2.013e+003 | 000026 | 1.333e+003 |
| 000010 | 2.162e+003 | 000027 | 7.397e+002 |
| 000011 | 1.164e+003 | 000028 | 1.661e+003 |
| 000012 | 1.164e+003 | 000029 | 1.098e+003 |
| 000013 | 1.071e+003 | 000030 | 6.203e+002 |
| 000014 | 1.164e+003 | | |
| 000015 | 1.183e+003 | | |
| 000016 | 6.318e+002 | | |
| 000017 | 7.012e+002 | | |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05075A

Classification: Class 1

Survey Unit Name: AB 77' Elevation -

Size (m²): 219

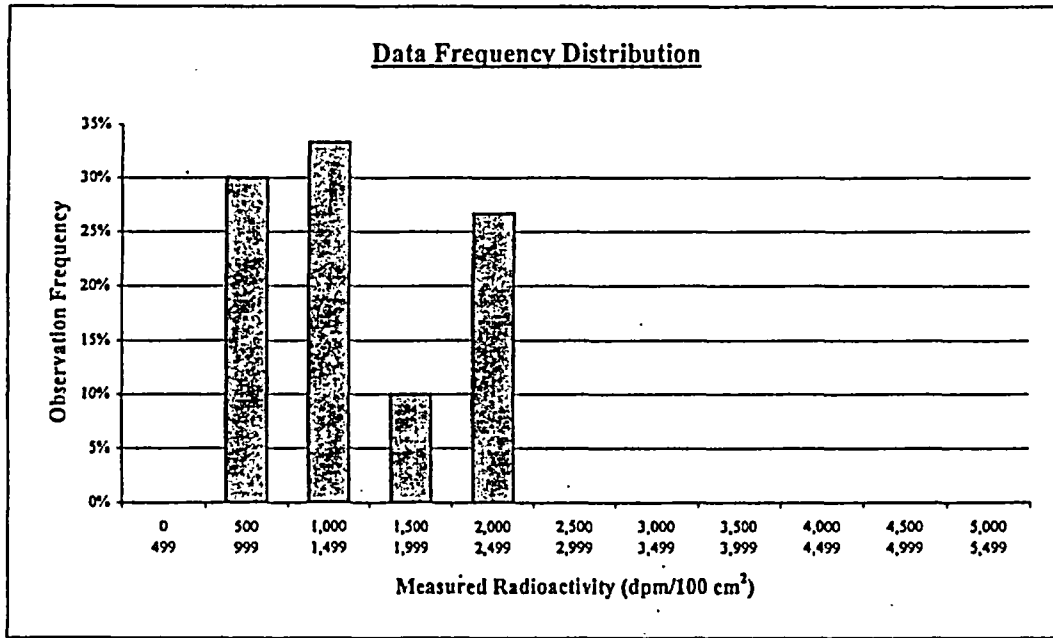
CCW Surge Tank Area Floor and Lower Walls

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | |
|-------------------------|------------------|---------------------|-------------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? |
| Range | 1,542 | 2,735 | Pass |
| Median | 0.355 | 0.500 | Pass |
| Mean | 1,358 | 6,000 | Pass |
| Std Dev | 547 | 1,500 | Pass |

| Statistical Quantities | |
|------------------------|-------|
| Range: | 1,542 |
| Median: | 1,164 |
| Mean: | 1,358 |
| Std Dev: | 547 |
| Minimum: | 620 |
| Maximum: | 2,162 |
| DCGL: | 7,500 |

All data less than DCGL; Sign statistical test not required.



| Plot Parameters | |
|---------------------|-------|
| # of measurements: | 30 |
| # of intervals: | 11 |
| Interval increment: | 500 |
| Minimum: | 0 |
| Maximum: | 5,499 |

Comment:
None.

| Interval | High End | Low End | Number of Observations | Observation Frequency |
|----------|----------|---------|------------------------|-----------------------|
| 1 | 499 | 0 | 0 | 0% |
| 2 | 999 | 500 | 9 | 30% |
| 3 | 1,499 | 1,000 | 10 | 33% |
| 4 | 1,999 | 1,500 | 3 | 10% |
| 5 | 2,499 | 2,000 | 8 | 27% |
| 6 | 2,999 | 2,500 | 0 | 0% |
| 7 | 3,499 | 3,000 | 0 | 0% |
| 8 | 3,999 | 3,500 | 0 | 0% |
| 9 | 4,499 | 4,000 | 0 | 0% |
| 10 | 4,999 | 4,500 | 0 | 0% |
| 11 | 5,499 | 5,000 | 0 | 0% |
| Total: | | | 30 | 100% |

FINAL SURVEY RESULTS SUMMARY

| | |
|--|----------------------------------|
| Survey Unit ID Code: S05075A | Classification: Class 1 |
| Survey Unit Name: AB 77' Elevation – CCW Surge Tank Area Floor and Lower Walls | Size (m²): 219 |

Judgmental and Miscellaneous Data

| | |
|--|-----------------------------------|
| Measurement Type: Surface Scanning Beta | Scan Coverage (%): 100 |
| Measurement Units: dpm/100cm ² | Investigation Level: 7,500 |
| Minimum Value: 796 | Maximum Value: 17,440 |

| | |
|--|-----------------------------------|
| Measurement Type: Removable Beta | Number of Measurements: 30 |
| Measurement Units: dpm/100cm ² | Investigation Level: 750 |
| Minimum Value: 45 | Maximum Value: 83 |

Discussion of Anomalous Measurement Data

Investigation Summary

Reason for Investigation: Twelve scan measurements exceeded the investigation level.

Elevated Measurement Comparison (EMC):

| | |
|--|------------------------|
| DCGL (Investigation Level): | 7,500 |
| Measurement Units: | dpm/100cm ² |
| Maximum Value: | 75,270 |
| Size of Area Exceeding DCGL (m ²): | 0.23 |
| Size of Survey Unit (m ²): | 219 |
| Survey Unit Area >DCGL (%): | 0.11 |
| EMC Value: | 36,750 |

Action Taken: Corrected measurement values for scan locations per guidance in memo FS-018-03; used similar method for elevated scan measurements obtained with a 43-68 gas flow proportional detector. Deleted scan results for scan locations 176 & 182 to be remediated. Replaced original scan results in SDMS with the corrected results for the others. Rescanned remediated areas. Applied EMC data processing to corrected results of scan locations 167, 170, & 173 that remain elevated.

Basis for Action Taken: Technical basis memorandum FS-018-03 provides guidance for correcting SDMS determined scan results for locations that exceed the investigation level by subtracting instrument background from the field results.

FINAL SURVEY RESULTS SUMMARY

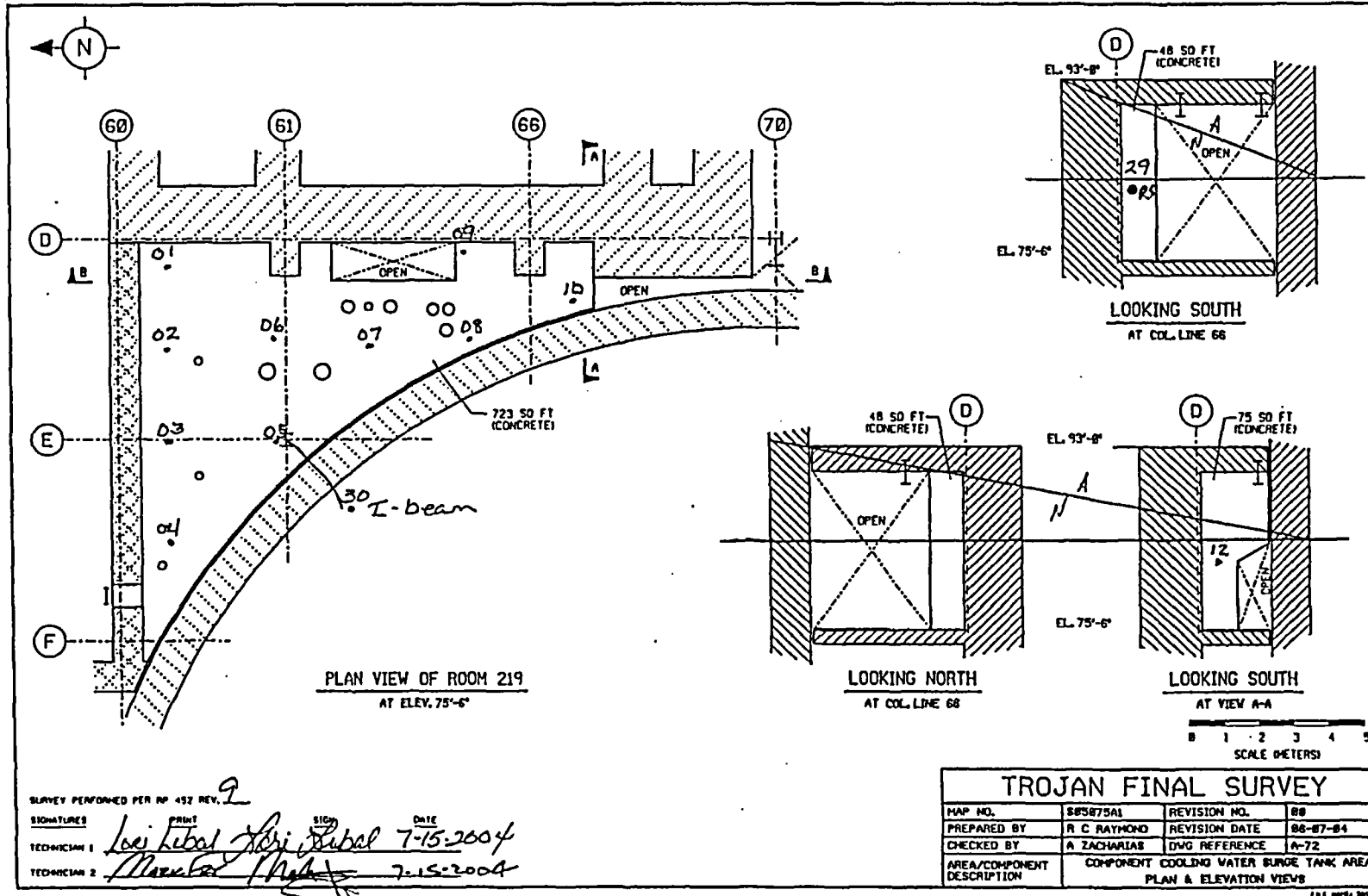
Survey Unit ID Code: S05075A

Survey Unit Name: AB 77' Elevation - CCW Surge Tank Area Floor and Lower Walls

Classification: Class 1

Size (m²): 219

Static Measurement Location Map



FINAL SURVEY RESULTS SUMMARY

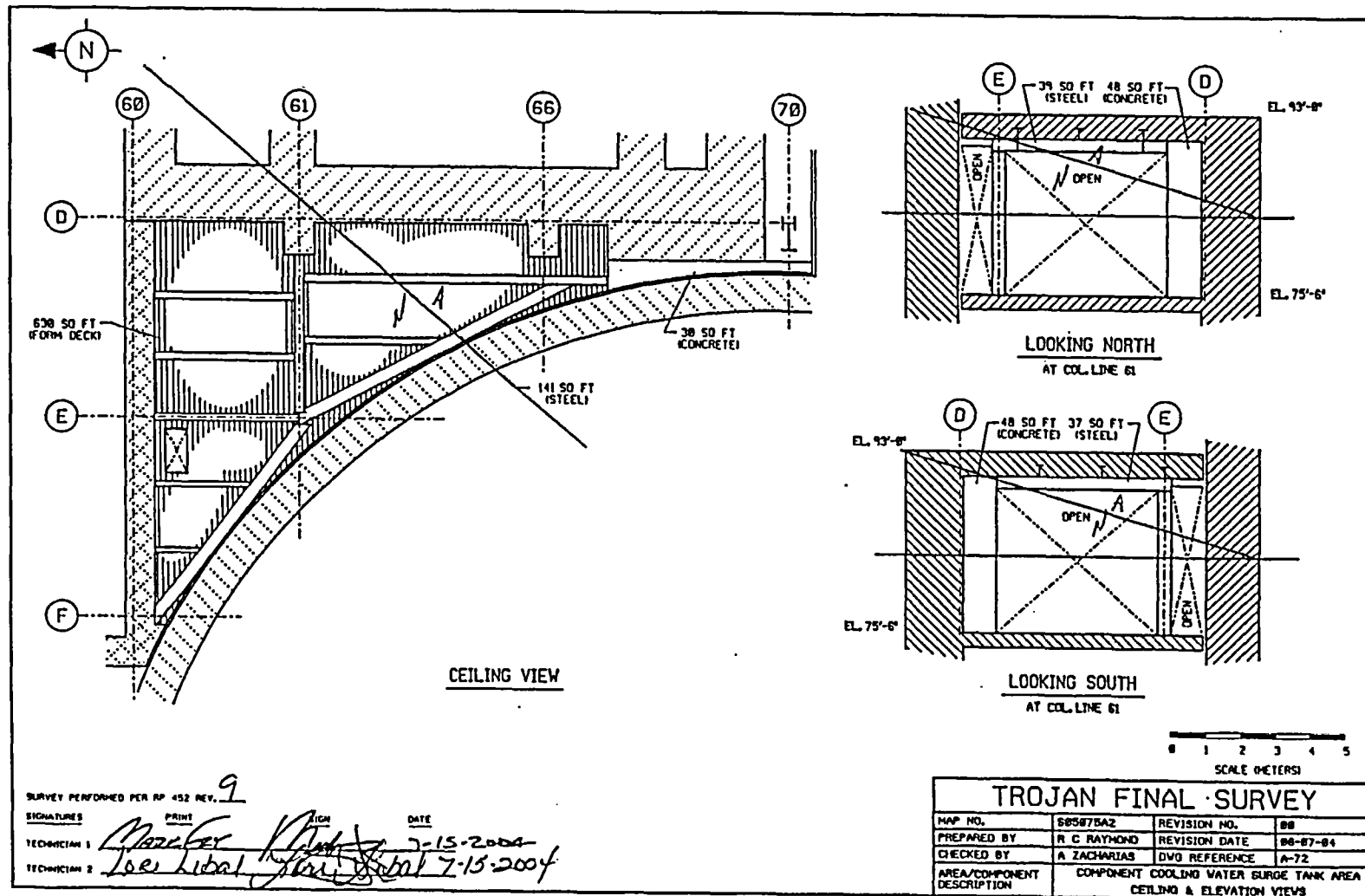
Survey Unit ID Code: S05075A

Survey Unit Name: AB 77' Elevation - CCW Surge Tank Area Floor and Lower Walls

Classification: Class 1

Size (m²): 219

Static Measurement Location Map



SURVEY PERFORMED PER RP 452 REV. 9

| SIGNATURES | PRINT | TITLE | DATE |
|--------------------|-----------------|-------|-----------|
| <i>[Signature]</i> | PROJECT MANAGER | | 7-15-2004 |
| <i>[Signature]</i> | TECHNICIAN | | 7-15-2004 |

FINAL SURVEY RESULTS SUMMARY

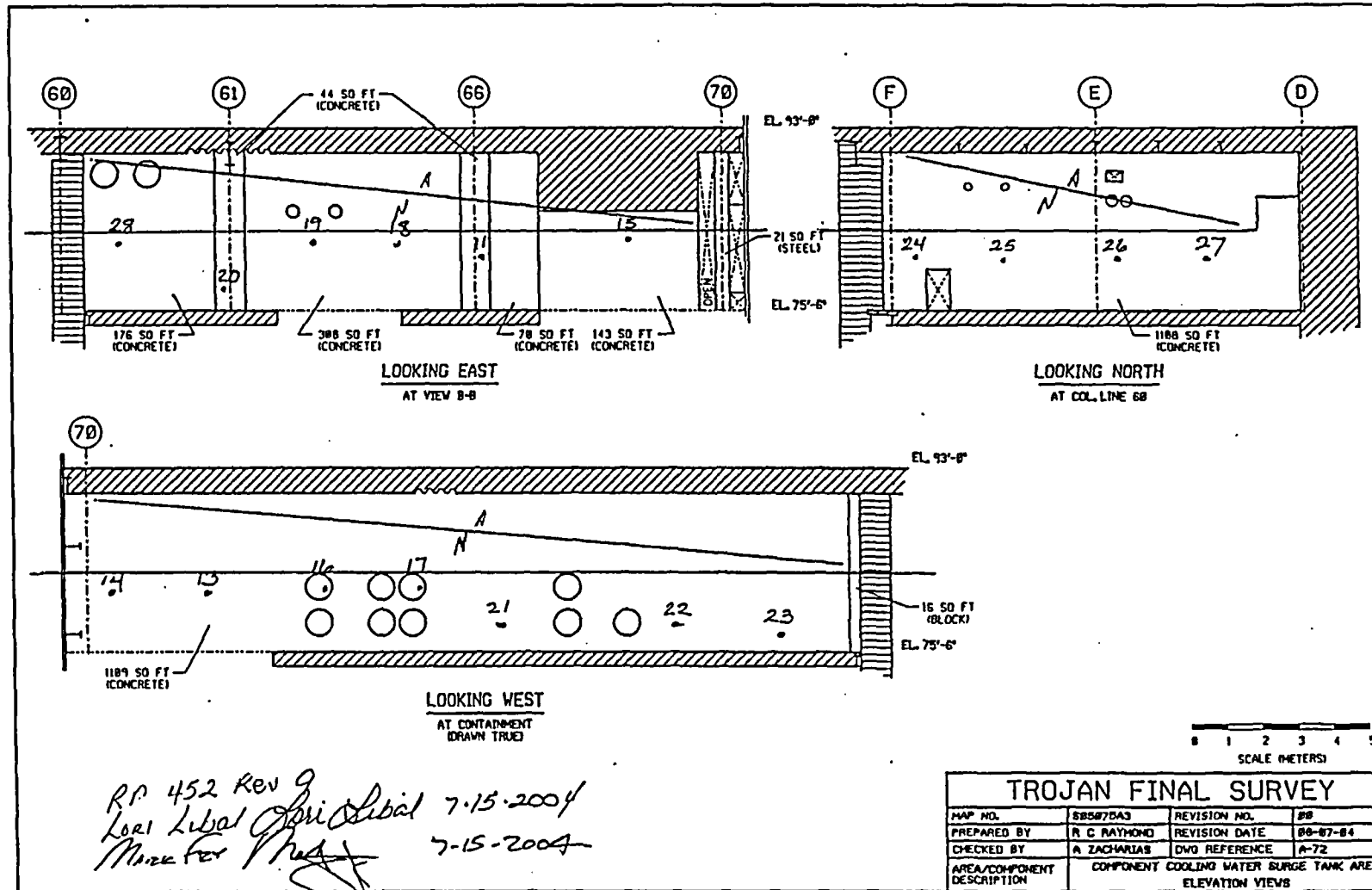
Survey Unit ID Code: S05075A

Survey Unit Name: AB 77' Elevation - CCW Surge Tank Area Floor and Lower Walls

Classification: Class 1

Size (m²): 219

Static Measurement Location Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05077A

Classification: Class 1

Survey Unit Name: AB 77' Elevation - Northwest Corridor Floor

Size (m²): 32

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|-----------------------|------------|-------------------------|------------|-----|-----|
| 1 | 41 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 2.162e+003
 Maximum Value : 2.843e+003
 Range : 6.810e+002
 Median : 2.452e+003
 Std. Deviation : 1.493e+002
 Mean : 2.444e+003
 95% UCL : 2.484e+003

Measurement Values

| Location | Value | Location | Value | Location | Value |
|----------|------------|----------|------------|----------|------------|
| 000001 | 2.245e+003 | 000018 | 2.168e+003 | 000035 | 2.458e+003 |
| 000002 | 2.701e+003 | 000019 | 2.523e+003 | 000036 | 2.422e+003 |
| 000003 | 2.446e+003 | 000020 | 2.470e+003 | 000037 | 2.517e+003 |
| 000004 | 2.239e+003 | 000021 | 2.541e+003 | 000038 | 2.843e+003 |
| 000005 | 2.387e+003 | 000022 | 2.523e+003 | 000039 | 2.713e+003 |
| 000006 | 2.233e+003 | 000023 | 2.565e+003 | 000040 | 2.245e+003 |
| 000007 | 2.452e+003 | 000024 | 2.446e+003 | 000041 | 2.523e+003 |
| 000008 | 2.677e+003 | 000025 | 2.162e+003 | | |
| 000009 | 2.499e+003 | 000026 | 2.570e+003 | | |
| 000010 | 2.511e+003 | 000027 | 2.316e+003 | | |
| 000011 | 2.422e+003 | 000028 | 2.316e+003 | | |
| 000012 | 2.464e+003 | 000029 | 2.470e+003 | | |
| 000013 | 2.399e+003 | 000030 | 2.582e+003 | | |
| 000014 | 2.422e+003 | 000031 | 2.547e+003 | | |
| 000015 | 2.393e+003 | 000032 | 2.304e+003 | | |
| 000016 | 2.351e+003 | 000033 | 2.470e+003 | | |
| 000017 | 2.233e+003 | 000034 | 2.446e+003 | | |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05077A

Classification: Class 1

Survey Unit Name: AB 77' Elevation – Northwest Corridor Floor

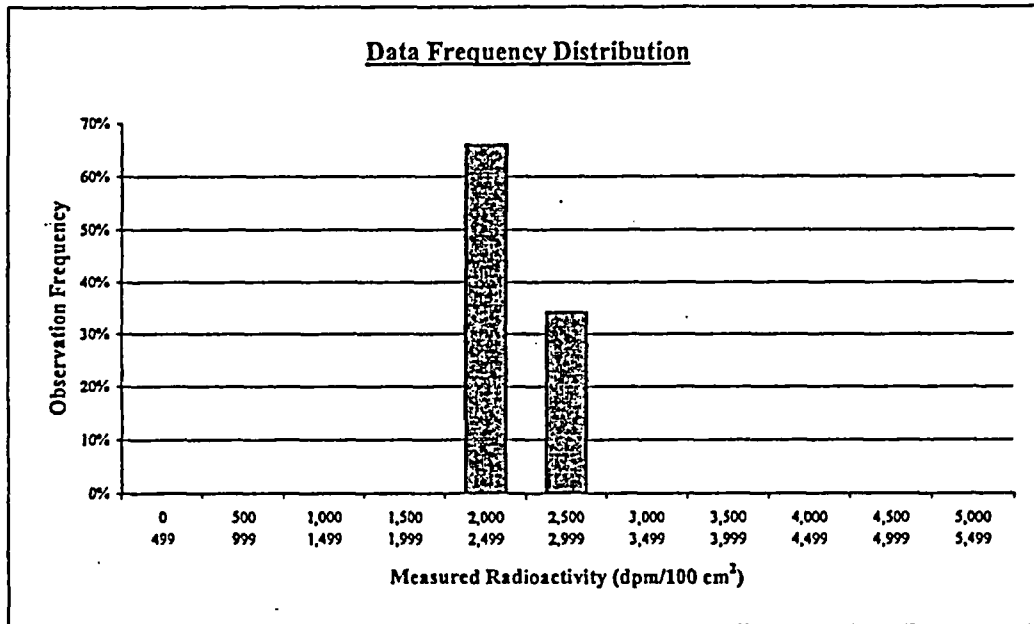
Size (m²): 32

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | |
|-------------------------|------------|------------|-------------|
| | Calculated | Acceptance | |
| Test | Value | Criteria | Acceptable? |
| Range | 681 | 747 | Pass |
| Median | 0.052 | 0.500 | Pass |
| Mean | 2,444 | 6,000 | Pass |
| Std Dev | 149 | 1,500 | Pass |

All data less than DCGL; Sign statistical test not required.

| Statistical Quantities | |
|------------------------|-------|
| Range: | 681 |
| Median: | 2,452 |
| Mean: | 2,444 |
| Std Dev: | 149 |
| Minimum: | 2,162 |
| Maximum: | 2,843 |
| DCGL: | 7,500 |



| Plot Parameters | | Number of Observations | | | | Observation Frequency |
|---------------------|-------|------------------------|----------|---------|--------------|-----------------------|
| | | Interval | High End | Low End | Observations | Frequency |
| # of measurements: | 41 | 1 | 499 | 0 | 0 | 0% |
| # of intervals: | 11 | 2 | 999 | 500 | 0 | 0% |
| Interval increment: | 500 | 3 | 1,499 | 1,000 | 0 | 0% |
| Minimum: | 0 | 4 | 1,999 | 1,500 | 0 | 0% |
| Maximum: | 5,499 | 5 | 2,499 | 2,000 | 27 | 66% |
| | | 6 | 2,999 | 2,500 | 14 | 34% |
| | | 7 | 3,499 | 3,000 | 0 | 0% |
| | | 8 | 3,999 | 3,500 | 0 | 0% |
| | | 9 | 4,499 | 4,000 | 0 | 0% |
| | | 10 | 4,999 | 4,500 | 0 | 0% |
| | | 11 | 5,499 | 5,000 | 0 | 0% |
| | | Total: | | | 41 | 100% |

Comment:
None.

FINAL SURVEY RESULTS SUMMARY

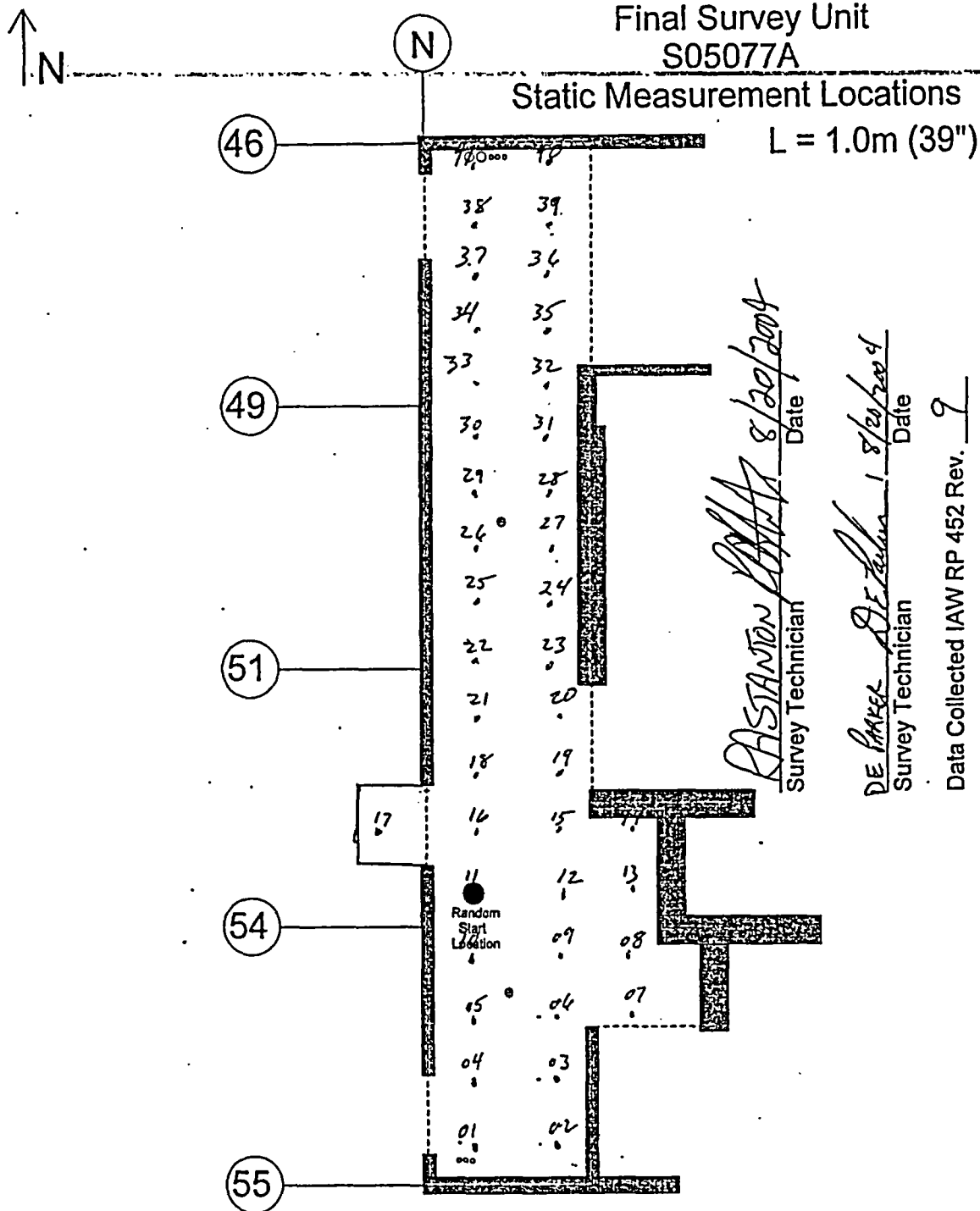
Survey Unit ID Code: S05077A

Classification: Class 1

Survey Unit Name: AB 77' Elevation - Northwest Corridor Floor

Size (m²): 32

Static Measurement Location Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05077B
 Survey Unit Name: AB 77' Elevation -
 North Corridor Floor

Classification: Class 1
 Size (m²): 109

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|--------------------------|---------------|-------------------------|------------|-----|-----|
| 1 | 38 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 9.614e+002
 Maximum Value : 3.568e+003
 Range : 2.607e+003
 Median : 2.165e+003
 Std. Deviation : 3.951e+002
 Mean : 2.118e+003
 95% UCL : 2.226e+003

Measurement Values

| Location | Value | Location | Value | Location | Value |
|----------|------------|----------|------------|----------|------------|
| 000001 | 2.020e+003 | 000018 | 2.381e+003 | 000035 | 2.084e+003 |
| 000002 | 2.026e+003 | 000019 | 2.200e+003 | 000036 | 2.233e+003 |
| 000003 | 2.058e+003 | 000020 | 2.284e+003 | 000037 | 3.568e+003 |
| 000004 | 2.226e+003 | 000021 | 2.162e+003 | 000038 | 2.310e+003 |
| 000005 | 2.039e+003 | 000022 | 2.194e+003 | | |
| 000006 | 2.168e+003 | 000023 | 2.123e+003 | | |
| 000007 | 2.071e+003 | 000024 | 2.213e+003 | | |
| 000008 | 2.271e+003 | 000025 | 2.239e+003 | | |
| 000009 | 2.271e+003 | 000026 | 2.097e+003 | | |
| 000010 | 2.284e+003 | 000027 | 2.278e+003 | | |
| 000011 | 2.007e+003 | 000028 | 2.013e+003 | | |
| 000012 | 2.349e+003 | 000029 | 2.097e+003 | | |
| 000013 | 2.304e+003 | 000030 | 2.304e+003 | | |
| 000014 | 2.065e+003 | 000031 | 1.484e+003 | | |
| 000015 | 2.155e+003 | 000032 | 9.614e+002 | | |
| 000016 | 2.245e+003 | 000033 | 1.058e+003 | | |
| 000017 | 2.071e+003 | 000034 | 1.561e+003 | | |

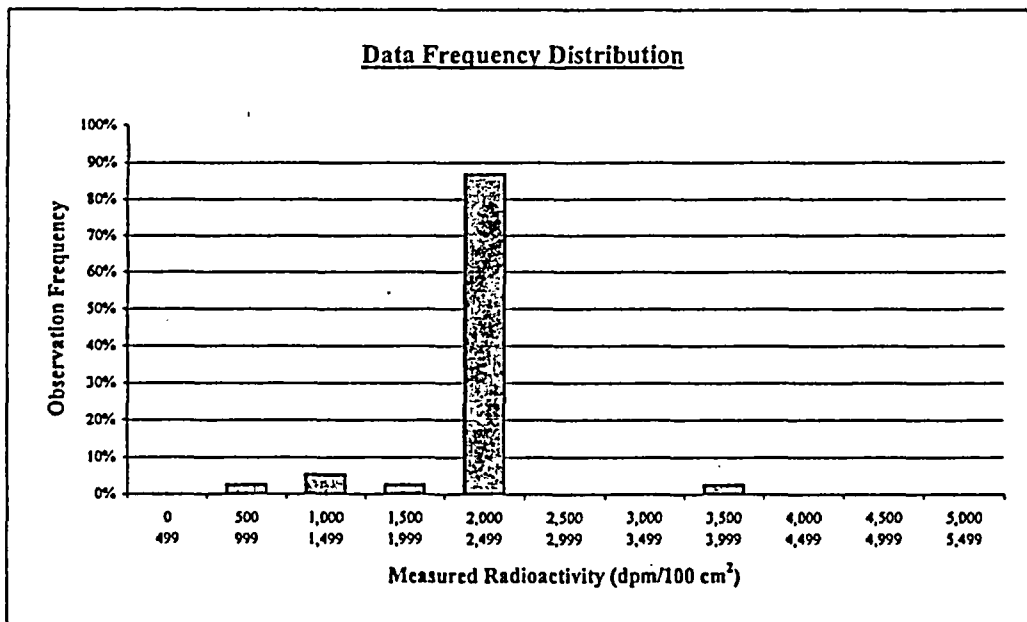
FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05077B
 Survey Unit Name: AB 77' Elevation -
 North Corridor Floor

Classification: Class 1
 Size (m²): 109

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | | Statistical Quantities | |
|--|------------------|---------------------|-------------------|------------------------|-------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? | Range: | 2,607 |
| Range | 2,607 | 1,976 | See comment below | Median: | 2,165 |
| Median | 0.120 | 0.500 | Pass | Mean: | 2,118 |
| Mean | 2,118 | 6,000 | Pass | Std Dev: | 395 |
| Std Dev | 395 | 1,500 | Pass | Minimum: | 961 |
| All data less than DCGL; Sign statistical test not required. | | | | Maximum: | 3,568 |
| | | | | DCGL: | 7,500 |



| Plot Parameters | Interval | High End | Low End | Number of Observations | Observation Frequency |
|-------------------------|----------|----------|---------|------------------------|-----------------------|
| # of measurements: 38 | 1 | 499 | 0 | 0 | 0% |
| # of intervals: 11 | 2 | 999 | 500 | 1 | 3% |
| Interval increment: 500 | 3 | 1,499 | 1,000 | 2 | 5% |
| Minimum: 0 | 4 | 1,999 | 1,500 | 1 | 3% |
| Maximum: 5,499 | 5 | 2,499 | 2,000 | 33 | 87% |
| | 6 | 2,999 | 2,500 | 0 | 0% |
| | 7 | 3,499 | 3,000 | 0 | 0% |
| | 8 | 3,999 | 3,500 | 1 | 3% |
| | 9 | 4,499 | 4,000 | 0 | 0% |
| | 10 | 4,999 | 4,500 | 0 | 0% |
| | 11 | 5,499 | 5,000 | 0 | 0% |
| | Total: | | | 38 | 100% |

Comment:
 Range failure is a test artifact due to a single measurement value exceeding 3,500 dpm, with the other 37 values less than 2,500 dpm, and a relatively small standard deviation for the data set, resulting in a test value exceeding the criterion of 5 times the standard deviation. All measurement values are valid and accepted.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05077B
Survey Unit Name: AB 77' Elevation –
 North Corridor Floor

Classification: Class 1
Size (m²): 109

Judgmental and Miscellaneous Data

| | |
|--|-----------------------------------|
| Measurement Type: Surface Scanning Beta | Scan Coverage (%): 100 |
| Measurement Units: dpm/100cm ² | Investigation Level: 7,500 |
| Minimum Value: 1,659 | Maximum Value: 20,850 |

| | |
|--|-----------------------------------|
| Measurement Type: Removable Beta | Number of Measurements: 38 |
| Measurement Units: dpm/100cm ² | Investigation Level: 750 |
| Minimum Value: 43 | Maximum Value: 80 |

Discussion of Anomalous Measurement Data

Investigation Summary

Reason for Investigation: Two scan measurements exceeded the investigation level.

Elevated Measurement Comparison (EMC):

| | |
|---|------------------------|
| DCGL (Investigation Level): | 7,500 |
| Measurement Units: | dpm/100cm ² |
| Maximum Value: | 20,850 |
| Size of Area Exceeding DCGL (m²): | 0.03 |
| Size of Survey Unit (m²): | 109 |
| Survey Unit Area >DCGL (%): | 0.02 |
| EMC Value: | 36,750 |

Action Taken: Applied EMC data processing to elevated scan locations 088 & 096.

Basis for Action Taken: Two very small, localized areas of elevated radioactivity identified during scan surveys are less than 1 m².

FINAL SURVEY RESULTS SUMMARY

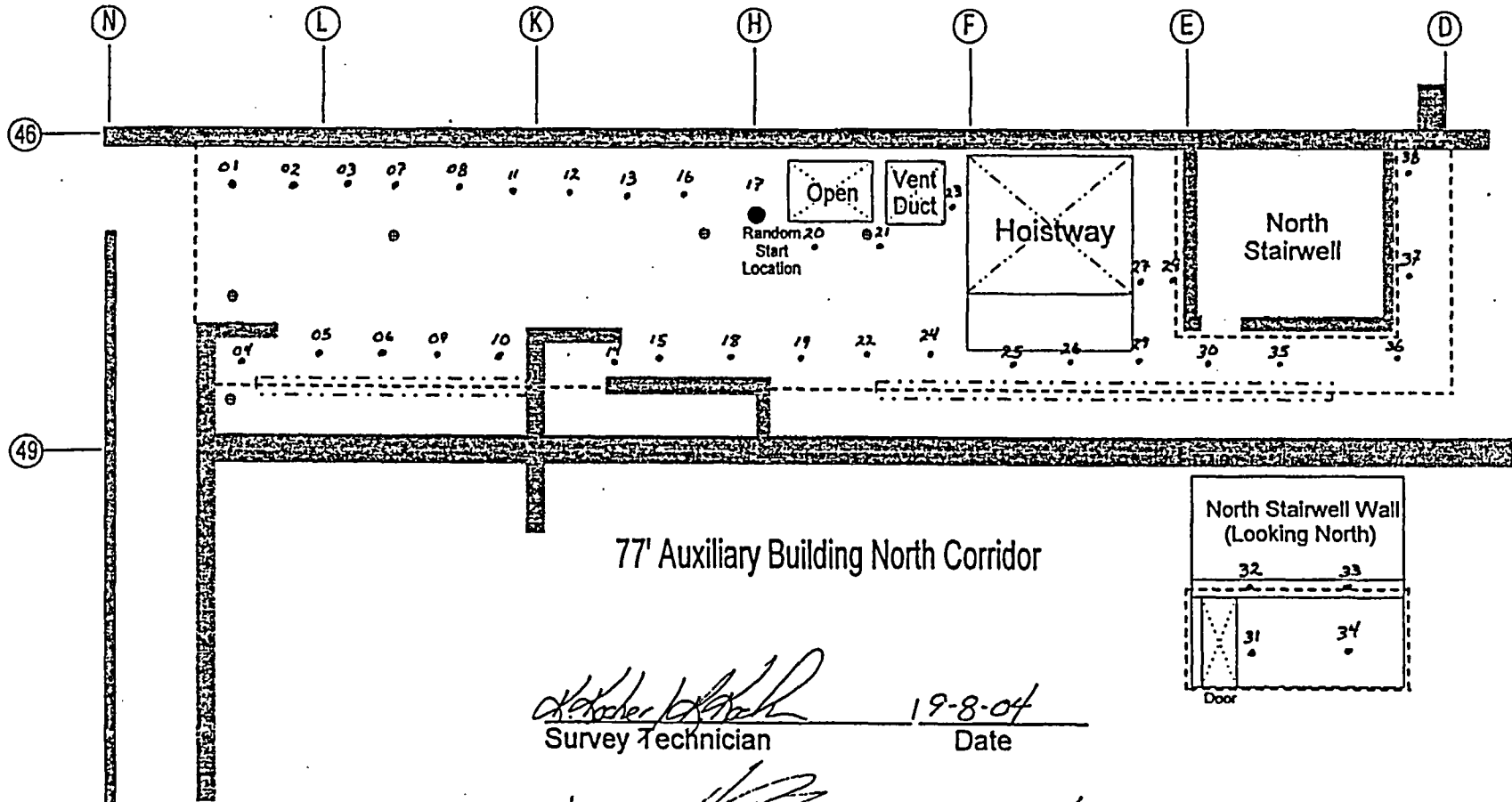
Survey Unit ID Code: S05077B

Survey Unit Name: AB 77' Elevation - North Corridor Floor

Classification: Class 1

Size (m²): 109

Static Measurement Location Map



77' Auxiliary Building North Corridor

[Signature]
 Survey Technician 19-8-04
 Date

[Signature]
 Survey Technician 19-8-04
 Date

|| Original Structural Wall Removed

Data Collected IAW RP 452 Rev. 9

077Bsm1.cad

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05077C
 Survey Unit Name: AB 77' Elevation -
 Corridor Walls and Ceiling

Classification: Class 2
 Size (m²): 499

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|-----------------------|------------|-------------------------|------------|-----|-----|
| 1 | 30 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 6.049e+002
 Maximum Value : 1.449e+003
 Range : 8.441e+002
 Median : 1.039e+003
 Std. Deviation : 2.338e+002
 Mean : 1.045e+003
 95% UCL : 1.118e+003

Measurement Values

| Location | Value | Location | Value |
|----------|------------|----------|------------|
| 000001 | 1.275e+003 | 000018 | 1.233e+003 |
| 000002 | 7.782e+002 | 000019 | 1.341e+003 |
| 000003 | 9.323e+002 | 000020 | 1.237e+003 |
| 000004 | 7.667e+002 | 000021 | 8.514e+002 |
| 000005 | 6.049e+002 | 000022 | 9.092e+002 |
| 000006 | 7.975e+002 | 000023 | 9.555e+002 |
| 000007 | 1.210e+003 | 000024 | 1.449e+003 |
| 000008 | 9.593e+002 | 000025 | 1.075e+003 |
| 000009 | 1.302e+003 | 000026 | 9.670e+002 |
| 000010 | 1.002e+003 | 000027 | 9.015e+002 |
| 000011 | 6.126e+002 | 000028 | 7.436e+002 |
| 000012 | 1.395e+003 | 000029 | 1.102e+003 |
| 000013 | 1.190e+003 | 000030 | 1.271e+003 |
| 000014 | 1.283e+003 | | |
| 000015 | 1.221e+003 | | |
| 000016 | 1.117e+003 | | |
| 000017 | 8.707e+002 | | |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05077C
 Survey Unit Name: AB 77' Elevation -
 Corridor Walls and Ceiling

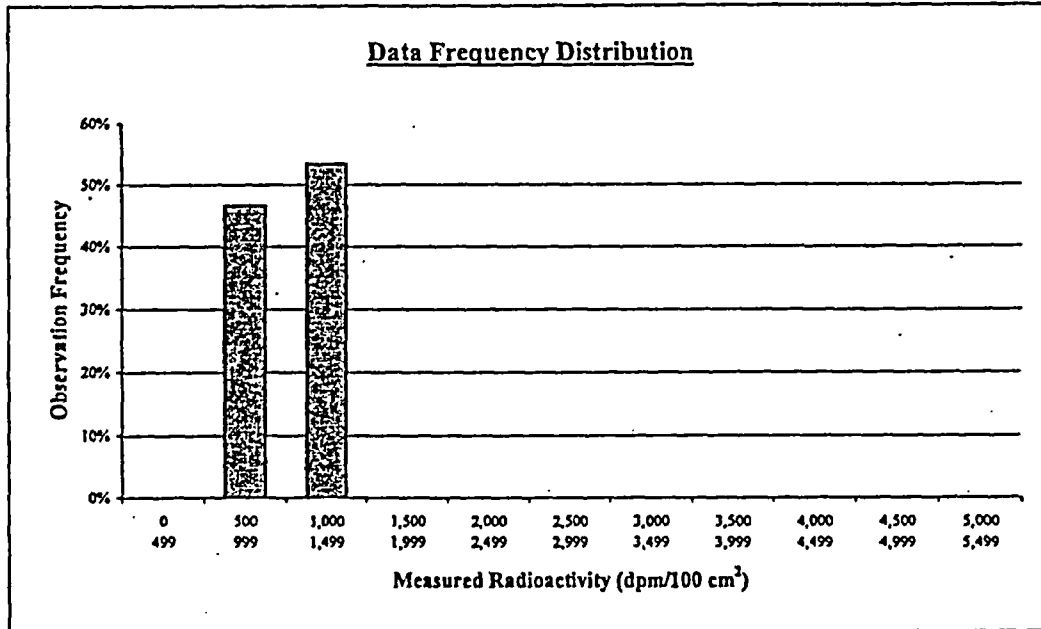
Classification: Class 2
 Size (m²): 499

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | |
|-------------------------|------------------|---------------------|-------------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? |
| Range | 844 | 1,169 | Pass |
| Median | 0.029 | 0.500 | Pass |
| Mean | 1,045 | 6,000 | Pass |
| Std Dev | 234 | 1,500 | Pass |

All data less than DCGL; Sign statistical test not required.

| Statistical Quantities | |
|------------------------|-------|
| Range: | 844 |
| Median: | 1,039 |
| Mean: | 1,045 |
| Std Dev: | 234 |
| Minimum: | 605 |
| Maximum: | 1,449 |
| DCGL: | 7,500 |



| Plot Parameters | |
|---------------------|-------|
| # of measurements: | 30 |
| # of intervals: | 11 |
| Interval increment: | 500 |
| Minimum: | 0 |
| Maximum: | 5,499 |

Comment:
 None.

| Interval | High End | Low End | Number of Observations | Observation Frequency |
|----------|----------|---------|------------------------|-----------------------|
| 1 | 499 | 0 | 0 | 0% |
| 2 | 999 | 500 | 14 | 47% |
| 3 | 1,499 | 1,000 | 16 | 53% |
| 4 | 1,999 | 1,500 | 0 | 0% |
| 5 | 2,499 | 2,000 | 0 | 0% |
| 6 | 2,999 | 2,500 | 0 | 0% |
| 7 | 3,499 | 3,000 | 0 | 0% |
| 8 | 3,999 | 3,500 | 0 | 0% |
| 9 | 4,499 | 4,000 | 0 | 0% |
| 10 | 4,999 | 4,500 | 0 | 0% |
| 11 | 5,499 | 5,000 | 0 | 0% |
| Total: | | | 30 | 100% |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05077C
Survey Unit Name: AB 77' Elevation –
Corridor Walls and Ceiling

Classification: Class 2
Size (m²): 499

Judgmental and Miscellaneous Data

Measurement Type: Surface Scanning Beta
Measurement Units: dpm/100cm²
Minimum Value: 834

Scan Coverage (%): 20
Investigation Level: 7,500
Maximum Value: 2,946

Measurement Type: Removable Beta
Measurement Units: dpm/100cm²
Minimum Value: 43

Number of Measurements: 30
Investigation Level: 750
Maximum Value: 85

Discussion of Anomalous Measurement Data

Investigation Summary

No investigation required for this survey unit. No anomalous measurement data.

FINAL SURVEY RESULTS SUMMARY

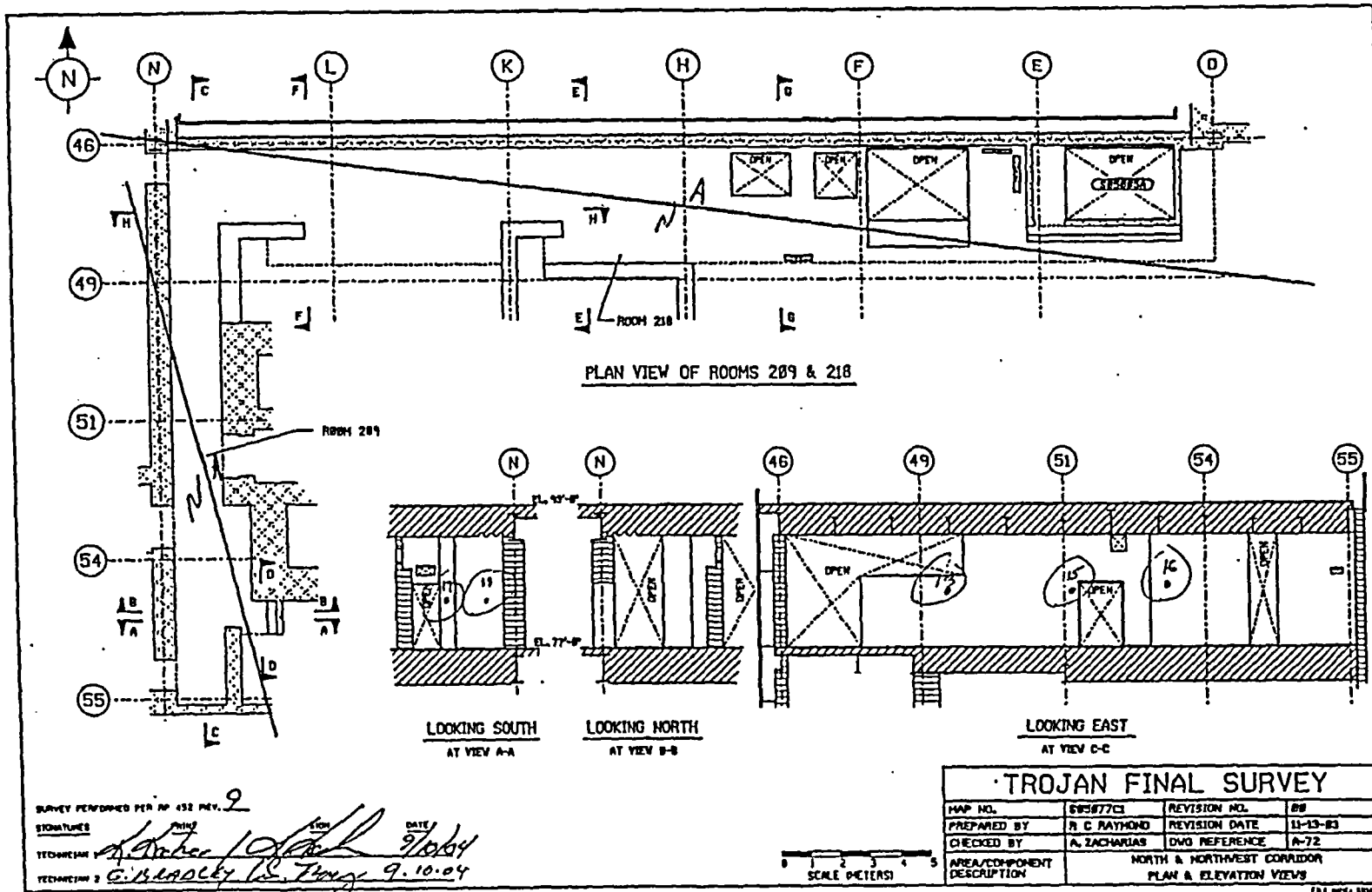
Survey Unit ID Code: S05077C

Survey Unit Name: AB 77' Elevation - Corridor Walls and Ceiling

Classification: Class 2

Size (m²): 499

Static Measurement Location Map



FINAL SURVEY RESULTS SUMMARY

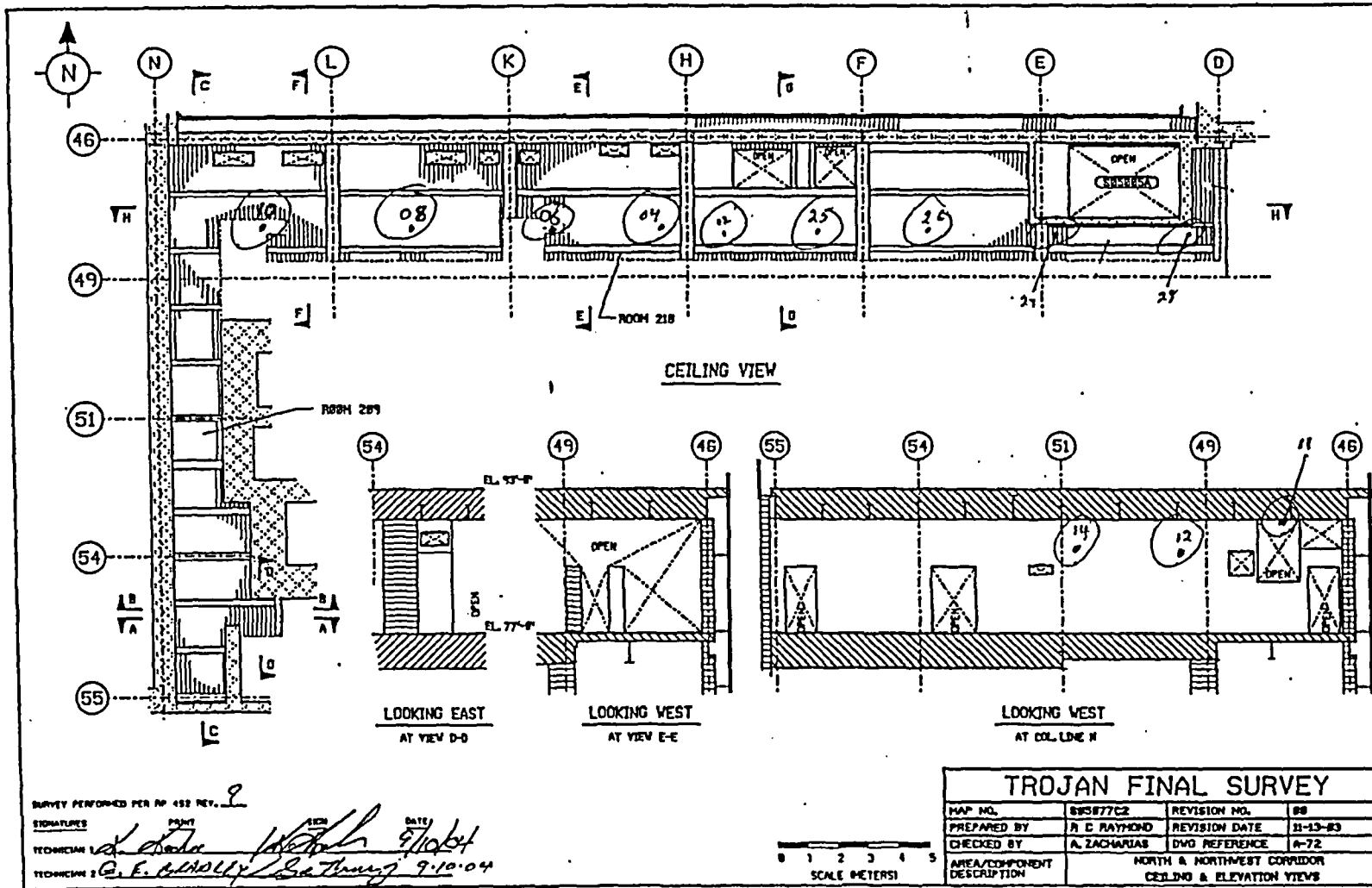
Survey Unit ID Code: S05077C

Survey Unit Name: AB 77' Elevation - Corridor Walls and Ceiling

Classification: Class 2

Size (m²): 499

Static Measurement Location Map



FINAL SURVEY RESULTS SUMMARY

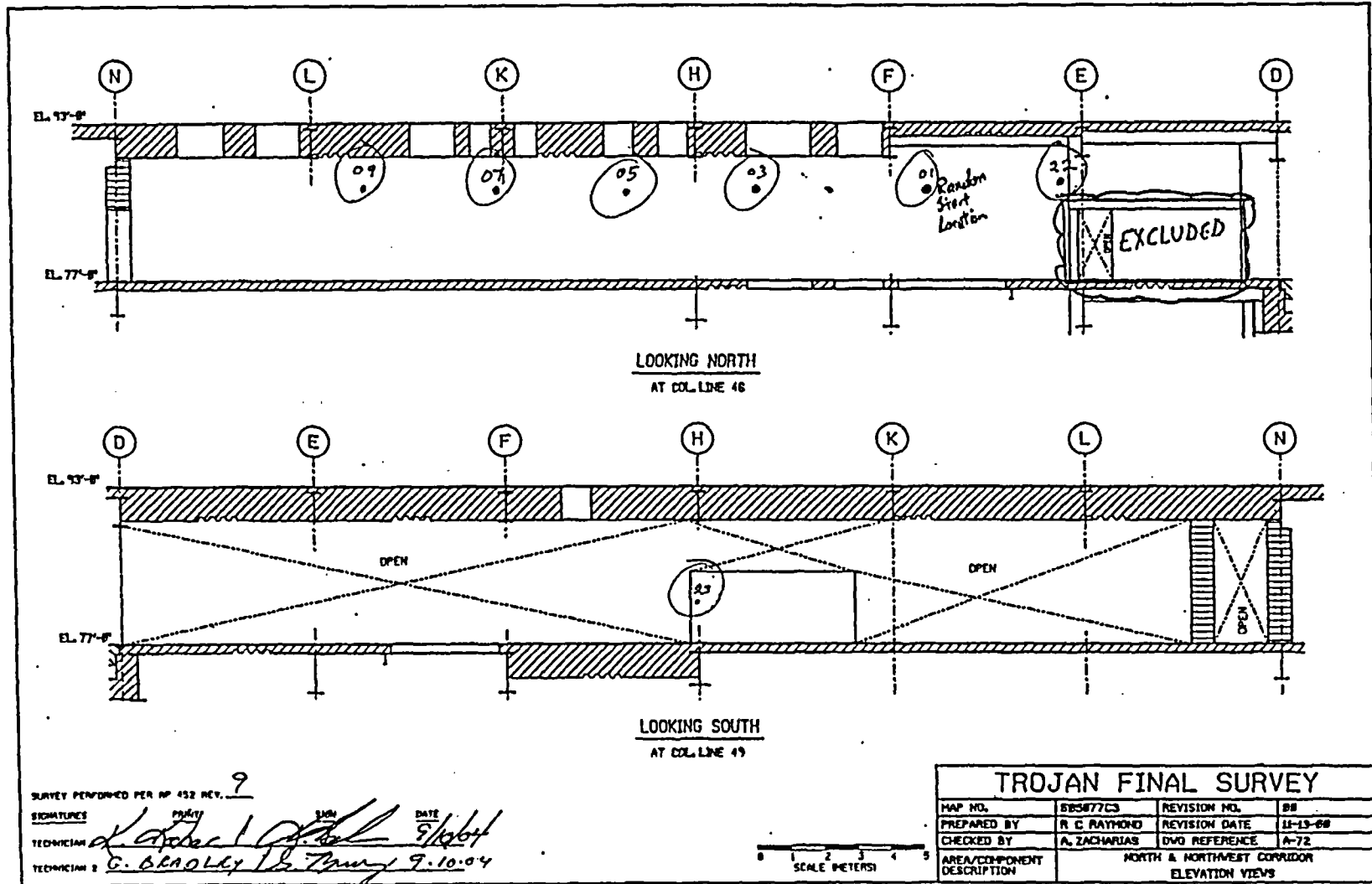
Survey Unit ID Code: S05077C

Survey Unit Name: AB 77' Elevation - Corridor Walls and Ceiling

Classification: Class 2

Size (m²): 499

Static Measurement Location Map



SURVEY PERFORMED PER RP 452 REV. 9

SIGNATURES: *[Handwritten Signatures]* DATE: 9/10/04

TECHNICIAN 1: *[Handwritten Name]*

TECHNICIAN 2: *[Handwritten Name]*

FINAL SURVEY RESULTS SUMMARY

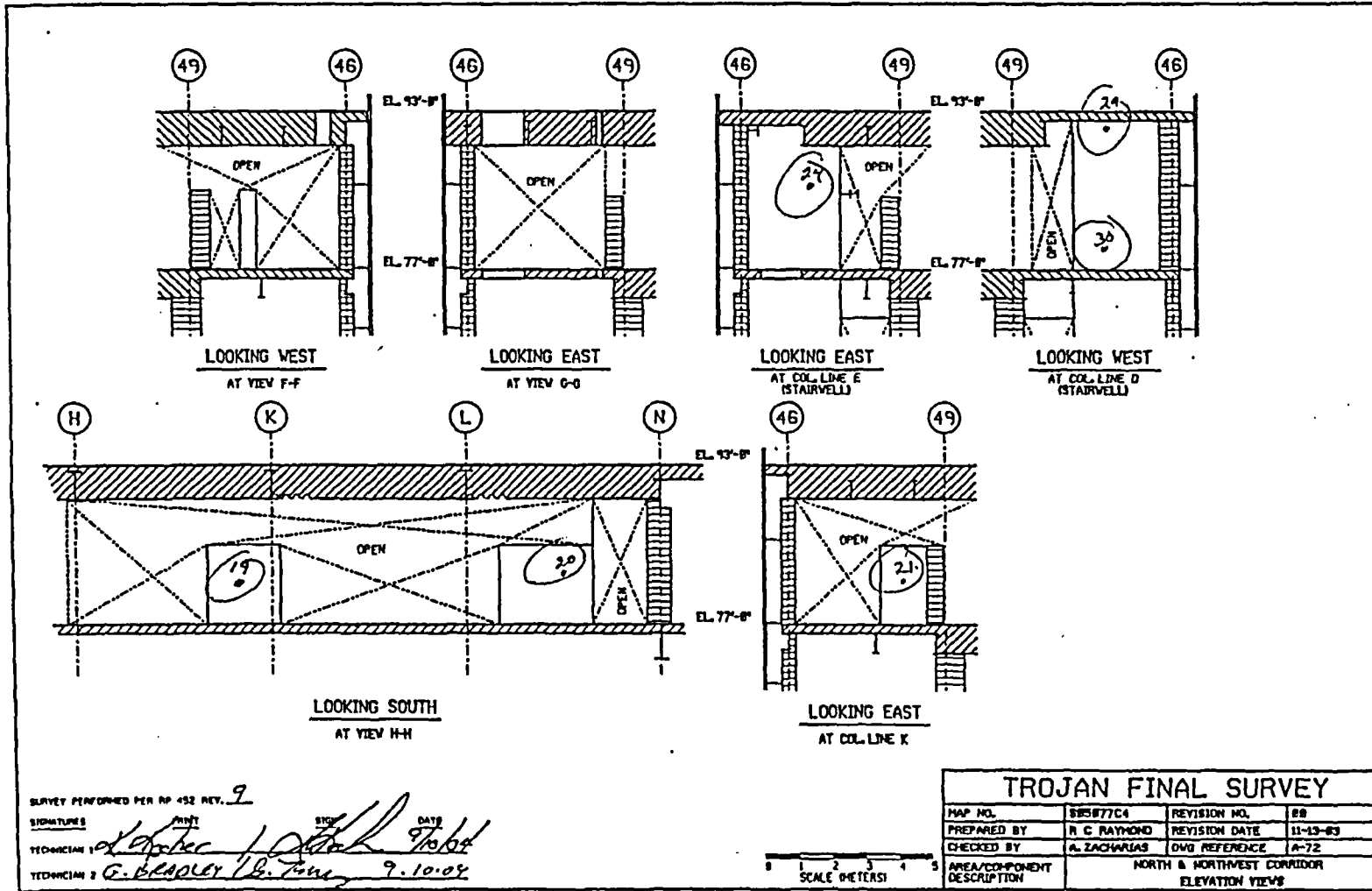
Survey Unit ID Code: S05077C

Survey Unit Name: AB 77' Elevation - Corridor Walls and Ceiling

Classification: Class 2

Size (m²): 499

Static Measurement Location Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05077D
 Survey Unit Name: AB 77' Elevation -
 West Demineralizer Valve Gallery

Classification: Class 1
 Size (m²): 157

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|--------------------------|---------------|-------------------------|------------|-----|-----|
| 1 | 34 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 1.245e+003
 Maximum Value : 3.923e+003
 Range : 2.678e+003
 Median : 1.587e+003
 Std. Deviation : 5.496e+002
 Mean : 1.801e+003
 95% UCL : 1.961e+003

Measurement Values

| Location | Value | Location | Value |
|----------|------------|----------|------------|
| 000001 | 1.245e+003 | 000018 | 1.420e+003 |
| 000002 | 1.491e+003 | 000019 | 1.310e+003 |
| 000003 | 1.555e+003 | 000020 | 1.452e+003 |
| 000004 | 1.994e+003 | 000021 | 1.516e+003 |
| 000005 | 2.826e+003 | 000022 | 1.516e+003 |
| 000006 | 3.923e+003 | 000023 | 1.271e+003 |
| 000007 | 1.910e+003 | 000024 | 1.252e+003 |
| 000008 | 1.820e+003 | 000025 | 1.465e+003 |
| 000009 | 2.149e+003 | 000026 | 2.213e+003 |
| 000010 | 1.613e+003 | 000027 | 2.297e+003 |
| 000011 | 1.555e+003 | 000028 | 2.465e+003 |
| 000012 | 1.626e+003 | 000029 | 1.471e+003 |
| 000013 | 2.400e+003 | 000030 | 1.587e+003 |
| 000014 | 2.020e+003 | 000031 | 1.632e+003 |
| 000015 | 2.020e+003 | 000032 | 1.465e+003 |
| 000016 | 1.400e+003 | 000033 | 1.413e+003 |
| 000017 | 2.368e+003 | 000034 | 1.587e+003 |

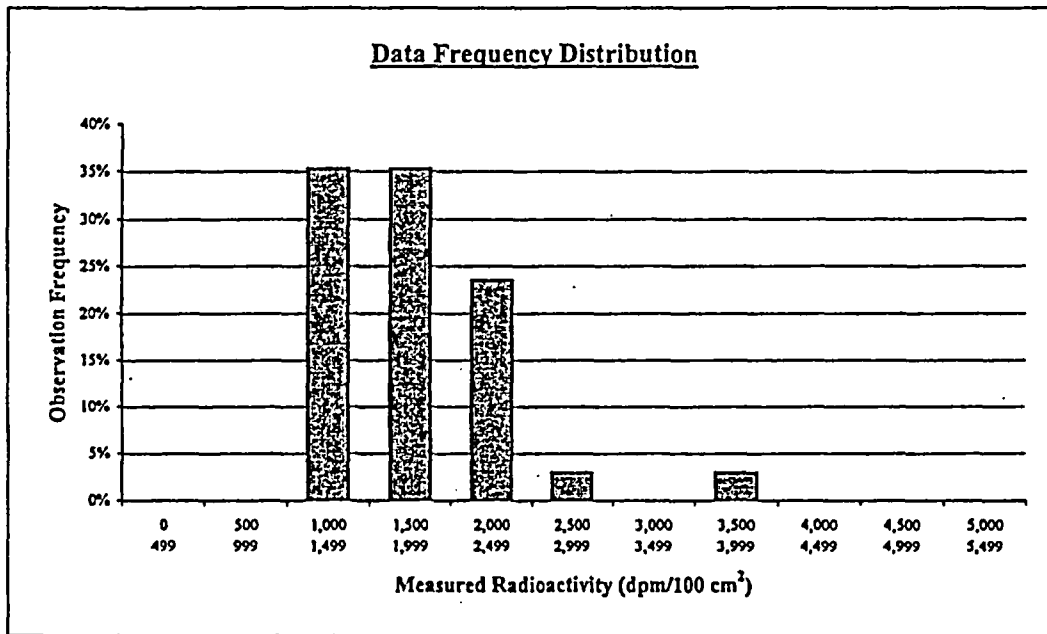
FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05077D
 Survey Unit Name: AB 77' Elevation -
 West Demineralizer Valve Gallery

Classification: Class 1
 Size (m²): 157

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | | Statistical Quantities | |
|--|------------------|---------------------|-------------|------------------------|-------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? | Range: | 2,678 |
| Range | 2,678 | 2,748 | Pass | Median: | 1,587 |
| Median | 0.390 | 0.500 | Pass | Mean: | 1,801 |
| Mean | 1,801 | 6,000 | Pass | Std Dev: | 550 |
| Std Dev | 550 | 1,500 | Pass | Minimum: | 1,245 |
| All data less than DCGL; Sign statistical test not required. | | | | Maximum: | 3,923 |
| | | | | DCGL: | 7,500 |



| Plot Parameters | | Interval | High End | Low End | Number of Observations | Observation Frequency |
|---------------------|-------|----------|----------|---------|------------------------|-----------------------|
| # of measurements: | 34 | 1 | 499 | 0 | 0 | 0% |
| # of intervals: | 11 | 2 | 999 | 500 | 0 | 0% |
| Interval increment: | 500 | 3 | 1,499 | 1,000 | 12 | 35% |
| Minimum: | 0 | 4 | 1,999 | 1,500 | 12 | 35% |
| Maximum: | 5,499 | 5 | 2,499 | 2,000 | 8 | 24% |
| | | 6 | 2,999 | 2,500 | 1 | 3% |
| | | 7 | 3,499 | 3,000 | 0 | 0% |
| | | 8 | 3,999 | 3,500 | 1 | 3% |
| | | 9 | 4,499 | 4,000 | 0 | 0% |
| | | 10 | 4,999 | 4,500 | 0 | 0% |
| | | 11 | 5,499 | 5,000 | 0 | 0% |
| Total: | | | | | 34 | 100% |

Comment:
None.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05077D
Survey Unit Name: AB 77' Elevation –
 West Demineralizer Valve Gallery

Classification: Class 1
Size (m²): 157

Judgmental and Miscellaneous Data

| | |
|--|-----------------------------------|
| Measurement Type: Surface Scanning Beta | Scan Coverage (%): 100 |
| Measurement Units: dpm/100cm ² | Investigation Level: 7,500 |
| Minimum Value: 849 | Maximum Value: 6,374 |

| | |
|--|-----------------------------------|
| Measurement Type: Removable Beta | Number of Measurements: 34 |
| Measurement Units: dpm/100cm ² | Investigation Level: 750 |
| Minimum Value: 43 | Maximum Value: 88 |

Discussion of Anomalous Measurement Data

Investigation Summary

Reason for Investigation: One scan measurement exceeded the investigation level.

Elevated Measurement Comparison (EMC):

| | |
|---|------------------------|
| DCGL (Investigation Level): | 7,500 |
| Measurement Units: | dpm/100cm ² |
| Maximum Value: | 8,513 |
| Size of Area Exceeding DCGL (m²): | N/A |
| Size of Survey Unit (m²): | N/A |
| Survey Unit Area >DCGL (%): | N/A |
| EMC Value: | N/A |

Action Taken: Corrected measurement value for scan location per guidance in memo FS-018-03; used similar method for elevated scan measurements obtained with a 43-116-1 gas flow proportional detector. Replaced original scan result in SDMS with this result, which corrected to less than the investigation level.

