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RF/RMRS-99-476.UN

Closeout Radiological Survey Report

For Building 779,

Main Building

Rocky Mountain Remediation Services, L.L.C.

Millennium Services Inc

Revision 0

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CLOSEOUT RADIOLOGICAL SURVEY REPORT FOR BUILDING 779, MAIN BUILDING

REVISION 0

DECEMBER 1999

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Acronyms

cpm	Counts Per Minute
CRSP	Closeout Radiological Survey Plan
D&D	Decontamination and Decommissioning
$DCGL_W$	Derived Concentration Guideline Level – Wilcoxon Rank Sum test
$DCGL_{EMC}$	Derived Concentration Guideline Level – Elevated Measurement Comparison
DOE	U S Department of Energy
dpm	Disintegrations Per Minute
DQA	Data Quality Assessment
DQO	Data Quality Objectives
FSS	Final Status Survey
FSSP	Final Status Survey Plan
FSSR	Final Status Survey Report
HSA	Historical Site Assessment
LBGR	Lower Bound of the Gray Region
MARSSIM	Multi-Agency Radiation Survey and Site Investigation Manual
MDA	Minimum Detectable Activity
MDC	Minimum Detectable Concentration
NIST	National Institute of Standards & Technology
NORM	Naturally Occurring Radioactive Material
PRE	Project Radiological Engineer
PSPC	Position Sensitive Proportional Counter
QA	Quality Assurance
QA/QC	Quality Assurance/Quality Control
QC	Quality Control
RCT	Radiological Control Technician
RE	Radiological Engineer
REFS	Radiological Engineering Field Services
RESS	Radiological Engineering Support Services
RFETS	Rocky Flats Environmental Technology Site
SAC-4	Scintillation Alpha Counter
SCM/SIMS	Surface Contamination Monitor/Survey Information Management System
SRA	Shonka Research Associates
TSA (TSC)	Total Surface Activity (or Total Surface Contamination)
V&V	Verification and Validation

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Abstract

This report contains final survey data for the 1st and 2nd floors of the main building, the two utility rooms, the crossover between Annex A and the 2nd floor main, the south end of the loading dock, and the associated exterior surfaces Total and removable surface contamination surveys and scan surveys were performed in each main building survey unit Paint/surface media samples were collected in survey units 77905, 77906, 77930, 77933, 77936, 77939, 77940, 77942, 77944, and 77947 The number/frequency of surveys/samples collected in each survey unit was based on the guidance provided in the Multi-Agency Radiation Survey and Site Investigation Manual (MARSSIM)

All survey/sample results presented in this report meet the DCGLs as defined by the Closeout Radiological Survey Plan for the 779 Cluster

1.0 Introduction

Building 779 was originally constructed in 1965, with additions in 1968 and 1973 The mission of Building 779 was primarily as a nuclear weapons research and development center, and an analytical laboratory in support of Plutonium Operations As stated in the abstract above, this report contains final survey data for the 1st and 2nd floors of the main building, the two utility rooms, the crossover between Annex A and the 2nd floor main, the south end of the dock, and the associated exterior surfaces The final surveys for other portions of Building 779 and the Building 779 cluster are documented in separate, stand-alone reports

The main building is a two-story structure The utility rooms (rooms 127 and 142) and the loading dock are single-level structures that are connected to the north and east side of Building 779 The exterior walls of the main building are cinder block and concrete The exterior walls of the loading dock are galvanized steel, cinder block and concrete

The main building contained numerous laboratories and support facilities that were utilized for nuclear weapons research and development Numerous floor, walls and ceiling surfaces were hydrolased or scabbled to remove paint

2.0 Final Survey Details

Final surveys were limited to alpha contamination surveys Characterization beta-gamma surveys on the floors and existing lower walls obtained in required survey units did not indicate the presence of any beta-gamma contamination in excess of the applicable DCGLs The surveys consisted of the following

- removable beta contamination measurements counted on Eberline BC-4 systems
- total beta activity and beta gamma scans as measured with the Shonka SCM system

In many of the survey areas, the walls, which were intended for beta characterization, were removed and disposed of as low-level waste Therefore, only the floors in many of the rooms were surveyed for beta

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The areas were stripped of radiologically contaminated process piping prior to the performance of final surveys All contaminated and non-contaminated penetrations in the slab were grouted and will remain until environmental restoration is accomplished

Small areas where contamination penetrated into the concrete substrate were remediated Some of the remediated areas in the slab such as boltholes were at a depth greater than 3/8 of an inch For these cases, all accessible surfaces were surveyed Since the slab will be remediated at a later time when environmental restoration is performed, the total and removable activity surveys on the surfaces are deemed acceptable No contamination in excess of the applicable DCGLs exists on accessible building surfaces

An expansion joint in the floor area in rooms 131, 133, and 137 adjacent to room 142 contained high levels of contamination on the concrete surface (up to 1 9 million dpm/100 cm^2) The decision was made to utilize a jackhammer and remove a major section of the floor along the expansion joint until no contamination greater than 100 dpm/100 cm^2 was detected However, the soil beneath the slab, which has a considerable amount of contamination, will remain until the Environmental Restoration (ER) phase of the project Four soil samples were obtained in order to provide the ER group with additional characterization information All exposed soil was covered with grout

Additionally, an expansion joint in the floor area between rooms 131 and 126, and a metal plate between rooms 126 and 127, contained high levels of contamination up to 420,000 dpm/100 cm^2 The decision was made to utilize a jackhammer and remove a major section of the floor along the expansion joint until no contamination greater than 100 dpm/100 cm^2 was detected However, the soil underneath the slab, which has a considerable amount of contamination, will remain until the Environmental Restoration (ER) phase of the project All exposed soil was covered with grout

One radioactive waste crate was transported through Room 142 (survey unit 77941) after final survey scans had been completed However, removable and total activity contamination surveys were performed after the crate was transported through the survey unit to ensure no cross contamination had occurred All remediation support survey results were less than the applicable $DCGL_W$

Prior to demolition, a large plate will be placed over the entrance to the basement (Room 001, survey unit 77943) The plate will be sealed to prevent water from entering the basement from above The basement will not be included in this final report, and a separate report will be prepared for survey unit 77943 at a later date

Prior to demolition, a protective plate will be placed over a penetration in room 127 (survey unit 77948) because the metal rim of the floor drain is contaminated up to approximately 11,000 dpm/100 cm^2

Several locations of alpha contamination above the $DCGL_W$ were detected on the lower walls of room 127 The affected areas were remediated, however, this resulted in increasing the scan survey density for the upper walls to 100% In addition, alpha contamination above the $DCGL_W$ was detected on the horizontal surfaces of the roof support beams The beams will be 100% scanned after remediation as a result of this finding No contamination was detected on the corrugated ceiling, therefore a 10% scan

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was required for this surface with bias surveys adjacent to the contaminated beams No contamination was detected on these surfaces
Two runs of radiologically "clean" pipe (fire protection and supply steam), which were inaccessible for removal and final survey due to their location in the overhead, will remain in Room 127 during demolition Surveys were performed on accessible penetrations on adjacent piping and no contamination above the applicable DCGLs was detected The pipe will be segregated, surveyed, and disposed of as recycle metal during demolition

The galvanized steel walls and ceiling of the dock are outside the scope of final survey, and were evaluated and released per a Release Evaluation in accordance with 3-PRO-141-RSP-09 01, *Unrestricted Release of Property, Material, Equipment, and Waste*, prior to building demolition and released via Release Evaluation (#991101-00779-001) The material will remain on the building during demolition, and will be segregated from building rubble after demolition

3.0 Survey Unit Descriptions

The Main Building Report consists of rooms 103–142, 215–235 and 273-277 (including the associated hallways, stairwells, and airlocks), the south end of the loading dock, and the building exterior (east, west, south walls and the roof) The north side of the north wall was surveyed and documented in the Closeout Radiological Survey Report for Building 779, Annex A

Utilizing process history, characterization surveys and in-process surveys, the survey units were classified in accordance with MARSSIM and the Building 779 Cluster Closeout Radiological Survey Plan (CRSP)

The main building consisted of three survey areas that were further broken down into twenty-one survey units (refer to Table 3 1 below) More detailed survey unit justifications are delineated in each survey unit package located in the project files

Table 3.1
Survey Unit Classifications

Survey Unit	Description	Justification for Classification	Remediation Required	Class
77905	Main Building exterior walls and roof	Class 2 due to the potential spread of contamination from outside areas (e g , solar ponds Building 776 fire)	A few spots of contamination were detected on the roof as a result of the strip-out of ducting The area was remediated and detailed characterization surveys performed	2
77906	Main Building utility rooms exterior walls and roof	Class 2 due to the potential spread of contamination from outside areas (e g solar ponds Building 776 fire)	None	2
77930	Crossover to annex A and Ramp Area Portion of Bridge to Building 777	Class 1 due to contamination detected during characterization	Significant scabbling on floors, walls ceiling Drywall was removed from the crossover, outside panels pulled back	1
77931	Room 222A	Class 1 due to contamination detected during characterization	Floors, walls, and ceiling scabbled	1

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77932	Room 217	Class 1 due to contamination detected during characterization	100% Scabble/hydrolase of painted surfaces	1
Survey Unit	**Description**	**Justification for Classification**	**Remediation Required**	**Class**
77933	Rooms 219/221/221A/221B/ 221C/223/225/229/ 230/231/232/233/235/271/273/274 /275/277	Class 2 due to potential for contamination in office areas	1 spot of contamination was removed	2
77934	Rooms 218/220	Class 1 due to contamination detected during characterization	100% Scabble/hydrolase of painted surfaces	1
77935	Rooms 222/222A	Class 1 due to contamination detected during characterization	100% Scabble/hydrolase of painted surfaces	1
77936	Rooms 129/224/226	Class 1 due to contamination detected during characterization	100% Scabble/hydrolase of painted surfaces, cinderblock in doorway removed	1
77937	Rooms 228	Class 1 due to contamination detected during characterization	100% Scabble/hydrolase of painted surfaces	1
77938	Rooms 234/234A/234B	Class 1 due to contamination detected during characterization	100% Scabble/hydrolase of painted surfaces, cinderblock in doorway removed	1
77939	Rooms 103/103A/103B/118/120/121/121A /121B/173	Class 2 due to potential for contamination in non process areas	7 small spots of contamination were removed	2
77940	Walls & Ceiling in rooms 122/123/126/127/142	Class 2 due to potential for contamination in non process areas	3 walls in room 123 were removed Remaining walls and pedestal in 123 were 100% scabbled/hydrolased Several small spots of contamination removed in Rooms 126 and 127	2
77941	Floor in rooms 142/143	Class 1 due to contamination detected during characterization	100% Scabble/hydrolase of the floor	1
77942	Rooms 119/124/125/128/132/ 134/135/136/138	Class 2 due to potential for contamination in non process areas	2 small spots of contamination were removed	2
77944	Rooms 130/131/133	Class 1 due to contamination detected during characterization	100% Scabble/hydrolase of the floor, a large section of the slab was removed down to the soil below a major section of wall removed or scabbled, a large area of ceiling was scabbled	1
77945	Room 137	Class 1 due to contamination detected during characterization	100% Scabble/hydrolase of the floor, a large area of ceiling scabbled	1
77946	Rooms 139	Class 1 due to contamination detected during characterization	100% Scabble/hydrolase of the painted surfaces cinderblock in doorway was removed	1
77947	Rooms 140/140A/140B/141/ 141A/141B/141C	Class 1 due to contamination detected during characterization	Scabble/hydrolase most painted surfaces cinderblock in doorway was removed	1
77948	Floor in rooms 122/123/126/127	Class 1 due to contamination detected during characterization	100% Scabble/hydrolase of floor	1
77950	South end of the loading dock (Floor)	Class 1 due to contamination detected during characterization	1 meter x 1 meter section of floor scabbled	1

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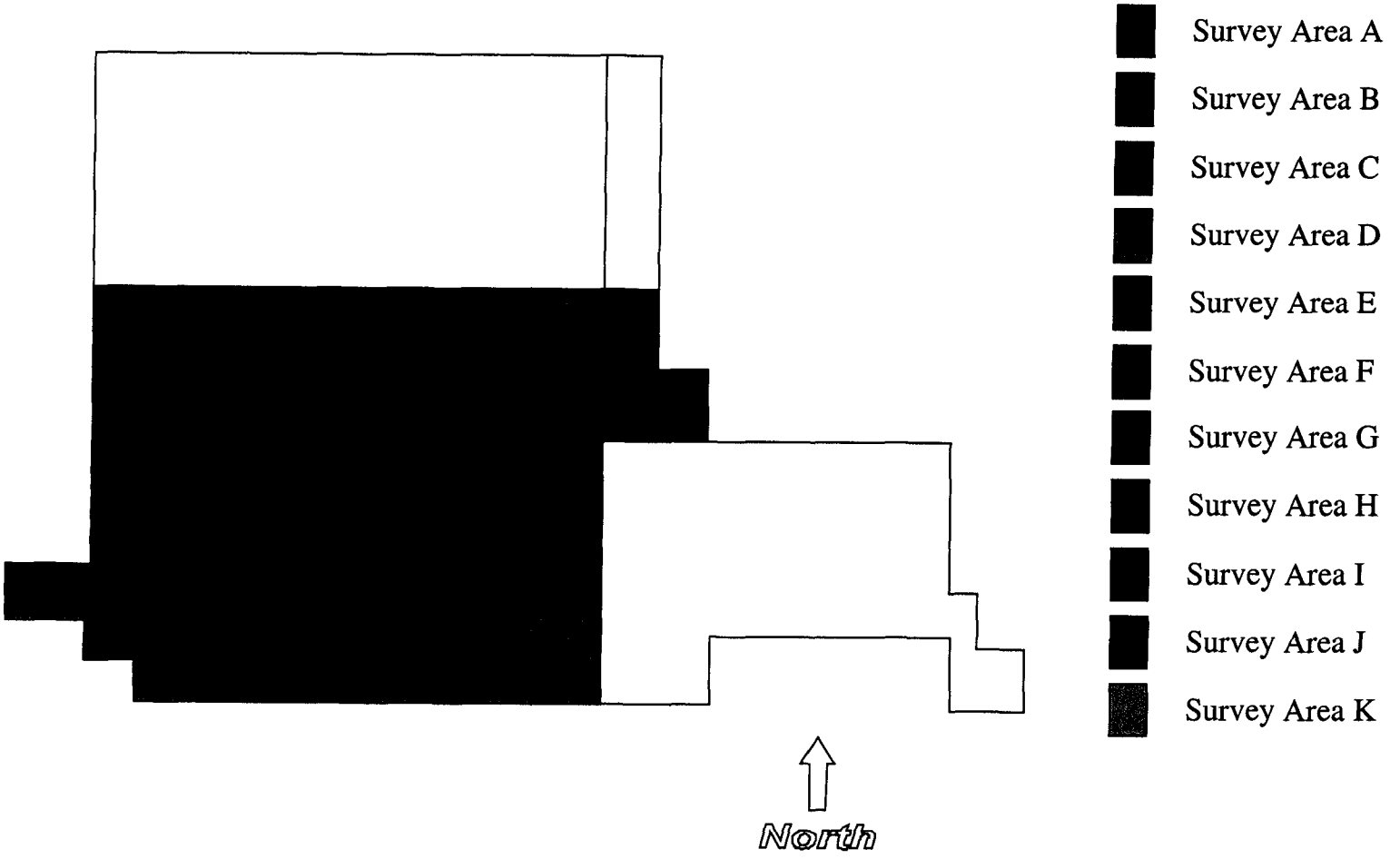
4.0 Overview Maps

Figures 4 1, 4 2, and 4 3 depict an exterior and interior view of the Main Building, respectively

Figure 4.1
Main Building Exterior Overview Map



Best Available Copy (color)

Figure 4 2
Main Building First Floor Interior Overview Map

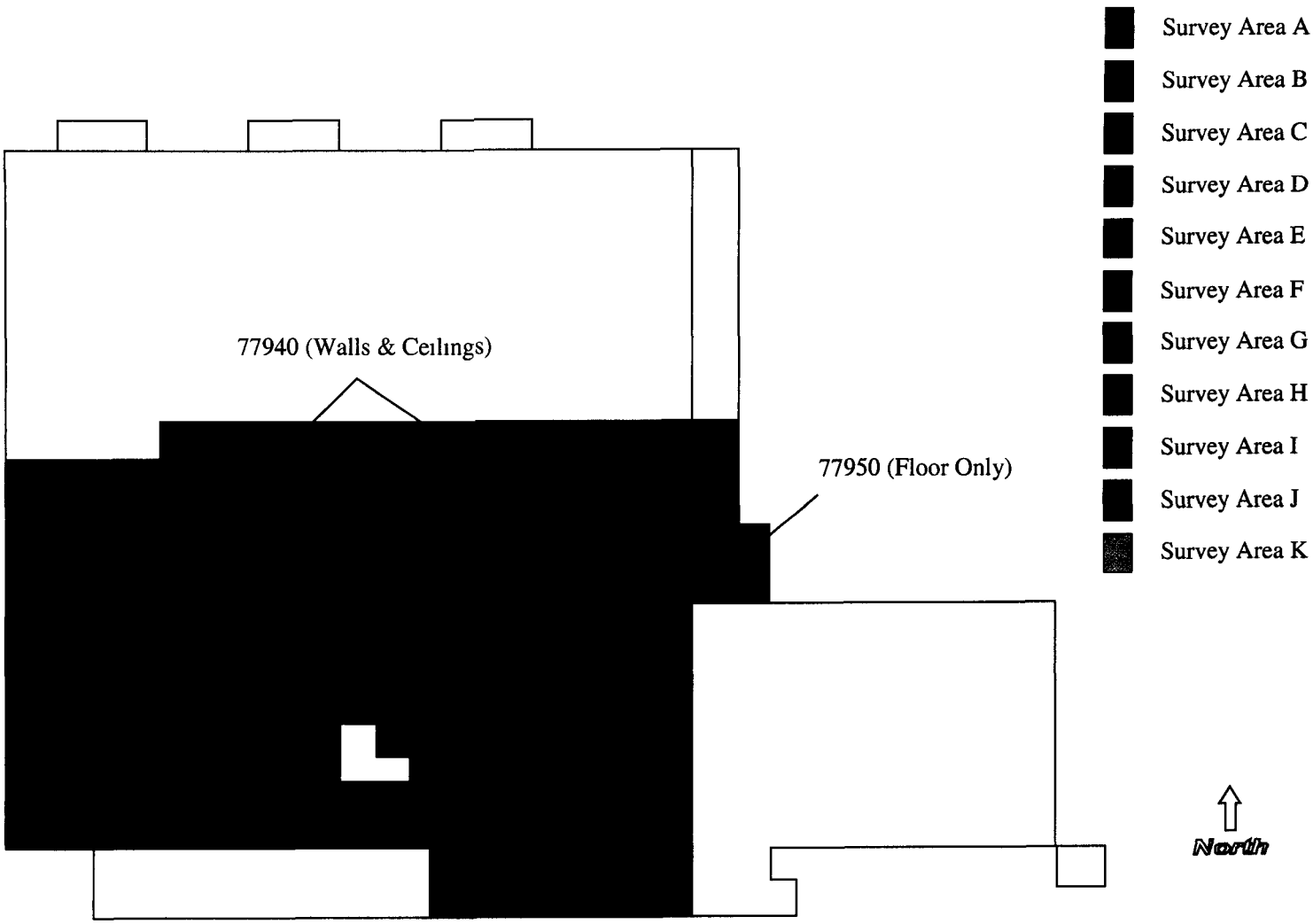


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Figure 4 3
Main Building Second Floor Interior Overview Map

5.0 Scope of Work

5.1 Paint/Surface Media Samples

Paint/surface media samples were obtained in the following survey units to ensure contamination did not exist below painted surfaces or other forms of surface media such as roofing material, floor adhesive, or within the paint or roofing/adhesive material itself

77905	77933	77940	77947
77906	77936	77942	
77930	77939	77944	

No samples were collected from the following Class 1 survey units because the paint or surface media was removed prior to final survey (surface media disposed of as low-level waste)

77931	77934	77938	77946
77932	77935	77941	
77948	77937	77945	

In addition, no samples were collected from Class 1 survey unit 77950 because the area was bare concrete, and had not been previously painted

No volumetric samples were collected due to the fact that there was no evidence (as discovered during the historical site assessment, characterization, and final status surveys) that contamination had migrated into cinder block, concrete, or any other base material and disappeared from the surface Total surface activity measurements and surface media sampling were utilized as the detection methods for any contamination that occurred on building surfaces

The sample collection method for coated surfaces (paint or adhesive) involved the collection of cover material to a depth where the underlying base material was exposed

The quantity of samples was determined based on MARSSIM statistical calculations to satisfy Impacted Class 1 or 2 survey requirements The calculation methodology for the number of media samples is presented in the Closeout Radiological Survey Plan for the 779 Cluster (Section 5 2 6 2) Based on the pre-survey calculations included in each survey package, the following are required for each survey unit

- A minimum of 15 surface media samples per 100 m^2 floor area for Class 1 survey units
- A minimum of 15 surface media samples per 1000 m^2 floor area for Class 2 survey units

A biased sample design was utilized in survey units 77933 and 77947 due to the fact that surface media only remained on a small percentage of the surface area and at sporadic locations throughout the survey unit Thus, a systematic sampling grid was not practical in these areas However, the guidelines presented in MARSSIM for determining the minimum number of measurements was utilized in these areas

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Summaries of the media sample results for these areas are presented in Tables 10 1 and 10 2

A biased sample design was also utilized in survey unit 77944 due to the fact that the surface media was removed from most surfaces based on the initial final survey scan and sample results Thus, surface media only remained on the ceiling of Rooms 131, 133, and 130, and on the upper walls of Room 130 As a result, the media sample results for the remediated areas are omitted from the Data Summary (Attachment Q) The media sample results for the remaining (painted) areas are presented in Tables 10 1 and 10 2, and in Attachment Q

Refer to Building 779 project files for raw survey data and additional final survey details

A portion of survey unit 77908, including media sample data for locations 11–14 (located on the south end of the dock roof) was moved to survey unit 77906 because the bounds of survey unit 77906 were extended The north end of the dock (survey unit 77908) was included in the "A" Annex Closeout Radiological Survey Report

Instrument calibration, maintenance, source check requirements, data reduction and MDC equations are controlled per applicable Kaiser Hill Analytical Services Division procedures (refer to Attachment Y, Data Quality Assessment, for additional references)

5.2 Removable Surface Contamination Surveys

Removable surface contamination surveys were obtained in each survey unit to ensure that removable contamination did not exist above the Building 779 Cluster applicable DCGL The quantity of removable contamination measurements was determined based on MARSSIM statistical calculations as presented in the Closeout Radiological Survey Plan for the 779 Cluster, RF/RMRS-97-123 UN (Section 5 2 6 2) Based on the pre-survey calculations included in each survey package, the following are required for each survey unit

- A minimum of 15 removable contamination measurements per 100 m^2 floor area for Class 1 survey units
- A minimum of 15 removable contamination measurements per 1000 m^2 floor area for Class 2 survey units

Refer to Building 779 project files for raw survey data and additional final survey details

A portion of survey unit 77908, including media sample data for locations 11–14 (located on the south end of the dock roof) was moved to survey unit 77906 because the bounds of survey unit 77906 were extended The north end of the dock (survey unit 77908) was included in the "A" Annex Closeout Radiological Survey Report

Smears were counted on a SAC-4 Instrument calibration, maintenance, source check requirements, data reduction and MDC equations are provided in 3-PRO-112-RSP-02 01, Revision 1, "Radiological Instrumentation"

Smears that were obtained following the collection of media samples (in order to verify that all potentially contaminated surface media was removed with the sample) were less than 20 dpm/100 cm^2

5.3 Total Surface Activity Surveys

Total surface activity surveys were obtained in each survey unit to ensure the average total activity levels did not exist above the Building 779 Cluster $DCGL_W$s The number of total surface activity surveys was determined based on MARSSIM statistical calculations as presented in the Closeout Radiological Survey Plan for the 779 Cluster (Section 5 2 6 2) Based on the pre-survey calculations included in each survey package, the following are required for each survey unit

- A minimum of 15 total surface contamination measurements per 100 m^2 floor area for Class 1 survey units
- A minimum of 15 total surface contamination measurements per 1000 m^2 floor area for Class 2 survey units

Refer to Building 779 project files for raw survey data and additional final survey details

A portion of survey unit 77908, including media sample data for locations 11–14 (located on the south end of the dock roof) was moved to survey unit 77906 because the bounds of survey unit 77906 were extended The north end of the dock (survey unit 77908) was included in the "A" Annex Closeout Radiological Survey Report

Post-sampling total surface activity measurements that were obtained following the collection of media samples (in order to verify that all potentially-contaminated surface media was removed with the sample) were less than 100 dpm/100 cm^2

The Total Surface Activity measurements were performed with a NE Electra with the 100-cm^2 DP6 detector The survey count time was ninety seconds Local area background determinations are discussed in Section 7 0 Instrument calibration, maintenance, source check requirements, as well as data reduction and MDC equations are provided in 3-PRO-112-RSP-02 01, Revision 1, "Radiological Instrumentation"

The NE Electra MDC is verified in a radiological engineering site operations technical basis document entitled "Methods to Demonstrate Compliance with Performance Requirements for Swipe Counting and Portable Contamination Survey Instrumentation used to Evaluate Property and Waste for Unrestricted Release", dated June 7, 1995

5.4 Scan Surveys

Surface scans were conducted in each survey unit per two methods 1) with the position-sensitive SCM system and 2) with conventional hand-held NE Electra dual scintillation detectors The two methods are described in the following sections

5.4.1 SCM/SIMS Scan Surveys

The majority of the surface scans were conducted using the Surface Contamination Monitor/Survey Information Management System (SCM/SIMS) developed by Shonka Research Associates, Inc (SRA) The SCM/SIMS system consists of a position sensitive proportional counter (PSPC) coupled to a computerized data acquisition system The PSPC is a long detector that acts as an array of many small radiation

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detectors This allows the instrument to measure more area per unit time than a smaller detector and still separate out localized areas of contamination

The SCM/SIMS detector surface area is 1800 cm^2 Corner detectors were utilized to survey all interior survey units in the Main Building (rolling detectors were only utilized for survey units 77905 and 77906) The corner detector is a PSPC used in a static count mode with data binned in 5-cm increments The corner detector accumulates data for ten seconds The longer count time eliminated the need for a recount The output of the corner detector is integrated into the SIMS software

Surveys were conducted in accordance with equipment operation and calibration procedures developed by SRA and incorporated in the Millennium Services, Inc Quality Assurance Plan Detector efficiencies were determined with a NIST traceable Plutonium-238 source with an active area of approximately 50 cm^2 and an alpha energy of 5 5 MeV The energy of the source is similar to the 5 1 MeV α of Plutonium-239, the principle isotope of the primary suspected contaminant Periodic quality control checks were performed for each detector in use, and used to establish the efficiency for the detectors based on data that spanned the use of that detector during the survey (refer to Section 8 0) All quality control checks were performed under the same operating and environmental conditions as the surveys in accordance with applicable operating procedures

The SCM/SIMS sensitivity for the surveys performed in the Main Building is documented in the B779 project file The Minimum Detectable Concentration (MDC) for alpha surveys with the corner detector (10-second count interval) for 100 cm^2 areas is approximately 80 dpm (refer to Evaluation of Surface Contamination Monitor/Survey Information Management (SCM/SIMS) for the identification of contamination against the $DCGL_{EMC}$ for the 779 Closure Project at the Rocky Flats Environmental Technology Site) The MDC for the rolling detector (at a speed of 0 8 inches/second) is approximately 150 dpm/100 cm^2 (All RFETS-specified instrument performance requirements are satisfied with SCM/SIMS survey methodology based on data discussion provided in Appendix 5 of the CRSR for Building 729, RF/RMRS-99-358 UN

5.4.2 NE Electra Scan Surveys

Areas that were not scanned with the SCM/SIMS were scanned with the hand-held NE Electra with 100 cm^2 DP6 probes or NE Electra Plus with 600 cm^2 DP8 probes

The scan rate for the DP6 was established as 1 5 inches per second in order to comply with the recommendations for probabilities of detection provided in ANSI N13 12, *Draft American National Standards Control of Radioactive Surface Contamination on Materials, Equipment, and Facilities to be Released for Uncontrolled Use* Scanned areas in excess of 225 dpm/100 cm^2 were flagged If no flags were identified during the scan, the scan result was recorded as <225 dpm/100 cm^2 (refer to Tables A 1 through A 21 in Attachment A)

Areas scanned with the DP8 detectors consisted of eight-second static counts In the event that the eight-second count exceeded 225 dpm/100 cm^2, two additional measurements were performed at the same location If one of the two additional measurements exceeded 225 dpm/100 cm^2, an investigation was performed

Differentiation between SCM and handheld instrument surveys is captured within each individual survey package that is maintained in the project files

6.0 DCGLs

The surface contamination criteria from DOE Order 5400 5 were used as the DCGLs for the final survey The applicable transuranic $DCGL_W$ for removable contamination, total surface activity measured by direct surface emission, and paint/media samples is as follows

Category	$DCGL_W$ Removable Alpha (dpm/100 cm^2)	$DCGL_W$ Total Alpha (dpm/100 cm^2)	$DCGL_{EMC}$ Total Alpha (dpm/100 cm^2)
Transuranic	20	100	300
Uranium	N/A	5000	15,000

7.0 Background

Final radiological surveys of the Main Building were focused on alpha emitting isotopes, principally Plutonium-239 and Plutonium-240 Natural activity present in construction materials was not expected to contribute a significant amount to the field measurements Historical data from other RFETS building indicates that surface emission rates from concrete, typically the material containing the highest quantities of naturally-occurring alpha-emitting isotopes, would contribute negligible activity when compared to the $DCGL_{EMC}$ Therefore, no material background subtract was performed for alpha surface scan measurements, and results were compared directly to the applicable $DCGL_{EMC}$ defined in Section 6 0

For total surface activity data collected with the NE Electra, a ninety-second background measurement was collected at each total surface activity location The average of these measurements was calculated, and the mean value subtracted from total surface activity measurements to obtain the net total surface activity results Refer to the Attachments B through V for local area background results

Paint/Surface media samples were analyzed by alpha spectroscopy methods Individual isotopic data results are contained in Attachments B through V Transuranic isotopes are not present in natural radioactivity, therefore no background concerns exist Uranium isotopes, though present in nature, are not expected to exist in significant quantities in paint/surface media samples As in surface activity measurements, total reported activity from paint/surface media sample analyses was evaluated against the applicable uranium or transuranic $DCGL_W$ defined in Section 6 0

Other than instrument background, which is quantified prior to analysis, background is not a factor during performance of removable contamination surveys Reported values from the removable contamination surveys were evaluated against the applicable $DCGL_W$ defined in Section 6 0

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8.0 Quality Assurance/Quality Control

Quality control for each type of instrument utilized in the Main Building survey is discussed in the sections below An additional quality control element includes the Software Quality Control Checklists (Verification of Calculations) This document was generated for each survey unit (refer to Building 779 Project files) to verify calculations within the data summaries (Attachments B through V) A data quality assessment (DQA) was also generated to discuss how the project implemented MARSSIM data quality guidelines and applicable DOE quality requirements (Attachment Y)

8.1 Paint/Surface Media Samples

Measures of laboratory precision and accuracy were assessed per applicable laboratory procedures All QA data indicated that sample results were valid (refer to Attachment Y, Data Quality Assessment)

8.2 Removable Surface Contamination Surveys

The instruments utilized for removable surface contamination analysis (Eberline SAC-4) were calibrated with NIST-traceable sources A daily background and QC check was also performed All background and QC checks were within required tolerances as delineated in the Building 779 CRSP RF/RMRS-97-123 UN (also refer to Attachment Y, Data Quality Assessment)

8.3 Total Surface Activity Surveys

An additional 5% of total surface activity measurements were obtained for quality control purposes (refer to Attachments B through V) The results from these measurements were compared to the applicable $DCGL_W$ to ensure survey compliance (i e , all QC measurements were less than $DCGL_W$) All QC measurements were less than $DCGL_W$ (refer to Attachment Y, Data Quality Assessment)

8.4 Scan Surveys

8 4.1 SCM/SIMS Scan Surveys

Quality control surveys for SCM/SIMS scans were performed with a NIST traceable Plutonium-238 source with an activity of 194,400 dpm The source, RFETS ID# RS3911, Manufacturer's ID ER716, is a 71 mm x 71 mm (approximately 50 cm^2) plated source The source manufacturer's certificate is in the 779 Closure Project file Quality control surveys consisted of a minimum of three measurements of the source by the detector in the configuration used in the actual survey Corner detector quality control surveys consisted of measurements of the source placed on a surface and the data acquisition set for the survey time (i e , 10 seconds)

A quality control survey was performed at the beginning and end of each detector use each day and periodically during the surveys The response of the detector over the duration of its use became the basis for the detector's efficiency Additionally, each survey was evaluated to ensure that it was bracketed by acceptable quality control

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surveys At least two of the three measurements must fall within the specified tolerance (within 20% of the mean of all quality control surveys for each specific detector) in order for the data to be considered valid The above criteria were satisfied Therefore, the detector results were considered valid

Source checks were conducted daily prior to start of survey, whenever the detector configuration was changed, and whenever any other electronic adjustments or maintenance was performed The mean of the valid quality control surveys, determined from all acceptable results over the duration of the survey, was used to establish the efficiency for a specific detector Attachment X includes the quality control charts for the SCM/SIMS detectors used during the survey

8.4.2 NE Electra Scan Surveys

Performance checks were performed on the NE Electra prior to field use The results were required to fall within the established range (± 20% in accordance with the applicable Radiological Safety Procedures) in order for the instrument and the associated data to be considered valid (refer to Attachment Y, Data Quality Assessment)

9.0 Investigation Methodology

Follow up investigations were conducted for each scan result in excess of 75% of the $DCGL_{EMC}$ (225 dpm/100cm^2) by performing a survey of the flagged area with a hand held instrument, the NE Electra with a DP6 probe

Investigation surveys utilizing the NE Electra were performed by first scanning the surrounding suspect area to determine if any elevated activity areas could be identified Following the scan, a local area background measurement (ninety second count) and an direct measurement (ninety second count) were obtained in the area of highest activity identified during the scan

Remediation and a follow-up survey were performed at each confirmed location that produced a NE Electra result in excess of 225 dpm/100 cm^2 (as described in Tables A 1 through A 21 in Attachment A)

Each investigation measurement was documented on an investigation form In some cases, more than one investigation result was documented for a given grid All scan investigation results are presented in Tables A 1 through A 21 in Attachment A

Some areas, which were immediately flagged as elevated by the technicians performing the SCM survey (areas that were obviously contaminated were identified via red color-coding on the SCM output screen), were typically decontaminated prior to the performance of the NE Electra investigation

During the removal of paint from rooms 218 through 234B, a temporary wall was erected to prevent the spread of contamination into areas that had been final surveyed During the hydrolasing process water migrated under the temporary wall All areas that had water leakage were re-surveyed, and the most recent results were reported No contamination was detected during this incident

Re-surveys were performed in final surveyed areas, which were adjacent to areas where extensive remediation activities were performed This was done to verify that no contamination originating from the D&D activities resulted in a spread of contamination to these areas

10.0 Survey Results

10.1 Paint/Surface Media Samples

Paint/surface media samples were obtained in the survey units as stated in the 1st table in Section 5 1 to ensure contamination did not exist below painted surfaces or other forms of surface media such as roofing material, floor adhesive, or within the paint or roofing/adhesive material itself These results were converted to units of surface activity (dpm/100 cm^2) in order to compare to the DCGLs No samples were collected from the Class 1 survey units listed in the 2nd table of Section 5 1 because the paint or surface media was removed prior to final survey In addition, no samples were collected from Class 1 survey unit 77950 because the area was bare concrete, and had not been previously painted

Alpha spectroscopy was performed to determine the activity of Uranium-233/234, Uranium-235, Uranium-238, Plutonium-239/240, and Americium-241 Values for each isotope(s) are reported separately The data for the survey units where media samples were obtained was below the applicable total uranium and total transuranic $DCGL_W$ The number of media samples obtained was verified to be adequate by re-calculating the required number of samples with the actual survey unit sample standard deviation (refer to the "Post Survey Paint/Media Sample Summary Statistics Calculation Verification Worksheet" in the Building 779 project files, for each applicable survey unit) Tables 10 1 and 10 2 summarize the results of the paint/surface media samples

Table 10.1
Paint/Surface Media Summary Results for Transuranics

	Alpha Activity (dpm/100 cm^2)				
Survey Unit	Minimum	Maximum	Mean	Standard Deviation	$DCGL_W$
77905	-0 6	5 4	1 1	1 4	100
77906	0 6	85 5*	20 8	23 3	100
77930	0 1	16 7	3 7	5 1	100
77933	0 3	41 4	4 8	8 9	100
77936	0 3	32 8	3 6	8 2	100
77939	-0 3	10 2	2 6	2 8	100
77940	0 0	4 7	1 7	1 3	100
77942	-0 2	36 5	5 8	9 1	100
77944	0 0	14 0	3 2	3 9	100
77947	-0 3	60 4	5 4	14 4	100

* No other areas of activity in excess of 75% of the $DCGL_W$ were identified in areas adjacent to this flagged location, or in any other areas of the survey unit Therefore, the survey unit data was deemed acceptable

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Table 10.2
Paint/Surface Media Summary Results for Uranium

	Alpha Activity (dpm/100 cm^2)				
Survey Unit	Minimum	Maximum	Mean	Standard Deviation	$DCGL_W$
77905	27 9	640 0	213 1	145 4	5000
77906	-13 9	309 9	111 3	92 5	5000
77930	1 8	24 3	9 0	7 5	5000
77933	1 7	56 7	11 9	13 4	5000
77936	5 9	52 0	18 1	14 2	5000
77939	3 5	91 2	40 4	25 2	5000
77940	1 0	86 7	23 4	23 1	5000
77942	0 8	76 1	32 0	21 7	5000
77944	0 9	30 5	7 8	9 0	5000
77947	1 9	56 6	26 7	16 3	5000

Detailed sampling instructions and paint/surface media sample results are on file in the Building 779 project files

10.2 Removable Surface Contamination Surveys

Removable contamination measurements were obtained at each accessible grid location in accordance with approved instructions developed for each survey package The minimum required removable contamination measurements were obtained for each survey unit Removable contamination results for each survey unit are presented in Attachments B through V Surveys were performed at each location from which paint/surface media samples were obtained, ensuring that the minimum required number of smears was collected for each survey unit For those points, measurements were obtained prior to and after the media sample For those areas from which no paint/media sample was obtained, a single removable contamination measurement was obtained The results of all smears show that the removable contamination levels met the $DCGL_W$ described in Section 6 0 The number of removable activity measurements obtained was verified to be adequate by re-calculating the required number of measurements with the actual survey unit measurement standard (refer to the "Post Survey Removable Contamination Summary Statistics Calculation Verification Worksheet" in the Building 779 project files, for each survey unit) Table 10 3 summarizes the results of removable surface contamination surveys

Table 10.3
Removable Surface Contamination Summary Results

	Alpha Activity (dpm/100 cm^2)				
Survey Unit	Minimum	Maximum	Mean	Standard Deviation	DCGL
77905	-0 6	5 4	1 1	1 4	20
77906	-0 9	4 2	0 5	1 2	20
77930	-0 6	0 9	0 1	0 8	20
77931	-0 9	1 2	0 4	0 9	20
77932	-0 6	2 4	0 2	1 2	20
77933	-0 9	2 1	-0 3	0 8	20
77934	-0 6	3 9	0 6	1 2	20
77935	-0 6	2 4	0 0	0 8	20
77936	-1 2	1 5	0 1	0 9	20
77937	-1 2	3 3	0 2	1 2	20
77938	-0 6	2 7	0 7	1 2	20
77939	-0 6	3 0	0 2	1 1	20
77940	-1 2	4 2	0 0	1 4	20
77941	0 0	6 0	1 0	1 5	20
77942	-0 9	6 6	0 2	1 8	20
77944	-1 2	3 9	0 0	1 3	20
77945	-0 9	0 6	-0 5	0 7	20
77946	-1 2	2 4	0 1	1 1	20
77947	-0 9	5 7	1 1	1 5	20
77948	-1 2	3 9	0 1	1 3	20
77950	-1 2	3 9	0 2	1 4	20

Detailed survey instructions and removable surface contamination results are on file in the Building 779 project files

10.3 Total Surface Activity Surveys

Total surface activity measurements were obtained in accordance with approved instructions developed for each survey package, at each accessible grid location, ensuring that the minimum required total surface activity measurements were obtained for each survey unit Total surface activity survey results for each survey unit are presented in Attachments B through V Total surface activity surveys were performed at each location where paint/surface media samples were obtained For those areas where no media sample was obtained, a single total surface activity measurement was obtained The results of all surveys showed that all total surface activity levels were less than the $DCGL_W$ described in Section 6 0 The number of total surface activity measurements obtained was verified to be adequate by re-calculating the required number of measurements with the actual survey unit standard deviation (refer to the "Post Survey Total Surface Activity Summary Statistics Calculation Verification Worksheet" in the Building 779 project files, for each survey unit) Table 10 4 summarizes the total surface contamination survey results

Table 10.4
Total Surface Contamination Summary Results

	Alpha Activity (dpm/100 cm^2)				
Survey Unit	Minimum	Maximum	Mean	Standard Deviation	$DCGL_W$
77905	-5 4	32 1	8 2	7 6	100
77906	-7 3	35 2	12 6	10 2	100
77930	-4 0	21 4	5 5	7 1	100
77931	3 7	40 4	17 1	11 5	100
77932	-2 7	49 9	17 3	12 4	100
77933	-6 7	38 3	12 0	11 6	100
77934	-3 9	63 4	27 4	17 6	100
77935	-2 5	64 9	19 5	13 1	100
77936	7 5	38 7	19 6	7 9	100
77937	1 4	62 8	16 7	10 3	100
77938	2 3	49 9	19 8	13 0	100
77939	-6 2	46 7	13 4	15 0	100
77940	-6 3	27 8	9 0	8 6	100
77941	-7 0	35 9	13 5	10 2	100
77942	-5 8	22 2	10 6	7 5	100
77944	-0 6	47 7	20 6	11 7	100
77945	-6 5	21 9	4 4	6 6	100
77946	-3 4	36 7	15 4	9 5	100
77947	1 4	28 0	10 7	8 1	100
77948	-7 3	65 1	18 4	14 5	100
77950	-2 8	60 1	14 8	13 1	100

Detailed survey instructions and total surface contamination results are on file in the Building 779 project files

10.4 Scan Surveys

Scan surveys were performed at the required density in accordance with approved instructions developed for each survey package The scan results are presented in Tables A 1 through A 21 in Attachment A Survey results are grouped by survey unit Each survey unit is divided into a number of subunits, which is typically represented by a single surface (e g floor, wall < 2 meters, wall > 2 meters, ceiling, etc) Within each subunit, survey(s) are performed For SCM scan surveys, a report is automatically generated For the NE Electra scan surveys, the results are reported as < 225 dpm/100 cm^2 (given that no areas are flagged for investigation) For both scan methods, survey information is documented on survey forms and maps A consistent numbering system (per the survey unit numbers outlined in the Final Survey Breakdown Structure, Rev 2) is used to identify the survey unit, subunit, survey number, and type of detector used

The scan survey overlay maps (refer to Attachment Z) delineate the subunit locations so that all surveys can be traced to the location surveyed The yellow-shaded areas represent areas requiring 100% scan The green-shaded areas represent requiring 50% scans The blue-shaded areas represent areas requiring 10% scan The required scan frequency for each survey unit, per the Closeout Radiological Survey Plan for the 779 Cluster was verified

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Due to the low expected count rate and the random nature of radioactivity, a low occurrence of individual 100 cm^2 area false positive results is expected This phenomenon is amplified when using the SCM/SIMS system due to the large amounts of data generated (i e a result is recorded for each 25 cm^2 area scanned)

Surveys taken with the SCM operating in the timer mode are presented as a single survey Survey time for those detectors have been increased to minimize the probability of false positives Timer mode surveys are performed when the cart-mounted motor driven SCM is not utilized The timer mode setting was 10 seconds, providing the same surface area measurement as the time measured by both the primary and recount operating at 1 cm/sec

11.0 Conclusion

All survey/sample data collected from the B779 Main Building and south end of the loading dock floor were collected in accordance with the Closeout Radiological Survey Plan for the 779 Cluster and approved survey instructions All data was verified and validated as described in Attachment Y and is, therefore, satisfactory for comparison with release criteria

Finally, all survey/sample results presented in this report are less than DCGLs as defined by the Closeout Radiological Survey Plan for the 779 Cluster

Roberts, Sarah

From Joseph Guido [guidjs@doe-md gov]
Sent Thursday, January 06, 2000 4 49 AM
To AbelquiE@orau gov, Sarah Roberts@rfets gov
Subject RE Po-210 Issue -Reply

Eric - haven't had a chance to read your attached paper

Would very much appreciate your taking on the initial outline - That would be a great first step in getting this thing going

I wil try and track down some polonium experts here at Mound to see if there is an answer for the galvanized question I know that one of the chemists has told me that polonium likes attach itself to metals and that some of the old sampling methods took advantage of this property Hopefully there is still some polonium knowledge left here (since this once was the polonium capital of the world!)

perhaps we could try and get a conferance call going in a few weeks (after we have looked at your outline) to determine the course of our efforts

joe guido

"Abelquist, Eric" <AbelquiE@orau gov> 01/05/00 03 30pm >>>
Dear Joe and Sarah-

I'm attaching a copy of the paper we prepared for DOE early last year I can put together a proposed outline for the contents of the paper One area that needs to be developed why is it just galvanized steel - and what is the physical attraction?