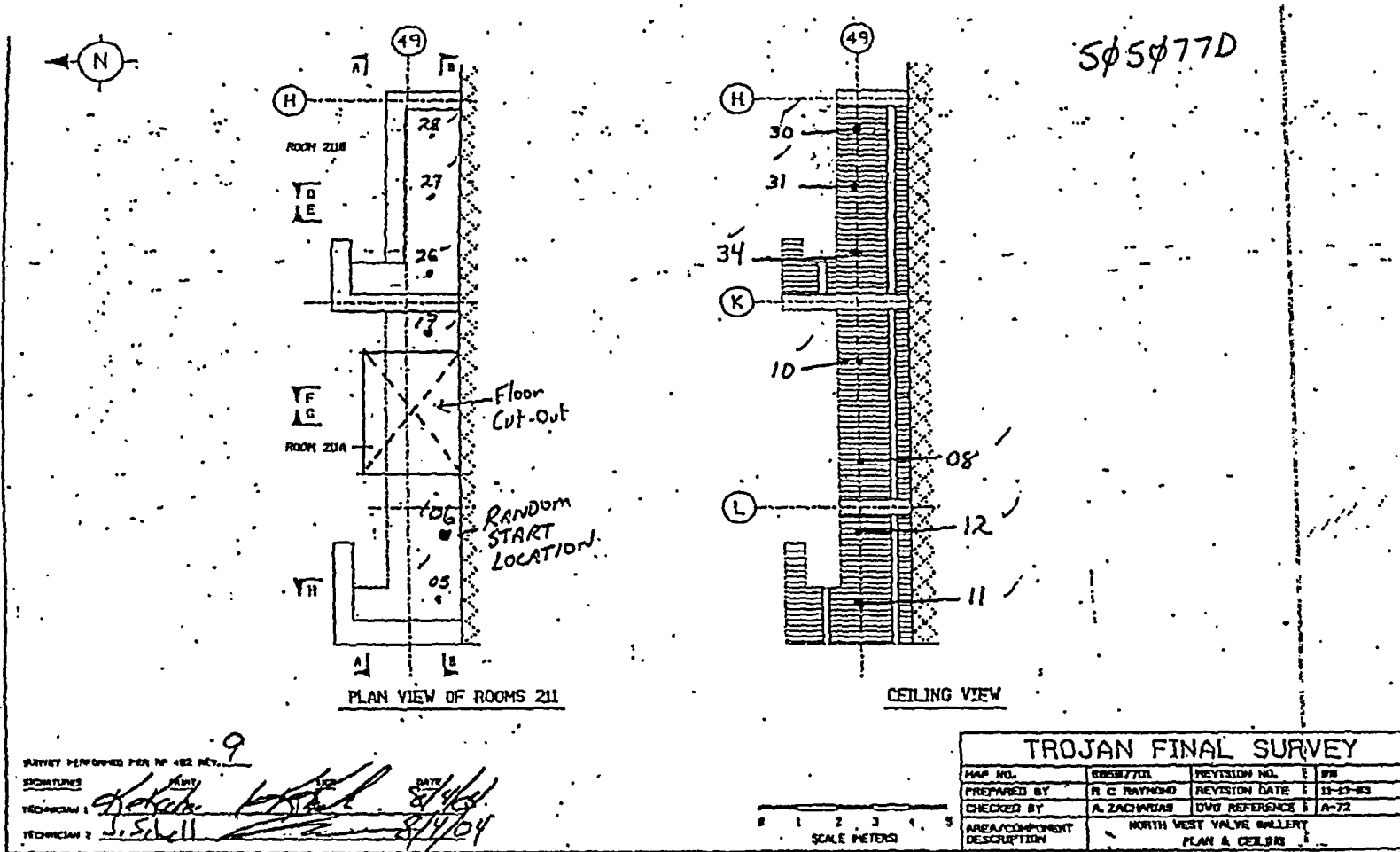
Basis for Action Taken: Technical basis memorandum FS-018-03 provides guidance for correcting SDMS determined scan results for locations that exceed the investigation level by subtracting instrument background from the field results.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05077D
 Survey Unit Name: AB 77' Elevation - West Demineralizer Valve Gallery

Classification: Class 1
 Size (m²): 157

Static Measurement Location Map



FINAL SURVEY RESULTS SUMMARY

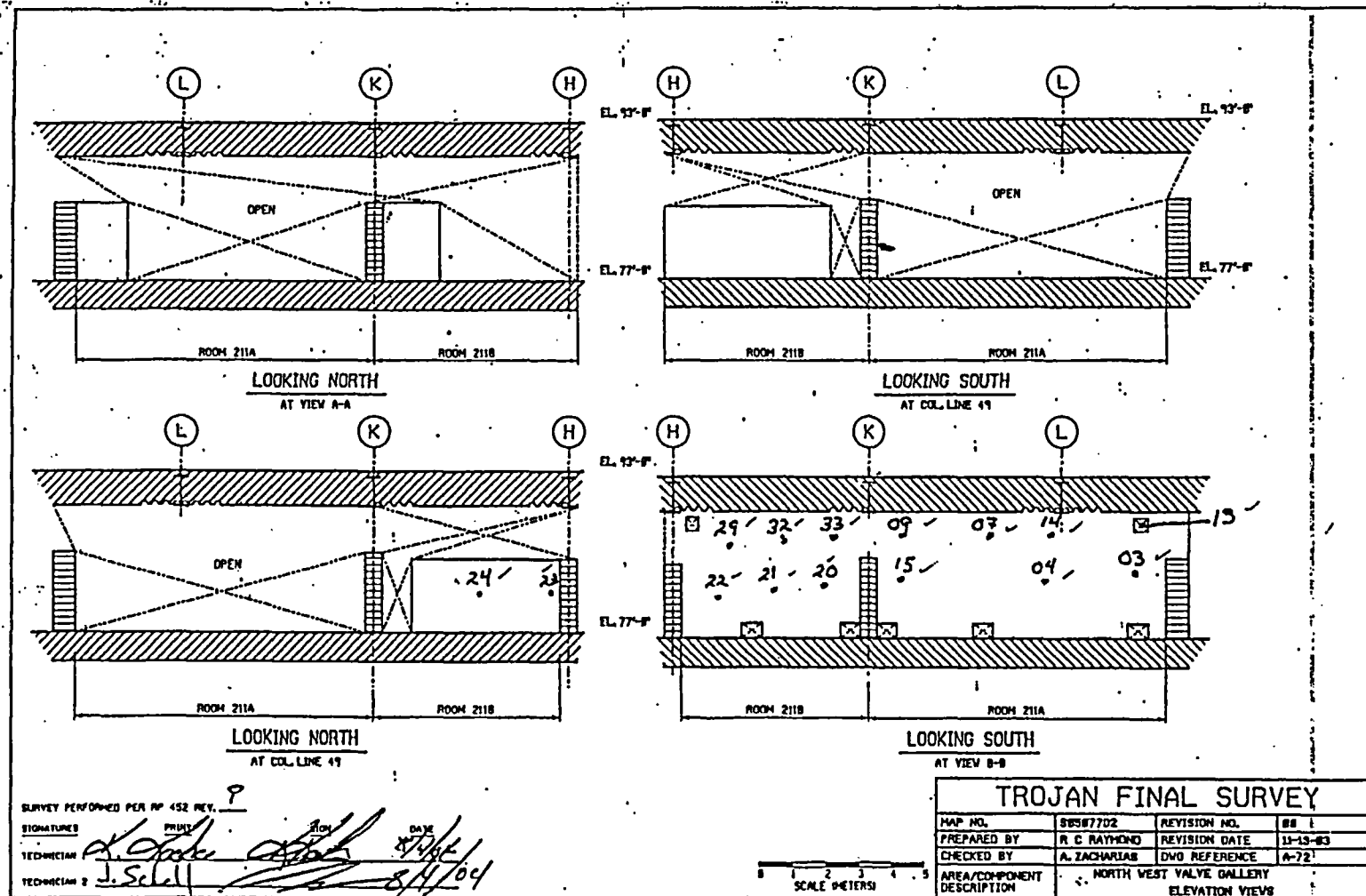
Survey Unit ID Code: S05077D

Survey Unit Name: AB 77' Elevation - West Demineralizer Valve Gallery

Classification: Class 1

Size (m²): 157

Static Measurement Location Map



FINAL SURVEY RESULTS SUMMARY

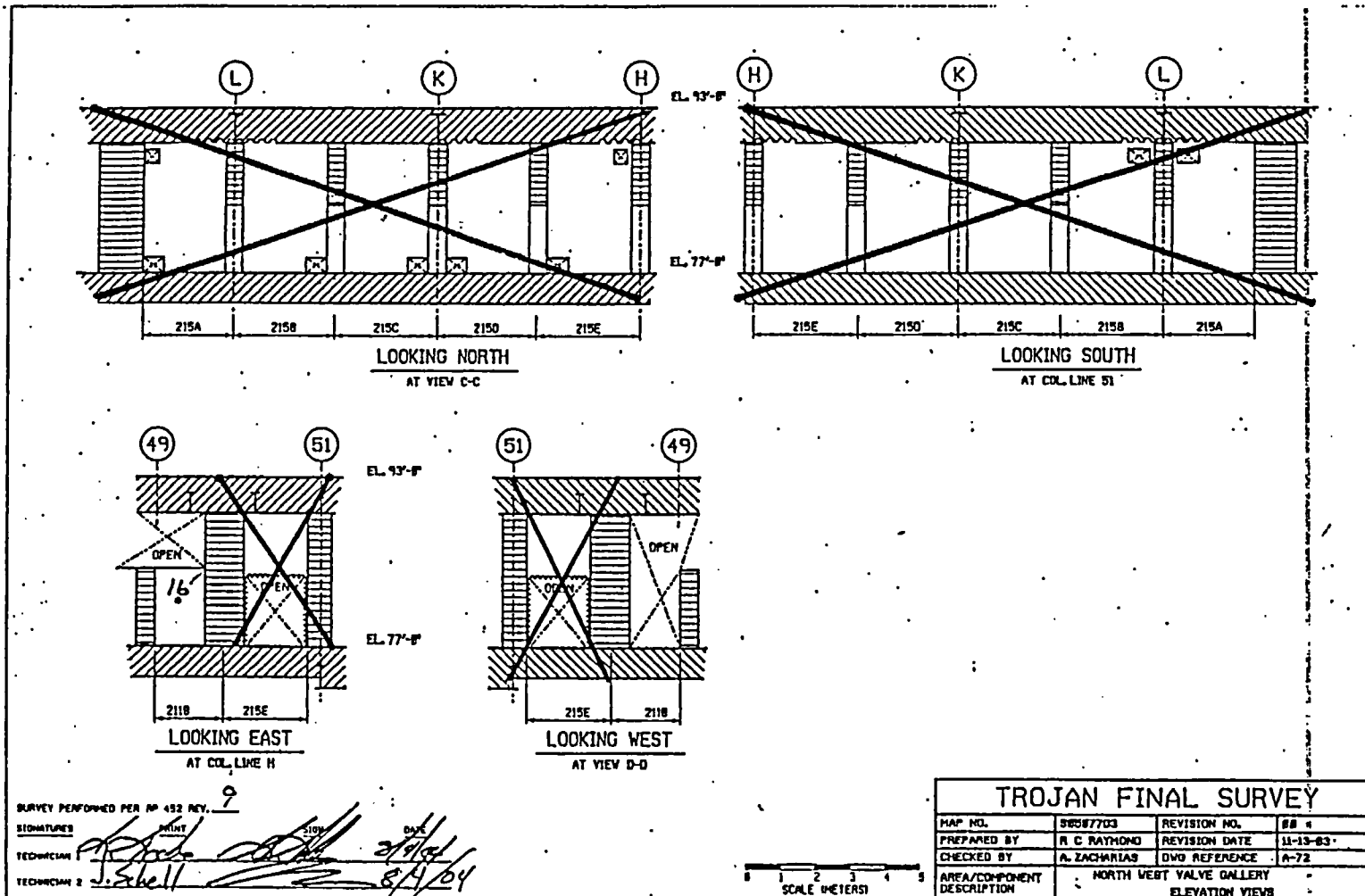
Survey Unit ID Code: S05077D

Classification: Class 1

Survey Unit Name: AB 77' Elevation - West Demineralizer Valve Gallery

Size (m²): 157

Static Measurement Location Map



FINAL SURVEY RESULTS SUMMARY

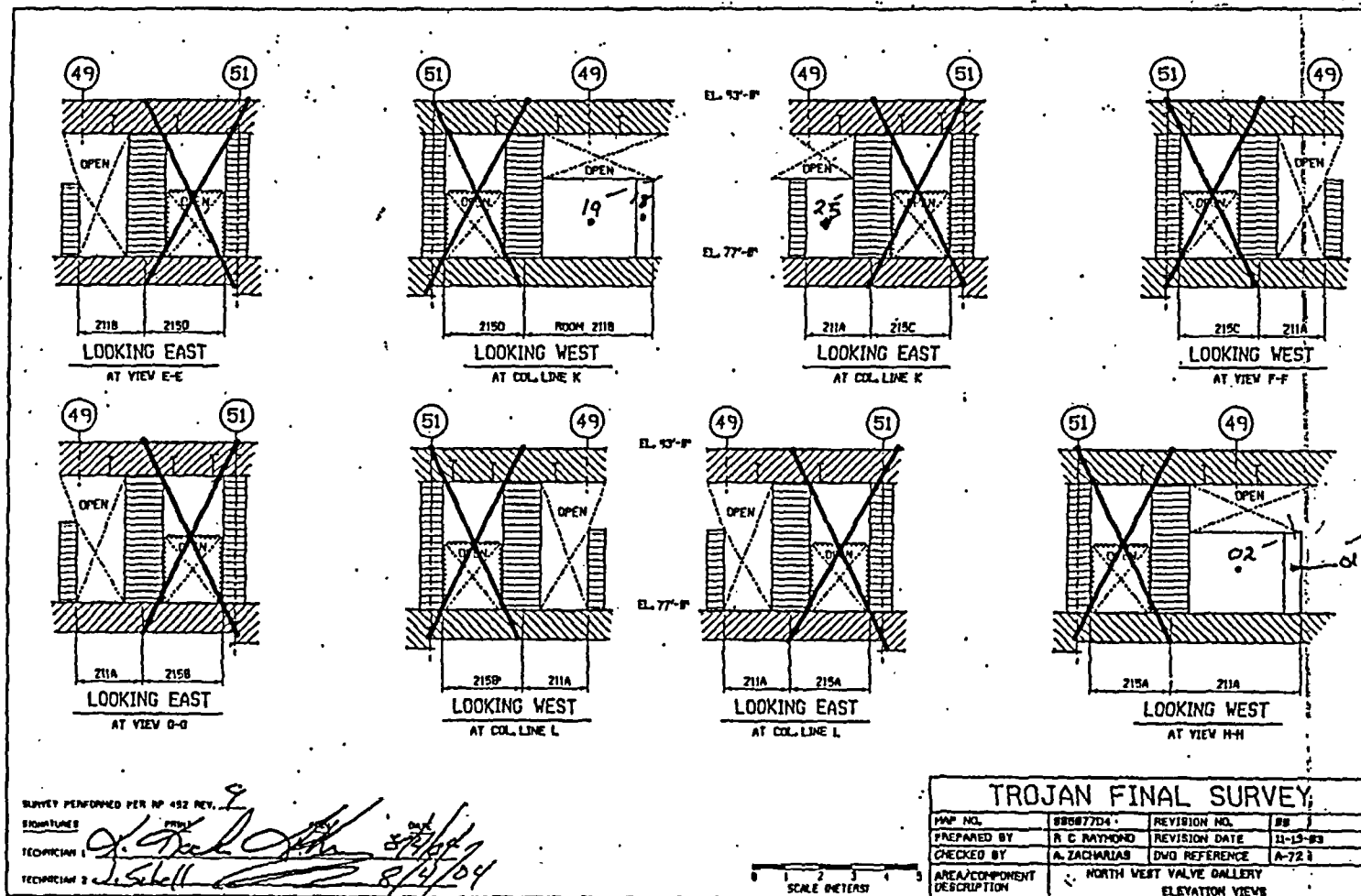
Survey Unit ID Code: S05077D

Survey Unit Name: AB 77' Elevation - West Demineralizer Valve Gallery

Classification: Class 1

Size (m²): 157

Static Measurement Location Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05077E
 Survey Unit Name: AB 77' Elevation -
 West Demineralizer Vaults

Classification: Class 1
 Size (m²): 195

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|-----------------------|------------|-------------------------|------------|-----|-----|
| 1 | 30 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 1.168e+003
 Maximum Value : 2.329e+003
 Range : 1.161e+003
 Median : 1.555e+003
 Std. Deviation : 3.376e+002
 Mean : 1.648e+003
 95% UCL : 1.753e+003

Measurement Values

| Location | Value | Location | Value |
|----------|------------|----------|------------|
| 000001 | 1.329e+003 | 000018 | 1.349e+003 |
| 000002 | 1.168e+003 | 000019 | 1.762e+003 |
| 000003 | 1.297e+003 | 000020 | 1.316e+003 |
| 000004 | 1.503e+003 | 000021 | 1.716e+003 |
| 000005 | 1.439e+003 | 000022 | 1.891e+003 |
| 000006 | 1.394e+003 | 000023 | 1.220e+003 |
| 000007 | 1.574e+003 | 000024 | 2.123e+003 |
| 000008 | 1.523e+003 | 000025 | 2.329e+003 |
| 000009 | 1.910e+003 | 000026 | 2.013e+003 |
| 000010 | 1.542e+003 | 000027 | 2.265e+003 |
| 000011 | 1.361e+003 | 000028 | 2.123e+003 |
| 000012 | 1.478e+003 | 000029 | 2.116e+003 |
| 000013 | 1.600e+003 | 000030 | 1.374e+003 |
| 000014 | 1.290e+003 | | |
| 000015 | 1.568e+003 | | |
| 000016 | 1.826e+003 | | |
| 000017 | 2.045e+003 | | |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05077E
 Survey Unit Name: AB 77' Elevation -
 West Demineralizer Vaults

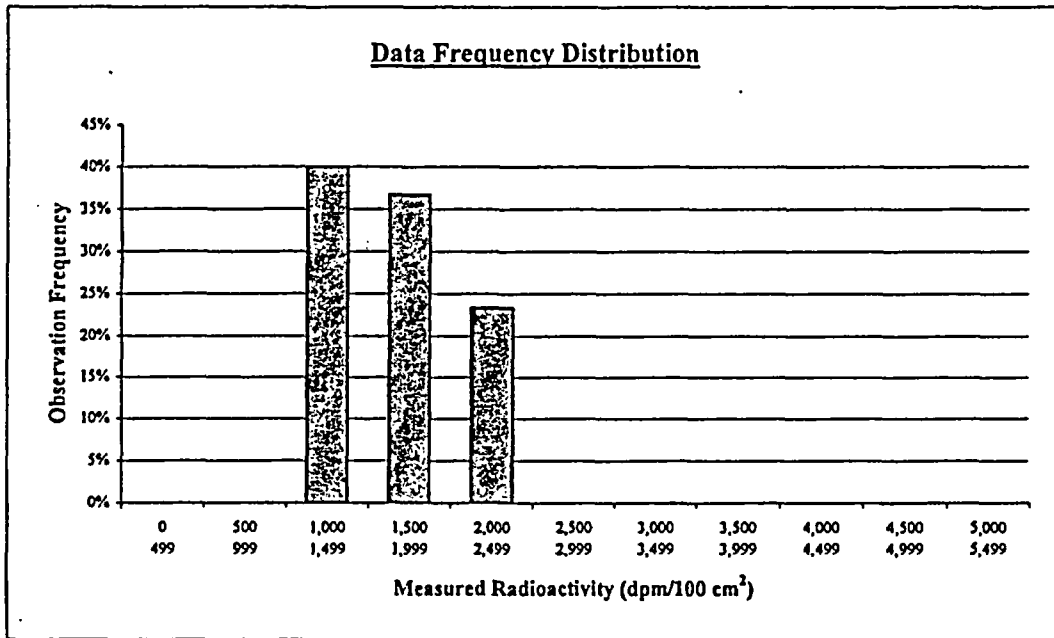
Classification: Class 1
 Size (m²): 195

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | |
|-------------------------|------------------|---------------------|-------------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? |
| Range | 1,161 | 1,688 | Pass |
| Median | 0.276 | 0.500 | Pass |
| Mean | 1,648 | 6,000 | Pass |
| Std Dev | 338 | 1,500 | Pass |

| Statistical Quantities | |
|------------------------|-------|
| Range: | 1,161 |
| Median: | 1,555 |
| Mean: | 1,648 |
| Std Dev: | 338 |
| Minimum: | 1,168 |
| Maximum: | 2,329 |
| DCGL: | 7,500 |

All data less than DCGL; Sign statistical test not required.



| Plot Parameters | |
|---------------------|-------|
| # of measurements: | 30 |
| # of intervals: | 11 |
| Interval increment: | 500 |
| Minimum: | 0 |
| Maximum: | 5,499 |

Comment:
None.

| Interval | High End | Low End | Number of Observations | Observation Frequency |
|----------|----------|---------|------------------------|-----------------------|
| 1 | 499 | 0 | 0 | 0% |
| 2 | 999 | 500 | 0 | 0% |
| 3 | 1,499 | 1,000 | 12 | 40% |
| 4 | 1,999 | 1,500 | 11 | 37% |
| 5 | 2,499 | 2,000 | 7 | 23% |
| 6 | 2,999 | 2,500 | 0 | 0% |
| 7 | 3,499 | 3,000 | 0 | 0% |
| 8 | 3,999 | 3,500 | 0 | 0% |
| 9 | 4,499 | 4,000 | 0 | 0% |
| 10 | 4,999 | 4,500 | 0 | 0% |
| 11 | 5,499 | 5,000 | 0 | 0% |
| Total: | | | 30 | 100% |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05077E
Survey Unit Name: AB 77' Elevation –
 West Demineralizer Vaults

Classification: Class 1
Size (m²): 195

Judgmental and Miscellaneous Data

| | |
|--|-----------------------------------|
| Measurement Type: Surface Scanning Beta | Scan Coverage (%): 100 |
| Measurement Units: dpm/100cm ² | Investigation Level: 7,500 |
| Minimum Value: 928 | Maximum Value: 6,970 |

| | |
|--|-----------------------------------|
| Measurement Type: Removable Beta | Number of Measurements: 30 |
| Measurement Units: dpm/100cm ² | Investigation Level: 750 |
| Minimum Value: 39 | Maximum Value: 79 |

Discussion of Anomalous Measurement Data

Investigation Summary

Reason for Investigation: Nine scan measurements exceeded the investigation level.

Elevated Measurement Comparison (EMC):

| | |
|---|------------------------|
| DCGL (Investigation Level): | 7,500 |
| Measurement Units: | dpm/100cm ² |
| Maximum Value: | 9,663 |
| Size of Area Exceeding DCGL (m²): | N/A |
| Size of Survey Unit (m²): | N/A |
| Survey Unit Area >DCGL (%): | N/A |
| EMC Value: | N/A |

Action Taken: Corrected measurement values for scan location per guidance in memo FS-018-03. Replaced original scan result in SDMS with these results, all of which corrected to less than the investigation level.

Basis for Action Taken: Technical basis memorandum FS-018-03 provides guidance for correcting SDMS determined scan results for locations that exceed the investigation level by subtracting instrument background from the field results.

FINAL SURVEY RESULTS SUMMARY

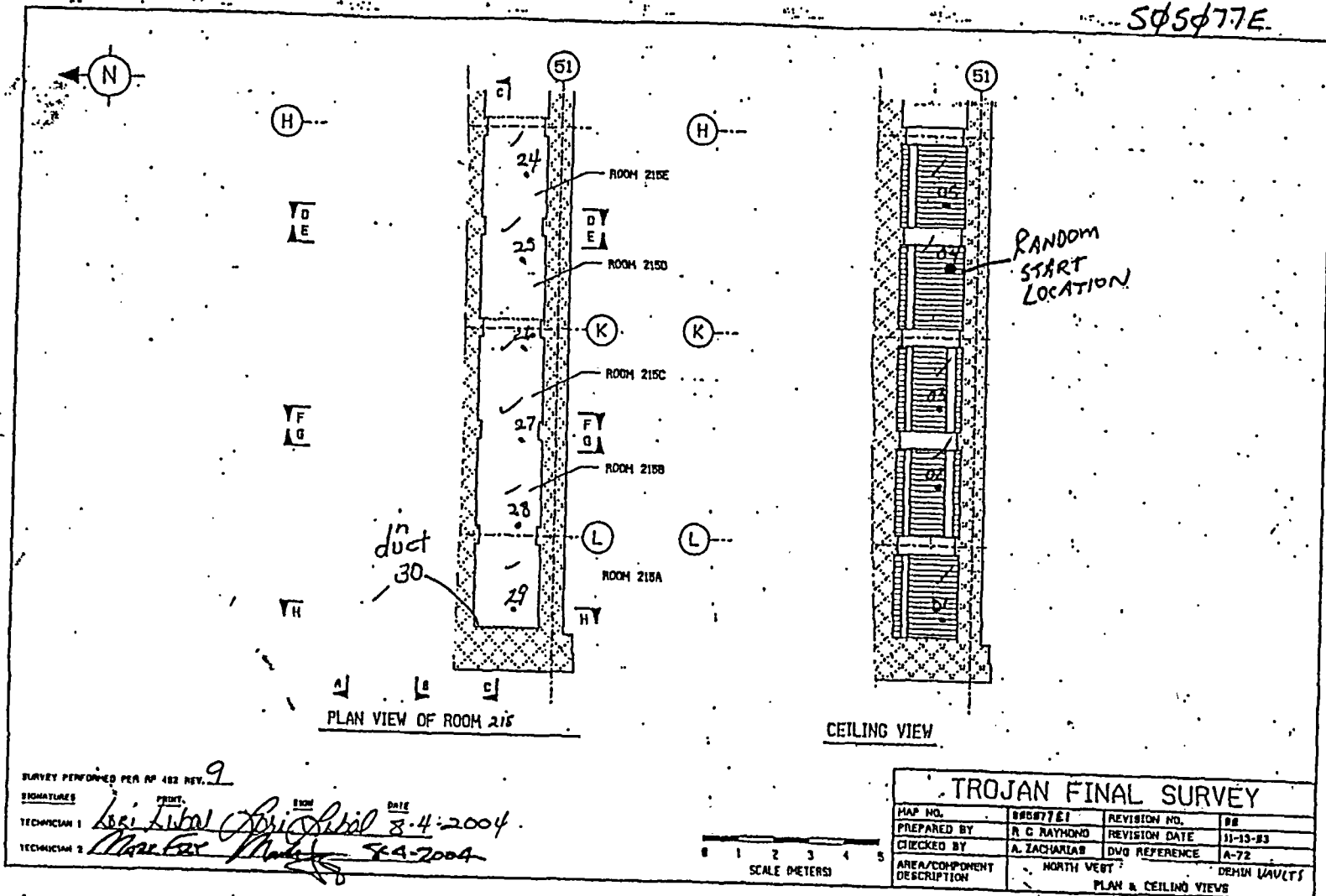
Survey Unit ID Code: S05077E

Survey Unit Name: AB 77' Elevation - West Demineralizer Vaults

Classification: Class 1

Size (m²): 195

Static Measurement Location Map

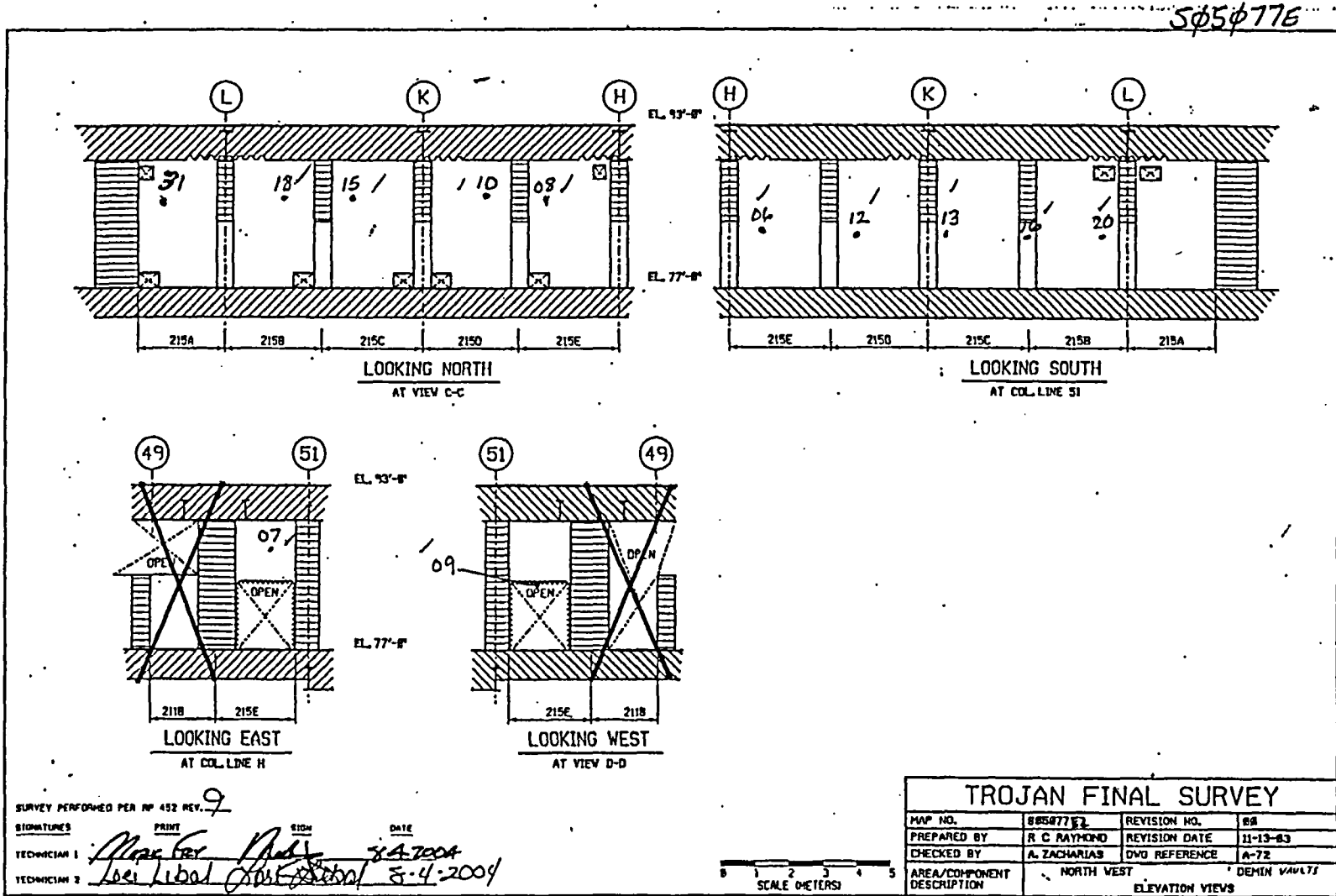


FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05077E
 Survey Unit Name: AB 77' Elevation - West Demineralizer Vaults

Classification: Class 1
 Size (m²): 195

Static Measurement Location Map



FINAL SURVEY RESULTS SUMMARY

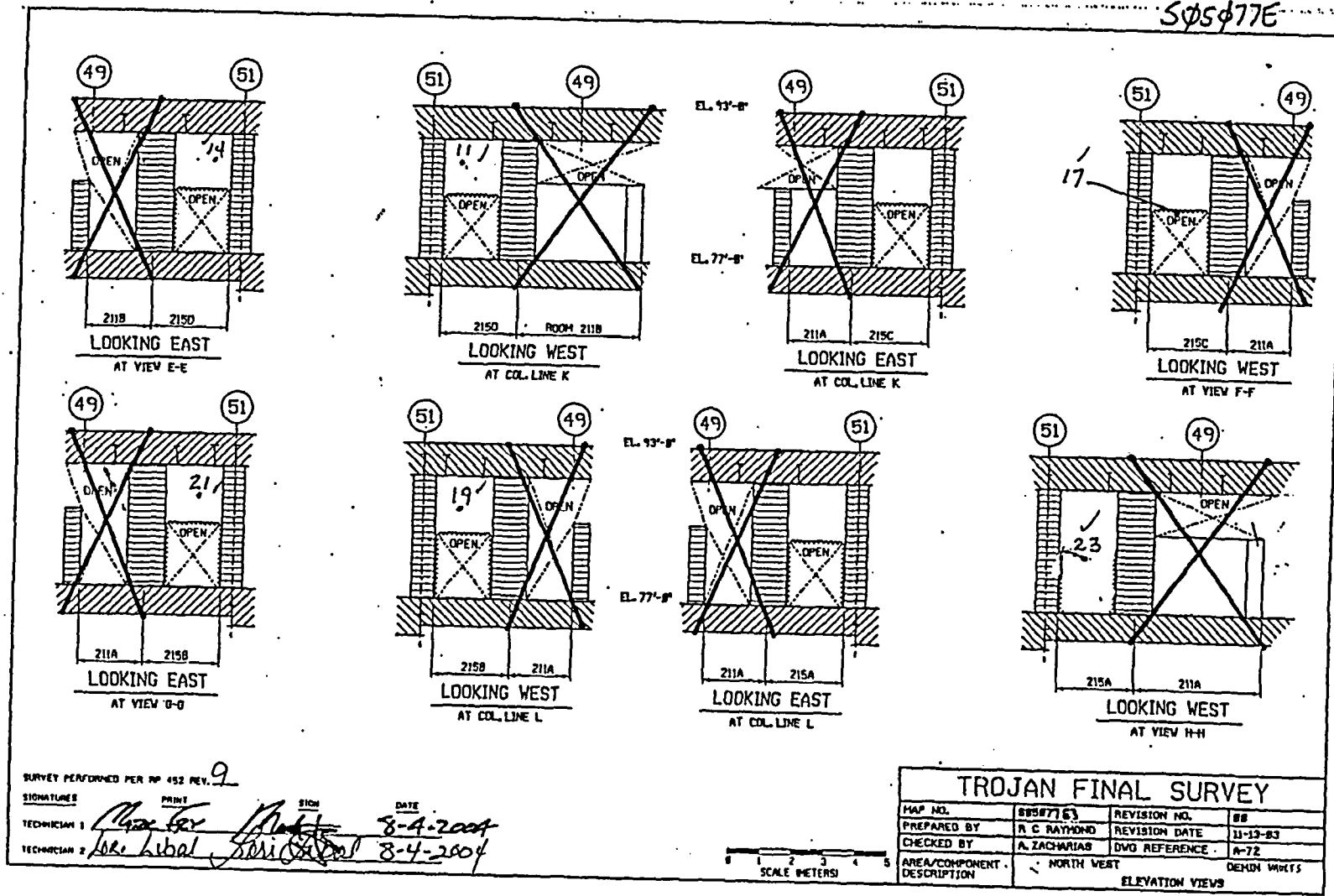
Survey Unit ID Code: S05077E

Survey Unit Name: AB 77' Elevation - West Demineralizer Vaults

Classification: Class 1

Size (m²): 195

Static Measurement Location Map



SURVEY PERFORMED PER PP 452 REV. 9

SIGNATURES PRINT SIGN DATE

TECHNICIAN 1 *[Signature]* *[Print Name]* 8-4-2004

TECHNICIAN 2 *[Signature]* *[Print Name]* 8-4-2004

FINAL SURVEY RESULTS SUMMARY

| | |
|---|-----------------------------|
| Survey Unit ID Code: S05077F | Classification: Class 1 |
| Survey Unit Name: AB 77' Elevation - East Demineralizer Valve Gallery, Vault Floors, and Lower Walls | Size (m ²): 164 |

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|--------------------------|---------------|-------------------------|------------|-----|-----|
| 1 | 37 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 1.158e+003
 Maximum Value : 2.381e+003
 Range : 1.223e+003
 Median : 1.711e+003
 Std. Deviation : 2.858e+002
 Mean : 1.694e+003
 95% UCL : 1.773e+003

Measurement Values

| Location | Value | Location | Value | Location | Value |
|----------|------------|----------|------------|----------|------------|
| 000001 | 1.874e+003 | 000018 | 1.756e+003 | 000035 | 1.711e+003 |
| 000002 | 1.659e+003 | 000019 | 1.607e+003 | 000036 | 1.730e+003 |
| 000003 | 1.574e+003 | 000020 | 1.861e+003 | 000037 | 1.880e+003 |
| 000004 | 1.913e+003 | 000021 | 1.295e+003 | | |
| 000005 | 1.874e+003 | 000022 | 2.381e+003 | | |
| 000006 | 1.334e+003 | 000023 | 1.477e+003 | | |
| 000007 | 1.795e+003 | 000024 | 1.412e+003 | | |
| 000008 | 1.275e+003 | 000025 | 1.301e+003 | | |
| 000009 | 2.374e+003 | 000026 | 1.327e+003 | | |
| 000010 | 1.464e+003 | 000027 | 1.158e+003 | | |
| 000011 | 1.711e+003 | 000028 | 1.535e+003 | | |
| 000012 | 1.900e+003 | 000029 | 1.965e+003 | | |
| 000013 | 1.464e+003 | 000030 | 1.965e+003 | | |
| 000014 | 1.334e+003 | 000031 | 1.893e+003 | | |
| 000015 | 1.939e+003 | 000032 | 1.704e+003 | | |
| 000016 | 1.854e+003 | 000033 | 1.867e+003 | | |
| 000017 | 1.835e+003 | 000034 | 1.678e+003 | | |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05077F

Classification: Class 1

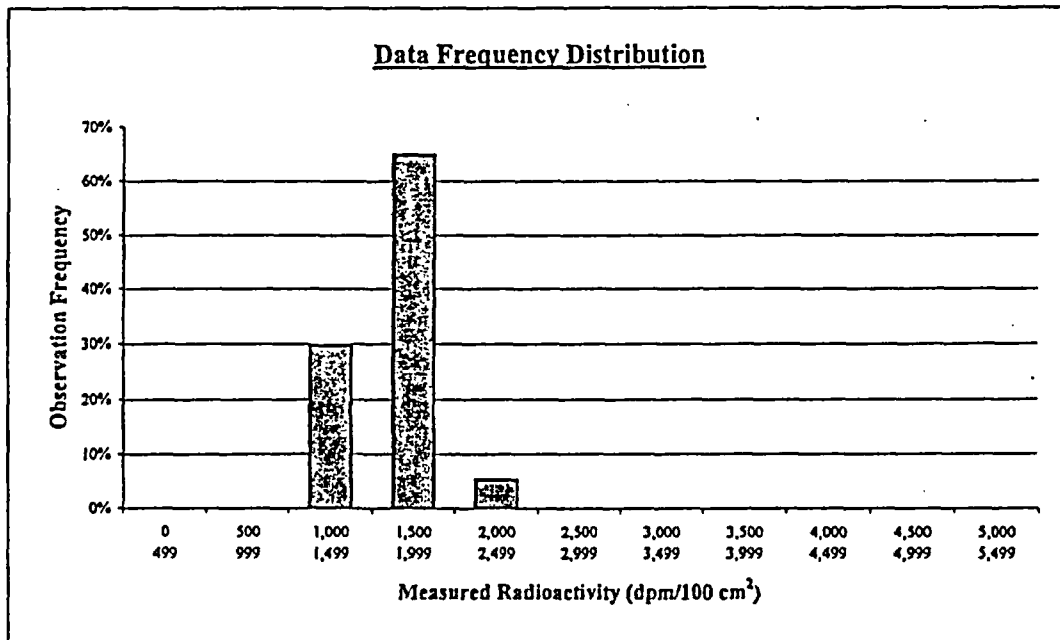
Survey Unit Name: AB 77' Elevation -

Size (m²): 164

East Demineralizer Valve Gallery, Vault Floors, and Lower Walls

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | | Statistical Quantities | |
|--|------------------|---------------------|-------------|------------------------|-------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? | Range: | 1,223 |
| Range | 1,223 | 1,429 | Pass | Median: | 1,711 |
| Median | 0.060 | 0.500 | Pass | Mean: | 1,694 |
| Mean | 1,694 | 6,000 | Pass | Std Dev: | 286 |
| Std Dev | 286 | 1,500 | Pass | Minimum: | 1,158 |
| All data less than DCGL; Sign statistical test not required. | | | | Maximum: | 2,381 |
| | | | | DCGL: | 7,500 |



| Plot Parameters | Interval | High End | Low End | Number of Observations | Observation Frequency |
|-------------------------|----------|----------|---------|------------------------|-----------------------|
| # of measurements: 37 | 1 | 499 | 0 | 0 | 0% |
| # of intervals: 11 | 2 | 999 | 500 | 0 | 0% |
| Interval increment: 500 | 3 | 1,499 | 1,000 | 11 | 30% |
| Minimum: 0 | 4 | 1,999 | 1,500 | 24 | 65% |
| Maximum: 5,499 | 5 | 2,499 | 2,000 | 2 | 5% |
| | 6 | 2,999 | 2,500 | 0 | 0% |
| | 7 | 3,499 | 3,000 | 0 | 0% |
| | 8 | 3,999 | 3,500 | 0 | 0% |
| | 9 | 4,499 | 4,000 | 0 | 0% |
| | 10 | 4,999 | 4,500 | 0 | 0% |
| | 11 | 5,499 | 5,000 | 0 | 0% |
| | Total: | | | 37 | 100% |

Comment:
None.

FINAL SURVEY RESULTS SUMMARY

| | |
|--|----------------------------------|
| Survey Unit ID Code: S05077F | Classification: Class 1 |
| Survey Unit Name: AB 77' Elevation – East Demineralizer Valve Gallery, Vault Floors, and Lower Walls | Size (m²): 164 |

Judgmental and Miscellaneous Data

| | |
|--|-----------------------------------|
| Measurement Type: Surface Scanning Beta | Scan Coverage (%): 100 |
| Measurement Units: dpm/100cm ² | Investigation Level: 7,500 |
| Minimum Value: 628 | Maximum Value: 12,220 |
| | |
| Measurement Type: Removable Beta | Number of Measurements: 37 |
| Measurement Units: dpm/100cm ² | Investigation Level: 750 |
| Minimum Value: 48 | Maximum Value: 89 |

Discussion of Anomalous Measurement Data

Investigation Summary

Reason for Investigation: Forty-five scan measurements exceeded the investigation level.

Elevated Measurement Comparison (EMC):

| | |
|---|------------------------|
| DCGL (Investigation Level): | 7,500 |
| Measurement Units: | dpm/100cm ² |
| Maximum Value: | 32,730 |
| Size of Area Exceeding DCGL (m²): | 1.4 |
| Size of Survey Unit (m²): | 164 |
| Survey Unit Area >DCGL (%): | 0.9 |
| EMC Value: | 27,750 |

Action Taken: Corrected measurement values for scan locations per guidance in memo FS-018-03; used similar method for elevated scan measurements obtained with a gas flow proportional detector. Deleted scan results for scan locations 075, 077, 079, 169, 172, 234, & 321 to be remediated. Replaced original scan results in SDMS with the corrected results for the others. Rescanned remediated areas. Applied EMC data processing to corrected results of scan locations that remain elevated.

Basis for Action Taken: Technical basis memorandum FS-018-03 provides guidance for correcting SDMS determined scan results for locations that exceed the investigation level by subtracting instrument background from the field results.

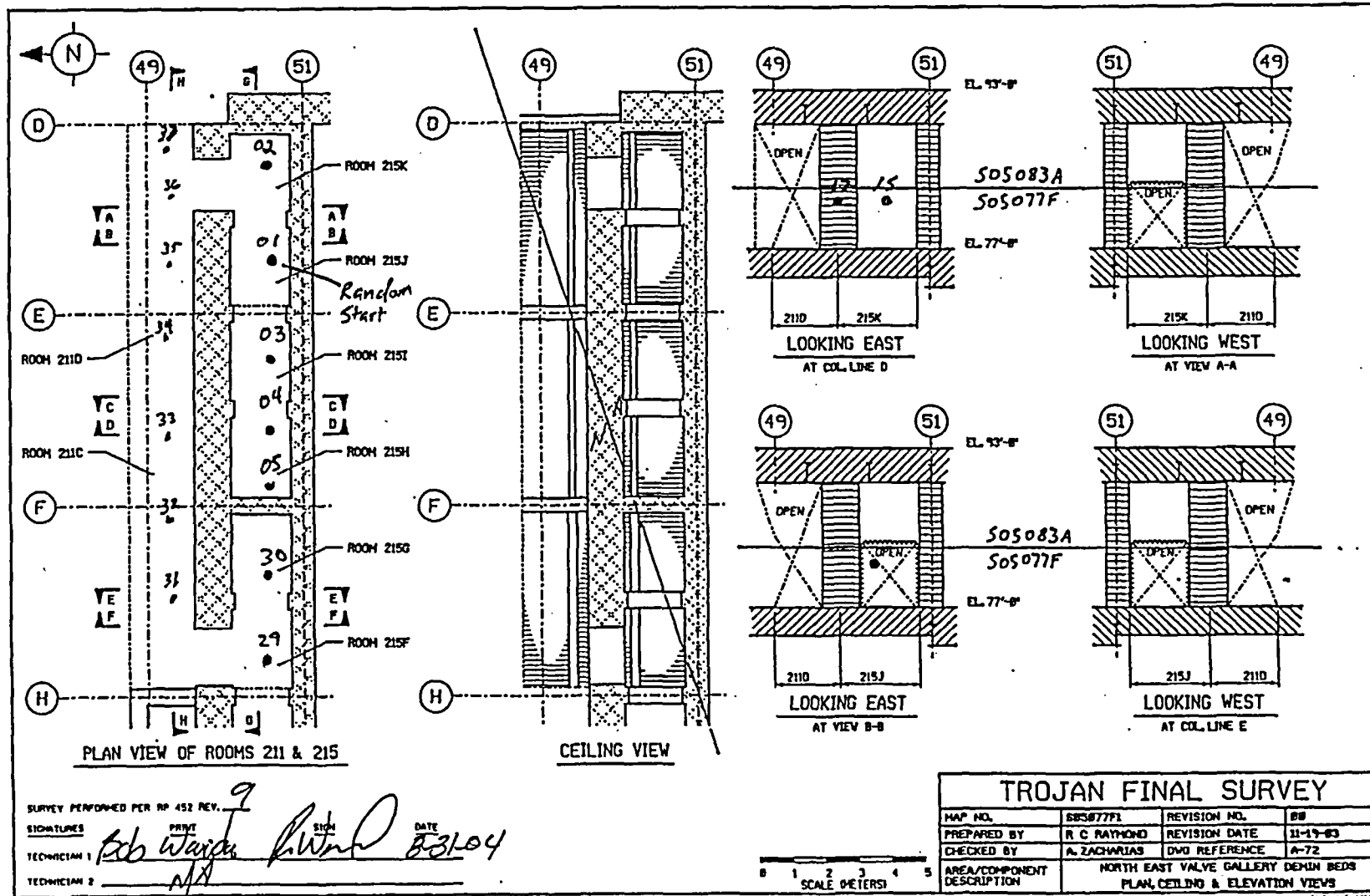
FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05077F

Classification: Class 1

Survey Unit Name: AB 77' Elevation - East Demineralizer Valve Gallery, Vault Floors, and Lower Walls Size (m²): 164

Static Measurement Location Map



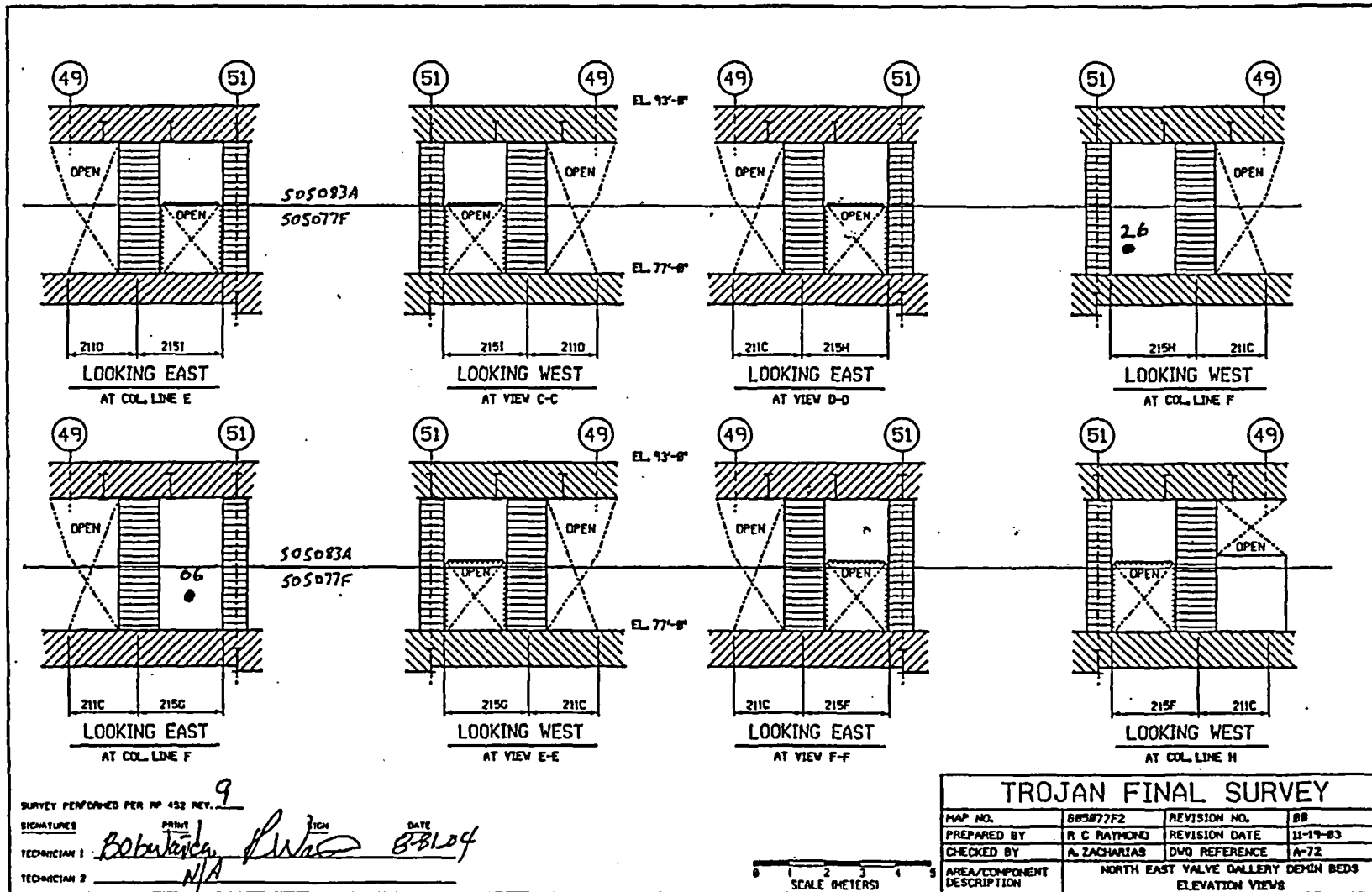
FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05077F

Classification: Class 1

Survey Unit Name: AB 77' Elevation - East Demineralizer Valve Gallery, Vault Floors, and Lower Walls Size (m²): 164

Static Measurement Location Map



SURVEY PERFORMED PER NO. 432 REV. 9

SIGNATURES: *Bob...* (PRIME), *...* (TECH)

TECHNICIAN 1: *Bob...* DATE: *8-10-04*

TECHNICIAN 2: *N/A*

| TROJAN FINAL SURVEY | | | |
|----------------------------|---|---------------|----------|
| MAP NO. | BBS077F2 | REVISION NO. | 00 |
| PREPARED BY | R. C. RAYMOND | REVISION DATE | 11-19-03 |
| CHECKED BY | A. ZACHARIAS | DWG REFERENCE | A-72 |
| AREA/COMPONENT DESCRIPTION | NORTH EAST VALVE GALLERY DEMON BEDS ELEVATION VIEWS | | |

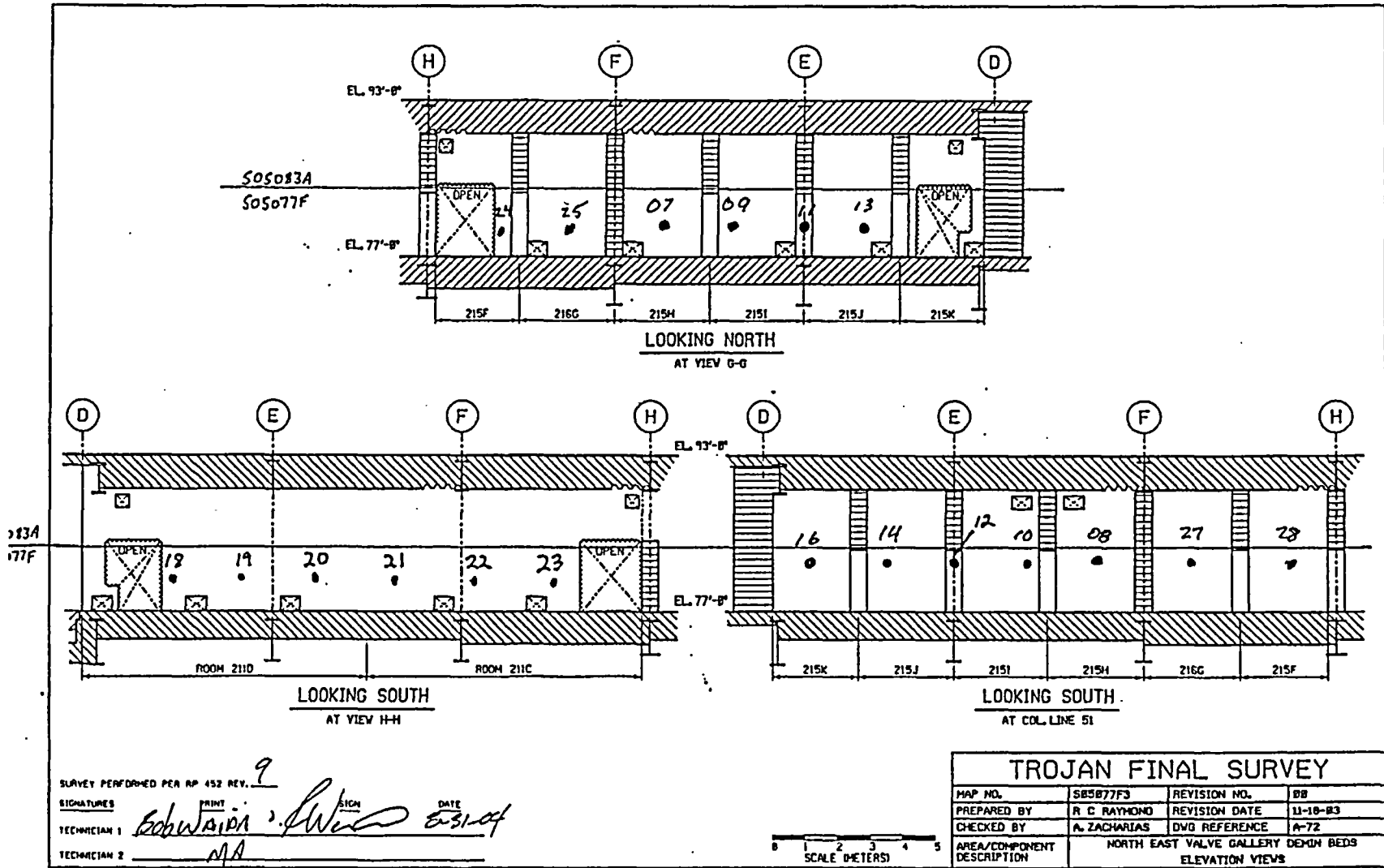
FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05077F

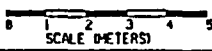
Classification: Class 1

Survey Unit Name: AB 77' Elevation - East Demineralizer Valve Gallery, Vault Floors, and Lower Walls Size (m²): 164

Static Measurement Location Map



SURVEY PERFORMED PER RP 452 REV. 9
 SIGNATURES: *[Signatures]*
 TECHNICIAN 1: *[Signature]* DATE: *05/10/04*
 TECHNICIAN 2: *[Signature]*



| TROJAN FINAL SURVEY | | | |
|----------------------------|---|---------------|----------|
| MAP NO. | S05077F3 | REVISION NO. | 08 |
| PREPARED BY | R C RAYMOND | REVISION DATE | 11-18-03 |
| CHECKED BY | A. ZACHARIAS | DWG REFERENCE | A-72 |
| AREA/COMPONENT DESCRIPTION | NORTH EAST VALVE GALLERY DEMON BEDS ELEVATION VIEWS | | |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05077G
 Survey Unit Name: AB 77' Elevation -
 Horizontal Pipe Way Lower Walls and Floor

Classification: Class 1
 Size (m²): 167

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|-----------------------|------------|-------------------------|------------|-----|-----|
| 1 | 40 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 1.065e+003
 Maximum Value : 2.529e+003
 Range : 1.464e+003
 Median : 1.423e+003
 Std. Deviation : 4.050e+002
 Mean : 1.614e+003
 95% UCL : 1.722e+003

Measurement Values

| Location | Value | Location | Value | Location | Value |
|----------|------------|----------|------------|----------|------------|
| 000001 | 1.065e+003 | 000018 | 1.303e+003 | 000035 | 2.529e+003 |
| 000002 | 2.039e+003 | 000019 | 1.368e+003 | 000036 | 1.303e+003 |
| 000003 | 1.155e+003 | 000020 | 2.245e+003 | 000037 | 1.336e+003 |
| 000004 | 1.387e+003 | 000021 | 1.400e+003 | 000038 | 2.142e+003 |
| 000005 | 2.142e+003 | 000022 | 1.394e+003 | 000039 | 1.258e+003 |
| 000006 | 1.652e+003 | 000023 | 2.271e+003 | 000040 | 2.233e+003 |
| 000007 | 1.420e+003 | 000024 | 1.426e+003 | | |
| 000008 | 2.310e+003 | 000025 | 1.374e+003 | | |
| 000009 | 1.394e+003 | 000026 | 2.187e+003 | | |
| 000010 | 1.400e+003 | 000027 | 1.349e+003 | | |
| 000011 | 2.174e+003 | 000028 | 1.316e+003 | | |
| 000012 | 1.432e+003 | 000029 | 1.394e+003 | | |
| 000013 | 1.232e+003 | 000030 | 1.484e+003 | | |
| 000014 | 2.078e+003 | 000031 | 1.329e+003 | | |
| 000015 | 1.432e+003 | 000032 | 1.465e+003 | | |
| 000016 | 1.432e+003 | 000033 | 1.232e+003 | | |
| 000017 | 2.039e+003 | 000034 | 1.452e+003 | | |

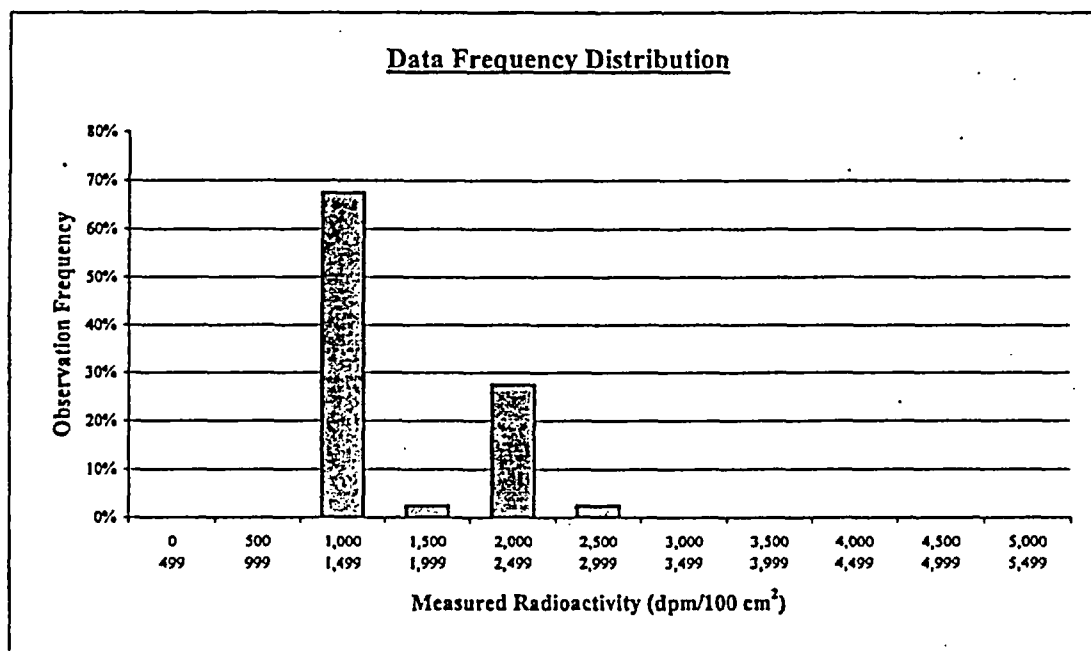
FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05077G
 Survey Unit Name: AB 77' Elevation -
 Horizontal Pipe Way Lower Walls and Floor

Classification: Class 1
 Size (m²): 167

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | | Statistical Quantities | |
|--|------------------|---------------------|-------------|------------------------|-------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? | Range: | 1,464 |
| Range | 1,464 | 2,025 | Pass | Median: | 1,423 |
| Median | 0.472 | 0.500 | Pass | Mean: | 1,614 |
| Mean | 1,614 | 6,000 | Pass | Std Dev: | 405 |
| Std Dev | 405 | 1,500 | Pass | Minimum: | 1,065 |
| All data less than DCGL; Sign statistical test not required. | | | | Maximum: | 2,529 |
| | | | | DCGL: | 7,500 |



| Plot Parameters | Interval | High End | Low End | Number of Observations | Observation Frequency |
|-------------------------|---------------|----------|---------|------------------------|-----------------------|
| # of measurements: 40 | 1 | 499 | 0 | 0 | 0% |
| # of intervals: 11 | 2 | 999 | 500 | 0 | 0% |
| Interval increment: 500 | 3 | 1,499 | 1,000 | 27 | 68% |
| Minimum: 0 | 4 | 1,999 | 1,500 | 1 | 3% |
| Maximum: 5,499 | 5 | 2,499 | 2,000 | 11 | 28% |
| | 6 | 2,999 | 2,500 | 1 | 3% |
| | 7 | 3,499 | 3,000 | 0 | 0% |
| | 8 | 3,999 | 3,500 | 0 | 0% |
| | 9 | 4,499 | 4,000 | 0 | 0% |
| | 10 | 4,999 | 4,500 | 0 | 0% |
| | 11 | 5,499 | 5,000 | 0 | 0% |
| | Total: | | | 40 | 100% |

Comment:
None.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05077G

Classification: Class 1

Survey Unit Name: AB 77' Elevation –

Size (m²): 167

Horizontal Pipe Way Lower Walls and Floor

Judgmental and Miscellaneous Data

Measurement Type: Surface Scanning Beta

Scan Coverage (%): 100

Measurement Units: dpm/100cm²

Investigation Level: 7,500

Minimum Value: 826

Maximum Value: 7,315

Measurement Type: Removable Beta

Number of Measurements: 40

Measurement Units: dpm/100cm²

Investigation Level: 750

Minimum Value: 42

Maximum Value: 85

Discussion of Anomalous Measurement Data

Investigation Summary

Reason for Investigation: One scan measurement exceeded the investigation level.

Elevated Measurement Comparison (EMC):

| | |
|---|------------------------|
| DCGL (Investigation Level): | 7,500 |
| Measurement Units: | dpm/100cm ² |
| Maximum Value: | 9,215 |
| Size of Area Exceeding DCGL (m²): | N/A |
| Size of Survey Unit (m²): | N/A |
| Survey Unit Area >DCGL (%): | N/A |
| EMC Value: | N/A |

Action Taken: Corrected measurement value for scan location per guidance in memo FS-018-03. Replaced original scan result in SDMS with this result, which corrected to less than the investigation level.

Basis for Action Taken: Technical basis memorandum FS-018-03 provides guidance for correcting SDMS determined scan results for locations that exceed the investigation level by subtracting instrument background from the field results.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05077G

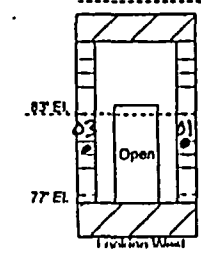
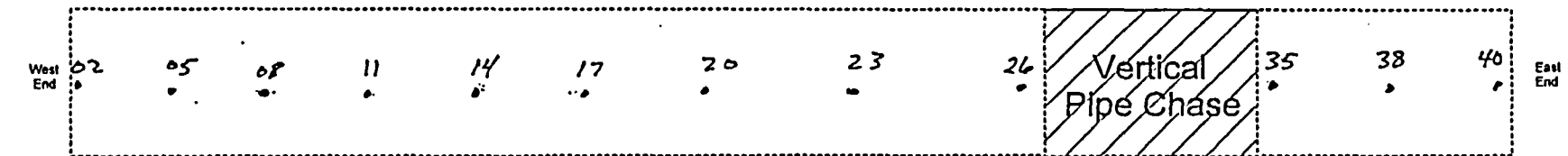
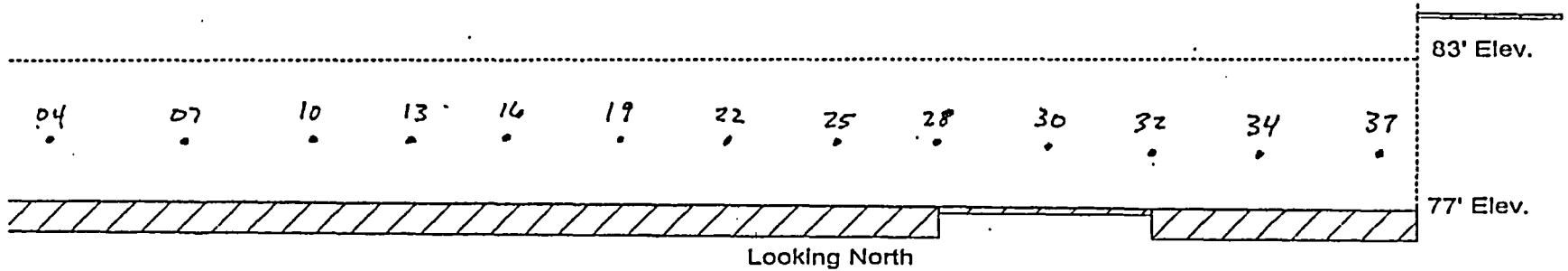
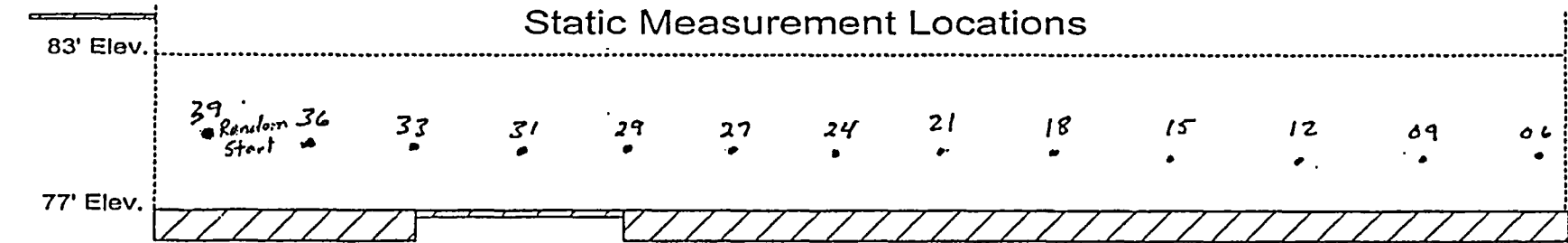
Classification: Class 1

Survey Unit Name: AB 77' Elevation - Horizontal Pipe Way Lower Walls and Floor

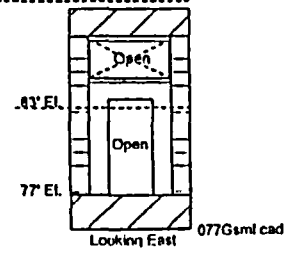
Size (m²): 167

Static Measurement Location Map

Static Measurement Locations



Data Collection Performed IAW RP 452 Rev. 9
 J. Schell *[Signature]* 7.22.04
 Survey Technician Date
 A. Schell *[Signature]* 7/22/04
 Survey Technician Date



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05077H

Classification: Class 1

Survey Unit Name: AB 77' Elevation -

Size (m²): 112

West Filter Valve Gallery Floor and Lower Walls

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|-----------------------|------------|-------------------------|------------|-----|-----|
| 1 | 41 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 1.458e+003
 Maximum Value : 2.704e+003
 Range : 1.246e+003
 Median : 1.781e+003
 Std. Deviation : 3.936e+002
 Mean : 1.927e+003
 95% UCL : 2.031e+003

Measurement Values

| Location | Value | Location | Value | Location | Value |
|----------|------------|----------|------------|----------|------------|
| 000001 | 1.665e+003 | 000018 | 2.516e+003 | 000035 | 1.613e+003 |
| 000002 | 1.749e+003 | 000019 | 1.813e+003 | 000036 | 1.736e+003 |
| 000003 | 2.671e+003 | 000020 | 1.529e+003 | 000037 | 1.645e+003 |
| 000004 | 1.723e+003 | 000021 | 1.703e+003 | 000038 | 1.568e+003 |
| 000005 | 1.607e+003 | 000022 | 2.394e+003 | 000039 | 2.484e+003 |
| 000006 | 1.594e+003 | 000023 | 2.407e+003 | 000040 | 2.039e+003 |
| 000007 | 1.697e+003 | 000024 | 1.903e+003 | 000041 | 1.581e+003 |
| 000008 | 2.387e+003 | 000025 | 1.549e+003 | | |
| 000009 | 1.878e+003 | 000026 | 1.458e+003 | | |
| 000010 | 1.574e+003 | 000027 | 1.781e+003 | | |
| 000011 | 1.820e+003 | 000028 | 2.697e+003 | | |
| 000012 | 2.155e+003 | 000029 | 2.658e+003 | | |
| 000013 | 2.704e+003 | 000030 | 1.703e+003 | | |
| 000014 | 1.839e+003 | 000031 | 1.529e+003 | | |
| 000015 | 1.794e+003 | 000032 | 1.755e+003 | | |
| 000016 | 1.794e+003 | 000033 | 2.646e+003 | | |
| 000017 | 2.045e+003 | 000034 | 1.607e+003 | | |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05077H

Classification: Class 1

Survey Unit Name: AB 77' Elevation -

Size (m²): 112

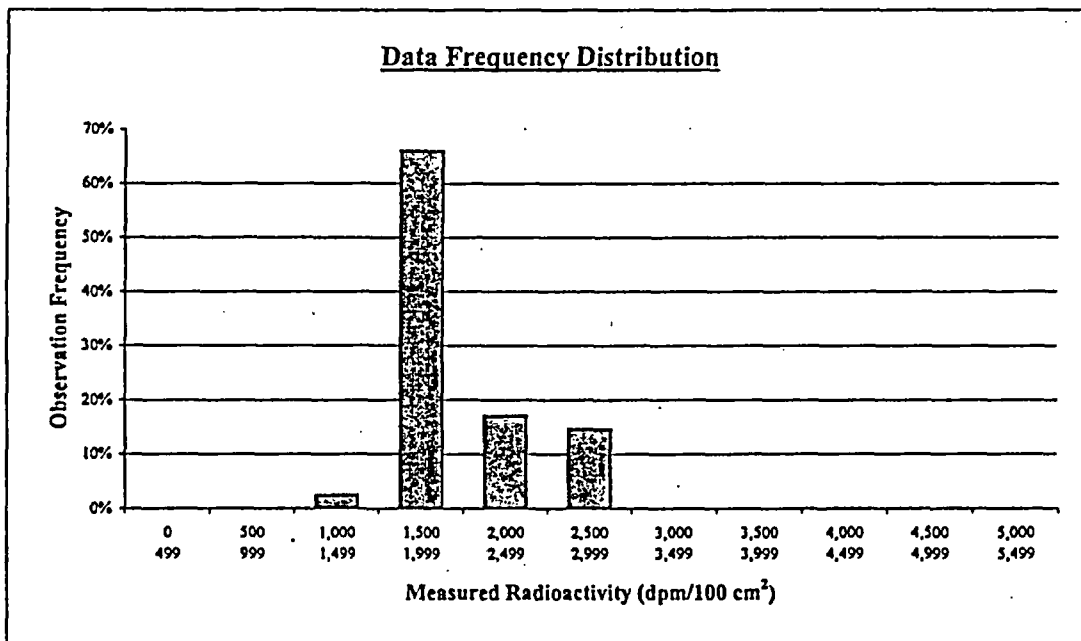
West Filter Valve Gallery Floor and Lower Walls

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | |
|-------------------------|------------------|---------------------|-------------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? |
| Range | 1,246 | 1,968 | Pass |
| Median | 0.371 | 0.500 | Pass |
| Mean | 1,927 | 6,000 | Pass |
| Std Dev | 394 | 1,500 | Pass |

| Statistical Quantities | |
|------------------------|-------|
| Range: | 1,246 |
| Median: | 1,781 |
| Mean: | 1,927 |
| Std Dev: | 394 |
| Minimum: | 1,458 |
| Maximum: | 2,704 |
| DCGL: | 7,500 |

All data less than DCGL; Sign statistical test not required.



| Plot Parameters | |
|---------------------|-------|
| # of measurements: | 41 |
| # of intervals: | 11 |
| Interval increment: | 500 |
| Minimum: | 0 |
| Maximum: | 5,499 |

| Interval | High End | Low End | Number of Observations | Observation Frequency |
|----------|----------|---------|------------------------|-----------------------|
| 1 | 499 | 0 | 0 | 0% |
| 2 | 999 | 500 | 0 | 0% |
| 3 | 1,499 | 1,000 | 1 | 2% |
| 4 | 1,999 | 1,500 | 27 | 66% |
| 5 | 2,499 | 2,000 | 7 | 17% |
| 6 | 2,999 | 2,500 | 6 | 15% |
| 7 | 3,499 | 3,000 | 0 | 0% |
| 8 | 3,999 | 3,500 | 0 | 0% |
| 9 | 4,499 | 4,000 | 0 | 0% |
| 10 | 4,999 | 4,500 | 0 | 0% |
| 11 | 5,499 | 5,000 | 0 | 0% |
| Total: | | | 41 | 100% |

Comment:

None.

FINAL SURVEY RESULTS SUMMARY

| | |
|--|----------------------------------|
| Survey Unit ID Code: S05077H | Classification: Class 1 |
| Survey Unit Name: AB 77' Elevation – West Filter Valve Gallery Floor and Lower Walls | Size (m²): 112 |

Judgmental and Miscellaneous Data

| | |
|--|-----------------------------------|
| Measurement Type: Surface Scanning Beta | Scan Coverage (%): 100 |
| Measurement Units: dpm/100cm ² | Investigation Level: 7,500 |
| Minimum Value: 853 | Maximum Value: 10,790 |

| | |
|--|-----------------------------------|
| Measurement Type: Removable Beta | Number of Measurements: 41 |
| Measurement Units: dpm/100cm ² | Investigation Level: 750 |
| Minimum Value: 6 | Maximum Value: 80 |

Discussion of Anomalous Measurement Data

Investigation Summary

Reason for Investigation: Eight scan measurements exceeded the investigation level.

Elevated Measurement Comparison (EMC):

| | |
|---|------------------------|
| DCGL (Investigation Level): | 7,500 |
| Measurement Units: | dpm/100cm ² |
| Maximum Value: | 12,310 |
| Size of Area Exceeding DCGL (m²): | 0.026 |
| Size of Survey Unit (m²): | 112 |
| Survey Unit Area >DCGL (%): | 0.023 |
| EMC Value: | 36,750 |

Action Taken: Corrected measurement values for scan locations per guidance in memo FS-018-03; used similar method for measurements obtained with a 43-68 gas flow proportional detector. Replaced original scan results in SDMS with the corrected results. Applied EMC data processing to corrected scan location 042 that remains elevated.

Basis for Action Taken: Technical basis memorandum FS-018-03 provides guidance for correcting SDMS determined scan results for locations that exceed the investigation level by subtracting instrument background from the field results:

FINAL SURVEY RESULTS SUMMARY

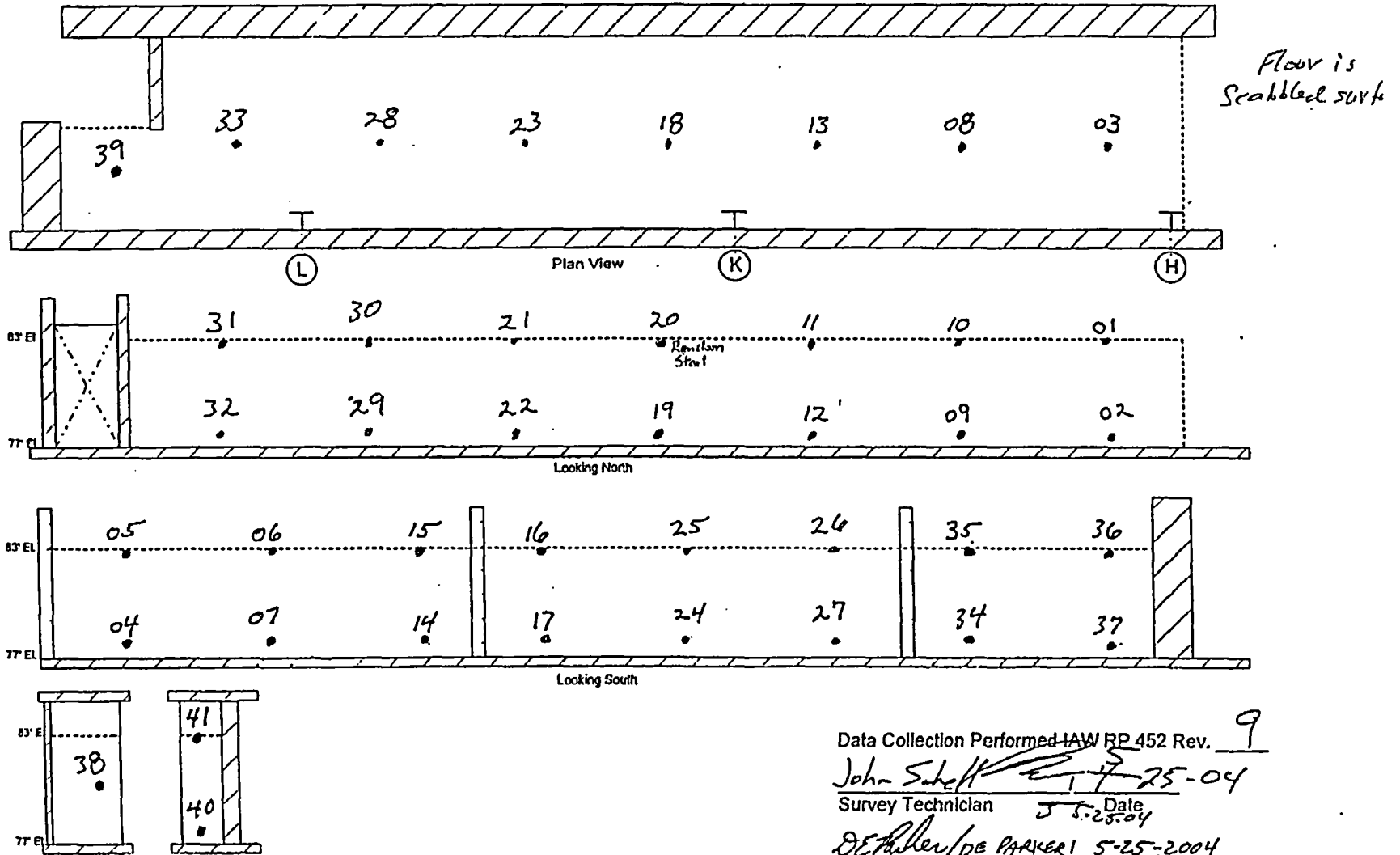
Survey Unit ID Code: S05077H

Classification: Class 1

Survey Unit Name: AB 77' Elevation - West Filter Valve Gallery Floor and Lower Walls

Size (m²): 112

Static Measurement Location Map



Data Collection Performed IAW RP 452 Rev. 9
 John Schell *[Signature]* 5-25-04
 Survey Technician Date
 DE PAARER/DE PAARER 5-25-2004

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05077J

Classification: Class 1

Survey Unit Name: AB 77' Elevation -

Size (m²): 156

East Filter Valve Gallery Floor and Walls

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|-----------------------|------------|-------------------------|------------|-----|-----|
| 1 | 30 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 1.129e+003
 Maximum Value : 2.020e+003
 Range : 8.910e+002
 Median : 1.416e+003
 Std. Deviation : 3.323e+002
 Mean : 1.529e+003
 95% UCL : 1.631e+003

Measurement Values

| Location | Value | Location | Value |
|----------|------------|----------|------------|
| 000001 | 1.871e+003 | 000018 | 1.232e+003 |
| 000002 | 1.884e+003 | 000019 | 1.168e+003 |
| 000003 | 1.807e+003 | 000020 | 1.400e+003 |
| 000004 | 1.871e+003 | 000021 | 1.936e+003 |
| 000005 | 1.942e+003 | 000022 | 1.916e+003 |
| 000006 | 1.716e+003 | 000023 | 2.007e+003 |
| 000007 | 1.155e+003 | 000024 | 1.968e+003 |
| 000008 | 1.303e+003 | 000025 | 2.020e+003 |
| 000009 | 1.226e+003 | 000026 | 1.910e+003 |
| 000010 | 1.239e+003 | 000027 | 1.232e+003 |
| 000011 | 1.232e+003 | 000028 | 1.581e+003 |
| 000012 | 1.168e+003 | 000029 | 1.561e+003 |
| 000013 | 1.323e+003 | 000030 | 1.258e+003 |
| 000014 | 1.161e+003 | | |
| 000015 | 1.129e+003 | | |
| 000016 | 1.207e+003 | | |
| 000017 | 1.432e+003 | | |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05077J

Classification: Class 1

Survey Unit Name: AB 77' Elevation -

Size (m²): 156

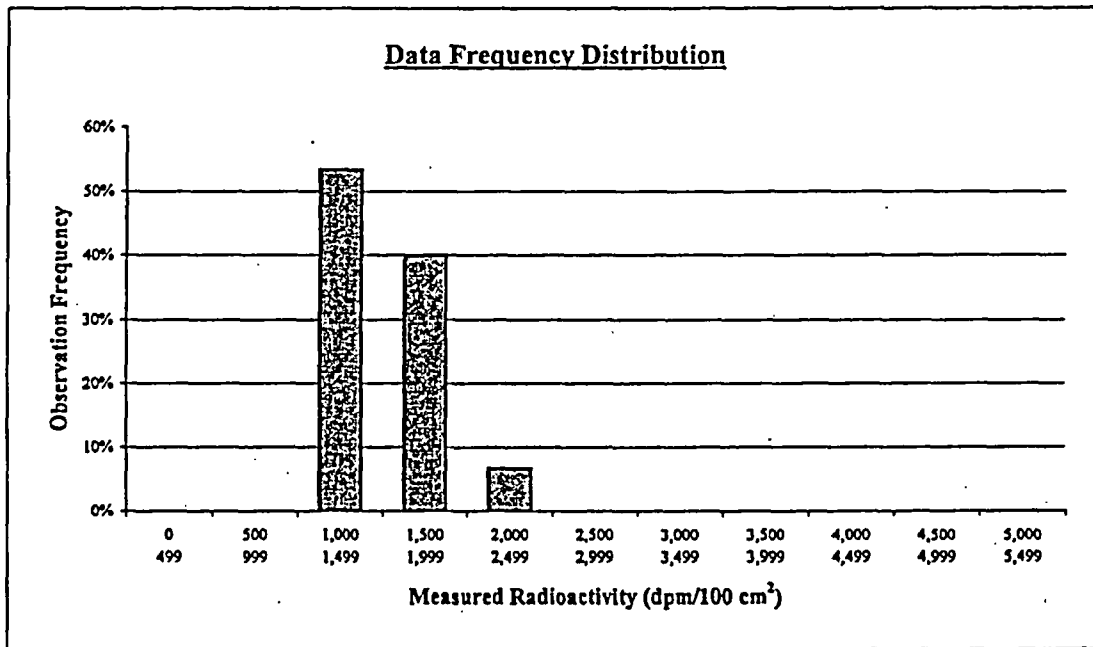
East Filter Valve Gallery Floor and Walls

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | |
|-------------------------|------------------|---------------------|-------------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? |
| Range | 891 | 1,662 | Pass |
| Median | 0.339 | 0.500 | Pass |
| Mean | 1,529 | 6,000 | Pass |
| Std Dev | 332 | 1,500 | Pass |

| Statistical Quantities | |
|------------------------|-------|
| Range: | 891 |
| Median: | 1,416 |
| Mean: | 1,529 |
| Std Dev: | 332 |
| Minimum: | 1,129 |
| Maximum: | 2,020 |
| DCGL: | 7,500 |

All data less than DCGL; Sign statistical test not required.



| Plot Parameters | |
|---------------------|-------|
| # of measurements: | 30 |
| # of intervals: | 11 |
| Interval increment: | 500 |
| Minimum: | 0 |
| Maximum: | 5,499 |

| Interval | High End | Low End | Number of Observations | Observation Frequency |
|----------|----------|---------|------------------------|-----------------------|
| 1 | 499 | 0 | 0 | 0% |
| 2 | 999 | 500 | 0 | 0% |
| 3 | 1,499 | 1,000 | 16 | 53% |
| 4 | 1,999 | 1,500 | 12 | 40% |
| 5 | 2,499 | 2,000 | 2 | 7% |
| 6 | 2,999 | 2,500 | 0 | 0% |
| 7 | 3,499 | 3,000 | 0 | 0% |
| 8 | 3,999 | 3,500 | 0 | 0% |
| 9 | 4,499 | 4,000 | 0 | 0% |
| 10 | 4,999 | 4,500 | 0 | 0% |
| 11 | 5,499 | 5,000 | 0 | 0% |
| Total: | | | 30 | 100% |

Comment:

None.

FINAL SURVEY RESULTS SUMMARY

| | |
|--|----------------------------------|
| Survey Unit ID Code: S05077J | Classification: Class 1 |
| Survey Unit Name: AB 77' Elevation – East Filter Valve Gallery Floor and Walls | Size (m²): 156 |

Judgmental and Miscellaneous Data

| | |
|--|-----------------------------------|
| Measurement Type: Surface Scanning Beta | Scan Coverage (%): 100 |
| Measurement Units: dpm/100cm ² | Investigation Level: 7,500 |
| Minimum Value: 876 | Maximum Value: 24,120 |
| | |
| Measurement Type: Removable Beta | Number of Measurements: 30 |
| Measurement Units: dpm/100cm ² | Investigation Level: 750 |
| Minimum Value: 46 | Maximum Value: 85 |

Discussion of Anomalous Measurement Data

Investigation Summary

Reason for Investigation: Nine scan measurements exceeded the investigation level.

Elevated Measurement Comparison (EMC):

| | |
|---|------------------------|
| DCGL (Investigation Level): | 7,500 |
| Measurement Units: | dpm/100cm ² |
| Maximum Value: | 25,670 |
| Size of Area Exceeding DCGL (m²): | 0.08 |
| Size of Survey Unit (m²): | 156 |
| Survey Unit Area >DCGL (%): | 0.05 |
| EMC Value: | 36,750 |

Action Taken: Corrected measurement values for scan locations per guidance in memo FS-018-03; used similar method for measurements obtained with a 43-68 gas flow proportional detector. Replaced original scan results in SDMS with the corrected results. Applied EMC data processing to corrected scan locations 039 & 173 that remain elevated.

Basis for Action Taken: Technical basis memorandum FS-018-03 provides guidance for correcting SDMS determined scan results for locations that exceed the investigation level by subtracting instrument background from the field results.