Let's keep this effort going

Regards
Eric

-----Original Message-----

From. **Roberts, Sarah [mailto.Sarah.Roberts@rfets.gov]**
Sent Wednesday, January 05, 2000 12 28 PM
To 'guidjs@doe-md gov'
Cc 'abelquie@orau gov'
Subject Po-210 Issue

Good morning (or afternoon, depending on the time zone), gentlemen

I was wondering if anyone has made any progress on the Po-210 issue I have not, but we have determined that this phenomenon typically occurs only on galvanized steel Now we need to research the chemical mechanism behind the phenomenon

Please keep me informed of any recent developments

Thank you,

Sarah Roberts
Sarah roberts@rfets gov <mailto Sarah roberts@rfets gov>
(303) 966-3008

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ATTACHMENT A

Scan Data Summaries

Table A.1
Survey Unit 77905 Scan Data Summary

Final Scan Survey Number[1]	Scan Survey Date	Max. Result (dpm/100cm^2) [2]	Investigation Survey Number	Scan value >75% of EMC (dpm/100cm^2) [4]	Electra Investigation Result (dpm/100cm^2) [3]	Decon required (y/n)	Final Investigation Value (dpm/100cm^2) [3]
00521600	6/15/99	205	n/a	n/a	n/a	No	n/a
00521630	6/15/99	181	n/a	n/a	n/a	No	n/a
00521700	6/15/99	137	n/a	n/a	n/a	No	n/a
00521731	6/15/99	196	n/a	n/a	n/a	No	n/a
00521800	6/15/99	148	n/a	n/a	n/a	No	n/a
00521831	6/15/99	203	n/a	n/a	n/a	No	n/a
00521900	6/15/99	181	n/a	n/a	n/a	No	n/a
00521931	6/15/99	222	n/a	n/a	n/a	No	n/a
00522000	6/15/99	240	00522090	240	60	No	n/a
00522001	7/20/99	193	n/a	n/a	n/a	No	n/a
00522131	6/15/99	276	00522190	276	19	No	n/a
				243	69	No	n/a
				266	74	No	n/a
00522200	7/20/99	263	00522290	263	76	No	n/a
				263	24	No	n/a
				261	40	No	n/a
				244	28	No	n/a
00522300	7/20/99	193	n/a	n/a	n/a	No	n/a
00522400	7/20/99	269	00522490	269	0	No	n/a
				229	40	No	n/a
00522500	7/20/99	270	00522590	270	28	No	n/a
00522600	7/20/99	307	00522690	307	4	No	n/a
				286	10	No	n/a
00522700	7/20/99	232	00522790	232	4	No	n/a
				232	8	No	n/a
00522800	7/20/99	193	n/a	n/a	n/a	No	n/a
00522900	7/20/99	387	00522990	387	44	No	n/a
				232	36	No	n/a
				232	12	No	n/a
				240	32	No	n/a
				232	40	No	n/a
00523000	7/20/99	302	00523090	302	68	No	n/a
00523100	7/20/99	256	00523190	256	48	No	n/a
				232	36	No	n/a
				256	32	No	n/a
				232	36	No	n/a
00523200	7/20/99	242	00523290	242	40	No	n/a
				232	24	No	n/a
00523300	7/20/99	193	n/a	n/a	n/a	No	n/a

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Final Scan Survey Number[1]	Scan Survey Date	Max. Result (dpm/100cm^2) [2]	Investigation Survey Number	Scan value >75% of EMC (dpm/100cm^2) [4]	Electra Investigation Result (dpm/100cm^2) [3]	Decon required (y/n)	Final Investigation Value (dpm/100cm^2) [3]
00523400	7/20/99	154	n/a	n/a	n/a	No	n/a
00566500	7/26/99	232	00566590	232	12	No	n/a
00566600	7/26/99	193	n/a	n/a	n/a	No	n/a
00566700	7/26/99	265	00566790	265	52	No	n/a
				232	40	No	n/a
				232	60	No	n/a
00566800	7/26/99	309	00566890	309	42	No	n/a
				232	30	No	n/a
				270	82	No	n/a
				232	66	No	n/a
				232	62	No	n/a
				228	54	No	n/a
				252	98	No	n/a
				236	66	No	n/a
				271	50	No	n/a
00566900	7/26/99	270	00566990	270	48	No	n/a
				270	24	No	n/a
				232	24	No	n/a
				255	44	No	n/a
				231	36	No	n/a
				232	24	No	n/a
00567000	7/26/99	264	00567090	264	16	No	n/a
00567100	7/26/99	271	00567190	270	40	No	n/a
				225	16	No	n/a
				270	48	No	n/a
				271	36	No	n/a
				232	20	No	n/a
				232	45	No	n/a
				271	52	No	n/a
				232	24	No	n/a
				270	24	No	n/a
				270	28	No	n/a
				232	28	No	n/a
				232	52	No	n/a
				232	40	No	n/a
00567200	7/26/99	232	00567290	232	20	No	n/a
00567300	7/26/99	221	n/a	n/a	n/a	No	n/a
00567500	7/26/99	348	00567590	348	36	No	n/a
				232	24	No	n/a
				232	76	No	n/a
				262	36	No	n/a
				232	40	No	n/a
				232	28	No	n/a
				232	44	No	n/a

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Final Scan Survey Number[1]	Scan Survey Date	Max. Result (dpm/100cm^2) [2]	Investigation Survey Number	Scan value >75% of EMC (dpm/100cm^2) [4]	Electra Investigation Result (dpm/100cm^2) [3]	Decon required (y/n)	Final Investigation Value (dpm/100cm^2) [3]
00567500	7/26/99	348	00567590	271	64	No	n/a
				271	52	No	n/a
				309	28	No	n/a
				270	48	No	n/a
				271	56	No	n/a
				232	52	No	n/a
				232	44	No	n/a
00567600	7/23/99	193	n/a	n/a	n/a	No	n/a
00567700	7/23/99	193	n/a	n/a	n/a	No	n/a
00567800	9/16/99	252	00567890	252	0	No	n/a
				252	4	No	n/a
				251	0	No	n/a
00567900	9/16/99	302	00567990	302	20	No	n/a
				252	12	No	n/a
00568000	7/23/99	219	n/a	n/a	n/a	No	n/a
00568001	9/16/99	252	00568090	252	32	No	n/a
				252	8	No	n/a
				252	20	No	n/a
				226	24	No	n/a
00568100	7/23/99	193	n/a	n/a	n/a	No	n/a
00568200	7/23/99	243	00568290	243	40	No	n/a
00568300	7/23/99	266	00568390	266	40	No	n/a
				232	28	No	n/a

(1) The first six characters represent the survey subunit number The last two numbers represent the detector type
(2) NE Electra scan results are reported as < 225 dpm/100 cm^2 when no areas are flagged.
(3) One-square meter averages are verified as less than 75 dpm/100 cm^2 when individual measurements in excess of 100 dpm/100 cm^2 are present
(4) In some cases, dedicated decon personnel worked in parallel with the Millennium Services survey technicians such that elevated areas were immediately decontaminated. For these cases, the follow-up Electra investigation value (refer to column 6) will reflect the post-decon radiological status of the area.

Detailed scan survey instructions and results are on file in the Building 779 project files

Table A.2
Survey Unit 77906 Scan Data Summary

Final Scan Survey Number[1]	Scan Survey Date	Max. Result (dpm/100cm^2) [2]	Investigation Survey Number	Scan value >75% of EMC (dpm/100cm^2) [4]	Electra Investigation Result (dpm/100cm^2) [3]	Decon required (y/n)	Final Investigation Value (dpm/100cm^2) [3]
00620190	9/25/99	<225	n/a	n/a	n/a	No	n/a
00620200	6/22/99	232	00620290	232	44	No	n/a
00620201	7/19/99	228	00620291	228	44	No	n/a
00620300	6/22/99	150	n/a	n/a	n/a	No	n/a
00620301	7/19/99	193	n/a	n/a	n/a	No	n/a
00620400	6/22/99	154	n/a	n/a	n/a	No	n/a
00620401	7/19/99	348	00620490	348	48	No	n/a
				271	44	No	n/a
				232	36	No	n/a
				232	40	No	n/a
00620500	6/22/99	232	00620590	232	4	No	n/a
00620600	6/22/99	232	00620690	232	8	No	n/a
00620601	7/19/99	242	00620691	242	40	No	n/a
				231	20	No	n/a
				231	36	No	n/a
				232	40	No	n/a
00620700	6/22/99	154	n/a	n/a	n/a	No	n/a
00620802	9/27/99	244	00620890	244	32	No	n/a
00665200	7/26/99	309	00665290	309	72	No	n/a
				269	60	No	n/a
00665300	7/26/99	301	00665390	300	40	No	n/a
				232	32	No	n/a
				271	24	No	n/a
00665400	7/26/99	345	00665490	345	20	No	n/a
				270	4	No	n/a
				232	4	No	n/a
				232	28	No	n/a
00665401	9/16/99	251	00665491	251	16	No	n/a
				251	20	No	n/a
				251	40	No	n/a
				251	44	No	n/a
				251	20	No	n/a
				226	40	No	n/a
00665500	7/26/99	294	00665590	294	36	No	n/a
00665600	7/26/99	348	00665690	348	38	No	n/a
				309	28	No	n/a
				270	32	No	n/a
				270	44	No	n/a
				232	24	No	n/a
				228	0	No	n/a

Final Scan Survey Number[1]	Scan Survey Date	Max. Result (dpm/100cm^2) [2]	Investigation Survey Number	Scan value >75% of EMC (dpm/100cm^2) [4]	Electra Investigation Result (dpm/100cm^2) [3]	Decon required (y/n)	Final Investigation Value (dpm/100cm^2) [3]
00665700	7/26/99	232	00665790	232	56	No	n/a
00665800	7/26/99	206	n/a	n/a	n/a	No	n/a
00665801	9/16/99	300	00665890	251	44	No	n/a
				247	44	No	n/a
				300	20	No	n/a
				251	32	No	n/a
				250	28	No	n/a

(1) The first six characters represent the survey subunit number The last two numbers represent the detector type
(2) NE Electra scan results are reported as < 225 dpm/100 cm^2 when no areas are flagged
(3) One-square meter averages are verified as less than 75 dpm/100 cm^2 when individual measurements in excess of 100 dpm/100 cm^2 are present.
(4) In some cases, dedicated decon personnel worked in parallel with the Millennium Services survey technicians such that elevated areas were immediately decontaminated. For these cases, the follow-up Electra investigation value (refer to column 6) will reflect the post-decon radiological status of the area.

Detailed scan survey instructions and results are on file in the Building 779 project files

Table A.3
Survey Unit 77930 Scan Data Summary

Final Scan Survey Number[1]	Scan Survey Date	Max. Result (dpm/100cm^2) [2]	Investigation Survey Number	Scan value >75% of EMC (dpm/100cm^2) [4]	Electra Investigation Result (dpm/100cm^2) [3]	Decon required (y/n)	Final Investigation Value (dpm/100cm^2) [3]
03000101	12/07/99	818	03000191	n/a	344	Yes	16
				818	100	No	n/a
				n/a	432	Yes	24
				253	52	No	n/a
				569	168	No	n/a
				272	56	No	n/a
				225	40	No	n/a
				261	56	No	n/a
03000190	12/09/99	<225	n/a	n/a	n/a	No	n/a
03000201	12/07/99	964	03000291	400	4	No	n/a
				255	56	No	n/a
				319	36	No	n/a
				284	8	No	n/a
				343	16	No	n/a
				282	28	No	n/a
				231	12	No	n/a
				313	8	No	n/a
				364	36	No	n/a
				284	20	No	n/a
				964	48	No	n/a
				283	24	No	n/a
03000290	12/09/99	<225	n/a	n/a	n/a	No	n/a
03000303	12/07/99	327	03000393	255	40	No	n/a
				255	68	No	n/a
				225	92	No	n/a
				236	36	No	n/a
				255	92	No	n/a
				255	96	No	n/a
				327	72	No	n/a
03000392	12/09/99	<225	n/a	n/a	n/a	No	n/a
03000403	12/07/99	267	03000494	267	12	No	n/a
				232	40	No	n/a
				255	68	No	n/a
				231	48	No	n/a
03000493	12/09/99	<225	n/a	n/a	n/a	No	n/a
03000503	12/07/99	327	03000594	327	24	No	n/a
				247	92	No	n/a
03000593	12/09/99	<225	n/a	n/a	n/a	No	n/a

Final Scan Survey Number[1]	Scan Survey Date	Max. Result (dpm/100cm^2) [2]	Investigation Survey Number	Scan value >75% of EMC (dpm/100cm^2) [4]	Electra Investigation Result (dpm/100cm^2) [3]	Decon required (y/n)	Final Investigation Value (dpm/100cm^2) [3]
03000603	12/07/99	378	03000695	378	72	No	n/a
03000694	12/09/99	<225	n/a	n/a	n/a	No	n/a
03000702	12/09/99	167	n/a	n/a	n/a	No	n/a
03000793	12/11/99	<225	n/a	n/a	n/a	No	n/a
03000802	12/09/99	472	03000893	236	176	No	n/a
				472	44	No	n/a
03000892	12/11/99	328	n/a	248	n/a	Yes	8
				328	n/a	Yes	4
03000902	12/09/99	345	03000995	345	60	No	n/a
				225	188	No	n/a
03000994	12/11/99	<225	n/a	n/a	n/a	No	n/a
03001002	12/09/99	284	03001094	236	36	No	n/a
				228	32	No	n/a
				255	24	No	n/a
				230	64	No	n/a
				284	84	No	n/a
				236	40	No	n/a
				251	36	No	n/a
				267	40	No	n/a
03001093	12/10/99	<225	n/a	n/a	n/a	No	n/a
03001190	12/13/99	<225	n/a	n/a	n/a	No	n/a
03020101	10/20/99	145	n/a	n/a	n/a	No	n/a
03020191	11/03/99	<225	n/a	n/a	n/a	No	n/a
03020200	08/18/99	302	03020290	277	36	No	n/a
				302	32	No	n/a
				301	16	No	n/a
				301	40	No	n/a
				251	20	No	n/a
				252	28	No	n/a
				251	36	No	n/a
03020201	10/20/99	145	n/a	n/a	n/a	No	n/a
03020291	12/16/99	<225	n/a	n/a	n/a	No	n/a
03020302	10/20/99	145	n/a	n/a	n/a	No	n/a
03020391	12/16/99	<225	n/a	n/a	n/a	No	n/a
03020402	10/20/99	192	n/a	n/a	n/a	No	n/a
03020490	12/13/99	<225	n/a	n/a	n/a	No	n/a
03020690	12/13/99	<225	n/a	n/a	n/a	No	n/a
03020701	10/11/99	174	n/a	n/a	n/a	No	n/a
03020790	10/15/99	<225	n/a	n/a	n/a	No	n/a
03020801	10/04/99	232	03020890	232	32	No	n/a
03020891	10/19/99	<225	n/a	n/a	n/a	No	n/a
03020901	10/04/99	116	n/a	n/a	n/a	No	n/a
03020990	10/19/99	<225	n/a	n/a	n/a	No	n/a
03021001	10/04/99	116	n/a	n/a	n/a	No	n/a

Final Scan Survey Number[1]	Scan Survey Date	Max. Result (dpm/100cm^2) [2]	Investigation Survey Number	Scan value >75% of EMC (dpm/100cm^2) [4]	Electra Investigation Result (dpm/100cm^2) [3]	Decon required (y/n)	Final Investigation Value (dpm/100cm^2) [3]
03021090	10/19/99	<225	n/a	n/a	n/a	No	n/a
03021101	10/04/99	193	n/a	n/a	n/a	No	n/a
03021190	10/19/99	<225	n/a	n/a	n/a	No	n/a
03021201	10/04/99	116	n/a	n/a	n/a	No	n/a
03021290	10/19/99	<225	n/a	n/a	n/a	No	n/a
03021301	10/04/99	154	n/a	n/a	n/a	No	n/a
03021391	10/19/99	<225	n/a	n/a	n/a	No	n/a
03021401	10/04/99	154	n/a	n/a	n/a	No	n/a
03021491	10/30/99	<225	n/a	n/a	n/a	No	n/a
03021501	10/11/99	232	03021592	232	228	Yes	120
03021591	10/15/99	<225	n/a	n/a	n/a	No	n/a
03021601	09/22/99	176	n/a	n/a	n/a	No	n/a
03022300	08/18/99	169	n/a	n/a	n/a	No	n/a
03022400	10/05/99	77	n/a	n/a	n/a	No	n/a
03022490	10/19/99	<225	n/a	n/a	n/a	No	n/a
03022500	08/18/99	101	n/a	n/a	n/a	No	n/a
03022590	11/03/99	<225	n/a	n/a	n/a	No	n/a
03022600	10/05/99	154	n/a	n/a	n/a	No	n/a
03022690	10/19/99	<225	n/a	n/a	n/a	No	n/a
03022700	08/18/99	152	n/a	n/a	n/a	No	n/a
03022701	09/22/99	252	03022791	226	0	No	n/a
				252	20	No	n/a
03022790	09/24/99	<225	n/a	n/a	n/a	No	n/a
03022800	08/18/99	270	03022890	270	212	No	n/a
03022801	09/22/99	252	03022892	226	168	No	n/a
				252	56	No	n/a
03022891	09/25/99	<225	n/a	n/a	n/a	No	n/a
03022901	09/22/99	201	n/a	n/a	n/a	No	n/a
03023001	09/22/99	150	n/a	n/a	n/a	No	n/a
03023091	09/25/99	<225	n/a	n/a	n/a	No	n/a
03065101	10/20/99	236	03065190	236	8	No	n/a
03065191	10/27/99	<225	n/a	n/a	n/a	No	n/a
03065201	10/20/99	227	03065290	227	12	No	n/a
03065291	11/01/99	<225	n/a	n/a	n/a	No	n/a
03065300	08/23/99	135	n/a	n/a	n/a	No	n/a
03065400	08/23/99	135	n/a	n/a	n/a	No	n/a
03065490	12/13/99	<225	n/a	n/a	n/a	No	n/a
03065591	10/27/99	<225	n/a	n/a	n/a	No	n/a
03065690	11/03/99	<225	n/a	n/a	n/a	No	n/a
03065701	10/11/99	167	n/a	n/a	n/a	No	n/a
03065790	10/15/99	<225	n/a	n/a	n/a	No	n/a
03065890	10/18/99	<225	n/a	n/a	n/a	No	n/a
03065900	10/04/99	115	n/a	n/a	n/a	No	n/a
03065990	11/01/99	<225	n/a	n/a	n/a	No	n/a

Final Scan Survey Number[1]	Scan Survey Date	Max. Result (dpm/100cm^2) [2]	Investigation Survey Number	Scan value >75% of EMC (dpm/100cm^2) [4]	Electra Investigation Result (dpm/100cm^2) [3]	Decon required (y/n)	Final Investigation Value (dpm/100cm^2) [3]
03066000	10/04/99	77	n/a	n/a	n/a	No	n/a
03066090	11/01/99	<225	n/a	n/a	n/a	No	n/a
03066190	10/18/99	<225	n/a	n/a	n/a	No	n/a
03066200	10/04/99	96	n/a	n/a	n/a	No	n/a
03066290	11/01/99	<225	n/a	n/a	n/a	No	n/a
03066300	10/04/99	77	n/a	n/a	n/a	No	n/a
03066390	11/01/99	<225	n/a	n/a	n/a	No	n/a
03066400	10/04/99	116	n/a	n/a	n/a	No	n/a
03066490	11/01/99	<225	n/a	n/a	n/a	No	n/a
03066500	10/11/99	69	n/a	n/a	n/a	No	n/a
03066590	10/18/99	<225	n/a	n/a	n/a	No	n/a
03066601	09/22/99	201	n/a	n/a	n/a	No	n/a
03066690	09/24/99	<225	n/a	n/a	n/a	No	n/a
03067390	10/18/99	<225	n/a	n/a	n/a	No	n/a
03067490	11/03/99	<225	n/a	n/a	n/a	No	n/a
03067590	11/03/99	<225	n/a	n/a	n/a	No	n/a
03067690	11/03/99	<225	n/a	n/a	n/a	No	n/a
03067701	09/22/99	201	n/a	n/a	n/a	No	n/a
03067790	09/24/99	<225	n/a	n/a	n/a	No	n/a
03067801	09/22/99	199	n/a	n/a	n/a	No	n/a
03067890	09/24/99	<225	n/a	n/a	n/a	No	n/a
03067901	09/22/99	150	n/a	n/a	n/a	No	n/a
03067990	09/24/99	<225	n/a	n/a	n/a	No	n/a
03068001	09/22/99	150	n/a	n/a	n/a	No	n/a
03068090	09/25/99	<225	n/a	n/a	n/a	No	n/a
03085101	08/25/99	805	03085191	805	n/a	No	n/a
				251	16	No	n/a
03085200	10/08/99	139	n/a	n/a	n/a	No	n/a
03085290	11/03/99	<225	n/a	n/a	n/a	No	n/a
03085301	09/23/99	302	03085390	277	0	No	n/a
				294	20	No	n/a
				277	-8	No	n/a
				302	20	No	n/a
				252	12	No	n/a
				252	0	No	n/a
				252	4	No	n/a
				226	12	No	n/a
				226	-4	No	n/a
				252	8	No	n/a
03085391	10/18/99	<225	n/a	n/a	n/a	No	n/a
03085402	09/23/99	201	n/a	n/a	n/a	No	n/a
03085490	12/13/99	<225	n/a	n/a	n/a	No	n/a
03085500	09/23/99	302	03085590	252	4	No	n/a
				252	-4	No	n/a

Final Scan Survey Number[1]	Scan Survey Date	Max. Result (dpm/100cm^2) [2]	Investigation Survey Number	Scan value >75% of EMC (dpm/100cm^2) [4]	Electra Investigation Result (dpm/100cm^2) [3]	Decon required (y/n)	Final Investigation Value (dpm/100cm^2) [3]
03085500	09/23/99	302	03085590	252	12	No	n/a
				252	24	No	n/a
				302	8	No	n/a
03085591	10/04/99	<225	n/a	n/a	n/a	No	n/a
03086000	10/08/99	147	n/a	n/a	n/a	No	n/a
03086090	11/03/99	<225	n/a	n/a	n/a	No	n/a
03086100	10/08/99	189	n/a	n/a	n/a	No	n/a
03086190	11/03/99	<225	n/a	n/a	n/a	No	n/a
03086200	10/08/99	147	n/a	n/a	n/a	No	n/a
03086290	11/03/99	<225	n/a	n/a	n/a	No	n/a
03086390	10/27/99	690	n/a	534	n/a	Yes	<225
				426	n/a	Yes	<225
				576	n/a	Yes	<225
				594	n/a	Yes	<225
				534	n/a	Yes	<225
				690	n/a	Yes	<225
				354	n/a	Yes	<225
03086490	11/03/99	<225	n/a	n/a	n/a	No	n/a

(1) The first six characters represent the survey subunit number The last two numbers represent the detector type
(2) NE Electra scan results are reported as < 225 dpm/100 cm^2 when no areas are flagged.
(3) One-square meter averages are verified as less than 75 dpm/100 cm^2 when individual measurements in excess of 100 dpm/100 cm^2 are present.
(4) In some cases, dedicated decon personnel worked in parallel with the Millennium Services survey technicians such that elevated areas were immediately decontaminated. For these cases, the follow-up Electra investigation value (refer to column 6) will reflect the post-decon radiological status of the area.

Detailed scan survey instructions and results are on file in the Building 779 project files

Table A.4
Survey Unit 77931 Scan Data Summary

Final Scan Survey Number[1]	Scan Survey Date	Max. Result (dpm/100cm^2) [2]	Investigation Survey Number	Scan value >75% of EMC (dpm/100cm^2) [4]	Electra Investigation Result (dpm/100cm^2) [3]	Decon required (y/n)	Final Investigation Value (dpm/100cm^2) [3]
03101301	11/24/99	400	03101391	400	36	No	n/a
03101302	11/26/99	225	03101393	225	28	No	n/a
03101390	11/28/99	<225	n/a	n/a	n/a	No	n/a
03101392	11/28/99	<225	n/a	n/a	n/a	No	n/a
03121001	11/26/99	192	n/a	n/a	n/a	No	n/a
03121091	11/28/99	<225	n/a	n/a	n/a	No	n/a
03121101	11/26/99	109	n/a	n/a	n/a	No	n/a
03121190	11/28/99	<225	n/a	n/a	n/a	No	n/a
03121201	11/26/99	163	n/a	n/a	n/a	No	n/a
03121301	11/24/99	181	n/a	n/a	n/a	No	n/a
03121391	11/30/99	n/a	n/a	n/a	n/a	No	n/a
03166000	11/26/99	181	n/a	n/a	n/a	No	n/a
03166090	11/28/99	<225	n/a	n/a	n/a	No	n/a
03166100	11/26/99	109	n/a	n/a	n/a	No	n/a
03166200	11/26/99	214	n/a	n/a	n/a	No	n/a
03166300	11/26/99	240	03166390	240	64	No	n/a
03185190	11/23/99	<225	n/a	n/a	n/a	No	n/a

(1) The first six characters represent the survey subunit number The last two numbers represent the detector type
(2) NE Electra scan results are reported as < 225 dpm/100 cm^2 when no areas are flagged.
(3) One-square meter averages are verified as less than 75 dpm/100 cm^2 when individual measurements in excess of 100 dpm/100 cm^2 are present
(4) In some cases, dedicated decon personnel worked in parallel with the Millennium Services survey technicians such that elevated areas were immediately decontaminated. For these cases, the follow-up Electra investigation value (refer to column 6) will reflect the post-decon radiological status of the area.