FINAL SURVEY RESULTS SUMMARY

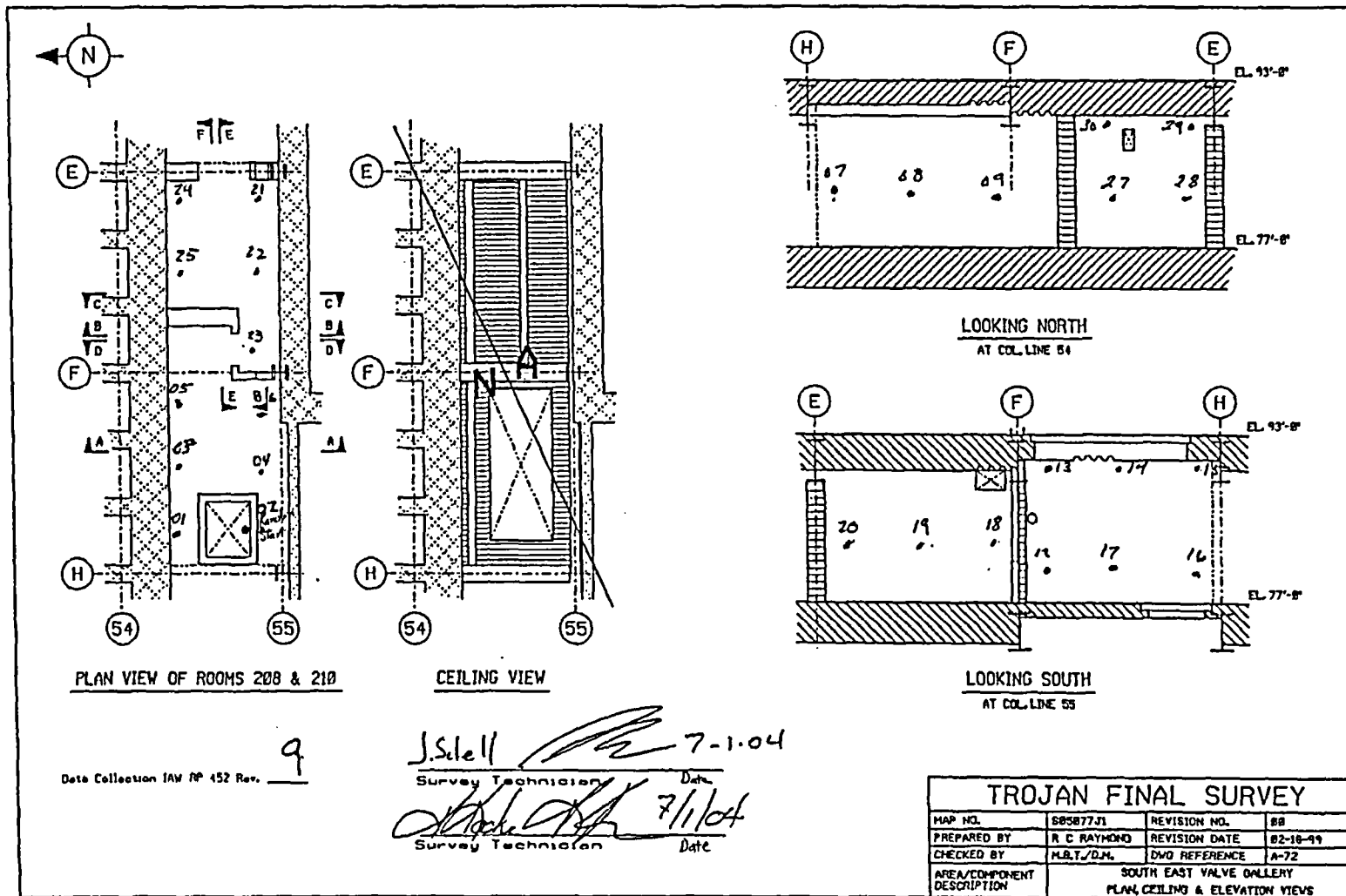
Survey Unit ID Code: S05077J

Survey Unit Name: AB 77' Elevation - East Filter Valve Gallery Floor and Walls

Classification: Class 1

Size (m²): 156

Static Measurement Location Map



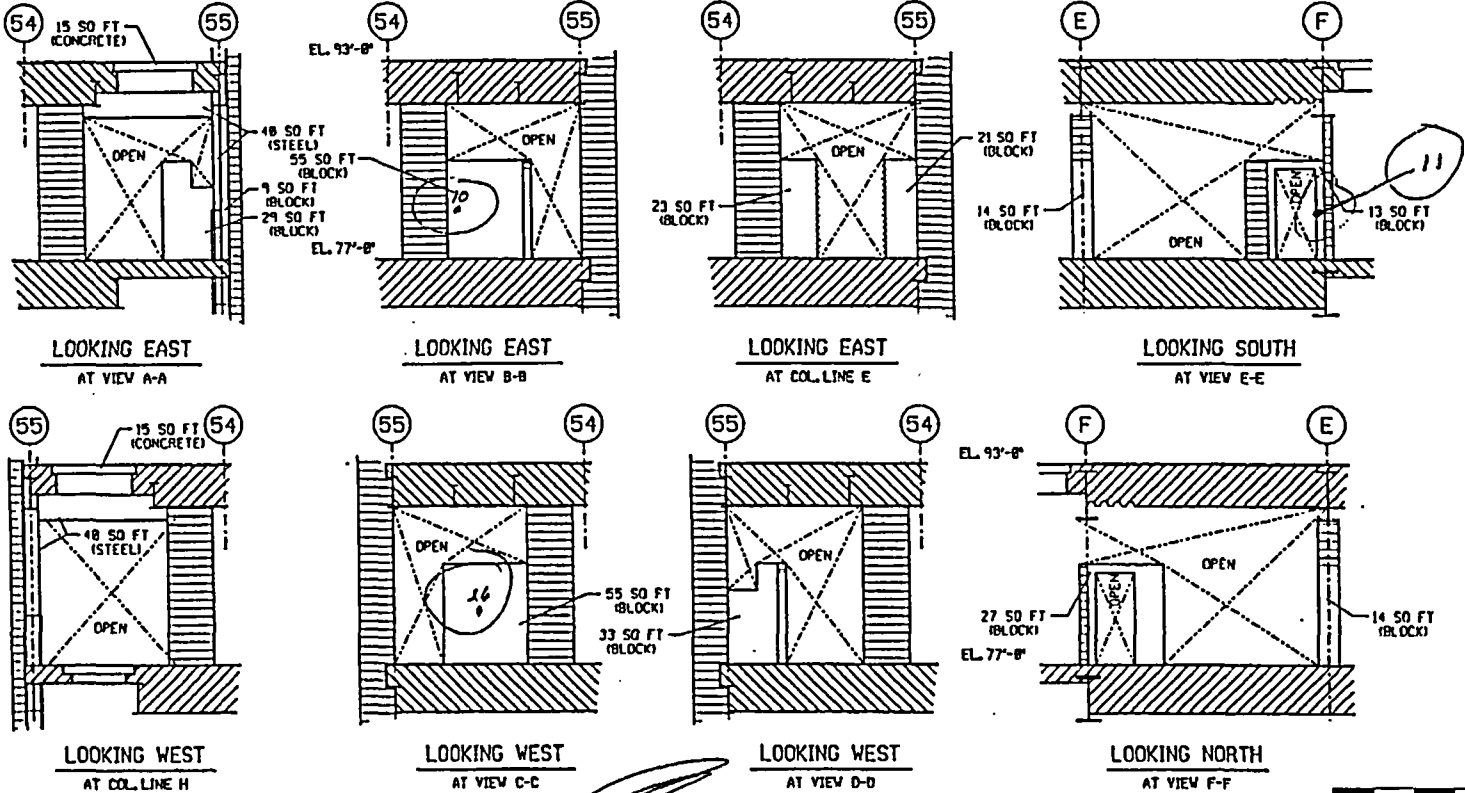
FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05077J
 Survey Unit Name: AB 77' Elevation - East Filter Valve Gallery Floor and Walls

Classification: Class 1
 Size (m²): 156

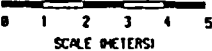
Static Measurement Location Map

RP SURVEY FORM



Date Collection performed IAW RP 452 Rev. 9

J. Schell 7-1-04
 Survey Technician Date
A. Kuhn 7/1/04
 Survey Technician Date



| TROJAN FINAL SURVEY | | | |
|----------------------------|--|---------------|----------|
| MAP NO. | S05077J2 | REVISION NO. | 00 |
| PREPARED BY | R C RAYMOND | REVISION DATE | 02-10-99 |
| CHECKED BY | M.B.T./D.J.M. | DWG REFERENCE | A-72 |
| AREA/COMPONENT DESCRIPTION | SOUTH EAST VALVE GALLERY ELEVATION VIEWS | | |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05077K

Classification: Class 1

Survey Unit Name: AB 77' Elevation - Filter Pit "A"

Size (m²): 36

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # OF Meas. | Measurement Unit | DCGL | SGN | WRS |
|--------------------------|---------------|-------------------------|------------|-----|-----|
| 1 | 35 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 4.233e+002
 Maximum Value : 3.333e+003
 Range : 2.910e+003
 Median : 1.411e+003
 Std. Deviation : 7.345e+002
 Mean : 1.461e+003
 95% UCL : 1.671e+003

Measurement Values

| Location | Value | Location | Value | Location | Value |
|----------|------------|----------|------------|----------|------------|
| 000001 | 2.431e+003 | 000018 | 3.016e+003 | 000035 | 7.332e+002 |
| 000002 | 1.304e+003 | 000019 | 2.063e+003 | | |
| 000003 | 1.417e+003 | 000020 | 3.333e+003 | | |
| 000004 | 2.526e+003 | 000021 | 2.937e+003 | | |
| 000005 | 1.442e+003 | 000022 | 6.311e+002 | | |
| 000006 | 1.537e+003 | 000023 | 4.233e+002 | | |
| 000007 | 1.581e+003 | 000024 | 5.367e+002 | | |
| 000008 | 1.487e+003 | 000025 | 7.823e+002 | | |
| 000009 | 2.192e+003 | 000026 | 8.881e+002 | | |
| 000010 | 1.487e+003 | 000027 | 8.503e+002 | | |
| 000011 | 1.417e+003 | 000028 | 8.579e+002 | | |
| 000012 | 1.531e+003 | 000029 | 8.352e+002 | | |
| 000013 | 1.310e+003 | 000030 | 7.483e+002 | | |
| 000014 | 1.411e+003 | 000031 | 7.899e+002 | | |
| 000015 | 1.342e+003 | 000032 | 1.104e+003 | | |
| 000016 | 1.568e+003 | 000033 | 1.187e+003 | | |
| 000017 | 2.356e+003 | 000034 | 1.092e+003 | | |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05077K

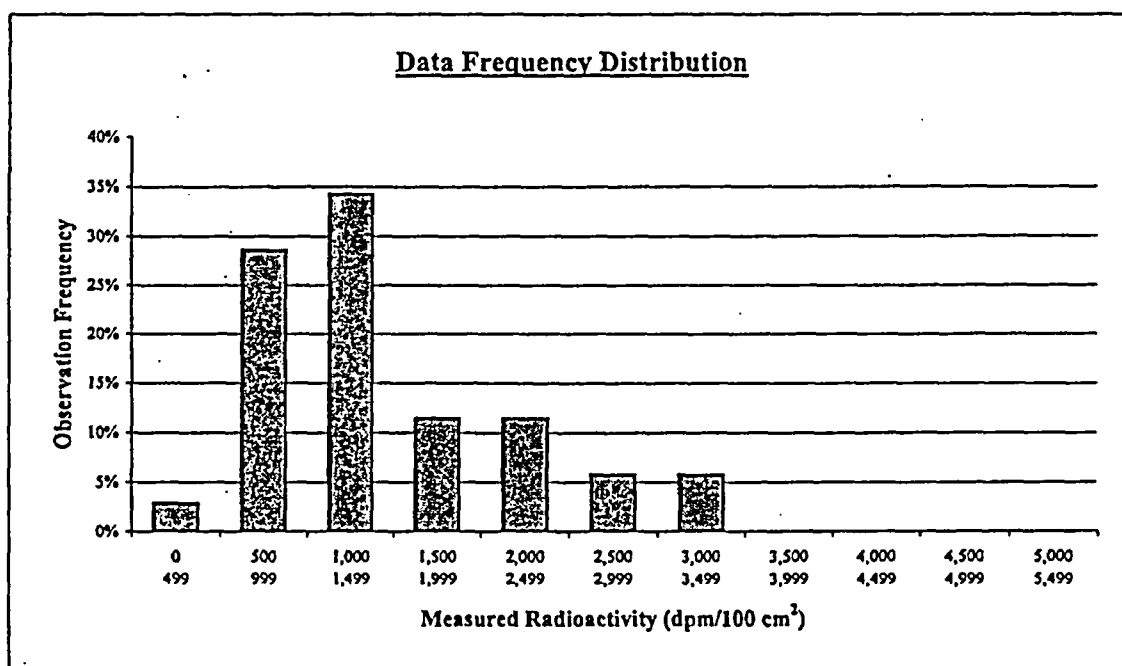
Classification: Class 1

Survey Unit Name: AB 77' Elevation - Filter Pit "A"

Size (m²): 36

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | | Statistical Quantities | |
|--|------------------|---------------------|-------------|------------------------|-------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? | Range: | 2,910 |
| Range | 2,910 | 3,673 | Pass | Median: | 1,411 |
| Median | 0.068 | 0.500 | Pass | Mean: | 1,461 |
| Mean | 1,461 | 6,000 | Pass | Std Dev: | 735 |
| Std Dev | 735 | 1,500 | Pass | Minimum: | 423 |
| All data less than DCGL; Sign statistical test not required. | | | | Maximum: | 3,333 |
| | | | | DCGL: | 7,500 |



| Plot Parameters | | Number of Observations | | | | Observation Frequency |
|---------------------|----------|------------------------|--------------|-----------------------|-----------|-----------------------|
| Interval | High End | Low End | Observations | Observation Frequency | Frequency | |
| # of measurements: | 35 | | | | | |
| # of intervals: | 11 | | | | | |
| Interval increment: | 500 | | | | | |
| Minimum: | 0 | | | | | |
| Maximum: | 5,499 | | | | | |
| 1 | 499 | 0 | 1 | 3% | | |
| 2 | 999 | 500 | 10 | 29% | | |
| 3 | 1,499 | 1,000 | 12 | 34% | | |
| 4 | 1,999 | 1,500 | 4 | 11% | | |
| 5 | 2,499 | 2,000 | 4 | 11% | | |
| 6 | 2,999 | 2,500 | 2 | 6% | | |
| 7 | 3,499 | 3,000 | 2 | 6% | | |
| 8 | 3,999 | 3,500 | 0 | 0% | | |
| 9 | 4,499 | 4,000 | 0 | 0% | | |
| 10 | 4,999 | 4,500 | 0 | 0% | | |
| 11 | 5,499 | 5,000 | 0 | 0% | | |
| Total: | | | 35 | 100% | | |

Comment:
None.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05077K

Classification: Class 1

Survey Unit Name: AB 77' Elevation – Filter Pit "A"

Size (m²): 36

Judgmental and Miscellaneous Data

Measurement Type: Surface Scanning Beta

Scan Coverage (%): 100

Measurement Units: dpm/100cm²

Investigation Level: 7,500

Minimum Value: 1,062

Maximum Value: 17,060

Measurement Type: Removable Beta

Number of Measurements: 35

Measurement Units: dpm/100cm²

Investigation Level: 750

Minimum Value: 43

Maximum Value: 89

Discussion of Anomalous Measurement Data

Investigation Summary

Reason for Investigation: Two scan measurements exceeded the investigation level.

Elevated Measurement Comparison (EMC):

| | |
|---|------------------------|
| DCGL (Investigation Level): | 7,500 |
| Measurement Units: | dpm/100cm ² |
| Maximum Value: | 17,060 |
| Size of Area Exceeding DCGL (m²): | 0.03 |
| Size of Survey Unit (m²): | 36 |
| Survey Unit Area >DCGL (%): | 0.07 |
| EMC Value: | 36,750 |

Action Taken: Applied EMC data processing to elevated scan locations 020 & 026.

Basis for Action Taken: Two very small, localized areas of elevated radioactivity identified during scan surveys are less than 1 m².

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05077K

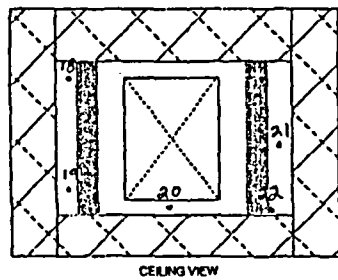
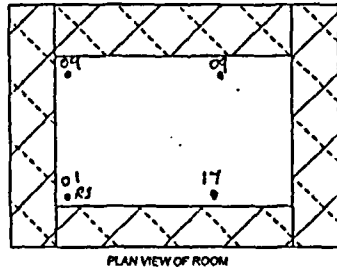
Survey Unit Name: AB 77' Elevation - Filter Pit "A"

Classification: Class 1

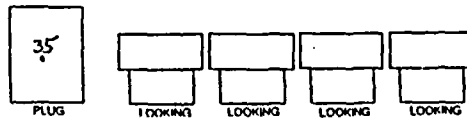
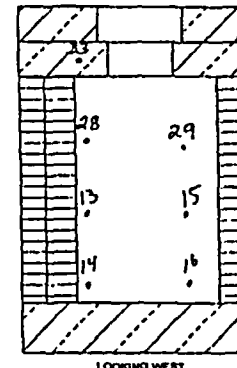
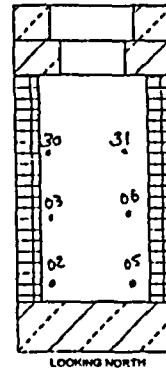
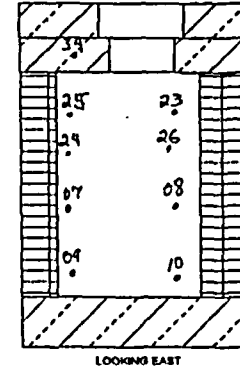
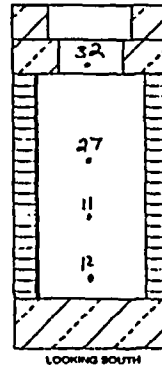
Size (m²): 36

Static Measurement Location Map

L = 1.1 m (3'7")



FINAL SURVEY UNIT
S05077K
Static Measurement Locations
Filter Pit A



Handwritten: Ron Keaton for Keaton
6-17-2004

Data Collected IAW RP 452 Rev. 9
Date: 6/17/04
Survey Technician: [Signature]
Date: [Signature]

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05077L

Classification: Class 1

Survey Unit Name: AB 77' Elevation - Filter Pit "B"

Size (m²): 36

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|--------------------------|---------------|-------------------------|------------|-----|-----|
| 1 | 34 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 7.407e+002
 Maximum Value : 2.356e+003
 Range : 1.615e+003
 Median : 1.591e+003
 Std. Deviation : 2.807e+002
 Mean : 1.619e+003
 95% UCL : 1.700e+003

Measurement Values

| Location | Value | Location | Value |
|----------|------------|----------|------------|
| 000001 | 1.372e+003 | 000018 | 1.403e+003 |
| 000002 | 1.526e+003 | 000019 | 1.637e+003 |
| 000003 | 2.276e+003 | 000020 | 1.649e+003 |
| 000004 | 1.421e+003 | 000021 | 1.698e+003 |
| 000005 | 1.575e+003 | 000022 | 1.575e+003 |
| 000006 | 1.723e+003 | 000023 | 1.606e+003 |
| 000007 | 1.310e+003 | 000024 | 1.569e+003 |
| 000008 | 1.649e+003 | 000025 | 1.501e+003 |
| 000009 | 1.698e+003 | 000026 | 1.470e+003 |
| 000010 | 2.356e+003 | 000027 | 1.495e+003 |
| 000011 | 1.673e+003 | 000028 | 1.692e+003 |
| 000012 | 1.637e+003 | 000029 | 1.538e+003 |
| 000013 | 1.483e+003 | 000030 | 1.821e+003 |
| 000014 | 1.470e+003 | 000031 | 1.815e+003 |
| 000015 | 1.624e+003 | 000032 | 2.067e+003 |
| 000016 | 1.446e+003 | 000033 | 2.000e+003 |
| 000017 | 1.526e+003 | 000034 | 7.407e+002 |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05077L

Classification: Class 1

Survey Unit Name: AB 77' Elevation - Filter Pit "B"

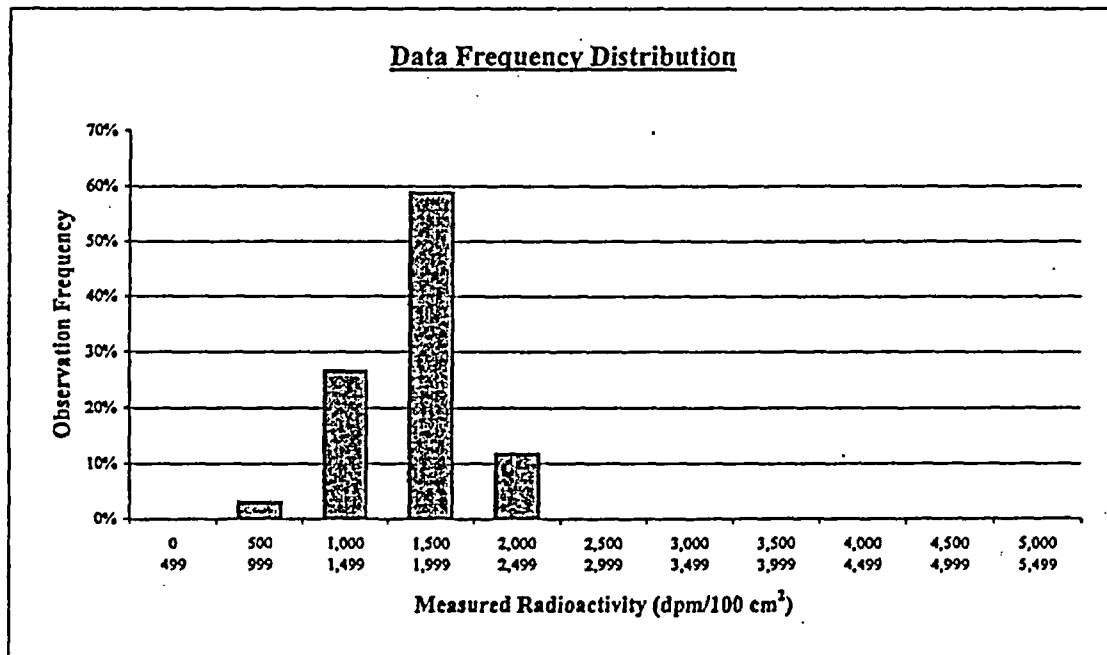
Size (m²): 36

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | |
|-------------------------|------------------|---------------------|-------------------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? |
| Range | 1,615 | 1,403 | See comment below |
| Median | 0.101 | 0.500 | Pass |
| Mean | 1,619 | 6,000 | Pass |
| Std Dev | 281 | 1,500 | Pass |

| Statistical Quantities | |
|------------------------|-------|
| Range: | 1,615 |
| Median: | 1,591 |
| Mean: | 1,619 |
| Std Dev: | 281 |
| Minimum: | 741 |
| Maximum: | 2,356 |
| DCGL: | 7,500 |

All data less than DCGL; Sign statistical test not required.



| Plot Parameters | |
|---------------------|-------|
| # of measurements: | 34 |
| # of intervals: | 11 |
| Interval increment: | 500 |
| Minimum: | 0 |
| Maximum: | 5,499 |

| Interval | High End | Low End | Number of Observations | Observation Frequency |
|----------|----------|---------|------------------------|-----------------------|
| 1 | 499 | 0 | 0 | 0% |
| 2 | 999 | 500 | 1 | 3% |
| 3 | 1,499 | 1,000 | 9 | 26% |
| 4 | 1,999 | 1,500 | 20 | 59% |
| 5 | 2,499 | 2,000 | 4 | 12% |
| 6 | 2,999 | 2,500 | 0 | 0% |
| 7 | 3,499 | 3,000 | 0 | 0% |
| 8 | 3,999 | 3,500 | 0 | 0% |
| 9 | 4,499 | 4,000 | 0 | 0% |
| 10 | 4,999 | 4,500 | 0 | 0% |
| 11 | 5,499 | 5,000 | 0 | 0% |
| Total: | | | 34 | 100% |

Comment:

Range failure is a test artifact due to a single measurement value that is less than 1,000 dpm, which makes the range slightly larger than the test criterion of 5 times the standard deviation. All measurements values are valid and accepted.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05077L

Classification: Class 1

Survey Unit Name: AB 77' Elevation – Filter Pit “B”

Size (m²): 36

Judgmental and Miscellaneous Data

Measurement Type: Surface Scanning Beta

Scan Coverage (%): 100

Measurement Units: dpm/100cm²

Investigation Level: 7,500

Minimum Value: 825

Maximum Value: 24,090

Measurement Type: Removable Beta

Number of Measurements: 34

Measurement Units: dpm/100cm²

Investigation Level: 750

Minimum Value: 49

Maximum Value: 85

Discussion of Anomalous Measurement Data

Investigation Summary

Reason for Investigation: Four scan measurements exceeded the investigation level.

Elevated Measurement Comparison (EMC):

| | |
|---|------------------------|
| DCGL (Investigation Level): | 7,500 |
| Measurement Units: | dpm/100cm ² |
| Maximum Value: | 27,590 |
| Size of Area Exceeding DCGL (m²): | 0.06 |
| Size of Survey Unit (m²): | 36 |
| Survey Unit Area >DCGL (%): | 0.16 |
| EMC Value: | 36,750 |

Action Taken: Corrected measurement values for scan locations per guidance in memo FS-018-03. Replaced original scan results in SDMS with the corrected results. Applied EMC data processing to corrected scan location 019 that remains elevated.

Basis for Action Taken: Technical basis memorandum FS-018-03 provides guidance for correcting SDMS determined scan results for locations that exceed the investigation level by subtracting instrument background from the field results.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05077L

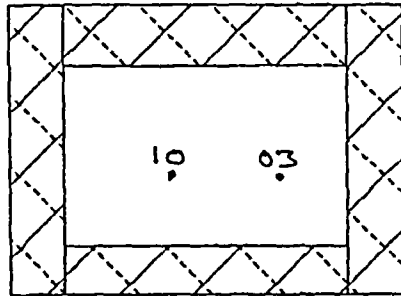
Survey Unit Name: AB 77' Elevation - Filter Pit "B"

Classification: Class 1

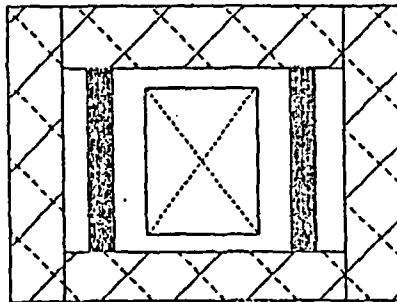
Size (m²): 36

Static Measurement Location Map

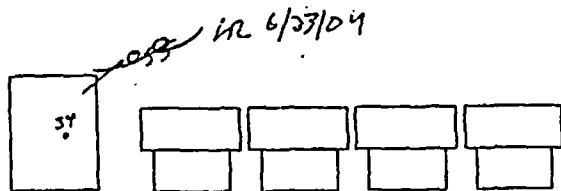
← N



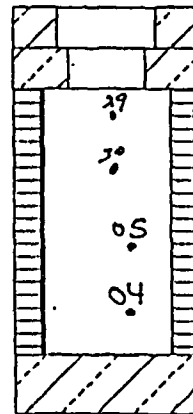
PLAN VIEW OF ROOM



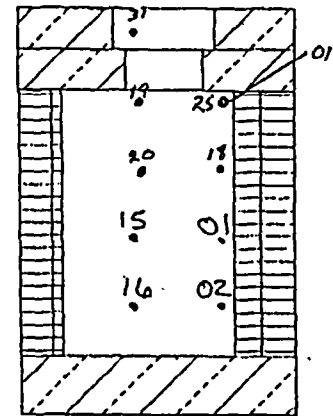
CEILING VIEW



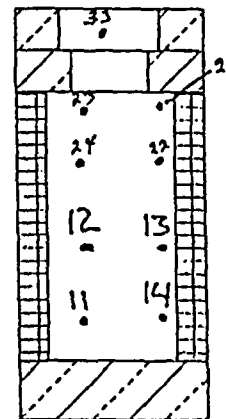
FINAL SURVEY UNIT
S05077L
Static Measurement Locations
Filter Pit B



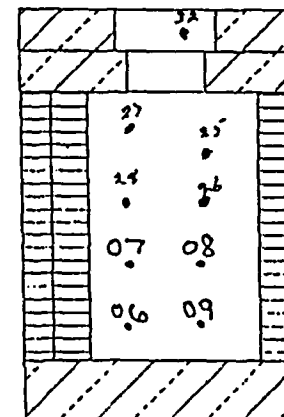
LOOKING SOUTH



LOOKING EAST



F-68



Data Collected IAW RP 482 Rev. _____
 DAVID WAIDA / Dec 16, 2004
 Survey Technician / Date
 S. Thomas / Dec 16, 2004

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05077M

Classification: Class 1

Survey Unit Name: AB 77' Elevation - Filter Pit "C"

Size (m²): 36

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|-----------------------|------------|-------------------------|------------|-----|-----|
| 1 | 31 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 6.898e+002
 Maximum Value : 2.436e+003
 Range : 1.746e+003
 Median : 1.458e+003
 Std. Deviation : 4.112e+002
 Mean : 1.426e+003
 95% UCL : 1.552e+003

Measurement Values

| Location | Value | Location | Value |
|----------|------------|----------|------------|
| 000001 | 2.436e+003 | 000018 | 1.772e+003 |
| 000002 | 2.289e+003 | 000019 | 1.569e+003 |
| 000003 | 2.073e+003 | 000020 | 9.235e+002 |
| 000004 | 2.030e+003 | 000021 | 9.717e+002 |
| 000005 | 1.483e+003 | 000022 | 1.098e+003 |
| 000006 | 1.292e+003 | 000023 | 1.009e+003 |
| 000007 | 1.477e+003 | 000024 | 8.864e+002 |
| 000008 | 1.710e+003 | 000025 | 9.197e+002 |
| 000009 | 1.538e+003 | 000026 | 1.001e+003 |
| 000010 | 1.495e+003 | 000027 | 1.387e+003 |
| 000011 | 1.458e+003 | 000028 | 1.265e+003 |
| 000012 | 1.532e+003 | 000029 | 1.372e+003 |
| 000013 | 1.667e+003 | 000030 | 1.061e+003 |
| 000014 | 1.489e+003 | 000031 | 6.898e+002 |
| 000015 | 1.372e+003 | | |
| 000016 | 1.427e+003 | | |
| 000017 | 1.526e+003 | | |

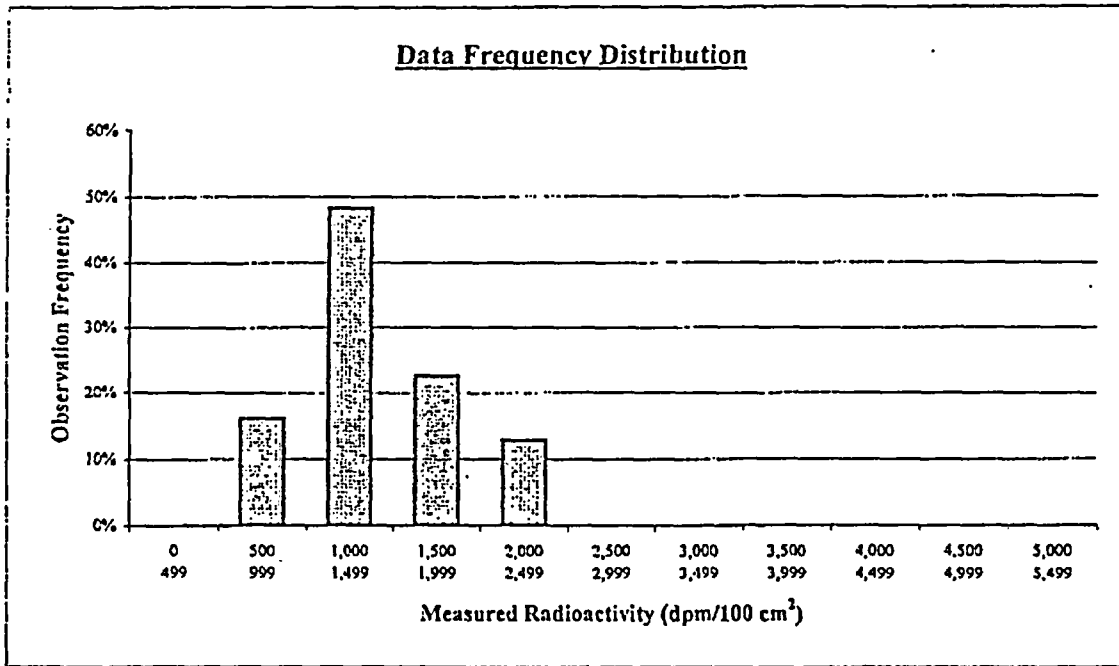
FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05077M
 Survey Unit Name: AB 77' Elevation - Filter Pit "C"

Classification: Class 1
 Size (m²): 36

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | | Statistical Quantities | |
|--|------------------|---------------------|-------------|------------------------|-------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? | Range: | 1,746 |
| Range | 1,746 | 2,056 | Pass | Median: | 1,458 |
| Median | 0.077 | 0.500 | Pass | Mean: | 1,426 |
| Mean | 1,426 | 6,000 | Pass | Std Dev: | 411 |
| Std Dev | 411 | 1,500 | Pass | Minimum: | 690 |
| All data less than DCGL; Sign statistical test not required. | | | | Maximum: | 2,436 |
| | | | | DCGL: | 7,500 |



| Plot Parameters | | Interval | High End | Low End | Number of Observations | Observation Frequency |
|---------------------|-------|----------|----------|---------|------------------------|-----------------------|
| # of measurements: | 31 | 1 | 499 | 0 | 0 | 0% |
| # of intervals: | 11 | 2 | 999 | 500 | 5 | 16% |
| Interval increment: | 500 | 3 | 1,499 | 1,000 | 15 | 48% |
| Minimum: | 0 | 4 | 1,999 | 1,500 | 7 | 23% |
| Maximum: | 5,499 | 5 | 2,499 | 2,000 | 4 | 13% |
| | | 6 | 2,999 | 2,500 | 0 | 0% |
| | | 7 | 3,499 | 3,000 | 0 | 0% |
| | | 8 | 3,999 | 3,500 | 0 | 0% |
| | | 9 | 4,499 | 4,000 | 0 | 0% |
| | | 10 | 4,999 | 4,500 | 0 | 0% |
| | | 11 | 5,499 | 5,000 | 0 | 0% |
| Total: | | | | | 31 | 100% |

Comment:
None.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05077M

Survey Unit Name: AB 77' Elevation – Filter Pit "C"

Classification: Class 1

Size (m²): 36

Judgmental and Miscellaneous Data

Measurement Type: Surface Scanning Beta

Measurement Units: dpm/100cm²

Minimum Value: 933

Scan Coverage (%): 100

Investigation Level: 7,500

Maximum Value: 14,010

Measurement Type: Removable Beta

Measurement Units: dpm/100cm²

Minimum Value: 28

Number of Measurements: 31

Investigation Level: 750

Maximum Value: 79

Discussion of Anomalous Measurement Data

Investigation Summary

Reason for Investigation: One scan measurement exceeded the investigation level.

Elevated Measurement Comparison (EMC):

| | |
|---|------------------------|
| DCGL (Investigation Level): | 7,500 |
| Measurement Units: | dpm/100cm ² |
| Maximum Value: | 14,010 |
| Size of Area Exceeding DCGL (m²): | 0.01 |
| Size of Survey Unit (m²): | 36 |
| Survey Unit Area >DCGL (%): | 0.02 |
| EMC Value: | 36,750 |

Action Taken: Applied EMC data processing to elevated result for scan location 002.

Basis for Action Taken: Two very small, localized areas of elevated radioactivity identified during scan surveys are less than 1 m².

FINAL SURVEY RESULTS SUMMARY

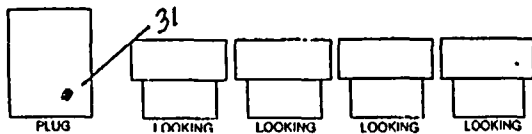
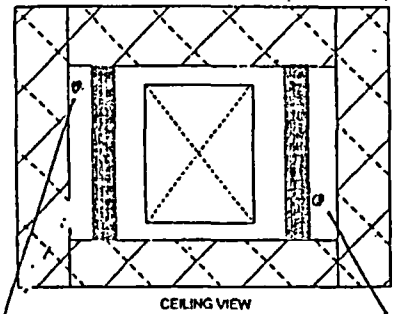
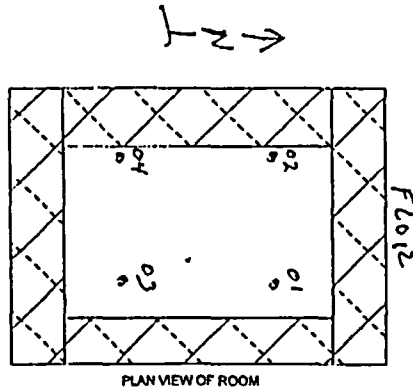
Survey Unit ID Code: S05077M

Survey Unit Name: AB 77' Elevation - Filter Pit "C"

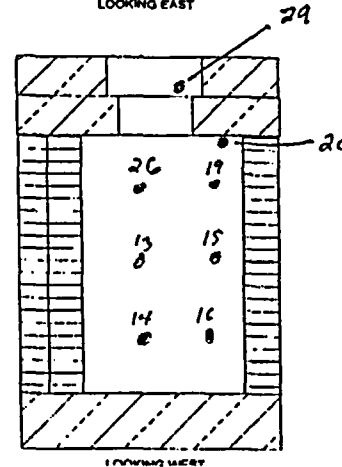
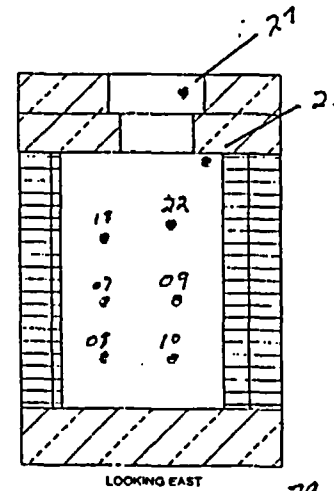
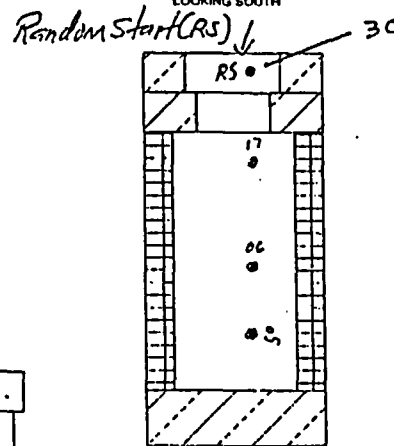
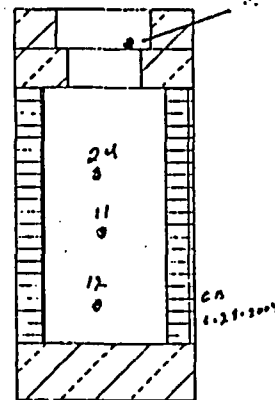
Classification: Class 1

Size (m²): 36

Static Measurement Location Map



FINAL SURVEY UNIT
S05077M
Static Measurement Locations
Filter Pit C



Data Collected IAW RP 452 Rev
 DAVID WAIDT *David Waidt* 6-30-04
 Survey Technician Date
 C. BRADLEY / S. BROWN 10-30-04

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05077Q

Classification: Class 1

Survey Unit Name: AB 77' Elevation - Filter Pit "F"

Size (m²): 36

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|--------------------------|---------------|-------------------------|------------|-----|-----|
| 1 | 33 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 6.916e+002
 Maximum Value : 2.475e+003
 Range : 1.783e+003
 Median : 1.386e+003
 Std. Deviation : 5.692e+002
 Mean : 1.385e+003
 95% UCL : 1.553e+003

Measurement Values

| Location | Value | Location | Value |
|----------|------------|----------|------------|
| 000001 | 2.148e+003 | 000018 | 1.959e+003 |
| 000002 | 2.268e+003 | 000019 | 7.634e+002 |
| 000003 | 2.179e+003 | 000020 | 8.655e+002 |
| 000004 | 2.223e+003 | 000021 | 8.655e+002 |
| 000005 | 2.419e+003 | 000022 | 9.070e+002 |
| 000006 | 2.009e+003 | 000023 | 6.916e+002 |
| 000007 | 1.631e+003 | 000024 | 8.579e+002 |
| 000008 | 1.657e+003 | 000025 | 8.617e+002 |
| 000009 | 1.455e+003 | 000026 | 8.239e+002 |
| 000010 | 1.468e+003 | 000027 | 7.559e+002 |
| 000011 | 1.543e+003 | 000028 | 8.125e+002 |
| 000012 | 1.568e+003 | 000029 | 8.503e+002 |
| 000013 | 1.531e+003 | 000030 | 8.050e+002 |
| 000014 | 1.342e+003 | 000031 | 1.100e+003 |
| 000015 | 2.475e+003 | 000032 | 1.107e+003 |
| 000016 | 1.631e+003 | 000033 | 7.521e+002 |
| 000017 | 1.386e+003 | | |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05077Q

Classification: Class 1

Survey Unit Name: AB 77' Elevation - Filter Pit "F"

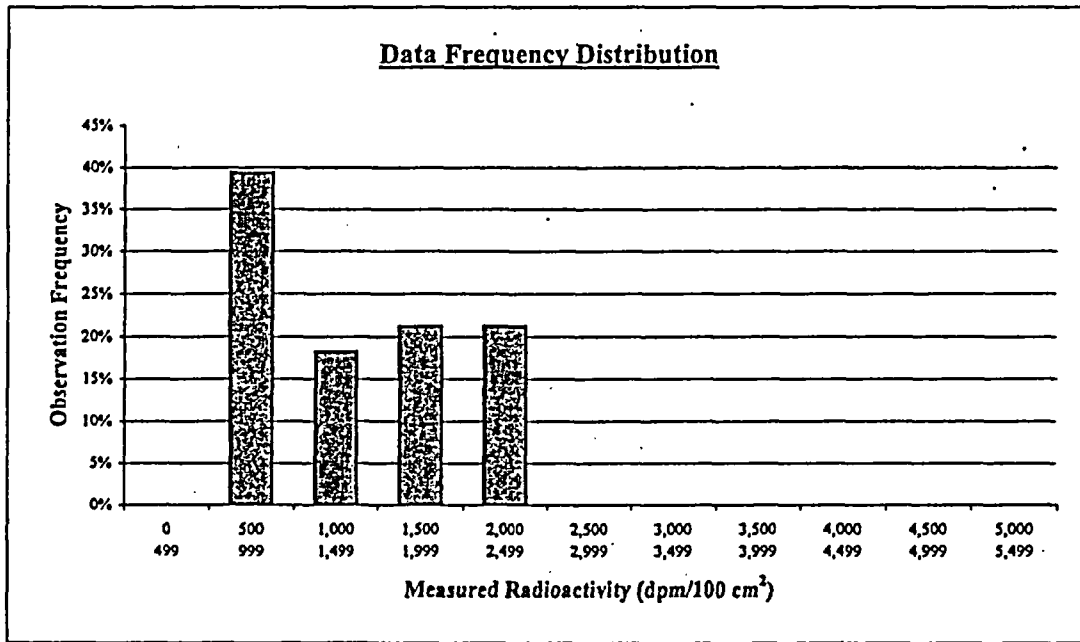
Size (m²): 36

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | |
|-------------------------|------------------|---------------------|-------------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? |
| Range | 1,783 | 2,846 | Pass |
| Median | 0.001 | 0.500 | Pass |
| Mean | 1,385 | 6,000 | Pass |
| Std Dev | 569 | 1,500 | Pass |

| Statistical Quantities | |
|------------------------|-------|
| Range: | 1,783 |
| Median: | 1,386 |
| Mean: | 1,385 |
| Std Dev: | 569 |
| Minimum: | 692 |
| Maximum: | 2,475 |
| DCGL: | 7,500 |

All data less than DCGL; Sign statistical test not required.



| Plot Parameters | |
|---------------------|-------|
| # of measurements: | 33 |
| # of intervals: | 11 |
| Interval increment: | 500 |
| Minimum: | 0 |
| Maximum: | 5,499 |

Comment:
None.

| Interval | High End | Low End | Number of Observations | Observation Frequency |
|----------|----------|---------|------------------------|-----------------------|
| 1 | 499 | 0 | 0 | 0% |
| 2 | 999 | 500 | 13 | 39% |
| 3 | 1,499 | 1,000 | 6 | 18% |
| 4 | 1,999 | 1,500 | 7 | 21% |
| 5 | 2,499 | 2,000 | 7 | 21% |
| 6 | 2,999 | 2,500 | 0 | 0% |
| 7 | 3,499 | 3,000 | 0 | 0% |
| 8 | 3,999 | 3,500 | 0 | 0% |
| 9 | 4,499 | 4,000 | 0 | 0% |
| 10 | 4,999 | 4,500 | 0 | 0% |
| 11 | 5,499 | 5,000 | 0 | 0% |
| Total: | | | 33 | 100% |

FINAL SURVEY RESULTS SUMMARY

| | |
|--|---------------------------------|
| Survey Unit ID Code: S05077Q | Classification: Class 1 |
| Survey Unit Name: AB 77' Elevation – Filter Pit "F" | Size (m²): 36 |

Judgmental and Miscellaneous Data

| | |
|--|-----------------------------------|
| Measurement Type: Surface Scanning Beta | Scan Coverage (%): 100 |
| Measurement Units: dpm/100cm ² | Investigation Level: 7,500 |
| Minimum Value: 970 | Maximum Value: 48,870 |

| | |
|--|-----------------------------------|
| Measurement Type: Removable Beta | Number of Measurements: 33 |
| Measurement Units: dpm/100cm ² | Investigation Level: 750 |
| Minimum Value: 46 | Maximum Value: 94 |

Discussion of Anomalous Measurement Data

Investigation Summary

Reason for Investigation: Two scan measurements exceeded the investigation level.

Elevated Measurement Comparison (EMC):

| | |
|---|------------------------|
| DCGL (Investigation Level): | 7,500 |
| Measurement Units: | dpm/100cm ² |
| Maximum Value: | 48,873 |
| Size of Area Exceeding DCGL (m²): | 0.08 |
| Size of Survey Unit (m²): | 36 |
| Survey Unit Area >DCGL (%): | 0.22 |
| EMC Value: | 49,500 |

Action Taken: Corrected measurement values for scan locations 017 & 018 per guidance in memo FS-018-03. Replaced original scan results in SDMS with the corrected results. Applied EMC data processing to elevated corrected results.

Basis for Action Taken: Technical basis memorandum FS-018-03 provides guidance for correcting SDMS determined scan results for locations that exceed the investigation level by subtracting instrument background from the field results.

FINAL SURVEY RESULTS SUMMARY

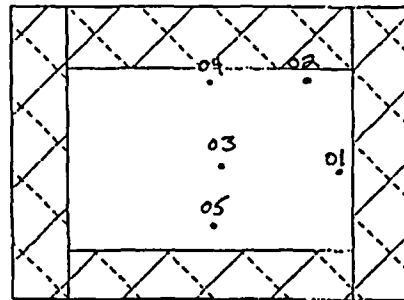
Survey Unit ID Code: S05077Q

Survey Unit Name: AB 77' Elevation - Filter Pit "F"

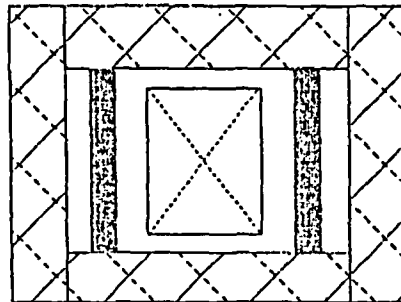
Classification: Class 1

Size (m²): 36

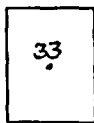
Static Measurement Location Map



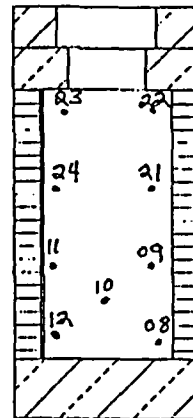
PLAN VIEW OF ROOM



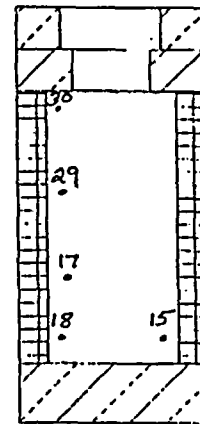
CEILING VIEW



FINAL SURVEY UNIT
S05077Q
Static Measurement Locations
Filter Pit F

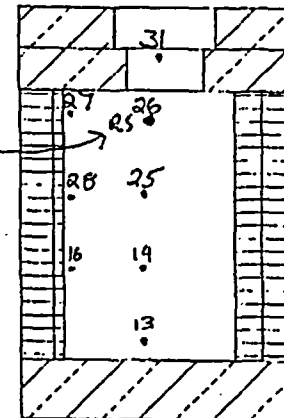


LOOKING SOUTH

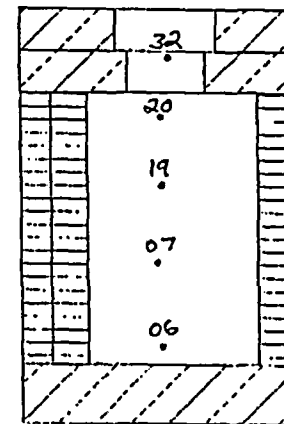


LOOKING NORTH

Random
Start
(RS)



LOOKING EAST



LOOKING WEST

Data Collected IAW RP 452 Rev. 9
 David M. ...
 Survey Technician
 Date 10/17/2004
 10/17/2004

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05077R

Classification: Class 1

Survey Unit Name: AB 77' Elevation - Filter Pit "G"

Size (m²): 36

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|-----------------------|------------|-------------------------|------------|-----|-----|
| 1 | 34 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 6.130e+002
 Maximum Value : 2.806e+003
 Range : 2.193e+003
 Median : 1.572e+003
 Std. Deviation : 6.102e+002
 Mean : 1.530e+003
 95% UCL : 1.707e+003

Measurement Values

| Location | Value | Location | Value |
|----------|------------|----------|------------|
| 000001 | 2.412e+003 | 000018 | 1.812e+003 |
| 000002 | 2.562e+003 | 000019 | 1.024e+003 |
| 000003 | 2.512e+003 | 000020 | 1.010e+003 |
| 000004 | 2.806e+003 | 000021 | 9.141e+002 |
| 000005 | 2.025e+003 | 000022 | 9.495e+002 |
| 000006 | 1.737e+003 | 000023 | 6.378e+002 |
| 000007 | 2.318e+003 | 000024 | 9.035e+002 |
| 000008 | 1.769e+003 | 000025 | 6.130e+002 |
| 000009 | 1.944e+003 | 000026 | 9.637e+002 |
| 000010 | 1.612e+003 | 000027 | 9.637e+002 |
| 000011 | 2.300e+003 | 000028 | 9.602e+002 |
| 000012 | 1.662e+003 | 000029 | 1.074e+003 |
| 000013 | 1.812e+003 | 000030 | 8.397e+002 |
| 000014 | 1.962e+003 | 000031 | 1.247e+003 |
| 000015 | 1.912e+003 | 000032 | 1.251e+003 |
| 000016 | 1.744e+003 | 000033 | 1.382e+003 |
| 000017 | 1.531e+003 | 000034 | 8.539e+002 |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05077R

Classification: Class 1

Survey Unit Name: AB 77' Elevation – Filter Pit "G"

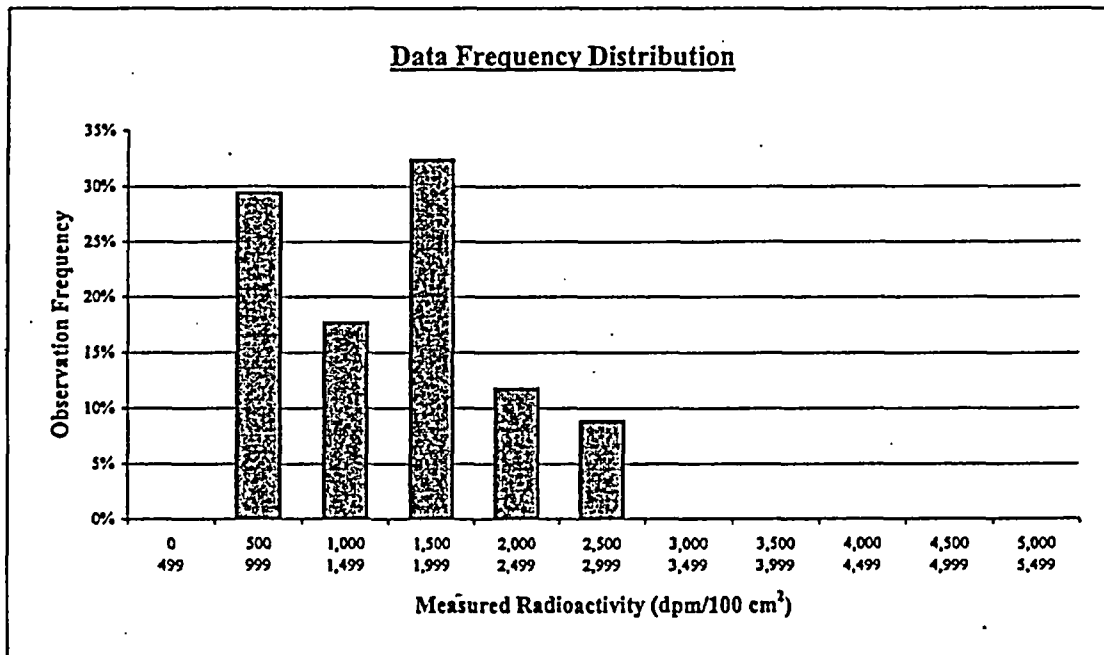
Size (m²): 36

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | |
|-------------------------|------------------|---------------------|-------------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? |
| Range | 2,193 | 3,051 | Pass |
| Median | 0.068 | 0.500 | Pass |
| Mean | 1,530 | 6,000 | Pass |
| Std Dev | 610 | 1,500 | Pass |

| Statistical Quantities | |
|------------------------|-------|
| Range: | 2,193 |
| Median: | 1,572 |
| Mean: | 1,530 |
| Std Dev: | 610 |
| Minimum: | 613 |
| Maximum: | 2,806 |
| DCGL: | 7,500 |

All data less than DCGL; Sign statistical test not required.



| Plot Parameters | |
|---------------------|-------|
| # of measurements: | 34 |
| # of intervals: | 11 |
| Interval increment: | 500 |
| Minimum: | 0 |
| Maximum: | 5,499 |

| Interval | High End | Low End | Number of Observations | Observation Frequency |
|----------|----------|---------|------------------------|-----------------------|
| 1 | 499 | 0 | 0 | 0% |
| 2 | 999 | 500 | 10 | 29% |
| 3 | 1,499 | 1,000 | 6 | 18% |
| 4 | 1,999 | 1,500 | 11 | 32% |
| 5 | 2,499 | 2,000 | 4 | 12% |
| 6 | 2,999 | 2,500 | 3 | 9% |
| 7 | 3,499 | 3,000 | 0 | 0% |
| 8 | 3,999 | 3,500 | 0 | 0% |
| 9 | 4,499 | 4,000 | 0 | 0% |
| 10 | 4,999 | 4,500 | 0 | 0% |
| 11 | 5,499 | 5,000 | 0 | 0% |
| Total: | | | 34 | 100% |

Comment:
None.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05077R

Classification: Class 1

Survey Unit Name: AB 77' Elevation – Filter Pit “G”

Size (m²): 36

Judgmental and Miscellaneous Data

Measurement Type: Surface Scanning Beta

Scan Coverage (%): 100

Measurement Units: dpm/100cm²

Investigation Level: 7,500

Minimum Value: 1,051

Maximum Value: 6,861

Measurement Type: Removable Beta

Number of Measurements: 34

Measurement Units: dpm/100cm²

Investigation Level: 750

Minimum Value: 46

Maximum Value: 89

Discussion of Anomalous Measurement Data

Investigation Summary

Reason for Investigation: Four scan measurements exceeded the investigation level.

Elevated Measurement Comparison (EMC):

| | |
|---|------------------------|
| DCGL (Investigation Level): | 7,500 |
| Measurement Units: | dpm/100cm ² |
| Maximum Value: | 9,475 |
| Size of Area Exceeding DCGL (m²): | N/A |
| Size of Survey Unit (m²): | N/A |
| Survey Unit Area >DCGL (%): | N/A |
| EMC Value: | N/A |

Action Taken: Corrected measurement values for scan location per guidance in memo FS-018-03. Replaced original scan result in SDMS with these results, all of which corrected to less than the investigation level.

Basis for Action Taken: Technical basis memorandum FS-018-03 provides guidance for correcting SDMS determined scan results for locations that exceed the investigation level by subtracting instrument background from the field results.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05077S

Classification: Class 1

Survey Unit Name: AB 77' Elevation - Filter Pit "H"

Size (m²): 36

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|-----------------------|------------|-------------------------|------------|-----|-----|
| 1 | 30 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 7.383e+002
 Maximum Value : 2.809e+003
 Range : 2.071e+003
 Median : 1.638e+003
 Std. Deviation : 5.570e+002
 Mean : 1.505e+003
 95% UCL : 1.677e+003

Measurement Values

| Location | Value | Location | Value |
|----------|------------|----------|------------|
| 000001 | 2.343e+003 | 000018 | 1.008e+003 |
| 000002 | 2.431e+003 | 000019 | 1.052e+003 |
| 000003 | 2.809e+003 | 000020 | 1.178e+003 |
| 000004 | 2.261e+003 | 000021 | 9.044e+002 |
| 000005 | 1.650e+003 | 000022 | 1.085e+003 |
| 000006 | 1.638e+003 | 000023 | 8.970e+002 |
| 000007 | 1.701e+003 | 000024 | 8.822e+002 |
| 000008 | 1.839e+003 | 000025 | 1.026e+003 |
| 000009 | 1.846e+003 | 000026 | 8.859e+002 |
| 000010 | 1.801e+003 | 000027 | 9.192e+002 |
| 000011 | 1.638e+003 | 000028 | 9.856e+002 |
| 000012 | 1.946e+003 | 000029 | 9.635e+002 |
| 000013 | 1.909e+003 | 000030 | 1.259e+003 |
| 000014 | 1.972e+003 | | |
| 000015 | 1.783e+003 | | |
| 000016 | 1.789e+003 | | |
| 000017 | 7.383e+002 | | |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05077S

Classification: Class 1

Survey Unit Name: AB 77' Elevation – Filter Pit "H"

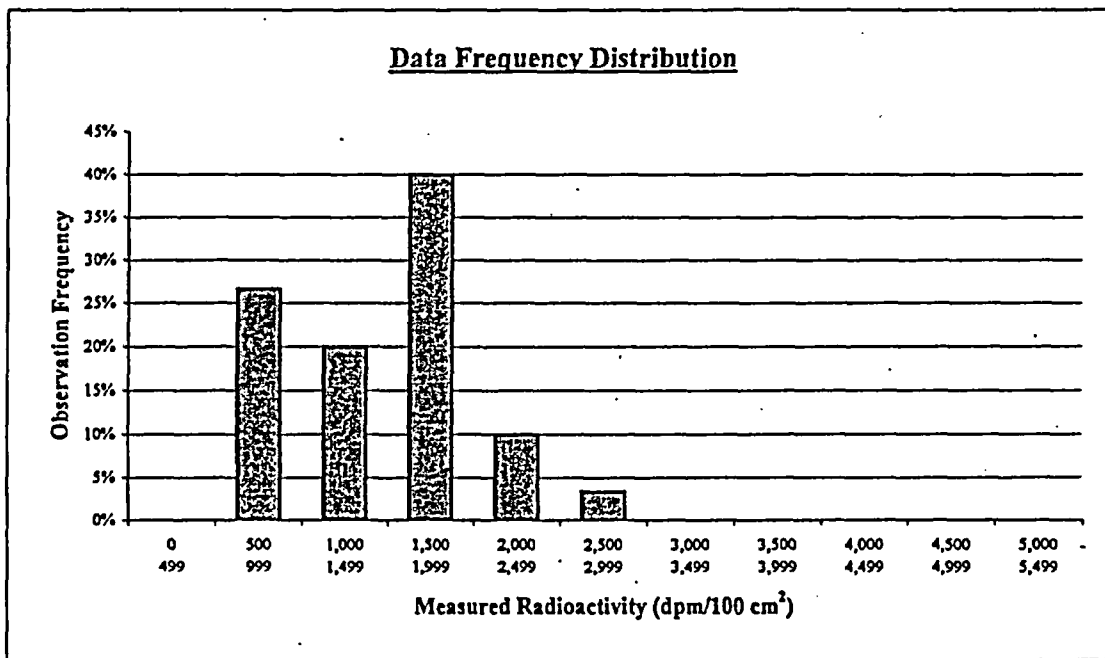
Size (m²): 36

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | |
|-------------------------|------------------|---------------------|-------------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? |
| Range | 2,071 | 2,785 | Pass |
| Median | 0.239 | 0.500 | Pass |
| Mean | 1,505 | 6,000 | Pass |
| Std Dev | 557 | 1,500 | Pass |

| Statistical Quantities | |
|------------------------|-------|
| Range: | 2,071 |
| Median: | 1,638 |
| Mean: | 1,505 |
| Std Dev: | 557 |
| Minimum: | 738 |
| Maximum: | 2,809 |
| DCGL: | 7,500 |

All data less than DCGL; Sign statistical test not required.



| Plot Parameters | |
|---------------------|-------|
| # of measurements: | 30 |
| # of intervals: | 11 |
| Interval increment: | 500 |
| Minimum: | 0 |
| Maximum: | 5,499 |

Comment:
None.

| Interval | High End | Low End | Number of Observations | Observation Frequency |
|----------|----------|---------|------------------------|-----------------------|
| 1 | 499 | 0 | 0 | 0% |
| 2 | 999 | 500 | 8 | 27% |
| 3 | 1,499 | 1,000 | 6 | 20% |
| 4 | 1,999 | 1,500 | 12 | 40% |
| 5 | 2,499 | 2,000 | 3 | 10% |
| 6 | 2,999 | 2,500 | 1 | 3% |
| 7 | 3,499 | 3,000 | 0 | 0% |
| 8 | 3,999 | 3,500 | 0 | 0% |
| 9 | 4,499 | 4,000 | 0 | 0% |
| 10 | 4,999 | 4,500 | 0 | 0% |
| 11 | 5,499 | 5,000 | 0 | 0% |
| Total: | | | 30 | 100% |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05077S

Classification: Class 1

Survey Unit Name: AB 77' Elevation – Filter Pit "H"

Size (m²): 36

Judgmental and Miscellaneous Data

Measurement Type: Surface Scanning Beta

Scan Coverage (%): 100

Measurement Units: dpm/100cm²

Investigation Level: 7,500

Minimum Value: 1,092

Maximum Value: 45,830

Measurement Type: Removable Beta

Number of Measurements: 30

Measurement Units: dpm/100cm²

Investigation Level: 750

Minimum Value: 53

Maximum Value: 104

Discussion of Anomalous Measurement Data

Investigation Summary

Reason for Investigation: Nine scan measurements exceeded the investigation level.

Elevated Measurement Comparison (EMC):

| | |
|---|------------------------|
| DCGL (Investigation Level): | 7,500 |
| Measurement Units: | dpm/100cm ² |
| Maximum Value: | 45,831 |
| Size of Area Exceeding DCGL (m²): | 0.23 |
| Size of Survey Unit (m²): | 36 |
| Survey Unit Area >DCGL (%): | 0.63 |
| EMC Value: | 46,500 |

Action Taken: Corrected measurement values for scan locations per guidance in memo FS-018-03; used similar method for measurements obtained with a 43-68 gas flow proportional detector. Replaced original scan results in SDMS with the corrected results. Applied EMC data processing to scan locations 033, 034, 035, 036, 038, & 039 remain elevated.

Basis for Action Taken: Technical basis memorandum FS-018-03 provides guidance for correcting SDMS determined scan results for locations that exceed the investigation level by subtracting instrument background from the field results.

FINAL SURVEY RESULTS SUMMARY

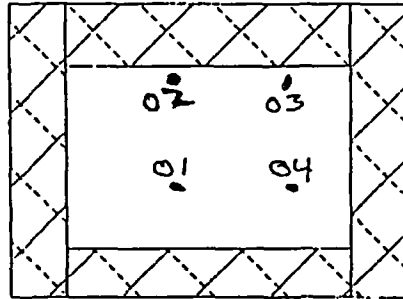
Survey Unit ID Code: S05077S

Survey Unit Name: AB 77' Elevation - Filter Pit "H"

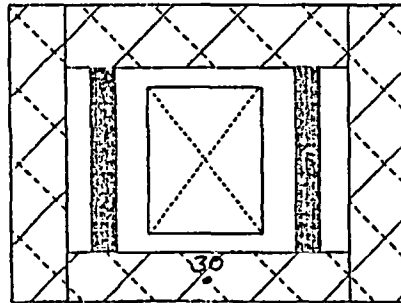
Classification: Class 1

Size (m²): 36

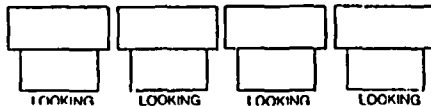
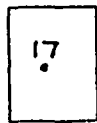
Static Measurement Location Map



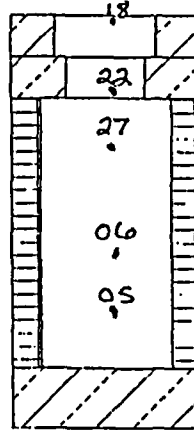
PLAN VIEW OF ROOM



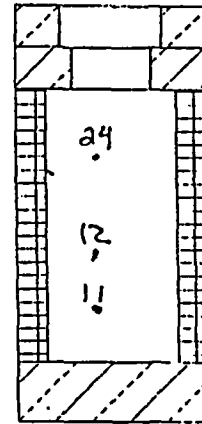
CEILING VIEW



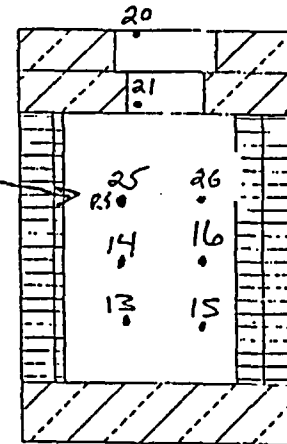
FINAL SURVEY UNIT
S05077S
Static Measurement Locations
Filter Pit H



LOOKING SOUTH

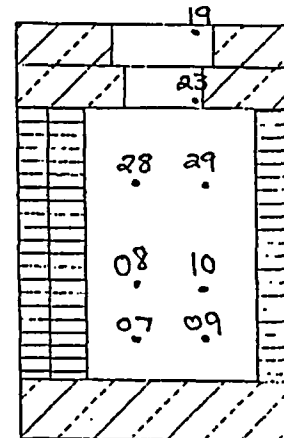


LOOKING NORTH



LOOKING EAST

Random Start (RS)



LOOKING WEST

Data Collected IAW RP 452 Rev. 9
 M. Anderson Survey Technician
 Date: 11/16/2004
 Sample No. 11-AB-11-2004

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05077T

Classification: Class 1

Survey Unit Name: AB 77' Elevation - Filter Pit "I"

Size (m²): 36

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|-----------------------|------------|-------------------------|------------|-----|-----|
| 1 | 35 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 7.937e+002
 Maximum Value : 2.927e+003
 Range : 2.133e+003
 Median : 1.686e+003
 Std. Deviation : 5.758e+002
 Mean : 1.606e+003
 95% UCL : 1.771e+003

Measurement Values

| Location | Value | Location | Value | Location | Value |
|----------|------------|----------|------------|----------|------------|
| 000001 | 2.338e+003 | 000018 | 1.809e+003 | 000035 | 2.927e+003 |
| 000002 | 2.362e+003 | 000019 | 1.821e+003 | | |
| 000003 | 2.147e+003 | 000020 | 2.006e+003 | | |
| 000004 | 2.190e+003 | 000021 | 9.450e+002 | | |
| 000005 | 2.319e+003 | 000022 | 1.104e+003 | | |
| 000006 | 2.215e+003 | 000023 | 1.041e+003 | | |
| 000007 | 1.673e+003 | 000024 | 7.937e+002 | | |
| 000008 | 1.766e+003 | 000025 | 9.192e+002 | | |
| 000009 | 2.270e+003 | 000026 | 9.376e+002 | | |
| 000010 | 1.673e+003 | 000027 | 1.004e+003 | | |
| 000011 | 1.593e+003 | 000028 | 1.089e+003 | | |
| 000012 | 2.332e+003 | 000029 | 1.034e+003 | | |
| 000013 | 1.692e+003 | 000030 | 1.048e+003 | | |
| 000014 | 1.729e+003 | 000031 | 9.598e+002 | | |
| 000015 | 1.686e+003 | 000032 | 1.004e+003 | | |
| 000016 | 1.876e+003 | 000033 | 9.745e+002 | | |
| 000017 | 1.963e+003 | 000034 | 9.782e+002 | | |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05077T

Classification: Class 1

Survey Unit Name: AB 77' Elevation - Filter Pit "I"

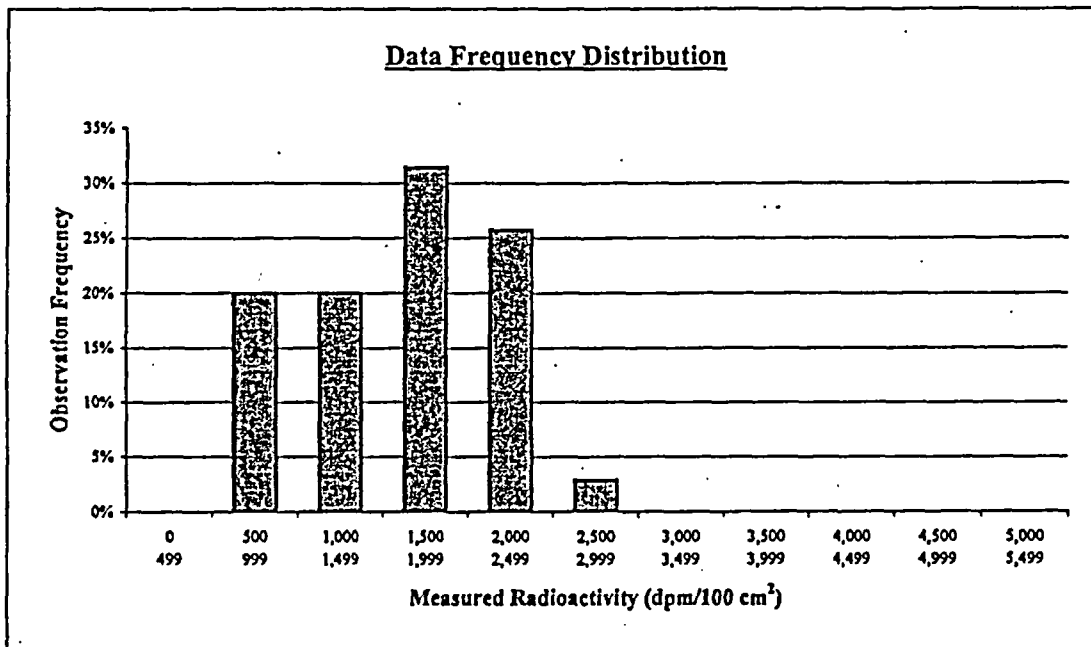
Size (m²): 36

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | |
|-------------------------|------------------|---------------------|-------------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? |
| Range | 2,133 | 2,879 | Pass |
| Median | 0.138 | 0.500 | Pass |
| Mean | 1,606 | 6,000 | Pass |
| Std Dev | 576 | 1,500 | Pass |

| Statistical Quantities | |
|------------------------|-------|
| Range: | 2,133 |
| Median: | 1,686 |
| Mean: | 1,606 |
| Std Dev: | 576 |
| Minimum: | 794 |
| Maximum: | 2,927 |
| DCGL: | 7,500 |

All data less than DCGL; Sign statistical test not required.



| Plot Parameters | |
|---------------------|-------|
| # of measurements: | 35 |
| # of intervals: | 11 |
| Interval increment: | 500 |
| Minimum: | 0 |
| Maximum: | 5,499 |

Comment:
None.

| Interval | High End | Low End | Number of Observations | Observation Frequency |
|----------|----------|---------|------------------------|-----------------------|
| 1 | 499 | 0 | 0 | 0% |
| 2 | 999 | 500 | 7 | 20% |
| 3 | 1,499 | 1,000 | 7 | 20% |
| 4 | 1,999 | 1,500 | 11 | 31% |
| 5 | 2,499 | 2,000 | 9 | 26% |
| 6 | 2,999 | 2,500 | 1 | 3% |
| 7 | 3,499 | 3,000 | 0 | 0% |
| 8 | 3,999 | 3,500 | 0 | 0% |
| 9 | 4,499 | 4,000 | 0 | 0% |
| 10 | 4,999 | 4,500 | 0 | 0% |
| 11 | 5,499 | 5,000 | 0 | 0% |
| Total: | | | 35 | 100% |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05077T

Classification: Class 1

Survey Unit Name: AB 77' Elevation – Filter Pit "T"

Size (m²): 36

Judgmental and Miscellaneous Data

Measurement Type: Surface Scanning Beta

Scan Coverage (%): 100

Measurement Units: dpm/100cm²

Investigation Level: 7,500

Minimum Value: 971

Maximum Value: 16,090

Measurement Type: Removable Beta

Number of Measurements: 35

Measurement Units: dpm/100cm²

Investigation Level: 750

Minimum Value: 49

Maximum Value: 114

Discussion of Anomalous Measurement Data

Investigation Summary

Reason for Investigation: Five scan measurements exceeded the investigation level.

Elevated Measurement Comparison (EMC):

| | |
|---|------------------------|
| DCGL (Investigation Level): | 7,500 |
| Measurement Units: | dpm/100cm ² |
| Maximum Value: | 18,690 |
| Size of Area Exceeding DCGL (m²): | 0.02 |
| Size of Survey Unit (m²): | 36 |
| Survey Unit Area >DCGL (%): | 0.06 |
| EMC Value: | 36,750 |

Action Taken: Corrected measurement values for scan locations per guidance in memo FS-018-03; used similar method for measurements obtained with a 43-68 gas flow proportional detector. Replaced original scan results in SDMS with the corrected results. Applied EMC data processing to corrected results for scan location 031 that remains elevated.

Basis for Action Taken: Technical basis memorandum FS-018-03 provides guidance for correcting SDMS determined scan results for locations that exceed the investigation level by subtracting instrument background from the field results.

FINAL SURVEY RESULTS SUMMARY

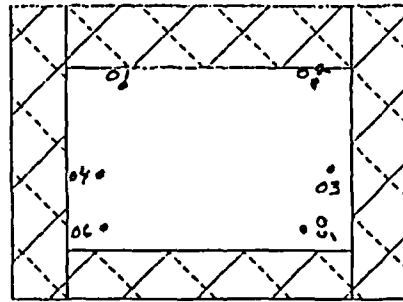
Survey Unit ID Code: S05077T

Survey Unit Name: AB 77' Elevation - Filter Pit "I"

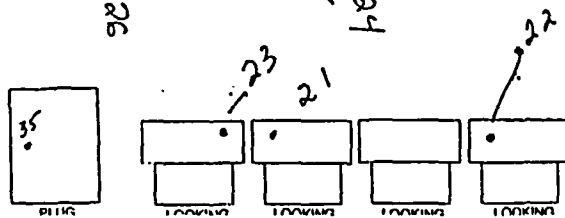
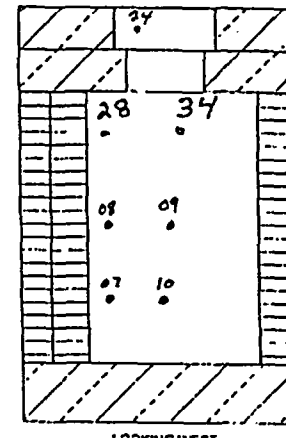
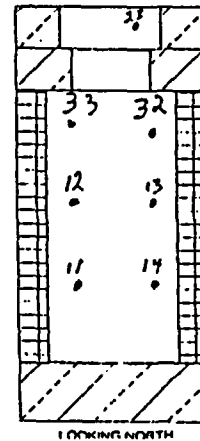
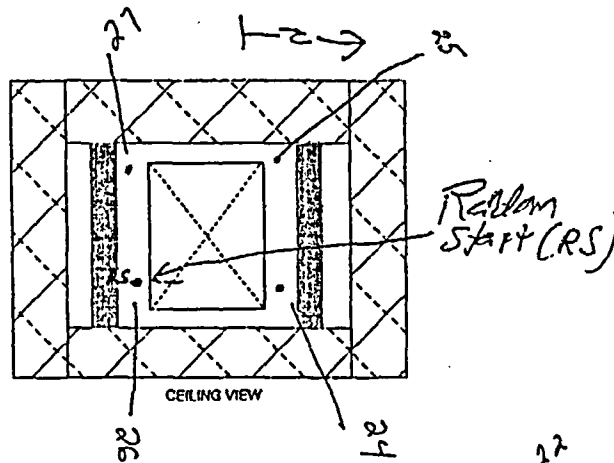
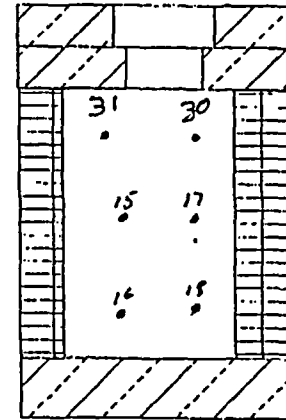
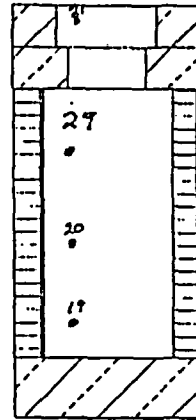
Classification: Class 1

Size (m²): 36

Static Measurement Location Map



FINAL SURVEY UNIT
S05077T
Static Measurement Locations
Filter Pit I



Data Collected IAW RP 452 Rev. _____
G. Bradley / B. Brown / 10.28.2004
Survey Technician Date
Trojan IAW 10.28.2004

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05077U

Classification: Class 1

Survey Unit Name: AB 77' Elevation - Filter Pit "J"

Size (m²): 36

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|--------------------------|---------------|-------------------------|------------|-----|-----|
| 1 | 31 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 7.115e+002
 Maximum Value : 2.127e+003
 Range : 1.416e+003
 Median : 1.239e+003
 Std. Deviation : 4.239e+002
 Mean : 1.288e+003
 95% UCL : 1.417e+003

Measurement Values

| Location | Value | Location | Value |
|----------|------------|----------|------------|
| 000001 | 1.900e+003 | 000018 | 8.679e+002 |
| 000002 | 1.997e+003 | 000019 | 9.735e+002 |
| 000003 | 2.127e+003 | 000020 | 9.383e+002 |
| 000004 | 1.275e+003 | 000021 | 1.095e+003 |
| 000005 | 1.756e+003 | 000022 | 8.327e+002 |
| 000006 | 1.457e+003 | 000023 | 1.001e+003 |
| 000007 | 1.835e+003 | 000024 | 9.579e+002 |
| 000008 | 1.626e+003 | 000025 | 8.367e+002 |
| 000009 | 1.900e+003 | 000026 | 8.797e+002 |
| 000010 | 1.490e+003 | 000027 | 9.344e+002 |
| 000011 | 1.848e+003 | 000028 | 9.774e+002 |
| 000012 | 1.353e+003 | 000029 | 1.435e+003 |
| 000013 | 1.665e+003 | 000030 | 1.302e+003 |
| 000014 | 7.389e+002 | 000031 | 1.239e+003 |
| 000015 | 7.115e+002 | | |
| 000016 | 9.500e+002 | | |
| 000017 | 1.013e+003 | | |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05077U

Classification: Class 1

Survey Unit Name: AB 77' Elevation - Filter Pit "J"

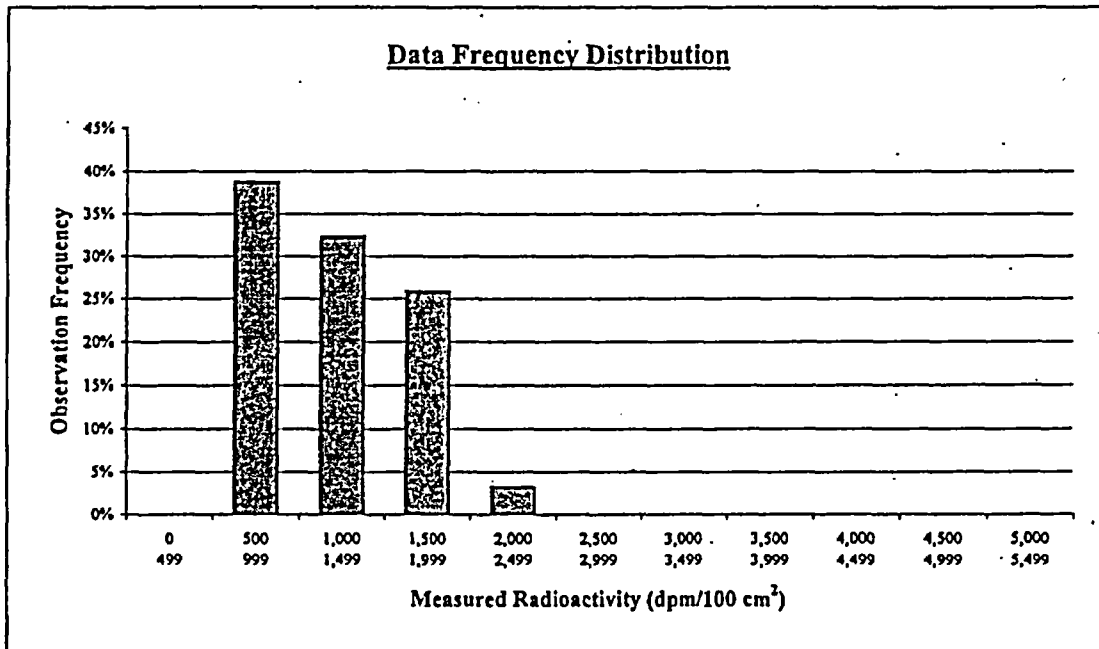
Size (m²): 36

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | |
|-------------------------|------------------|---------------------|-------------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? |
| Range | 1,415 | 2,119 | Pass |
| Median | 0.115 | 0.500 | Pass |
| Mean | 1,288 | 6,000 | Pass |
| Std Dev | 424 | 1,500 | Pass |

| Statistical Quantities | |
|------------------------|-------|
| Range: | 1,415 |
| Median: | 1,239 |
| Mean: | 1,288 |
| Std Dev: | 424 |
| Minimum: | 712 |
| Maximum: | 2,127 |
| DCGL: | 7,500 |

All data less than DCGL; Sign statistical test not required.



| Plot Parameters | |
|---------------------|-------|
| # of measurements: | 31 |
| # of intervals: | 11 |
| Interval increment: | 500 |
| Minimum: | 0 |
| Maximum: | 5,499 |

Comment:
None.

| Interval | High End | Low End | Number of Observations | Observation Frequency |
|----------|----------|---------|------------------------|-----------------------|
| 1 | 499 | 0 | 0 | 0% |
| 2 | 999 | 500 | 12 | 39% |
| 3 | 1,499 | 1,000 | 10 | 32% |
| 4 | 1,999 | 1,500 | 8 | 26% |
| 5 | 2,499 | 2,000 | 1 | 3% |
| 6 | 2,999 | 2,500 | 0 | 0% |
| 7 | 3,499 | 3,000 | 0 | 0% |
| 8 | 3,999 | 3,500 | 0 | 0% |
| 9 | 4,499 | 4,000 | 0 | 0% |
| 10 | 4,999 | 4,500 | 0 | 0% |
| 11 | 5,499 | 5,000 | 0 | 0% |
| Total: | | | 31 | 100% |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05077U

Classification: Class 1

Survey Unit Name: AB 77' Elevation – Filter Pit “J”

Size (m²): 36

Judgmental and Miscellaneous Data

Measurement Type: Surface Scanning Beta

Scan Coverage (%): 100

Measurement Units: dpm/100cm²

Investigation Level: 7,500

Minimum Value: 1,005

Maximum Value: 8,506

Measurement Type: Removable Beta

Number of Measurements: 31

Measurement Units: dpm/100cm²

Investigation Level: 750

Minimum Value: 42

Maximum Value: 85

Discussion of Anomalous Measurement Data

Investigation Summary

Reason for Investigation: Five scan measurements exceeded the investigation level.

Elevated Measurement Comparison (EMC):

| | |
|---|------------------------|
| DCGL (Investigation Level): | 7,500 |
| Measurement Units: | dpm/100cm ² |
| Maximum Value: | 45,230 |
| Size of Area Exceeding DCGL (m²): | 0.013 |
| Size of Survey Unit (m²): | 36 |
| Survey Unit Area >DCGL (%): | 0.035 |
| EMC Value: | 36,750 |

Action Taken: Corrected measurement values for scan locations per guidance in memo FS-018-03. Replaced original scan results in SDMS with the corrected results. Applied EMC data processing to corrected results for scan location 032 that remains elevated.

Basis for Action Taken: Technical basis memorandum FS-018-03 provides guidance for correcting SDMS determined scan results for locations that exceed the investigation level by subtracting instrument background from the field results.

FINAL SURVEY RESULTS SUMMARY

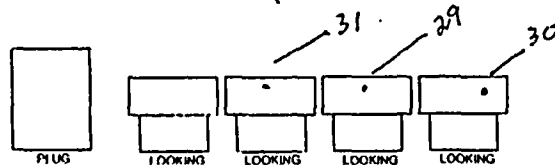
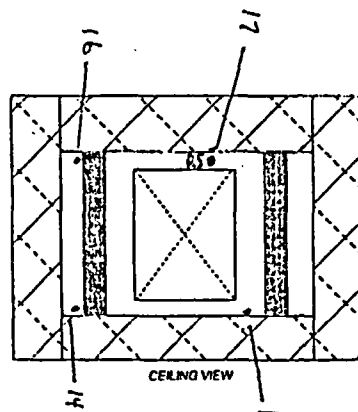
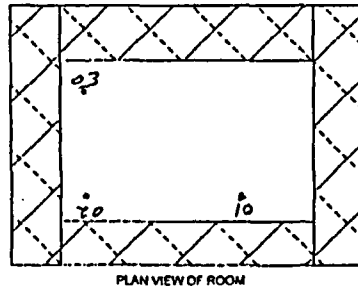
Survey Unit ID Code: S05077U

Survey Unit Name: AB 77' Elevation - Filter Pit "J"

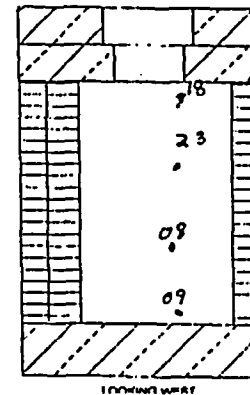
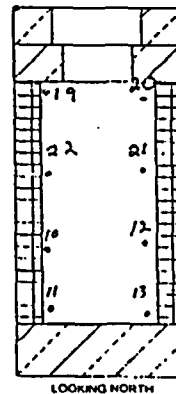
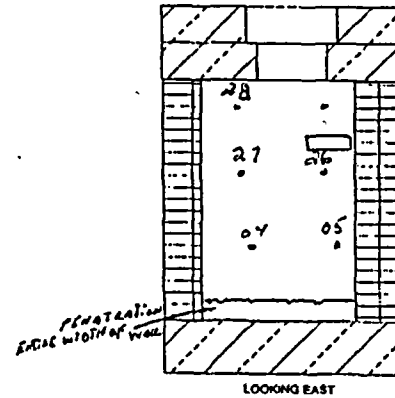
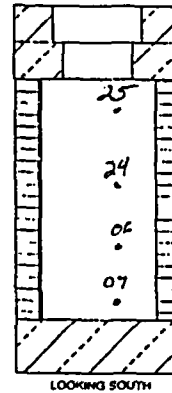
Classification: Class 1

Size (m²): 36

Static Measurement Location Map



FINAL SURVEY UNIT
S05077U
Static Measurement Locations
Filter Pit J



Date Collected IAW RP 452 Rev. _____
David M. Davis
 Survey Technician
 Date
S. E. Miller, G. B. RAYLEY 7-13-2004

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05077V

Classification: Class 1

Survey Unit Name: AB 77' Elevation - Filter Pit "K"

Size (m²): 36

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|-----------------------|------------|-------------------------|------------|-----|-----|
| 1 | 33 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 6.725e+002
 Maximum Value : 4.979e+003
 Range : 4.307e+003
 Median : 1.386e+003
 Std. Deviation : 7.856e+002
 Mean : 1.466e+003
 95% UCL : 1.697e+003

Measurement Values

| Location | Value | Location | Value |
|----------|------------|----------|------------|
| 000001 | 2.088e+003 | 000018 | 7.624e+002 |
| 000002 | 2.296e+003 | 000019 | 9.148e+002 |
| 000003 | 2.023e+003 | 000020 | 8.992e+002 |
| 000004 | 1.815e+003 | 000021 | 9.735e+002 |
| 000005 | 1.386e+003 | 000022 | 9.696e+002 |
| 000006 | 1.665e+003 | 000023 | 9.188e+002 |
| 000007 | 1.431e+003 | 000024 | 8.171e+002 |
| 000008 | 1.379e+003 | 000025 | 9.148e+002 |
| 000009 | 1.301e+003 | 000026 | 1.748e+003 |
| 000010 | 1.646e+003 | 000027 | 6.725e+002 |
| 000011 | 1.626e+003 | 000028 | 8.054e+002 |
| 000012 | 1.763e+003 | 000029 | 8.093e+002 |
| 000013 | 1.574e+003 | 000030 | 1.419e+003 |
| 000014 | 1.776e+003 | 000031 | 1.646e+003 |
| 000015 | 1.288e+003 | 000032 | 2.264e+003 |
| 000016 | 4.979e+003 | 000033 | 8.484e+002 |
| 000017 | 9.461e+002 | | |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05077V

Classification: Class 1

Survey Unit Name: AB 77' Elevation – Filter Pit "K"

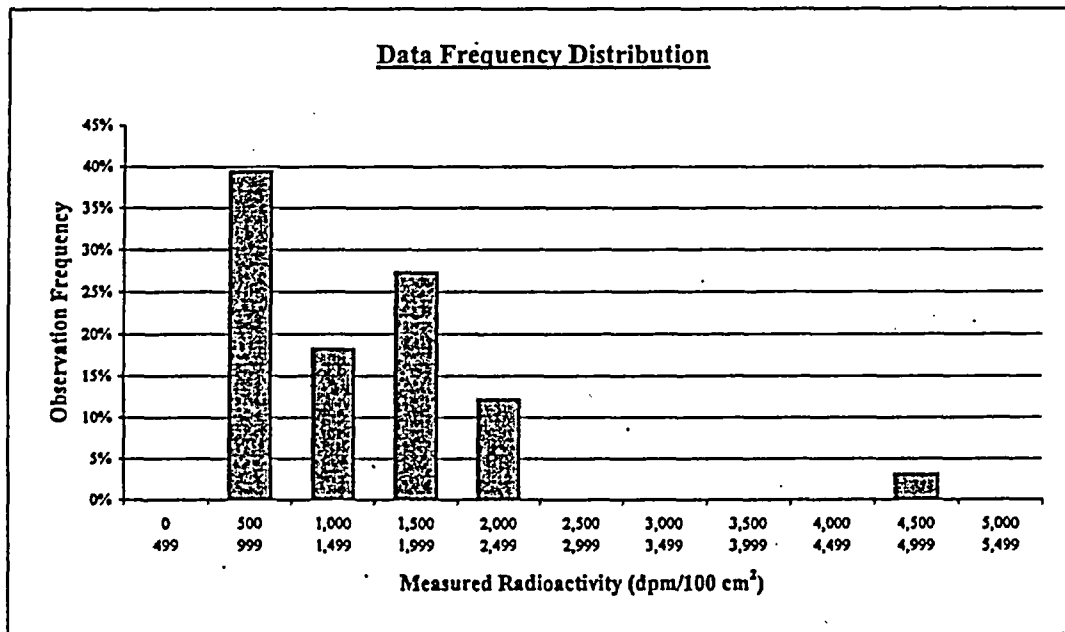
Size (m²): 36

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | |
|-------------------------|------------------|---------------------|-------------------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? |
| Range | 4,306 | 3,928 | See comment below |
| Median | 0.101 | 0.500 | Pass |
| Mean | 1,466 | 6,000 | Pass |
| Std Dev | 786 | 1,500 | Pass |

| Statistical Quantities | |
|------------------------|-------|
| Range: | 4,306 |
| Median: | 1,386 |
| Mean: | 1,466 |
| Std Dev: | 786 |
| Minimum: | 673 |
| Maximum: | 4,979 |
| DCGL: | 7,500 |

All data less than DCGL; Sign statistical test not required.



| Plot Parameters | Interval | High End | Low End | Number of Observations | Observation Frequency |
|-------------------------|---------------|----------|---------|------------------------|-----------------------|
| # of measurements: 33 | 1 | 499 | 0 | 0 | 0% |
| # of intervals: 11 | 2 | 999 | 500 | 13 | 39% |
| Interval increment: 500 | 3 | 1,499 | 1,000 | 6 | 18% |
| Minimum: 0 | 4 | 1,999 | 1,500 | 9 | 27% |
| Maximum: 5,499 | 5 | 2,499 | 2,000 | 4 | 12% |
| | 6 | 2,999 | 2,500 | 0 | 0% |
| | 7 | 3,499 | 3,000 | 0 | 0% |
| | 8 | 3,999 | 3,500 | 0 | 0% |
| | 9 | 4,499 | 4,000 | 0 | 0% |
| | 10 | 4,999 | 4,500 | 1 | 3% |
| | 11 | 5,499 | 5,000 | 0 | 0% |
| | Total: | | | 33 | 100% |

Comment:

Range failure is a test artifact due to a single measurement value of 4979 dpm, while the other 32 measurements are all less than 2500 dpm. The 4979 dpm measurement value was obtained with a Model 44-9 GM detector, while the other measurements were obtained with a Model 43-68 GFP detector. The 4979 dpm result includes survey instrument background of about 2600 dpm. All measurement values are valid and accepted.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05077V

Classification: Class 1

Survey Unit Name: AB 77' Elevation – Filter Pit “K”

Size (m²): 36

Judgmental and Miscellaneous Data

Measurement Type: Surface Scanning Beta

Scan Coverage (%): 100

Measurement Units: dpm/100cm²

Investigation Level: 7,500

Minimum Value: 888

Maximum Value: 7,219

Measurement Type: Removable Beta

Number of Measurements: 33

Measurement Units: dpm/100cm²

Investigation Level: 750

Minimum Value: 42

Maximum Value: 85

Discussion of Anomalous Measurement Data

Investigation Summary

Reason for Investigation: Six scan measurements exceeded the investigation level.

Elevated Measurement Comparison (EMC):

| | |
|---|------------------------|
| DCGL (Investigation Level): | 7,500 |
| Measurement Units: | dpm/100cm ² |
| Maximum Value: | 15,170 |
| Size of Area Exceeding DCGL (m²): | N/A |
| Size of Survey Unit (m²): | N/A |
| Survey Unit Area >DCGL (%): | N/A |
| EMC Value: | N/A |

Action Taken: Corrected measurement values for scan locations per guidance in memo FS-018-03; used similar method for measurements obtained with a 43-68 gas flow proportional detector. Replaced original scan results in SDMS with these results, all of which corrected to less than the investigation level.

Basis for Action Taken: Technical basis memorandum FS-018-03 provides guidance for correcting SDMS determined scan results for locations that exceed the investigation level by subtracting instrument background from the field results.

FINAL SURVEY RESULTS SUMMARY

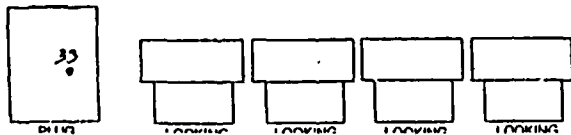
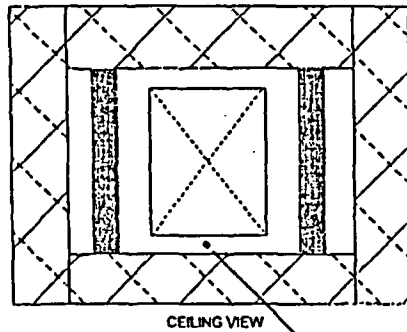
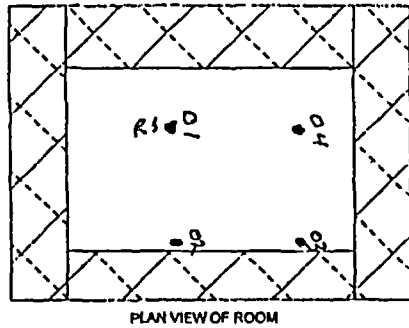
Survey Unit ID Code: S05077V

Survey Unit Name: AB 77' Elevation - Filter Pit "K"

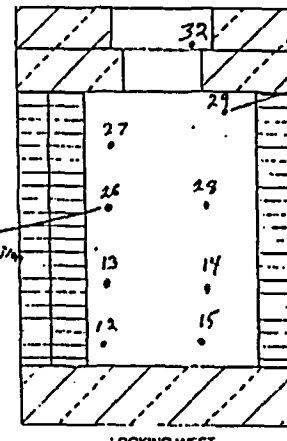
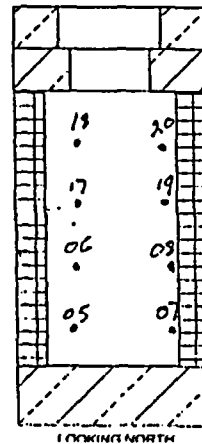
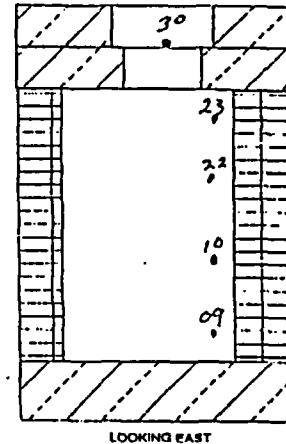
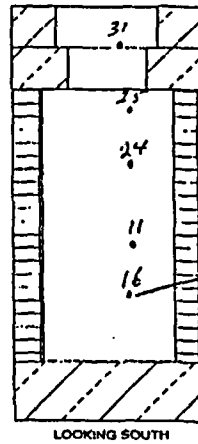
Classification: Class 1

Size (m²): 36

Static Measurement Location Map



FINAL SURVEY UNIT
S05077V
Static Measurement Locations
Filter Pit K



INSIDE PENETRATION

INSIDE PENETRATION

ON LEAK

Data Collected: LAW RP 452 Rev.
G. Bradley D. Bray
Survey Technician
Date: 17-14-2004
D. Waida
Dr. Waida 17-14-2004

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05077W

Classification: Class 1

Survey Unit Name: AB 77' Elevation - Filter Pit "L"

Size (m²): 36

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|-----------------------|------------|-------------------------|------------|-----|-----|
| 1 | 33 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 1.220e+003
 Maximum Value : 3.142e+003
 Range : 1.922e+003
 Median : 1.939e+003
 Std. Deviation : 4.577e+002
 Mean : 1.876e+003
 95% UCL : 2.011e+003

Measurement Values

| Location | Value | Location | Value |
|----------|------------|----------|------------|
| 000001 | 3.142e+003 | 000018 | 1.687e+003 |
| 000002 | 1.939e+003 | 000019 | 1.507e+003 |
| 000003 | 2.205e+003 | 000020 | 1.474e+003 |
| 000004 | 2.140e+003 | 000021 | 1.441e+003 |
| 000005 | 1.932e+003 | 000022 | 1.247e+003 |
| 000006 | 2.121e+003 | 000023 | 1.414e+003 |
| 000007 | 1.685e+003 | 000024 | 1.414e+003 |
| 000008 | 2.101e+003 | 000025 | 1.594e+003 |
| 000009 | 1.724e+003 | 000026 | 1.220e+003 |
| 000010 | 2.056e+003 | 000027 | 1.554e+003 |
| 000011 | 1.984e+003 | 000028 | 2.194e+003 |
| 000012 | 1.991e+003 | 000029 | 2.047e+003 |
| 000013 | 2.010e+003 | 000030 | 2.961e+003 |
| 000014 | 1.427e+003 | 000031 | 2.674e+003 |
| 000015 | 2.041e+003 | 000032 | 2.081e+003 |
| 000016 | 1.294e+003 | 000033 | 2.074e+003 |
| 000017 | 1.534e+003 | | |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05077W

Classification: Class 1

Survey Unit Name: AB 77' Elevation – Filter Pit "L"

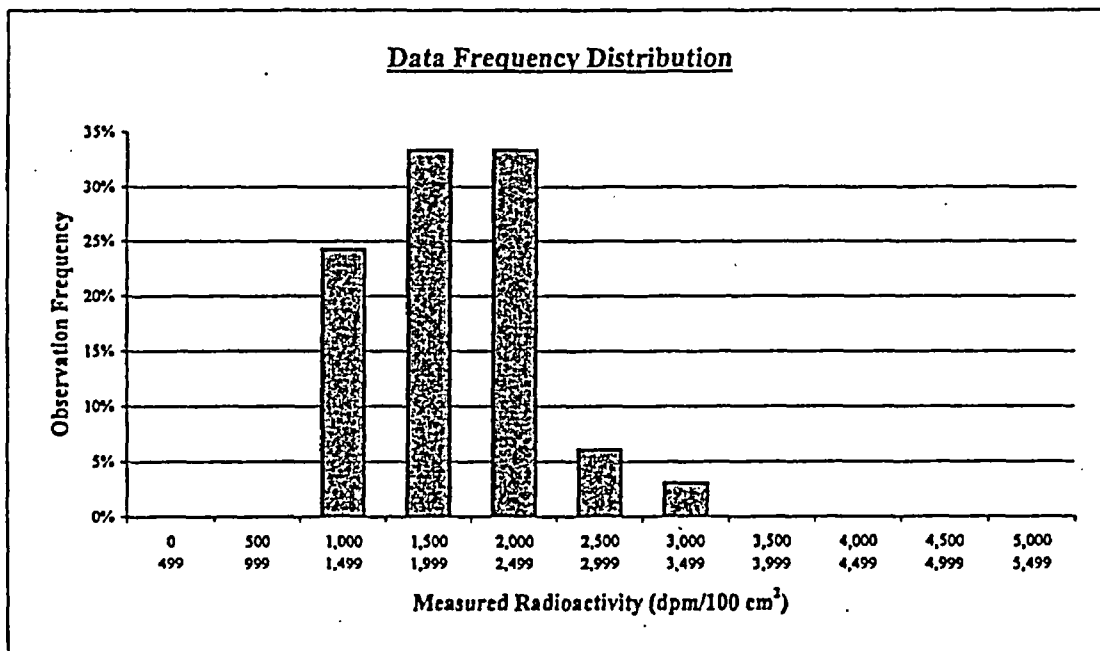
Size (m²): 36

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | |
|-------------------------|------------------|---------------------|-------------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? |
| Range | 1,922 | 2,288 | Pass |
| Median | 0.138 | 0.500 | Pass |
| Mean | 1,876 | 6,000 | Pass |
| Std Dev | 458 | 1,500 | Pass |

| Statistical Quantities | |
|------------------------|-------|
| Range: | 1,922 |
| Median: | 1,939 |
| Mean: | 1,876 |
| Std Dev: | 458 |
| Minimum: | 1,220 |
| Maximum: | 3,142 |
| DCGL: | 7,500 |

All data less than DCGL; Sign statistical test not required.



| Plot Parameters | |
|---------------------|-------|
| # of measurements: | 33 |
| # of intervals: | 11 |
| Interval increment: | 500 |
| Minimum: | 0 |
| Maximum: | 5,499 |

| Interval | High End | Low End | Number of Observations | Observation Frequency |
|----------|----------|---------|------------------------|-----------------------|
| 1 | 499 | 0 | 0 | 0% |
| 2 | 999 | 500 | 0 | 0% |
| 3 | 1,499 | 1,000 | 8 | 24% |
| 4 | 1,999 | 1,500 | 11 | 33% |
| 5 | 2,499 | 2,000 | 11 | 33% |
| 6 | 2,999 | 2,500 | 2 | 6% |
| 7 | 3,499 | 3,000 | 1 | 3% |
| 8 | 3,999 | 3,500 | 0 | 0% |
| 9 | 4,499 | 4,000 | 0 | 0% |
| 10 | 4,999 | 4,500 | 0 | 0% |
| 11 | 5,499 | 5,000 | 0 | 0% |
| Total: | | | 33 | 100% |

Comment:
NONE

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05077W

Survey Unit Name: AB 77' Elevation – Filter Pit "L"

Classification: Class 1

Size (m²): 36

Judgmental and Miscellaneous Data

Measurement Type: Surface Scanning Beta

Measurement Units: dpm/100cm²

Minimum Value: 1,061

Scan Coverage (%): 100

Investigation Level: 7,500

Maximum Value: 18,270

Measurement Type: Removable Beta

Measurement Units: dpm/100cm²

Minimum Value: 43

Number of Measurements: 33

Investigation Level: 750

Maximum Value: 85

Discussion of Anomalous Measurement Data

Investigation Summary

Reason for Investigation: Nine scan measurements exceeded the investigation level.

Elevated Measurement Comparison (EMC):

| | |
|---|------------------------|
| DCGL (Investigation Level): | 7,500 |
| Measurement Units: | dpm/100cm ² |
| Maximum Value: | 32,340 |
| Size of Area Exceeding DCGL (m²): | 0.13 |
| Size of Survey Unit (m²): | 36 |
| Survey Unit Area >DCGL (%): | 0.35 |
| EMC Value: | 36,750 |

Action Taken: Corrected measurement values for scan locations per guidance in memo FS-018-03; used similar method for measurements obtained with a 43-68 gas flow proportional detector.. Replaced original scan results in SDMS with these corrected results. Applied EMC data processing to scan locations 015, 053, & 055 that remain elevated.

Basis for Action Taken: Technical basis memorandum FS-018-03 provides guidance for correcting SDMS determined scan results for locations that exceed the investigation level by subtracting instrument background from the field results.

FINAL SURVEY RESULTS SUMMARY

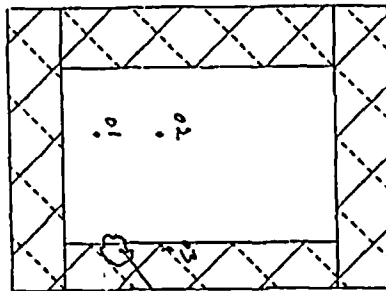
Survey Unit ID Code: S05077W

Survey Unit Name: AB 77' Elevation - Filter Pit "L"

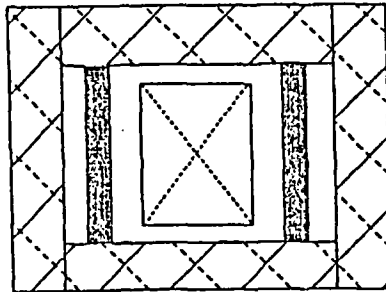
Classification: Class 1

Size (m²): 36

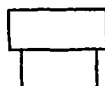
Static Measurement Location Map



PLAN VIEW OF ROOM

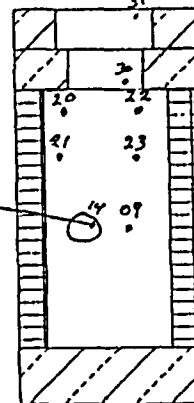


CEILING VIEW

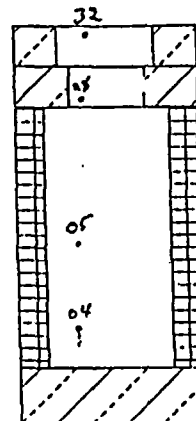


FINAL SURVEY UNIT
S05077W
Static Measurement Locations
Filter Pit L

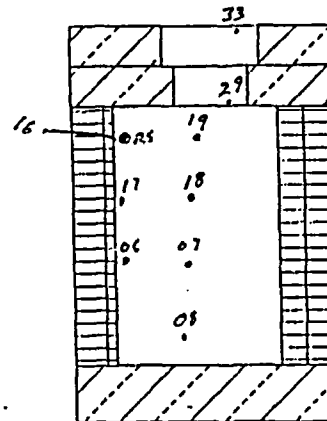
JUSTICE ILLUSTRATION



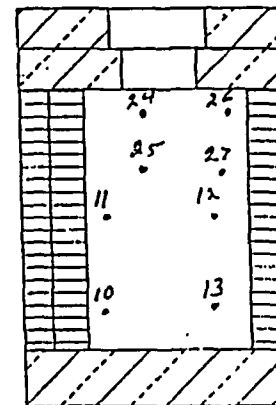
LOOKING SOUTH



LOOKING NORTH



LOOKING EAST



LOOKING WEST

Data Collected IAW RP 452 Rev. 7-20-04
 David Whitte *David Whitte* 7-20-04 Date
 Survey Technician
 D. E. T. *D. E. T.* 7-20-2004 Date
 Survey Technician

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05077X

Classification: Class 1

Survey Unit Name: AB 77' Elevation - Filter Pit "M"

Size (m²): 36

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|--------------------------|---------------|-------------------------|------------|-----|-----|
| 1 | 34 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 9.733e+002
 Maximum Value : 2.366e+003
 Range : 1.393e+003
 Median : 1.402e+003
 Std. Deviation : 3.799e+002
 Mean : 1.536e+003
 95% UCL : 1.647e+003

Measurement Values

| Location | Value | Location | Value |
|----------|------------|----------|------------|
| 000001 | 1.509e+003 | 000018 | 1.314e+003 |
| 000002 | 1.303e+003 | 000019 | 1.273e+003 |
| 000003 | 2.366e+003 | 000020 | 1.119e+003 |
| 000004 | 1.479e+003 | 000021 | 1.344e+003 |
| 000005 | 1.423e+003 | 000022 | 1.509e+003 |
| 000006 | 1.520e+003 | 000023 | 1.867e+003 |
| 000007 | 1.134e+003 | 000024 | 1.854e+003 |
| 000008 | 1.168e+003 | 000025 | 1.827e+003 |
| 000009 | 1.273e+003 | 000026 | 1.887e+003 |
| 000010 | 1.213e+003 | 000027 | 1.627e+003 |
| 000011 | 1.194e+003 | 000028 | 1.887e+003 |
| 000012 | 1.093e+003 | 000029 | 1.861e+003 |
| 000013 | 1.269e+003 | 000030 | 2.054e+003 |
| 000014 | 1.314e+003 | 000031 | 2.301e+003 |
| 000015 | 9.733e+002 | 000032 | 2.214e+003 |
| 000016 | 1.299e+003 | 000033 | 2.114e+003 |
| 000017 | 1.273e+003 | 000034 | 1.381e+003 |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05077X

Classification: Class 1

Survey Unit Name: AB 77' Elevation – Filter Pit "M"

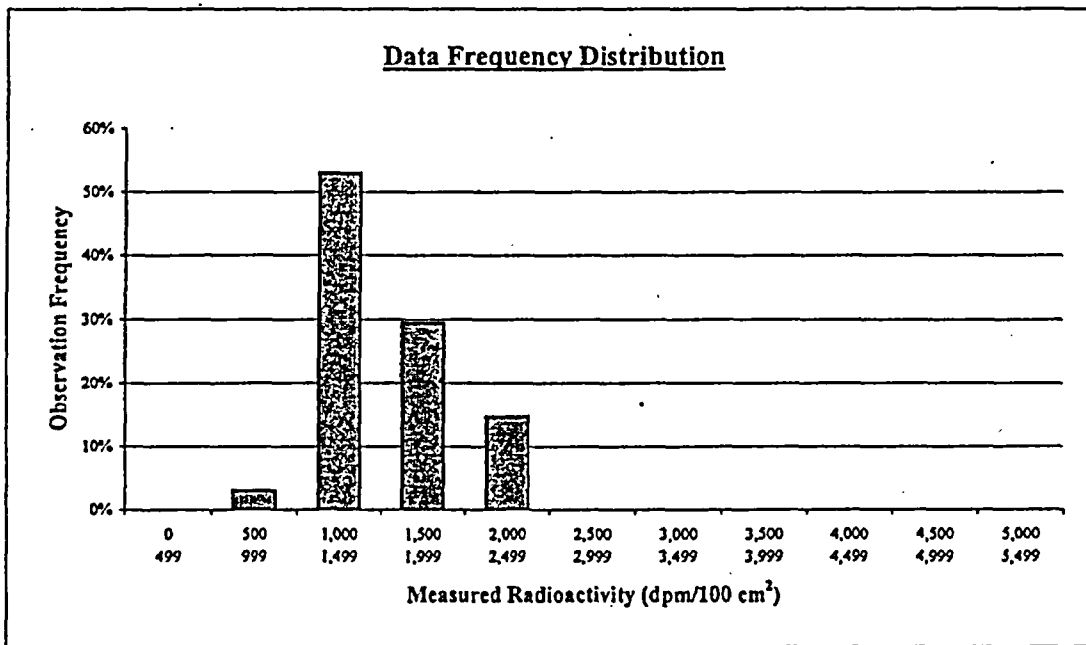
Size (m²): 36

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | |
|-------------------------|------------------|---------------------|-------------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? |
| Range | 1,393 | 1,900 | Pass |
| Median | 0.354 | 0.500 | Pass |
| Mean | 1,536 | 6,000 | Pass |
| Std Dev | 380 | 1,500 | Pass |

| Statistical Quantities | |
|------------------------|-------|
| Range: | 1,393 |
| Median: | 1,402 |
| Mean: | 1,536 |
| Std Dev: | 380 |
| Minimum: | 973 |
| Maximum: | 2,366 |
| DCGL: | 7,500 |

All data less than DCGL; Sign statistical test not required.



| Plot Parameters | |
|---------------------|-------|
| # of measurements: | 34 |
| # of intervals: | 11 |
| Interval increment: | 500 |
| Minimum: | 0 |
| Maximum: | 5,499 |

Comment:
NONE

| Interval | High End | Low End | Number of Observations | Observation Frequency |
|----------|----------|---------|------------------------|-----------------------|
| 1 | 499 | 0 | 0 | 0% |
| 2 | 999 | 500 | 1 | 3% |
| 3 | 1,499 | 1,000 | 18 | 53% |
| 4 | 1,999 | 1,500 | 10 | 29% |
| 5 | 2,499 | 2,000 | 5 | 15% |
| 6 | 2,999 | 2,500 | 0 | 0% |
| 7 | 3,499 | 3,000 | 0 | 0% |
| 8 | 3,999 | 3,500 | 0 | 0% |
| 9 | 4,499 | 4,000 | 0 | 0% |
| 10 | 4,999 | 4,500 | 0 | 0% |
| 11 | 5,499 | 5,000 | 0 | 0% |
| Total: | | | 34 | 100% |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05077X

Classification: Class 1

Survey Unit Name: AB 77' Elevation – Filter Pit “M”

Size (m²): 36

Judgmental and Miscellaneous Data

Measurement Type: Surface Scanning Beta

Scan Coverage (%): 100

Measurement Units: dpm/100cm²

Investigation Level: 7,500

Minimum Value: 1,457

Maximum Value: 5,554

Measurement Type: Removable Beta

Number of Measurements: 33

Measurement Units: dpm/100cm²

Investigation Level: 750

Minimum Value: 50

Maximum Value: 94

Discussion of Anomalous Measurement Data

Investigation Summary

Reason for Investigation: Two scan measurements exceeded the investigation level.

Elevated Measurement Comparison (EMC):

| | |
|---|------------------------|
| DCGL (Investigation Level): | 7,500 |
| Measurement Units: | dpm/100cm ² |
| Maximum Value: | 10,090 |
| Size of Area Exceeding DCGL (m²): | N/A |
| Size of Survey Unit (m²): | N/A |
| Survey Unit Area >DCGL (%): | N/A |
| EMC Value: | N/A |

Action Taken: Corrected measurement values for scan locations per guidance in memo FS-018-03. Replaced original scan results in SDMS with these results, all of which corrected to less than the investigation level.

Basis for Action Taken: Technical basis memorandum FS-018-03 provides guidance for correcting SDMS determined scan results for locations that exceed the investigation level by subtracting instrument background from the field results.

FINAL SURVEY RESULTS SUMMARY

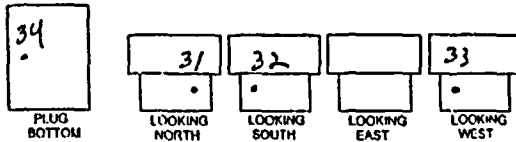
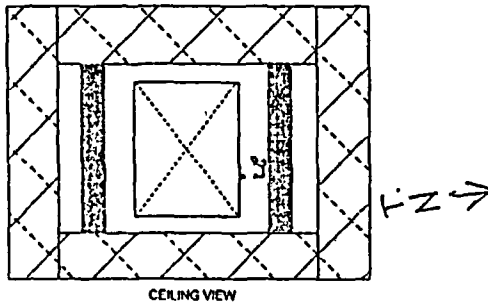
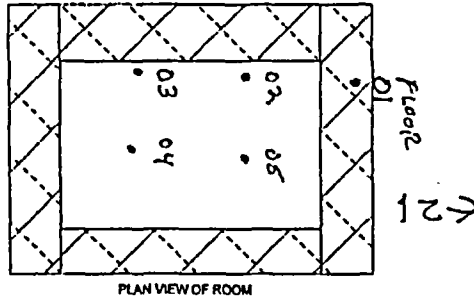
Survey Unit ID Code: S05077X

Survey Unit Name: AB.77' Elevation - Filter Pit "M"

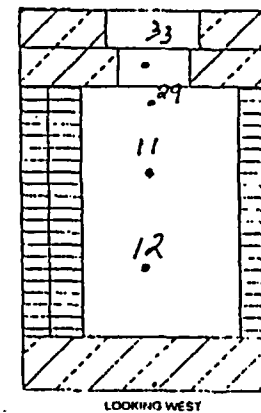
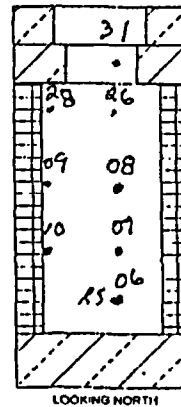
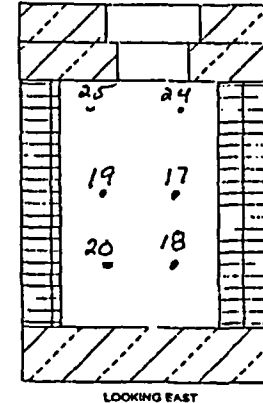
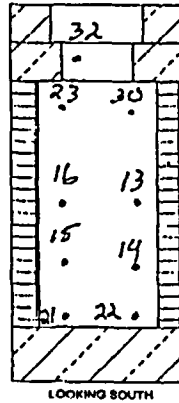
Classification: Class 1

Size (m²): 36

Static Measurement Location Map



FINAL SURVEY UNIT
S05077X
Static Measurement Locations
Filter Pit M



Random
start
location
(RS)

Data Collected IAW RP 452 Rev. 9
 J. [Signature] 7-22-04
 Survey Technician
 D. [Signature] 7-22-04
 Survey Technician

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05077Y

Survey Unit Name: AB 77' Elevation - Filter Pit "N"

Classification: Class 1

Size (m²): 36

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|-----------------------|------------|-------------------------|------------|-----|-----|
| 1 | 40 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 1.441e+003
 Maximum Value : 5.141e+003
 Range : 3.700e+003
 Median : 2.148e+003
 Std. Deviation : 7.558e+002
 Mean : 2.310e+003
 95% UCL : 2.511e+003

Measurement Values

| Location | Value | Location | Value | Location | Value |
|----------|------------|----------|------------|----------|------------|
| 000001 | 2.348e+003 | 000018 | 2.288e+003 | 000035 | 2.154e+003 |
| 000002 | 2.294e+003 | 000019 | 1.927e+003 | 000036 | 2.314e+003 |
| 000003 | 2.261e+003 | 000020 | 2.554e+003 | 000037 | 2.274e+003 |
| 000004 | 2.148e+003 | 000021 | 1.967e+003 | 000038 | 2.701e+003 |
| 000005 | 2.921e+003 | 000022 | 4.337e+003 | 000039 | 2.054e+003 |
| 000006 | 2.321e+003 | 000023 | 5.141e+003 | 000040 | 1.441e+003 |
| 000007 | 1.907e+003 | 000024 | 1.961e+003 | | |
| 000008 | 2.027e+003 | 000025 | 1.541e+003 | | |
| 000009 | 1.814e+003 | 000026 | 1.847e+003 | | |
| 000010 | 1.907e+003 | 000027 | 1.634e+003 | | |
| 000011 | 1.894e+003 | 000028 | 1.447e+003 | | |
| 000012 | 2.054e+003 | 000029 | 2.201e+003 | | |
| 000013 | 2.121e+003 | 000030 | 1.887e+003 | | |
| 000014 | 2.748e+003 | 000031 | 1.641e+003 | | |
| 000015 | 2.341e+003 | 000032 | 2.214e+003 | | |
| 000016 | 3.308e+003 | 000033 | 2.148e+003 | | |
| 000017 | 4.175e+003 | 000034 | 2.134e+003 | | |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05077Y

Survey Unit Name: AB 77' Elevation – Filter Pit ‘N’

Classification: Class 1

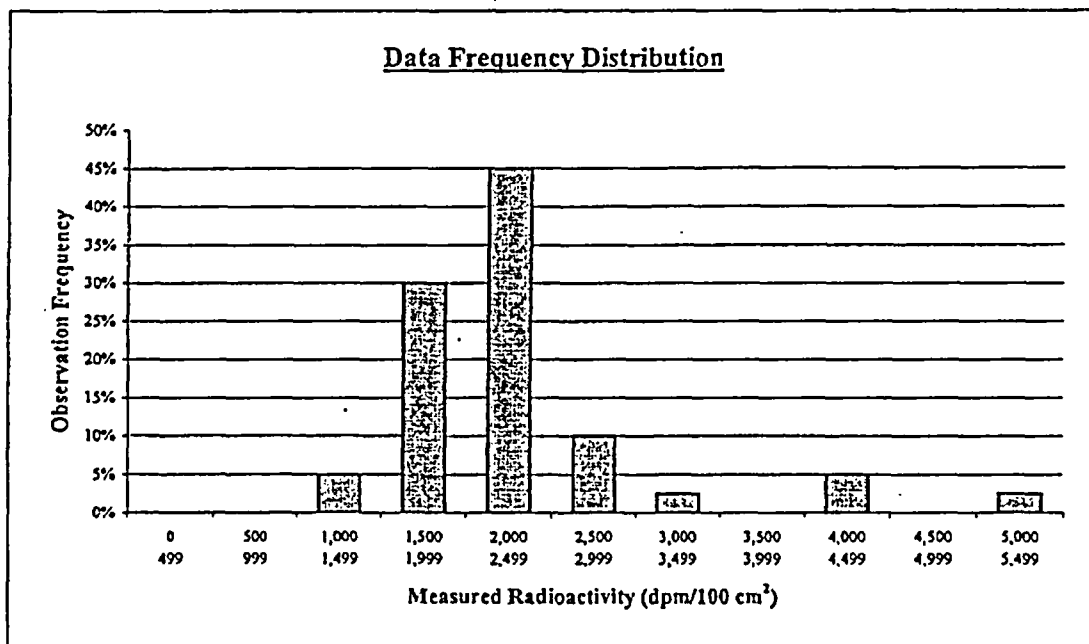
Size (m²): 36

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | |
|-------------------------|------------------|---------------------|-------------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? |
| Range | 3,700 | 3,779 | Pass |
| Median | 0.214 | 0.500 | Pass |
| Mean | 2,310 | 6,000 | Pass |
| Std Dev | 756 | 1,500 | Pass |

All data less than DCGL; Sign statistical test not required.

| Statistical Quantities | |
|------------------------|-------|
| Range: | 3,700 |
| Median: | 2,148 |
| Mean: | 2,310 |
| Std Dev: | 756 |
| Minimum: | 1,441 |
| Maximum: | 5,141 |
| DCGL: | 7,500 |



| Plot Parameters | |
|---------------------|-------|
| # of measurements: | 40 |
| # of intervals: | 11 |
| Interval increment: | 500 |
| Minimum: | 0 |
| Maximum: | 5,499 |

Comment:
NONE

| Interval | High End | Low End | Number of Observations | Observation Frequency |
|----------|----------|---------|------------------------|-----------------------|
| 1 | 499 | 0 | 0 | 0% |
| 2 | 999 | 500 | 0 | 0% |
| 3 | 1,499 | 1,000 | 2 | 5% |
| 4 | 1,999 | 1,500 | 12 | 30% |
| 5 | 2,499 | 2,000 | 18 | 45% |
| 6 | 2,999 | 2,500 | 4 | 10% |
| 7 | 3,499 | 3,000 | 1 | 3% |
| 8 | 3,999 | 3,500 | 0 | 0% |
| 9 | 4,499 | 4,000 | 2 | 5% |
| 10 | 4,999 | 4,500 | 0 | 0% |
| 11 | 5,499 | 5,000 | 1 | 3% |
| Total: | | | 40 | 100% |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05077Y

Classification: Class 1

Survey Unit Name: AB 77' Elevation – Filter Pit ‘N’

Size (m²): 36

Judgmental and Miscellaneous Data

Measurement Type: Surface Scanning Beta

Scan Coverage (%): 100

Measurement Units: dpm/100cm²

Investigation Level: 7,500

Minimum Value: 1,099

Maximum Value: 8,636

Measurement Type: Removable Beta

Number of Measurements: 40

Measurement Units: dpm/100cm²

Investigation Level: 750

Minimum Value: 49

Maximum Value: 86

Discussion of Anomalous Measurement Data

Investigation Summary

Reason for Investigation: Ten scan measurements exceeded the investigation level.

Elevated Measurement Comparison (EMC):

| | |
|---|------------------------|
| DCGL (Investigation Level): | 7,500 |
| Measurement Units: | dpm/100cm ² |
| Maximum Value: | 37,050 |
| Size of Area Exceeding DCGL (m²): | 0.16 |
| Size of Survey Unit (m²): | 36 |
| Survey Unit Area >DCGL (%): | 0.44 |
| EMC Value: | 36,750 |

Action Taken: Corrected measurement values for scan locations per guidance in memo FS-018-03; used similar method for elevated scan measurements obtained with a gas flow proportional detector. Deleted scan result for scan location 023 to be remediated. Replaced original scan results in SDMS with the corrected results for the others. Rescanned remediated area. Applied EMC data processing to corrected results of scan locations 013, 053, 054, & 055 that remain elevated.

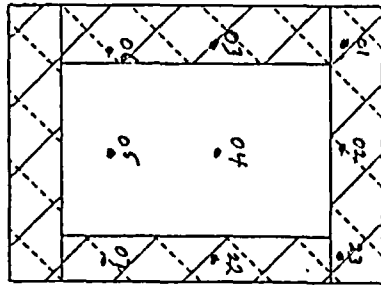
Basis for Action Taken: Technical basis memorandum FS-018-03 provides guidance for correcting SDMS determined scan results for locations that exceed the investigation level by subtracting instrument background from the field results.

FINAL SURVEY RESULTS SUMMARY

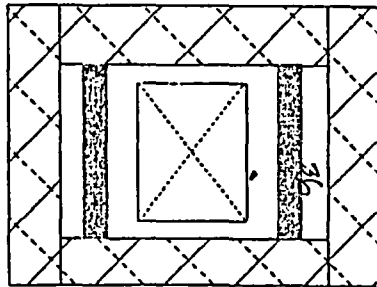
Survey Unit ID Code: S05077Y
 Survey Unit Name: AB 77' Elevation - Filter Pit "N"

Classification: Class 1
 Size (m²): 36

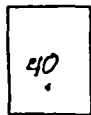
Static Measurement Location Map



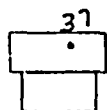
PLAN VIEW OF ROOM



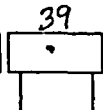
CERLING VIEW



PLUG BOTTOM



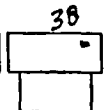
LOOKING NORTH



LOOKING SOUTH

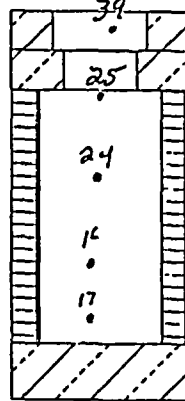


LOOKING EAST

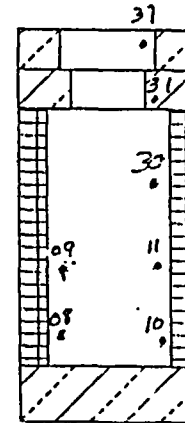


LOOKING WEST

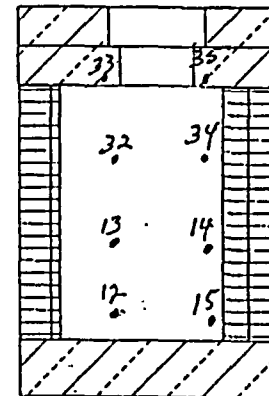
FINAL SURVEY UNIT
 S05077Y
 Static Measurement Locations
 Filter Pit N



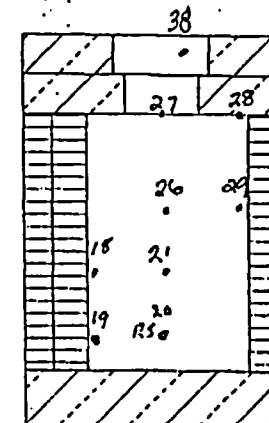
LOOKING SOUTH



LOOKING NORTH



LOOKING EAST



LOOKING WEST

Data Collected LAW RP 462 Rev.
 DAVID W. BIRD *David Bird* 7-27-04 Date
 Survey Technician
 S. Tracy G. Bradley 17-27-04 Date
 Survey Technician

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05077Z

Classification: Class 1

Survey Unit Name: AB 77' Elevation - Filter Pit "O"

Size (m²): 36

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|--------------------------|---------------|-------------------------|------------|-----|-----|
| 1 | 31 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 1.120e+003
 Maximum Value : 2.854e+003
 Range : 1.734e+003
 Median : 1.954e+003
 Std. Deviation : 3.006e+002
 Mean : 1.976e+003
 95% UCL : 2.067e+003

Measurement Values

| Location | Value | Location | Value |
|----------|------------|----------|------------|
| 000001 | 2.328e+003 | 000018 | 1.927e+003 |
| 000002 | 2.208e+003 | 000019 | 2.014e+003 |
| 000003 | 2.041e+003 | 000020 | 1.667e+003 |
| 000004 | 1.647e+003 | 000021 | 2.228e+003 |
| 000005 | 1.807e+003 | 000022 | 2.067e+003 |
| 000006 | 1.807e+003 | 000023 | 1.927e+003 |
| 000007 | 2.354e+003 | 000024 | 1.754e+003 |
| 000008 | 1.847e+003 | 000025 | 1.954e+003 |
| 000009 | 1.854e+003 | 000026 | 1.601e+003 |
| 000010 | 2.027e+003 | 000027 | 1.761e+003 |
| 000011 | 2.034e+003 | 000028 | 2.168e+003 |
| 000012 | 2.094e+003 | 000029 | 2.854e+003 |
| 000013 | 1.847e+003 | 000030 | 2.221e+003 |
| 000014 | 1.947e+003 | 000031 | 1.120e+003 |
| 000015 | 2.021e+003 | | |
| 000016 | 1.807e+003 | | |
| 000017 | 2.308e+003 | | |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05077Z

Survey Unit Name: AB 77' Elevation - Filter Pit "O"

Classification: Class 1

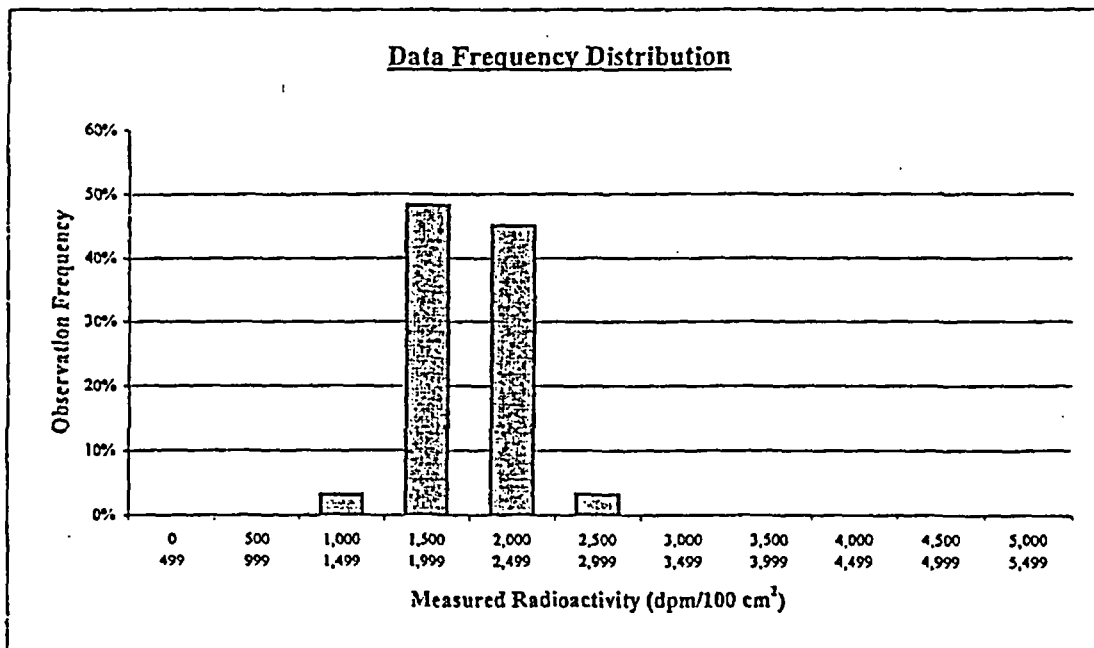
Size (m²): 36

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | |
|-------------------------|------------------|---------------------|-------------------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? |
| Range | 1,734 | 1,503 | See comment below |
| Median | 0.072 | 0.500 | Pass |
| Mean | 1,976 | 6,000 | Pass |
| Std Dev | 301 | 1,500 | Pass |

| Statistical Quantities | |
|------------------------|-------|
| Range: | 1,734 |
| Median: | 1,954 |
| Mean: | 1,976 |
| Std Dev: | 301 |
| Minimum: | 1,120 |
| Maximum: | 2,854 |
| DCGL: | 7,500 |

All data less than DCGL; Sign statistical test not required.



| Plot Parameters | |
|---------------------|-------|
| # of measurements: | 31 |
| # of intervals: | 11 |
| Interval increment: | 500 |
| Minimum: | 0 |
| Maximum: | 5,499 |

| Interval | High End | Low End | Number of Observations | Observation Frequency |
|----------|----------|---------|------------------------|-----------------------|
| 1 | 499 | 0 | 0 | 0% |
| 2 | 999 | 500 | 0 | 0% |
| 3 | 1,499 | 1,000 | 1 | 3% |
| 4 | 1,999 | 1,500 | 15 | 48% |
| 5 | 2,499 | 2,000 | 14 | 45% |
| 6 | 2,999 | 2,500 | 1 | 3% |
| 7 | 3,499 | 3,000 | 0 | 0% |
| 8 | 3,999 | 3,500 | 0 | 0% |
| 9 | 4,499 | 4,000 | 0 | 0% |
| 10 | 4,999 | 4,500 | 0 | 0% |
| 11 | 5,499 | 5,000 | 0 | 0% |
| Total: | | | 31 | 100% |

Comment:

Range failure is a test artifact due to a single measurement value exceeding 2,800 dpm, while the other 30 values are less than 2,400 dpm. All measurement values are valid & accepted.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05077Z

Classification: Class 1

Survey Unit Name: AB 77' Elevation – Filter Pit “O”

Size (m²): 36

Judgmental and Miscellaneous Data

Measurement Type: Surface Scanning Beta

Scan Coverage (%): 100

Measurement Units: dpm/100cm²

Investigation Level: 7,500

Minimum Value: 1,576

Maximum Value: 22,550

Measurement Type: Removable Beta

Number of Measurements: 31

Measurement Units: dpm/100cm²

Investigation Level: 750

Minimum Value: 46

Maximum Value: 80

Discussion of Anomalous Measurement Data

Investigation Summary

Reason for Investigation: Seven scan measurements exceeded the investigation level.

Elevated Measurement Comparison (EMC):

| | |
|---|------------------------|
| DCGL (Investigation Level): | 7,500 |
| Measurement Units: | dpm/100cm ² |
| Maximum Value: | 23,920 |
| Size of Area Exceeding DCGL (m²): | 0.20 |
| Size of Survey Unit (m²): | 36 |
| Survey Unit Area >DCGL (%): | 0.54 |
| EMC Value: | 36,750 |

Action Taken: Corrected measurement values for scan locations per guidance in memo FS-018-03; used similar method for measurements obtained with a 43-68 gas flow proportional detector. Replaced original scan results in SDMS with these corrected results. Applied EMC data processing to scan locations 017, 018, & 041 that remain elevated.

Basis for Action Taken: Technical basis memorandum FS-018-03 provides guidance for correcting SDMS determined scan results for locations that exceed the investigation level by subtracting instrument background from the field results.

FINAL SURVEY RESULTS SUMMARY

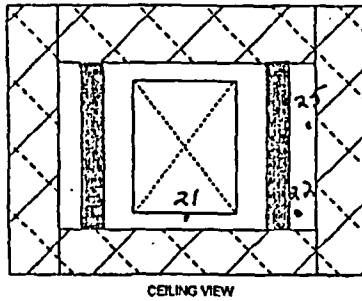
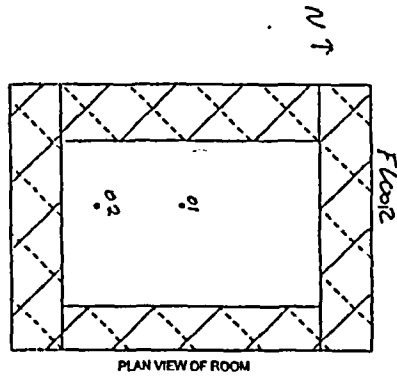
Survey Unit ID Code: S05077Z

Survey Unit Name: AB 77' Elevation - Filter Pit "O"

Classification: Class 1

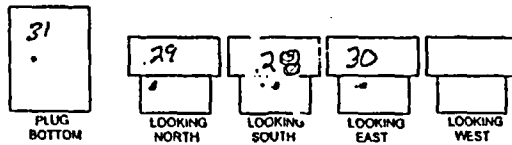
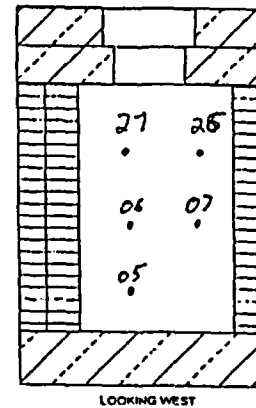
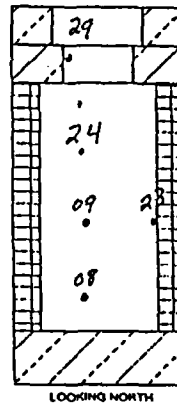
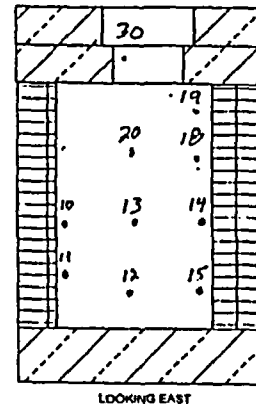
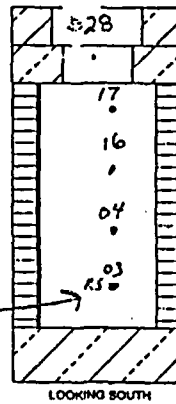
Size (m²): 36

Static Measurement Location Map



FINAL SURVEY UNIT
S05077Z
Static Measurement Locations
Filter Pit O

*Random
slant (RS)* →



Data Collected LAW RP 452 Rev. 9
David Waibit
 Date 12-28-2004
 Survey Technician
 DAVID WAIBIT
 Date 12-29-04
 Survey Technician

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05083A

Classification: Class 1

Survey Unit Name: AB 77' Elevation –

Size (m²): 197

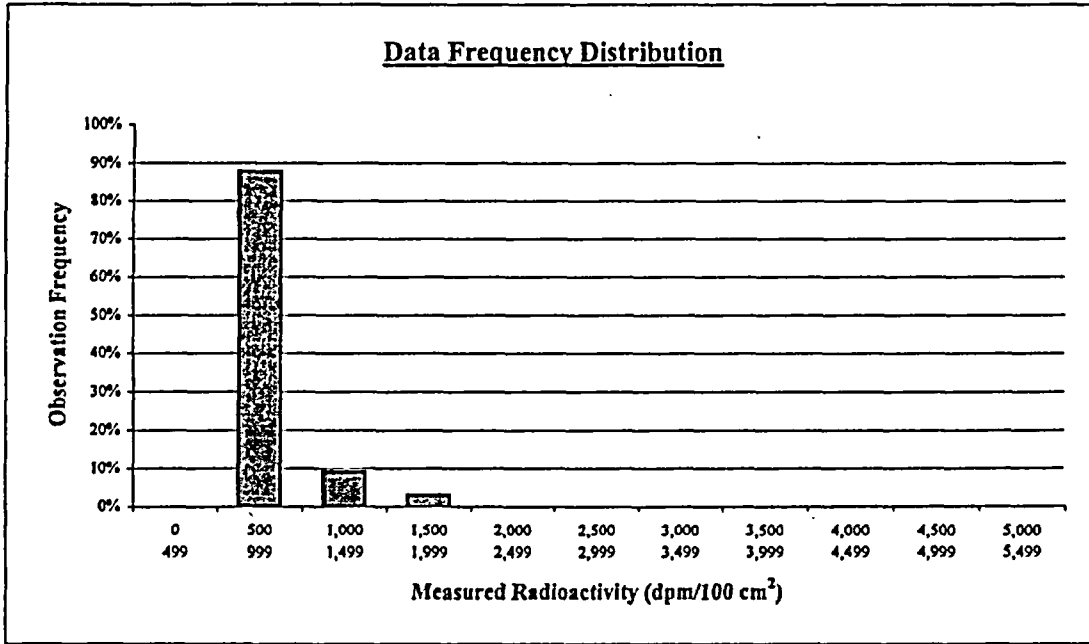
East Demineralizer Valve Gallery, Vaults, Upper Walls, and Ceiling

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | |
|-------------------------|------------------|---------------------|-------------------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? |
| Range | 1,324 | 1,151 | See comment below |
| Median | 0.242 | 0.500 | Pass |
| Mean | 916 | 6,000 | Pass |
| Std Dev | 230 | 1,500 | Pass |

| Statistical Quantities | |
|------------------------|-------|
| Range: | 1,324 |
| Median: | 860 |
| Mean: | 916 |
| Std Dev: | 230 |
| Minimum: | 647 |
| Maximum: | 1,971 |
| DCGL: | 7,500 |

All data less than DCGL; Sign statistical test not required.



| Plot Parameters | |
|---------------------|-------|
| # of measurements: | 33 |
| # of intervals: | 11 |
| Interval increment: | 500 |
| Minimum: | 0 |
| Maximum: | 5,499 |

| Interval | High End | Low End | Number of Observations | Observation Frequency |
|----------|----------|---------|------------------------|-----------------------|
| 1 | 499 | 0 | 0 | 0% |
| 2 | 999 | 500 | 29 | 88% |
| 3 | 1,499 | 1,000 | 3 | 9% |
| 4 | 1,999 | 1,500 | 1 | 3% |
| 5 | 2,499 | 2,000 | 0 | 0% |
| 6 | 2,999 | 2,500 | 0 | 0% |
| 7 | 3,499 | 3,000 | 0 | 0% |
| 8 | 3,999 | 3,500 | 0 | 0% |
| 9 | 4,499 | 4,000 | 0 | 0% |
| 10 | 4,999 | 4,500 | 0 | 0% |
| 11 | 5,499 | 5,000 | 0 | 0% |
| Total: | | | 33 | 100% |

Comment:

Range failure is a test artifact only due to a very small standard deviation for the data set. All measurement values are less than 2000 dpm, are valid, and are accepted.

FINAL SURVEY RESULTS SUMMARY

| | |
|---|----------------------------------|
| Survey Unit ID Code: S05083A | Classification: Class 1 |
| Survey Unit Name: AB 77' Elevation – East Demineralizer Valve Gallery, Vaults, Upper Walls, and Ceiling | Size (m²): 197 |

Judgmental and Miscellaneous Data

| | |
|--|-----------------------------------|
| Measurement Type: Surface Scanning Beta | Scan Coverage (%): 100 |
| Measurement Units: dpm/100cm ² | Investigation Level: 7,500 |
| Minimum Value: 830 | Maximum Value: 7,303 |
| | |
| Measurement Type: Removable Beta | Number of Measurements: 33 |
| Measurement Units: dpm/100cm ² | Investigation Level: 750 |
| Minimum Value: 48 | Maximum Value: 104 |

Discussion of Anomalous Measurement Data

Investigation Summary

Reason for Investigation: One scan measurement exceeded the investigation level.

Elevated Measurement Comparison (EMC):

| | |
|---|------------------------|
| DCGL (Investigation Level): | 7,500 |
| Measurement Units: | dpm/100cm ² |
| Maximum Value: | 8,232 |
| Size of Area Exceeding DCGL (m²): | N/A |
| Size of Survey Unit (m²): | N/A |
| Survey Unit Area >DCGL (%): | N/A |
| EMC Value: | N/A |

Action Taken: Corrected measurement value for scan location per guidance in memo FS-018-03. Replaced original scan result in SDMS with this result, which corrected to less than the investigation level.

Basis for Action Taken: Technical basis memorandum FS-018-03 provides guidance for correcting SDMS determined scan results for locations that exceed the investigation level by subtracting instrument background from the field results.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05083A

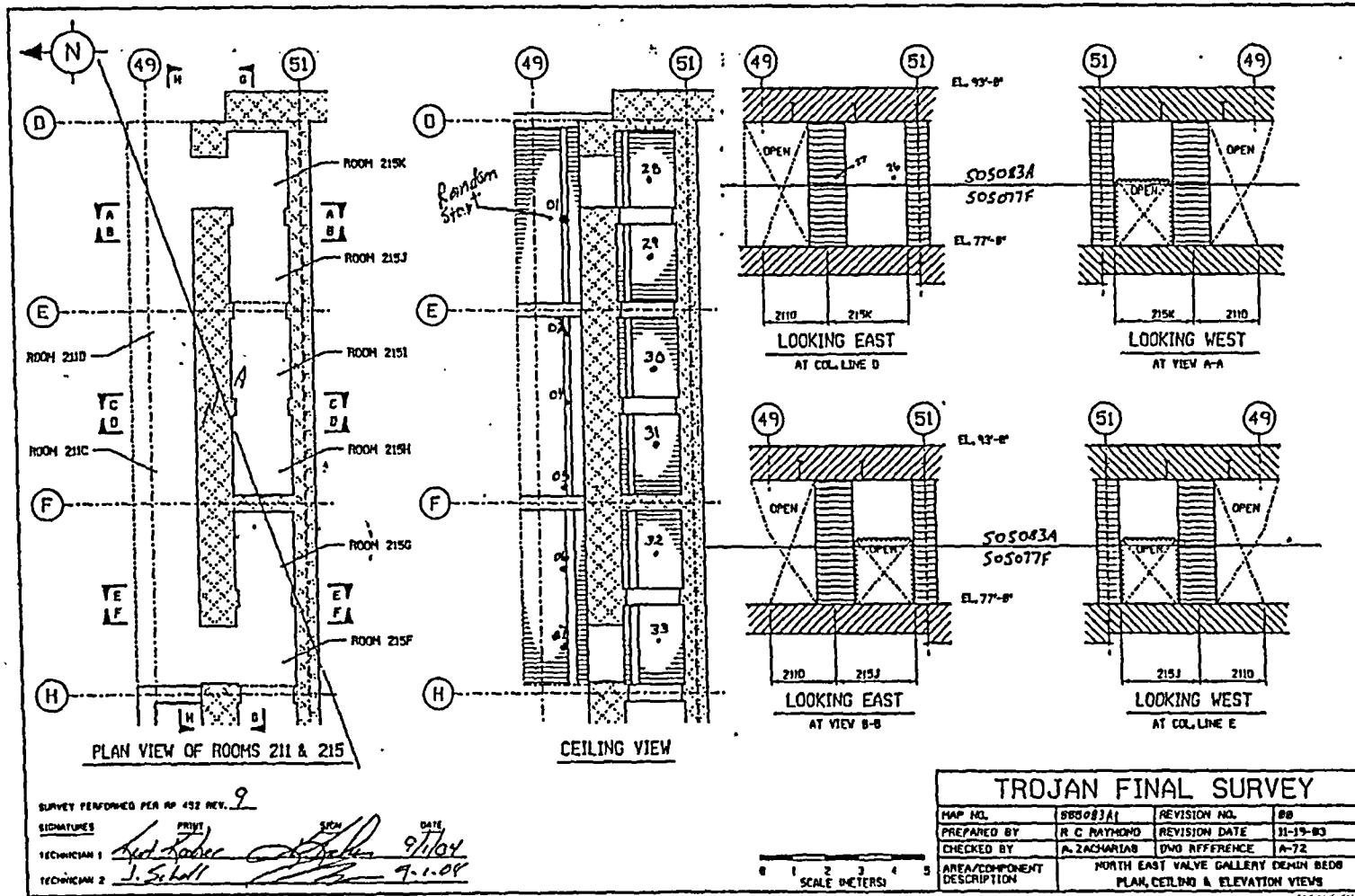
Survey Unit Name: AB 77' Elevation -

East Demineralizer Valve Gallery, Vaults, Upper Walls, and Ceiling

Classification: Class 1

Size (m²): 197

Static Measurement Location Map

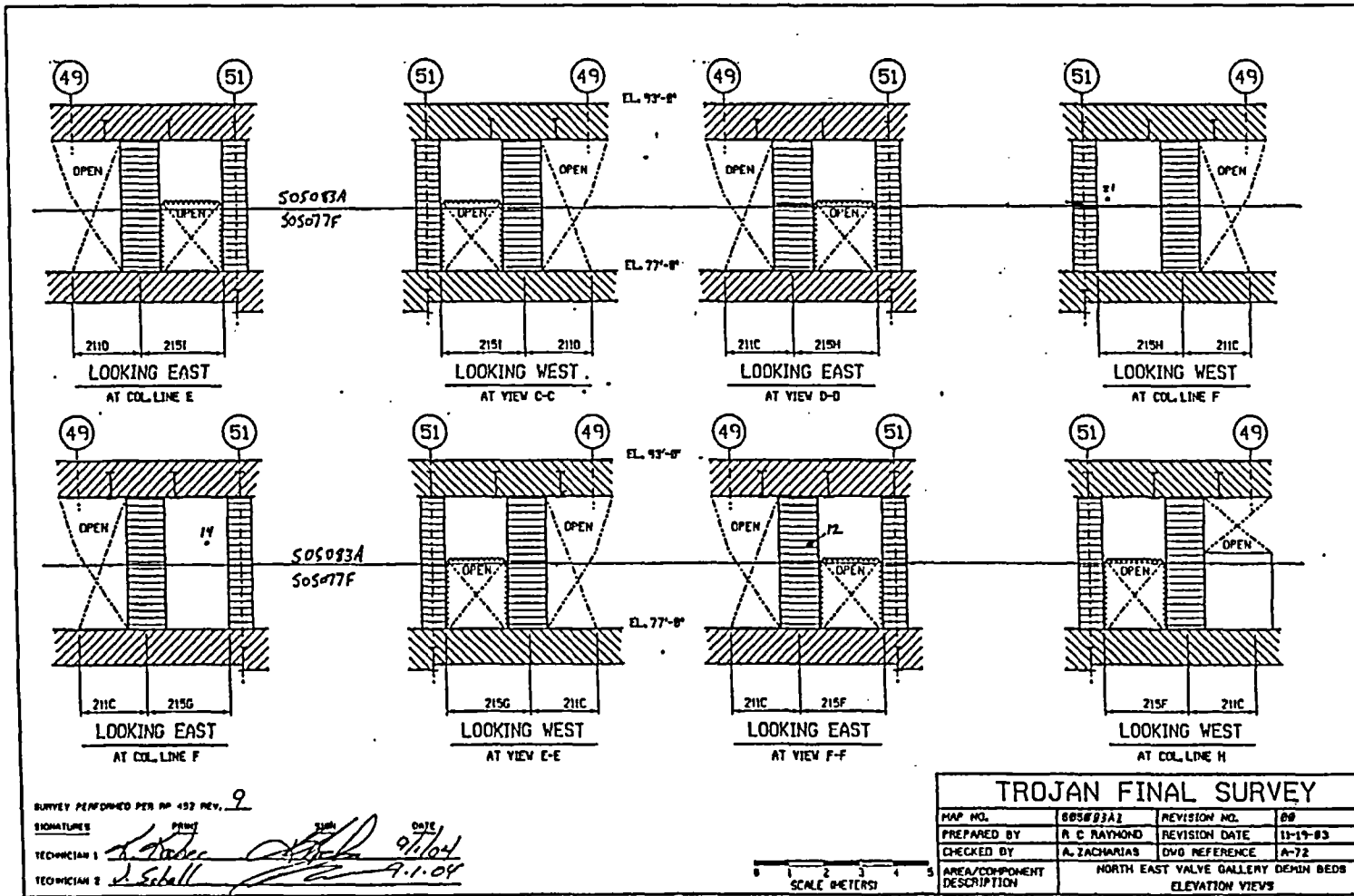


FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05083A
 Survey Unit Name: AB 77' Elevation -
 East Demineralizer Valve Gallery, Vaults, Upper Walls, and Ceiling

Classification: Class 1
 Size (m²): 197

Static Measurement Location Map



SURVEY PERFORMED PER PP 452 REV. 9
 SIGNATURES: [Signatures]
 TECHNICIAN 1: [Signature] 9/1/04
 TECHNICIAN 2: [Signature] 9.1.04

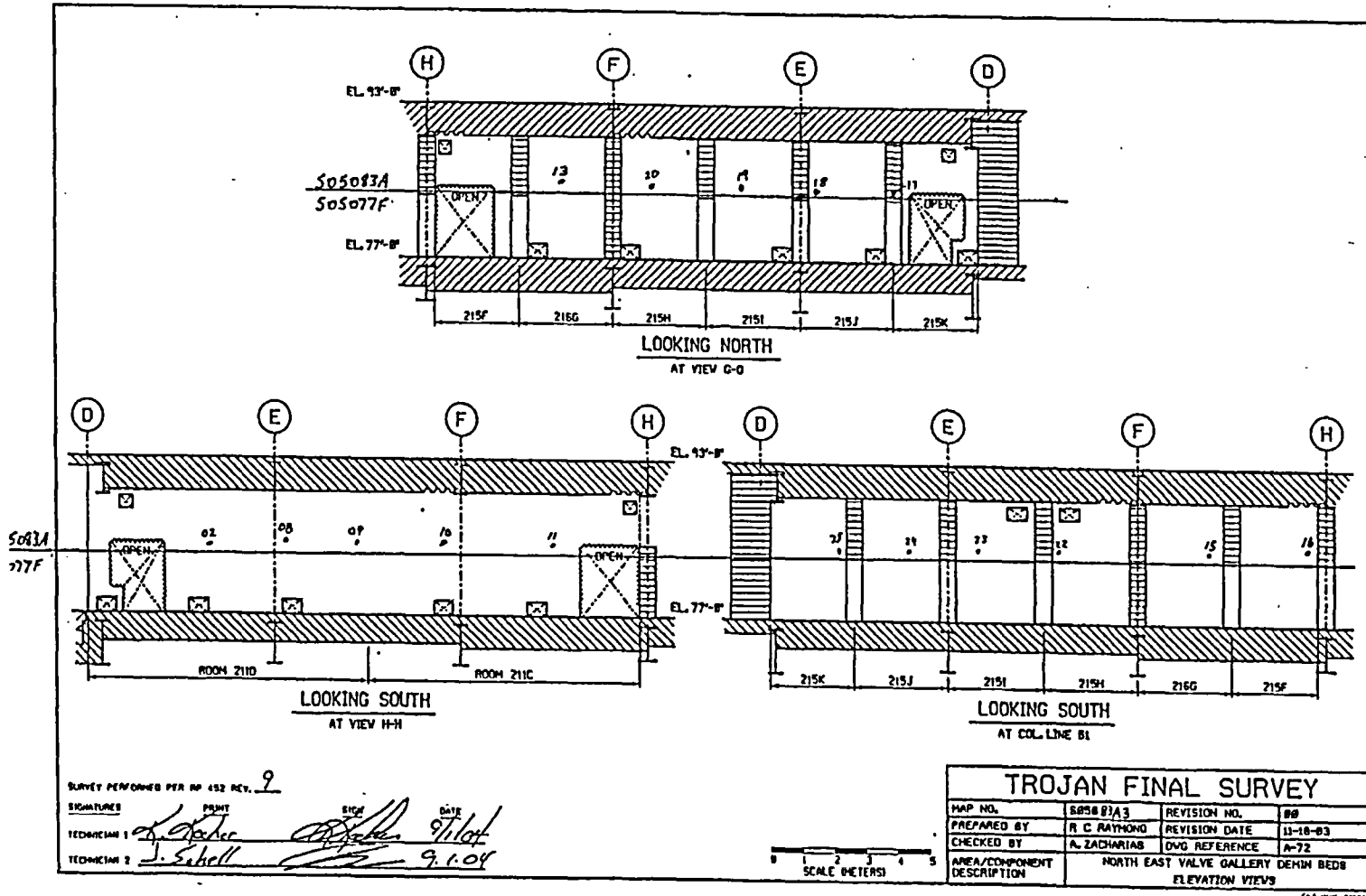
| TROJAN FINAL SURVEY | | | |
|----------------------------|---|---------------|----------|
| MAP NO. | S05083A1 | REVISION NO. | 00 |
| PREPARED BY | R C RAYMOND | REVISION DATE | 11-19-83 |
| CHECKED BY | A. ZACHARIAS | DWG REFERENCE | A-72 |
| AREA/COMPONENT DESCRIPTION | NORTH EAST VALVE GALLERY DEMIN BEDS ELEVATION VIEWS | | |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05083A
 Survey Unit Name: AB 77' Elevation -
 East Demineralizer Valve Gallery, Vaults, Upper Walls, and Ceiling

Classification: Class 1
 Size (m²): 197

Static Measurement Location Map



SURVEY PERFORMED PER RP 452 REV. 9
 SIGNATURES: [Handwritten signatures]
 TECHNICIAN 1: [Handwritten signature] 9/1/04
 TECHNICIAN 2: [Handwritten signature] 9.1.04

| TROJAN FINAL SURVEY | | | |
|----------------------------|---|---------------|----------|
| HAP NO. | S05083A3 | REVISION NO. | #0 |
| PREPARED BY | R. C. RAYMOND | REVISION DATE | 11-18-03 |
| CHECKED BY | A. ZACHARIAS | DWG REFERENCE | A-72 |
| AREA/COMPONENT DESCRIPTION | NORTH EAST VALVE GALLERY DEMIN BEDS ELEVATION VIEWS | | |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05083B

Classification: Class 1

Survey Unit Name: AB 77' Elevation -

Size (m²): 212

Horizontal Pipe Way Upper Walls and Ceiling

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|-----------------------|------------|-------------------------|------------|-----|-----|
| 1 | 40 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities.