Detailed scan survey instructions and results are on file in the Building 779 project files

Table A.5
Survey Unit 77932 Scan Data Summary

Final Scan Survey Number[1]	Scan Survey Date	Max. Result (dpm/100cm^2) [2]	Investigation Survey Number	Scan value >75% of EMC (dpm/100cm^2) [4]	Electra Investigation Result (dpm/100cm^2) [3]	Decon required (y/n)	Final Investigation Value (dpm/100cm^2) [3]
03200100	11/11/99	490	03200190	254	76	No	n/a
				490	386	Yes	0
03200102	11/17/99	198	n/a	n/a	n/a	No	n/a
03200191	11/12/99	<225	n/a	n/a	n/a	No	n/a
03200192	11/20/99	<225	n/a	n/a	n/a	No	n/a
03200200	11/11/99	2509	03200290	2018	2926	Yes	<225
				2509	3170	Yes	<225
03200291	11/12/99	<225	n/a	n/a	n/a	No	n/a
03200300	11/11/99	181	n/a	n/a	n/a	No	n/a
03200390	11/12/99	<225	n/a	n/a	n/a	No	n/a
03200400	11/11/99	191	n/a	n/a	n/a	No	n/a
03200490	11/17/99	<225	n/a	n/a	n/a	No	n/a
03200500	11/11/99	745	03200590	745	28	No	n/a
03200591	11/15/99	<225	n/a	n/a	n/a	No	n/a
03220600	11/12/99	181	n/a	n/a	n/a	No	n/a
03220700	11/12/99	178	n/a	n/a	n/a	No	n/a
03220790	11/17/99	<225	n/a	n/a	n/a	No	n/a
03220800	11/12/99	181	n/a	n/a	n/a	No	n/a
03220890	11/17/99	<225	n/a	n/a	n/a	No	n/a
03220900	11/12/99	181	n/a	n/a	n/a	No	n/a
03220990	11/17/99	<225	n/a	n/a	n/a	No	n/a
03221000	11/12/99	94	n/a	n/a	n/a	No	n/a
03221090	11/17/99	<225	n/a	n/a	n/a	No	n/a
03221100	11/13/99	203	n/a	n/a	n/a	No	n/a
03221190	11/19/99	<225	n/a	n/a	n/a	No	n/a
03221200	11/13/99	145	n/a	n/a	n/a	No	n/a
03221290	11/19/99	<225	n/a	n/a	n/a	No	n/a
03265600	11/12/99	472	03265690	472	32	No	n/a
				236	64	No	n/a
03265700	11/12/99	178	n/a	n/a	n/a	No	n/a
03265790	11/17/99	<225	n/a	n/a	n/a	No	n/a
03265800	11/12/99	556	03265891	496	52	No	n/a
				556	28	No	n/a
03265890	11/17/99	<225	n/a	n/a	n/a	No	n/a
03265900	11/13/99	254	03265991	254	28	No	n/a
03265990	11/19/99	<225	n/a	n/a	n/a	No	n/a
03266000	11/13/99	301	03266091	301	4	No	n/a
03266090	11/19/99	<225	n/a	n/a	n/a	No	n/a
03266100	11/13/99	165	n/a	n/a	n/a	No	n/a

Final Scan Survey Number(1)	Scan Survey Date	Max. Result (dpm/100cm^2) (2)	Investigation Survey Number	Scan value >75% of EMC (dpm/100cm^2) (4)	Electra Investigation Result (dpm/100cm^2) (3)	Decon required (y/n)	Final Investigation Value (dpm/100cm^2) (3)
03266190	11/19/99	<225	n/a	n/a	n/a	No	n/a
03266200	11/13/99	136	n/a	n/a	n/a	No	n/a
03266290	11/19/99	<225	n/a	n/a	n/a	No	n/a
03285191	11/12/99	<225	n/a	n/a	n/a	No	n/a
03285290	11/13/99	<225	n/a	n/a	n/a	No	n/a
03285390	11/15/99	<225	n/a	n/a	n/a	No	n/a

(1) The first six characters represent the survey subunit number The last two numbers represent the detector type
(2) NE Electra scan results are reported as < 225 dpm/100 cm^2 when no areas are flagged.
(3) One-square meter averages are verified as less than 75 dpm/100 cm^2 when individual measurements in excess of 100 dpm/100 cm^2 are present.
(4) In some cases, dedicated decon personnel worked in parallel with the Millennium Services survey technicians such that elevated areas were immediately decontaminated. For these cases, the follow-up Electra investigation value (refer to column 6) will reflect the post-decon radiological status of the area.

Detailed scan survey instructions and results are on file in the Building 779 project files

Table A.6
Survey Unit 77933 Scan Data Summary

Final Scan Survey Number[1]	Scan Survey Date	Max. Result (dpm/100cm^2) [2]	Investigation Survey Number	Scan value >75% of EMC (dpm/100cm^2) [4]	Electra Investigation Result (dpm/100cm^2) [3]	Decon required (y/n)	Final Investigation Value (dpm/100cm^2) [3]
03300102	11/5/99	330	03300192	330	-8	No	n/a
				283	30	No	n/a
				330	24	No	n/a
				236	32	No	n/a
03300202	11/5/99	341	03300292	254	184	No	n/a
				327	24	No	n/a
				341	56	No	n/a
				225	52	No	n/a
				254	56	No	n/a
				254	72	No	n/a
03300302	11/5/99	254	03300391	240	56	No	n/a
				254	68	No	n/a
03300393	11/20/99	<225	n/a	n/a	n/a	No	n/a
03300402	11/5/99	255	03300493	255	112	No	n/a
03300492	11/9/99	<225	n/a	n/a	n/a	No	n/a
03300502	11/5/99	678	03300593	678	40	No	n/a
				400	16	No	n/a
				500	48	No	n/a
				357	43	No	n/a
				327	28	No	n/a
				240	52	No	n/a
				227	132	No	n/a
				236	48	No	n/a
03300603	11/5/99	192	n/a	n/a	n/a	No	n/a
03300692	11/9/99	<225	n/a	n/a	n/a	No	n/a
03300706	11/6/99	225	03300793	225	32	No	n/a
03300792	11/9/99	<225	n/a	n/a	n/a	No	n/a
03300804	11/6/99	192	n/a	n/a	n/a	No	n/a
03300891	11/9/99	<225	N/A	n/a	n/a	No	n/a
03300902	11/5/99	429	03300993	236	20	No	n/a
				240	16	No	n/a
				327	172	No	n/a
				225	40	No	n/a
				251	32	No	n/a
				429	44	No	n/a
03300992	11/9/99	<225	n/a	n/a	n/a	No	n/a
03301002	11/6/99	470	03301092	378	40	No	n/a
				240	60	No	n/a
				251	12	No	n/a
				470	28	No	n/a

Final Scan Survey Number[1]	Scan Survey Date	Max. Result (dpm/100cm^2) [2]	Investigation Survey Number	Scan value >75% of EMC (dpm/100cm^2) [4]	Electra Investigation Result (dpm/100cm^2) [3]	Decon required (y/n)	Final Investigation Value (dpm/100cm^2) [3]
03301002	11/6/99	470	03301092	255	40	No	n/a
03301093	11/9/99	<225	n/a	n/a	n/a	No	n/a
03320102	8/18/99	144	n/a	n/a	n/a	No	n/a
03320190	11/20/99	<225	n/a	n/a	n/a	No	n/a
03320202	8/18/99	139	n/a	n/a	n/a	No	n/a
03320290	11/20/99	<225	n/a	n/a	n/a	No	n/a
03320302	8/18/99	169	n/a	n/a	n/a	No	n/a
03320390	11/20/99	<225	n/a	n/a	n/a	No	n/a
03320402	8/18/99	169	n/a	n/a	n/a	No	n/a
03320490	11/20/99	<225	n/a	n/a	n/a	No	n/a
03320500	8/18/99	169	n/a	n/a	n/a	No	n/a
03320602	8/18/99	169	n/a	n/a	n/a	No	n/a
03320690	11/20/99	<225	n/a	n/a	n/a	No	n/a
03320702	8/18/99	203	n/a	n/a	n/a	No	n/a
03320790	11/20/99	<225	n/a	n/a	n/a	No	n/a
03320803	11/17/99	156	n/a	n/a	n/a	No	n/a
03320892	11/20/99	<225	n/a	n/a	n/a	No	n/a
03320902	8/17/99	440	03320993	440	28	No	n/a
03320992	11/20/99	<225	n/a	n/a	n/a	No	n/a
03321001	8/17/99	169	n/a	n/a	n/a	No	n/a
03321102	8/17/99	203	n/a	n/a	n/a	No	n/a
03365100	7/28/99	251	03365190	251	15	No	n/a
				231	52	No	n/a
03365200	7/28/99	251	03365290	251	24	No	n/a
03365300	7/28/99	301	03365390	243	-2	No	n/a
				251	10	No	n/a
				228	10	No	n/a
				301	6	No	n/a
03365400	7/28/99	197	n/a	n/a	n/a	No	n/a
03365600	7/28/99	201	n/a	n/a	n/a	No	n/a
03365700	7/28/99	301	03365790	301	36	No	n/a
				251	20	No	n/a
03365800	7/28/99	251	03365890	251	36	No	n/a
03365900	7/28/99	422	03365990	251	0	No	n/a
				422	0	No	n/a
				290	24	No	n/a
03366000	7/28/99	288	03366090	251	24	No	n/a
				247	76	No	n/a
				288	48	No	n/a
				235	28	No	n/a
				251	32	No	n/a
03366100	7/28/99	251	03366190	251	0	No	n/a
				251	0	No	n/a
				251	28	No	n/a

Final Scan Survey Number[1]	Scan Survey Date	Max. Result (dpm/100cm^2) [2]	Investigation Survey Number	Scan value >75% of EMC (dpm/100cm^2) [4]	Electra Investigation Result (dpm/100cm^2) [3]	Decon required (y/n)	Final Investigation Value (dpm/100cm^2) [3]
03385100	7/28/99	222	n/a	n/a	n/a	No	n/a

(1) The first six characters represent the survey subunit number The last two numbers represent the detector type
(2) NE Electra scan results are reported as < 225 dpm/100 cm^2 when no areas are flagged.
(3) One-square meter averages are verified as less than 75 dpm/100 cm^2 when individual measurements in excess of 100 dpm/100 cm^2 are present
(4) In some cases, dedicated decon personnel worked in parallel with the Millennium Services survey technicians such that elevated areas were immediately decontaminated. For these cases, the follow-up Electra investigation value (refer to column 6) will reflect the post-decon radiological status of the area.

Detailed scan survey instructions and results are on file in the Building 779 project files

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Table A.7
Survey Unit 77934 Scan Data Summary

Final Scan Survey Number[1]	Scan Survey Date	Max. Result (dpm/100cm^2) [2]	Investigation Survey Number	Scan value >75% of EMC (dpm/100cm^2) [4]	Electra Investigation Result (dpm/100cm^2) [3]	Decon required (y/n)	Final Investigation Value (dpm/100cm^2) [3]
03400100	11/16/99	236	03400191	236	16	No	n/a
				234	28	No	n/a
				236	32	No	n/a
03400190	11/18/99	<225	n/a	n/a	n/a	No	n/a
03400200	11/12/99	283	03400290	283	24	No	n/a
				236	16	No	n/a
				236	28	No	n/a
				236	36	No	n/a
				236	8	No	n/a
03400300	11/12/99	618	03400391	236	16	No	n/a
				378	24	No	n/a
				236	20	No	n/a
				236	44	No	n/a
				236	0	No	n/a
				618	20	No	n/a
				283	8	No	n/a
				236	4	No	n/a
				236	16	No	n/a
				283	36	No	n/a
				240	0	No	n/a
				233	20	No	n/a
				236	28	No	n/a
03400390	11/15/99	<225	n/a	n/a	n/a	No	n/a
03400400	11/12/99	378	03400491	227	12	No	n/a
				378	8	No	n/a
				330	396	Yes	12
03400490	11/15/99	<225	n/a	n/a	n/a	No	n/a
03400500	11/12/99	620	03400591	236	16	No	n/a
				229	28	No	n/a
				330	20	No	n/a
				283	92	No	n/a
				620	606	Yes	20
				283	24	No	n/a
				567	360	Yes	24
				236	0	No	n/a
03400590	11/16/99	<225	n/a	n/a	n/a	No	n/a
03400600	11/12/99	945	03400691	284	0	No	n/a
				283	4	No	n/a

Final Scan Survey Number[1]	Scan Survey Date	Max. Result (dpm/100cm^2) [2]	Investigation Survey Number	Scan value >75% of EMC (dpm/100cm^2) [4]	Electra Investigation Result (dpm/100cm^2) [3]	Decon required (y/n)	Final Investigation Value (dpm/100cm^2) [3]
03400600	11/12/99	945	03400691	236	12	No	n/a
				240	20	No	n/a
				287	128	No	n/a
				240	180	No	n/a
				945	948	Yes	36
				283	24	No	n/a
				228	20	No	n/a
				236	32	No	n/a
				283	16	No	n/a
				555	336	Yes	4
03400690	11/16/99	<225	n/a	n/a	n/a	No	n/a
03400700	11/13/99	945	03400790	945	480	Yes	8
				236	20	No	n/a
				236	4	No	n/a
				251	24	No	n/a
				236	56	No	n/a
				233	48	No	n/a
				236	48	No	n/a
				236	48	No	n/a
				236	48	No	n/a
				236	36	No	n/a
				236	28	No	n/a
03400800	11/13/99	453	03400891	232	20	No	n/a
				236	44	No	n/a
				453	20	No	n/a
				284	12	No	n/a
				418	272	Yes	44
				236	20	No	n/a
				236	56	No	n/a
				378	16	No	n/a
03400890	11/17/99	<225	n/a	n/a	n/a	No	n/a
03400900	11/13/99	625	03400991	236	16	No	n/a
				313	20	No	n/a
				236	16	No	n/a
				236	44	No	n/a
				520	0	No	n/a
				625	40	No	n/a
				236	4	No	n/a
				284	31	No	n/a
				236	12	No	n/a
				283	20	No	n/a
				236	8	No	n/a
				284	0	No	n/a
				236	24	No	n/a

Final Scan Survey Number[1]	Scan Survey Date	Max. Result (dpm/100cm^2) [2]	Investigation Survey Number	Scan value >75% of EMC (dpm/100cm^2) [4]	Electra Investigation Result (dpm/100cm^2) [3]	Decon required (y/n)	Final Investigation Value (dpm/100cm^2) [3]
03400900	11/13/99	625	03400991	260	8	No	n/a
				284	24	No	n/a
03400990	11/17/99	<225	n/a	n/a	n/a	No	n/a
03401000	11/19/99	570	03401091	327	36	No	n/a
				327	12	No	n/a
				570	56	No	n/a
03401090	11/21/99	<225	n/a	n/a	n/a	No	n/a
03401100	11/19/99	691	03401191	345	24	No	n/a
				691	12	No	n/a
				236	32	No	n/a
				320	20	No	n/a
03401190	11/21/99	<225	n/a	n/a	n/a	No	n/a
03401200	11/19/99	423	03401291	291	4	No	n/a
				255	16	No	n/a
				423	40	No	n/a
				255	24	No	n/a
				255	28	No	n/a
				255	48	No	n/a
03401290	11/21/99	<225	n/a	n/a	n/a	No	n/a
03401300	11/13/99	284	03401391	284	128	No	n/a
				236	360	Yes	8
				236	12	No	n/a
03401390	11/20/99	<225	n/a	n/a	n/a	No	n/a
03401400	11/13/99	236	03401491	236	36	No	n/a
03401490	11/20/99	<225	n/a	n/a	n/a	No	n/a
03420101	11/16/99	189	n/a	n/a	n/a	No	n/a
03420190	11/19/99	<225	n/a	n/a	n/a	No	n/a
03420201	11/16/99	218	n/a	n/a	n/a	No	n/a
03420290	11/18/99	<225	n/a	n/a	n/a	No	n/a
03420300	11/15/99	487	03420391	291	16	No	n/a
				349	40	No	n/a
				236	148	No	n/a
				487	16	No	n/a
03420390	11/18/99	<225	n/a	n/a	n/a	No	n/a
03420400	11/15/99	363	03420490	243	16	No	n/a
				254	24	No	n/a
				363	0	No	n/a
03420501	11/16/99	163	n/a	n/a	n/a	No	n/a
03420590	11/18/99	<225	n/a	n/a	n/a	No	n/a
03420600	11/15/99	272	03420691	241	56	No	n/a
				272	56	No	n/a
03420690	11/18/99	<225	n/a	n/a	n/a	No	n/a
03420700	11/15/99	436	03420791	436	16	No	n/a
03420790	11/18/99	<225	n/a	n/a	n/a	No	n/a

Final Scan Survey Number[1]	Scan Survey Date	Max. Result (dpm/100cm^2) [2]	Investigation Survey Number	Scan value >75% of EMC (dpm/100cm^2) [4]	Electra Investigation Result (dpm/100cm^2) [3]	Decon required (y/n)	Final Investigation Value (dpm/100cm^2) [3]
03420800	11/15/99	258	03420891	258	8	No	n/a
03420890	11/19/99	<225	n/a	n/a	n/a	No	n/a
03420900	11/16/99	141	n/a	n/a	n/a	No	n/a
03420990	11/20/99	<225	n/a	n/a	n/a	No	n/a
03421000	11/16/99	202	n/a	n/a	n/a	No	n/a
03421090	11/20/99	<225	n/a	n/a	n/a	No	n/a
03421100	11/16/99	236	03421191	225	16	No	n/a
				236	40	No	n/a
03421190	11/20/99	<225	n/a	n/a	n/a	No	n/a
03421201	11/16/99	490	03421290	490	36	No	n/a
03421291	11/19/99	<225	n/a	n/a	n/a	No	n/a
03465100	11/16/99	236	03465191	236	44	No	n/a
03465190	11/21/99	<225	n/a	n/a	n/a	No	n/a
03465200	11/16/99	236	03465291	236	36	No	n/a
03465290	11/21/99	662	n/a	348	n/a	Yes	Component removed
				662	n/a	Yes	Component removed
03465300	11/16/99	230	03465391	23 0	24	No	n/a
03465390	11/21/99	<225	n/a	n/a	n/a	No	n/a
03465400	11/16/99	214	n/a	n/a	n/a	No	n/a
03465500	11/16/99	378	03465591	236	4	No	n/a
				378	28	No	n/a
				236	4	No	n/a
03465590	11/26/99	<225	n/a	n/a	n/a	No	n/a
03465600	11/17/99	181	n/a	n/a	n/a	No	n/a
03465690	11/21/99	<225	n/a	n/a	n/a	No	n/a
03465700	11/17/99	272	03465791	272	48	No	n/a
03465790	11/21/99	<225	n/a	n/a	n/a	No	n/a
03465800	11/17/99	169	n/a	n/a	n/a	No	n/a
03465890	11/21/99	<225	n/a	n/a	n/a	No	n/a
03465900	11/16/99	145	n/a	n/a	n/a	No	n/a
03465990	11/26/99	<225	n/a	n/a	n/a	No	n/a
03466000	11/16/99	179	n/a	n/a	n/a	No	n/a
03466090	11/26/99	<225	n/a	n/a	n/a	No	n/a
03466100	11/17/99	281	03466190	281	44	No	n/a
03466191	11/26/99	<225	n/a	n/a	n/a	No	n/a
03466200	11/17/99	181	n/a	n/a	n/a	No	n/a
03466290	11/21/99	<225	n/a	n/a	n/a	No	n/a
03485190	11/12/99	<225	n/a	n/a	n/a	No	n/a
03485191	11/12/99	<225	n/a	n/a	n/a	No	n/a
03485290	11/12/99	<225	n/a	n/a	n/a	No	n/a
03485291	11/15/99	<225	n/a	n/a	n/a	No	n/a
03485390	11/15/99	<225	n/a	n/a	n/a	No	n/a

Final Scan Survey Number[1]	Scan Survey Date	Max. Result (dpm/100cm^2) [2]	Investigation Survey Number	Scan value >75% of EMC (dpm/100cm^2) [4]	Electra Investigation Result (dpm/100cm^2) [3]	Decon required (y/n)	Final Investigation Value (dpm/100cm^2) [3]
03485490	11/16/99	<225	n/a	n/a	n/a	No	n/a
03485590	11/16/99	<225	n/a	n/a	n/a	No	n/a
03485690	11/17/99	<225	n/a	n/a	n/a	No	n/a
03485790	11/16/99	<225	n/a	n/a	n/a	No	n/a
03485890	11/16/99	<225	n/a	n/a	n/a	No	n/a

(1) The first six characters represent the survey subunit number The last two numbers represent the detector type
(2) NE Electra scan results are reported as < 225 dpm/100 cm^2 when no areas are flagged.
(3) One-square meter averages are verified as less than 75 dpm/100 cm^2 when individual measurements in excess of 100 dpm/100 cm^2 are present
(4) In some cases, dedicated decon personnel worked in parallel with the Millennium Services survey technicians such that elevated areas were immediately decontaminated. For these cases, the follow-up Electra investigation value (refer to column 6) will reflect the post-decon radiological status of the area.

Detailed scan survey instructions and results are on file in the Building 779 project files

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Table A.8
Survey Unit 77935 Scan Data Summary

Final Scan Survey Number[1]	Scan Survey Date	Max. Result (dpm/100cm^2) [2]	Investigation Survey Number	Scan value >75% of EMC (dpm/100cm^2) [4]	Electra Investigation Result (dpm/100cm^2) [3]	Decon required (y/n)	Final Investigation Value (dpm/100cm^2) [3]
03500100	11/13/99	262	03500190	236	8	No	n/a
				262	40	No	n/a
				240	28	No	n/a
03500200	11/15/99	284	03500290	236	4	No	n/a
				236	20	No	n/a
				284	-4	No	n/a
				236	48	No	n/a
				283	16	No	n/a
				236	16	No	n/a
03500300	11/15/99	354	03500391	236	40	No	n/a
				272	32	No	n/a
				331	40	No	n/a
				236	76	No	n/a
				284	-4	No	n/a
				281	48	No	n/a
				354	100	No	n/a
03500390	11/19/99	<225	n/a	n/a	n/a	No	n/a
03500400	11/13/99	709	03500491	236	16	No	n/a
				520	320	Yes	12
				236	16	No	n/a
				236	32	No	n/a
				236	0	No	n/a
				331	328	Yes	8
				236	20	No	n/a
				278	36	No	n/a
				709	332	Yes	48
				236	20	No	n/a
				284	12	No	n/a
03500490	11/17/99	<225	n/a	n/a	n/a	No	n/a
03500500	11/15/99	284	03500590	236	12	No	n/a
				282	92	No	n/a
				236	12	No	n/a
				236	60	No	n/a
				284	20	No	n/a
				236	-4	No	n/a
				284	44	No	n/a
				236	4	No	n/a
03500600	11/15/99	433	03500691	227	60	No	n/a

Final Scan Survey Number[1]	Scan Survey Date	Max. Result (dpm/100cm^2) [2]	Investigation Survey Number	Scan value >75% of EMC (dpm/100cm^2) [4]	Electra Investigation Result (dpm/100cm^2) [3]	Decon required (y/n)	Final Investigation Value (dpm/100cm^2) [3]
03500600	11/15/99	433	03500691	236	64	No	n/a
				324	132	No	n/a
				236	200	No	n/a
				236	12	No	n/a
				236	20	No	n/a
				433	168	No	n/a
				236	24	No	n/a
				236	4	No	n/a
				276	80	No	n/a
				400	12	No	n/a
03500690	11/19/99	<225	n/a	n/a	n/a	No	n/a
03500700	11/13/99	1181	03500791	236	40	No	n/a
				284	28	No	n/a
				377	216	No	n/a
				756	16	No	n/a
				236	20	No	n/a
				260	20	No	n/a
				1181	16	No	n/a
				234	20	No	n/a
				284	20	No	n/a
				284	12	No	n/a
				236	8	No	n/a
				282	44	No	n/a
				378	260	Yes	12
03500790	11/22/99	<225	n/a	n/a	n/a	No	n/a
03500800	11/15/99	2109	03500890	236	4	No	n/a
				236	4	No	n/a
				284	32	No	n/a
				281	152	No	n/a
				231	56	No	n/a
				225	116	No	n/a
				2109	1530	Yes	24
03500900	11/15/99	300	03500990	236	8	No	n/a
				236	20	No	n/a
				300	24	No	n/a
				225	-8	No	n/a
03501000	11/19/99	400	03501091	251	28	No	n/a
				400	32	No	n/a
03501090	11/21/99	<225	n/a	n/a	n/a	No	n/a
03501100	11/19/99	364	03501191	255	4	No	n/a
				236	304	Yes	4
				345	48	No	n/a
				364	72	No	n/a
03501190	11/21/99	<225	n/a	n/a	n/a	No	n/a

Final Scan Survey Number[1]	Scan Survey Date	Max. Result (dpm/100cm^2) [2]	Investigation Survey Number	Scan value >75% of EMC (dpm/100cm^2) [4]	Electra Investigation Result (dpm/100cm^2) [3]	Decon required (y/n)	Final Investigation Value (dpm/100cm^2) [3]
03501200	11/19/99	181	n/a	n/a	n/a	No	n/a
03501290	11/21/99	<225	n/a	n/a	n/a	No	n/a
03520101	11/16/99	181	n/a	n/a	n/a	No	n/a
03520200	11/16/99	260	03520291	236	16	No	n/a
				260	16	No	n/a
03520290	11/22/99	<225	n/a	n/a	n/a	No	n/a
03520300	11/16/99	255	03520391	236	-12	No	n/a
				236	48	No	n/a
				236	12	No	n/a
				236	12	No	n/a
				236	4	No	n/a
				236	12	No	n/a
				255	8	No	n/a
03520390	11/22/99	<225	n/a	n/a	n/a	No	n/a
03520400	11/16/99	235	03520491	235	0	No	n/a
				235	16	No	n/a
03520490	12/1/99	<225	n/a	n/a	n/a	No	n/a
03520500	11/15/99	283	03520591	236	44	No	n/a
				233	0	No	n/a
				236	32	No	n/a
				283	24	No	n/a
				282	44	No	n/a
03520590	11/19/99	<225	n/a	n/a	n/a	No	n/a
03520600	11/15/99	378	03520690	283	16	No	n/a
				236	44	No	n/a
				236	84	No	n/a
				378	44	No	n/a
				284	40	No	n/a
03520700	11/15/99	375	03520791	236	12	No	n/a
				236	32	No	n/a
				236	12	No	n/a
				375	36	No	n/a
				236	16	No	n/a
				236	40	No	n/a
				233	48	No	n/a
03520790	11/19/99	<225	n/a	n/a	n/a	No	n/a
03520800	11/17/99	461	03520891	461	20	No	n/a
03520890	11/19/99	<225	n/a	n/a	n/a	No	n/a
03520900	11/17/99	174	n/a	n/a	n/a	No	n/a
03520990	11/19/99	<225	n/a	n/a	n/a	No	n/a
03565100	11/16/99	236	03565191	236	40	No	n/a
03565190	11/27/99	456	n/a	456	n/a	Yes	56
03565200	11/16/99	236	03565291	236	8	No	n/a
				236	20	No	n/a

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Final Scan Survey Number[1]	Scan Survey Date	Max. Result (dpm/100cm^2) [2]	Investigation Survey Number	Scan value >75% of EMC (dpm/100cm^2) [4]	Electra Investigation Result (dpm/100cm^2) [3]	Decon required (y/n)	Final Investigation Value (dpm/100cm^2) [3]
03565290	11/27/99	<225	n/a	n/a	n/a	No	n/a
03565300	11/16/99	331	03565391	236	44	No	n/a
				331	16	No	n/a
03565390	11/27/99	<225	n/a	n/a	n/a	No	n/a
03565400	11/16/99	265	03565491	232	76	No	n/a
				229	28	No	n/a
				265	32	No	n/a
				228	8	No	n/a
				236	24	No	n/a
03565490	12/1/99	<225	n/a	n/a	n/a	No	n/a
03565500	11/19/99	240	03565591	240	0	No	n/a
03565590	11/22/99	<225	n/a	n/a	n/a	No	n/a
03565600	11/16/99	278	03565691	278	8	No	n/a
				236	60	No	n/a
03565690	11/27/99	<225	n/a	n/a	n/a	No	n/a
03565700	11/16/99	264	03565791	236	32	No	n/a
				260	36	No	n/a
				236	52	No	n/a
				236	68	No	n/a
				234	80	No	n/a
				264	28	No	n/a
03565790	11/27/99	<225	n/a	n/a	n/a	No	n/a
03565800	11/17/99	260	03565891	260	44	No	n/a
03565890	11/21/99	<225	n/a	n/a	n/a	No	n/a
03565900	11/17/99	203	n/a	n/a	n/a	No	n/a
03565990	11/21/99	<225	n/a	n/a	n/a	No	n/a
03585190	11/15/99	<225	n/a	n/a	n/a	No	n/a
03585290	11/17/99	<225	n/a	n/a	n/a	No	n/a
03585390	11/18/99	<225	n/a	n/a	n/a	No	n/a
03585490	11/16/99	<225	n/a	n/a	n/a	No	n/a
03585590	11/18/99	<225	n/a	n/a	n/a	No	n/a
03585690	11/17/99	<225	n/a	n/a	n/a	No	n/a
03585790	11/18/99	<225	n/a	n/a	n/a	No	n/a

(1) The first six characters represent the survey subunit number The last two numbers represent the detector type
(2) NE Electra scan results are reported as < 225 dpm/100 cm^2 when no areas are flagged.
(3) One-square meter averages are verified as less than 75 dpm/100 cm^2 when individual measurements in excess of 100 dpm/100 cm^2 are present
(4) In some cases, dedicated decon personnel worked in parallel with the Millennium Services survey technicians such that elevated areas were immediately decontaminated. For these cases, the follow-up Electra investigation value (refer to column 6) will reflect the post-decon radiological status of the area.

Detailed scan survey instructions and results are on file in the Building 779 project files

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Table A.9
Survey Unit 77936 Scan Data Summary

Final Scan Survey Number[1]	Scan Survey Date	Max. Result (dpm/100cm^2) [2]	Investigation Survey Number	Scan value >75% of EMC (dpm/100cm^2) [4]	Electra Investigation Result (dpm/100cm^2) [3]	Decon required (y/n)	Final Investigation Value (dpm/100cm^2) [3]
03600100	11/27/99	218	n/a	n/a	n/a	No	n/a
03600190	11/28/99	<225	n/a	n/a	n/a	No	n/a
03600200	11/28/99	209	n/a	n/a	n/a	No	n/a
03600290	11/30/99	<225	n/a	n/a	n/a	No	n/a
03620100	11/26/99	138	n/a	n/a	n/a	No	n/a
03620200	11/27/99	181	n/a	n/a	n/a	No	n/a
03620300	11/27/99	109	n/a	n/a	n/a	No	n/a
03620390	11/28/99	<225	n/a	n/a	n/a	No	n/a
03620391	12/1/99	<225	n/a	n/a	n/a	No	n/a
03620400	11/26/99	1254	03620491	1254	1530	Yes	28
03620490	11/28/99	<225	n/a	n/a	n/a	No	n/a
03620590	12/1/99	<225	n/a	n/a	n/a	No	n/a
03620600	11/30/99	327	03620691	327	28	No	n/a
03620690	12/2/99	<225	n/a	n/a	n/a	No	n/a
03620700	11/30/99	357	03620791	291	4	No	n/a
				357	24	No	n/a
03620790	12/2/99	<225	n/a	n/a	n/a	No	n/a
03620800	11/28/99	555	03620891	555	48	No	n/a
03620890	11/30/99	<225	n/a	n/a	n/a	No	n/a
03620900	11/28/99	145	n/a	n/a	n/a	No	n/a
03621000	11/28/99	109	n/a	n/a	n/a	No	n/a
03621090	11/29/99	<225	n/a	n/a	n/a	No	n/a
03621100	11/28/99	145	n/a	n/a	n/a	No	n/a
03621190	11/29/99	<225	n/a	n/a	n/a	No	n/a
03621200	11/28/99	218	n/a	n/a	n/a	No	n/a
03621290	11/29/99	<225	n/a	n/a	n/a	No	n/a
03621300	11/27/99	173	n/a	n/a	n/a	No	n/a
03621400	11/27/99	176	n/a	n/a	n/a	No	n/a
03621500	11/27/99	143	n/a	n/a	n/a	No	n/a
03621590	11/29/99	<225	n/a	n/a	n/a	No	n/a
03621600	11/30/99	491	03621691	491	500	Yes	40
03621690	12/2/99	<225	n/a	n/a	n/a	No	n/a
03621700	11/30/99	291	03621791	291	24	No	n/a
03621790	12/2/99	<225	n/a	n/a	n/a	No	n/a
03665200	11/27/99	327	03665291	327	24	No	n/a
03665290	11/29/99	<225	n/a	n/a	n/a	No	n/a
03665300	11/27/99	210	n/a	n/a	n/a	No	n/a
03665390	11/28/99	<225	n/a	n/a	n/a	No	n/a

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Final Scan Survey Number[1]	Scan Survey Date	Max. Result (dpm/100cm^2) [2]	Investigation Survey Number	Scan value >75% of EMC (dpm/100cm^2) [4]	Electra Investigation Result (dpm/100cm^2) [3]	Decon required (y/n)	Final Investigation Value (dpm/100cm^2) [3]
03665400	11/27/99	181	n/a	n/a	n/a	No	n/a
03665490	11/29/99	<225	n/a	n/a	n/a	No	n/a
03665500	11/27/99	120	n/a	n/a	n/a	No	n/a
03665590	11/29/99	<225	n/a	n/a	n/a	No	n/a
03665600	11/27/99	185	n/a	n/a	n/a	No	n/a
03665601	12/1/99	197	n/a	n/a	n/a	No	n/a
03665690	12/3/99	<225	n/a	n/a	n/a	No	n/a
03665700	11/27/99	160	n/a	n/a	n/a	No	n/a
03665701	12/1/99	156	n/a	n/a	n/a	No	n/a
03665790	12/3/99	<225	n/a	n/a	n/a	No	n/a
03665800	11/28/99	290	03665891	290	4	No	n/a
03665890	11/30/99	<225	n/a	n/a	n/a	No	n/a
03665900	11/28/99	145	n/a	n/a	n/a	No	n/a
03665990	11/30/99	<225	n/a	n/a	n/a	No	n/a
03666000	11/28/99	178	n/a	n/a	n/a	No	n/a
03666100	11/28/99	1091	03666191	364	0	No	n/a
				1091	8	No	n/a
03666190	11/30/90	<225	n/a	n/a	n/a	No	n/a
03666200	11/28/99	309	03666290	309	28	No	n/a
03666301	11/28/99	141	n/a	n/a	n/a	No	n/a
03666400	11/28/99	181	n/a	n/a	n/a	No	n/a
03666490	11/29/99	<225	n/a	n/a	n/a	No	n/a
03666500	11/28/99	181	n/a	n/a	n/a	No	n/a
03666600	11/27/99	116	n/a	n/a	n/a	No	n/a
03666601	12/1/99	185	n/a	n/a	n/a	No	n/a
03666690	11/29/99	<225	n/a	n/a	n/a	No	n/a
03666691	12/3/99	<225	n/a	n/a	n/a	No	n/a
03666700	11/27/99	181	n/a	n/a	n/a	No	n/a
03666701	12/1/99	220	n/a	n/a	n/a	No	n/a
03666790	12/3/99	<225	n/a	n/a	n/a	No	n/a
03666800	11/28/99	109	n/a	n/a	n/a	No	n/a
03685190	11/23/99	<225	n/a	n/a	n/a	No	n/a
03685290	11/23/99	<225	n/a	n/a	n/a	No	n/a
03685390	11/23/99	<225	n/a	n/a	n/a	No	n/a

(1) The first six characters represent the survey subunit number The last two numbers represent the detector type
(2) NE Electra scan results are reported as < 225 dpm/100 cm^2 when no areas are flagged
(3) One-square meter averages are verified as less than 75 dpm/100 cm^2 when individual measurements in excess of 100 dpm/100 cm^2 are present.
(4) In some cases, dedicated decon personnel worked in parallel with the Millennium Services survey technicians such that elevated areas were immediately decontaminated. For these cases, the follow-up Electra investigation value (refer to column 6) will reflect the post-decon radiological status of the area

Detailed scan survey instructions and results are on file in the Building 779 project files

Table A.10
Survey Unit 77937 Scan Data Summary

Final Scan Survey Number[1]	Scan Survey Date	Max. Result (dpm/100cm^2) [2]	Investigation Survey Number	Scan value >75% of EMC (dpm/100cm^2) [4]	Electra Investigation Result (dpm/100cm^2) [3]	Decon required (y/n)	Final Investigation Value (dpm/100cm^2) [3]
03700100	11/20/99	291	03700190	291	236	Yes	8
				255	28	No	n/a
03700200	11/20/99	330	03700290	330	96	No	n/a
03700300	11/19/99	207	n/a	n/a	n/a	No	n/a
03700390	11/21/99	<225	n/a	n/a	n/a	No	n/a
03700400	11/20/99	618	03700491	255	32	No	n/a
				618	720	Yes	44
03700490	11/21/99	<225	n/a	n/a	n/a	No	n/a
03700500	11/20/99	545	03700591	491	4	No	n/a
				545	40	No	n/a
				469	244	Yes	28
				236	24	No	n/a
03700590	11/21/99	<225	n/a	n/a	n/a	No	n/a
03700600	11/20/99	581	03700690	581	24	No	n/a
				236	92	No	n/a
				400	8	No	n/a
				364	96	No	n/a
				509	32	No	n/a
				255	40	No	n/a
				236	32	No	n/a
				309	115	No	n/a
				327	28	No	n/a
				324	40	No	n/a
03700700	11/20/99	4945	03700790	4945	3964	Yes	32
				1473	584	Yes	32
				509	432	Yes	28
				296	12	No	n/a
				255	296	Yes	24
				255	24	No	n/a
03700800	11/20/99	433	03700890	433	8	No	n/a
				229	24	No	n/a
03700900	11/20/99	964	03700990	964	790	Yes	20
03701001	12/4/99	8876	03701091	473	528	Yes	24
				393	456	Yes	49
				236	4	No	n/a
				254	88	No	n/a
				255	24	No	n/a
				691	312	Yes	56

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Final Scan Survey Number[1]	Scan Survey Date	Max. Result (dpm/100cm^2) [2]	Investigation Survey Number	Scan value >75% of EMC (dpm/100cm^2) [4]	Electra Investigation Result (dpm/100cm^2) [3]	Decon required (y/n)	Final Investigation Value (dpm/100cm^2) [3]
03701001	12/4/99	8876	03701091	8876	412	Yes	8
03701090	12/6/99	<225	n/a	n/a	n/a	No	n/a
03701101	12/4/99	455	03701191	291	24	No	n/a
				255	12	No	n/a
				364	92	No	n/a
				265	40	No	n/a
				455	288	Yes	12
				265	198	No	n/a
				323	72	No	n/a
				225	20	No	n/a
				400	136	No	n/a
03701190	12/6/99	<225	n/a	n/a	n/a	No	n/a
03701202	12/4/99	545	03701290	236	28	No	n/a
				236	80	No	n/a
				273	28	No	n/a
				400	56	No	n/a
				545	288	Yes	24
				255	52	No	n/a
				262	92	No	n/a
				327	244	Yes	52
				255	32	No	n/a
				372	44	No	n/a
				364	32	No	n/a
03701301	12/4/99	545	03701390	225	8	No	n/a
				255	4	No	n/a
				545	16	No	n/a
				255	40	No	n/a
				367	64	No	n/a
				357	36	No	n/a
				378	76	No	n/a
03720100	11/20/99	178	n/a	n/a	n/a	No	n/a
03720190	11/21/99	<225	n/a	n/a	n/a	No	n/a
03720200	11/20/99	218	n/a	n/a	n/a	No	n/a
03720290	11/21/99	<225	n/a	n/a	n/a	No	n/a
03720300	11/20/99	182	n/a	n/a	n/a	No	n/a
03720390	11/21/99	<225	n/a	n/a	n/a	No	n/a
03720400	11/20/99	176	n/a	n/a	n/a	No	n/a
03720490	11/21/99	<225	n/a	n/a	n/a	No	n/a
03720500	11/21/99	381	03720591	381	16	No	n/a
03720590	11/21/99	<225	n/a	n/a	n/a	No	n/a
03720600	11/21/99	145	n/a	n/a	n/a	No	n/a
03720700	11/22/99	387	03720791	254	44	No	n/a
				338	32	No	n/a
				387	40	No	n/a

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Final Scan Survey Number[1]	Scan Survey Date	Max. Result (dpm/100cm^2) [2]	Investigation Survey Number	Scan value >75% of EMC (dpm/100cm^2) [4]	Electra Investigation Result (dpm/100cm^2) [3]	Decon required (y/n)	Final Investigation Value (dpm/100cm^2) [3]
03720790	11/24/99	<225	n/a	n/a	n/a	No	n/a
03720900	11/21/99	182	n/a	n/a	n/a	No	n/a
03720990	11/21/99	<225	n/a	n/a	n/a	No	n/a
03721000	11/23/99	156	n/a	n/a	n/a	No	n/a
03721090	11/24/99	<225	n/a	n/a	n/a	No	n/a
03721100	11/23/99	164	n/a	n/a	n/a	No	n/a
03721190	11/24/99	<225	n/a	n/a	n/a	No	n/a
03721200	11/21/99	145	n/a	n/a	n/a	No	n/a
03721290	11/21/99	<225	n/a	n/a	n/a	No	n/a
03721300	11/23/99	181	n/a	n/a	n/a	No	n/a
03721390	11/24/99	<225	n/a	n/a	n/a	No	n/a
03765100	11/22/99	2578	03765191	2578	16	No	n/a
03765190	11/26/99	<225	n/a	n/a	n/a	No	n/a
03765200	11/22/99	343	03765291	343	24	No	n/a
03765290	11/26/99	<225	n/a	n/a	n/a	No	n/a
03765300	11/22/99	164	n/a	n/a	n/a	No	n/a
03765390	11/26/99	<225	n/a	n/a	n/a	No	n/a
03765400	11/22/99	145	n/a	n/a	n/a	No	n/a
03765500	11/22/99	727	03765590	618	16	No	n/a
				727	16	No	n/a
03765600	11/23/99	254	03765691	254	20	No	n/a
				225	116	No	n/a
03765690	11/24/99	<225	n/a	n/a	n/a	No	n/a
03765700	11/23/99	218	n/a	n/a	n/a	No	n/a
03765790	11/24/99	<225	n/a	n/a	n/a	No	n/a
03765900	11/21/99	163	n/a	n/a	n/a	No	n/a
03765990	11/27/99	<225	n/a	n/a	n/a	No	n/a
03766000	11/23/99	181	n/a	n/a	n/a	No	n/a
03766090	11/24/99	<225	n/a	n/a	n/a	No	n/a
03766100	11/23/99	509	03766191	254	56	No	n/a
				509	36	No	n/a
03766190	11/24/99	<225	n/a	n/a	n/a	No	n/a
03766200	11/21/99	200	n/a	n/a	n/a	No	n/a
03766290	11/27/99	<225	n/a	n/a	n/a	No	n/a
03766300	11/23/99	509	03766391	509	36	No	n/a
03766390	11/24/99	<225	n/a	n/a	n/a	No	n/a
03785190	11/19/99	<225	n/a	n/a	n/a	No	n/a
03785290	11/19/99	<225	n/a	n/a	n/a	No	n/a
03785390	11/22/99	<225	n/a	n/a	n/a	No	n/a
03785490	11/20/99	<225	n/a	n/a	n/a	No	n/a
03785590	11/20/99	<225	n/a	n/a	n/a	No	n/a
03785690	11/20/99	<225	n/a	n/a	n/a	No	n/a
03785790	11/23/99	<225	n/a	n/a	n/a	No	n/a
03785890	11/22/99	<225	n/a	n/a	n/a	No	n/a

Final Scan Survey Number[1]	Scan Survey Date	Max. Result (dpm/100cm^2) [2]	Investigation Survey Number	Scan value >75% of EMC (dpm/100cm^2) [4]	Electra Investigation Result (dpm/100cm^2) [3]	Decon required (y/n)	Final Investigation Value (dpm/100cm^2) [3]
03785990	11/22/99	<225	n/a	n/a	n/a	No	n/a
03786090	11/23/99	<225	n/a	n/a	n/a	No	n/a

(1) The first six characters represent the survey subunit number The last two numbers represent the detector type
(2) NE Electra scan results are reported as < 225 dpm/100 cm^2 when no areas are flagged.
(3) One-square meter averages are verified as less than 75 dpm/100 cm^2 when individual measurements in excess of 100 dpm/100 cm^2 are present.
(4) In some cases, dedicated decon personnel worked in parallel with the Millennium Services survey technicians such that elevated areas were immediately decontaminated. For these cases, the follow-up Electra investigation value (refer to column 6) will reflect the post-decon radiological status of the area.

Detailed scan survey instructions and results are on file in the Building 779 project files

Table A.11
Survey Unit 77938 Scan Data Summary

Final Scan Survey Number[1]	Scan Survey Date	Max. Result (dpm/100cm^2) [2]	Investigation Survey Number	Scan value >75% of EMC (dpm/100cm^2) [4]	Electra Investigation Result (dpm/100cm^2) [3]	Decon required (y/n)	Final Investigation Value (dpm/100cm^2) [3]
03800100	11/19/99	1127	03800190	255	24	No	n/a
				418	24	No	n/a
				1127	60	No	n/a
				364	16	No	n/a
				255	122	No	n/a
03800200	11/19/99	473	03800290	473	36	No	n/a
03800300	11/21/99	800	03800390	655	60	No	n/a
				239	28	No	n/a
				273	8	No	n/a
				364	28	No	n/a
				800	28	No	n/a
				273	24	No	n/a
03800400	11/21/99	52866	03800490	1381	2414	Yes	40
				407	434	Yes	12
				52866	47658	Yes	12
				26327	19298	Yes	32
03800500	11/21/99	4455	03800590	240	32	No	n/a
				4455	16	No	n/a
				327	56	No	n/a
03800600	11/21/99	218	n/a	n/a	n/a	No	n/a
03800700	11/24/99	1236	03800791	509	1446	Yes	60
				255	208	No	n/a
				382	228	Yes	60
				1236	276	Yes	52
				545	368	Yes	56
03800790	11/28/99	320	n/a	320	n/a	Yes	<225
				276	n/a	Yes	<225
				276	n/a	Yes	<225
				320	n/a	Yes	<225
				320	n/a	Yes	<225
				276	n/a	Yes	<225
03800791	12/7/99	<225	n/a	n/a	n/a	No	n/a
03800801	11/26/99	2327	03800892	2327	1900	Yes	36
				490	72	No	n/a
				288	36	No	n/a
				291	536	Yes	52
				327	12	No	n/a
03800890	11/24/99	<225	n/a	n/a	n/a	No	n/a

Final Scan Survey Number[1]	Scan Survey Date	Max. Result (dpm/100cm^2) [2]	Investigation Survey Number	Scan value >75% of EMC (dpm/100cm^2) [4]	Electra Investigation Result (dpm/100cm^2) [3]	Decon required (y/n)	Final Investigation Value (dpm/100cm^2) [3]
03820100	11/21/99	254	03820191	254	32	No	n/a
03820190	11/21/99	<225	n/a	n/a	n/a	No	n/a
03820200	11/21/99	145	n/a	n/a	n/a	No	n/a
03820290	11/21/99	<225	n/a	n/a	n/a	No	n/a
03820300	11/21/99	181	n/a	n/a	n/a	No	n/a
03820390	11/29/99	<225	n/a	n/a	n/a	No	n/a
03820400	11/21/99	154	n/a	n/a	n/a	No	n/a
03820490	11/29/99	<225	n/a	n/a	n/a	No	n/a
03820500	11/21/99	181	n/a	n/a	n/a	No	n/a
03820590	11/29/99	<225	n/a	n/a	n/a	No	n/a
03820600	11/23/99	255	03820691	255	76	No	n/a
				244	52	No	n/a
03820690	11/24/99	<225	n/a	n/a	n/a	No	n/a
03820700	11/23/99	109	n/a	n/a	n/a	No	n/a
03820790	11/24/99	<225	n/a	n/a	n/a	No	n/a
03820791	12/2/99	<225	n/a	n/a	n/a	No	n/a
03820800	11/23/99	174	n/a	n/a	n/a	No	n/a
03820890	11/24/99	<225	n/a	n/a	n/a	No	n/a
03820900	11/21/99	145	n/a	n/a	n/a	No	n/a
03820990	12/2/99	<225	n/a	n/a	n/a	No	n/a
03865100	11/22/99	77970	03865191	1818	76	No	n/a
				254	12	No	n/a
				272	24	No	n/a
				77970	16	No	n/a
03865190	11/26/99	<225	n/a	n/a	n/a	No	n/a
03865200	11/22/99	290	03865291	272	16	No	n/a
				290	20	No	n/a
03865290	11/26/99	<225	n/a	n/a	n/a	No	n/a
03865300	11/22/99	545	03865390	473	8	No	n/a
				309	24	No	n/a
				472	32	No	n/a
				545	24	No	n/a
03865400	11/22/99	890	03865491	890	28	No	n/a
				490	20	No	n/a
				384	40	No	n/a
03865490	11/24/99	<225	n/a	n/a	n/a	No	n/a
03865500	11/22/99	1018	03865591	244	28	No	n/a
				1018	8	No	n/a
				397	36	No	n/a
03865590	11/24/99	<225	n/a	n/a	n/a	No	n/a
03865600	11/23/99	364	03865691	364	32	No	n/a
03865690	11/24/99	<225	n/a	n/a	n/a	No	n/a
03865700	11/23/99	1945	n/a	927	n/a	Yes	Wall removed
				1945	n/a	Yes	Wall removed

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Final Scan Survey Number[1]	Scan Survey Date	Max. Result (dpm/100cm^2) [2]	Investigation Survey Number	Scan value >75% of EMC (dpm/100cm^2) [4]	Electra Investigation Result (dpm/100cm^2) [3]	Decon required (y/n)	Final Investigation Value (dpm/100cm^2) [3]
03865790	11/24/99	<225	n/a	n/a	n/a	No	n/a
03865791	12/5/99	n/a	n/a	n/a	n/a	No	n/a
03865800	11/23/99	145	n/a	n/a	n/a	No	n/a
03865890	11/24/99	<225	n/a	n/a	n/a	No	n/a
03865900	11/21/99	145	n/a	n/a	n/a	No	n/a
03865990	12/1/99	<225	n/a	n/a	n/a	No	n/a
03885190	11/20/99	<225	n/a	n/a	n/a	No	n/a
03885290	11/22/99	<225	n/a	n/a	n/a	No	n/a
03885390	11/19/99	<225	n/a	n/a	n/a	No	n/a

(1) The first six characters represent the survey subunit number The last two numbers represent the detector type
(2) NE Electra scan results are reported as < 225 dpm/100 cm^2 when no areas are flagged.
(3) One-square meter averages are verified as less than 75 dpm/100 cm^2 when individual measurements in excess of 100 dpm/100 cm^2 are present.
(4) In some cases, dedicated decon personnel worked in parallel with the Millennium Services survey technicians such that elevated areas were immediately decontaminated. For these cases, the follow-up Electra investigation value (refer to column 6) will reflect the post-decon radiological status of the area.