Measurement Name:
 Minimum Value : 4.568e+002
 Maximum Value : 1.727e+003
 Range : 1.270e+003
 Median : 8.091e+002
 Std. Deviation : 1.871e+002
 Mean : 8.220e+002
 95% UCL : 8.718e+002

Measurement Values

| Location | Value | Location | Value | Location | Value |
|----------|------------|----------|------------|----------|------------|
| 000001 | 5.962e+002 | 000018 | 8.091e+002 | 000035 | 7.085e+002 |
| 000002 | 7.317e+002 | 000019 | 8.750e+002 | 000036 | 8.362e+002 |
| 000003 | 7.201e+002 | 000020 | 5.846e+002 | 000037 | 7.743e+002 |
| 000004 | 9.021e+002 | 000021 | 7.085e+002 | 000038 | 7.395e+002 |
| 000005 | 1.727e+003 | 000022 | 7.627e+002 | 000039 | 8.633e+002 |
| 000006 | 8.440e+002 | 000023 | 8.362e+002 | 000040 | 8.401e+002 |
| 000007 | 7.549e+002 | 000024 | 7.859e+002 | | |
| 000008 | 4.568e+002 | 000025 | 7.007e+002 | | |
| 000009 | 6.659e+002 | 000026 | 9.717e+002 | | |
| 000010 | 8.169e+002 | 000027 | 8.672e+002 | | |
| 000011 | 7.975e+002 | 000028 | 7.975e+002 | | |
| 000012 | 7.395e+002 | 000029 | 1.014e+003 | | |
| 000013 | 8.982e+002 | 000030 | 9.446e+002 | | |
| 000014 | 8.595e+002 | 000031 | 8.091e+002 | | |
| 000015 | 7.588e+002 | 000032 | 9.950e+002 | | |
| 000016 | 8.943e+002 | 000033 | 6.698e+002 | | |
| 000017 | 1.014e+003 | 000034 | 8.091e+002 | | |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05083B

Classification: Class 1

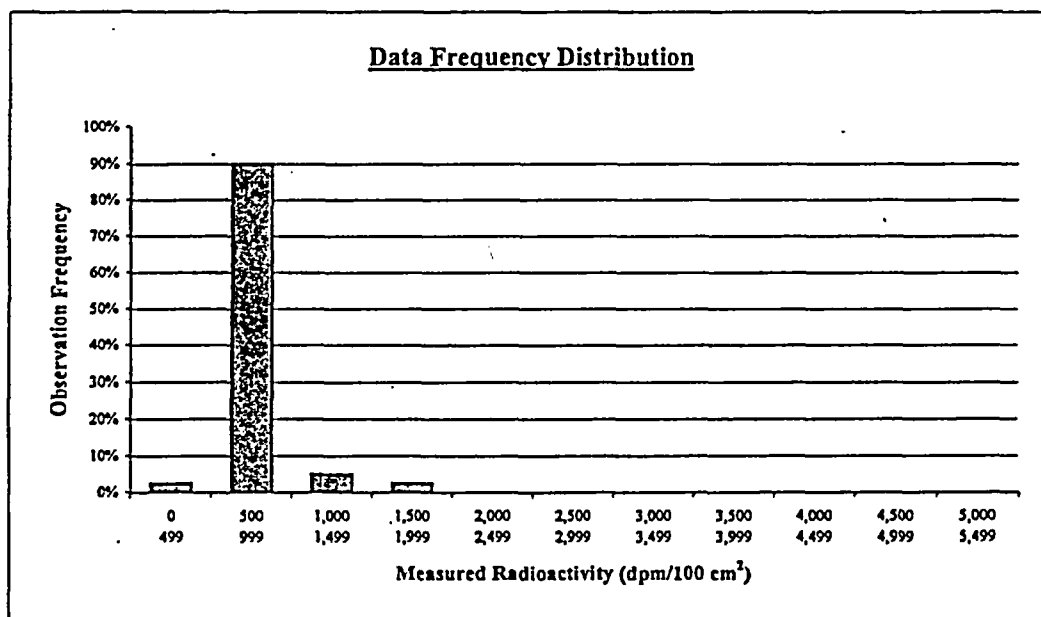
Survey Unit Name: AB 77' Elevation -

Size (m²): 212

Horizontal Pipe Way Upper Walls and Ceiling

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | | Statistical Quantities | |
|--|------------------|---------------------|-------------------|------------------------|-------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? | Range: | 1,270 |
| Range | 1,270 | 935 | See comment below | Median: | 809 |
| Median | 0.070 | 0.500 | Pass | Mean: | 822 |
| Mean | 822 | 6,000 | Pass | Std Dev: | 187 |
| Std Dev | 187 | 1,500 | Pass | Minimum: | 457 |
| | | | | Maximum: | 1,727 |
| All data less than DCGL; Sign statistical test not required. | | | | DCGL: | 7,500 |



| Plot Parameters | | Interval | High End | Low End | Number of Observations | Observation Frequency |
|---------------------|-------|----------|----------|---------|------------------------|-----------------------|
| # of measurements: | 40 | 1 | 499 | 0 | 1 | 3% |
| # of intervals: | 11 | 2 | 999 | 500 | 36 | 90% |
| Interval increment: | 500 | 3 | 1,499 | 1,000 | 2 | 5% |
| Minimum: | 0 | 4 | 1,999 | 1,500 | 1 | 3% |
| Maximum: | 5,499 | 5 | 2,499 | 2,000 | 0 | 0% |
| | | 6 | 2,999 | 2,500 | 0 | 0% |
| | | 7 | 3,499 | 3,000 | 0 | 0% |
| | | 8 | 3,999 | 3,500 | 0 | 0% |
| | | 9 | 4,499 | 4,000 | 0 | 0% |
| | | 10 | 4,999 | 4,500 | 0 | 0% |
| | | 11 | 5,499 | 5,000 | 0 | 0% |
| Total: | | | | | 40 | 100% |

Comment:

Range failure is a test artifact due to a single measurement value of 1,727 dpm with the other 39 values all less than 1,500 dpm, and a relatively small standard deviation for the data set, resulting in a range that is greater than 5 times the standard deviation. All measurement values are valid and accepted.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05083B **Classification:** Class 1
Survey Unit Name: AB 77' Elevation – **Size (m²):** 212
Horizontal Pipe Way Upper Walls and Ceiling

Judgmental and Miscellaneous Data

| | |
|--|-----------------------------------|
| Measurement Type: Surface Scanning Beta | Scan Coverage (%): 100 |
| Measurement Units: dpm/100cm ² | Investigation Level: 7,500 |
| Minimum Value: 762 | Maximum Value: 18,510 |
| Measurement Type: Removable Beta | Number of Measurements: 40 |
| Measurement Units: dpm/100cm ² | Investigation Level: 750 |
| Minimum Value: 50 | Maximum Value: 94 |

Discussion of Anomalous Measurement Data

Investigation Summary

Reason for Investigation: Five scan measurements exceeded the investigation level.

Elevated Measurement Comparison (EMC):

| | |
|---|------------------------|
| DCGL (Investigation Level): | 7,500 |
| Measurement Units: | dpm/100cm ² |
| Maximum Value: | 25,870 |
| Size of Area Exceeding DCGL (m²): | 0.02 |
| Size of Survey Unit (m²): | 212 |
| Survey Unit Area >DCGL (%): | 0.01 |
| EMC Value: | 36,750 |

Action Taken: Corrected measurement values for scan locations per guidance in memo FS-018-03. Replaced original scan results in SDMS with these corrected results. Applied EMC data processing to scan locations 220 & 227 that remain elevated.

Basis for Action Taken: Technical basis memorandum FS-018-03 provides guidance for correcting SDMS determined scan results for locations that exceed the investigation level by subtracting instrument background from the field results.

FINAL SURVEY RESULTS SUMMARY

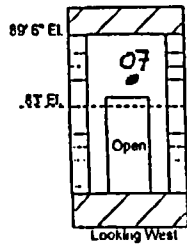
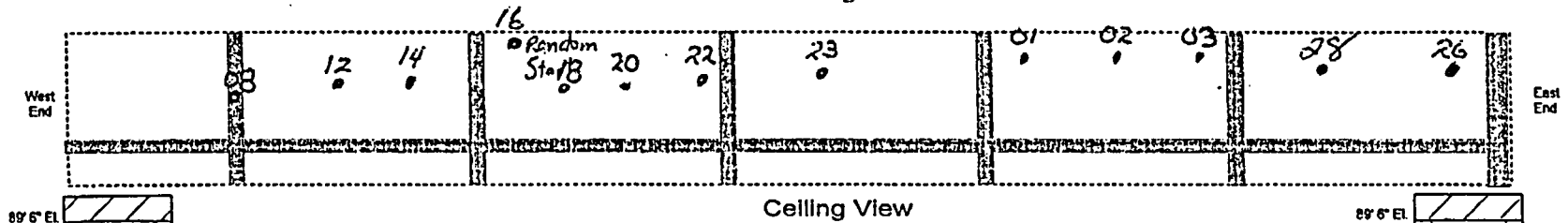
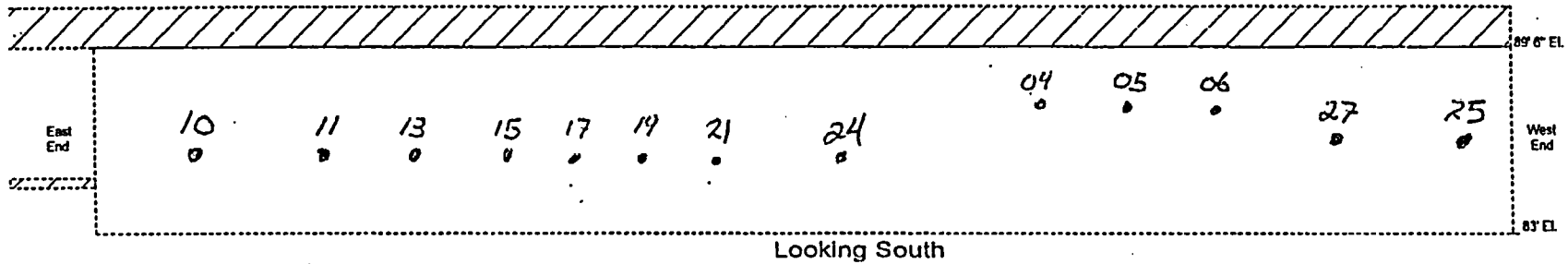
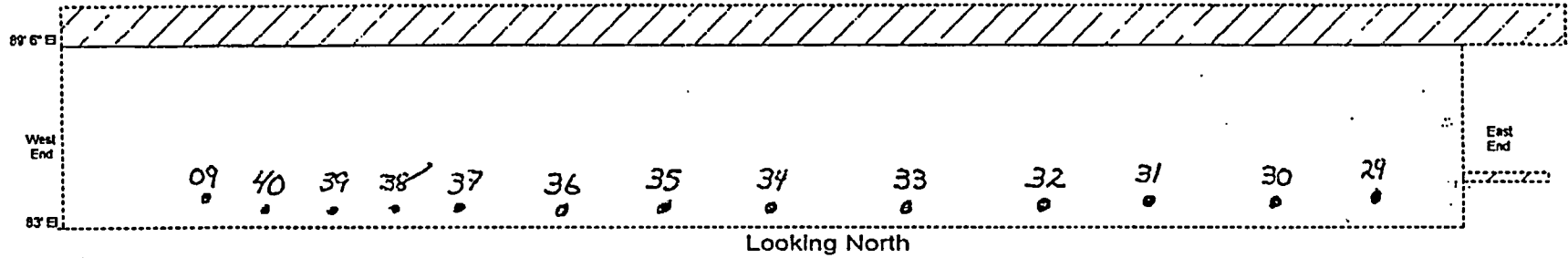
Survey Unit ID Code: S05083B

Survey Unit Name: AB 77' Elevation - Horizontal Pipe Way Upper Walls and Ceiling

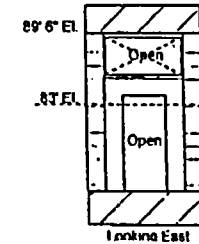
Classification: Class 1

Size (m²): 212

Static Measurement Location Map



Data Collection Performed IAW RP 452 Rev. 9
[Signature] 7/22/04
 Survey Technician Date
[Signature] 7-22-04
 Survey Technician Date



0830sm/c.a

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05083C

Classification: Class 2

Survey Unit Name: AB 77' Elevation -

Size (m²): 125

West Filter Valve Gallery Upper Walls and Ceiling

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|-----------------------|------------|-------------------------|------------|-----|-----|
| 1 | 37 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 9.227e+002
 Maximum Value : 1.897e+003
 Range : 9.743e+002
 Median : 1.316e+003
 Std. Deviation : 2.047e+002
 Mean : 1.288e+003
 95% UCL : 1.345e+003

Measurement Values

| Location | Value | Location | Value | Location | Value |
|----------|------------|----------|------------|----------|------------|
| 000001 | 1.149e+003 | 000018 | 1.342e+003 | 000035 | 1.239e+003 |
| 000002 | 9.227e+002 | 000019 | 1.420e+003 | 000036 | 1.297e+003 |
| 000003 | 1.536e+003 | 000020 | 1.361e+003 | 000037 | 1.897e+003 |
| 000004 | 1.161e+003 | 000021 | 1.581e+003 | | |
| 000005 | 1.491e+003 | 000022 | 1.265e+003 | | |
| 000006 | 1.549e+003 | 000023 | 1.368e+003 | | |
| 000007 | 1.078e+003 | 000024 | 1.194e+003 | | |
| 000008 | 1.013e+003 | 000025 | 1.336e+003 | | |
| 000009 | 1.149e+003 | 000026 | 9.550e+002 | | |
| 000010 | 1.116e+003 | 000027 | 1.400e+003 | | |
| 000011 | 1.458e+003 | 000028 | 1.355e+003 | | |
| 000012 | 1.342e+003 | 000029 | 1.316e+003 | | |
| 000013 | 9.356e+002 | 000030 | 1.303e+003 | | |
| 000014 | 1.271e+003 | 000031 | 1.316e+003 | | |
| 000015 | 1.039e+003 | 000032 | 1.426e+003 | | |
| 000016 | 9.743e+002 | 000033 | 1.316e+003 | | |
| 000017 | 1.336e+003 | 000034 | 1.458e+003 | | |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05083C

Classification: Class 2

Survey Unit Name: AB 77' Elevation -

Size (m²): 125

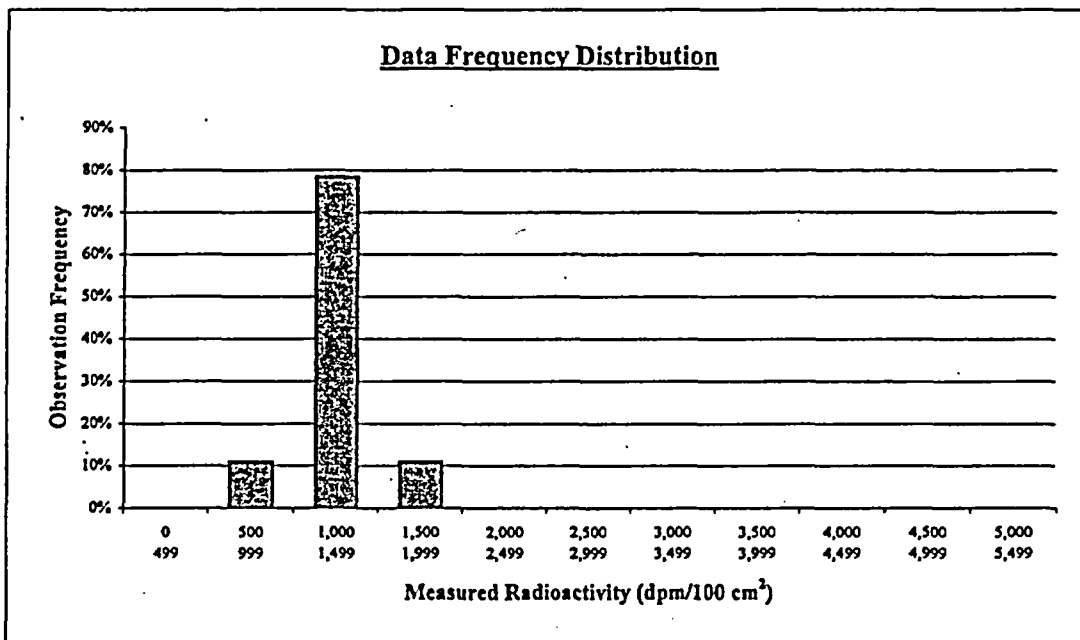
West Filter Valve Gallery Upper Walls and Ceiling

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | |
|-------------------------|------------------|---------------------|-------------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? |
| Range | 974 | 1,024 | Pass |
| Median | 0.136 | 0.500 | Pass |
| Mean | 1,288 | 6,000 | Pass |
| Std Dev | 205 | 1,500 | Pass |

| Statistical Quantities | |
|------------------------|-------|
| Range: | 974 |
| Median: | 1,316 |
| Mean: | 1,288 |
| Std Dev: | 205 |
| Minimum: | 923 |
| Maximum: | 1,897 |
| DCGL: | 7,500 |

All data less than DCGL; Sign statistical test not required.



| Plot Parameters | |
|---------------------|-------|
| # of measurements: | 37 |
| # of intervals: | 11 |
| Interval increment: | 500 |
| Minimum: | 0 |
| Maximum: | 5,499 |

Comment:
None.

| Interval | High End | Low End | Number of Observations | Observation Frequency |
|----------|----------|---------|------------------------|-----------------------|
| 1 | 499 | 0 | 0 | 0% |
| 2 | 999 | 500 | 4 | 11% |
| 3 | 1,499 | 1,000 | 29 | 78% |
| 4 | 1,999 | 1,500 | 4 | 11% |
| 5 | 2,499 | 2,000 | 0 | 0% |
| 6 | 2,999 | 2,500 | 0 | 0% |
| 7 | 3,499 | 3,000 | 0 | 0% |
| 8 | 3,999 | 3,500 | 0 | 0% |
| 9 | 4,499 | 4,000 | 0 | 0% |
| 10 | 4,999 | 4,500 | 0 | 0% |
| 11 | 5,499 | 5,000 | 0 | 0% |
| Total: | | | 37 | 100% |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05083C

Classification: Class 2

Survey Unit Name: AB 77' Elevation –

Size (m²): 125

West Filter Valve Gallery Upper Walls and Ceiling

Judgmental and Miscellaneous Data

Measurement Type: Surface Scanning Beta

Scan Coverage (%): 30

Measurement Units: dpm/100cm²

Investigation Level: 7,500

Minimum Value: 1,468

Maximum Value: 5,100

Measurement Type: Removable Beta

Number of Measurements: 37

Measurement Units: dpm/100cm²

Investigation Level: 750

Minimum Value: 50

Maximum Value: 86

Discussion of Anomalous Measurement Data

Investigation Summary

No investigation required for this survey unit. No anomalous measurement data.

FINAL SURVEY RESULTS SUMMARY

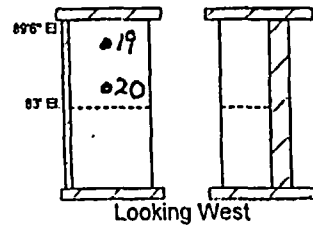
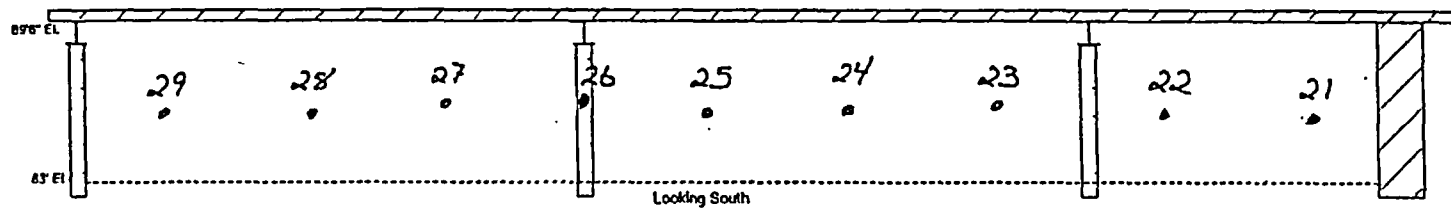
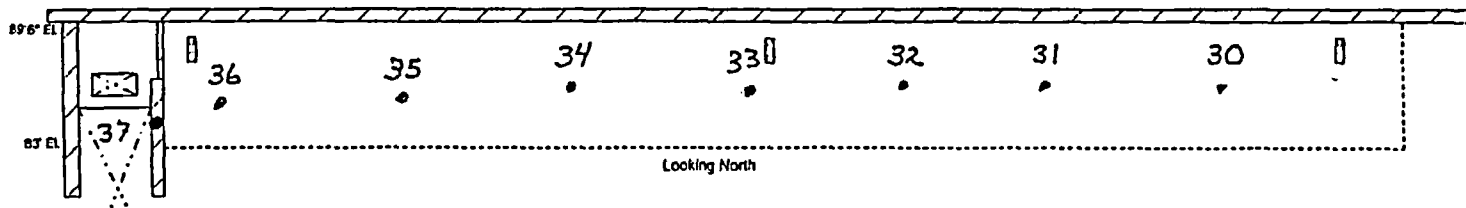
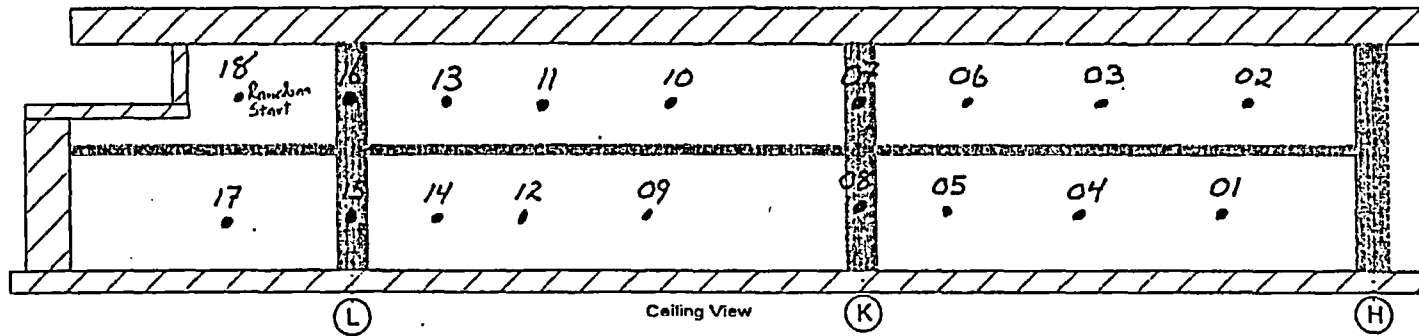
Survey Unit ID Code: S05083C

Classification: Class 2

Survey Unit Name: AB 77' Elevation - West Filter Valve Gallery Upper Walls and Ceiling

Size (m²): 125

Static Measurement Location Map



Data Collection Performed IAW RP 452 Rev. 9
[Signature] 7/6/04
 Survey Technician Date
J. Schell 7/6/04
 Survey Technician Date

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05083D Classification: Class 2
 Survey Unit Name: AB 77' Elevation - Size (m²): 184
 West Boric Acid Evaporator Room Upper Walls and Ceiling

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|-----------------------|------------|-------------------------|------------|-----|-----|
| 1 | 35 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 6.280e+002
 Maximum Value : 1.325e+003
 Range : 6.970e+002
 Median : 8.091e+002
 Std. Deviation : 1.335e+002
 Mean : 8.224e+002
 95% UCL : 8.605e+002

Measurement Values

| Location | Value | Location | Value | Location | Value |
|----------|------------|----------|------------|----------|------------|
| 000001 | 8.322e+002 | 000018 | 7.089e+002 | 000035 | 9.901e+002 |
| 000002 | 7.204e+002 | 000019 | 8.900e+002 | | |
| 000003 | 7.821e+002 | 000020 | 7.744e+002 | | |
| 000004 | 8.091e+002 | 000021 | 9.516e+002 | | |
| 000005 | 7.628e+002 | 000022 | 1.009e+003 | | |
| 000006 | 6.627e+002 | 000023 | 7.898e+002 | | |
| 000007 | 7.898e+002 | 000024 | 8.591e+002 | | |
| 000008 | 7.590e+002 | 000025 | 9.131e+002 | | |
| 000009 | 9.285e+002 | 000026 | 8.168e+002 | | |
| 000010 | 6.858e+002 | 000027 | 8.399e+002 | | |
| 000011 | 6.280e+002 | 000028 | 7.705e+002 | | |
| 000012 | 6.318e+002 | 000029 | 9.709e+002 | | |
| 000013 | 8.206e+002 | 000030 | 8.669e+002 | | |
| 000014 | 6.665e+002 | 000031 | 8.283e+002 | | |
| 000015 | 7.089e+002 | 000032 | 9.246e+002 | | |
| 000016 | 8.861e+002 | 000033 | 7.474e+002 | | |
| 000017 | 7.320e+002 | 000034 | 1.325e+003 | | |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05083D

Classification: Class 2

Survey Unit Name: AB 77' Elevation -

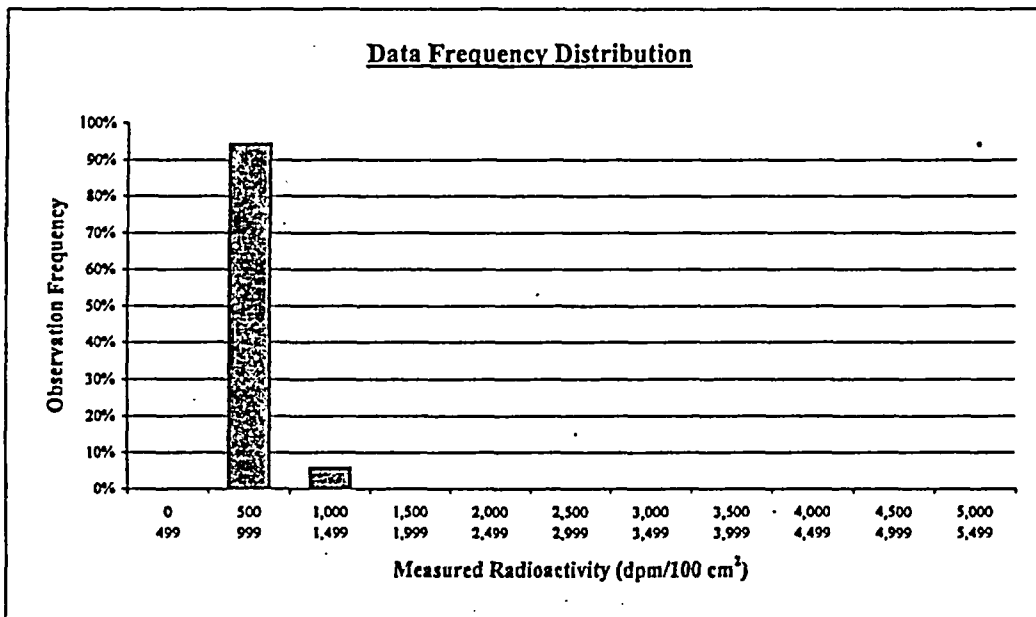
Size (m²): 184

West Boric Acid Evaporator Room Upper Walls and Ceiling

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | | Statistical Quantities | |
|-------------------------|------------------|---------------------|-------------------|------------------------|-------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? | Range: | 697 |
| Range | 697 | 667 | See comment below | Median: | 809 |
| Median | 0.101 | 0.500 | Pass | Mean: | 822 |
| Mean | 822 | 6,000 | Pass | Std Dev: | 133 |
| Std Dev | 133 | 1,500 | Pass | Minimum: | 628 |
| | | | | Maximum: | 1,325 |
| | | | | DCGL: | 7,500 |

All data less than DCGL; Sign statistical test not required.



| Plot Parameters | | Number of Observations | | | | Observation Frequency |
|---------------------|-------|------------------------|----------|---------|----|-----------------------|
| | | Interval | High End | Low End | | |
| # of measurements: | 35 | 1 | 499 | 0 | 0 | 0% |
| # of intervals: | 11 | 2 | 999 | 500 | 33 | 94% |
| Interval increment: | 500 | 3 | 1,499 | 1,000 | 2 | 6% |
| Minimum: | 0 | 4 | 1,999 | 1,500 | 0 | 0% |
| Maximum: | 5,499 | 5 | 2,499 | 2,000 | 0 | 0% |
| | | 6 | 2,999 | 2,500 | 0 | 0% |
| | | 7 | 3,499 | 3,000 | 0 | 0% |
| | | 8 | 3,999 | 3,500 | 0 | 0% |
| | | 9 | 4,499 | 4,000 | 0 | 0% |
| | | 10 | 4,999 | 4,500 | 0 | 0% |
| | | 11 | 5,499 | 5,000 | 0 | 0% |
| | | Total: | | | 35 | 100% |

Comment:

Range failure is a test artifact due to a very small standard deviation and range for the data set, resulting in a range value that is slightly greater than the test criterion of 5 times the standard deviation. All measurement values are valid and accepted.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05083D

Classification: Class 2

Survey Unit Name: AB 77' Elevation –

Size (m²): 184

West Boric Acid Evaporator Room Upper Walls and Ceiling

Judgmental and Miscellaneous Data

Measurement Type: Surface Scanning Beta

Scan Coverage (%): 25

Measurement Units: dpm/100cm²

Investigation Level: 7,500

Minimum Value: 889

Maximum Value: 2,987

Measurement Type: Removable Beta

Number of Measurements: 35

Measurement Units: dpm/100cm²

Investigation Level: 750

Minimum Value: 39

Maximum Value: 82

Discussion of Anomalous Measurement Data

Investigation Summary

No investigation required for this survey unit. No anomalous measurement data.

FINAL SURVEY RESULTS SUMMARY

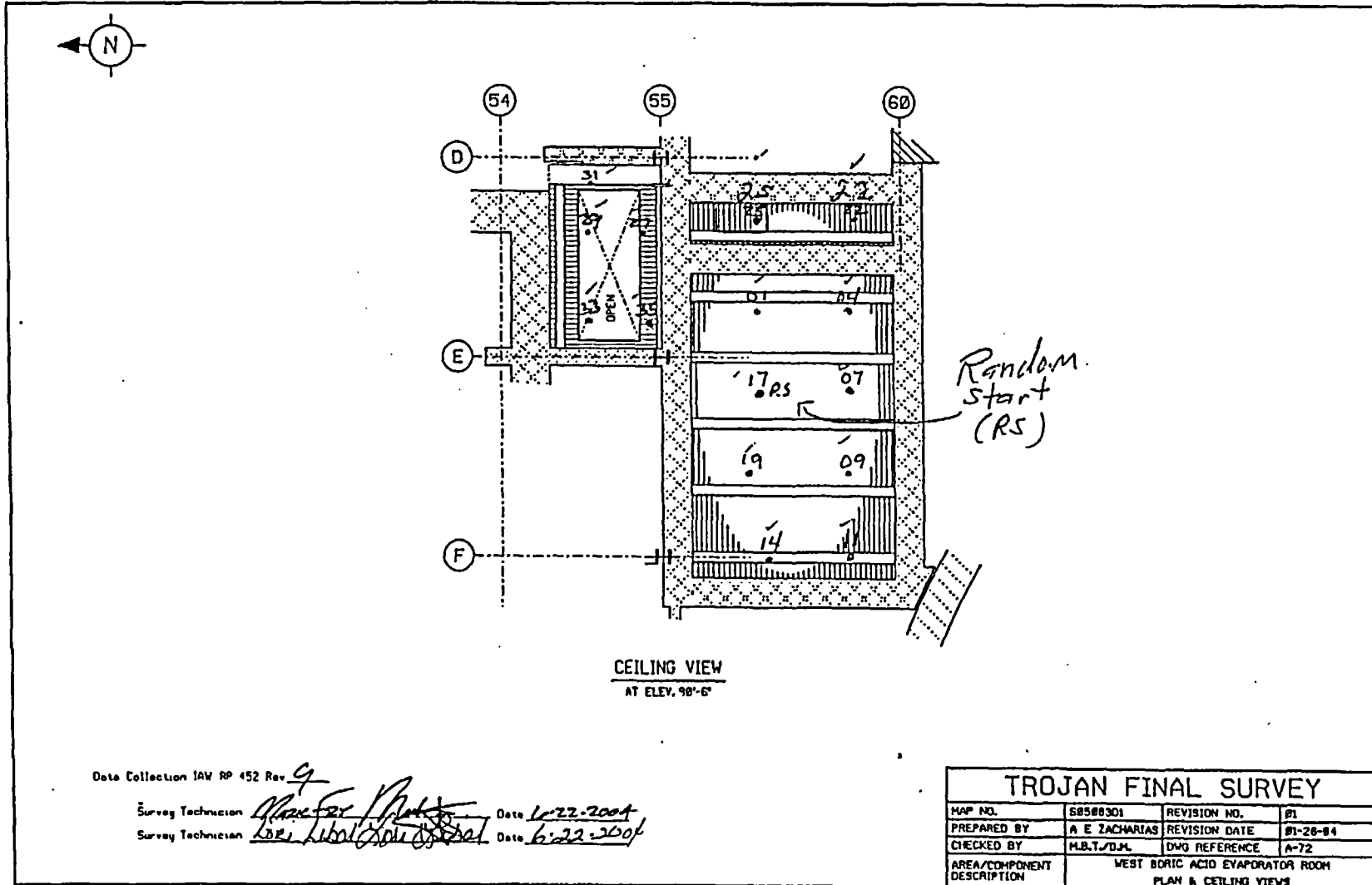
Survey Unit ID Code: S05083D

Survey Unit Name: AB 77' Elevation - West Boric Acid Evaporator Room Upper Walls and Ceiling

Classification: Class 2

Size (m²): 184

Static Measurement Location Map



FINAL SURVEY RESULTS SUMMARY

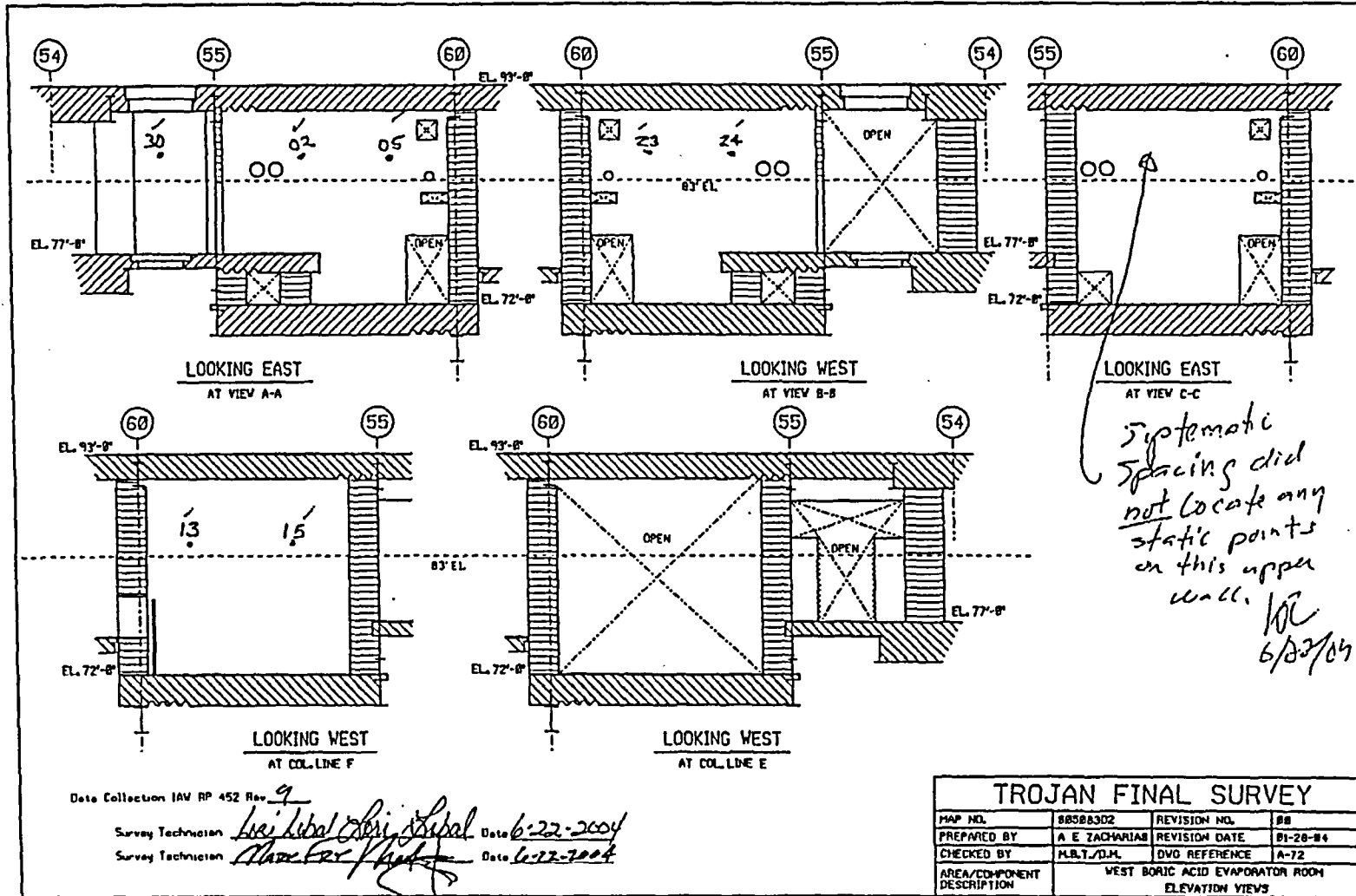
Survey Unit ID Code: S05083D

Survey Unit Name: AB 77' Elevation - West Boric Acid Evaporator Room Upper Walls and Ceiling

Classification: Class 2

Size (m²): 184

Static Measurement Location Map



FINAL SURVEY RESULTS SUMMARY

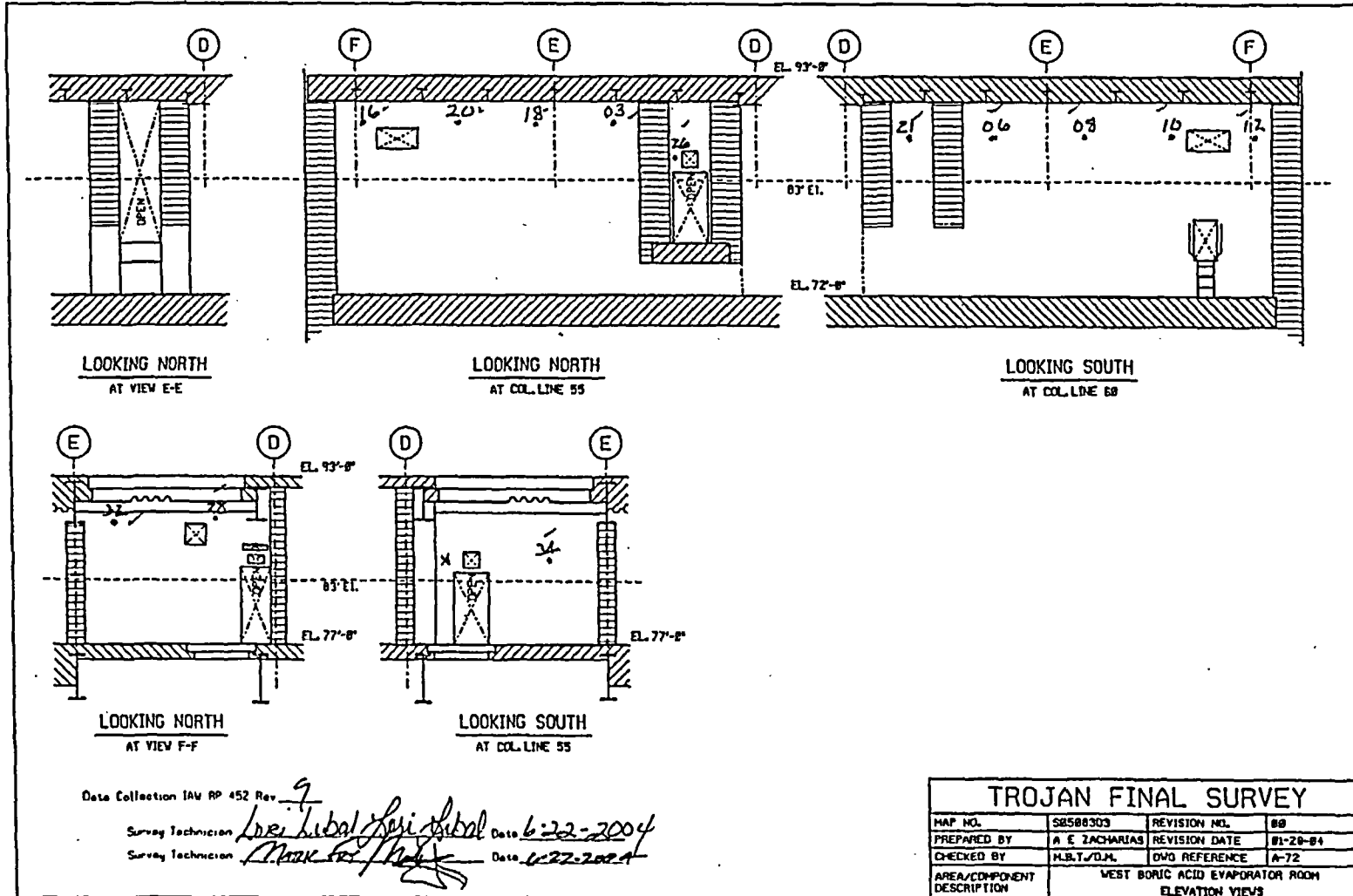
Survey Unit ID Code: S05083D

Survey Unit Name: AB 77' Elevation - West Boric Acid Evaporator Room Upper Walls and Ceiling

Classification: Class 2

Size (m²): 184

Static Measurement Location Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05083E

Classification: Class 2

Survey Unit Name: AB 77' Elevation -

Size (m²): 237

CCW Surge Tank Area Upper Walls and Ceiling

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|--------------------------|---------------|-------------------------|------------|-----|-----|
| 1 | 30 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 6.203e+002
 Maximum Value : 1.341e+003
 Range : 7.207e+002
 Median : 1.037e+003
 Std. Deviation : 1.774e+002
 Mean : 1.040e+003
 95% UCL : 1.095e+003

Measurement Values

| Location | Value | Location | Value |
|----------|------------|----------|------------|
| 000001 | 1.029e+003 | 000018 | 1.341e+003 |
| 000002 | 8.052e+002 | 000019 | 1.252e+003 |
| 000003 | 8.938e+002 | 000020 | 1.113e+003 |
| 000004 | 7.050e+002 | 000021 | 1.044e+003 |
| 000005 | 1.029e+003 | 000022 | 8.861e+002 |
| 000006 | 6.203e+002 | 000023 | 1.244e+003 |
| 000007 | 9.208e+002 | 000024 | 1.202e+003 |
| 000008 | 1.171e+003 | 000025 | 8.553e+002 |
| 000009 | 1.271e+003 | 000026 | 1.009e+003 |
| 000010 | 9.439e+002 | 000027 | 1.156e+003 |
| 000011 | 1.160e+003 | 000028 | 1.144e+003 |
| 000012 | 9.747e+002 | 000029 | 9.054e+002 |
| 000013 | 1.144e+003 | 000030 | 1.183e+003 |
| 000014 | 8.553e+002 | | |
| 000015 | 1.241e+003 | | |
| 000016 | 9.555e+002 | | |
| 000017 | 1.152e+003 | | |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05083E

Classification: Class 2

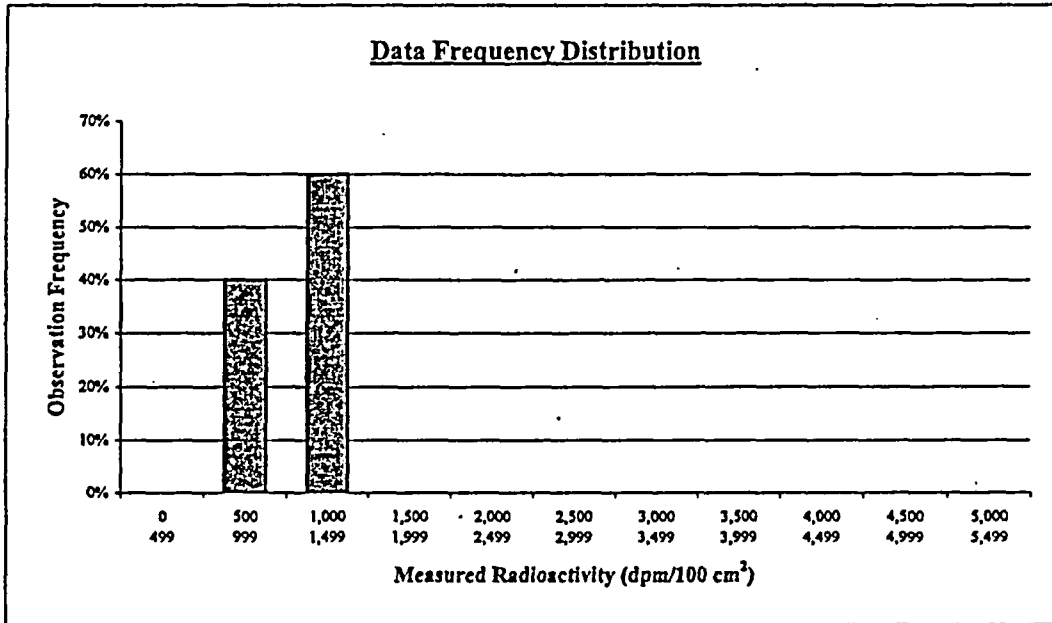
Survey Unit Name: AB 77' Elevation -

Size (m²): 237

CCW Surge Tank Area Upper Walls and Ceiling

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | | Statistical Quantities | |
|--|------------------|---------------------|-------------|------------------------|-------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? | Range: | 721 |
| Range | 721 | 887 | Pass | Median: | 1,037 |
| Median | 0.021 | 0.500 | Pass | Mean: | 1,040 |
| Mean | 1,040 | 6,000 | Pass | Std Dev: | 177 |
| Std Dev | 177 | 1,500 | Pass | Minimum: | 620 |
| All data less than DCGL; Sign statistical test not required. | | | | Maximum: | 1,341 |
| | | | | DCGL: | 7,500 |



| Plot Parameters | | Interval | High End | Low End | Number of Observations | Observation Frequency |
|---------------------|-------|----------|----------|---------|------------------------|-----------------------|
| # of measurements: | 30 | 1 | 499 | 0 | 0 | 0% |
| # of intervals: | 11 | 2 | 999 | 500 | 12 | 40% |
| Interval increment: | 500 | 3 | 1,499 | 1,000 | 18 | 60% |
| Minimum: | 0 | 4 | 1,999 | 1,500 | 0 | 0% |
| Maximum: | 5,499 | 5 | 2,499 | 2,000 | 0 | 0% |
| | | 6 | 2,999 | 2,500 | 0 | 0% |
| | | 7 | 3,499 | 3,000 | 0 | 0% |
| | | 8 | 3,999 | 3,500 | 0 | 0% |
| | | 9 | 4,499 | 4,000 | 0 | 0% |
| | | 10 | 4,999 | 4,500 | 0 | 0% |
| | | 11 | 5,499 | 5,000 | 0 | 0% |
| Total: | | | | | 30 | 100% |

Comment:
None.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05083E

Classification: Class 2

Survey Unit Name: AB 77' Elevation –

Size (m²): 237

CCW Surge Tank Area Upper Walls and Ceiling

Judgmental and Miscellaneous Data

Measurement Type: Surface Scanning Beta

Scan Coverage (%): 35

Measurement Units: dpm/100cm²

Investigation Level: 7,500

Minimum Value: 733

Maximum Value: 6,531

Measurement Type: Removable Beta

Number of Measurements: 30

Measurement Units: dpm/100cm²

Investigation Level: 750

Minimum Value: 45

Maximum Value: 85

Discussion of Anomalous Measurement Data

Investigation Summary

No investigation required for this survey unit. No anomalous measurement data.

FINAL SURVEY RESULTS SUMMARY

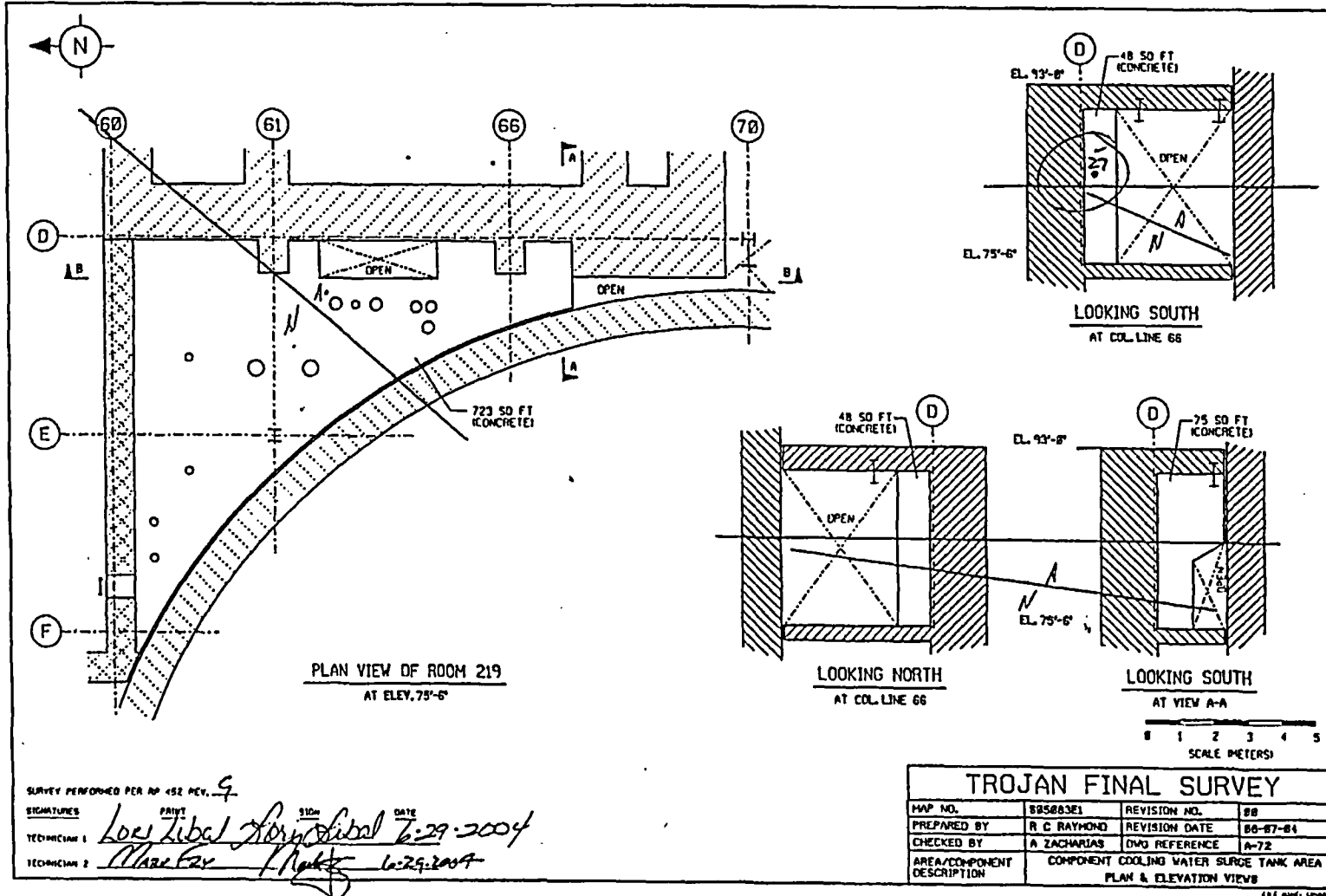
Survey Unit ID Code: S05083E

Survey Unit Name: AB 77' Elevation - CCW Surge Tank Area Upper Walls and Ceiling

Classification: Class 2

Size (m²): 237

Static Measurement Location Map



FINAL SURVEY RESULTS SUMMARY

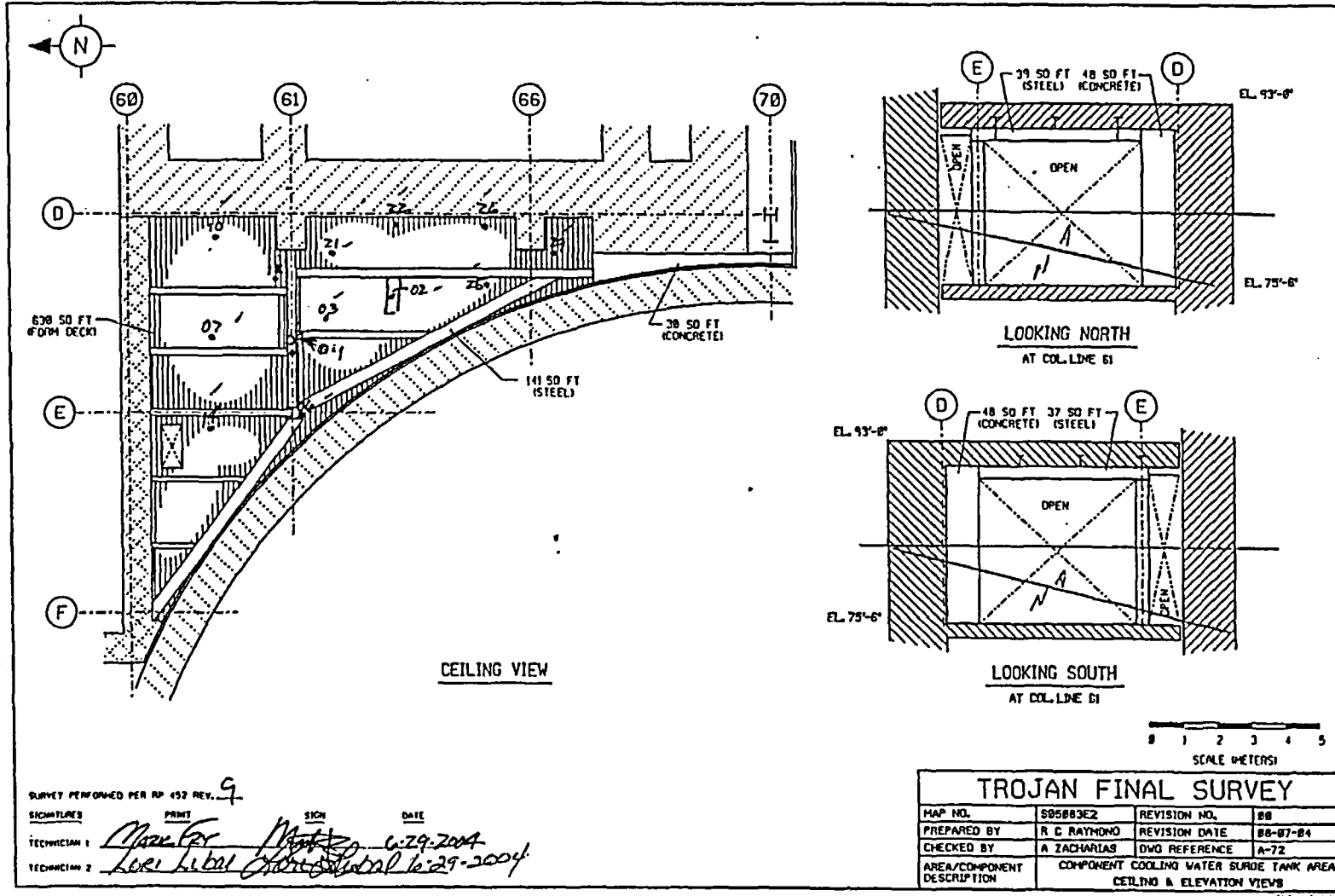
Survey Unit ID Code: S05083E

Survey Unit Name: AB 77' Elevation - CCW Surge Tank Area Upper Walls and Ceiling

Classification: Class 2

Size (m²): 237

Static Measurement Location Map



FINAL SURVEY RESULTS SUMMARY

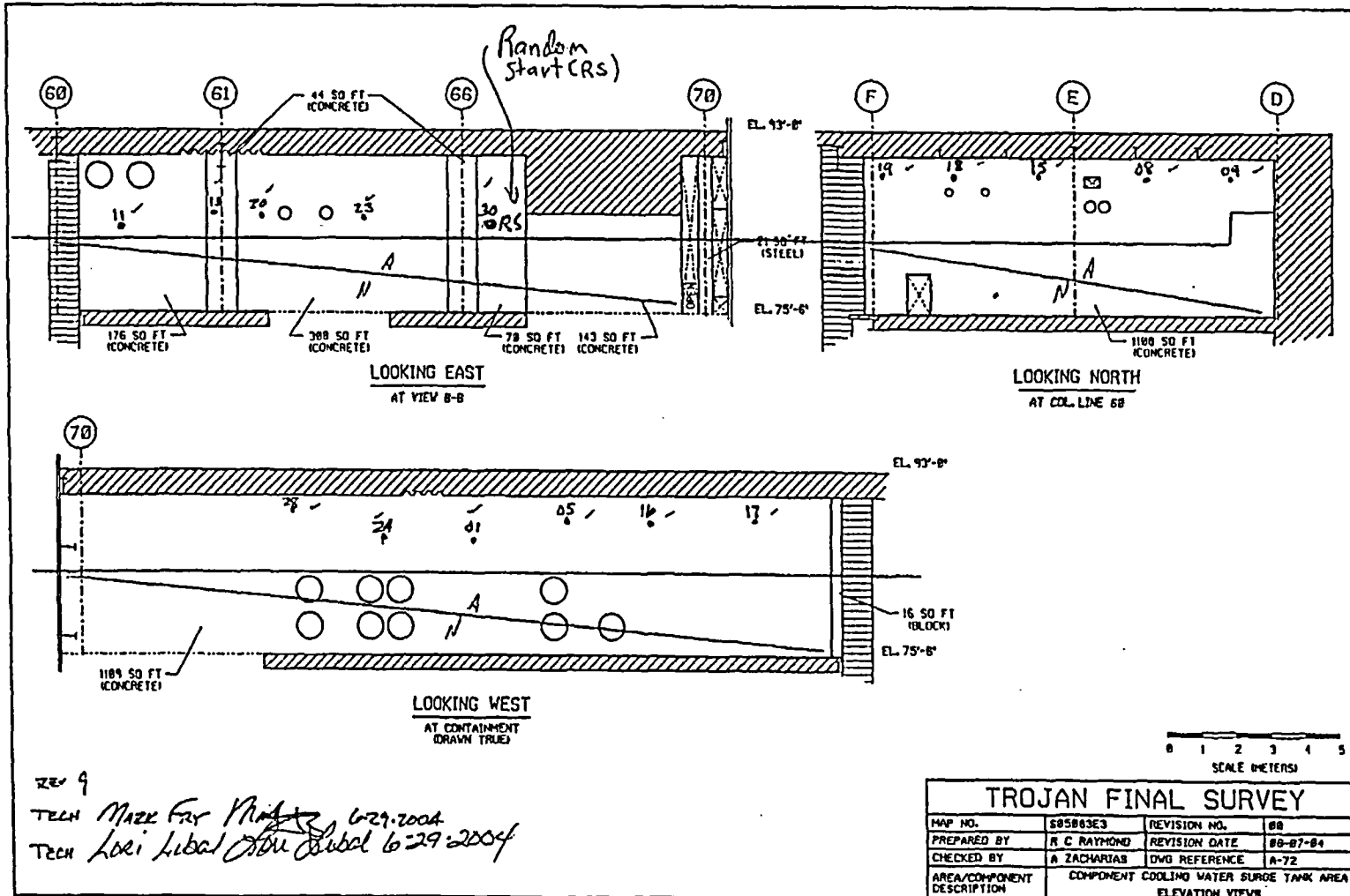
Survey Unit ID Code: S05083E

Survey Unit Name: AB 77' Elevation - CCW Surge Tank Area Upper Walls and Ceiling

Classification: Class 2

Size (m²): 237

Static Measurement Location Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05089A
 Survey Unit Name: AB 77' Elevation -
 East Filter Valve Gallery Ceiling

Classification: Class 2
 Size (m²): 33

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|-----------------------|------------|-------------------------|------------|-----|-----|
| 1 | 62 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 4.469e+002
 Maximum Value : 1.110e+003
 Range : 6.631e+002
 Median : 6.973e+002
 Std. Deviation : 1.633e+002
 Mean : 7.075e+002
 95% UCL : 7.422e+002

Measurement Values

| Location | Value | Location | Value | Location | Value |
|----------|------------|----------|------------|----------|------------|
| 000001 | 7.282e+002 | 000018 | 7.782e+002 | 000035 | 4.854e+002 |
| 000002 | 6.550e+002 | 000019 | 6.164e+002 | 000036 | 7.590e+002 |
| 000003 | 7.282e+002 | 000020 | 6.203e+002 | 000037 | 6.588e+002 |
| 000004 | 7.166e+002 | 000021 | 6.781e+002 | 000038 | 1.110e+003 |
| 000005 | 5.972e+002 | 000022 | 7.705e+002 | 000039 | 7.282e+002 |
| 000006 | 6.973e+002 | 000023 | 4.700e+002 | 000040 | 7.397e+002 |
| 000007 | 7.436e+002 | 000024 | 5.394e+002 | 000041 | 1.052e+003 |
| 000008 | 8.630e+002 | 000025 | 4.816e+002 | 000042 | 7.397e+002 |
| 000009 | 8.900e+002 | 000026 | 5.124e+002 | 000043 | 6.280e+002 |
| 000010 | 7.937e+002 | 000027 | 5.779e+002 | 000044 | 5.317e+002 |
| 000011 | 7.667e+002 | 000028 | 8.861e+002 | 000045 | 1.079e+003 |
| 000012 | 7.898e+002 | 000029 | 1.009e+003 | 000046 | 5.586e+002 |
| 000013 | 6.819e+002 | 000030 | 8.514e+002 | 000047 | 5.394e+002 |
| 000014 | 5.509e+002 | 000031 | 5.740e+002 | 000048 | 9.901e+002 |
| 000015 | 5.702e+002 | 000032 | 4.931e+002 | 000049 | 7.667e+002 |
| 000016 | 5.818e+002 | 000033 | 6.395e+002 | 000050 | 7.513e+002 |
| 000017 | 6.049e+002 | 000034 | 7.513e+002 | 000051 | 9.940e+002 |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05089A
Survey Unit Name: AB 77' Elevation -
East Filter Valve Gallery Ceiling

Classification: Class 2
Size (m²): 33

Data Quality Values

| <u>Location</u> | <u>Value</u> |
|-----------------|--------------|
| 000052 | 6.973e+002 |
| 000053 | 6.973e+002 |
| 000054 | 7.590e+002 |
| 000055 | 9.632e+002 |
| 000056 | 9.439e+002 |
| 000057 | 6.742e+002 |
| 000058 | 6.935e+002 |
| 000059 | 7.204e+002 |
| 000060 | 5.047e+002 |
| 000061 | 4.469e+002 |
| 000062 | 4.469e+002 |

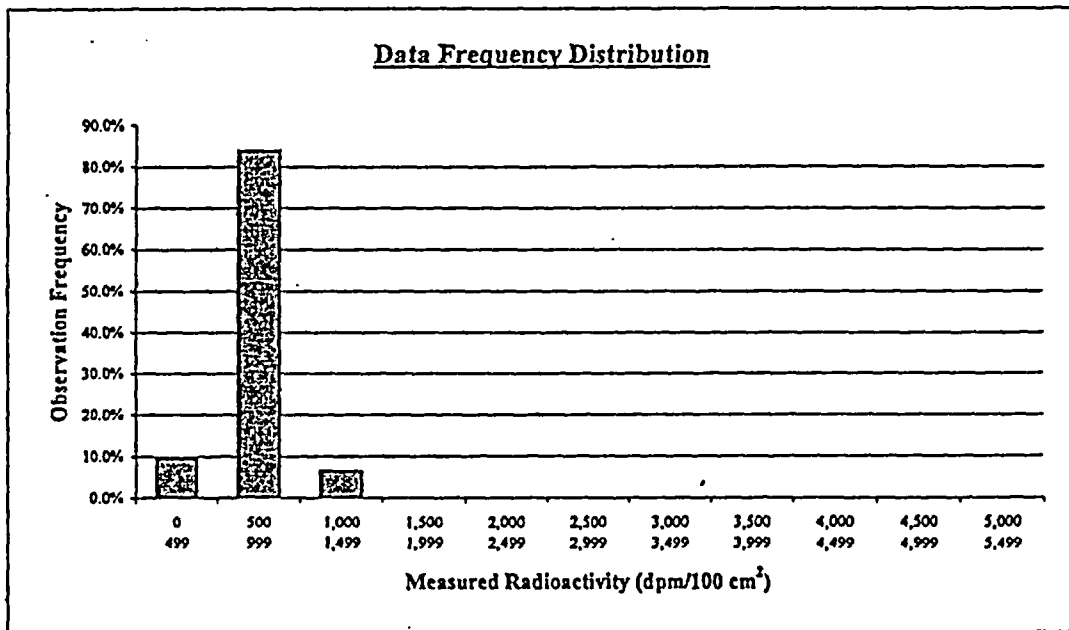
FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05089A
 Survey Unit Name: AB 77' Elevation -
 East Filter Valve Gallery Ceiling

Classification: Class 2
 Size (m²): 33

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | | Statistical Quantities | |
|--|------------------|---------------------|-------------|------------------------|-------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? | Range: | 663 |
| Range | 663 | 816 | Pass | Median: | 697 |
| Median | 0.063 | 0.500 | Pass | Mean: | 708 |
| Mean | 708 | 7,500 | Pass | Std Dev: | 163 |
| Std Dev | 163 | 1,500 | Pass | Minimum: | 447 |
| All data less than DCGL; Sign statistical test not required. | | | | Maximum: | 1,110 |
| | | | | DCGL: | 7,500 |



| Plot Parameters | |
|---------------------|-------|
| # of measurements: | 62 |
| # of intervals: | 11 |
| Interval increment: | 500 |
| Minimum: | 0 |
| Maximum: | 5,499 |

| Interval | High End | Low End | Number of Observations | Observation Frequency |
|----------|----------|---------|------------------------|-----------------------|
| 1 | 499 | 0 | 6 | 9.7% |
| 2 | 999 | 500 | 52 | 83.9% |
| 3 | 1,499 | 1,000 | 4 | 6.5% |
| 4 | 1,999 | 1,500 | 0 | 0.0% |
| 5 | 2,499 | 2,000 | 0 | 0.0% |
| 6 | 2,999 | 2,500 | 0 | 0.0% |
| 7 | 3,499 | 3,000 | 0 | 0.0% |
| 8 | 3,999 | 3,500 | 0 | 0.0% |
| 9 | 4,499 | 4,000 | 0 | 0.0% |
| 10 | 4,999 | 4,500 | 0 | 0.0% |
| 11 | 5,499 | 5,000 | 0 | 0.0% |
| Total: | | | 62 | 100% |

Comment:
 None.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05089A
Survey Unit Name: AB 77' Elevation –
East Filter Valve Gallery Ceiling

Classification: Class 2
Size (m²): 33

Judgmental and Miscellaneous Data

Measurement Type: Surface Scanning Beta
Measurement Units: dpm/100cm²
Minimum Value: 759

Scan Coverage (%): 30
Investigation Level: 7,500
Maximum Value: 2,335

Measurement Type: Removable Beta
Measurement Units: dpm/100cm²
Minimum Value: 49

Number of Measurements: 62
Investigation Level: 750
Maximum Value: 104

Discussion of Anomalous Measurement Data

Investigation Summary

No investigation required for this survey unit. No anomalous measurement data.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05089A

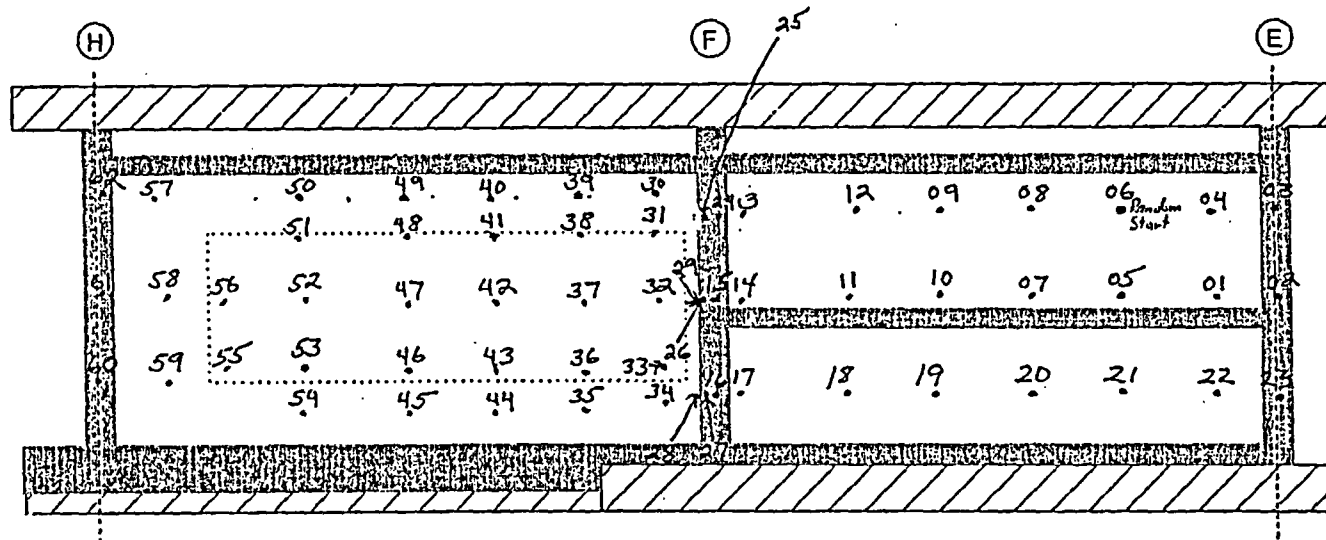
Survey Unit Name: AB 77' Elevation - East Filter Valve Gallery Ceiling

Classification: Class 2

Size (m²): 33

Static Measurement Location Map

FINAL SURVEY UNIT
S05089A
Static Measurement Locations



Data Collection Performed IAW RP 452 Rev. 9

David L. Baker / Brent A. Beahm 8-20-2004
Survey Technician Date

Lois Libal / Lori Libal 8-20-2004
Survey Technician Date

APPENDIX G

SURVEY UNIT SUMMARY REPORTS – AUXILIARY BUILDING

| <u>Survey Unit ID Code</u> | <u>Page(s)</u> |
|----------------------------|-------------------|
| S05093A | G-2 through G-5 |
| S05093B..... | G-6 through G-10 |
| S05093C..... | G-11 through G-16 |
| S05093D | G-17 through G-20 |
| S05093E..... | G-21 through G-26 |
| S05093F | G-27 through G-32 |
| S05093G | G-33 through G-40 |
| S05093H | G-41 through G-47 |
| S05093J..... | G-48 through G-51 |
| S05093K | G-52 through G-58 |
| S05104A | G-59 through G-62 |
| S05104B..... | G-63 through G-66 |
| S05104C..... | G-67 through G-70 |
| S05104E..... | G-71 through G-77 |
| S05105A | G-78 through G-81 |
| P62032A | G-82 through G-85 |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05093A
 Survey Unit Name: AB 93' Elevation -
 Load Center Area North Wall

Classification: Class 2
 Size (m²): 62

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|--------------------------|---------------|-------------------------|------------|-----|-----|
| 1 | 44 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 4.405e+002
 Maximum Value : 7.633e+002
 Range : 3.228e+002
 Median : 6.285e+002
 Std. Deviation : 6.937e+001
 Mean : 6.298e+002
 95% UCL : 6.474e+002

Measurement Values

| Location | Value | Location | Value | Location | Value |
|----------|------------|----------|------------|----------|------------|
| 000001 | 7.139e+002 | 000018 | 6.569e+002 | 000035 | 6.304e+002 |
| 000002 | 7.557e+002 | 000019 | 5.848e+002 | 000036 | 6.759e+002 |
| 000003 | 6.076e+002 | 000020 | 5.696e+002 | 000037 | 7.177e+002 |
| 000004 | 7.633e+002 | 000021 | 6.494e+002 | 000038 | 6.266e+002 |
| 000005 | 7.253e+002 | 000022 | 5.696e+002 | 000039 | 6.000e+002 |
| 000006 | 7.443e+002 | 000023 | 5.962e+002 | 000040 | 5.430e+002 |
| 000007 | 5.620e+002 | 000024 | 6.456e+002 | 000041 | 6.721e+002 |
| 000008 | 7.291e+002 | 000025 | 7.025e+002 | 000042 | 5.240e+002 |
| 000009 | 6.683e+002 | 000026 | 6.759e+002 | 000043 | 6.911e+002 |
| 000010 | 5.354e+002 | 000027 | 6.569e+002 | 000044 | 5.734e+002 |
| 000011 | 5.848e+002 | 000028 | 6.038e+002 | | |
| 000012 | 5.962e+002 | 000029 | 4.405e+002 | | |
| 000013 | 6.000e+002 | 000030 | 6.607e+002 | | |
| 000014 | 5.886e+002 | 000031 | 5.544e+002 | | |
| 000015 | 6.531e+002 | 000032 | 6.076e+002 | | |
| 000016 | 6.494e+002 | 000033 | 5.430e+002 | | |
| 000017 | 5.962e+002 | 000034 | 6.683e+002 | | |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05093A
 Survey Unit Name: AB 93' Elevation -
 Load Center Area North Wall

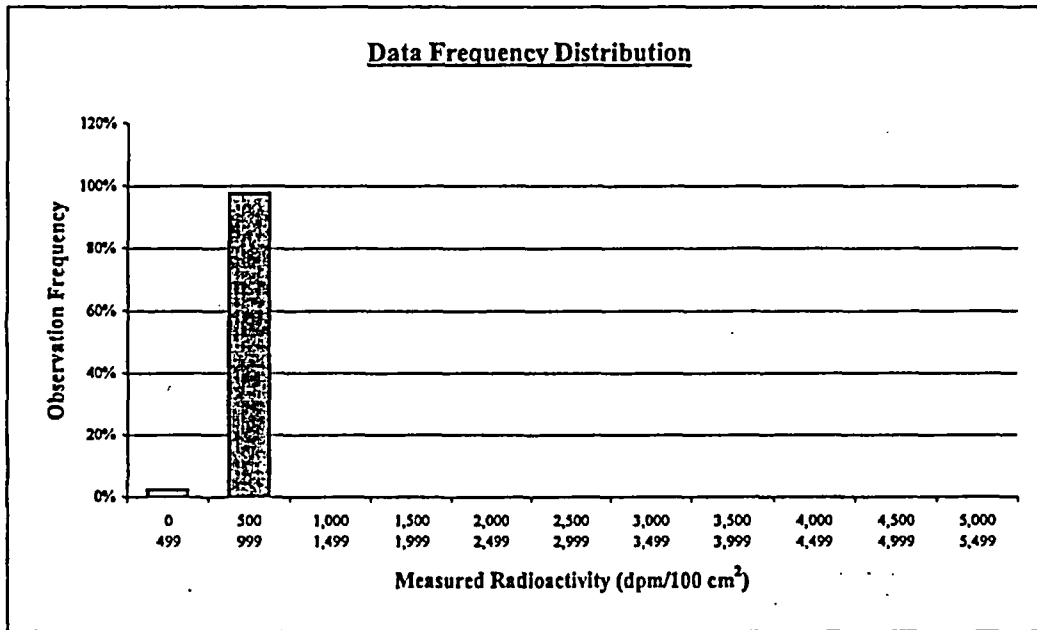
Classification: Class 2
 Size (m²): 62

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | |
|-------------------------|------------------|---------------------|-------------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? |
| Range | 322 | 346 | Pass |
| Median | 0.022 | 0.500 | Pass |
| Mean | 630 | 6,000 | Pass |
| Std Dev | 69 | 1,500 | Pass |

All data less than DCGL; Sign statistical test not required.

| Statistical Quantities | |
|------------------------|-------|
| Range: | 322 |
| Median: | 629 |
| Mean: | 630 |
| Std Dev: | 69 |
| Minimum: | 441 |
| Maximum: | 763 |
| DCGL: | 7,500 |



| Plot Parameters | |
|---------------------|-------|
| # of measurements: | 44 |
| # of intervals: | 11 |
| Interval increment: | 500 |
| Minimum: | 0 |
| Maximum: | 5,499 |

Comment:
 NONE

| Interval | High End | Low End | Number of Observations | Observation Frequency |
|----------|----------|---------|------------------------|-----------------------|
| 1 | 499 | 0 | 1 | 2% |
| 2 | 999 | 500 | 43 | 98% |
| 3 | 1,499 | 1,000 | 0 | 0% |
| 4 | 1,999 | 1,500 | 0 | 0% |
| 5 | 2,499 | 2,000 | 0 | 0% |
| 6 | 2,999 | 2,500 | 0 | 0% |
| 7 | 3,499 | 3,000 | 0 | 0% |
| 8 | 3,999 | 3,500 | 0 | 0% |
| 9 | 4,499 | 4,000 | 0 | 0% |
| 10 | 4,999 | 4,500 | 0 | 0% |
| 11 | 5,499 | 5,000 | 0 | 0% |
| Total: | | | 44 | 100% |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05093A
Survey Unit Name: AB 93' Elevation –
Load Center Area North Wall

Classification: Class 2
Size (m²): 62

Judgmental and Miscellaneous Data

Measurement Type: Surface Scanning Beta
Measurement Units: dpm/100cm²
Minimum Value: 844

Scan Coverage (%): 15
Investigation Level: 7,500
Maximum Value: 985

Measurement Type: Removable Beta
Measurement Units: dpm/100cm²
Minimum Value: 3

Number of Measurements: 44
Investigation Level: 750
Maximum Value: 21

Discussion of Anomalous Measurement Data

Investigation Summary

No investigation required for this survey unit. No anomalous measurement data.

FINAL SURVEY RESULTS SUMMARY

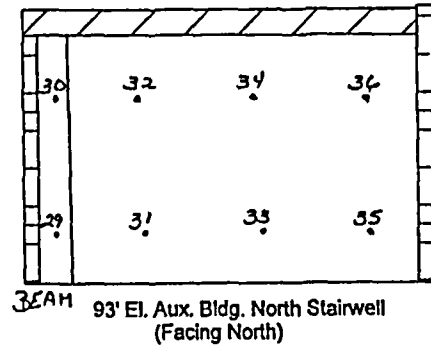
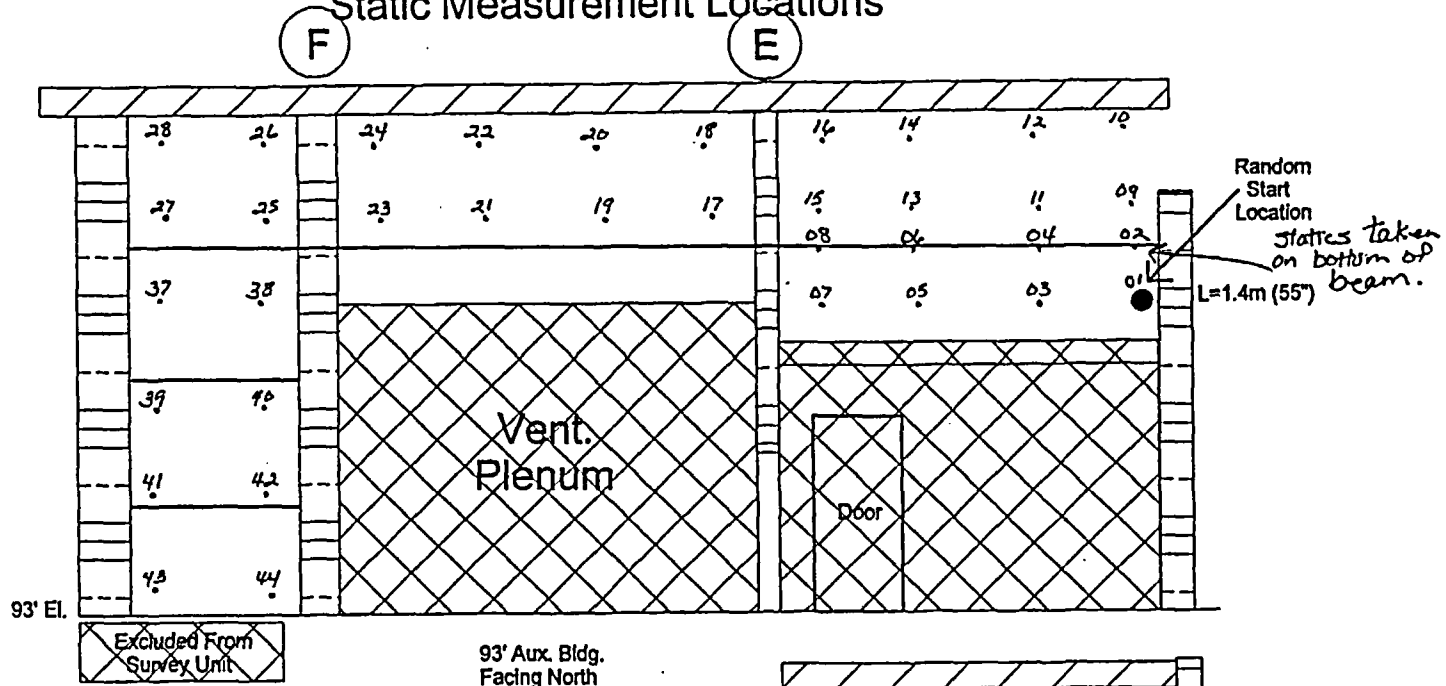
Survey Unit ID Code: S05093A

Survey Unit Name: AB 93' Elevation - Load Center Area North Wall

Classification: Class 2

Size (m²): 62

Static Measurement Location Map
Static Measurement Locations



Ron Keaton Ron Keaton 9-26-2002
Survey Technician Date

Loei Libal Loei Libal 9-26-2002
Survey Technician Date

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05093B

Classification: Class 1

Survey Unit Name: AB 93' Elevation -

Size (m²): 118

Containment Personnel Lock Floor and Lower Walls

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|-----------------------|------------|-------------------------|------------|-----|-----|
| 1 | 32 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 6.456e+002
 Maximum Value : 1.477e+003
 Range : 8.314e+002
 Median : 8.905e+002
 Std. Deviation : 2.963e+002
 Mean : 1.037e+003
 95% UCL : 1.125e+003

Measurement Values

| Location | Value | Location | Value |
|----------|------------|----------|------------|
| 000001 | 8.924e+002 | 000018 | 7.405e+002 |
| 000002 | 8.126e+002 | 000019 | 1.435e+003 |
| 000003 | 8.316e+002 | 000020 | 1.439e+003 |
| 000004 | 8.886e+002 | 000021 | 1.405e+003 |
| 000005 | 8.772e+002 | 000022 | 1.477e+003 |
| 000006 | 7.443e+002 | 000023 | 1.356e+003 |
| 000007 | 6.607e+002 | 000024 | 1.359e+003 |
| 000008 | 6.456e+002 | 000025 | 1.230e+003 |
| 000009 | 7.329e+002 | 000026 | 1.454e+003 |
| 000010 | 8.126e+002 | 000027 | 1.314e+003 |
| 000011 | 8.088e+002 | 000028 | 1.211e+003 |
| 000012 | 9.417e+002 | 000029 | 1.432e+003 |
| 000013 | 7.747e+002 | 000030 | 1.337e+003 |
| 000014 | 7.899e+002 | 000031 | 1.337e+003 |
| 000015 | 8.088e+002 | 000032 | 1.151e+003 |
| 000016 | 6.987e+002 | | |
| 000017 | 7.709e+002 | | |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S050793B

Classification: Class 1

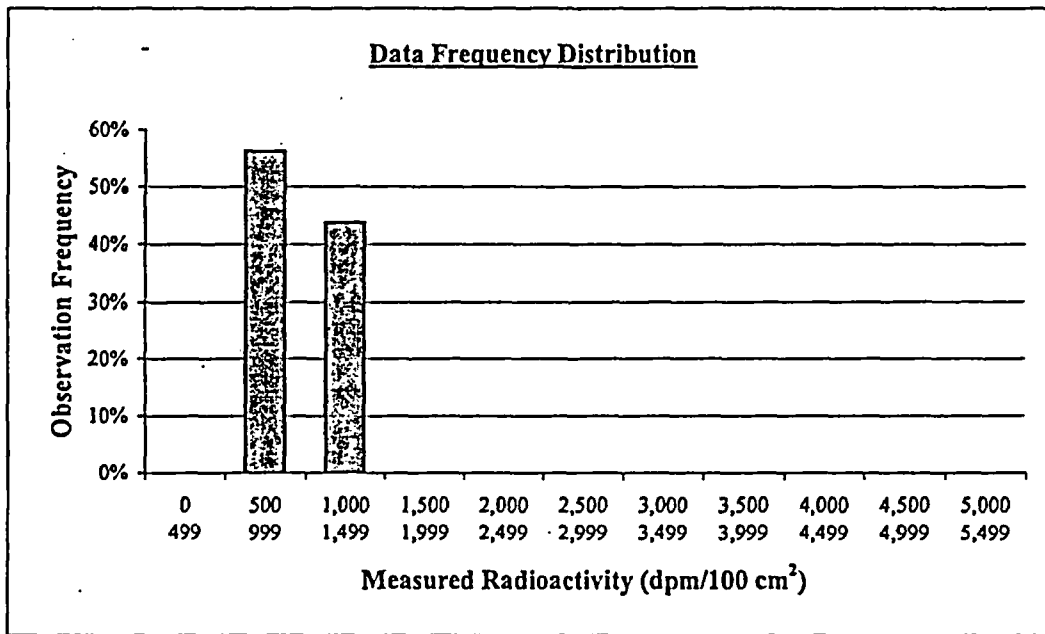
Survey Unit Name: AB 93' Elevation –

Size (m²): 118

Containment Personnel Lock Floor and Lower Walls

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | | Statistical Quantities | |
|--|------------------|---------------------|-------------|------------------------|-------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? | Range: | 831 |
| Range | 831 | 1,481 | Pass | Median: | 891 |
| Median | 0.493 | 0.500 | Pass | Mean: | 1,037 |
| Mean | 1,037 | 6,000 | Pass | Std Dev: | 296 |
| Std Dev | 296 | 1,500 | Pass | Minimum: | 646 |
| All data less than DCGL; Sign statistical test not required. | | | | Maximum: | 1,477 |
| | | | | DCGL: | 7,500 |



| Plot Parameters | Interval | High End | Low End | Number of Observations | Observation Frequency |
|---------------------|---------------|----------|---------|------------------------|-----------------------|
| # of measurements: | 1 | 499 | 0 | 0 | 0% |
| # of intervals: | 2 | 999 | 500 | 18 | 56% |
| Interval increment: | 3 | 1,499 | 1,000 | 14 | 44% |
| Minimum: | 4 | 1,999 | 1,500 | 0 | 0% |
| Maximum: | 5 | 2,499 | 2,000 | 0 | 0% |
| | 6 | 2,999 | 2,500 | 0 | 0% |
| | 7 | 3,499 | 3,000 | 0 | 0% |
| | 8 | 3,999 | 3,500 | 0 | 0% |
| | 9 | 4,499 | 4,000 | 0 | 0% |
| | 10 | 4,999 | 4,500 | 0 | 0% |
| | 11 | 5,499 | 5,000 | 0 | 0% |
| | Total: | | | 32 | 100% |

Comment:
NONE

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S050793B **Classification:** Class 1
Survey Unit Name: AB 93' Elevation – **Size (m²):** 118
Containment Personnel Lock Floor and Lower Walls

Judgmental and Miscellaneous Data

Measurement Type: Surface Scanning Beta **Scan Coverage (%):** 100
Measurement Units: dpm/100cm² **Investigation Level:** 7,500
Minimum Value: 858 **Maximum Value:** 10,100

Measurement Type: Removable Beta **Number of Measurements:** 32
Measurement Units: dpm/100cm² **Investigation Level:** 750
Minimum Value: 2 **Maximum Value:** 16

Discussion of Anomalous Measurement Data

Investigation Summary

Reason for Investigation: Two scan measurements exceeded the investigation level.

Elevated Measurement Comparison (EMC):

| | |
|---|------------------------|
| DCGL (Investigation Level): | 7,500 |
| Measurement Units: | dpm/100cm ² |
| Maximum Value: | 10,103 |
| Size of Area Exceeding DCGL (m²): | 0.014 |
| Size of Survey Unit (m²): | 118 |
| Survey Unit Area >DCGL (%): | 0.01 |
| EMC Value: | 36,750 |

Action Taken: Corrected measurement values for scan locations 112 & 119 per guidance in memo FS-018-03. Replaced original scan results in SDMS with the corrected results. Applied EMC data processing to corrected scan location 119 that remains elevated.

Basis for Action Taken: Technical basis memorandum FS-018-03 provides guidance for correcting SDMS determined scan results for locations that exceed the investigation level by subtracting instrument background from the field results.

FINAL SURVEY RESULTS SUMMARY

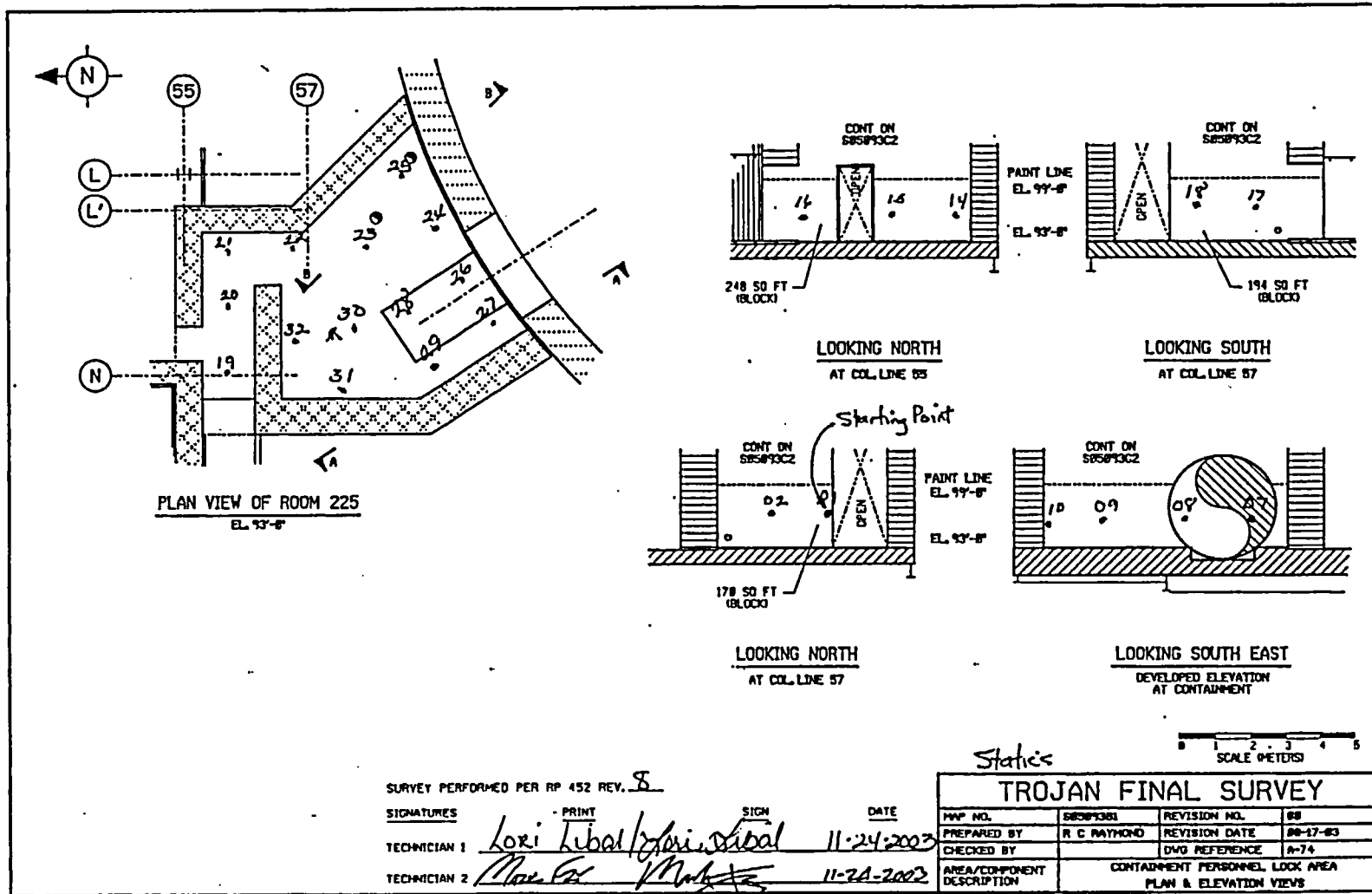
Survey Unit ID Code: S05093B

Survey Unit Name: AB 93' Elevation - Containment Personnel Lock Floor and Lower Walls

Classification: Class 1

Size (m²): 118

Static Measurement Location Map



FINAL SURVEY RESULTS SUMMARY

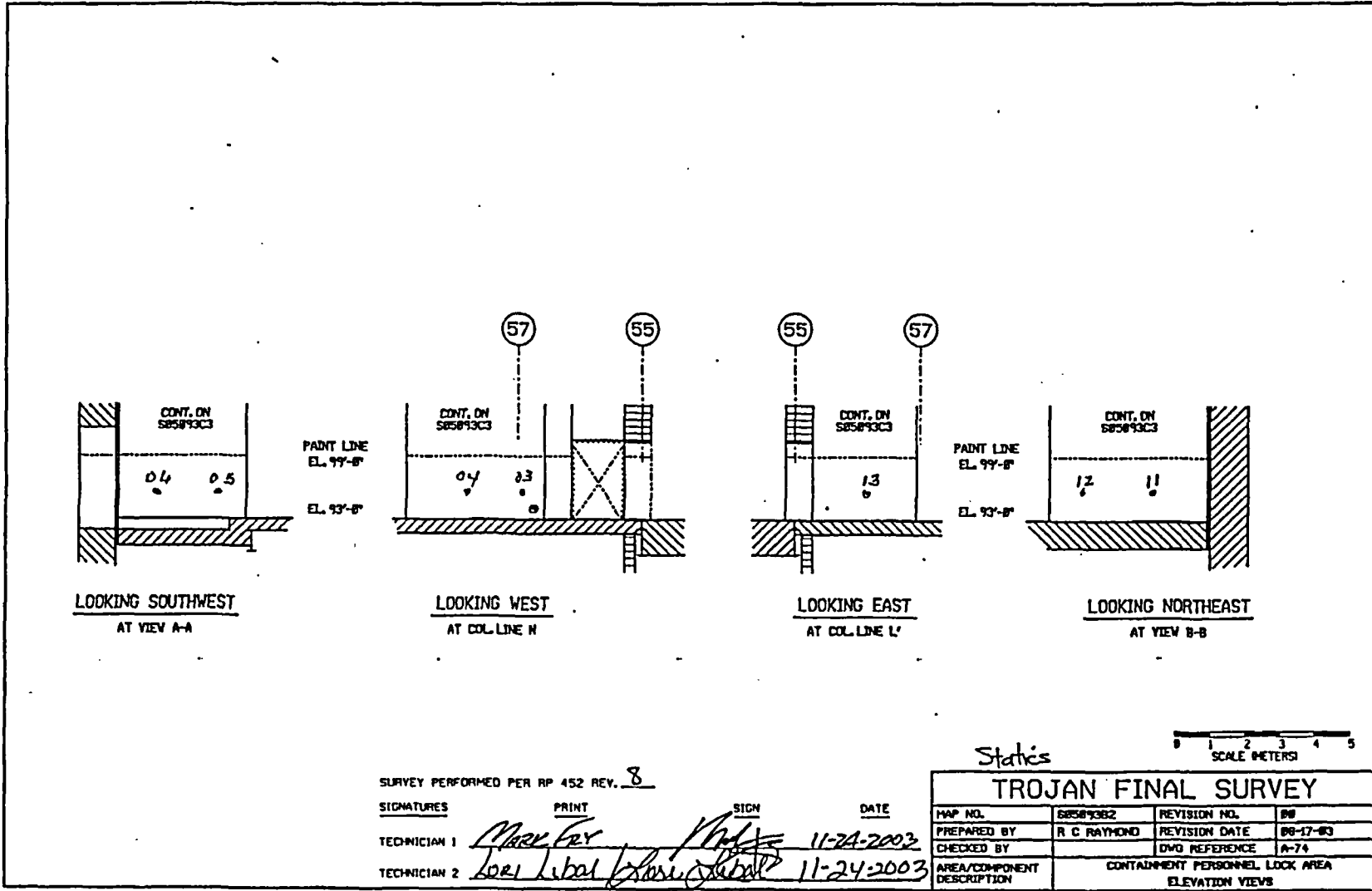
Survey Unit ID Code: S05093B

Survey Unit Name: AB 93' Elevation - Containment Personnel Lock Floor and Lower Walls

Classification: Class 1

Size (m²): 118

Static Measurement Location Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05093C

Classification: Class 2

Survey Unit Name: AB 93' Elevation -

Size (m²): 323

Containment Personnel Lock Upper Walls and Ceiling

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|-----------------------|------------|-------------------------|------------|-----|-----|
| 1 | - 30 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 8.371e+002
 Maximum Value : 1.647e+003
 Range : 8.099e+002
 Median : 1.295e+003
 Std. Deviation : 2.415e+002
 Mean : 1.211e+003
 95% UCL : 1.286e+003

Measurement Values

| Location | Value | Location | Value |
|----------|------------|----------|------------|
| 000001 | 9.082e+002 | 000018 | 1.319e+003 |
| 000002 | 9.161e+002 | 000019 | 1.331e+003 |
| 000003 | 1.240e+003 | 000020 | 1.287e+003 |
| 000004 | 8.371e+002 | 000021 | 1.303e+003 |
| 000005 | 9.240e+002 | 000022 | 1.181e+003 |
| 000006 | 8.529e+002 | 000023 | 1.433e+003 |
| 000007 | 1.370e+003 | 000024 | 1.398e+003 |
| 000008 | 8.766e+002 | 000025 | 1.335e+003 |
| 000009 | 1.323e+003 | 000026 | 1.224e+003 |
| 000010 | 9.437e+002 | 000027 | 1.481e+003 |
| 000011 | 8.884e+002 | 000028 | 1.481e+003 |
| 000012 | 1.354e+003 | 000029 | 1.390e+003 |
| 000013 | 1.058e+003 | 000030 | 1.240e+003 |
| 000014 | 8.766e+002 | | |
| 000015 | 1.611e+003 | | |
| 000016 | 1.647e+003 | | |
| 000017 | 1.315e+003 | | |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05093C

Classification: Class 2

Survey Unit Name: AB 93' Elevation -

Size (m²): 323

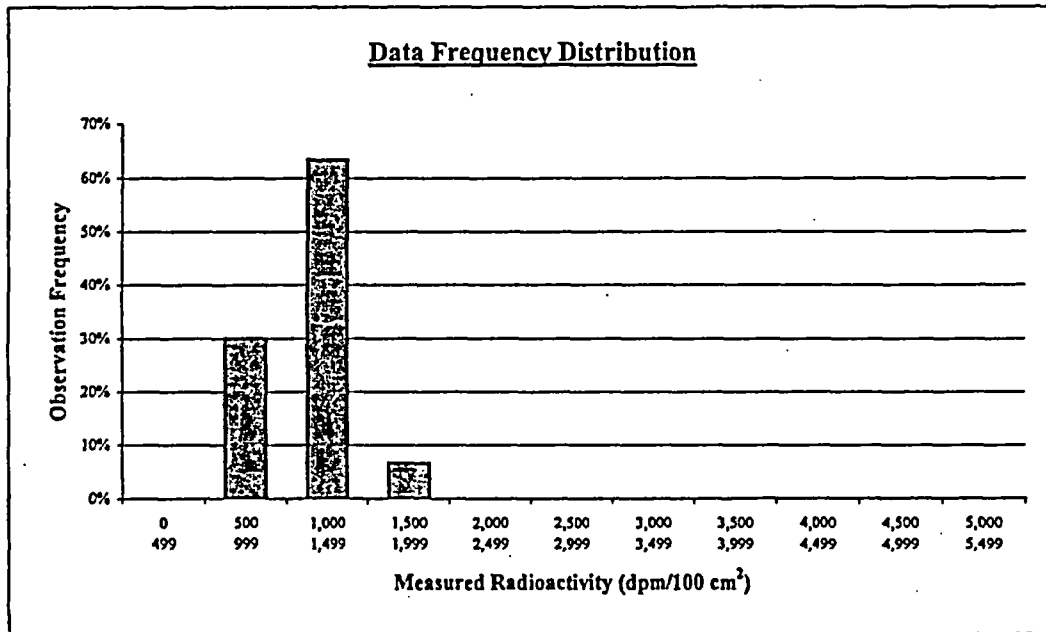
Containment Personnel Lock Upper Walls and Ceiling

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | |
|-------------------------|------------------|---------------------|-------------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? |
| Range | 810 | 1,207 | Pass |
| Median | 0.346 | 0.500 | Pass |
| Mean | 1,211 | 6,000 | Pass |
| Std Dev | 241 | 1,500 | Pass |

| Statistical Quantities | |
|------------------------|-------|
| Range: | 810 |
| Median: | 1,295 |
| Mean: | 1,211 |
| Std Dev: | 241 |
| Minimum: | 837 |
| Maximum: | 1,647 |
| DCGL: | 7,500 |

All data less than DCGL; Sign statistical test not required.



| Plot Parameters | |
|---------------------|-------|
| # of measurements: | 30 |
| # of intervals: | 11 |
| Interval increment: | 500 |
| Minimum: | 0 |
| Maximum: | 5,499 |

| Interval | High End | Low End | Number of Observations | Observation Frequency |
|----------|----------|---------|------------------------|-----------------------|
| 1 | 499 | 0 | 0 | 0% |
| 2 | 999 | 500 | 9 | 30% |
| 3 | 1,499 | 1,000 | 19 | 63% |
| 4 | 1,999 | 1,500 | 2 | 7% |
| 5 | 2,499 | 2,000 | 0 | 0% |
| 6 | 2,999 | 2,500 | 0 | 0% |
| 7 | 3,499 | 3,000 | 0 | 0% |
| 8 | 3,999 | 3,500 | 0 | 0% |
| 9 | 4,499 | 4,000 | 0 | 0% |
| 10 | 4,999 | 4,500 | 0 | 0% |
| 11 | 5,499 | 5,000 | 0 | 0% |
| Total: | | | 30 | 100% |

Comment:
NONE

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05093C

Classification: Class 2

Survey Unit Name: AB 93' Elevation –

Size (m²): 323

Containment Personnel Lock Upper Walls and Ceiling

Judgmental and Miscellaneous Data

Measurement Type: Surface Scanning Beta

Scan Coverage (%): 15

Measurement Units: dpm/100cm²

Investigation Level: 7,500

Minimum Value: 1,059

Maximum Value: 7,378

Measurement Type: Removable Beta

Number of Measurements: 30

Measurement Units: dpm/100cm²

Investigation Level: 750

Minimum Value: 3

Maximum Value: 15

Discussion of Anomalous Measurement Data

Investigation Summary

No investigation required for this survey unit. No anomalous measurement data.

FINAL SURVEY RESULTS SUMMARY

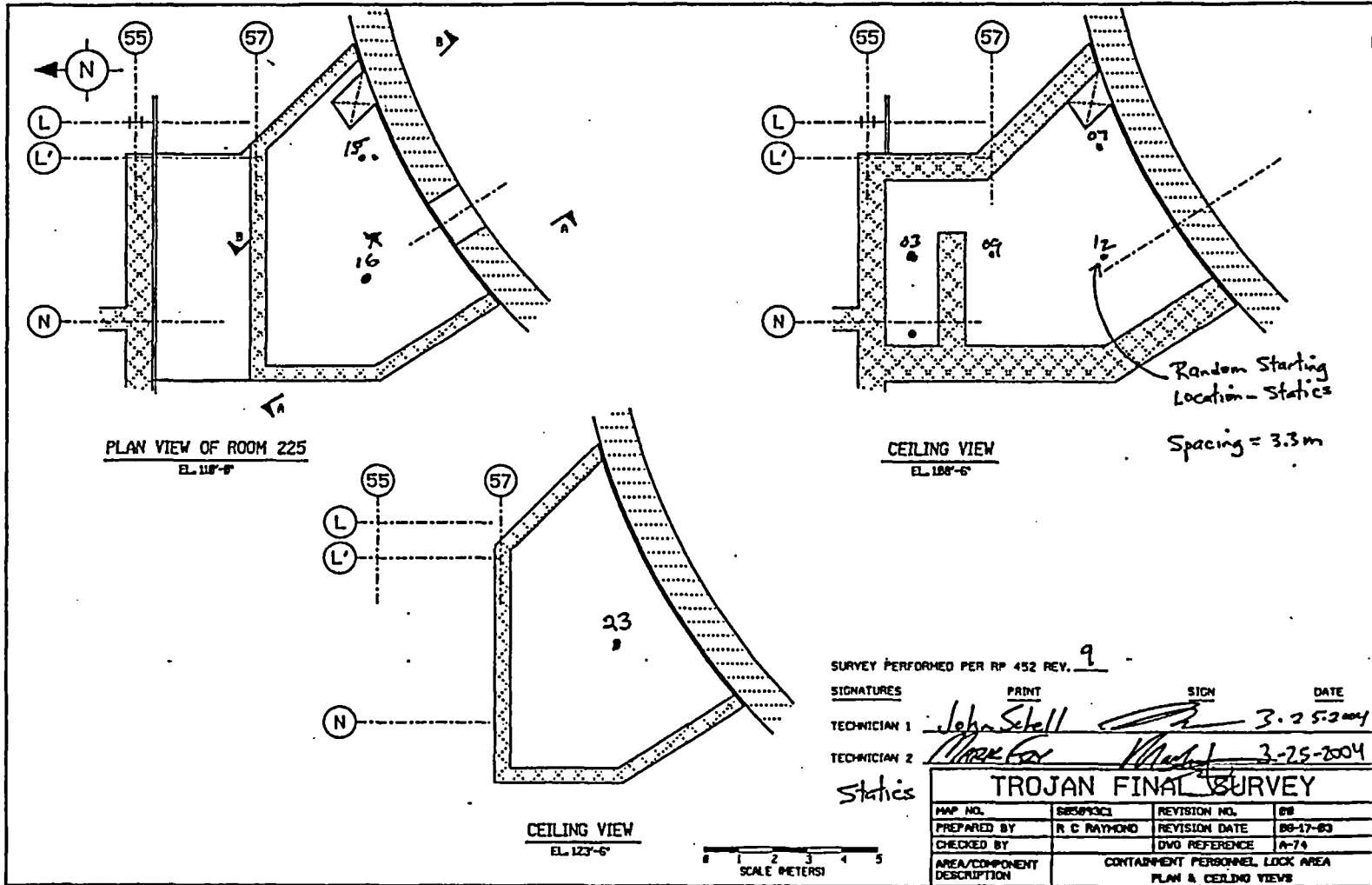
Survey Unit ID Code: S05093C

Survey Unit Name: AB 93' Elevation - Containment Personnel Lock Upper Walls and Ceiling

Classification: Class 2

Size (m²): 323

Static Measurement Location Map



FINAL SURVEY RESULTS SUMMARY

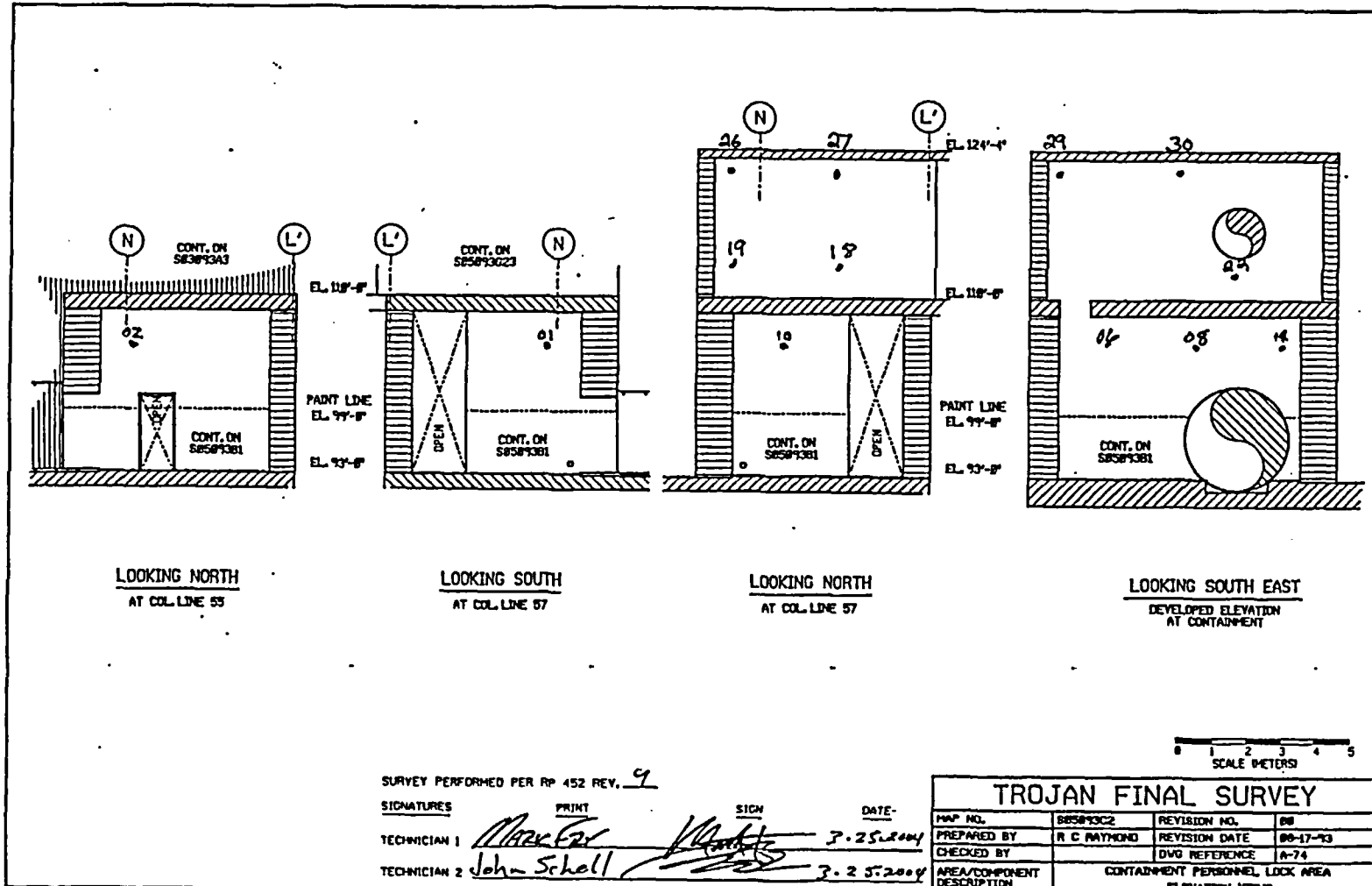
Survey Unit ID Code: S05093C

Survey Unit Name: AB 93' Elevation - Containment Personnel Lock Upper Walls and Ceiling

Classification: Class 2

Size (m²): 323

Static Measurement Location Map



SURVEY PERFORMED PER RP 452 REV. 9

SIGNATURES PRINT SIGN DATE-
 TECHNICIAN 1 *Mark Ezy* *Mark Ezy* *Mark Ezy* 3.25.2004
 TECHNICIAN 2 *John Schell* *John Schell* *John Schell* 3.25.2004

| TROJAN FINAL SURVEY | | | |
|----------------------------|---|---------------|----------|
| MAP NO. | S05093C2 | REVISION NO. | 08 |
| PREPARED BY | R C RAYMOND | REVISION DATE | 08-17-93 |
| CHECKED BY | | DWG REFERENCE | A-74 |
| AREA/COMPONENT DESCRIPTION | CONTAINMENT PERSONNEL LOCK AREA ELEVATION VIEWS | | |

FILE NAME: S05093C2

FINAL SURVEY RESULTS SUMMARY

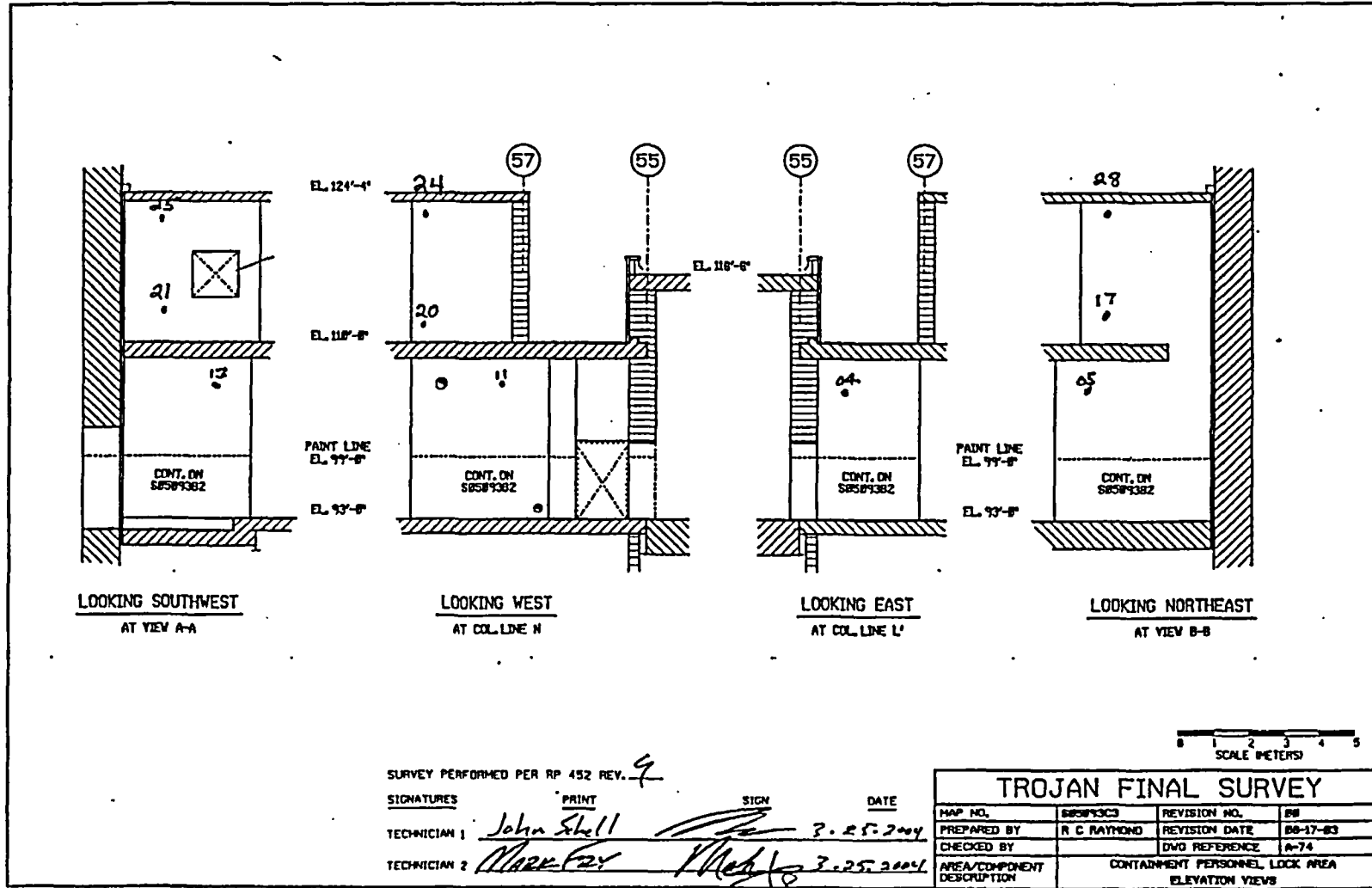
Survey Unit ID Code: S05093C

Survey Unit Name: AB 93' Elevation - Containment Personnel Lock Upper Walls and Ceiling

Classification: Class 2

Size (m²): 323

Static Measurement Location Map



SURVEY PERFORMED PER RP 452 REV. 9

SIGNATURES PRINT SIGN DATE

TECHNICIAN 1 John Shell [Signature] 3.25.2004

TECHNICIAN 2 Mark Fox [Signature] 3.25.2004

| TROJAN FINAL SURVEY | | | |
|----------------------------|---|---------------|----------|
| MAP NO. | S05093C3 | REVISION NO. | 08 |
| PREPARED BY | R C RAYMOND | REVISION DATE | 06-17-03 |
| CHECKED BY | | DWG REFERENCE | A-74 |
| AREA/COMPONENT DESCRIPTION | CONTAINMENT PERSONNEL LOCK AREA ELEVATION VIEWS | | |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05093D

Classification: Class 1

Survey Unit Name: AB 93' Elevation -

Size (m²): 20

Auxiliary/Fuel Building Exhaust Fan Room North Lower Wall

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|--------------------------|---------------|-------------------------|------------|-----|-----|
| 1 | 34 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 8.433e+002
 Maximum Value : 1.217e+003
 Range : 3.737e+002
 Median : 1.007e+003
 Std. Deviation : 1.015e+002
 Mean : 1.026e+003
 95% UCL : 1.055e+003

Measurement Values

| Location | Value | Location | Value |
|----------|------------|----------|------------|
| 000001 | 1.004e+003 | 000018 | 1.007e+003 |
| 000002 | 1.045e+003 | 000019 | 9.921e+002 |
| 000003 | 8.661e+002 | 000020 | 9.119e+002 |
| 000004 | 8.852e+002 | 000021 | 1.023e+003 |
| 000005 | 9.501e+002 | 000022 | 1.007e+003 |
| 000006 | 9.463e+002 | 000023 | 1.023e+003 |
| 000007 | 1.004e+003 | 000024 | 1.206e+003 |
| 000008 | 1.114e+003 | 000025 | 1.160e+003 |
| 000009 | 8.433e+002 | 000026 | 1.076e+003 |
| 000010 | 9.348e+002 | 000027 | 1.168e+003 |
| 000011 | 9.654e+002 | 000028 | 1.213e+003 |
| 000012 | 9.768e+002 | 000029 | 1.217e+003 |
| 000013 | 9.272e+002 | 000030 | 1.198e+003 |
| 000014 | 1.061e+003 | 000031 | 1.110e+003 |
| 000015 | 9.768e+002 | 000032 | 9.501e+002 |
| 000016 | 9.463e+002 | 000033 | 1.038e+003 |
| 000017 | 1.087e+003 | 000034 | 1.042e+003 |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05093D

Classification: Class 1

Survey Unit Name: AB 93' Elevation –

Size (m²): 20

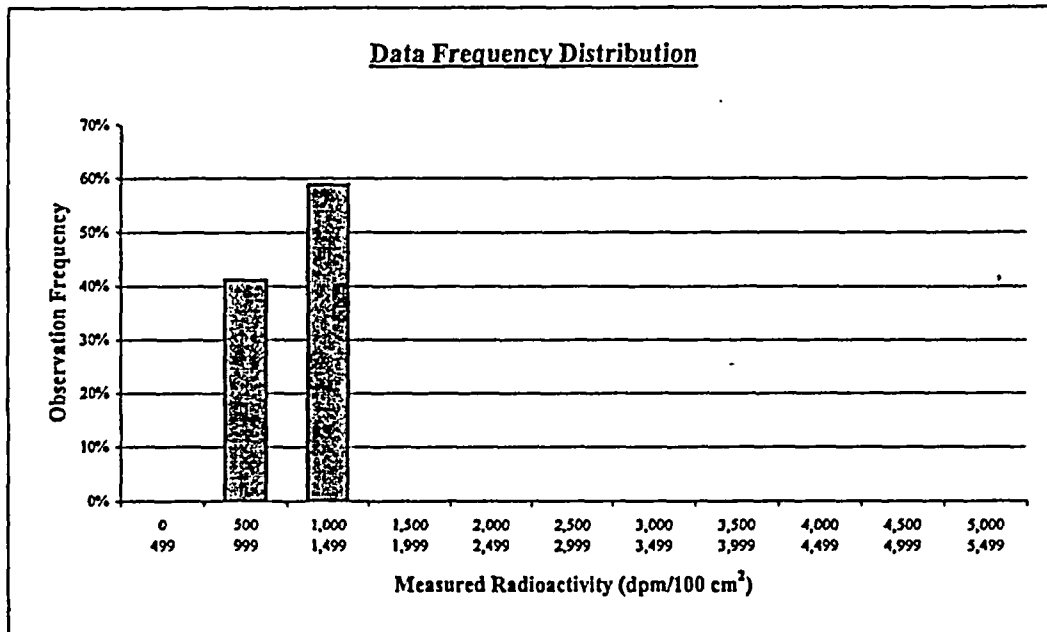
Auxiliary/Fuel Building Exhaust Fan Room North Lower Wall

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | |
|-------------------------|------------------|---------------------|-------------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? |
| Range | 374 | 508 | Pass |
| Median | 0.184 | 0.500 | Pass |
| Mean | 1,026 | 6,000 | Pass |
| Std Dev | 102 | 1,500 | Pass |

| Statistical Quantities | |
|------------------------|-------|
| Range: | 374 |
| Median: | 1,007 |
| Mean: | 1,026 |
| Std Dev: | 102 |
| Minimum: | 843 |
| Maximum: | 1,217 |
| DCGL: | 7,500 |

All data less than DCGL; Sign statistical test not required.



| Plot Parameters | |
|---------------------|-------|
| # of measurements: | 34 |
| # of intervals: | 11 |
| Interval increment: | 500 |
| Minimum: | 0 |
| Maximum: | 5,499 |

Comment:
None.

| Interval | High End | Low End | Number of Observations | Observation Frequency |
|----------|----------|---------|------------------------|-----------------------|
| 1 | 499 | 0 | 0 | 0% |
| 2 | 999 | 500 | 14 | 41% |
| 3 | 1,499 | 1,000 | 20 | 59% |
| 4 | 1,999 | 1,500 | 0 | 0% |
| 5 | 2,499 | 2,000 | 0 | 0% |
| 6 | 2,999 | 2,500 | 0 | 0% |
| 7 | 3,499 | 3,000 | 0 | 0% |
| 8 | 3,999 | 3,500 | 0 | 0% |
| 9 | 4,499 | 4,000 | 0 | 0% |
| 10 | 4,999 | 4,500 | 0 | 0% |
| 11 | 5,499 | 5,000 | 0 | 0% |
| Total: | | | 34 | 100% |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05093D **Classification:** Class 1
Survey Unit Name: AB 93' Elevation – **Size (m²):** 20
Auxiliary/Fuel Building Exhaust Fan Room North Lower Wall

Judgmental and Miscellaneous Data

| | |
|--|-----------------------------------|
| Measurement Type: Surface Scanning Beta | Scan Coverage (%): 100 |
| Measurement Units: dpm/100cm ² | Investigation Level: 7,500 |
| Minimum Value: 1,141 | Maximum Value: 2,077 |
| Measurement Type: Removable Beta | Number of Measurements: 34 |
| Measurement Units: dpm/100cm ² | Investigation Level: 750 |
| Minimum Value: 36 | Maximum Value: 126 |

Discussion of Anomalous Measurement Data

Investigation Summary

No investigation required for this survey unit. No anomalous measurement data.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05093D

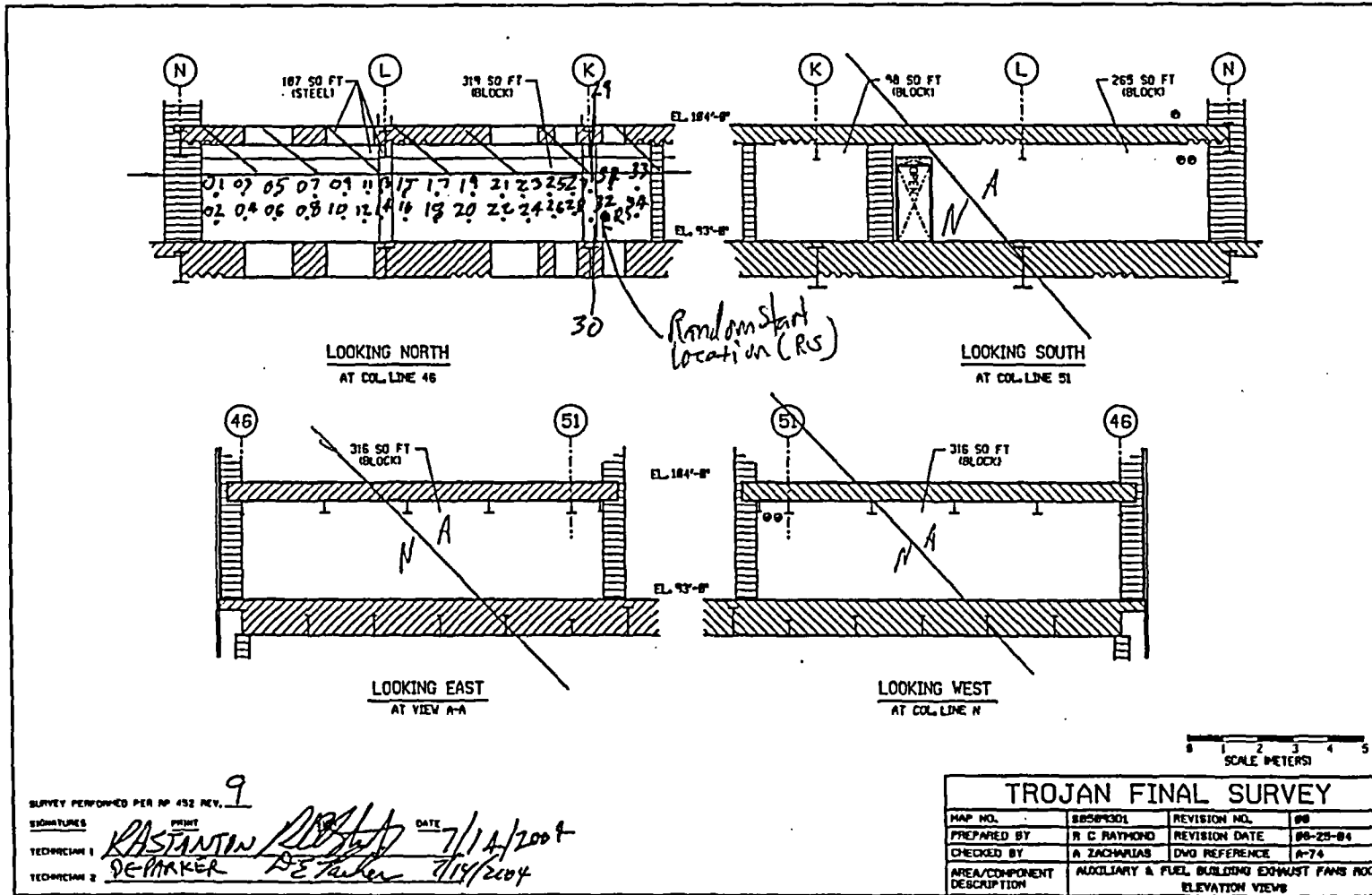
Survey Unit Name: AB 93' Elevation -

Auxiliary/Fuel Building Exhaust Fan Room North Lower Wall

Classification: Class 1

Size (m²): 20

Static Measurement Location Map



SURVEY PERFORMED PER NO. 452 REV. 9
 SIGNATURES: *R. Stanton* DATE: 7/14/2004
 TECHNICIAN 1: *DE-MAKER*
 TECHNICIAN 2: *DE-MAKER*

| TROJAN FINAL SURVEY | | | |
|----------------------------|---|---------------|----------|
| MAP NO. | S05093D1 | REVISION NO. | 00 |
| PREPARED BY | R. C. RAYMOND | REVISION DATE | 08-25-04 |
| CHECKED BY | A. ZACHARIAS | DWG REFERENCE | A-74 |
| AREA/COMPONENT DESCRIPTION | AUXILIARY & FUEL BUILDING EXHAUST FANS ROOM ELEVATION VIEWS | | |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05093E

Classification: Class 2

Survey Unit Name: AB 93' Elevation -

Size (m²): 404

Auxiliary/Fuel Building Exhaust Fan Room

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|-----------------------|------------|-------------------------|------------|-----|-----|
| 1 | 30 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 7.195e+002
 Maximum Value : 1.205e+003
 Range : 4.855e+002
 Median : 9.643e+002
 Std. Deviation : 1.419e+002
 Mean : 9.803e+002
 95% UCL : 1.024e+003

Measurement Values

| Location | Value | Location | Value |
|----------|------------|----------|------------|
| 000001 | 9.309e+002 | 000018 | 1.198e+003 |
| 000002 | 1.135e+003 | 000019 | 1.046e+003 |
| 000003 | 9.346e+002 | 000020 | 8.975e+002 |
| 000004 | 1.146e+003 | 000021 | 1.057e+003 |
| 000005 | 9.123e+002 | 000022 | 1.176e+003 |
| 000006 | 9.160e+002 | 000023 | 8.344e+002 |
| 000007 | 1.031e+003 | 000024 | 7.529e+002 |
| 000008 | 1.168e+003 | 000025 | 7.862e+002 |
| 000009 | 9.717e+002 | 000026 | 9.309e+002 |
| 000010 | 1.205e+003 | 000027 | 1.061e+003 |
| 000011 | 1.064e+003 | 000028 | 9.568e+002 |
| 000012 | 8.159e+002 | 000029 | 9.791e+002 |
| 000013 | 1.042e+003 | 000030 | 8.456e+002 |
| 000014 | 7.899e+002 | | |
| 000015 | 7.195e+002 | | |
| 000016 | 9.160e+002 | | |
| 000017 | 1.190e+003 | | |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05093E

Classification: Class 2

Survey Unit Name: AB 93' Elevation –

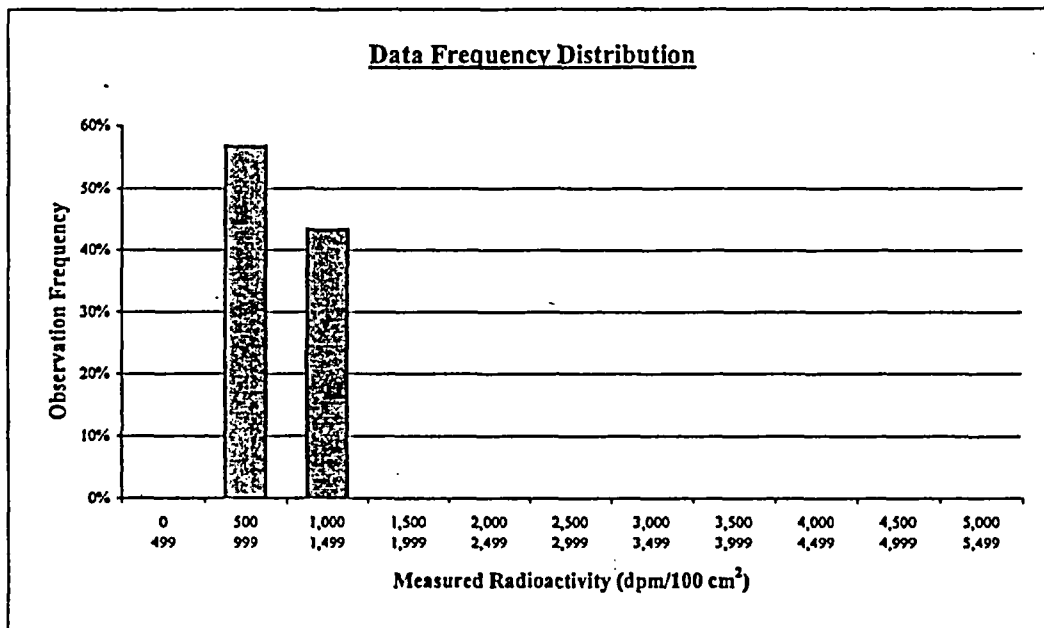
Size (m²): 404

Auxiliary/Fuel Building Exhaust Fan Room

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | | Statistical Quantities | |
|-------------------------|------------------|---------------------|-------------|------------------------|-------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? | | |
| Range | 485 | 709 | Pass | Range: | 485 |
| Median | 0.112 | 0.500 | Pass | Median: | 965 |
| Mean | 980 | 6,000 | Pass | Mean: | 980 |
| Std Dev | 142 | 1,500 | Pass | Std Dev: | 142 |
| | | | | Minimum: | 720 |
| | | | | Maximum: | 1,205 |
| | | | | DCGL: | 7,500 |

All data less than DCGL; Sign statistical test not required.



| Plot Parameters | | Interval | High End | Low End | Number of Observations | Observation Frequency |
|---------------------|-------|----------|----------|---------|------------------------|-----------------------|
| # of measurements: | 30 | 1 | 499 | 0 | 0 | 0% |
| # of intervals: | 11 | 2 | 999 | 500 | 17 | 57% |
| Interval increment: | 500 | 3 | 1,499 | 1,000 | 13 | 43% |
| Minimum: | 0 | 4 | 1,999 | 1,500 | 0 | 0% |
| Maximum: | 5,499 | 5 | 2,499 | 2,000 | 0 | 0% |
| | | 6 | 2,999 | 2,500 | 0 | 0% |
| | | 7 | 3,499 | 3,000 | 0 | 0% |
| | | 8 | 3,999 | 3,500 | 0 | 0% |
| | | 9 | 4,499 | 4,000 | 0 | 0% |
| | | 10 | 4,999 | 4,500 | 0 | 0% |
| | | 11 | 5,499 | 5,000 | 0 | 0% |
| | | Total: | | | 30 | 100% |

Comment:
None.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05093E

Classification: Class 2

Survey Unit Name: AB 93' Elevation -
Auxiliary/Fuel Building Exhaust Fan Room

Size (m²): 404

Judgmental and Miscellaneous Data

Measurement Type: Surface Scanning Beta

Scan Coverage (%): 25

Measurement Units: dpm/100cm²

Investigation Level: 7,500

Minimum Value: 1,044

Maximum Value: 2,887

Measurement Type: Removable Beta

Number of Measurements: 30

Measurement Units: dpm/100cm²

Investigation Level: 750

Minimum Value: 36

Maximum Value: 79

Discussion of Anomalous Measurement Data

Investigation Summary

No investigation required for this survey unit. No anomalous measurement data.

FINAL SURVEY RESULTS SUMMARY

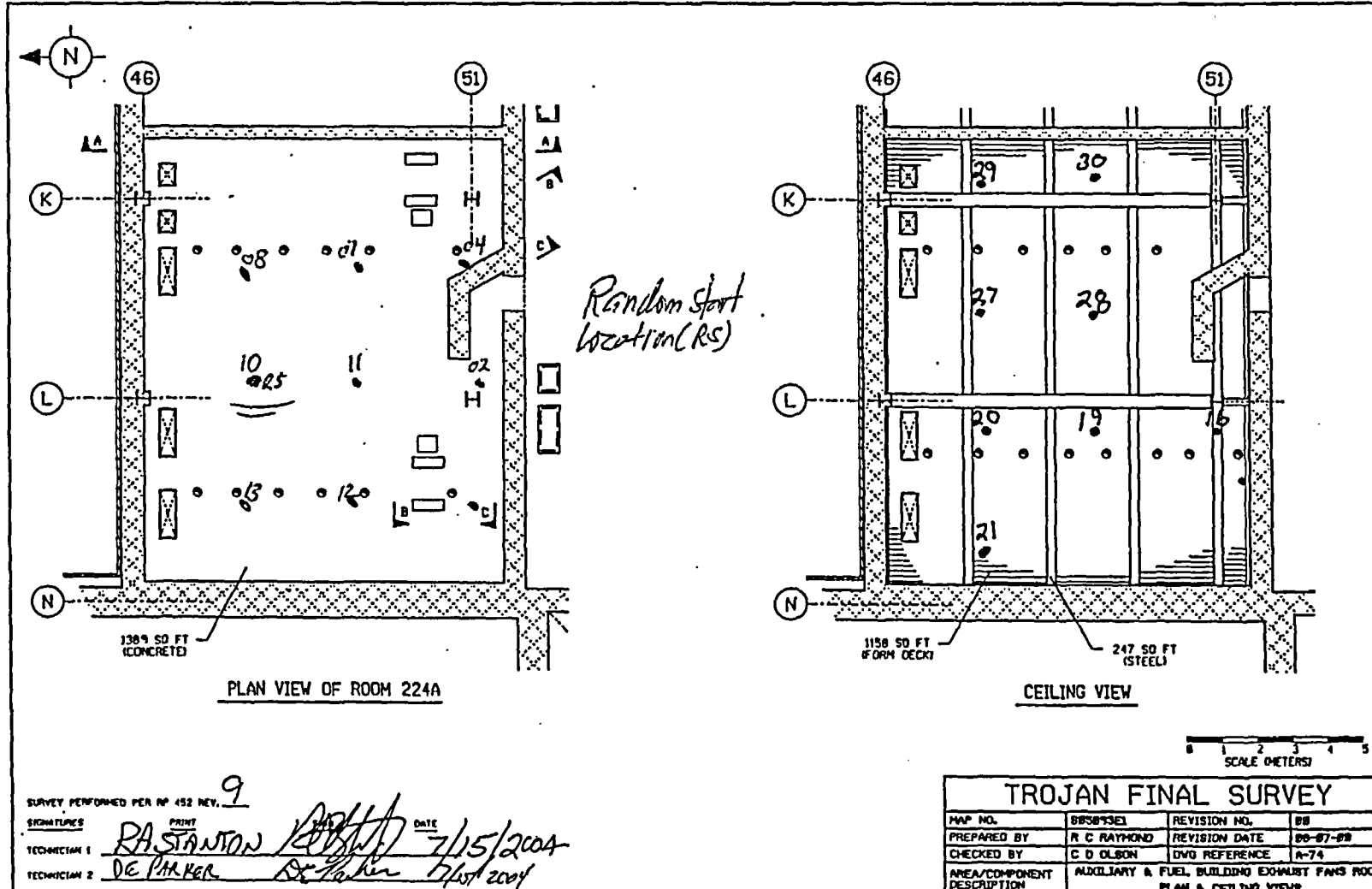
Survey Unit ID Code: S05093E

Survey Unit Name: AB 93' Elevation - Auxiliary/Fuel Building Exhaust Fan Room

Classification: Class 2

Size (m²): 404

Static Measurement Location Map



FINAL SURVEY RESULTS SUMMARY

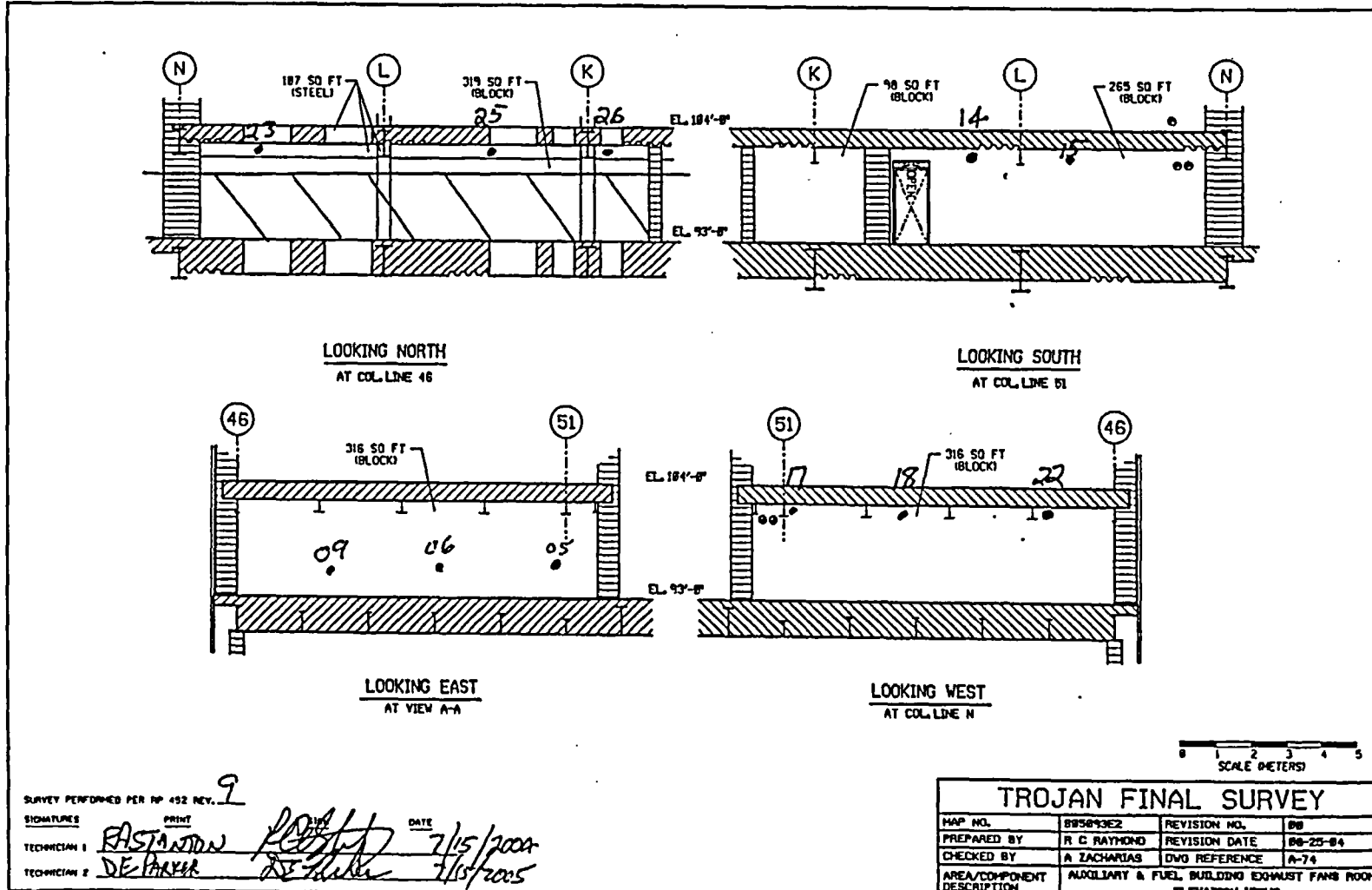
Survey Unit ID Code: S05093E

Classification: Class 2

Survey Unit Name: AB 93' Elevation - Auxiliary/Fuel Building Exhaust Fan Room

Size (m²): 404

Static Measurement Location Map



FINAL SURVEY RESULTS SUMMARY

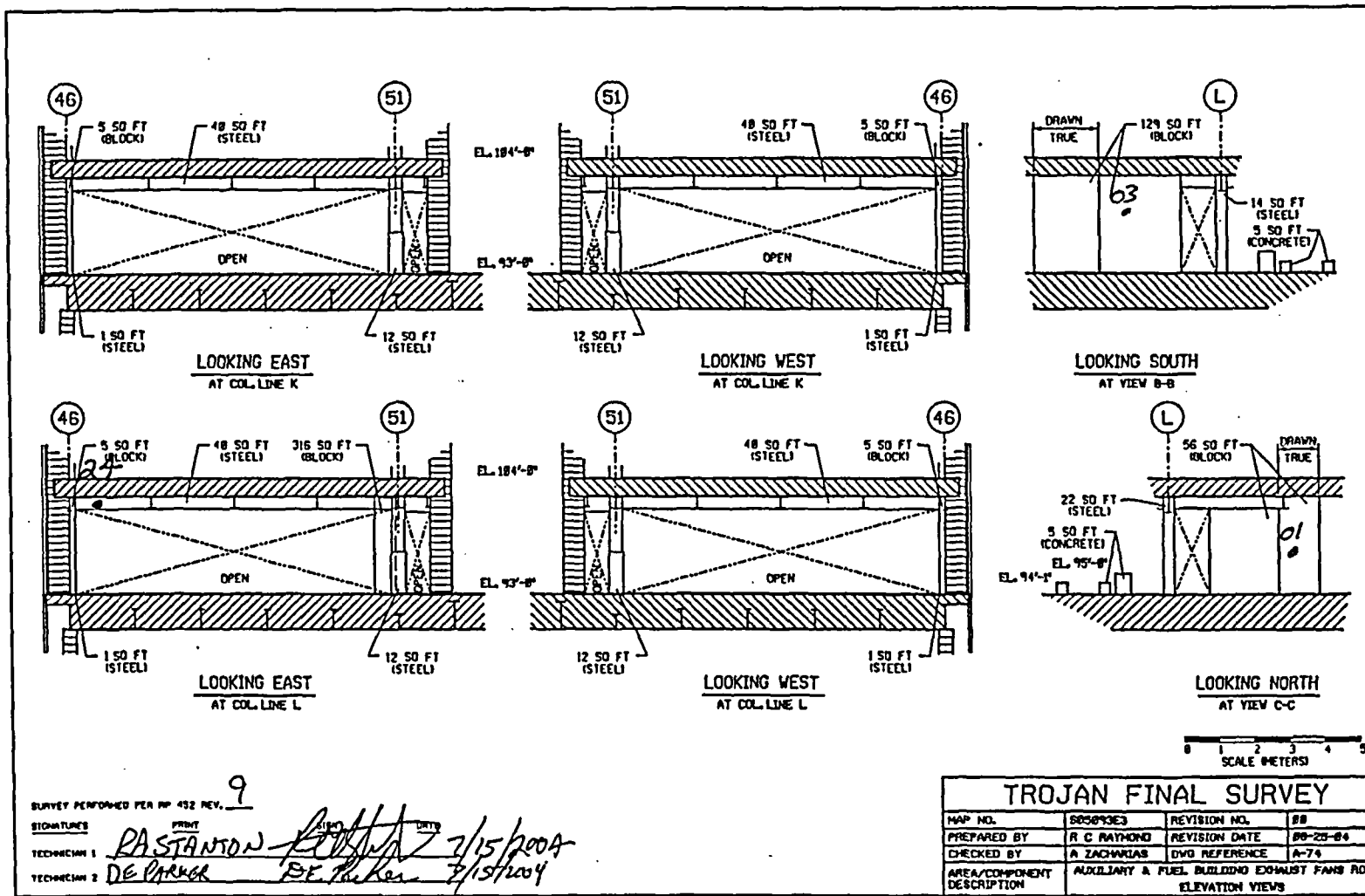
Survey Unit ID Code: S05093E

Survey Unit Name: AB 93' Elevation - Auxiliary/Fuel Building Exhaust Fan Room

Classification: Class 2

Size (m²): 404

Static Measurement Location Map



SURVEY PERFORMED PER RP 432 REV. 9

SIGNATURES: PRINT NAME DATE
 TECHNICIAN 1: RASTANTON 7/15/2004
 TECHNICIAN 2: DE PARRER 7/15/2004

| TROJAN FINAL SURVEY | | | |
|----------------------------|---|---------------|----------|
| MAP NO. | S05093E | REVISION NO. | 00 |
| PREPARED BY | R C RAYMOND | REVISION DATE | 00-23-04 |
| CHECKED BY | A ZACHARIAS | DWG REFERENCE | A-74 |
| AREA/COMPONENT DESCRIPTION | AUXILIARY & FUEL BUILDING EXHAUST FANS ROOM ELEVATION VIEWS | | |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05093F
 Survey Unit Name: AB 93' Elevation -
 Spent Fuel Pool Exhaust Fan Room

Classification: Class 2
 Size (m²): 266

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|-----------------------|------------|-------------------------|------------|-----|-----|
| 1 | 30 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 6.372e+002
 Maximum Value : 2.533e+003
 Range : 1.896e+003
 Median : 1.153e+003
 Std. Deviation : 6.309e+002
 Mean : 1.501e+003
 95% UCL : 1.697e+003

Measurement Values

| Location | Value | Location | Value |
|----------|------------|----------|------------|
| 000001 | 9.348e+002 | 000018 | 1.118e+003 |
| 000002 | 9.310e+002 | 000019 | 9.425e+002 |
| 000003 | 6.372e+002 | 000020 | 9.501e+002 |
| 000004 | 1.057e+003 | 000021 | 1.187e+003 |
| 000005 | 9.463e+002 | 000022 | 9.959e+002 |
| 000006 | 1.072e+003 | 000023 | 1.049e+003 |
| 000007 | 9.997e+002 | 000024 | 2.419e+003 |
| 000008 | 9.158e+002 | 000025 | 2.495e+003 |
| 000009 | 9.882e+002 | 000026 | 2.451e+003 |
| 000010 | 8.280e+002 | 000027 | 2.502e+003 |
| 000011 | 1.740e+003 | 000028 | 2.533e+003 |
| 000012 | 1.625e+003 | 000029 | 2.159e+003 |
| 000013 | 1.778e+003 | 000030 | 2.495e+003 |
| 000014 | 1.961e+003 | | |
| 000015 | 1.706e+003 | | |
| 000016 | 1.900e+003 | | |
| 000017 | 1.725e+003 | | |

FINAL SURVEY RESULTS SUMMARY

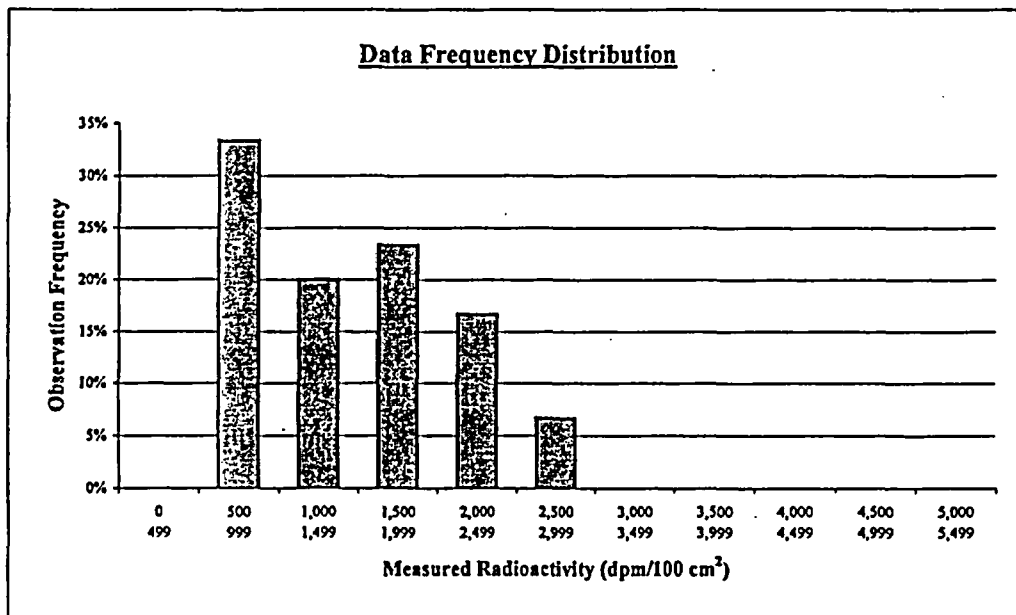
Survey Unit ID Code: S05093F
 Survey Unit Name: AB 93' Elevation -
 Spent Fuel Pool Exhaust Fan Room

Classification: Class 2
 Size (m²): 266

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | | Statistical Quantities | |
|-------------------------|------------------|---------------------|-------------------|------------------------|-------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? | Range: | 1,896 |
| Range | 1,896 | 3,155 | Pass | Median: | 1,153 |
| Median | 0.553 | 0.500 | See comment below | Mean: | 1,501 |
| Mean | 1,501 | 6,000 | Pass | Std Dev: | 631 |
| Std Dev | 631 | 1,500 | Pass | Minimum: | 637 |
| | | | | Maximum: | 2,533 |
| | | | | DCGL: | 7,500 |

All data less than DCGL; Sign statistical test not required.



| Plot Parameters | Interval | High End | Low End | Number of Observations | Observation Frequency |
|-------------------------|---------------|----------|---------|------------------------|-----------------------|
| # of measurements: 30 | 1 | 499 | 0 | 0 | 0% |
| # of intervals: 11 | 2 | 999 | 500 | 10 | 33% |
| Interval increment: 500 | 3 | 1,499 | 1,000 | 6 | 20% |
| Minimum: 0 | 4 | 1,999 | 1,500 | 7 | 23% |
| Maximum: 5,499 | 5 | 2,499 | 2,000 | 5 | 17% |
| | 6 | 2,999 | 2,500 | 2 | 7% |
| | 7 | 3,499 | 3,000 | 0 | 0% |
| | 8 | 3,999 | 3,500 | 0 | 0% |
| | 9 | 4,499 | 4,000 | 0 | 0% |
| | 10 | 4,999 | 4,500 | 0 | 0% |
| | 11 | 5,499 | 5,000 | 0 | 0% |
| | Total: | | | 30 | 100% |

Comment:

The data set contains values from both smooth and scabbled concrete surfaces, resulting in an expected bimodal distribution, due to different detector efficiency factors for the 2 geometries. The test failure does not represent an invalid data set. This statistical comparison is not meaningful for an expected bimodal distribution. All measurement values are valid and accepted.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05093F

Classification: Class 2

Survey Unit Name: AB 93' Elevation –

Size (m²): 266

Spent Fuel Pool Exhaust Fan Room

Judgmental and Miscellaneous Data

Measurement Type: Surface Scanning Beta

Scan Coverage (%): 25

Measurement Units: dpm/100cm²

Investigation Level: 7,500

Minimum Value: 1,028

Maximum Value: 3,277

Measurement Type: Removable Beta

Number of Measurements: 30

Measurement Units: dpm/100cm²

Investigation Level: 750

Minimum Value: 43

Maximum Value: 82

Discussion of Anomalous Measurement Data

Investigation Summary

No investigation required for this survey unit. No anomalous measurement data.