Detailed scan survey instructions and results are on file in the Building 779 project files

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Table A.12
Survey Unit 77939 Scan Data Summary

Final Scan Survey Number[1]	Scan Survey Date	Max. Result (dpm/100cm^2) [2]	Investigation Survey Number	Scan value >75% of EMC (dpm/100cm^2) [4]	Electra Investigation Result (dpm/100cm^2) [3]	Decon required (y/n)	Final Investigation Value (dpm/100cm^2) [3]
03900100	11/06/99	473	03900191	473	36	No	n/a
				240	64	No	n/a
				260	72	No	n/a
03900190	11/09/99	<225	n/a	n/a	n/a	No	n/a
03900200	11/26/99	189	n/a	n/a	n/a	No	n/a
03900290	11/28/99	<225	n/a	n/a	n/a	No	n/a
03900300	11/26/99	251	03900391	236	28	No	n/a
				251	120	No	n/a
03900390	11/28/99	<225	n/a	n/a	n/a	No	n/a
03900400	11/26/99	473	03900490	284	4	No	n/a
				277	-4	No	n/a
				236	8	No	n/a
				236	16	No	n/a
				473	-4	No	n/a
				284	16	No	n/a
03900500	11/27/99	236	03900590	236	16	No	n/a
03900600	11/26/99	920	03900691	920	232	Yes	24
				236	20	No	n/a
				333	204	No	n/a
03900690	11/28/99	484	n/a	484	24	No	n/a
03900700	11/26/99	284	03900790	236	12	No	n/a
				236	16	No	n/a
				274	68	No	n/a
				284	32	No	n/a
				251	0	No	n/a
				236	-8	No	n/a
				236	16	No	n/a
03900800	11/27/99	284	03900891	284	8	No	n/a
03900890	11/28/99	<225	n/a	n/a	n/a	No	n/a
03900900	11/26/99	189	n/a	n/a	n/a	No	n/a
03900990	11/28/99	<225	n/a	n/a	n/a	No	n/a
03901000	11/26/99	833	03901090	275	0	No	n/a
				833	556	Yes	8
03901100	12/04/99	203	n/a	n/a	n/a	No	n/a
03901190	12/05/99	<225	n/a	n/a	n/a	No	n/a
03901200	12/06/99	163	n/a	n/a	n/a	No	n/a
03901290	12/08/99	<225	n/a	n/a	n/a	No	n/a
03901300	12/09/99	218	n/a	n/a	n/a	No	n/a

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Final Scan Survey Number[1]	Scan Survey Date	Max. Result (dpm/100cm^2) [2]	Investigation Survey Number	Scan value >75% of EMC (dpm/100cm^2) [4]	Electra Investigation Result (dpm/100cm^2) [3]	Decon required (y/n)	Final Investigation Value (dpm/100cm^2) [3]
03901390	12/10/99	<225	n/a	n/a	n/a	No	n/a
03901400	12/07/99	218	n/a	n/a	n/a	No	n/a
03901500	12/08/99	221	n/a	n/a	n/a	No	n/a
03901590	12/11/99	<225	n/a	n/a	n/a	No	n/a
03901600	12/07/99	258	03901691	258	28	No	n/a
03901690	12/09/99	<225	n/a	n/a	n/a	No	n/a
03901700	12/07/99	192	n/a	n/a	n/a	No	n/a
03901790	12/09/99	<225	n/a	n/a	n/a	No	n/a
03901800	12/07/99	635	03901891	234	56	No	n/a
				635	516	Yes	12
03901890	12/09/99	<225	n/a	n/a	n/a	No	n/a
03901900	12/07/99	356	03901991	356	20	No	n/a
				236	-12	No	n/a
03901990	12/09/99	<225	n/a	n/a	n/a	No	n/a
03902000	12/07/99	355	03902091	302	40	No	n/a
				276	24	No	n/a
				273	16	No	n/a
				355	20	No	n/a
03902090	12/09/99	<225	n/a	n/a	n/a	No	n/a
03902100	12/07/99	192	n/a	n/a	n/a	No	n/a
03902200	12/08/99	338	03902291	338	56	No	n/a
				314	32	No	n/a
03902290	12/11/99	<225	n/a	n/a	n/a	No	n/a
03902295	12/07/99	<225	n/a	n/a	n/a	No	n/a
03902395	12/07/99	<225	n/a	n/a	n/a	No	n/a
03902400	12/08/99	314	03902491	314	8	No	n/a
03902490	12/11/99	<225	n/a	n/a	n/a	No	n/a
03902500	12/09/99	357	03902591	327	52	No	n/a
				357	40	No	n/a
				255	36	No	n/a
				236	12	No	n/a
				298	44	No	n/a
03902590	12/10/99	<225	n/a	n/a	n/a	No	n/a
03902600	12/09/99	259	03902691	259	48	No	n/a
				255	32	No	n/a
03902690	12/10/99	<225	n/a	n/a	n/a	No	n/a
03902700	12/08/99	298	03902790	255	48	No	n/a
				247	36	No	n/a
				254	16	No	n/a
				272	40	No	n/a
				272	24	No	n/a
				229	24	No	n/a
				298	12	No	n/a
				236	48	No	n/a

Final Scan Survey Number[1]	Scan Survey Date	Max. Result (dpm/100cm^2) [2]	Investigation Survey Number	Scan value >75% of EMC (dpm/100cm^2) [4]	Electra Investigation Result (dpm/100cm^2) [3]	Decon required (y/n)	Final Investigation Value (dpm/100cm^2) [3]
03902700	12/08/99	298	03902790	290	20	No	n/a
03920100	11/28/99	189	n/a	n/a	n/a	No	n/a
03920190	11/29/99	<225	n/a	n/a	n/a	No	n/a
03920200	11/28/99	143	n/a	n/a	n/a	No	n/a
03920290	11/29/99	<225	n/a	n/a	n/a	No	n/a
03920300	11/28/99	145	n/a	n/a	n/a	No	n/a
03920390	11/29/99	<225	n/a	n/a	n/a	No	n/a
03920400	11/28/99	189	n/a	n/a	n/a	No	n/a
03920490	11/29/99	<225	n/a	n/a	n/a	No	n/a
03920500	11/27/99	189	n/a	n/a	n/a	No	n/a
03920600	11/27/99	1527	03920691	1527	1570	Yes	16
03920690	11/28/99	<225	n/a	n/a	n/a	No	n/a
03920700	11/27/99	189	n/a	n/a	n/a	No	n/a
03920800	11/27/99	189	n/a	n/a	n/a	No	n/a
03920890	11/29/99	<225	n/a	n/a	n/a	No	n/a
03920900	11/27/99	171	n/a	n/a	n/a	No	n/a
03921000	11/27/99	141	n/a	n/a	n/a	No	n/a
03921090	11/29/99	<225	n/a	n/a	n/a	No	n/a
03921100	11/27/99	188	n/a	n/a	n/a	No	n/a
03921190	11/29/99	<225	n/a	n/a	n/a	No	n/a
03921200	11/27/99	179	n/a	n/a	n/a	No	n/a
03921290	11/30/99	<225	n/a	n/a	n/a	No	n/a
03921300	11/27/99	189	n/a	n/a	n/a	No	n/a
03921390	11/30/99	<225	n/a	n/a	n/a	No	n/a
03921400	11/27/99	284	03921491	284	20	No	n/a
03921490	11/30/99	<225	n/a	n/a	n/a	No	n/a
03921500	11/28/99	141	n/a	n/a	n/a	No	n/a
03921590	11/30/99	<225	n/a	n/a	n/a	No	n/a
03921600	12/06/99	189	n/a	n/a	n/a	No	n/a
03921690	12/08/99	<225	n/a	n/a	n/a	No	n/a
03921700	12/06/99	236	03921790	236	12	No	n/a
03921790	12/08/99	<225	n/a	n/a	n/a	No	n/a
03921800	12/04/99	167	n/a	n/a	n/a	No	n/a
03921890	12/05/99	<225	n/a	n/a	n/a	No	n/a
03921990	12/10/99	<225	n/a	n/a	n/a	No	n/a
03922000	12/04/99	473	03922091	473	364	Yes	-8
03922090	12/05/99	<225	n/a	n/a	n/a	No	n/a
03922100	12/07/99	181	n/a	n/a	n/a	No	n/a
03922190	12/09/99	<225	n/a	n/a	n/a	No	n/a
03922200	12/07/99	285	03922291	285	-8	No	n/a
03922290	12/09/99	<225	n/a	n/a	n/a	No	n/a
03922300	12/07/99	149	n/a	n/a	n/a	No	n/a
03922390	12/09/99	<225	n/a	n/a	n/a	No	n/a
03922395	12/07/99	<225	n/a	n/a	n/a	No	n/a

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Final Scan Survey Number[1]	Scan Survey Date	Max. Result (dpm/100cm^2) [2]	Investigation Survey Number	Scan value >75% of EMC (dpm/100cm^2) [4]	Electra Investigation Result (dpm/100cm^2) [3]	Decon required (y/n)	Final Investigation Value (dpm/100cm^2) [3]
03922400	12/06/99	145	n/a	n/a	n/a	No	n/a
03922490	12/08/99	<225	n/a	n/a	n/a	No	n/a
03922500	12/06/99	190	n/a	n/a	n/a	No	n/a
03922590	12/08/99	<225	n/a	n/a	n/a	No	n/a
03922591	12/18/99	730	n/a	730	n/a	Yes	40
03922600	12/06/99	214	n/a	n/a	n/a	No	n/a
03922690	12/08/99	<225	n/a	n/a	n/a	No	n/a
03922700	12/06/99	240	03922791	240	28	No	n/a
03922790	12/08/99	<225	n/a	n/a	n/a	No	n/a
03922800	12/06/99	273	03920890	273	180	No	n/a
				273	12	No	n/a
03922990	12/10/99	<225	n/a	n/a	n/a	No	n/a
03923000	12/07/99	165	n/a	n/a	n/a	No	n/a
03923090	12/09/99	<225	n/a	n/a	n/a	No	n/a
03923100	12/07/99	218	n/a	n/a	n/a	No	n/a
03923200	12/06/99	180	n/a	n/a	n/a	No	n/a
03923290	12/08/99	<225	n/a	n/a	n/a	No	n/a
03923300	12/07/99	169	n/a	n/a	n/a	No	n/a
03923400	12/07/99	130	n/a	n/a	n/a	No	n/a
03923500	12/07/99	181	n/a	n/a	n/a	No	n/a
03923600	12/07/99	167	n/a	n/a	n/a	No	n/a
03923690	12/09/99	<225	n/a	n/a	n/a	No	n/a
03923700	12/07/99	240	03923791	240	0	No	n/a
03923790	12/09/99	<225	n/a	n/a	n/a	No	n/a
03923895	12/07/99	<225	n/a	n/a	n/a	No	n/a
03923995	12/07/99	<225	n/a	n/a	n/a	No	n/a
03924000	12/07/99	207	n/a	n/a	n/a	No	n/a
03924195	12/07/99	552	n/a	552	n/a	Yes	8
03924200	12/04/99	179	n/a	n/a	n/a	No	n/a
03924290	12/05/99	<225	n/a	n/a	n/a	No	n/a
03924300	12/04/99	251	03924391	251	-8	No	n/a
03924390	12/05/99	<225	n/a	n/a	n/a	No	n/a
03924400	12/08/99	320	03924491	320	48	No	n/a
03924490	12/11/99	<225	n/a	n/a	n/a	No	n/a
03924500	12/08/99	214	n/a	n/a	n/a	No	n/a
03924600	12/08/99	272	03924690	272	60	No	n/a
03924700	12/08/99	253	03924791	253	8	No	n/a
03924790	12/11/99	<225	n/a	n/a	n/a	No	n/a
03924890	12/11/99	<225	n/a	n/a	n/a	No	n/a
03924900	12/08/99	327	03924991	327	28	No	n/a
				273	32	No	n/a
03924990	12/14/99	<225	n/a	n/a	n/a	No	n/a
03925000	12/08/99	309	03925091	309	16	No	n/a
03925090	12/11/99	<225	n/a	n/a	n/a	No	n/a

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Final Scan Survey Number[1]	Scan Survey Date	Max. Result (dpm/100cm^2) [2]	Investigation Survey Number	Scan value >75% of EMC (dpm/100cm^2) [4]	Electra Investigation Result (dpm/100cm^2) [3]	Decon required (y/n)	Final Investigation Value (dpm/100cm^2) [3]
03965100	11/06/99	203	n/a	n/a	n/a	No	n/a
03965200	11/06/99	218	n/a	n/a	n/a	No	n/a
03965300	11/06/99	240	03965390	240	56	No	n/a
03965700	11/27/99	425	03965790	425	384	Yes	12
03965800	11/27/99	141	n/a	n/a	n/a	No	n/a
03965900	11/27/99	189	n/a	n/a	n/a	No	n/a
03966300	11/27/99	153	n/a	n/a	n/a	No	n/a
03966390	12/03/99	<225	n/a	n/a	n/a	No	n/a
03966500	11/28/99	141	n/a	n/a	n/a	No	n/a
03966600	12/04/99	178	n/a	n/a	n/a	No	n/a
03966700	12/06/99	212	n/a	n/a	n/a	No	n/a
03967400	12/08/99	189	n/a	n/a	n/a	No	n/a
03967500	12/08/99	745	03967590	745	-4	No	n/a
03967600	12/08/99	145	n/a	n/a	n/a	No	n/a
03967800	12/08/99	189	n/a	n/a	n/a	No	n/a
03968895	12/07/99	<225	n/a	n/a	n/a	No	n/a
03968995	12/07/99	<225	n/a	n/a	n/a	No	n/a
03969195	12/07/99	<225	n/a	n/a	n/a	No	n/a
03969200	12/04/99	163	n/a	n/a	n/a	No	n/a
03970000	12/08/99	255	03970090	255	16	No	n/a
03985100	11/06/99	212	n/a	n/a	n/a	No	n/a
03985200	11/29/99	644	03985290	236	40	No	n/a
				232	20	No	n/a
				644	4	No	n/a
				273	28	No	n/a
				290	36	No	n/a
03985300	12/06/99	169	n/a	n/a	n/a	No	n/a
03985400	12/08/99	169	n/a	n/a	n/a	No	n/a

(1) The first six characters represent the survey subunit number The last two numbers represent the detector type
(2) NE Electra scan results are reported as < 225 dpm/100 cm^2 when no areas are flagged.
(3) One-square meter averages are verified as less than 75 dpm/100 cm^2 when individual measurements in excess of 100 dpm/100 cm^2 are present.
(4) In some cases, dedicated decon personnel worked in parallel with the Millennium Services survey technicians such that elevated areas were immediately decontaminated. For these cases, the follow-up Electra investigation value (refer to column 6) will reflect the post-decon radiological status of the area.

Detailed scan survey instructions and results are on file in the Building 779 project files

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Table A.13
Survey Unit 77940 Scan Data Summary

Final Scan Survey Number[1]	Scan Survey Date	Max. Result (dpm/100cm^2) [2]	Investigation Survey Number	Scan value >75% of EMC (dpm/100cm^2) [4]	Electra Investigation Result (dpm/100cm^2) [3]	Decon required (y/n)	Final Investigation Value (dpm/100cm^2) [3]
04020100	12/03/99	178	n/a	n/a	n/a	No	n/a
04020190	12/05/99	<225	n/a	n/a	n/a	No	n/a
04020200	12/03/99	173	n/a	n/a	n/a	No	n/a
04020290	12/05/99	<225	n/a	n/a	n/a	No	n/a
04020300	12/03/99	400	04020391	400	874	Yes	Wall removed
04020390	12/05/99	<225	n/a	n/a	n/a	No	n/a
04020400	12/03/99	189	n/a	n/a	n/a	No	n/a
04020490	12/05/99	<225	n/a	n/a	n/a	No	n/a
04020500	12/03/99	198	n/a	n/a	n/a	No	n/a
04020590	12/16/99	<225	n/a	n/a	n/a	No	n/a
04020591	12/17/99	<225	n/a	n/a	n/a	No	n/a
04020600	12/03/99	1382	04020691	1382	1492	Yes	16
04020690	12/05/99	<225	n/a	n/a	n/a	No	n/a
04020692	12/17/99	<225	n/a	n/a	n/a	No	n/a
04020700	12/03/99	176	n/a	n/a	n/a	No	n/a
04020790	12/05/99	n/a	n/a	n/a	n/a	No	n/a
04020791	12/17/99	<225	n/a	n/a	n/a	No	n/a
04020800	12/03/99	189	n/a	n/a	n/a	No	n/a
04020890	12/05/99	n/a	n/a	n/a	n/a	No	n/a
04020900	12/03/99	189	n/a	n/a	n/a	No	n/a
04020990	12/05/99	n/a	n/a	n/a	n/a	No	n/a
04021100	12/03/99	618	04021191	618	634	Yes	24
04021190	12/05/99	n/a	n/a	n/a	n/a	No	n/a
04021200	12/03/99	185	n/a	n/a	n/a	No	n/a
04021290	12/05/99	n/a	n/a	n/a	n/a	No	n/a
04021300	12/03/99	189	n/a	n/a	n/a	No	n/a
04021400	12/03/99	277	04021491	277	80	No	n/a
04021490	12/05/99	<225	n/a	n/a	n/a	No	n/a
04021801	12/15/99	178	n/a	n/a	n/a	No	n/a
04021890	12/16/99	<225	n/a	n/a	n/a	No	n/a
04021900	12/11/99	178	n/a	n/a	n/a	No	n/a
04021990	12/10/99	<225	n/a	n/a	n/a	No	n/a
04022000	12/11/99	165	n/a	n/a	n/a	No	n/a
04022090	12/10/99	<225	n/a	n/a	n/a	No	n/a
04022100	12/11/99	130	n/a	n/a	n/a	No	n/a
04022190	12/10/99	<225	n/a	n/a	n/a	No	n/a
04022200	12/11/99	188	n/a	n/a	n/a	No	n/a
04022290	12/10/99	<225	n/a	n/a	n/a	No	n/a

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Final Scan Survey Number[1]	Scan Survey Date	Max. Result (dpm/100cm^2) [2]	Investigation Survey Number	Scan value >75% of EMC (dpm/100cm^2) [4]	Electra Investigation Result (dpm/100cm^2) [3]	Decon required (y/n)	Final Investigation Value (dpm/100cm^2) [3]
04022300	12/11/99	189	n/a	n/a	n/a	No	n/a
04022390	12/15/99	<225	n/a	n/a	n/a	No	n/a
04022400	12/11/99	189	n/a	n/a	n/a	No	n/a
04022500	12/11/99	178	n/a	n/a	n/a	No	n/a
04022590	12/15/99	<225	n/a	n/a	n/a	No	n/a
04022600	12/11/99	183	n/a	n/a	n/a	No	n/a
04022690	12/15/99	<225	n/a	n/a	n/a	No	n/a
04022700	12/10/99	163	n/a	n/a	n/a	No	n/a
04022790	12/15/99	<225	n/a	n/a	n/a	No	n/a
04022800	12/10/99	141	n/a	n/a	n/a	No	n/a
04022890	12/11/99	<225	n/a	n/a	n/a	No	n/a
04022900	12/10/99	251	04022991	251	52	No	n/a
				236	0	No	n/a
04022990	12/10/99	<225	n/a	n/a	n/a	No	n/a
04023000	12/10/99	189	n/a	n/a	n/a	No	n/a
04023090	12/13/99	<225	n/a	n/a	n/a	No	n/a
04023100	12/10/99	206	n/a	n/a	n/a	No	n/a
04023190	12/20/99	<225	n/a	n/a	n/a	No	n/a
04023200	12/11/99	181	n/a	n/a	n/a	No	n/a
04023290	12/13/99	<225	n/a	n/a	n/a	No	n/a
04023300	12/11/99	192	n/a	n/a	n/a	No	n/a
04023390	12/13/99	<225	n/a	n/a	n/a	No	n/a
04023400	12/11/99	172	n/a	n/a	n/a	No	n/a
04023490	12/13/99	<225	n/a	n/a	n/a	No	n/a
04023500	12/11/99	181	n/a	n/a	n/a	No	n/a
04023590	12/13/99	<225	n/a	n/a	n/a	No	n/a
04023600	12/11/99	126	n/a	n/a	n/a	No	n/a
04023690	12/15/99	<225	n/a	n/a	n/a	No	n/a
04023700	12/11/99	188	n/a	n/a	n/a	No	n/a
04023790	12/15/99	<225	n/a	n/a	n/a	No	n/a
04023890	12/15/99	<225	n/a	n/a	n/a	No	n/a
04023900	12/11/99	145	n/a	n/a	n/a	No	n/a
04023990	12/15/99	<225	n/a	n/a	n/a	No	n/a
04024000	12/11/99	181	n/a	n/a	n/a	No	n/a
04024090	12/15/99	<225	n/a	n/a	n/a	No	n/a
04024100	12/11/99	145	n/a	n/a	n/a	No	n/a
04024190	12/15/99	<225	n/a	n/a	n/a	No	n/a
04024200	12/17/99	112	n/a	n/a	n/a	No	n/a
04024290	12/19/99	<225	n/a	n/a	n/a	No	n/a
04024300	12/17/99	167	n/a	n/a	n/a	No	n/a
04024390	12/20/99	<225	n/a	n/a	n/a	No	n/a
04024400	12/13/99	109	n/a	n/a	n/a	No	n/a
04024490	12/15/99	<225	n/a	n/a	n/a	No	n/a
04024500	12/19/99	255	04024591	255	-12	No	n/a