FINAL SURVEY RESULTS SUMMARY

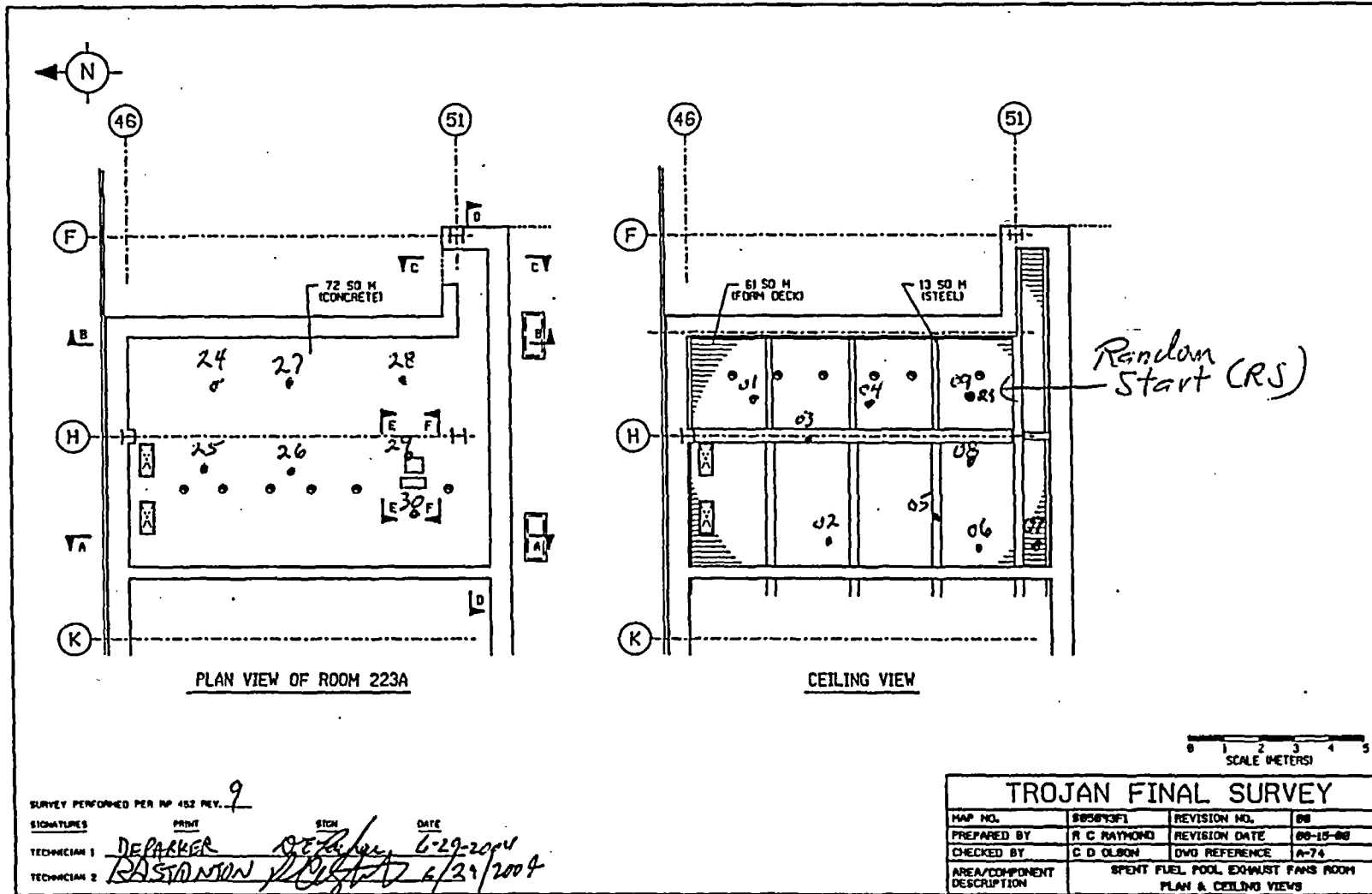
Survey Unit ID Code: S05093F

Survey Unit Name: AB 93' Elevation - Spent Fuel Pool Exhaust Fan Room

Classification: Class 2

Size (m²): 266

Static Measurement Location Map



FINAL SURVEY RESULTS SUMMARY

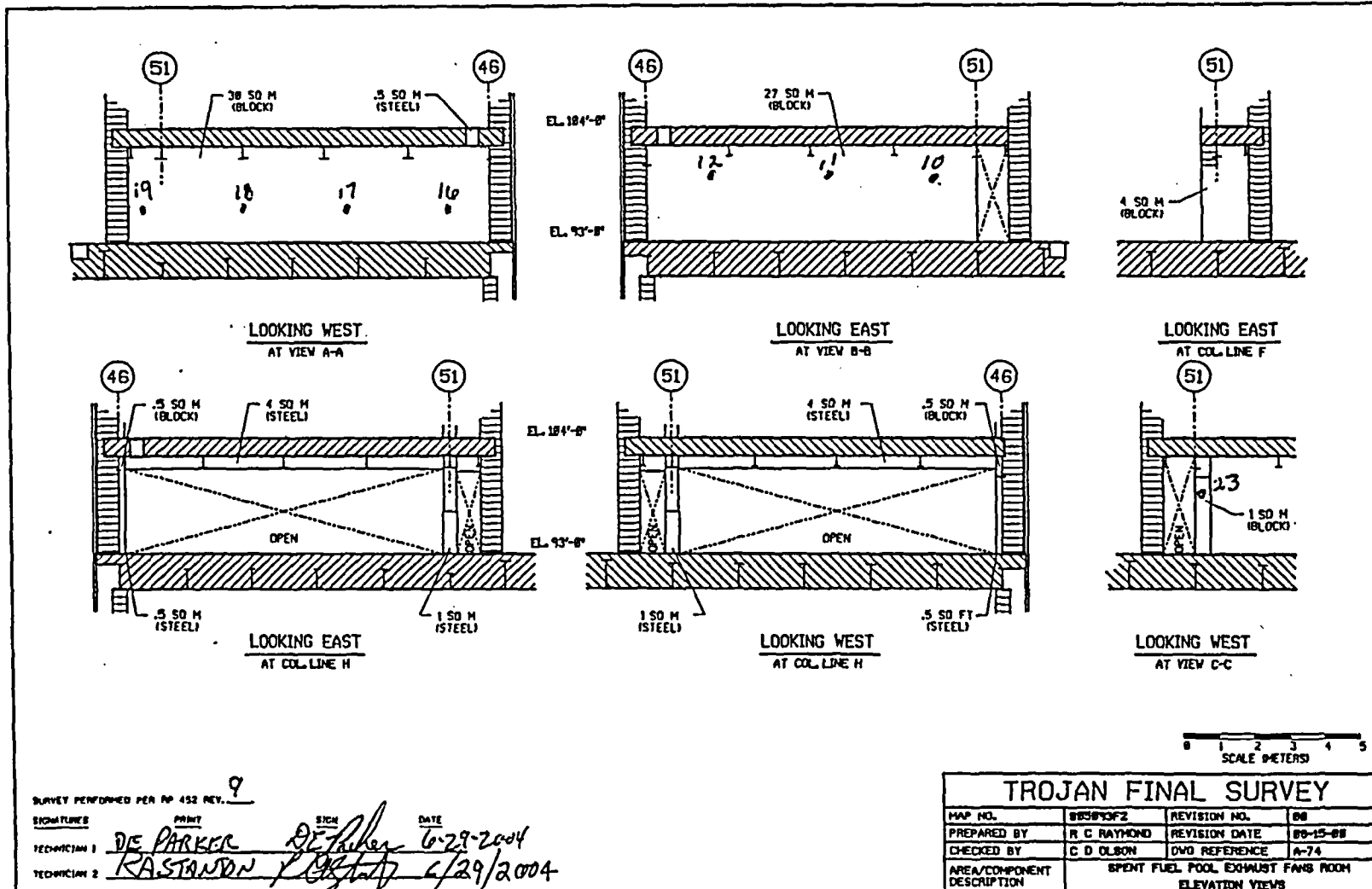
Survey Unit ID Code: S05093F

Survey Unit Name: AB 93' Elevation - Spent Fuel Pool Exhaust Fan Room

Classification: Class 2

Size (m²): 266

Static Measurement Location Map



FINAL SURVEY RESULTS SUMMARY

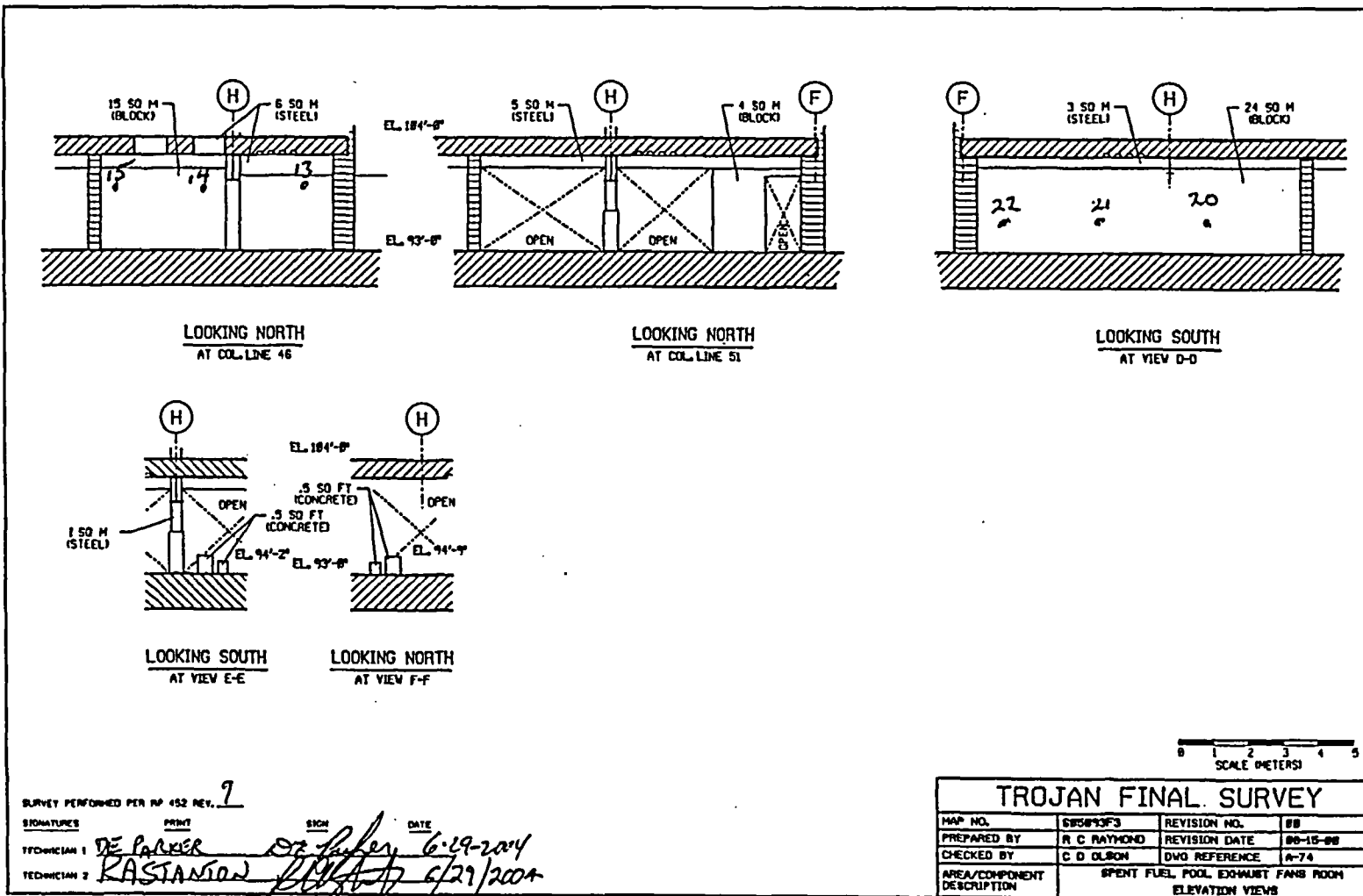
Survey Unit ID Code: S05093F

Survey Unit Name: AB 93' Elevation - Spent Fuel Pool Exhaust Fan Room

Classification: Class 2

Size (m²): 266

Static Measurement Location Map



SURVEY PERFORMED PER HP 452 REV. 7

SIGNATURES: *DE PARKER* (TECHNICIAN 1), *RASTANSON* (TECHNICIAN 2), *R. C. RAYMOND* (DATE: 6-29-2004), *C. D. OLSON* (DATE: 6/29/2004)

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05093G
 Survey Unit Name: AB 93' Elevation -
 Tool Area and Corridor

Classification: Class 2
 Size (m²): 783

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|-----------------------|------------|-------------------------|------------|-----|-----|
| 1 | 30 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 5.252e+002
 Maximum Value : 1.416e+003
 Range : 8.908e+002
 Median : 1.088e+003
 Std. Deviation : 2.775e+002
 Mean : 1.032e+003
 95% UCL : 1.118e+003

Measurement Values

| Location | Value | Location | Value |
|----------|------------|----------|------------|
| 000001 | 1.152e+003 | 000018 | 6.808e+002 |
| 000002 | 8.403e+002 | 000019 | 6.108e+002 |
| 000003 | 1.338e+003 | 000020 | 6.692e+002 |
| 000004 | 1.253e+003 | 000021 | 1.346e+003 |
| 000005 | 1.183e+003 | 000022 | 7.392e+002 |
| 000006 | 1.416e+003 | 000023 | 9.376e+002 |
| 000007 | 1.284e+003 | 000024 | 9.337e+002 |
| 000008 | 1.346e+003 | 000025 | 7.975e+002 |
| 000009 | 1.408e+003 | 000026 | 8.870e+002 |
| 000010 | 1.272e+003 | 000027 | 7.937e+002 |
| 000011 | 1.206e+003 | 000028 | 5.252e+002 |
| 000012 | 1.373e+003 | 000029 | 6.380e+002 |
| 000013 | 1.210e+003 | 000030 | 8.131e+002 |
| 000014 | 1.023e+003 | | |
| 000015 | 1.241e+003 | | |
| 000016 | 1.190e+003 | | |
| 000017 | 8.520e+002 | | |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05093G
 Survey Unit Name: AB 93' Elevation –
 Tool Area and Corridor

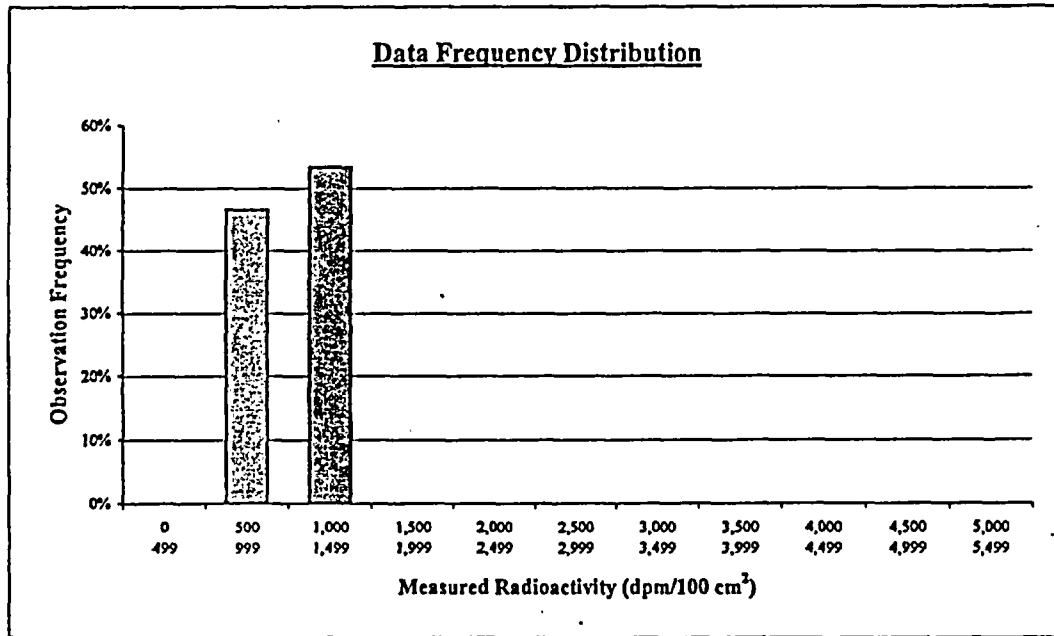
Classification: Class 2
 Size (m²): 783

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | |
|-------------------------|------------------|---------------------|-------------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? |
| Range | 891 | 1,390 | Pass |
| Median | 0.202 | 0.500 | Pass |
| Mean | 1,031 | 6,000 | Pass |
| Std Dev | 278 | 1,500 | Pass |

| Statistical Quantities | |
|------------------------|-------|
| Range: | 891 |
| Median: | 1,088 |
| Mean: | 1,031 |
| Std Dev: | 278 |
| Minimum: | 525 |
| Maximum: | 1,416 |
| DCGL: | 7,500 |

All data less than DCGL; Sign statistical test not required.



| Plot Parameters | |
|---------------------|-------|
| # of measurements: | 30 |
| # of intervals: | 11 |
| Interval increment: | 500 |
| Minimum: | 0 |
| Maximum: | 5,499 |

| Interval | High End | Low End | Number of Observations | Observation Frequency |
|----------|----------|---------|------------------------|-----------------------|
| 1 | 499 | 0 | 0 | 0% |
| 2 | 999 | 500 | 14 | 47% |
| 3 | 1,499 | 1,000 | 16 | 53% |
| 4 | 1,999 | 1,500 | 0 | 0% |
| 5 | 2,499 | 2,000 | 0 | 0% |
| 6 | 2,999 | 2,500 | 0 | 0% |
| 7 | 3,499 | 3,000 | 0 | 0% |
| 8 | 3,999 | 3,500 | 0 | 0% |
| 9 | 4,499 | 4,000 | 0 | 0% |
| 10 | 4,999 | 4,500 | 0 | 0% |
| 11 | 5,499 | 5,000 | 0 | 0% |
| Total: | | | 30 | 100% |

Comment:
 None.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05093G
Survey Unit Name: AB 93' Elevation –
Tool Area and Corridor

Classification: Class 2
Size (m²): 783

Judgmental and Miscellaneous Data

Measurement Type: Surface Scanning Beta
Measurement Units: dpm/100cm²
Minimum Value: 668

Scan Coverage (%): 20
Investigation Level: 7,500
Maximum Value: 5,888

Measurement Type: Removable Beta
Measurement Units: dpm/100cm²
Minimum Value: 49

Number of Measurements: 30
Investigation Level: 750
Maximum Value: 82

Discussion of Anomalous Measurement Data

Investigation Summary

No investigation required for this survey unit. No anomalous measurement data.

FINAL SURVEY RESULTS SUMMARY

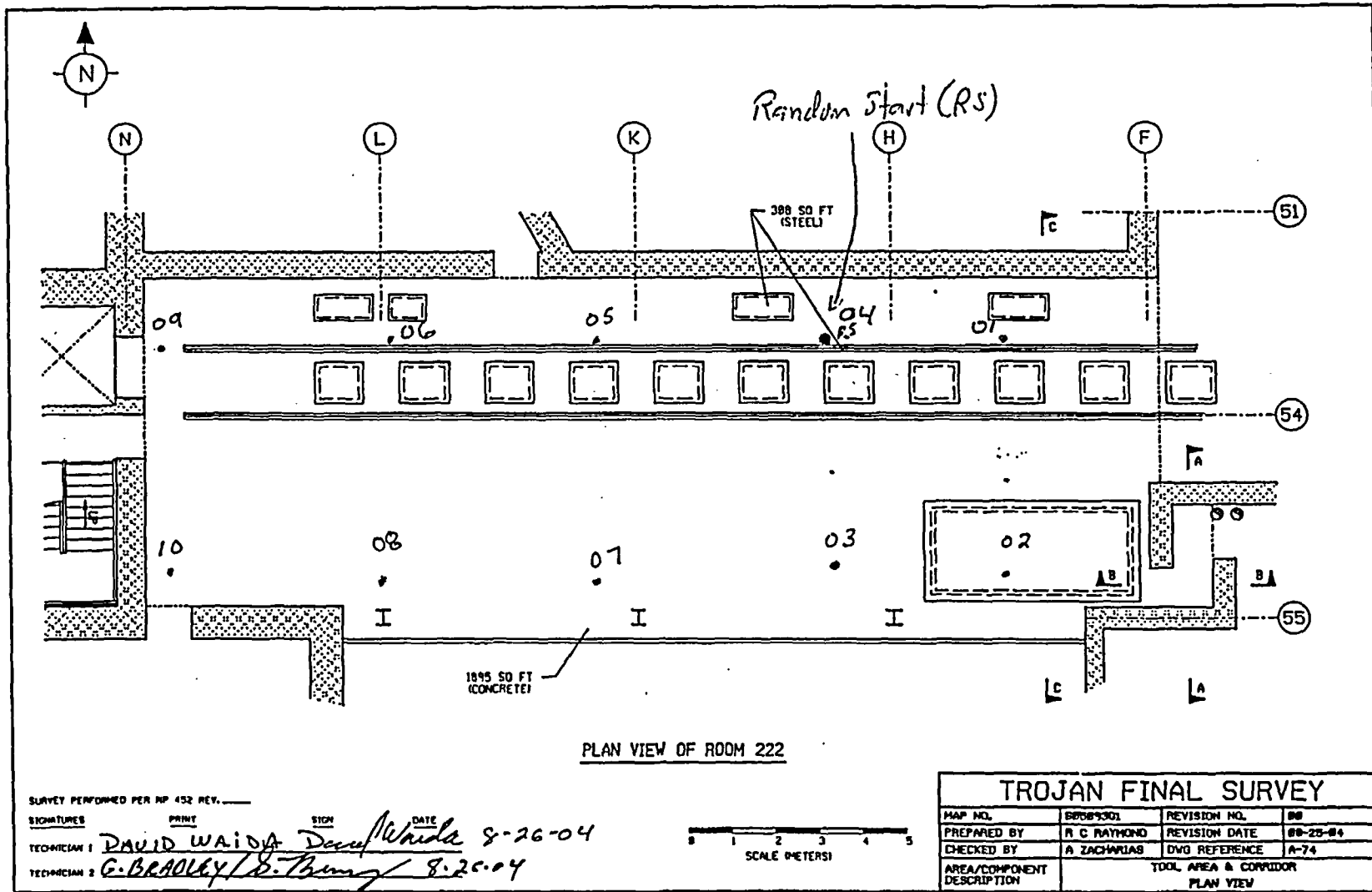
Survey Unit ID Code: S05093G

Survey Unit Name: AB 93' Elevation - Tool Area and Corridor

Classification: Class 2

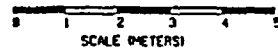
Size (m²): 783

Static Measurement Location Map



SURVEY PERFORMED PER NP 452 REV. _____

SIGNATURES PRINT SIGN DATE
 TECHNICIAN 1 DAVID WAIDA David Waida 8-26-04
 TECHNICIAN 2 G. BRADLEY G. Bradley 8-26-04



| TROJAN FINAL SURVEY | | | |
|----------------------------|-----------------------------------|---------------|----------|
| MAP NO. | S05093G | REVISION NO. | 00 |
| PREPARED BY | A. C. RAYMOND | REVISION DATE | 08-25-04 |
| CHECKED BY | A. ZACHARIAS | DWG REFERENCE | A-74 |
| AREA/COMPONENT DESCRIPTION | TOOL AREA & CORRIDOR PLAN VIEW | | |

FINAL SURVEY RESULTS SUMMARY

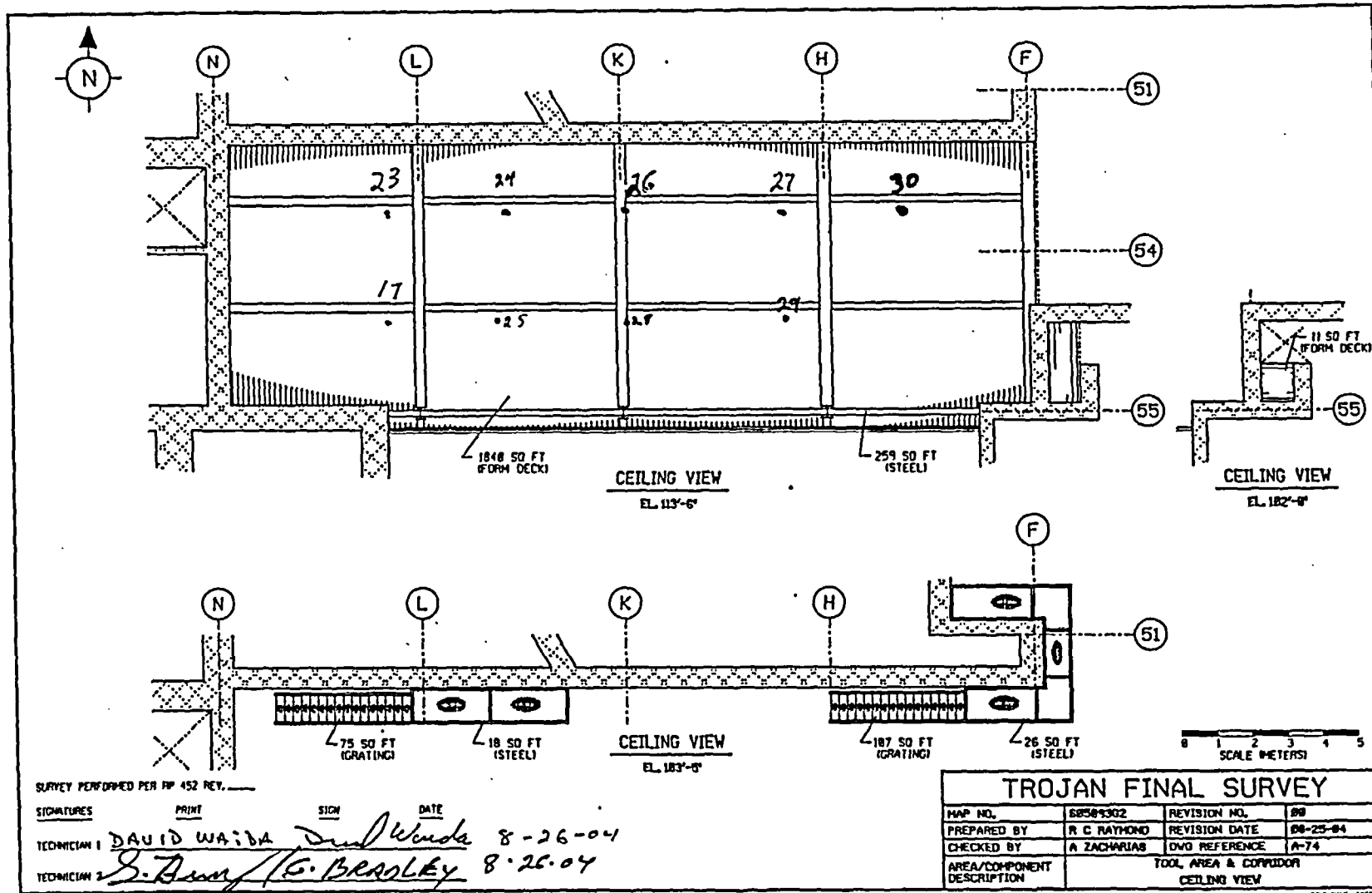
Survey Unit ID Code: S05093G

Survey Unit Name: AB 93' Elevation - Tool Area and Corridor

Classification: Class 2

Size (m²): 783

Static Measurement Location Map



FINAL SURVEY RESULTS SUMMARY

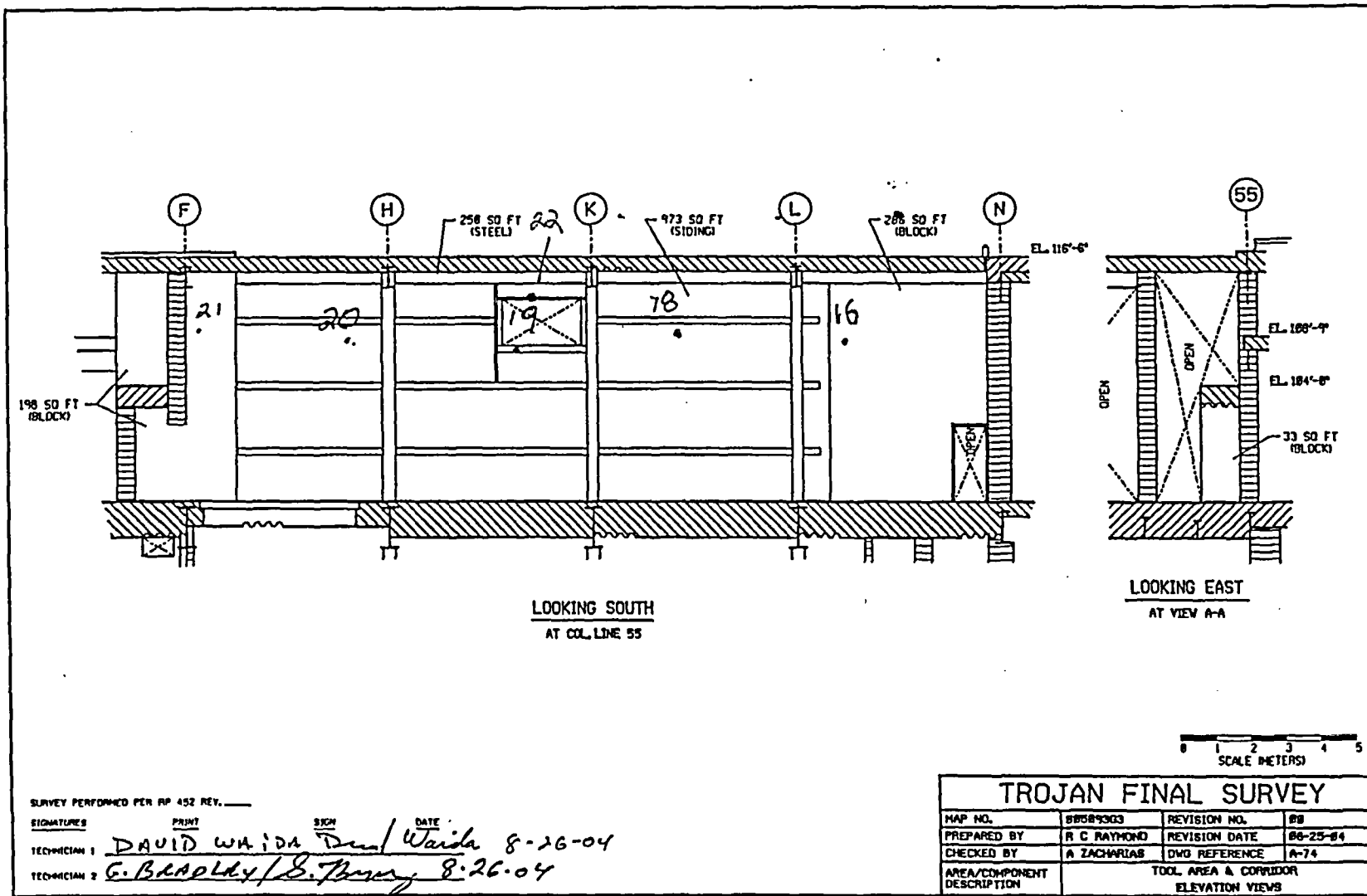
Survey Unit ID Code: S05093G

Survey Unit Name: AB 93' Elevation - Tool Area and Corridor

Classification: Class 2

Size (m²): 783

Static Measurement Location Map

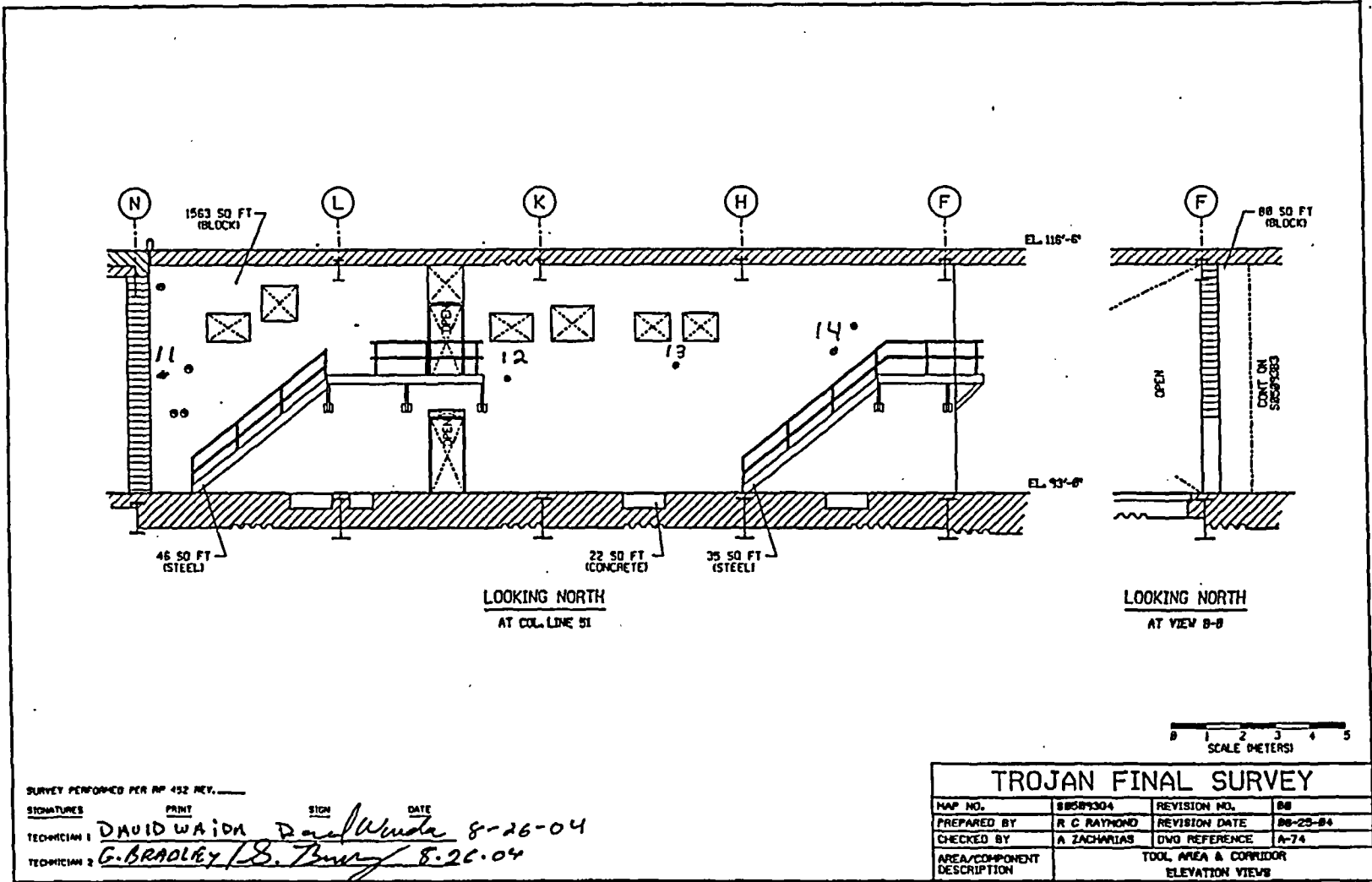


FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05093G
 Survey Unit Name: AB 93' Elevation - Tool Area and Corridor

Classification: Class 2
 Size (m²): 783

Static Measurement Location Map



FINAL SURVEY RESULTS SUMMARY

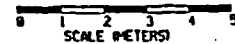
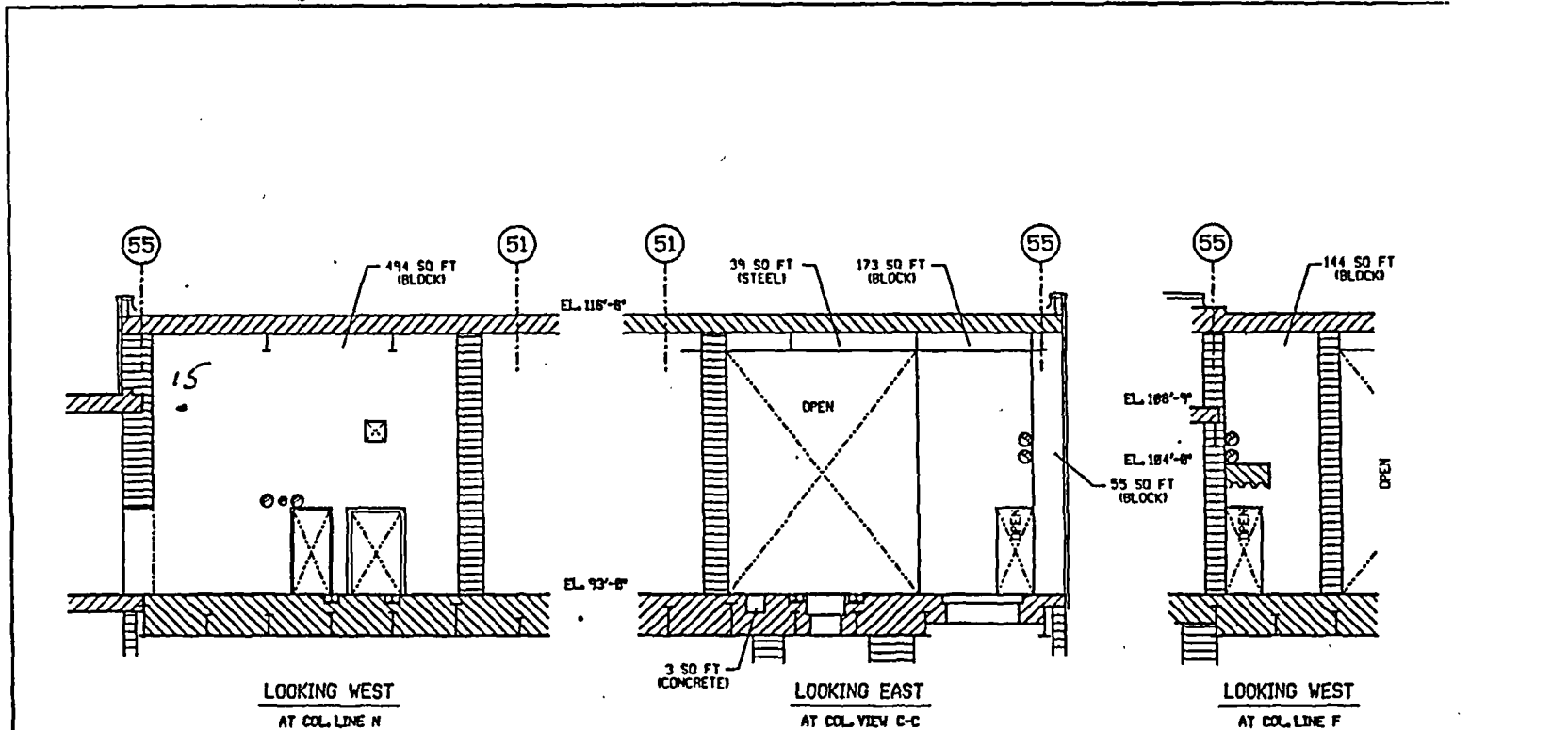
Survey Unit ID Code: S05093G

Survey Unit Name: AB 93' Elevation - Tool Area and Corridor

Classification: Class 2

Size (m²): 783

Static Measurement Location Map



SURVEY PERFORMED PER MP 452 REV. _____

SIGNATURES PRINT SIGN DATE
 TECHNICIAN 1 DAVID WAIDU *David Waidu* 8-26-04
 TECHNICIAN 2 G. BRADLEY *G. Bradley* 8.26.04

| TROJAN FINAL SURVEY | | | |
|----------------------------|--------------------------------------|---------------|----------|
| MAP NO. | S05093G | REVISION NO. | 00 |
| PREPARED BY | R C RAYMOND | REVISION DATE | 08-25-04 |
| CHECKED BY | A ZACHARIAS | DWG REFERENCE | A-74 |
| AREA/COMPONENT DESCRIPTION | TOOL AREA & CORRIDOR ELEVATION VIEWS | | |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05093H
 Survey Unit Name: AB 93' Elevation -
 Load Center Area (less North Wall)

Classification: Class 2
 Size (m²): 730

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|-----------------------|------------|-------------------------|------------|-----|-----|
| 1 | 31 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 5.065e+002
 Maximum Value : 2.735e+003
 Range : 2.229e+003
 Median : 1.449e+003
 Std. Deviation : 4.875e+002
 Mean : 1.407e+003
 95% UCL : 1.555e+003

Measurement Values

| Location | Value | Location | Value |
|----------|------------|----------|------------|
| 000001 | 1.449e+003 | 000018 | 1.726e+003 |
| 000002 | 1.603e+003 | 000019 | 1.083e+003 |
| 000003 | 2.735e+003 | 000020 | 1.129e+003 |
| 000004 | 2.146e+003 | 000021 | 1.826e+003 |
| 000005 | 1.156e+003 | 000022 | 1.753e+003 |
| 000006 | 1.441e+003 | 000023 | 5.863e+002 |
| 000007 | 1.572e+003 | 000024 | 5.065e+002 |
| 000008 | 1.583e+003 | 000025 | 1.105e+003 |
| 000009 | 1.029e+003 | 000026 | 6.740e+002 |
| 000010 | 1.537e+003 | 000027 | 7.697e+002 |
| 000011 | 1.946e+003 | 000028 | 8.216e+002 |
| 000012 | 1.780e+003 | 000029 | 9.412e+002 |
| 000013 | 1.414e+003 | 000030 | 1.300e+003 |
| 000014 | 1.765e+003 | 000031 | 1.212e+003 |
| 000015 | 1.580e+003 | | |
| 000016 | 1.788e+003 | | |
| 000017 | 1.645e+003 | | |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05093H
 Survey Unit Name: AB 93' Elevation -
 Load Center Area (less North Wall)

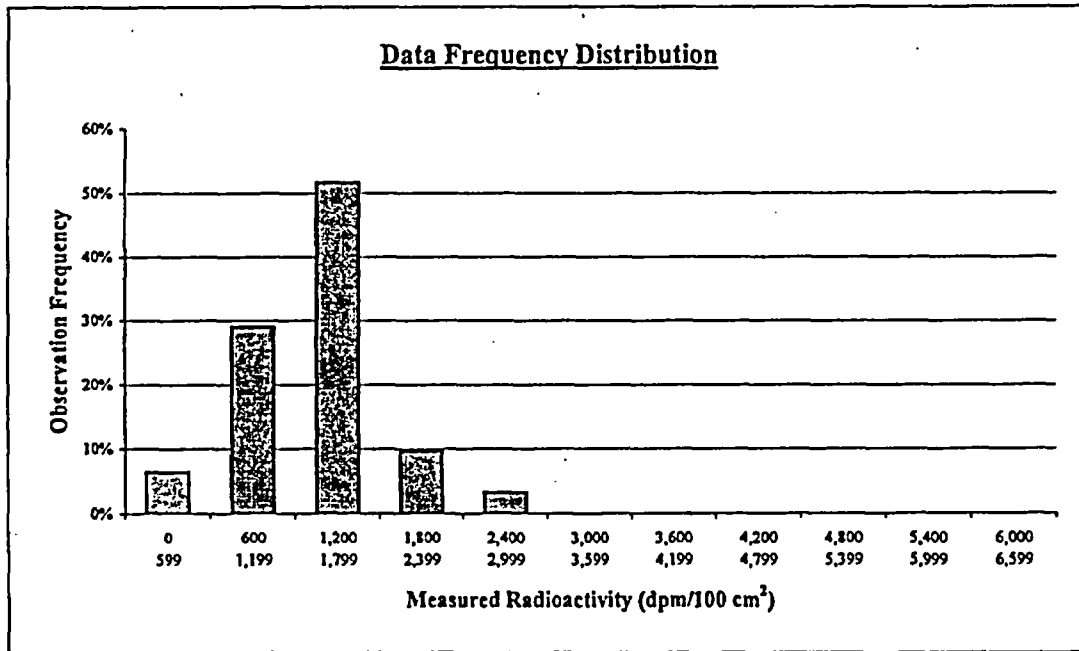
Classification: Class 2
 Size (m²): 730

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | |
|-------------------------|------------------|---------------------|-------------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? |
| Range | 2,228 | 2,437 | Pass |
| Median | 0.087 | 0.500 | Pass |
| Mean | 1,407 | 6,000 | Pass |
| Std Dev | 487 | 1,500 | Pass |

| Statistical Quantities | |
|------------------------|-------|
| Range: | 2,228 |
| Median: | 1,449 |
| Mean: | 1,407 |
| Std Dev: | 487 |
| Minimum: | 507 |
| Maximum: | 2,735 |
| DCGL: | 7,500 |

All data less than DCGL; Sign statistical test not required.



| Plot Parameters | |
|---------------------|-------|
| # of measurements: | 31 |
| # of intervals: | 11 |
| Interval increment: | 600 |
| Minimum: | 0 |
| Maximum: | 6,599 |

Comment:
None.

| Interval | High End | Low End | Number of Observations | Observation Frequency |
|----------|----------|---------|------------------------|-----------------------|
| 1 | 599 | 0 | 2 | 6% |
| 2 | 1,199 | 600 | 9 | 29% |
| 3 | 1,799 | 1,200 | 16 | 52% |
| 4 | 2,399 | 1,800 | 3 | 10% |
| 5 | 2,999 | 2,400 | 1 | 3% |
| 6 | 3,599 | 3,000 | 0 | 0% |
| 7 | 4,199 | 3,600 | 0 | 0% |
| 8 | 4,799 | 4,200 | 0 | 0% |
| 9 | 5,399 | 4,800 | 0 | 0% |
| 10 | 5,999 | 5,400 | 0 | 0% |
| 11 | 6,599 | 6,000 | 0 | 0% |
| Total: | | | 31 | 100% |

FINAL SURVEY RESULTS SUMMARY

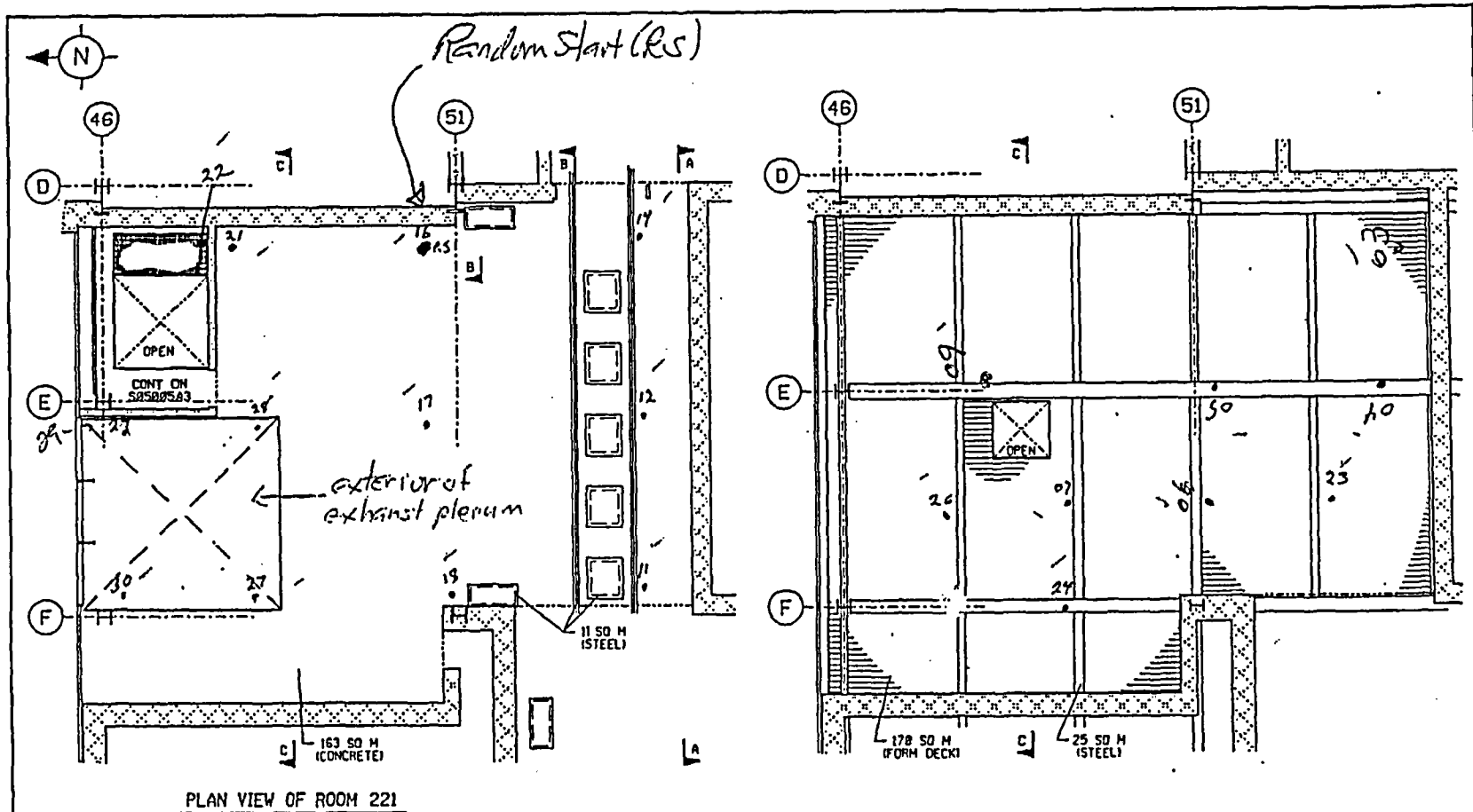
Survey Unit ID Code: S05093H

Classification: Class 2

Survey Unit Name: AB 93' Elevation - Load Center Area (less North Wall)

Size (m²): 730

Static Measurement Location Map



PLAN VIEW OF ROOM 221

SURVEY PERFORMED PER RP 452 REV. 9

| SIGNATURES | PRINT | SIGN | DATE |
|--------------|---------------|----------------------|---------|
| TECHNICIAN 1 | DAVID WAIDA | <i>David Waida</i> | 8-16-04 |
| TECHNICIAN 2 | G. E. GRADLEY | <i>G. E. GRADLEY</i> | 8-16-04 |



| TROJAN FINAL SURVEY | | | |
|----------------------------|--|---------------|----------|
| MAP NO. | S05093H | REVISION NO. | 09 |
| PREPARED BY | R C RAYMOND | REVISION DATE | 07-07-04 |
| CHECKED BY | A ZACHARIAS | DWG REFERENCE | A-74 |
| AREA/COMPONENT DESCRIPTION | LOAD CENTER AREA PLAN & CEILING VIEWS | | |

FILE NAME: S05093H

FINAL SURVEY RESULTS SUMMARY

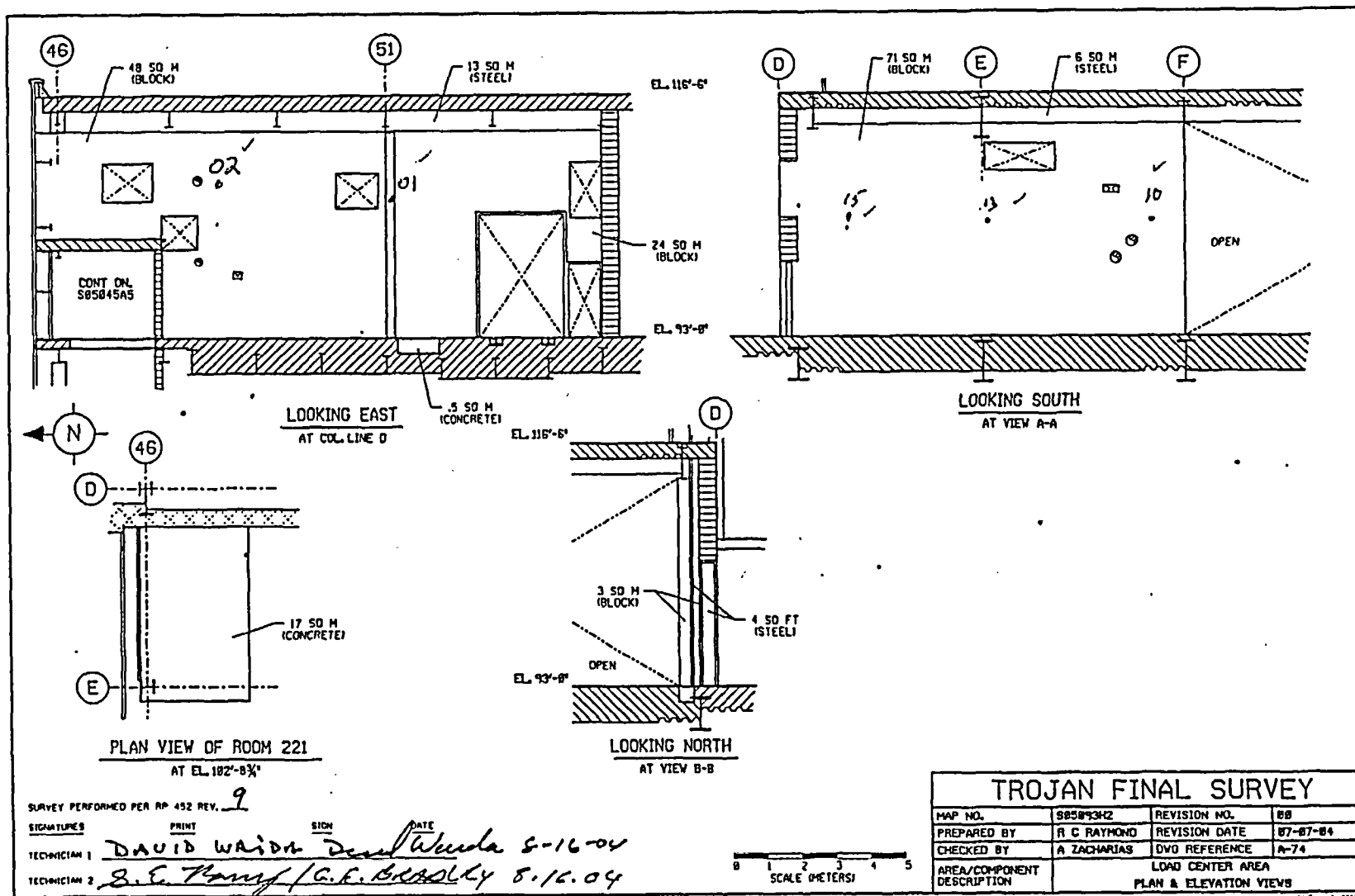
Survey Unit ID Code: S05093H

Classification: Class 2

Survey Unit Name: AB 93' Elevation - Load Center Area (less North Wall)

Size (m²): 730

Static Measurement Location Map



FINAL SURVEY RESULTS SUMMARY

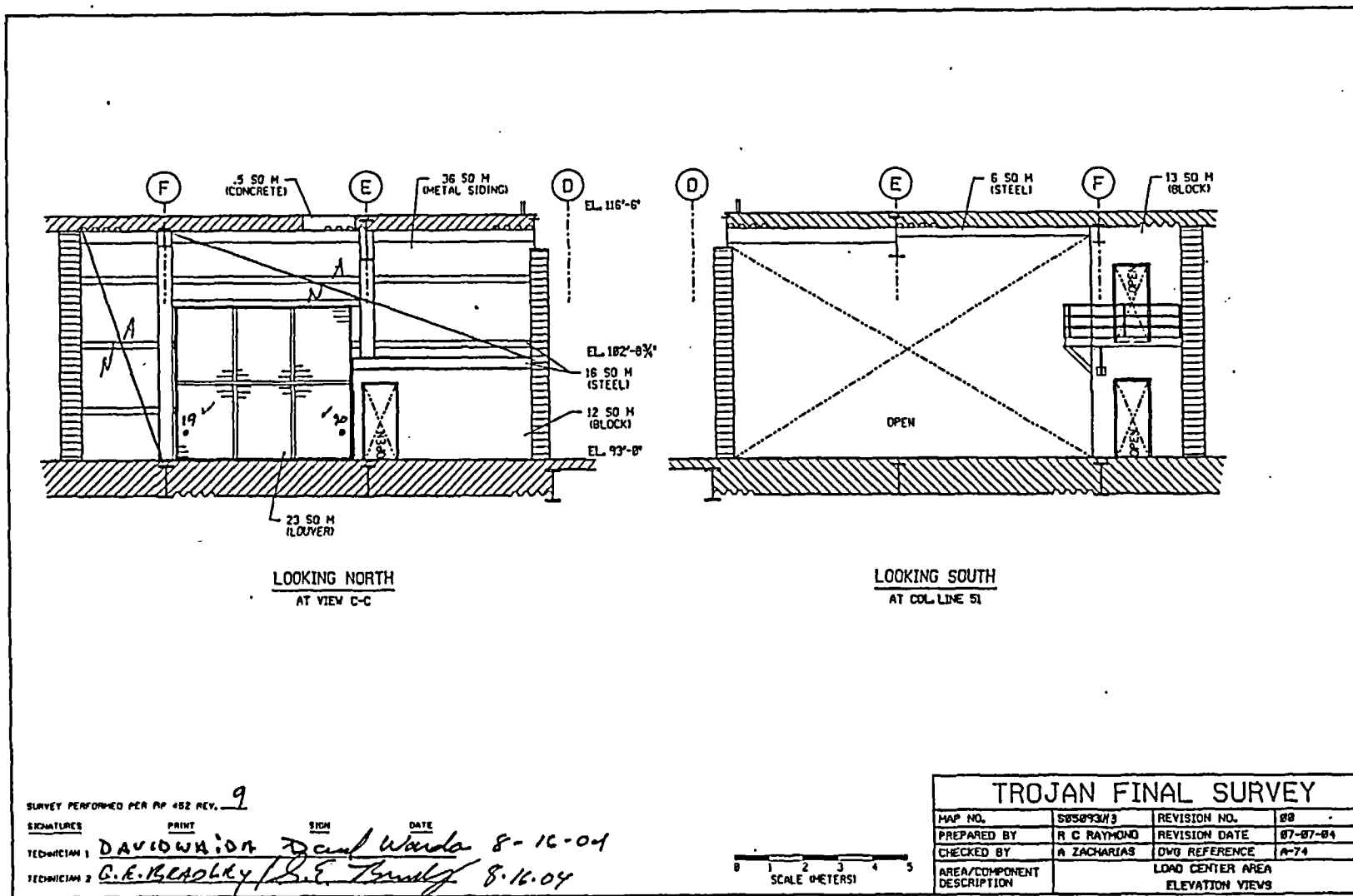
Survey Unit ID Code: S05093H

Classification: Class 2

Survey Unit Name: AB 93' Elevation - Load Center Area (less North Wall)

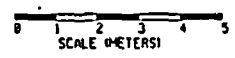
Size (m²): 730

Static Measurement Location Map



SURVEY PERFORMED PER RP 452 REV. 9

| SIGNATURE | PRINT | SIGN | DATE |
|--------------|--------------|---------------------|---------|
| | DAVID WILSON | <i>David Wilson</i> | 8-16-04 |
| TECHNICIAN 1 | C.E. BRADLEY | <i>C.E. Bradley</i> | 8.16.04 |



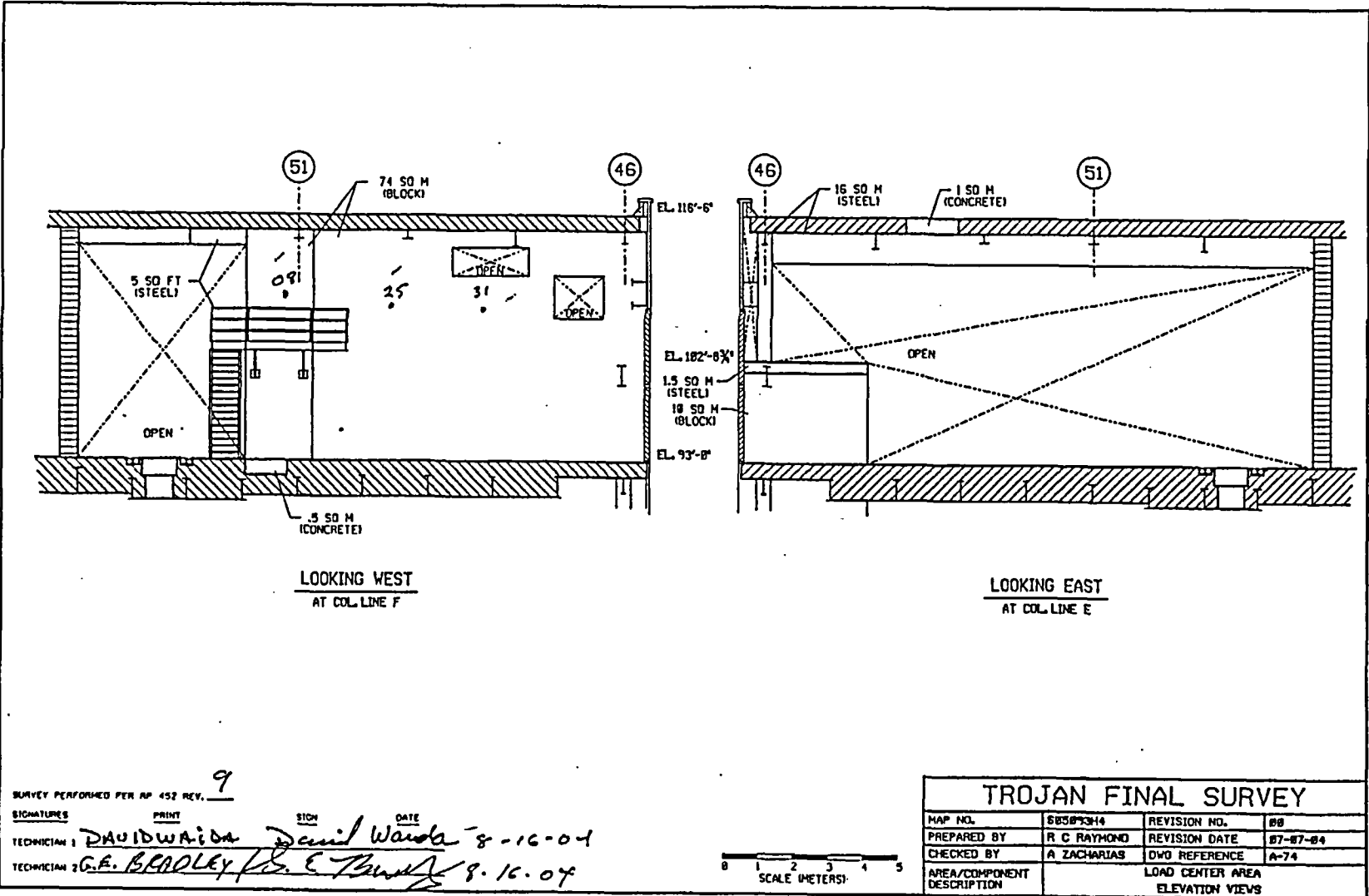
| TROJAN FINAL SURVEY | | | |
|----------------------------|-------------------------------------|---------------|----------|
| MAP NO. | S05093H3 | REVISION NO. | 08 |
| PREPARED BY | R C RAYMOND | REVISION DATE | 07-07-04 |
| CHECKED BY | A ZACHARIAS | DWG REFERENCE | A-74 |
| AREA/COMPONENT DESCRIPTION | LOAD CENTER AREA ELEVATION VIEWS | | |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05093H
 Survey Unit Name: AB 93' Elevation - Load Center Area (less North Wall)

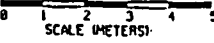
Classification: Class 2
 Size (m²): 730

Static Measurement Location Map



SURVEY PERFORMED PER AP 452 REV. 9

| | | | |
|--------------|--------------|---------------------|---------|
| SIGNATURES | PRINT | SIGN | DATE |
| TECHNICIAN 1 | DAVID WAIDA | <i>David Waida</i> | 8-16-04 |
| TECHNICIAN 2 | G.E. BRADLEY | <i>G.E. Bradley</i> | 8-16-04 |



| TROJAN FINAL SURVEY | | | |
|----------------------------|----------------------------------|---------------|----------|
| MAP NO. | S05093H4 | REVISION NO. | 08 |
| PREPARED BY | R C RAYMOND | REVISION DATE | 07-07-04 |
| CHECKED BY | A ZACHARIAS | DWG REFERENCE | A-74 |
| AREA/COMPONENT DESCRIPTION | LOAD CENTER AREA ELEVATION VIEWS | | |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05093J

Classification: Class 1

Survey Unit Name: AB 93' Elevation -

Size (m²): 71

Containment Purge Exhaust Room Floor

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|-----------------------|------------|-------------------------|------------|-----|-----|
| 1 | 30 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 1.605e+003
 Maximum Value : 6.432e+003
 Range : 4.827e+003
 Median : 2.254e+003
 Std. Deviation : 8.313e+002
 Mean : 2.318e+003
 95% UCL : 2.576e+003

Measurement Values

| Location | Value | Location | Value |
|----------|------------|----------|------------|
| 000001 | 2.600e+003 | 000018 | 1.753e+003 |
| 000002 | 2.570e+003 | 000019 | 1.789e+003 |
| 000003 | 2.257e+003 | 000020 | 1.605e+003 |
| 000004 | 2.369e+003 | 000021 | 2.493e+003 |
| 000005 | 2.268e+003 | 000022 | 2.268e+003 |
| 000006 | 2.322e+003 | 000023 | 2.446e+003 |
| 000007 | 2.416e+003 | 000024 | 2.191e+003 |
| 000008 | 2.428e+003 | 000025 | 2.197e+003 |
| 000009 | 1.700e+003 | 000026 | 2.245e+003 |
| 000010 | 1.783e+003 | 000027 | 1.623e+003 |
| 000011 | 2.186e+003 | 000028 | 1.753e+003 |
| 000012 | 2.251e+003 | 000029 | 2.233e+003 |
| 000013 | 2.304e+003 | 000030 | 2.559e+003 |
| 000014 | 2.215e+003 | | |
| 000015 | 6.432e+003 | | |
| 000016 | 2.393e+003 | | |
| 000017 | 1.901e+003 | | |

FINAL SURVEY RESULTS SUMMARY

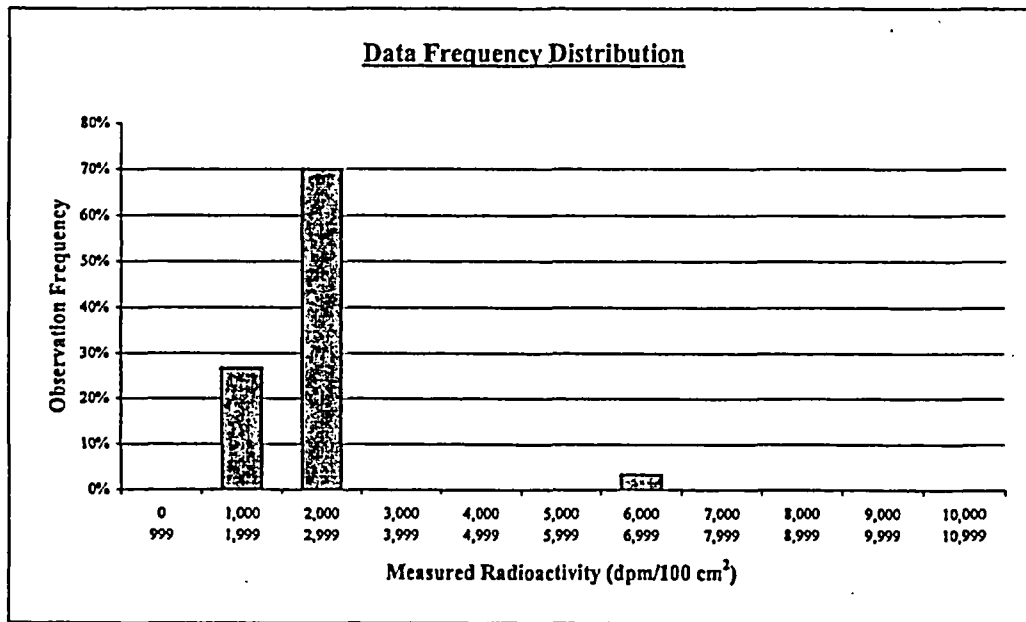
Survey Unit ID Code: S05093J
 Survey Unit Name: AB 93' Elevation –
 Containment Purge Exhaust Room Floor

Classification: Class 1
 Size (m²): 71

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | | Statistical Quantities | |
|-------------------------|------------------|---------------------|-------------------|------------------------|-------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? | | |
| Range | 4,827 | 4,156 | See comment below | Range: | 4,827 |
| Median | 0.077 | 0.500 | Pass | Median: | 2,254 |
| Mean | 2,318 | 6,000 | Pass | Mean: | 2,318 |
| Std Dev | 831 | 1,500 | Pass | Std Dev: | 831 |
| | | | | Minimum: | 1,605 |
| | | | | Maximum: | 6,432 |
| | | | | DCGL: | 7,500 |

All data less than DCGL; Sign statistical test not required.



| Plot Parameters | | | | Number of | Observation | |
|---------------------|--------|----------|----------|-----------|--------------|-----------|
| | | Interval | High End | Low End | Observations | Frequency |
| # of measurements: | 30 | 1 | 999 | 0 | 0 | 0% |
| # of intervals: | 11 | 2 | 1,999 | 1,000 | 8 | 27% |
| Interval increment: | 1,000 | 3 | 2,999 | 2,000 | 21 | 70% |
| Minimum: | 0 | 4 | 3,999 | 3,000 | 0 | 0% |
| Maximum: | 10,999 | 5 | 4,999 | 4,000 | 0 | 0% |
| | | 6 | 5,999 | 5,000 | 0 | 0% |
| | | 7 | 6,999 | 6,000 | 1 | 3% |
| | | 8 | 7,999 | 7,000 | 0 | 0% |
| | | 9 | 8,999 | 8,000 | 0 | 0% |
| | | 10 | 9,999 | 9,000 | 0 | 0% |
| | | 11 | 10,999 | 10,000 | 0 | 0% |
| Total: | | | | | 30 | 100% |

Comment:
 Range test failure is due to one measurement value of 6,432 dpm, with the other 29 values all less than 3,000 dpm. The relatively high value at location 15 is in scan grid 029, which had a scan result of 5,533 dpm after remediation. The measurement value at location 15 is valid and accepted.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05093J **Classification:** Class 1
Survey Unit Name: AB 93' Elevation – **Size (m²):** 71
Containment Purge Exhaust Room Floor

Judgmental and Miscellaneous Data

| | |
|--|-----------------------------------|
| Measurement Type: Surface Scanning Beta | Scan Coverage (%): 100 |
| Measurement Units: dpm/100cm ² | Investigation Level: 7,500 |
| Minimum Value: 1,988 | Maximum Value: 8,740 |
| Measurement Type: Removable Beta | Number of Measurements: 30 |
| Measurement Units: dpm/100cm ² | Investigation Level: 750 |
| Minimum Value: 37 | Maximum Value: 86 |

Discussion of Anomalous Measurement Data

Investigation Summary

Reason for Investigation: Four scan measurements exceeded the investigation level.

Elevated Measurement Comparison (EMC):

| | |
|---|------------------------|
| DCGL (Investigation Level): | 7,500 |
| Measurement Units: | dpm/100cm ² |
| Maximum Value: | 15,860 |
| Size of Area Exceeding DCGL (m²): | 0.061 |
| Size of Survey Unit (m²): | 71 |
| Survey Unit Area >DCGL (%): | 0.09 |
| EMC Value: | 36,750 |

Action Taken: Corrected measurement values for scan locations per guidance in memo FS-018-03. Deleted scan results for scan locations 029, 033, 042, & 054 to be remediated. Rescanned remediated areas. Applied EMC data processing to results for scan location 054 that remains elevated.

Basis for Action Taken: Technical basis memorandum FS-018-03 provides guidance for correcting SDMS determined scan results for locations that exceed the investigation level by subtracting instrument background from the field results.

FINAL SURVEY RESULTS SUMMARY

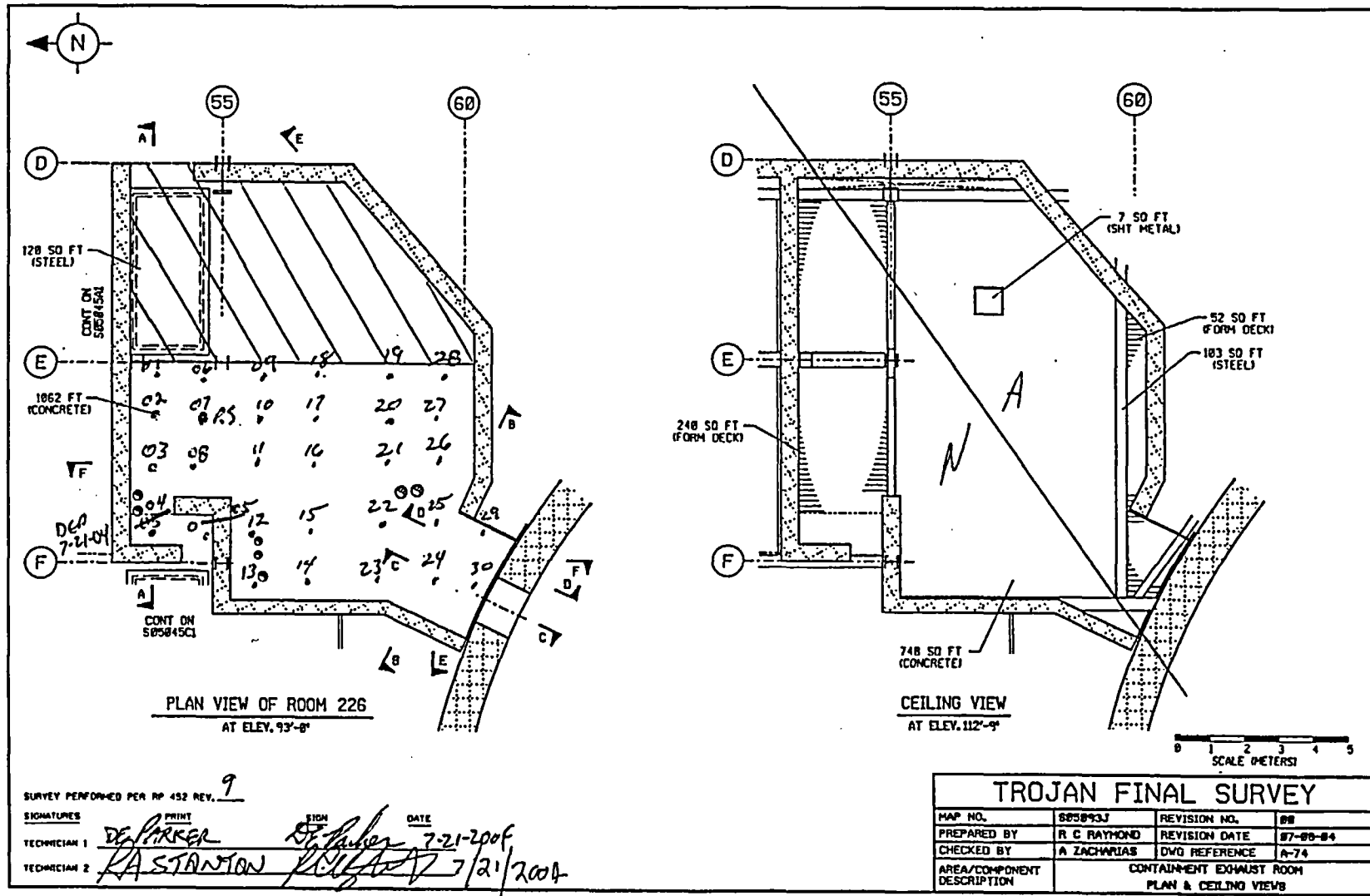
Survey Unit ID Code: S05093J

Survey Unit Name: AB 93' Elevation - Containment Purge Exhaust Room Floor

Classification: Class 1

Size (m²): 71

Static Measurement Location Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05093K
 Survey Unit Name: AB 93' Elevation -
 Containment Purge Exhaust Room

Classification: Class 2
 Size (m²): 601

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|--------------------------|---------------|-------------------------|------------|-----|-----|
| 1 | 35 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 5.913e+002
 Maximum Value : 1.525e+003
 Range : 9.337e+002
 Median : 1.027e+003
 Std. Deviation : 2.079e+002
 Mean : 1.067e+003
 95% UCL : 1.126e+003

Measurement Values

| Location | Value | Location | Value | Location | Value |
|----------|------------|----------|------------|----------|------------|
| 000001 | 1.525e+003 | 000018 | 8.792e+002 | 000035 | 9.143e+002 |
| 000002 | 8.209e+002 | 000019 | 1.245e+003 | | |
| 000003 | 1.043e+003 | 000020 | 1.385e+003 | | |
| 000004 | 1.436e+003 | 000021 | 7.898e+002 | | |
| 000005 | 1.272e+003 | 000022 | 9.220e+002 | | |
| 000006 | 1.140e+003 | 000023 | 8.870e+002 | | |
| 000007 | 9.026e+002 | 000024 | 9.882e+002 | | |
| 000008 | 1.074e+003 | 000025 | 9.804e+002 | | |
| 000009 | 1.120e+003 | 000026 | 1.027e+003 | | |
| 000010 | 1.268e+003 | 000027 | 9.026e+002 | | |
| 000011 | 1.268e+003 | 000028 | 8.831e+002 | | |
| 000012 | 1.132e+003 | 000029 | 1.296e+003 | | |
| 000013 | 9.415e+002 | 000030 | 1.179e+003 | | |
| 000014 | 1.124e+003 | 000031 | 1.346e+003 | | |
| 000015 | 1.276e+003 | 000032 | 9.609e+002 | | |
| 000016 | 5.913e+002 | 000033 | 1.019e+003 | | |
| 000017 | 8.637e+002 | 000034 | 9.415e+002 | | |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05093K
 Survey Unit Name: AB 93' Elevation -
 Containment Purge Exhaust Room

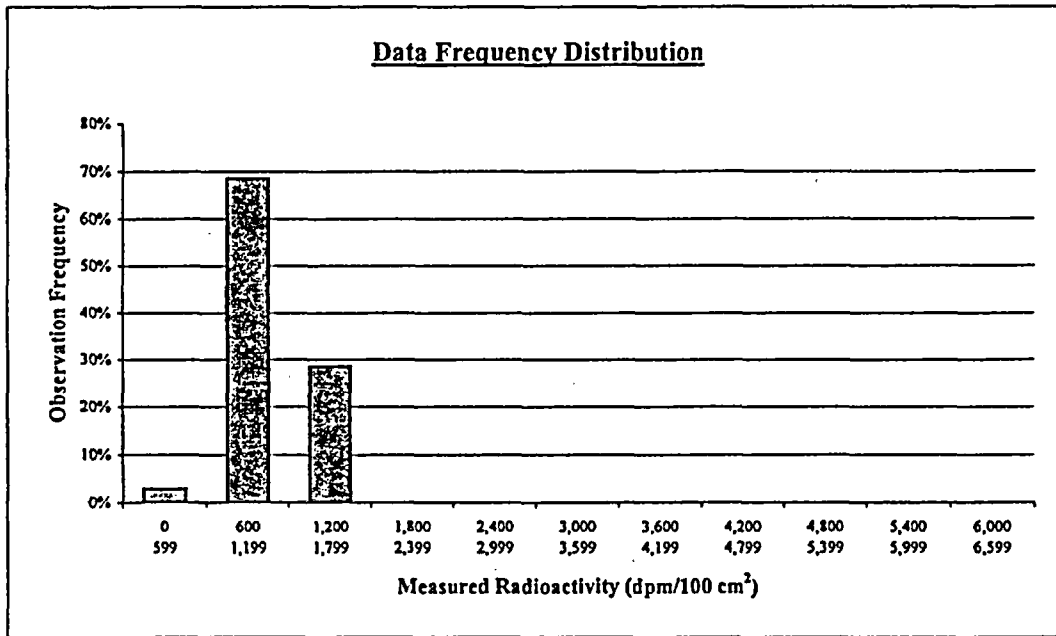
Classification: Class 2
 Size (m²): 601

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | |
|-------------------------|------------------|---------------------|-------------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? |
| Range | 934 | 1,039 | Pass |
| Median | 0.192 | 0.500 | Pass |
| Mean | 1,067 | 6,000 | Pass |
| Std Dev | 208 | 1,500 | Pass |

| Statistical Quantities | |
|------------------------|-------|
| Range: | 934 |
| Median: | 1,027 |
| Mean: | 1,067 |
| Std Dev: | 208 |
| Minimum: | 591 |
| Maximum: | 1,525 |
| DCGL: | 7,500 |

All data less than DCGL; Sign statistical test not required.



| Plot Parameters | |
|---------------------|-------|
| # of measurements: | 35 |
| # of intervals: | 11 |
| Interval increment: | 600 |
| Minimum: | 0 |
| Maximum: | 6,599 |

Comment:
None.

| Interval | High End | Low End | Number of Observations | Observation Frequency |
|----------|----------|---------|------------------------|-----------------------|
| 1 | 599 | 0 | 1 | 3% |
| 2 | 1,199 | 600 | 24 | 69% |
| 3 | 1,799 | 1,200 | 10 | 29% |
| 4 | 2,399 | 1,800 | 0 | 0% |
| 5 | 2,999 | 2,400 | 0 | 0% |
| 6 | 3,599 | 3,000 | 0 | 0% |
| 7 | 4,199 | 3,600 | 0 | 0% |
| 8 | 4,799 | 4,200 | 0 | 0% |
| 9 | 5,399 | 4,800 | 0 | 0% |
| 10 | 5,999 | 5,400 | 0 | 0% |
| 11 | 6,599 | 6,000 | 0 | 0% |
| Total: | | | 35 | 100% |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05093K
Survey Unit Name: AB 93' Elevation –
Containment Purge Exhaust Room

Classification: Class 2
Size (m²): 601

Judgmental and Miscellaneous Data

Measurement Type: Surface Scanning Beta
Measurement Units: dpm/100cm²
Minimum Value: 735

Scan Coverage (%): 20
Investigation Level: 7,500
Maximum Value: 7,496

Measurement Type: Removable Beta
Measurement Units: dpm/100cm²
Minimum Value: 36

Number of Measurements: 35
Investigation Level: 750
Maximum Value: 83

Discussion of Anomalous Measurement Data

Investigation Summary

Reason for Investigation: Seven scan measurements exceeded the investigation level.

Elevated Measurement Comparison (EMC):

| | |
|---|------------------------|
| DCGL (Investigation Level): | 7,500 |
| Measurement Units: | dpm/100cm ² |
| Maximum Value: | 15,940 |
| Size of Area Exceeding DCGL (m²): | N/A |
| Size of Survey Unit (m²): | N/A |
| Survey Unit Area >DCGL (%): | N/A |
| EMC Value: | N/A |

Action Taken: Corrected measurement values for scan locations per guidance in memo FS-018-03. Replaced original scan results in SDMS with these results, all of which corrected to less than the investigation level.

Basis for Action Taken: Technical basis memorandum FS-018-03 provides guidance for correcting SDMS determined scan results for locations that exceed the investigation level by subtracting instrument background from the field results.