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Final Scan Survey Number[1]	Scan Survey Date	Max. Result (dpm/100cm^2) [2]	Investigation Survey Number	Scan value >75% of EMC (dpm/100cm^2) [4]	Electra Investigation Result (dpm/100cm^2) [3]	Decon required (y/n)	Final Investigation Value (dpm/100cm^2) [3]
04024590	12/21/99	<225	n/a	n/a	n/a	No	n/a
04024600	12/19/99	1006	04024691	1006	776	Yes	20
				251	20	No	n/a
04024690	12/21/99	1344	n/a	1344	n/a	Yes	20
04024700	12/19/99	4331	04024790	273	108	No	n/a
				364	248	Yes	24
				2764	2562	Yes	8
				4331	7098	Yes	24
04024800	12/19/99	509	04024891	509	414	Yes	20
04024890	12/21/99	<225	n/a	n/a	n/a	No	n/a
04024900	12/19/99	430	04024991	430	408	Yes	Block
04024990	12/22/99	<225	n/a	n/a	n/a	No	n/a
04025000	12/19/99	200	n/a	n/a	n/a	No	n/a
04025090	12/21/99	<225	n/a	n/a	n/a	No	n/a
04025100	12/19/99	189	n/a	n/a	n/a	No	n/a
04025200	12/19/99	145	n/a	n/a	n/a	No	n/a
04025290	12/21/99	<225	n/a	n/a	n/a	No	n/a
04025300	12/19/99	654	04025391	654	8	No	n/a
04025390	12/21/99	<225	n/a	n/a	n/a	No	n/a
04025400	12/19/99	236	04025490	236	52	No	n/a
04025500	12/17/99	127	n/a	n/a	n/a	No	n/a
04025590	12/17/99	<225	n/a	n/a	n/a	No	n/a
04025600	12/17/99	145	n/a	n/a	n/a	No	n/a
04025690	12/17/99	<225	n/a	n/a	n/a	No	n/a
04025700	12/17/99	181	n/a	n/a	n/a	No	n/a
04025790	12/17/99	<225	n/a	n/a	n/a	No	n/a
04025800	12/17/99	203	n/a	n/a	n/a	No	n/a
04025890	12/19/99	<225	n/a	n/a	n/a	No	n/a
04025891	12/21/99	<225	n/a	n/a	n/a	No	n/a
04025900	12/17/99	473	04025991	473	160	No	n/a
				327	16	No	n/a
04025990	12/19/99	<225	n/a	n/a	n/a	No	n/a
04026000	12/17/99	181	n/a	n/a	n/a	No	n/a
04026090	12/19/99	<225	n/a	n/a	n/a	No	n/a
04026100	12/18/99	189	n/a	n/a	n/a	No	n/a
04026190	12/19/99	<225	n/a	n/a	n/a	No	n/a
04026200	12/18/99	163	n/a	n/a	n/a	No	n/a
04026290	12/19/99	<225	n/a	n/a	n/a	No	n/a
04026390	12/26/99	<225	n/a	n/a	n/a	No	n/a
04065200	12/03/99	255	04065290	255	0	No	n/a
04065300	12/03/99	145	n/a	n/a	n/a	No	n/a
04065500	12/03/99	181	n/a	n/a	n/a	No	n/a
04065800	12/16/99	189	n/a	n/a	n/a	No	n/a
04065900	12/04/99	413	04065990	240	16	No	n/a

Final Scan Survey Number[1]	Scan Survey Date	Max. Result (dpm/100cm^2) [2]	Investigation Survey Number	Scan value >75% of EMC (dpm/100cm^2) [4]	Electra Investigation Result (dpm/100cm^2) [3]	Decon required (y/n)	Final Investigation Value (dpm/100cm^2) [3]
04065900	12/04/99	413	04065990	413	4	No	n/a
04066101	12/16/99	196	n/a	n/a	n/a	No	n/a
04066200	12/16/99	178	n/a	n/a	n/a	No	n/a
04066400	12/03/99	254	04066490	254	20	No	n/a
04067400	12/12/99	167	n/a	n/a	n/a	No	n/a
04067700	12/10/99	189	n/a	n/a	n/a	No	n/a
04067900	12/10/99	175	n/a	n/a	n/a	No	n/a
04067901	12/10/99	175	n/a	n/a	n/a	No	n/a
04068000	12/10/99	181	n/a	n/a	n/a	No	n/a
04068001	12/10/99	167	n/a	n/a	n/a	No	n/a
04068100	12/10/99	140	n/a	n/a	n/a	No	n/a
04068101	12/10/99	181	n/a	n/a	n/a	No	n/a
04068300	12/11/99	109	n/a	n/a	n/a	No	n/a
04068400	12/11/99	733	04068490	733	8	No	n/a
04068500	12/11/99	112	n/a	n/a	n/a	No	n/a
04068600	12/11/99	218	n/a	n/a	n/a	No	n/a
04069300	12/18/99	181	n/a	n/a	n/a	No	n/a
04069301	12/22/99	134	n/a	n/a	n/a	No	n/a
04069302	12/24/99	136	n/a	n/a	n/a	No	n/a
04069390	12/23/99	<225	n/a	n/a	n/a	No	n/a
04069400	12/24/99	181	n/a	n/a	n/a	No	n/a
04069401	12/22/99	135	n/a	n/a	n/a	No	n/a
04069490	12/23/99	<225	n/a	n/a	n/a	No	n/a
04069501	12/22/99	197	n/a	n/a	n/a	No	n/a
04069502	12/24/99	189	n/a	n/a	n/a	No	n/a
04069591	12/23/99	<225	n/a	n/a	n/a	No	n/a
04069600	12/19/99	218	n/a	n/a	n/a	No	n/a
04069690	12/26/99	<225	n/a	n/a	n/a	No	n/a
04069700	12/19/99	203	n/a	n/a	n/a	No	n/a
04069790	12/26/99	<225	n/a	n/a	n/a	No	n/a
04069890	12/26/99	<225	n/a	n/a	n/a	No	n/a
04069900	12/23/99	459	04069991	459	0	No	n/a
04069990	12/24/99	<225	n/a	n/a	n/a	No	n/a
04070000	12/20/99	181	n/a	n/a	n/a	No	n/a
04070001	12/23/99	224	n/a	n/a	n/a	No	n/a
04070090	12/23/99	<225	n/a	n/a	n/a	No	n/a
04070100	12/20/99	345	04070190	345	24	No	n/a
04070101	12/23/99	204	n/a	n/a	n/a	No	n/a
04070191	12/23/99	<225	n/a	n/a	n/a	No	n/a
04070200	12/23/99	198	n/a	n/a	n/a	No	n/a
04070290	12/23/99	<225	n/a	n/a	n/a	No	n/a
04070300	12/26/99	142	n/a	n/a	n/a	No	n/a
04070390	12/23/99	<225	n/a	n/a	n/a	No	n/a
04070400	12/26/99	172	n/a	n/a	n/a	No	n/a

Final Scan Survey Number[1]	Scan Survey Date	Max. Result (dpm/100cm^2) [2]	Investigation Survey Number	Scan value >75% of EMC (dpm/100cm^2) [4]	Electra Investigation Result (dpm/100cm^2) [3]	Decon required (y/n)	Final Investigation Value (dpm/100cm^2) [3]
04070490	12/23/99	<225	n/a	n/a	n/a	No	n/a
04070500	12/24/99	192	n/a	n/a	n/a	No	n/a
04070590	12/23/99	<225	n/a	n/a	n/a	No	n/a
04070600	12/18/99	218	n/a	n/a	n/a	No	n/a
04070601	12/23/99	182	n/a	n/a	n/a	No	n/a
04070690	12/23/99	<225	n/a	n/a	n/a	No	n/a
04070700	12/18/99	203	n/a	n/a	n/a	No	n/a
04070701	12/23/99	145	n/a	n/a	n/a	No	n/a
04070790	12/23/99	<225	n/a	n/a	n/a	No	n/a
04070800	12/18/99	205	n/a	n/a	n/a	No	n/a
04070801	12/23/99	218	n/a	n/a	n/a	No	n/a
04070890	12/23/99	<225	n/a	n/a	n/a	No	n/a
04070990	12/23/99	<225	n/a	n/a	n/a	No	n/a
04071000	12/23/99	199	n/a	n/a	n/a	No	n/a
04071090	12/23/99	<225	n/a	n/a	n/a	No	n/a
04085100	12/06/99	254	04085190	236	16	No	n/a
				254	20	No	n/a
				250	40	No	n/a
04085300	12/12/99	163	n/a	n/a	n/a	No	n/a
04085400	12/12/99	141	n/a	n/a	n/a	No	n/a
04085500	12/12/99	120	n/a	n/a	n/a	No	n/a
04085600	12/16/99	218	n/a	n/a	n/a	No	n/a
04085700	12/16/99	196	n/a	n/a	n/a	No	n/a
04085800	12/16/99	199	n/a	n/a	n/a	No	n/a
04085900	12/16/99	213	n/a	n/a	n/a	No	n/a
04086000	12/20/99	1164		1164	119	No	n/a
				764	140	No	n/a
				655	76	No	n/a
04086091	12/23/99	<225	n/a	n/a	n/a	No	n/a
04086190	12/23/99	<225	n/a	n/a	n/a	No	n/a
04086290	12/23/99	<225	n/a	n/a	n/a	No	n/a
04086390	12/24/99	<225	n/a	n/a	n/a	No	n/a
04086490	12/24/99	<225	n/a	n/a	n/a	No	n/a
04086590	12/24/99	<225	n/a	n/a	n/a	No	n/a
04086690	12/26/99	<225	n/a	n/a	n/a	No	n/a
04086790	12/23/99	<225	n/a	n/a	n/a	No	n/a
04086890	12/24/99	<225	n/a	n/a	n/a	No	n/a
04086990	12/23/99	<225	n/a	n/a	n/a	No	n/a
04087090	12/24/99	<225	n/a	n/a	n/a	No	n/a
04087190	12/24/99	<225	n/a	n/a	n/a	No	n/a
04087290	12/24/99	<225	n/a	n/a	n/a	No	n/a
04087391	12/23/99	<225	n/a	n/a	n/a	No	n/a

(1) The first six characters represent the survey submit number The last two numbers represent the detector type
(2) NE Electra scan results are reported as < 225 dpm/100 cm^2 when no areas are flagged.
(3) One-square meter averages are verified as less than 75 dpm/100 cm^2 when individual measurements in excess of 100 dpm/100 cm^2 are present.
(4) In some cases, dedicated decon personnel worked in parallel with the Millennium Services survey technicians such that elevated areas were immediately decontaminated. For these cases, the follow-up Electra investigation value (refer to column 6) will reflect the post-decon radiological status of the area

Detailed scan survey instructions and results are on file in the Building 779 project files

Table A.14
Survey Unit 77941 Scan Data Summary

Final Scan Survey Number[1]	Scan Survey Date	Max. Result (dpm/100cm^2) [2]	Investigation Survey Number	Scan value >75% of EMC (dpm/100cm^2) [4]	Electra Investigation Result (dpm/100cm^2) [3]	Decon required (y/n)	Final Investigation Value (dpm/100cm^2) [3]
04100100	12/10/99	189	n/a	n/a	n/a	No	n/a
04100190	12/11/99	<225	n/a	n/a	n/a	No	n/a
04100200	12/10/99	189	n/a	n/a	n/a	No	n/a
04100290	12/11/99	<225	n/a	n/a	n/a	No	n/a
04100300	12/10/99	622	04100391	622	432	Yes	28
				335	52	No	n/a
				255	20	No	n/a
04100390	12/11/99	<225	n/a	n/a	n/a	No	n/a
04100400	12/10/99	2141	04100491	251	20	No	n/a
				2141	2098	Yes	4
				255	368	Yes	20
				240	20	No	n/a
				255	92	No	n/a
				325	16	No	n/a
				239	92	No	n/a
				255	60	No	n/a
				254	104	No	n/a
04100490	12/11/99	<225	n/a	n/a	n/a	No	n/a
04100500	12/10/99	205	n/a	n/a	n/a	No	n/a
04100590	12/11/99	<225	n/a	n/a	n/a	No	n/a
04100600	12/10/99	214	n/a	n/a	n/a	No	n/a
04100700	12/10/99	349	04100790	226	24	No	n/a
				309	28	No	n/a
				349	24	No	n/a
				279	20	No	n/a
04100800	12/10/99	192	n/a	n/a	n/a	No	n/a
04100890	12/11/99	<225	n/a	n/a	n/a	No	n/a
04100900	12/11/99	218	n/a	n/a	n/a	No	n/a
04101000	12/11/99	218	n/a	n/a	n/a	No	n/a
04101090	12/16/99	480	n/a	480	n/a	Yes	12
				420	n/a	Yes	6
04101100	12/17/99	655	04101191	545	0	No	n/a
				345	26	No	n/a
				655	432	Yes	12
				582	12	No	n/a
				310	12	No	n/a
				309	20	No	n/a
04101190	12/20/99	<225	n/a	n/a	n/a	No	n/a

Final Scan Survey Number[1]	Scan Survey Date	Max. Result (dpm/100cm^2) [2]	Investigation Survey Number	Scan value >75% of EMC (dpm/100cm^2) [4]	Electra Investigation Result (dpm/100cm^2) [3]	Decon required (y/n)	Final Investigation Value (dpm/100cm^2) [3]
04101200	12/11/99	402	04101290	402	12	No	n/a
04101300	12/11/99	400	04101390	378	8	No	n/a
				400	40	No	n/a
				364	32	No	n/a
				291	4	No	n/a
				400	16	No	n/a
04101400	12/17/99	436	04101491	364	68	No	n/a
				255	20	No	n/a
				247	28	No	n/a
				327	20	No	n/a
				436	60	No	n/a
				327	92	No	n/a
				255	48	No	n/a
04101490	12/19/99	<225	n/a	n/a	n/a	No	n/a
04101500	12/11/99	400	04101591	284	32	No	n/a
				255	20	No	n/a
				400	20	No	n/a
				255	12	No	n/a
04101590	12/15/99	<225	n/a	n/a	n/a	No	n/a
04101600	12/11/99	360	04101690	260	20	No	n/a
				251	24	No	n/a
				291	20	No	n/a
				360	12	No	n/a
				316	28	No	n/a
				260	20	No	n/a
				255	28	No	n/a
04101700	12/17/99	1236	04101791	255	16	No	n/a
				273	24	No	n/a
				945	28	No	n/a
				1236	304	Yes	8
				285	12	No	n/a
04101790	12/19/99	<225	n/a	n/a	n/a	No	n/a
04101800	12/12/99	425	04101891	400	44	No	n/a
				425	20	No	n/a
				225	28	No	n/a
04101890	12/15/99	<225	n/a	n/a	n/a	No	n/a
04101900	12/12/99	491	04101990	246	36	No	n/a
				491	12	No	n/a
				400	12	No	n/a
04102000	12/11/99	203	n/a	n/a	n/a	No	n/a
04102090	12/15/99	<225	n/a	n/a	n/a	No	n/a
04102100	12/12/99	330	04102190	330	40	No	n/a
04102200	12/12/99	615	04102290	615	8	No	n/a
				273	28	No	n/a

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Final Scan Survey Number[1]	Scan Survey Date	Max. Result (dpm/100cm^2) [2]	Investigation Survey Number	Scan value >75% of EMC (dpm/100cm^2) [4]	Electra Investigation Result (dpm/100cm^2) [3]	Decon required (y/n)	Final Investigation Value (dpm/100cm^2) [3]
04102200	12/12/99	615	04102290	255	12	No	n/a
04102300	12/12/99	218	n/a	n/a	n/a	No	n/a
04102400	12/11/99	218	n/a	n/a	n/a	No	n/a
04102490	12/16/99	<225	n/a	n/a	n/a	No	n/a
04102590	12/20/99	332	n/a	332	n/a	Yes	<225
				244	n/a	Yes	<225
04102690	12/15/99	240	n/a	n/a	n/a	No	n/a
04102790	12/23/99	11316	n/a	828	n/a	Yes	0
				5904	n/a	Yes	32
				11316	n/a	Yes	60
				292	n/a	Yes	32
				1248	n/a	Yes	72
				768	n/a	Yes	24
				712	n/a	Yes	20
				9048	n/a	Yes	24
				1356	n/a	Yes	-8
				240	n/a	Yes	92
				1812	n/a	Yes	24
				5352	n/a	Yes	28
				1332	n/a	Yes	36
				1224	n/a	Yes	28
				4248	n/a	Yes	48
				240	n/a	Yes	28
04102800	12/12/99	218	n/a	n/a	n/a	No	n/a
04102890	12/15/99	<225	n/a	n/a	n/a	No	n/a
04102900	12/12/99	181	n/a	n/a	n/a	No	n/a
04103000	12/12/99	291	04103090	225	32	No	n/a
				291	36	No	n/a
				255	20	No	n/a

(1) The first six characters represent the survey subunit number The last two numbers represent the detector type
(2) NE Electra scan results are reported as < 225 dpm/100 cm^2 when no areas are flagged.
(3) One-square meter averages are verified as less than 75 dpm/100 cm^2 when individual measurements in excess of 100 dpm/100 cm^2 are present
(4) In some cases, dedicated decon personnel worked in parallel with the Millennium Services survey technicians such that elevated areas were immediately decontaminated. For these cases, the follow-up Electra investigation value (refer to column 6) will reflect the post-decon radiological status of the area.

Detailed scan survey instructions and results are on file in the Building 779 project files

Table A.15
Survey Unit 77942 Scan Data Summary

Final Scan Survey Number[1]	Scan Survey Date	Max. Result (dpm/100cm^2) [2]	Investigation Survey Number	Scan value >75% of EMC (dpm/100cm^2) [4]	Electra Investigation Result (dpm/100cm^2) [3]	Decon required (y/n)	Final Investigation Value (dpm/100cm^2) [3]
04200100	11/24/99	283	04200190	262	12	No	n/a
				227	28	No	n/a
				283	60	No	n/a
				236	24	No	n/a
04200200	11/24/99	284	04200291	236	16	No	n/a
				284	16	No	n/a
				229	0	No	n/a
				268	40	No	n/a
				284	28	No	n/a
				236	28	No	n/a
				284	12	No	n/a
				279	36	No	n/a
				236	8	No	n/a
04200290	11/28/99	<225	n/a	n/a	n/a	No	n/a
04200300	11/24/99	1455	04200390	388	24	No	n/a
				236	44	No	n/a
				287	28	No	n/a
				1455	850	Yes	0
				236	16	No	n/a
				260	40	No	n/a
				360	36	No	n/a
				425	40	No	n/a
04200500	12/04/99	225	04200591	225	8	No	n/a
04200590	12/05/99	<225	n/a	n/a	n/a	No	n/a
04200600	12/09/99	218	n/a	n/a	n/a	No	n/a
04200690	12/10/99	<225	n/a	n/a	n/a	No	n/a
04200700	12/09/99	277	04200790	277	20	No	n/a
04200800	12/09/99	690	04200891	396	8	No	n/a
				690	64	No	n/a
				261	48	No	n/a
				273	8	No	n/a
04200890	12/10/99	<225	n/a	n/a	n/a	No	n/a
04200900	12/09/99	254	04200990	254	-8	No	n/a
04201000	12/09/99	315	04201091	315	24	No	n/a
04201090	12/10/99	<225	n/a	n/a	n/a	No	n/a
04201100	12/09/99	290	04201191	283	80	No	n/a
				260	44	No	n/a
				290	-16	No	n/a

Final Scan Survey Number[1]	Scan Survey Date	Max. Result (dpm/100cm^2) [2]	Investigation Survey Number	Scan value >75% of EMC (dpm/100cm^2) [4]	Electra Investigation Result (dpm/100cm^2) [3]	Decon required (y/n)	Final Investigation Value (dpm/100cm^2) [3]
04201190	12/10/99	<225	n/a	n/a	n/a	No	n/a
04201200	12/14/99	218	n/a	n/a	n/a	No	n/a
04201300	12/14/99	193	n/a	n/a	n/a	No	n/a
04201390	12/15/99	<225	n/a	n/a	n/a	No	n/a
04201400	12/14/99	218	n/a	n/a	n/a	No	n/a
04201500	12/14/99	501	04201591	338	40	No	n/a
				501	-4	No	n/a
04201590	12/15/99	<225	n/a	n/a	n/a	No	n/a
04220100	12/04/99	189	n/a	n/a	n/a	No	n/a
04220200	12/04/99	151	n/a	n/a	n/a	No	n/a
04220290	12/05/99	<225	n/a	n/a	n/a	No	n/a
04220300	12/15/99	141	n/a	n/a	n/a	No	n/a
04220390	12/16/99	<225	n/a	n/a	n/a	No	n/a
04220400	12/14/99	156	n/a	n/a	n/a	No	n/a
04220490	12/15/99	<225	n/a	n/a	n/a	No	n/a
04220500	12/14/99	167	n/a	n/a	n/a	No	n/a
04220590		<225	n/a	n/a	n/a	No	n/a
04220600	12/15/99	178	n/a	n/a	n/a	No	n/a
04220690	12/16/99	<225	n/a	n/a	n/a	No	n/a
04220700	12/14/99	360	04220791	360	514	Yes	-8
04220790	12/17/99	<225	n/a	n/a	n/a	No	n/a
04220800	11/26/99	761	04220891	76104	368	Yes	4
				236	0	No	n/a
04220890	12/01/99	<225	n/a	n/a	n/a	No	n/a
04220900	11/26/99	318	04220991	318	16	No	n/a
04220990	12/01/99	<225	n/a	n/a	n/a	No	n/a
04221000	11/26/99	236	04221091	236	0	No	n/a
				236	4	No	n/a
04221090	12/01/99	<225	n/a	n/a	n/a	No	n/a
04221100	11/26/99	236	04221191	236	8	No	n/a
				236	4	No	n/a
04221190	12/01/99	<225	n/a	n/a	n/a	No	n/a
04221200	11/26/99	223	n/a	n/a	n/a	No	n/a
04221290	12/01/99	<225	n/a	n/a	n/a	No	n/a
04221300	12/10/99	364	04221391	364	-16	No	n/a
				273	4	No	n/a
04221390	12/13/99	<225	n/a	n/a	n/a	No	n/a
04221400	12/10/99	321	04221491	321	12	No	n/a
				237	20	No	n/a
04221490	12/10/99	<225	n/a	n/a	n/a	No	n/a
04221500	12/10/99	470	04221591	470	-8	No	n/a
				343	4	No	n/a
				254	24	No	n/a
04221590	12/10/99	<225	n/a	n/a	n/a	No	n/a

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Final Scan Survey Number[1]	Scan Survey Date	Max. Result (dpm/100cm^2) [2]	Investigation Survey Number	Scan value >75% of EMC (dpm/100cm^2) [4]	Electra Investigation Result (dpm/100cm^2) [3]	Decon required (y/n)	Final Investigation Value (dpm/100cm^2) [3]
04221600	12/09/99	236	04221691	236	16	No	n/a
04221690	12/10/99	<225	n/a	n/a	n/a	No	n/a
04221700	12/09/99	218	n/a	n/a	n/a	No	n/a
04221790	12/10/99	<225	n/a	n/a	n/a	No	n/a
04221800	12/09/99	254	04221891	254	20	No	n/a
				248	16	No	n/a
04221890	12/10/99	<225	n/a	n/a	n/a	No	n/a
04221900	12/04/99	139	n/a	n/a	n/a	No	n/a
04222000	12/04/99	132	n/a	n/a	n/a	No	n/a
04222090	12/05/99	<225	n/a	n/a	n/a	No	n/a
04222100	12/09/99	353	04222193	353	0	No	n/a
04222192	12/10/99	<225	n/a	n/a	n/a	No	n/a
04222200	12/09/99	102	n/a	n/a	n/a	No	n/a
04222290	12/10/99	<225	n/a	n/a	n/a	No	n/a
04222300	12/09/99	182	n/a	n/a	n/a	No	n/a
04222390	12/10/99	<225	n/a	n/a	n/a	No	n/a
04222400	12/09/99	156	n/a	n/a	n/a	No	n/a
04222490	12/10/99	<225	n/a	n/a	n/a	No	n/a
04265100	12/04/99	176	n/a	n/a	n/a	No	n/a
04265800	11/28/99	236	04265891	236	4	No	n/a
04265890	11/30/99	<225	n/a	n/a	n/a	No	n/a
04265900	11/28/99	208	n/a	n/a	n/a	No	n/a
04265990	11/30/99	<225	n/a	n/a	n/a	No	n/a
04266000	11/28/99	213	n/a	n/a	n/a	No	n/a
04266090	11/30/99	<225	n/a	n/a	n/a	No	n/a
04266100	11/28/99	213	n/a	n/a	n/a	No	n/a
04266190	11/30/99	<225	n/a	n/a	n/a	No	n/a
04266200	11/28/99	425	04266291	425	4	No	n/a
				236	52	No	n/a
04266290	11/30/99	<225	n/a	n/a	n/a	No	n/a
04266900	12/04/99	251	04266990	251	8	No	n/a
04267000	12/04/99	193	n/a	n/a	n/a	No	n/a
04285100	11/29/99	298	04285190	284	36	No	n/a
				298	44	No	n/a
04285200	12/09/99	189	n/a	n/a	n/a	No	n/a
04285300	12/10/99	186	n/a	n/a	n/a	No	n/a