FINAL SURVEY RESULTS SUMMARY

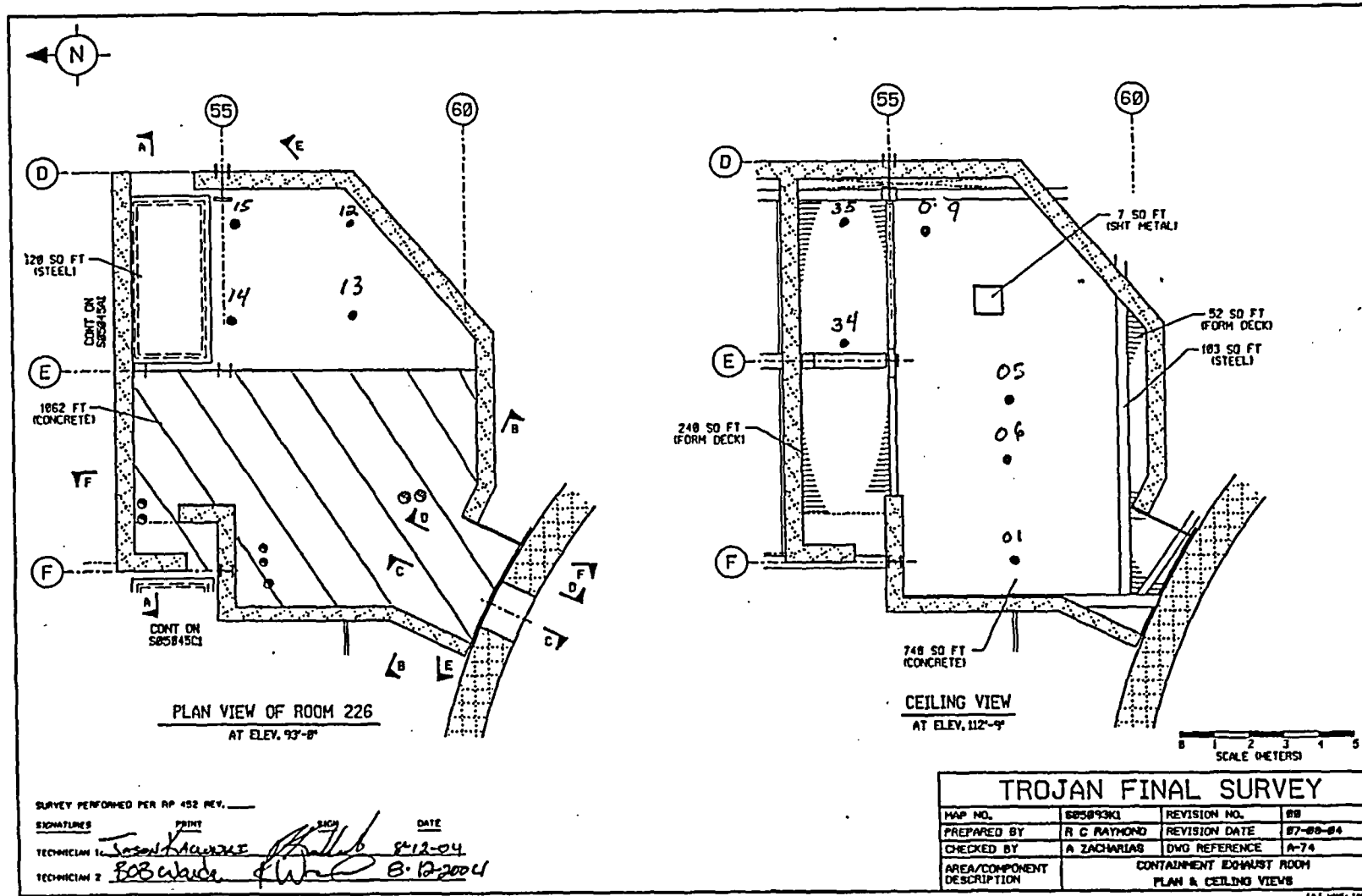
Survey Unit ID Code: S05093K

Survey Unit Name: AB 93' Elevation - Containment Purge Exhaust Room

Classification: Class 2

Size (m²): 601

Static Measurement Location Map



FINAL SURVEY RESULTS SUMMARY

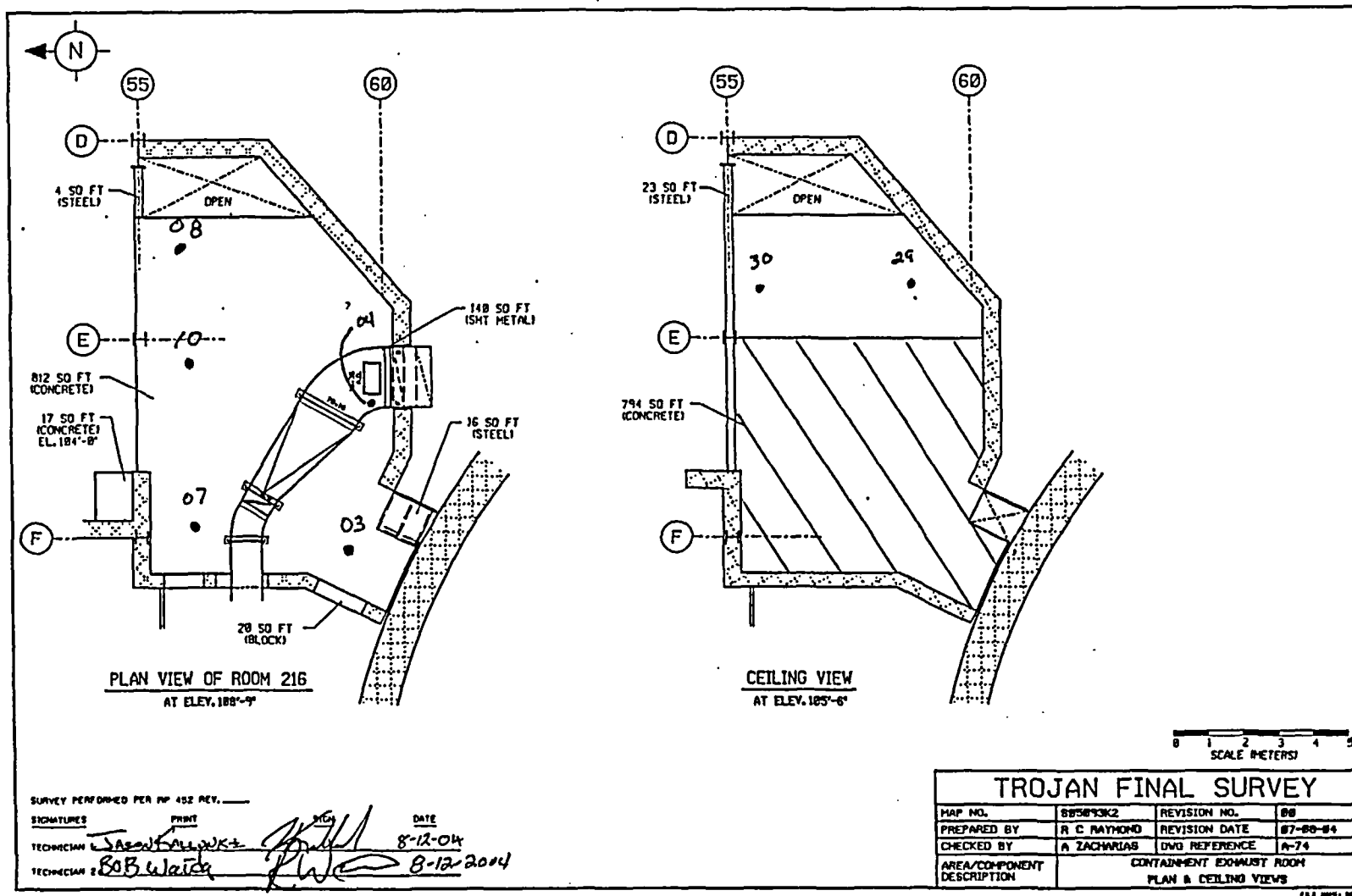
Survey Unit ID Code: S05093K

Survey Unit Name: AB 93' Elevation - Containment Purge Exhaust Room

Classification: Class 2

Size (m²): 601

Static Measurement Location Map



FINAL SURVEY RESULTS SUMMARY

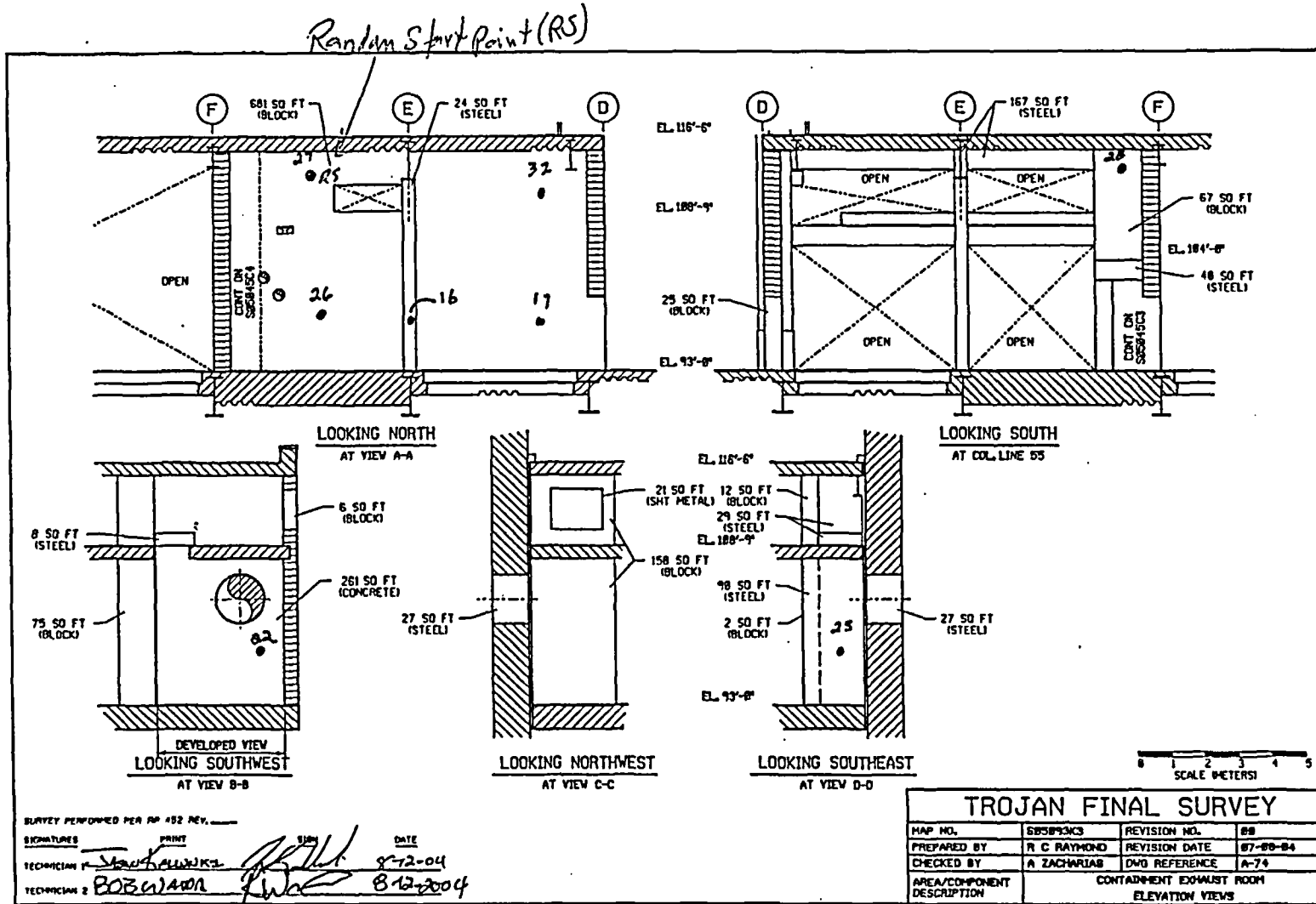
Survey Unit ID Code: S05093K

Classification: Class 2

Survey Unit Name: AB 93' Elevation - Containment Purge Exhaust Room

Size (m²): 601

Static Measurement Location Map

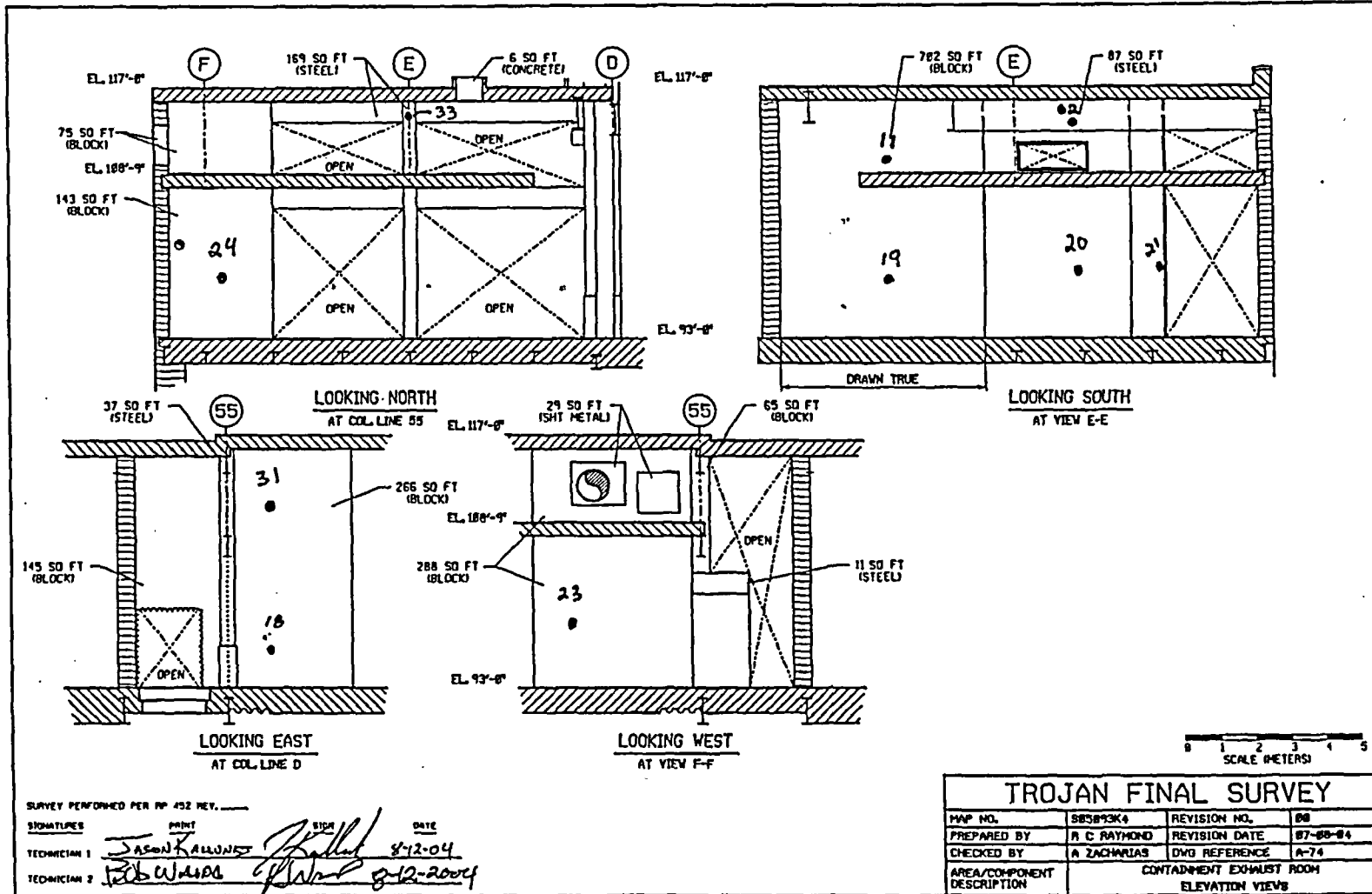


FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05093K
 Survey Unit Name: AB 93' Elevation - Containment Purge Exhaust Room

Classification: Class 2
 Size (m²): 601

Static Measurement Location Map



SURVEY PERFORMED PER RP 452 REV. _____
 SIGNATURES: PRINT SIGN DATE
 TECHNICIAN 1: JASON KALONIS 8-12-04
 TECHNICIAN 2: JEFF WARD 8-12-2004

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05104A

Classification: Class 2

Survey Unit Name: AB 104' Elevation -

Size (m²): 364

Auxiliary/Fuel Building Exhaust Fan Room Walls and Ceiling

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # OF Meas. | Measurement Unit | DCGL | SGN | WRS |
|-----------------------|------------|-------------------------|------------|-----|-----|
| 1 | 35 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 5.544e+002
 Maximum Value : 1.078e+003
 Range : 5.236e+002
 Median : 8.088e+002
 Std. Deviation : 9.823e+001
 Mean : 8.161e+002
 95% UCL : 8.442e+002

Measurement Values

| Location | Value | Location | Value | Location | Value |
|----------|------------|----------|------------|----------|------------|
| 000001 | 7.974e+002 | 000018 | 7.025e+002 | 000035 | 7.329e+002 |
| 000002 | 8.012e+002 | 000019 | 7.139e+002 | | |
| 000003 | 8.620e+002 | 000020 | 6.835e+002 | | |
| 000004 | 7.595e+002 | 000021 | 8.088e+002 | | |
| 000005 | 1.078e+003 | 000022 | 9.076e+002 | | |
| 000006 | 8.050e+002 | 000023 | 9.152e+002 | | |
| 000007 | 7.861e+002 | 000024 | 5.544e+002 | | |
| 000008 | 8.088e+002 | 000025 | 9.304e+002 | | |
| 000009 | 9.342e+002 | 000026 | 9.038e+002 | | |
| 000010 | 8.962e+002 | 000027 | 7.025e+002 | | |
| 000011 | 7.443e+002 | 000028 | 8.506e+002 | | |
| 000012 | 7.405e+002 | 000029 | 8.848e+002 | | |
| 000013 | 8.544e+002 | 000030 | 7.633e+002 | | |
| 000014 | 7.633e+002 | 000031 | 8.544e+002 | | |
| 000015 | 7.253e+002 | 000032 | 8.278e+002 | | |
| 000016 | 8.202e+002 | 000033 | 9.873e+002 | | |
| 000017 | 8.468e+002 | 000034 | 8.164e+002 | | |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05104A

Classification: Class 2

Survey Unit Name: AB 104' Elevation -

Size (m²): 364

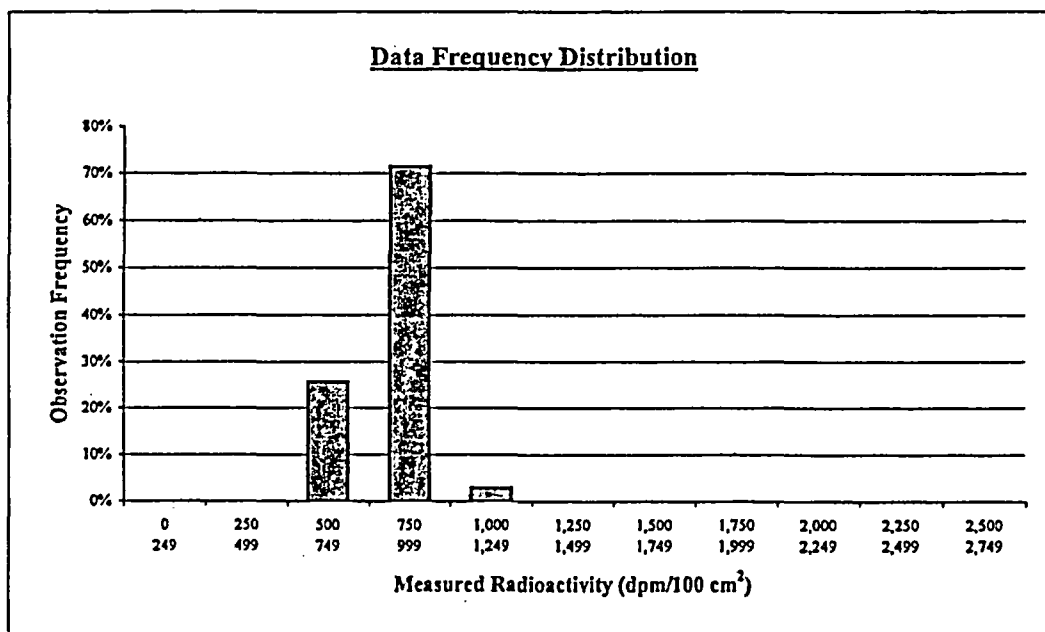
Auxiliary/Fuel Building Exhaust Fan Room Walls and Ceiling

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | |
|-------------------------|------------------|---------------------|-------------------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? |
| Range | 524 | 491 | See comment below |
| Median | 0.072 | 0.500 | Pass |
| Mean | 816 | 6,000 | Pass |
| Std Dev | 98 | 1,500 | Pass |

| Statistical Quantities | |
|------------------------|-------|
| Range: | 524 |
| Median: | 809 |
| Mean: | 816 |
| Std Dev: | 98 |
| Minimum: | 554 |
| Maximum: | 1,078 |
| DCGL: | 7,500 |

All data less than DCGL; Sign statistical test not required.



| Plot Parameters | |
|---------------------|-------|
| # of measurements: | 35 |
| # of intervals: | 11 |
| Interval increment: | 250 |
| Minimum: | 0 |
| Maximum: | 2,749 |

| Interval | High End | Low End | Number of Observations | Observation Frequency |
|----------|----------|---------|------------------------|-----------------------|
| 1 | 249 | 0 | 0 | 0% |
| 2 | 499 | 250 | 0 | 0% |
| 3 | 749 | 500 | 9 | 26% |
| 4 | 999 | 750 | 25 | 71% |
| 5 | 1,249 | 1,000 | 1 | 3% |
| 6 | 1,499 | 1,250 | 0 | 0% |
| 7 | 1,749 | 1,500 | 0 | 0% |
| 8 | 1,999 | 1,750 | 0 | 0% |
| 9 | 2,249 | 2,000 | 0 | 0% |
| 10 | 2,499 | 2,250 | 0 | 0% |
| 11 | 2,749 | 2,500 | 0 | 0% |
| Total: | | | 35 | 100% |

Comment:

Range failure is a test artifact, due to a very small variance in the data set distribution and a single value that exceeds 1,000 dpm. All data are valid and accepted.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05104A

Classification: Class 2

Survey Unit Name: AB 104' Elevation –

Size (m²): 364

Auxiliary/Fuel Building Exhaust Fan Room Walls and Ceiling

Judgmental and Miscellaneous Data

Measurement Type: Surface Scanning Beta

Scan Coverage (%): 20

Measurement Units: dpm/100cm²

Investigation Level: 7,500

Minimum Value: 822

Maximum Value: 1,298

Measurement Type: Removable Beta

Number of Measurements: 35

Measurement Units: dpm/100cm²

Investigation Level: 750

Minimum Value: 3

Maximum Value: 20

Discussion of Anomalous Measurement Data

Investigation Summary

No investigation required for this survey unit. No anomalous measurement data.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05104B

Classification: Class 2

Survey Unit Name: AB 104' Elevation -

Size (m²): 145

Spent Fuel Pool Exhaust Fan Room Upper Walls and Ceiling

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|-----------------------|------------|-------------------------|------------|-----|-----|
| 1 | 32 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 6.531e+002
 Maximum Value : 1.010e+003
 Range : 3.569e+002
 Median : 8.316e+002
 Std. Deviation : 8.142e+001
 Mean : 8.232e+002
 95% UCL : 8.476e+002

Measurement Values

| Location | Value | Location | Value |
|----------|------------|----------|------------|
| 000001 | 7.633e+002 | 000018 | 8.126e+002 |
| 000002 | 8.088e+002 | 000019 | 7.709e+002 |
| 000003 | 8.430e+002 | 000020 | 8.202e+002 |
| 000004 | 6.531e+002 | 000021 | 8.354e+002 |
| 000005 | 8.848e+002 | 000022 | 8.050e+002 |
| 000006 | 7.367e+002 | 000023 | 8.582e+002 |
| 000007 | 8.050e+002 | 000024 | 8.658e+002 |
| 000008 | 8.544e+002 | 000025 | 1.010e+003 |
| 000009 | 6.949e+002 | 000026 | 8.544e+002 |
| 000010 | 8.544e+002 | 000027 | 9.721e+002 |
| 000011 | 6.911e+002 | 000028 | 9.152e+002 |
| 000012 | 7.405e+002 | 000029 | 8.962e+002 |
| 000013 | 7.215e+002 | 000030 | 8.278e+002 |
| 000014 | 7.215e+002 | 000031 | 9.342e+002 |
| 000015 | 8.468e+002 | 000032 | 7.937e+002 |
| 000016 | 8.772e+002 | | |
| 000017 | 8.734e+002 | | |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05104B

Classification: Class 2

Survey Unit Name: AB 104' Elevation –

Size (m²): 145

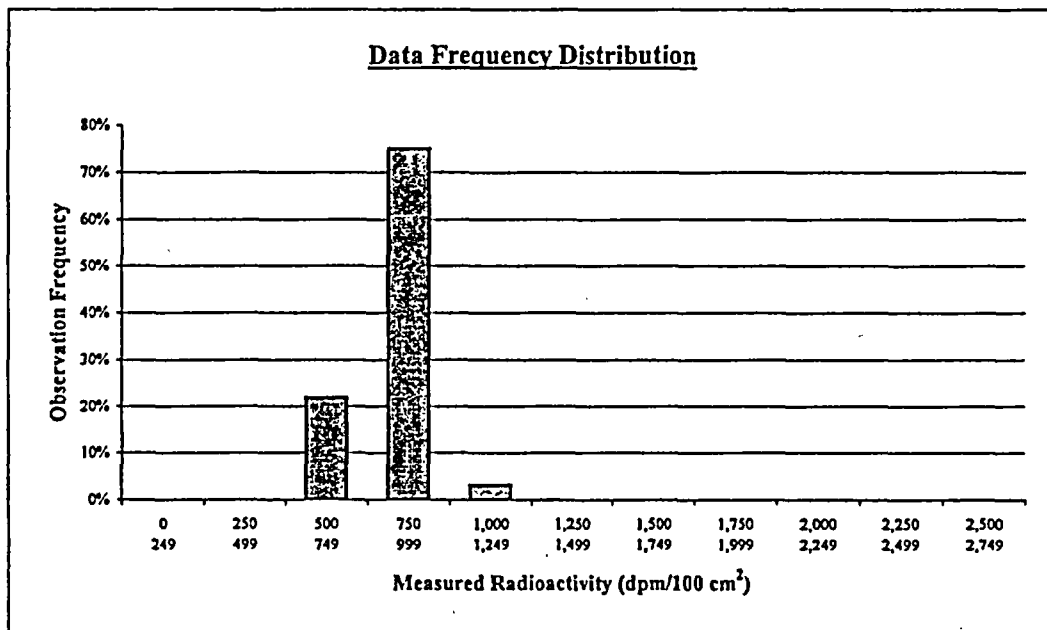
Spent Fuel Pool Exhaust Fan Room Upper Walls and Ceiling

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | |
|-------------------------|------------------|---------------------|-------------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? |
| Range | 357 | 407 | Pass |
| Median | 0.102 | 0.500 | Pass |
| Mean | 823 | 6,000 | Pass |
| Std Dev | 81 | 1,500 | Pass |

| Statistical Quantities | |
|------------------------|-------|
| Range: | 357 |
| Median: | 832 |
| Mean: | 823 |
| Std Dev: | 81 |
| Minimum: | 653 |
| Maximum: | 1,010 |
| DCGL: | 7,500 |

All data less than DCGL; Sign statistical test not required.



| Plot Parameters | |
|---------------------|-------|
| # of measurements: | 32 |
| # of intervals: | 11 |
| Interval increment: | 250 |
| Minimum: | 0 |
| Maximum: | 2,749 |

| Interval | High End | Low End | Number of Observations | Observation Frequency |
|----------|----------|---------|------------------------|-----------------------|
| 1 | 249 | 0 | 0 | 0% |
| 2 | 499 | 250 | 0 | 0% |
| 3 | 749 | 500 | 7 | 22% |
| 4 | 999 | 750 | 24 | 75% |
| 5 | 1,249 | 1,000 | 1 | 3% |
| 6 | 1,499 | 1,250 | 0 | 0% |
| 7 | 1,749 | 1,500 | 0 | 0% |
| 8 | 1,999 | 1,750 | 0 | 0% |
| 9 | 2,249 | 2,000 | 0 | 0% |
| 10 | 2,499 | 2,250 | 0 | 0% |
| 11 | 2,749 | 2,500 | 0 | 0% |
| Total: | | | 32 | 100% |

Comment:

None.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05104B **Classification:** Class 2
Survey Unit Name: AB 104' Elevation – **Size (m²):** 145
Spent Fuel Pool Exhaust Fan Room Upper Walls and Ceiling

Judgmental and Miscellaneous Data

| | |
|--|-----------------------------------|
| Measurement Type: Surface Scanning Beta | Scan Coverage (%): 20 |
| Measurement Units: dpm/100cm ² | Investigation Level: 7,500 |
| Minimum Value: 814 | Maximum Value: 1,313 |
| Measurement Type: Removable Beta | Number of Measurements: 32 |
| Measurement Units: dpm/100cm ² | Investigation Level: 750 |
| Minimum Value: 3 | Maximum Value: 21 |

Discussion of Anomalous Measurement Data

Investigation Summary

No investigation required for this survey unit. No anomalous measurement data.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05104B

Classification: Class 2

Survey Unit Name: AB 104' Elevation - Spent Fuel Pool Exhaust Fan Room Upper Walls and Ceiling

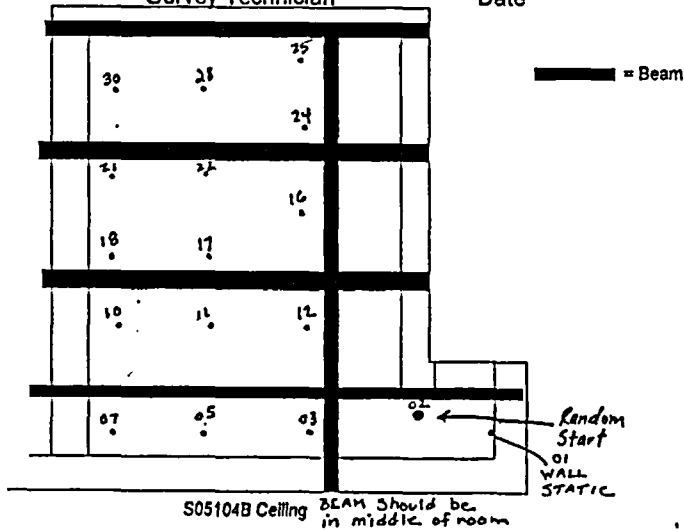
Size (m²): 145

Static Measurement Location Map

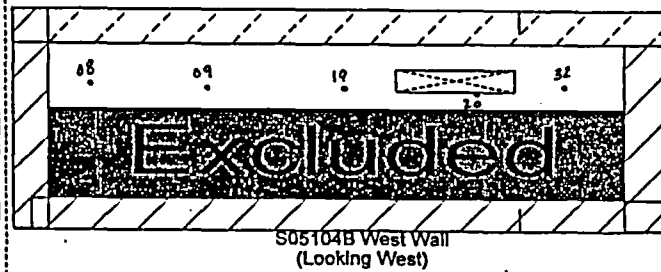
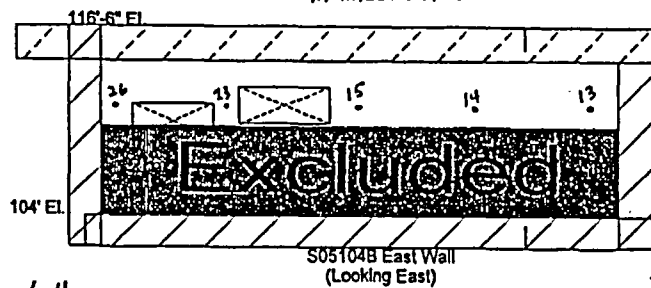
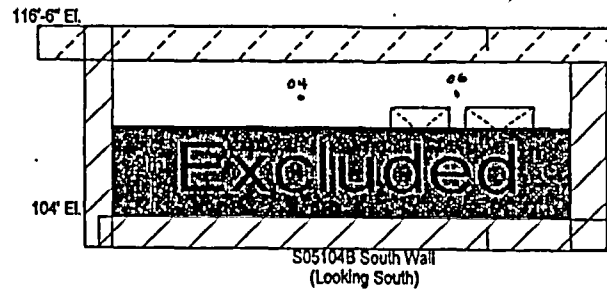
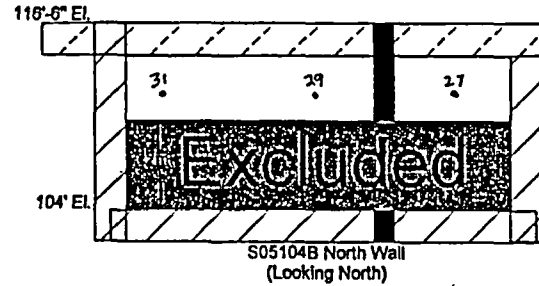


Craig Tellekamp / Craig Jullaly
 Survey Technician Date 1/10/16/2002

Ron Kenton / Ron Kenton
 Survey Technician Date 1/10/16/2002



FINAL SURVEY UNIT
 S05104B
 STATIC MEASUREMENT LOCATIONS



L = 7'2"

104Bsm1.cad

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05104C

Classification: Class 2

Survey Unit Name: AB 104' Elevation -

Size (m²): 128

Auxiliary Building Exhaust Fan Room Floor

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|-----------------------|------------|-------------------------|------------|-----|-----|
| 1 | 30 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 8.975e+002
 Maximum Value : 1.502e+003
 Range : 6.045e+002
 Median : 1.220e+003
 Std. Deviation : 1.276e+002
 Mean : 1.236e+003
 95% UCL : 1.276e+003

Measurement Values

| Location | Value | Location | Value |
|----------|------------|----------|------------|
| 000001 | 1.224e+003 | 000018 | 1.131e+003 |
| 000002 | 1.220e+003 | 000019 | 1.194e+003 |
| 000003 | 1.079e+003 | 000020 | 1.139e+003 |
| 000004 | 1.328e+003 | 000021 | 1.320e+003 |
| 000005 | 1.261e+003 | 000022 | 1.216e+003 |
| 000006 | 1.187e+003 | 000023 | 1.194e+003 |
| 000007 | 1.417e+003 | 000024 | 1.313e+003 |
| 000008 | 1.139e+003 | 000025 | 1.383e+003 |
| 000009 | 1.250e+003 | 000026 | 1.187e+003 |
| 000010 | 1.187e+003 | 000027 | 1.220e+003 |
| 000011 | 8.975e+002 | 000028 | 1.354e+003 |
| 000012 | 1.139e+003 | 000029 | 1.502e+003 |
| 000013 | 1.420e+003 | 000030 | 1.005e+003 |
| 000014 | 1.194e+003 | | |
| 000015 | 1.372e+003 | | |
| 000016 | 1.268e+003 | | |
| 000017 | 1.346e+003 | | |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05104C
 Survey Unit Name: AB 104' Elevation -
 Auxiliary Building Exhaust Fan Room Floor

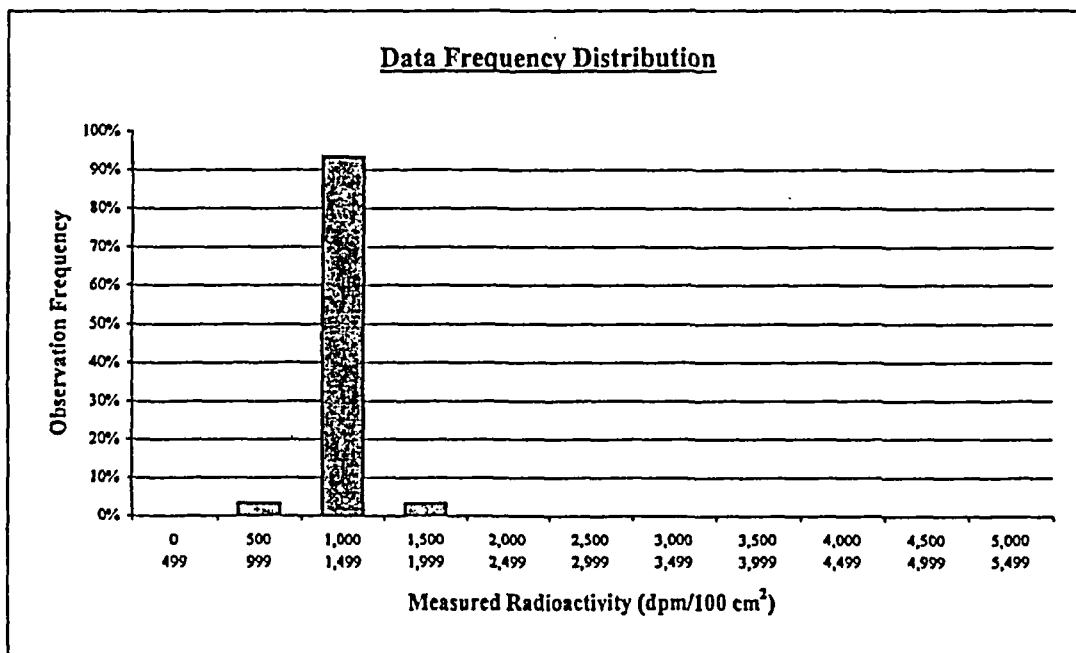
Classification: Class 2
 Size (m²): 128

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | |
|-------------------------|------------------|---------------------|-------------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? |
| Range | 604 | 638 | Pass |
| Median | 0.127 | 0.500 | Pass |
| Mean | 1,236 | 6,000 | Pass |
| Std Dev | 128 | 1,500 | Pass |

| Statistical Quantities | |
|------------------------|-------|
| Range: | 604 |
| Median: | 1,220 |
| Mean: | 1,236 |
| Std Dev: | 128 |
| Minimum: | 898 |
| Maximum: | 1,502 |
| DCGL: | 7,500 |

All data less than DCGL; Sign statistical test not required.



| Plot Parameters | |
|---------------------|-------|
| # of measurements: | 30 |
| # of intervals: | 11 |
| Interval increment: | 500 |
| Minimum: | 0 |
| Maximum: | 5,499 |

| Interval | High End | Low End | Number of Observations | Observation Frequency |
|----------|----------|---------|------------------------|-----------------------|
| 1 | 499 | 0 | 0 | 0% |
| 2 | 999 | 500 | 1 | 3% |
| 3 | 1,499 | 1,000 | 28 | 93% |
| 4 | 1,999 | 1,500 | 1 | 3% |
| 5 | 2,499 | 2,000 | 0 | 0% |
| 6 | 2,999 | 2,500 | 0 | 0% |
| 7 | 3,499 | 3,000 | 0 | 0% |
| 8 | 3,999 | 3,500 | 0 | 0% |
| 9 | 4,499 | 4,000 | 0 | 0% |
| 10 | 4,999 | 4,500 | 0 | 0% |
| 11 | 5,499 | 5,000 | 0 | 0% |
| Total: | | | 30 | 100% |

Comment:
 None.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05104C

Classification: Class 2

Survey Unit Name: AB 104' Elevation –

Size (m²): 128

Auxiliary Building Exhaust Fan Room Floor

Judgmental and Miscellaneous Data

Measurement Type: Surface Scanning Beta

Scan Coverage (%): 25

Measurement Units: dpm/100cm²

Investigation Level: 7,500

Minimum Value: 1,263

Maximum Value: 1,884

Measurement Type: Removable Beta

Number of Measurements: 30

Measurement Units: dpm/100cm²

Investigation Level: 750

Minimum Value: 50

Maximum Value: 86

Discussion of Anomalous Measurement Data

Investigation Summary

No investigation required for this survey unit. No anomalous measurement data.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05104C

Survey Unit Name: AB 104' Elevation - Auxiliary Building Exhaust Fan Room Floor

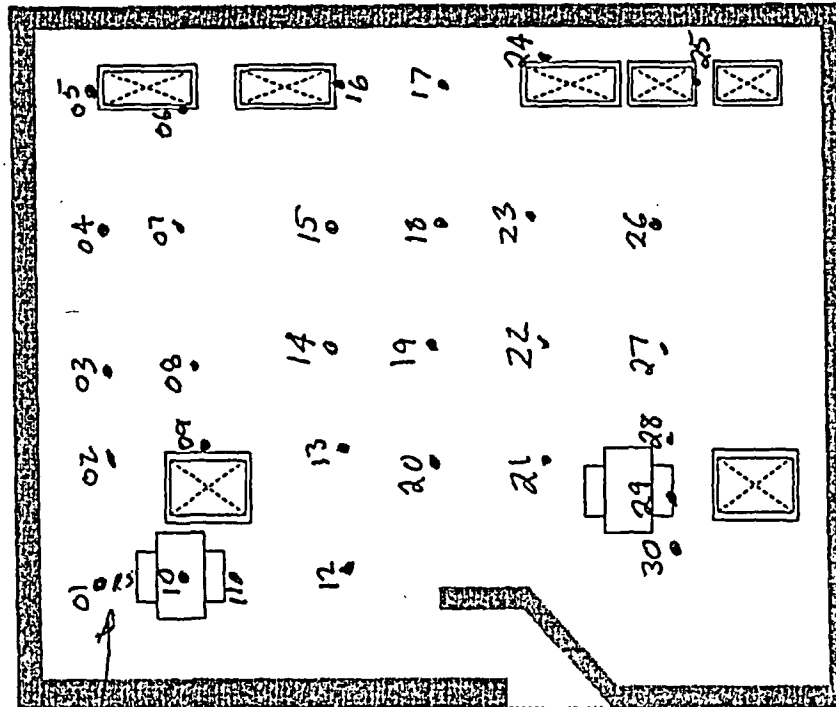
Classification: Class 2

Size (m²): 128

Static Measurement Location Map

FINAL SURVEY UNIT
S05104C

Static Measurement Locations
104' AFB Exhaust Fan Room Floor



Random start
location (CRS)

Data Collected IAW EPP 152 Rev 9
ASTANOR [Signature] 7/16/2004 Date
Survey Technician
DEAR [Signature] 7-16-2004 Date
Survey Technician

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05104E Classification: Class 1
 Survey Unit Name: AB 104' Elevation - Size (m²): 135
 Spent Fuel Pool Exhaust Fan Room Floor and Lower Walls

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|-----------------------|------------|-------------------------|------------|-----|-----|
| 1 | 34 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 8.051e+002
 Maximum Value : 1.538e+003
 Range : 7.329e+002
 Median : 1.065e+003
 Std. Deviation : 1.970e+002
 Mean : 1.109e+003
 95% UCL : 1.166e+003

Measurement Values

| Location | Value | Location | Value |
|----------|------------|----------|------------|
| 000001 | 1.198e+003 | 000018 | 8.700e+002 |
| 000002 | 1.194e+003 | 000019 | 1.065e+003 |
| 000003 | 1.252e+003 | 000020 | 9.768e+002 |
| 000004 | 1.305e+003 | 000021 | 9.310e+002 |
| 000005 | 1.129e+003 | 000022 | 8.814e+002 |
| 000006 | 1.049e+003 | 000023 | 8.814e+002 |
| 000007 | 1.431e+003 | 000024 | 1.053e+003 |
| 000008 | 1.141e+003 | 000025 | 9.577e+002 |
| 000009 | 1.194e+003 | 000026 | 1.065e+003 |
| 000010 | 1.118e+003 | 000027 | 8.051e+002 |
| 000011 | 1.419e+003 | 000028 | 8.509e+002 |
| 000012 | 1.232e+003 | 000029 | 1.110e+003 |
| 000013 | 1.530e+003 | 000030 | 8.280e+002 |
| 000014 | 1.320e+003 | 000031 | 1.030e+003 |
| 000015 | 1.538e+003 | 000032 | 9.997e+002 |
| 000016 | 1.316e+003 | 000033 | 9.615e+002 |
| 000017 | 1.011e+003 | 000034 | 1.053e+003 |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05104E

Classification: Class 1

Survey Unit Name: AB 104' Elevation -

Size (m²): 135

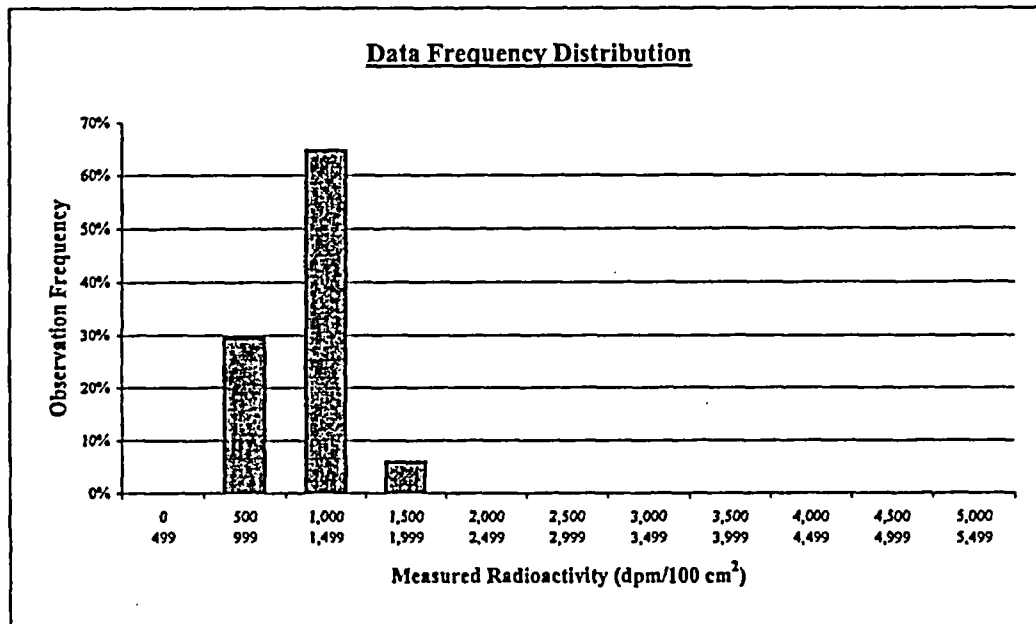
Spent Fuel Pool Exhaust Fan Room Floor and Lower Walls

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | |
|-------------------------|------------------|---------------------|-------------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? |
| Range | 733 | 985 | Pass |
| Median | 0.222 | 0.500 | Pass |
| Mean | 1,109 | 6,000 | Pass |
| Std Dev | 197 | 1,500 | Pass |

| Statistical Quantities | |
|------------------------|-------|
| Range: | 733 |
| Median: | 1,065 |
| Mean: | 1,109 |
| Std Dev: | 197 |
| Minimum: | 805 |
| Maximum: | 1,538 |
| DCGL: | 7,500 |

All data less than DCGL; Sign statistical test not required.



| Plot Parameters | |
|---------------------|-------|
| # of measurements: | 34 |
| # of intervals: | 11 |
| Interval increment: | 500 |
| Minimum: | 0 |
| Maximum: | 5,499 |

Comment:
None.

| Interval | High End | Low End | Number of Observations | Observation Frequency |
|----------|----------|---------|------------------------|-----------------------|
| 1 | 499 | 0 | 0 | 0% |
| 2 | 999 | 500 | 10 | 29% |
| 3 | 1,499 | 1,000 | 22 | 65% |
| 4 | 1,999 | 1,500 | 2 | 6% |
| 5 | 2,499 | 2,000 | 0 | 0% |
| 6 | 2,999 | 2,500 | 0 | 0% |
| 7 | 3,499 | 3,000 | 0 | 0% |
| 8 | 3,999 | 3,500 | 0 | 0% |
| 9 | 4,499 | 4,000 | 0 | 0% |
| 10 | 4,999 | 4,500 | 0 | 0% |
| 11 | 5,499 | 5,000 | 0 | 0% |
| Total: | | | 34 | 100% |

FINAL SURVEY RESULTS SUMMARY

| | |
|--|----------------------------------|
| Survey Unit ID Code: S05104E | Classification: Class 1 |
| Survey Unit Name: AB 104' Elevation – Spent Fuel Pool Exhaust Fan Room Floor and Lower Walls | Size (m²): 135 |

Judgmental and Miscellaneous Data

| | |
|--|-----------------------------------|
| Measurement Type: Surface Scanning Beta | Scan Coverage (%): 100 |
| Measurement Units: dpm/100cm ² | Investigation Level: 7,500 |
| Minimum Value: 940 | Maximum Value: 5,484 |

| | |
|--|-----------------------------------|
| Measurement Type: Removable Beta | Number of Measurements: 34 |
| Measurement Units: dpm/100cm ² | Investigation Level: 750 |
| Minimum Value: 45 | Maximum Value: 89 |

Discussion of Anomalous Measurement Data

Investigation Summary

Reason for Investigation: Four scan measurements exceeded the investigation level.

Elevated Measurement Comparison (EMC):

| | |
|---|------------------------|
| DCGL (Investigation Level): | 7,500 |
| Measurement Units: | dpm/100cm ² |
| Maximum Value: | 12,850 |
| Size of Area Exceeding DCGL (m²): | N/A |
| Size of Survey Unit (m²): | N/A |
| Survey Unit Area >DCGL (%): | N/A |
| EMC Value: | N/A |

Action Taken: Corrected measurement values for scan locations per guidance in memo FS-018-03. Replaced original scan results in SDMS with these results, all of which corrected to less than the investigation level.

Basis for Action Taken: Technical basis memorandum FS-018-03 provides guidance for correcting SDMS determined scan results for locations that exceed the investigation level by subtracting instrument background from the field results.

FINAL SURVEY RESULTS SUMMARY

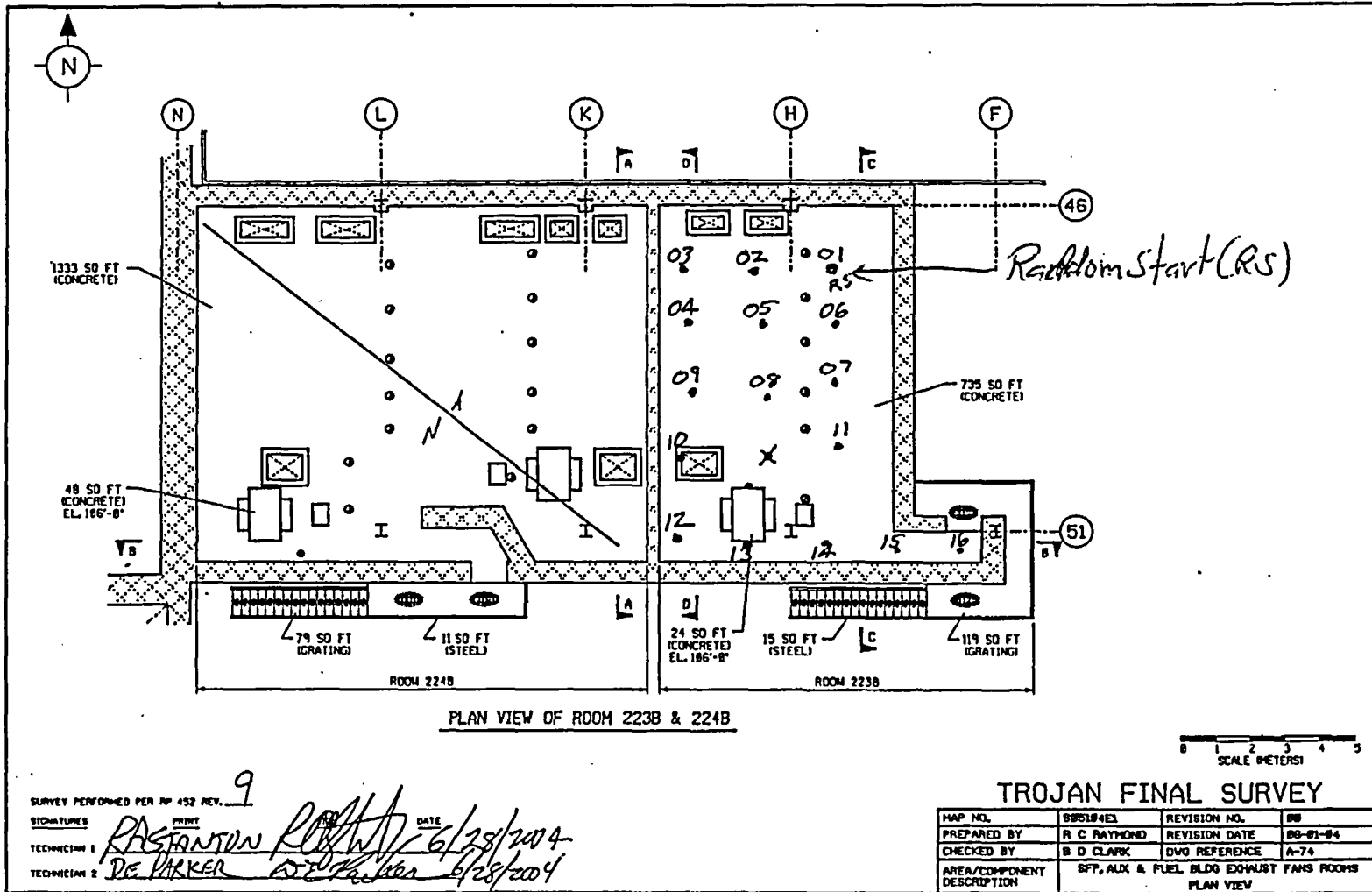
Survey Unit ID Code: S05104E

Survey Unit Name: AB 104' Elevation - Spent Fuel Pool Exhaust Fan Room Floor and Lower Walls

Classification: Class 1

Size (m²): 135

Static Measurement Location Map



SURVEY PERFORMED PER NP 452 REV. 9

TECHNICIAN 1: *R. C. Raymond* DATE: 6/28/2004

TECHNICIAN 2: *D. E. Parker* DATE: 6/28/2004

FINAL SURVEY RESULTS SUMMARY

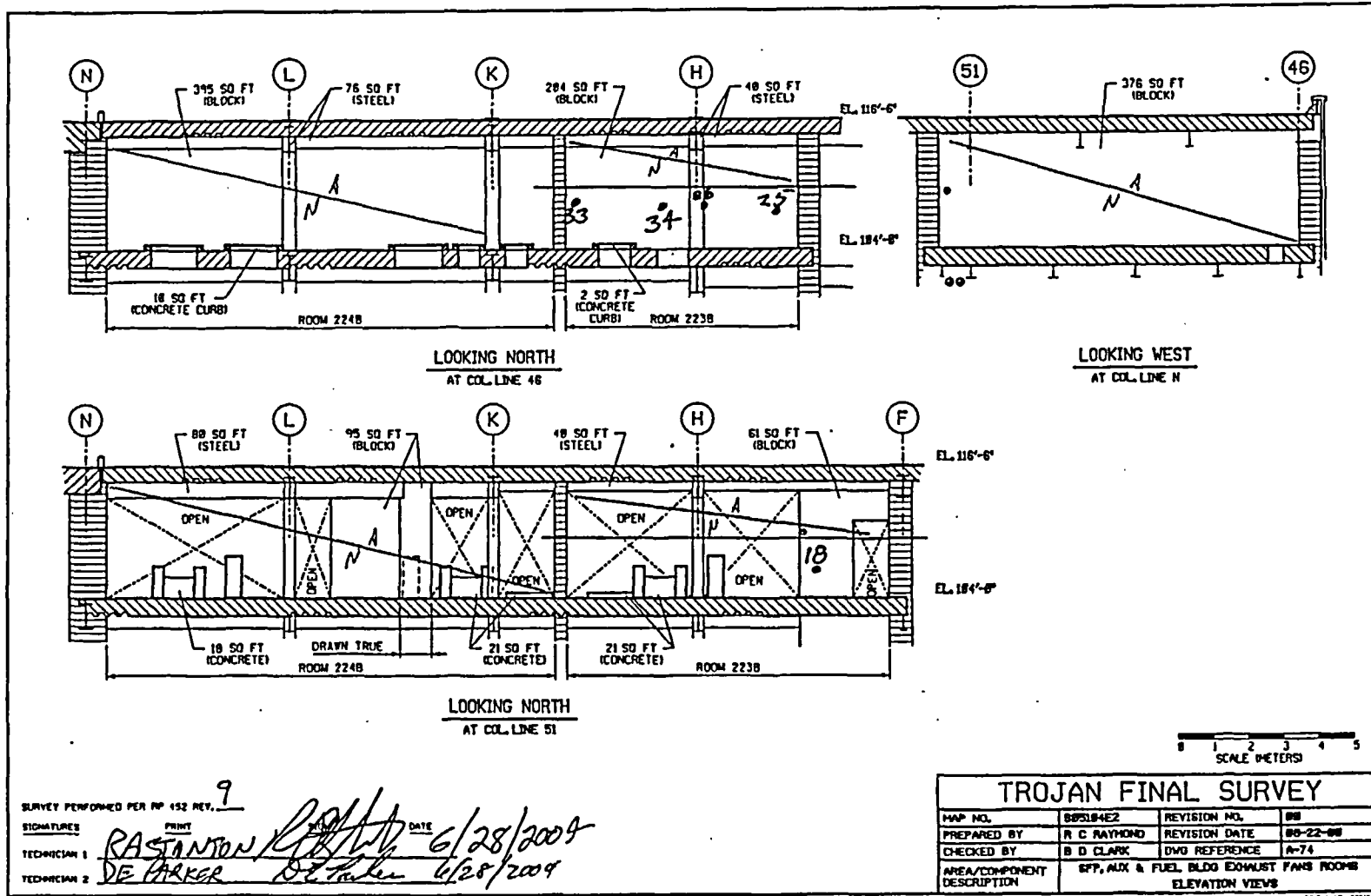
Survey Unit ID Code: S05104E

Survey Unit Name: AB 104' Elevation - Spent Fuel Pool Exhaust Fan Room Floor and Lower Walls

Classification: Class 1

Size (m²): 135

Static Measurement Location Map



SURVEY PERFORMED PER RP 152 REV. 9

SIGNATURES: *R. Parker* PRINT: *R. Parker* DATE: *6/28/2004*

TECHNICIAN 1: *R. Parker*

TECHNICIAN 2: *D. Parker* DATE: *6/28/2004*

FINAL SURVEY RESULTS SUMMARY

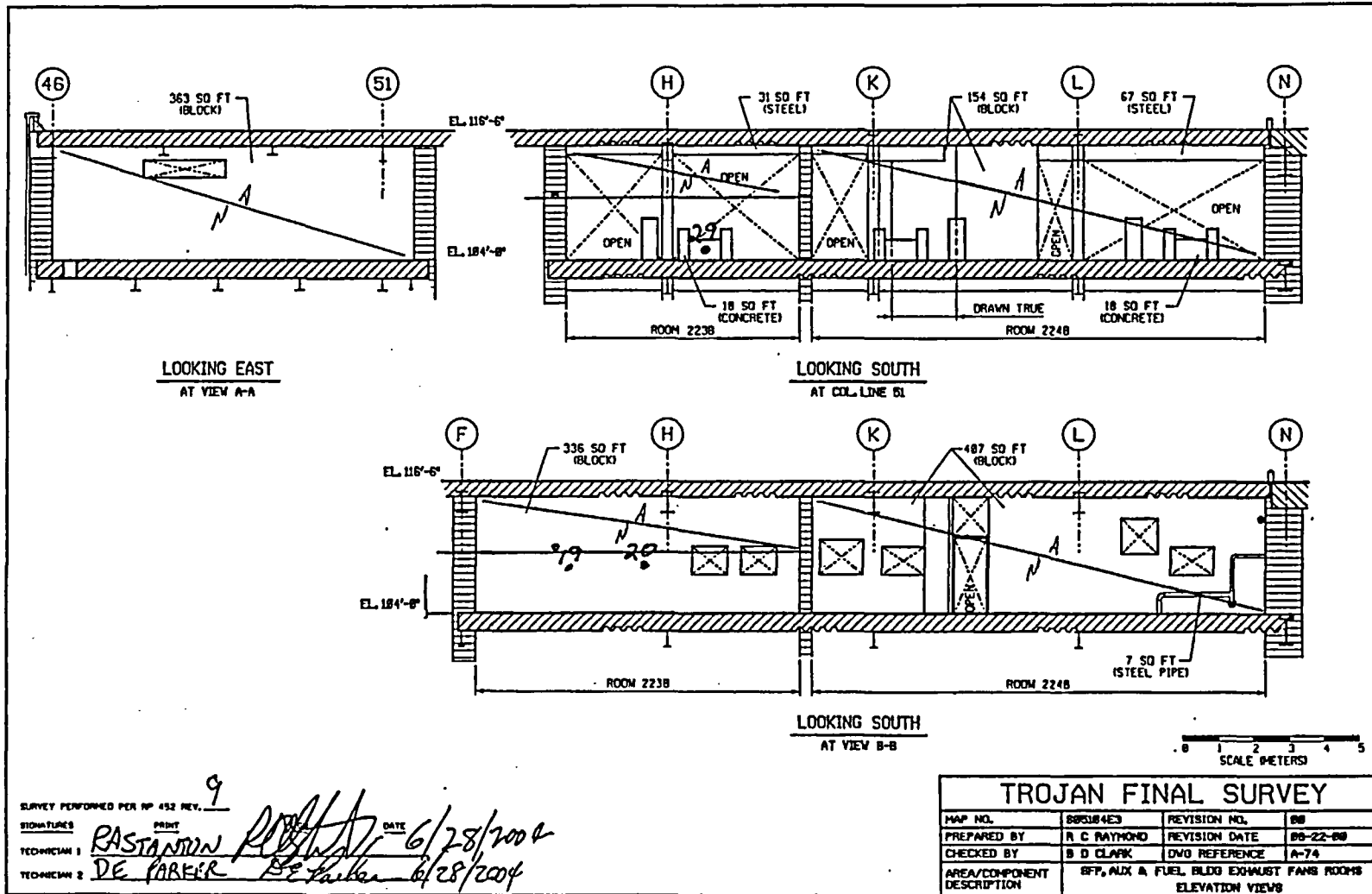
Survey Unit ID Code: S05104E

Classification: Class 1

Survey Unit Name: AB 104' Elevation – Spent Fuel Pool Exhaust Fan Room Floor and Lower Walls

Size (m²): 135

Static Measurement Location Map



FINAL SURVEY RESULTS SUMMARY

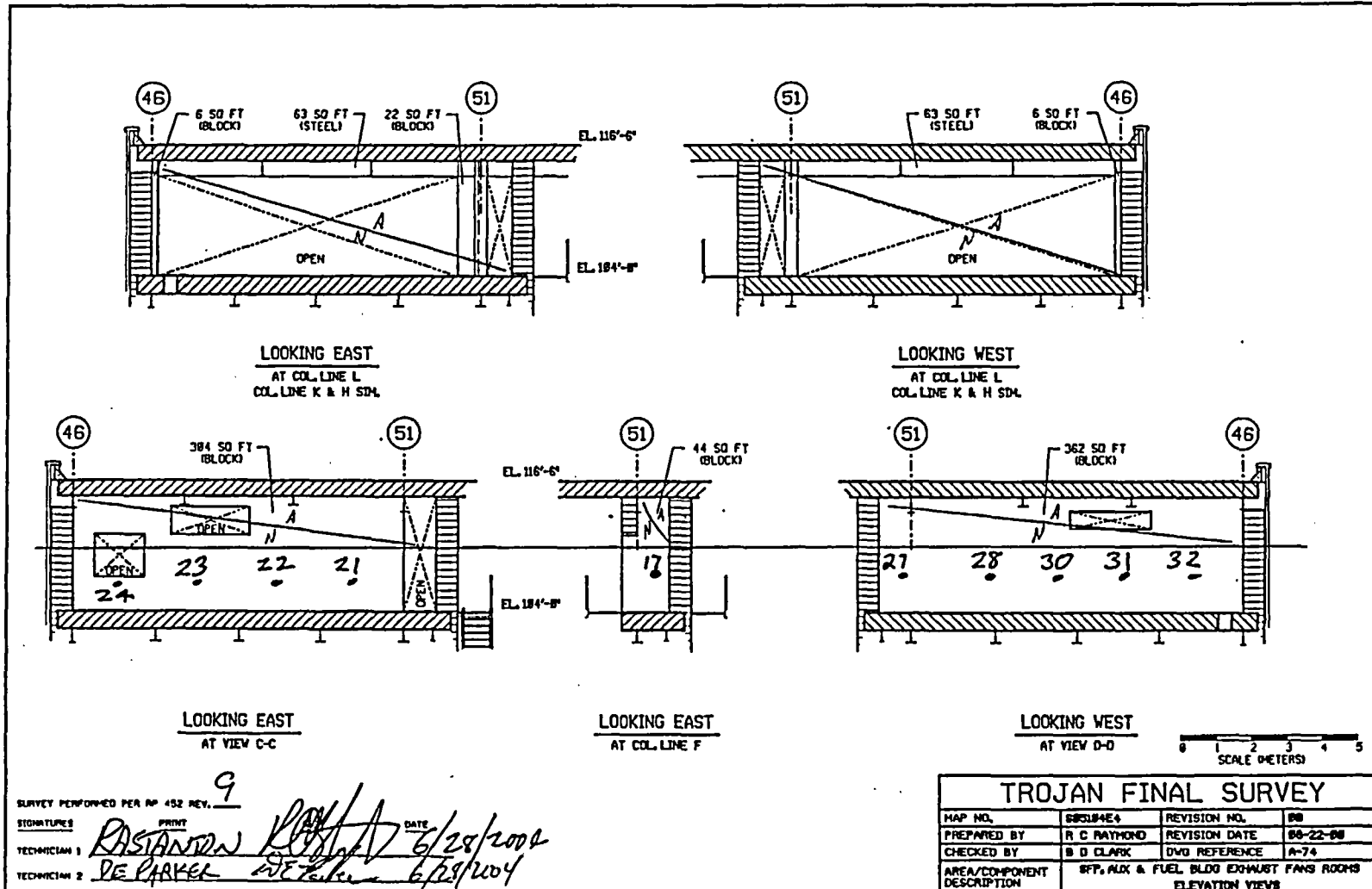
Survey Unit ID Code: S05104E

Classification: Class 1

Survey Unit Name: AB 104' Elevation - Spent Fuel Pool Exhaust Fan Room Floor and Lower Walls

Size (m²): 135

Static Measurement Location Map



SURVEY PERFORMED PER RP 452 REV. 9

TECHNICIAN 1: R. STANTON DATE: 6/28/2004

TECHNICIAN 2: DE PARKER DATE: 6/29/2004

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05105A

Classification: Class 1

Survey Unit Name: AB 105' Elevation -

Size (m²): 49

Containment Purge Exhaust Room Ceiling

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|-----------------------|------------|-------------------------|------------|-----|-----|
| 1 | 32 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 9.173e+002
 Maximum Value : 1.272e+003
 Range : 3.547e+002
 Median : 1.123e+003
 Std. Deviation : 8.281e+001
 Mean : 1.104e+003
 95% UCL : 1.129e+003

Measurement Values

| Location | Value | Location | Value |
|----------|------------|----------|------------|
| 000001 | 1.021e+003 | 000018 | 1.141e+003 |
| 000002 | 9.173e+002 | 000019 | 1.133e+003 |
| 000003 | 1.017e+003 | 000020 | 1.053e+003 |
| 000004 | 1.101e+003 | 000021 | 1.153e+003 |
| 000005 | 1.184e+003 | 000022 | 1.073e+003 |
| 000006 | 1.041e+003 | 000023 | 1.177e+003 |
| 000007 | 9.492e+002 | 000024 | 1.049e+003 |
| 000008 | 1.089e+003 | 000025 | 1.017e+003 |
| 000009 | 1.272e+003 | 000026 | 1.153e+003 |
| 000010 | 1.129e+003 | 000027 | 1.097e+003 |
| 000011 | 9.771e+002 | 000028 | 1.141e+003 |
| 000012 | 1.244e+003 | 000029 | 1.049e+003 |
| 000013 | 1.117e+003 | 000030 | 1.200e+003 |
| 000014 | 1.169e+003 | 000031 | 1.184e+003 |
| 000015 | 1.145e+003 | 000032 | 1.161e+003 |
| 000016 | 1.149e+003 | | |
| 000017 | 1.025e+003 | | |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05105A
 Survey Unit Name: AB 105' Elevation -
 Containment Purge Exhaust Room Ceiling

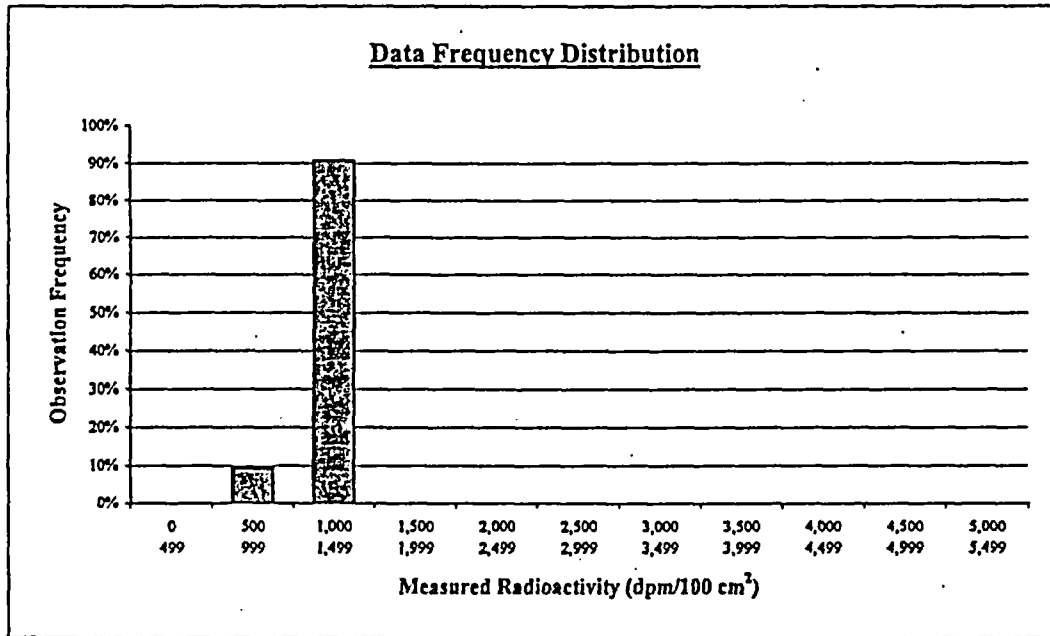
Classification: Class 1
 Size (m²): 49

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | |
|-------------------------|------------------|---------------------|-------------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? |
| Range | 355 | 414 | Pass |
| Median | 0.230 | 0.500 | Pass |
| Mean | 1,104 | 6,000 | Pass |
| Std Dev | 83 | 1,500 | Pass |

All data less than DCGL; Sign statistical test not required.

| Statistical Quantities | |
|------------------------|-------|
| Range: | 355 |
| Median: | 1,123 |
| Mean: | 1,104 |
| Std Dev: | 83 |
| Minimum: | 917 |
| Maximum: | 1,272 |
| DCGL: | 7,500 |



| Plot Parameters | |
|---------------------|-------|
| # of measurements: | 32 |
| # of intervals: | 11 |
| Interval increment: | 500 |
| Minimum: | 0 |
| Maximum: | 5,499 |

Comment:
None.

| Interval | High End | Low End | Number of Observations | Observation Frequency |
|----------|----------|---------|------------------------|-----------------------|
| 1 | 499 | 0 | 0 | 0% |
| 2 | 999 | 500 | 3 | 9% |
| 3 | 1,499 | 1,000 | 29 | 91% |
| 4 | 1,999 | 1,500 | 0 | 0% |
| 5 | 2,499 | 2,000 | 0 | 0% |
| 6 | 2,999 | 2,500 | 0 | 0% |
| 7 | 3,499 | 3,000 | 0 | 0% |
| 8 | 3,999 | 3,500 | 0 | 0% |
| 9 | 4,499 | 4,000 | 0 | 0% |
| 10 | 4,999 | 4,500 | 0 | 0% |
| 11 | 5,499 | 5,000 | 0 | 0% |
| Total: | | | 32 | 100% |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05105A

Classification: Class 1

Survey Unit Name: AB 105' Elevation –

Size (m²): 49

Containment Purge Exhaust Room Ceiling

Judgmental and Miscellaneous Data

Measurement Type: Surface Scanning Beta

Scan Coverage (%): 100

Measurement Units: dpm/100cm²

Investigation Level: 7,500

Minimum Value: 1,114

Maximum Value: 5,209

Measurement Type: Removable Beta

Number of Measurements: 32

Measurement Units: dpm/100cm²

Investigation Level: 750

Minimum Value: 42

Maximum Value: 86

Discussion of Anomalous Measurement Data

Investigation Summary

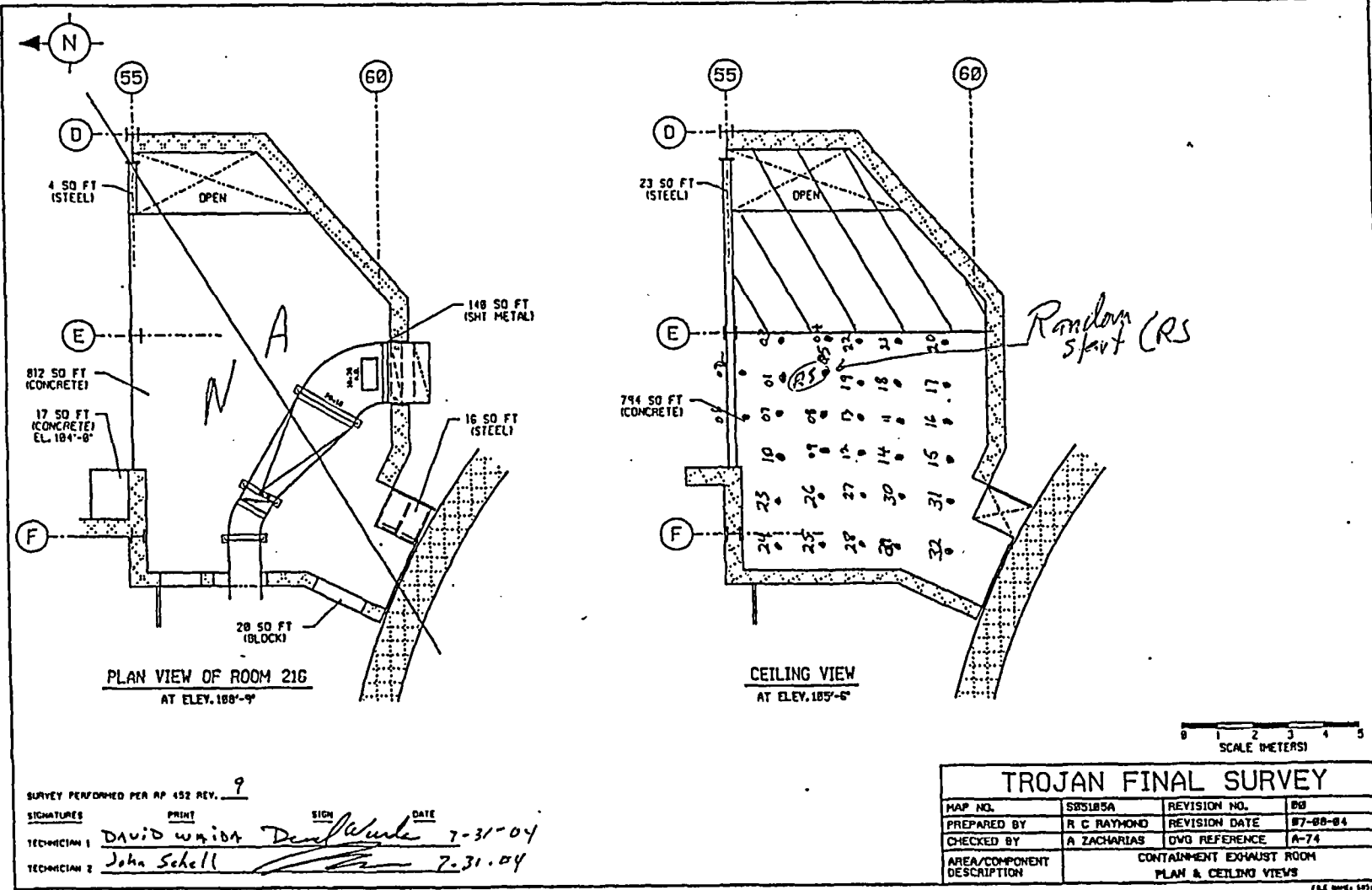
No investigation required for this survey unit. No anomalous measurement data.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: S05105A
 Survey Unit Name: AB 105' Elevation - Containment Purge Exhaust Room Ceiling

Classification: Class 1
 Size (m²): 49

Static Measurement Location Map



FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: P62032A
 Survey Unit Name: AB/FB HVAC

Classification: Class 1
 Size (m²): N/A

Data Quality Values

Type 1 Error : 5.000e-002 Type 2 Error : 5.000e-002
 Relative Shift : 3.000e+000

| Measurement Type Code | # Of Meas. | Measurement Unit | DCGL | SGN | WRS |
|-----------------------|------------|-------------------------|------------|-----|-----|
| 1 | 30 | DPM/100 CM ² | 7.500e+003 | - | - |

Statistical Quantities

Measurement Name:
 Minimum Value : 5.636e+002
 Maximum Value : 3.132e+003
 Range : 2.568e+003
 Median : 9.463e+002
 Std. Deviation : 5.193e+002
 Mean : 1.093e+003
 95% UCL : 1.254e+003

Measurement Values

| Location | Value | Location | Value |
|----------|------------|----------|------------|
| 000001 | 9.940e+002 | 000018 | 1.407e+003 |
| 000002 | 3.132e+003 | 000019 | 9.417e+002 |
| 000003 | 8.167e+002 | 000020 | 9.114e+002 |
| 000004 | 7.706e+002 | 000021 | 8.810e+002 |
| 000005 | 8.588e+002 | 000022 | 1.037e+003 |
| 000006 | 5.636e+002 | 000023 | 1.116e+003 |
| 000007 | 1.047e+003 | 000024 | 1.043e+003 |
| 000008 | 8.550e+002 | 000025 | 9.508e+002 |
| 000009 | 6.633e+002 | 000026 | 1.066e+003 |
| 000010 | 8.627e+002 | 000027 | 8.243e+002 |
| 000011 | 6.786e+002 | 000028 | 8.243e+002 |
| 000012 | 6.556e+002 | 000029 | 2.231e+003 |
| 000013 | 1.089e+003 | 000030 | 1.817e+003 |
| 000014 | 1.330e+003 | | |
| 000015 | 7.860e+002 | | |
| 000016 | 1.445e+003 | | |
| 000017 | 1.204e+003 | | |

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: P62032A
 Survey Unit Name: AB/FB HVAC

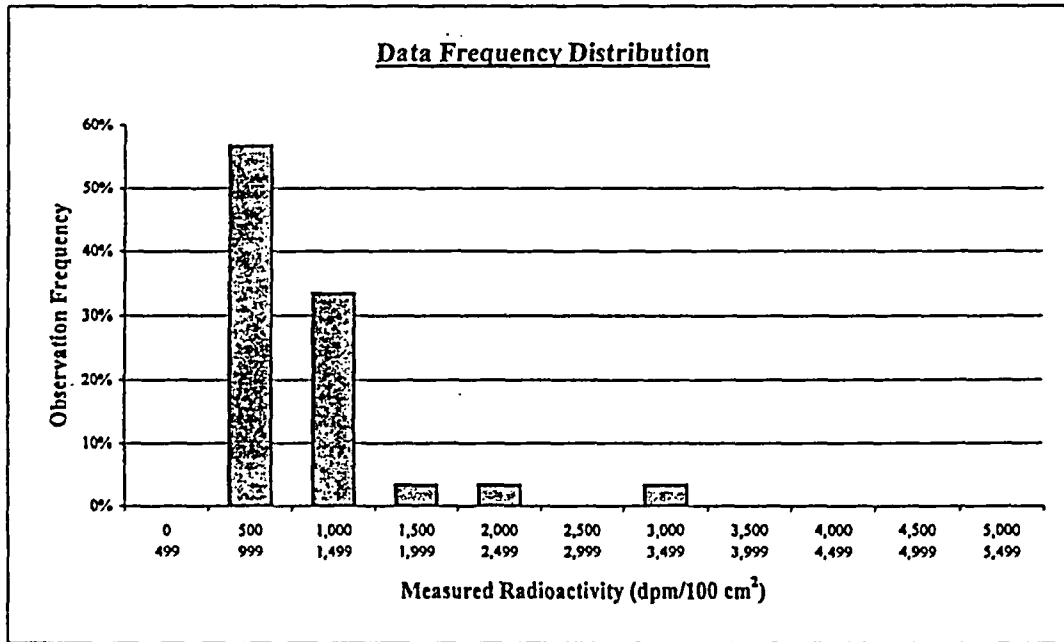
Classification: Class 1
 Size (m²): N/A

Measurement Data Statistical Evaluation

| Statistical Comparisons | | | |
|-------------------------|------------------|---------------------|-------------|
| Test | Calculated Value | Acceptance Criteria | Acceptable? |
| Range | 2,568 | 2,596 | Pass |
| Median | 0.283 | 0.500 | Pass |
| Mean | 1,093 | 7,500 | Pass |
| Std Dev | 519 | 1,500 | Pass |

All data less than DCGL; Sign statistical test not required.

| Statistical Quantities | |
|------------------------|-------|
| Range: | 2,568 |
| Median: | 947 |
| Mean: | 1,093 |
| Std Dev: | 519 |
| Minimum: | 564 |
| Maximum: | 3,132 |
| DCGL: | 7,500 |



| Plot Parameters | |
|---------------------|-------|
| # of measurements: | 30 |
| # of intervals: | 11 |
| Interval increment: | 500 |
| Minimum: | 0 |
| Maximum: | 5,499 |

| Interval | High End | Low End | Number of Observations | Observation Frequency |
|----------|----------|---------|------------------------|-----------------------|
| 1 | 499 | 0 | 0 | 0% |
| 2 | 999 | 500 | 17 | 57% |
| 3 | 1,499 | 1,000 | 10 | 33% |
| 4 | 1,999 | 1,500 | 1 | 3% |
| 5 | 2,499 | 2,000 | 1 | 3% |
| 6 | 2,999 | 2,500 | 0 | 0% |
| 7 | 3,499 | 3,000 | 1 | 3% |
| 8 | 3,999 | 3,500 | 0 | 0% |
| 9 | 4,499 | 4,000 | 0 | 0% |
| 10 | 4,999 | 4,500 | 0 | 0% |
| 11 | 5,499 | 5,000 | 0 | 0% |
| Total: | | | 30 | 100% |

Comment:
 The measurement value 3,132 dpm at location 02 is in beta scan area 002, and is consistent with the scan measurement value of 3,459 dpm.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: P62032A
 Survey Unit Name: AB/FB HVAC

Classification: Class 1
 Size (m²): N/A

Judgmental and Miscellaneous Data

Measurement Type: Surface Scanning Beta
 Measurement Units: dpm/100cm²
 Minimum Value: 962

Scan Coverage (%): *
 Investigation Level: 7,500
 Maximum Value: 8,691

Measurement Type: Removable Beta
 Measurement Units: dpm/100cm²
 Minimum Value: 49

Number of Measurements: 30
 Investigation Level: 750
 Maximum Value: 170

Discussion of Anomalous Measurement Data

Investigation Summary

Reason for Investigation: One scan measurement exceeded the investigation level.

Elevated Measurement Comparison (EMC):

| | |
|--|------------------------|
| DCGL (Investigation Level): | 7,500 |
| Measurement Units: | dpm/100cm ² |
| Maximum Value: | 8,691 |
| Size of Area Exceeding DCGL (m ²): | 0.02 |
| Size of Survey Unit (m ²): | >100 |
| Survey Unit Area >DCGL (%): | <0.02 |
| EMC Value: | 36,750 |

Action Taken: Applied EMC data processing to results for scan location 025 that remains elevated.

Basis for Action Taken: Very small, localized area of elevated radioactivity identified during scan survey is less than 1 m².

* 100% of accessible surfaces. See exception in Section 3.6 of this report and details in the Supplement to Appendix G.

FINAL SURVEY RESULTS SUMMARY

Survey Unit ID Code: P62032A
 Survey Unit Name: AB/FB HVAC

Classification: Class 1
 Size (m²): N/A

Static Measurement Location Map