(1) The first six characters represent the survey subunit number The last two numbers represent the detector type
(2) NE Electra scan results are reported as < 225 dpm/100 cm^2 when no areas are flagged.
(3) One-square meter averages are verified as less than 75 dpm/100 cm^2 when individual measurements in excess of 100 dpm/100 cm^2 are present.
(4) In some cases, dedicated decon personnel worked in parallel with the Millennium Services survey technicians such that elevated areas were immediately decontaminated. For these cases, the follow-up Electra investigation value (refer to column 6) will reflect the post-decon radiological status of the area

Detailed scan survey instructions and results are on file in the Building 779 project files

Table A.16
Survey Unit 77944 Scan Data Summary

Final Scan Survey Number[1]	Scan Survey Date	Max. Result (dpm/100cm^2) [2]	Investigation Survey Number	Scan value >75% of EMC (dpm/100cm^2) [4]	Electra Investigation Result (dpm/100cm^2) [3]	Decon required (y/n)	Final Investigation Value (dpm/100cm^2) [3]
04400101	12/17/99	2909	04400191	271	76	No	n/a
				251	114	No	n/a
				264	116	No	n/a
				473	204	No	n/a
				254	44	No	n/a
				240	24	No	n/a
				2909	104	No	n/a
04400190	12/21/99	1386	n/a	280	n/a	Yes	<225
				1338	n/a	Yes	<225
				996	n/a	Yes	<225
				360	n/a	Yes	<225
				236	n/a	Yes	<225
				1386	n/a	Yes	<225
				268	n/a	Yes	<225
				440	n/a	Yes	<225
				436	n/a	Yes	<225
				360	n/a	Yes	<225
				240	n/a	Yes	<225
				1386	n/a	Yes	<225
				612	n/a	Yes	<225
				720	n/a	Yes	<225
				918	n/a	Yes	<225
				280	n/a	Yes	<225
				996	n/a	Yes	<225
				508	n/a	Yes	<225
				1338	n/a	Yes	<225
				678	n/a	Yes	<225
				888	n/a	Yes	<225
				280	n/a	Yes	<225
				236	n/a	Yes	<225
				636	n/a	Yes	<225
				636	n/a	Yes	<225
				324	n/a	Yes	<225
04400201	12/17/99	983	04400291	709	112	No	n/a
				240	32	No	n/a
				545	248	Yes	97
				983	1152	Yes	24
				291	160	No	n/a

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Final Scan Survey Number[1]	Scan Survey Date	Max. Result (dpm/100cm^2) [2]	Investigation Survey Number	Scan value >75% of EMC (dpm/100cm^2) [4]	Electra Investigation Result (dpm/100cm^2) [3]	Decon required (y/n)	Final Investigation Value (dpm/100cm^2) [3]
04400201	12/17/99	983	04400291	262	84	No	n/a
				255	32	No	n/a
				697	674	Yes	76
04400290	12/19/99	<225	n/a	n/a	n/a	No	n/a
04400301	12/17/99	727	04400391	227	24	No	n/a
				378	20	No	n/a
				229	65	No	n/a
				225	24	No	n/a
				255	16	No	n/a
				236	48	No	n/a
				618	72	No	n/a
				727	36	No	n/a
				275	60	No	n/a
				240	8	No	n/a
04400390	12/19/99	<225	n/a	n/a	n/a	No	n/a
04400404	12/18/99	2764	04400493	2764	2092	Yes	0
				425	32	No	n/a
				236	72	No	n/a
				471	532	Yes	48
				281	32	No	n/a
				378	372	Yes	72
				262	32	No	n/a
				327	16	No	n/a
				276	28	No	n/a
				284	68	No	n/a
04400492	12/20/99	272	n/a	272	n/a	Yes	16
04400501	12/14/99	327	04400591	251	68	No	n/a
				241	100	No	n/a
				291	25	No	n/a
				291	36	No	n/a
				324	8	No	n/a
				327	20	No	n/a
04400503	12/18/99	345	04400593	284	20	No	n/a
				345	36	No	n/a
				236	24	No	n/a
				259	26	No	n/a
				236	24	No	n/a
				236	8	No	n/a
				342	80	No	n/a
				314	12	No	n/a
				239	20	No	n/a
				284	24	No	n/a
				260	52	No	n/a
				236	20	No	n/a

Final Scan Survey Number[1]	Scan Survey Date	Max. Result (dpm/100cm^2) [2]	Investigation Survey Number	Scan value >75% of EMC (dpm/100cm^2) [4]	Electra Investigation Result (dpm/100cm^2) [3]	Decon required (y/n)	Final Investigation Value (dpm/100cm^2) [3]
04400503	12/18/99	345	04400593	236	4	No	n/a
				259	4	No	n/a
04400590	12/15/99	<225	n/a	n/a	n/a	No	n/a
04400592	12/19/99	<225	n/a	n/a	n/a	No	n/a
04400601	12/14/99	324	04400691	255	52	No	n/a
				324	8	No	n/a
				255	36	No	n/a
				246	24	No	n/a
				252	16	No	n/a
				291	24	No	n/a
04400690	12/14/99	<225	n/a	n/a	n/a	No	n/a
04400703	12/17/99	330	04400791	287	68	No	n/a
				330	44	No	n/a
04400790	12/16/99	<225	n/a	n/a	n/a	No	n/a
04400801	12/14/99	358	04400890	229	12	No	n/a
				240	44	No	n/a
				267	4	No	n/a
				358	12	No	n/a
				229	8	No	n/a
				255	48	No	n/a
04400803	12/18/99	331	04400891	284	28	No	n/a
				229	16	No	n/a
				237	8	No	n/a
				225	20	No	n/a
				226	-4	No	n/a
				236	52	No	n/a
				330	28	No	n/a
				284	36	No	n/a
				282	116	No	n/a
				331	20	No	n/a
				284	36	No	n/a
04400901	12/13/99	378	04400990	236	72	No	n/a
				236	40	No	n/a
				284	36	No	n/a
				378	124	No	n/a
				327	244	Yes	8
				284	20	No	n/a
				236	16	No	n/a
				236	36	No	n/a
				260	24	No	n/a
				284	24	No	n/a
				236	0	No	n/a
				240	24	No	n/a
04401002	12/13/99	291	04401090	276	12	No	n/a

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Final Scan Survey Number[1]	Scan Survey Date	Max. Result (dpm/100cm^2) [2]	Investigation Survey Number	Scan value >75% of EMC (dpm/100cm^2) [4]	Electra Investigation Result (dpm/100cm^2) [3]	Decon required (y/n)	Final Investigation Value (dpm/100cm^2) [3]
04401002	12/13/99	291	04401090	291	0	No	n/a
04401101	12/14/99	7964	04401191	7964	52	No	n/a
				764	20	No	n/a
				255	32	No	n/a
				255	8	No	n/a
04401103	12/18/99	822	04401194	236	12	No	n/a
				378	12	No	n/a
				236	16	No	n/a
				236	24	No	n/a
				555	252	Yes	32
				284	20	No	n/a
				822	36	No	n/a
				236	44	No	n/a
				236	12	No	n/a
				236	64	No	n/a
04401190	12/15/99	<225	n/a	n/a	n/a	No	n/a
04401193	12/19/99	<225	n/a	n/a	n/a	No	n/a
04401201	12/13/99	212	n/a	n/a	n/a	No	n/a
04401301	12/13/99	1676	04401390	524	412	Yes	8
				1676	1518	Yes	4
04420400	11/23/99	284	04420491	234	4	No	n/a
				236	48	No	n/a
				284	28	No	n/a
04420490	11/24/99	<225	n/a	n/a	n/a	No	n/a
04420500	11/23/99	321	04420591	284	16	No	n/a
				321	36	No	n/a
04420590	11/24/99	<225	n/a	n/a	n/a	No	n/a
04420600	11/23/99	266	04420691	266	148	No	n/a
04420690	11/24/99	<225	n/a	n/a	n/a	No	n/a
04420701	12/13/99	218	n/a	n/a	n/a	No	n/a
04420790	12/14/99	<225	n/a	n/a	n/a	No	n/a
04420801	12/13/99	290	04420891	290	88	No	n/a
				290	288	Yes	12
				236	100	No	n/a
04420901	12/13/99	181	n/a	n/a	n/a	No	n/a
04421201	12/13/99	181	n/a	n/a	n/a	No	n/a
04421290	12/14/99	<225	n/a	n/a	n/a	No	n/a
04421300	11/24/99	302	01421391	302	152	No	n/a
				284	16	No	n/a
04421301	12/13/99	364	04421393	253	64	No	n/a
				364	48	No	n/a
				236	36	No	n/a
				255	44	No	n/a
04421392	12/17/99	<225	n/a	n/a	n/a	No	n/a

Final Scan Survey Number[1]	Scan Survey Date	Max. Result (dpm/100cm^2) [2]	Investigation Survey Number	Scan value >75% of EMC (dpm/100cm^2) [4]	Electra Investigation Result (dpm/100cm^2) [3]	Decon required (y/n)	Final Investigation Value (dpm/100cm^2) [3]
04421490	12/16/99	420	n/a	304	n/a	Yes	68
				420	n/a	Yes	48
				316	n/a	Yes	12
				344	n/a	Yes	20
				344	n/a	Yes	68
				360	n/a	Yes	48
				360	n/a	Yes	40
				344	n/a	Yes	36
04421590	12/16/99	<225	n/a	n/a	n/a	No	n/a
04421600	11/24/99	189	n/a	n/a	n/a	No	n/a
04421690	12/17/99	404	n/a	404	n/a	Yes	44
04421700	11/23/99	189	n/a	n/a	n/a	No	n/a
04421701	12/13/99	195	n/a	n/a	n/a	No	n/a
04421790	11/26/99	<225	n/a	n/a	n/a	No	n/a
04421791	12/15/99	<225	n/a	n/a	n/a	No	n/a
04421801	12/13/99	189	n/a	n/a	n/a	No	n/a
04421990	12/06/99	<225	n/a	n/a	n/a	No	n/a
04422001	12/13/99	189	n/a	n/a	n/a	No	n/a
04465190	12/22/99	<225	n/a	n/a	n/a	No	n/a
04465290	12/22/99	<225	n/a	n/a	n/a	No	n/a
04465390	12/22/99	<225	n/a	n/a	n/a	No	n/a
04465400	11/23/99	331	04465491	331	144	No	n/a
				284	28	No	n/a
				331	88	No	n/a
04465490	11/26/99	<225	n/a	n/a	n/a	No	n/a
04465500	11/23/99	236	04465591	236	20	No	n/a
				236	24	No	n/a
				236	-4	No	n/a
				236	4	No	n/a
04465590	11/26/99	<225	n/a	n/a	n/a	No	n/a
04465600	11/23/99	327	04465691	327	28	No	n/a
04465690	11/26/99	<225	n/a	n/a	n/a	No	n/a
04465701	12/13/99	181	n/a	n/a	n/a	No	n/a
04465790	12/14/99	<225	n/a	n/a	n/a	No	n/a
04465800	11/23/99	402	04465890	230	16	No	n/a
				378	-12	No	n/a
				236	-12	No	n/a
				402	96	No	n/a
				256	36	No	n/a
04465801	12/13/99	218	n/a	n/a	n/a	No	n/a
04465901	12/13/99	309	04465990	287	20	No	n/a
				309	40	No	n/a
04466201	12/13/99	163	n/a	n/a	n/a	No	n/a
04466300	11/24/99	189	n/a	n/a	n/a	No	n/a

Final Scan Survey Number[1]	Scan Survey Date	Max. Result (dpm/100cm^2) [2]	Investigation Survey Number	Scan value >75% of EMC (dpm/100cm^2) [4]	Electra Investigation Result (dpm/100cm^2) [3]	Decon required (y/n)	Final Investigation Value (dpm/100cm^2) [3]
04466390	12/06/99	<225	n/a	n/a	n/a	No	n/a
04466490	12/06/99	<225	n/a	n/a	n/a	No	n/a
04466500	11/24/99	141	n/a	n/a	n/a	No	n/a
04466590	12/06/99	<225	n/a	n/a	n/a	No	n/a
04466600	11/24/99	214	n/a	n/a	n/a	No	n/a
04466690	12/06/99	<225	n/a	n/a	n/a	No	n/a
04485193	12/17/99	440	n/a	244	n/a	Yes	44
				352	n/a	Yes	12
				292	n/a	Yes	16
				264	n/a	Yes	36
				396	n/a	Yes	4
				252	n/a	Yes	24
				268	n/a	Yes	28
				440	n/a	Yes	24
04485194	12/17/99	472	n/a	232	12	No	n/a
				256	-18	No	n/a
				344	0	No	n/a
				296	22	No	n/a
				472	32	No	n/a
				344	0	No	n/a
				308	8	No	n/a
04485292	12/17/99	768	n/a	768	n/a	Yes	20
				380	n/a	Yes	28
04485293	12/17/99	432	n/a	432	n/a	Yes	8
				312	n/a	Yes	40
				360	n/a	Yes	4
04485392	12/18/99	702	n/a	440	n/a	Yes	28
				316	n/a	Yes	12
				522	n/a	Yes	12
				702	n/a	Yes	40
				416	n/a	Yes	40
				312	n/a	Yes	32
				618	n/a	Yes	60
04485393	12/18/99	356	n/a	304	n/a	Yes	48
				356	n/a	Yes	40
04485394	12/18/99	<225	n/a	n/a	n/a	No	n/a
04485395	12/18/99	1164	n/a	292	n/a	Yes	60
				1164	n/a	Yes	20
				484	n/a	Yes	48
				882	n/a	Yes	4
				396	n/a	Yes	40
				324	n/a	Yes	40
04485396	12/15/99	<225	n/a	n/a	n/a	No	n/a
04485590	12/23/99	<225	n/a	n/a	n/a	No	n/a

(1) The first six characters represent the survey subunit number The last two numbers represent the detector type
(2) NE Electra scan results are reported as < 225 dpm/100 cm^2 when no areas are flagged
(3) One-square meter averages are verified as less than 75 dpm/100 cm^2 when individual measurements in excess of 100 dpm/100 cm^2 are present
(4) In some cases, dedicated decon personnel worked in parallel with the Millennium Services survey technicians such that elevated areas were immediately decontaminated. For these cases, the follow-up Electra investigation value (refer to column 6) will reflect the post-decon radiological status of the area

Detailed scan survey instructions and results are on file in the Building 779 project files

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Table A.17
Survey Unit 77945 Scan Data Summary

Final Scan Survey Number[1]	Scan Survey Date	Max. Result (dpm/100cm^2) [2]	Investigation Survey Number	Scan value >75% of EMC (dpm/100cm^2) [4]	Electra Investigation Result (dpm/100cm^2) [3]	Decon required (y/n)	Final Investigation Value (dpm/100cm^2) [3]
04500101	12/17/99	291	04500190	236	16	No	n/a
				291	124	No	n/a
				236	44	No	n/a
				236	24	No	n/a
				276	76	No	n/a
				284	36	No	n/a
				255	60	No	n/a
				251	32	No	n/a
				225	16	No	n/a
04500201	12/13/99	283	04500290	236	24	No	n/a
				236	56	No	n/a
				229	20	No	n/a
				283	16	No	n/a
				236	28	No	n/a
				225	28	No	n/a
04500301	12/13/99	1054	04500390	228	12	No	n/a
				228	0	No	n/a
				250	12	No	n/a
				227	20	No	n/a
				1054	44	No	n/a
				250	20	No	n/a
				236	4	No	n/a
				254	0	No	n/a
04500401	12/13/99	378	04500490	232	20	No	n/a
				284	16	No	n/a
				233	48	No	n/a
				225	4	No	n/a
				250	212	No	n/a
				378	28	No	n/a
04520100	11/21/99	324	04520191	235	24	No	n/a
				324	176	No	n/a
04520101	12/17/99	255	04520193	251	36	No	n/a
				255	124	No	n/a
04520190	11/30/99	<225	n/a	n/a	n/a	No	n/a
04520192	12/17/99	<225	n/a	n/a	n/a	No	n/a
04565100	11/21/99	236	04565191	236	4	No	n/a
04565101	12/18/99	189	n/a	n/a	n/a	No	n/a
04565190	11/30/99	<225	n/a	n/a	n/a	No	n/a

Final Scan Survey Number[1]	Scan Survey Date	Max. Result (dpm/100cm^2) [2]	Investigation Survey Number	Scan value >75% of EMC (dpm/100cm^2) [4]	Electra Investigation Result (dpm/100cm^2) [3]	Decon required (y/n)	Final Investigation Value (dpm/100cm^2) [3]
04585190	11/27/99	<225	n/a	n/a	n/a	No	n/a
04585290	11/27/99	<225	n/a	n/a	n/a	No	n/a

(1) The first six characters represent the survey subunit number The last two numbers represent the detector type
(2) NE Electra scan results are reported as < 225 dpm/100 cm^2 when no areas are flagged.
(3) One-square meter averages are verified as less than 75 dpm/100 cm^2 when individual measurements in excess of 100 dpm/100 cm^2 are present
(4) In some cases, dedicated decon personnel worked in parallel with the Millennium Services survey technicians such that elevated areas were immediately decontaminated. For these cases, the follow-up Electra investigation value (refer to column 6) will reflect the post-decon radiological status of the area.

Detailed scan survey instructions and results are on file in the Building 779 project files

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Table A.18
Survey Unit 77946 Scan Data Summary

Final Scan Survey Number[1]	Scan Survey Date	Max. Result (dpm/100cm^2) [2]	Investigation Survey Number	Scan value >75% of EMC (dpm/100cm^2) [4]	Electra Investigation Result (dpm/100cm^2) [3]	Decon required (y/n)	Final Investigation Value (dpm/100cm^2) [3]
04600101	12/08/99	189	n/a	n/a	n/a	No	n/a
04600201	12/08/99	331	04600291	320	24	No	n/a
				236	40	No	n/a
				231	20	No	n/a
				236	8	No	n/a
				331	8	No	n/a
				236	32	No	n/a
				236	16	No	n/a
04600290	12/09/99	1044	n/a	1044	n/a	Yes	32
				340	n/a	Yes	4
				1014	n/a	Yes	16
04620100	11/21/99	305	04620191	284	44	No	n/a
				305	44	No	n/a
04620190	12/04/99	<225	n/a	n/a	n/a	No	n/a
04620200	11/21/99	236	04620291	225	28	No	n/a
				236	32	No	n/a
				235	52	No	n/a
04620290	11/24/99	<225	n/a	n/a	n/a	No	n/a
04620300	11/22/99	301	04620391	228	8	No	n/a
				261	92	No	n/a
				236	0	No	n/a
				301	8	No	n/a
04620390	11/24/99	<225	n/a	n/a	n/a	No	n/a
04620400	11/22/99	284	04620491	236	12	No	n/a
				236	8	No	n/a
				236	-12	No	n/a
				284	354	Yes	12
04620490	11/24/99	<225	n/a	n/a	n/a	No	n/a
04665100	11/22/99	293	04665191	293	0	No	n/a
				236	32	No	n/a
				236	48	No	n/a
04665190	12/04/99	<225	n/a	n/a	n/a	No	n/a
04665200	11/22/99	281	04665291	236	32	No	n/a
				281	32	No	n/a
				236	36	No	n/a
04665290	11/24/99	<225	n/a	n/a	n/a	No	n/a
04665300	11/22/99	284	04665391	235	20	No	n/a
				284	20	No	n/a

Final Scan Survey Number[1]	Scan Survey Date	Max. Result (dpm/100cm^2) [2]	Investigation Survey Number	Scan value >75% of EMC (dpm/100cm^2) [4]	Electra Investigation Result (dpm/100cm^2) [3]	Decon required (y/n)	Final Investigation Value (dpm/100cm^2) [3]
04665300	11/22/99	284	04665391	269	32	No	n/a
				236	-8	No	n/a
				282	20	No	n/a
04665390	11/24/99	<225	n/a	n/a	n/a	No	n/a
04665400	11/22/99	284	04665491	284	12	No	n/a
				229	12	No	n/a
04665490	11/24/99	<225	n/a	n/a	n/a	No	n/a
04685190	11/23/99	<225	n/a	n/a	n/a	No	n/a

(1) The first six characters represent the survey subunit number The last two numbers represent the detector type
(2) NE Electra scan results are reported as < 225 dpm/100 cm^2 when no areas are flagged.
(3) One-square meter averages are verified as less than 75 dpm/100 cm^2 when individual measurements in excess of 100 dpm/100 cm^2 are present.
(4) In some cases, dedicated decon personnel worked in parallel with the Millennium Services survey technicians such that elevated areas were immediately decontaminated. For these cases, the follow-up Electra investigation value (refer to column 6) will reflect the post-decon radiological status of the area.

Detailed scan survey instructions and results are on file in the Building 779 project files

Table A.19
Survey Unit 77947 Scan Data Summary

Final Scan Survey Number[1]	Scan Survey Date	Max. Result (dpm/100cm^2) [2]	Investigation Survey Number	Scan value >75% of EMC (dpm/100cm^2) [4]	Electra Investigation Result (dpm/100cm^2) [3]	Decon required (y/n)	Final Investigation Value (dpm/100cm^2) [3]
04700100	11/20/99	236	04700190	232	56	No	n/a
				236	8	No	n/a
				236	4	No	n/a
				230	20	No	n/a
				236	44	No	n/a
04700200	11/20/99	284	04700290	236	76	No	n/a
				236	24	No	n/a
				236	4	No	n/a
				284	12	No	n/a
				231	36	No	n/a
04700300	11/20/99	263	04700391	236	-4	No	n/a
				236	24	No	n/a
				263	32	No	n/a
				236	24	No	n/a
				236	24	No	n/a
				229	16	No	n/a
				236	4	No	n/a
				236	8	No	n/a
				236	20	No	n/a
				236	48	No	n/a
04700390	11/21/99	<225	n/a	n/a	n/a	No	n/a
04700400	11/20/99	236	04700491	236	20	No	n/a
				230	36	No	n/a
				236	48	No	n/a
04700490	11/21/99	<225	n/a	n/a	n/a	No	n/a
04700500	11/20/99	244	04700590	236	8	No	n/a
				230	-4	No	n/a
				236	28	No	n/a
				244	472	Yes	12
				234	32	No	n/a
				236	60	No	n/a
				236	68	No	n/a
				236	28	No	n/a
04700600	11/20/99	615	04700690	233	24	No	n/a
				236	8	No	n/a
				283	20	No	n/a
				236	8	No	n/a
				236	36	No	n/a

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Final Scan Survey Number[1]	Scan Survey Date	Max. Result (dpm/100cm^2) [2]	Investigation Survey Number	Scan value >75% of EMC (dpm/100cm^2) [4]	Electra Investigation Result (dpm/100cm^2) [3]	Decon required (y/n)	Final Investigation Value (dpm/100cm^2) [3]
04700600	11/20/99	615	04700690	284	44	No	n/a
				236	24	No	n/a
				284	28	No	n/a
				260	20	No	n/a
				236	-4	No	n/a
				236	20	No	n/a
				615	352	Yes	12
				236	44	No	n/a
04700700	11/20/99	189	n/a	n/a	n/a	No	n/a
04700800	11/20/99	519	04700890	236	20	No	n/a
				236	0	No	n/a
				519	12	No	n/a
04720100	11/20/99	189	n/a	n/a	n/a	No	n/a
04720190	11/21/99	<225	n/a	n/a	n/a	No	n/a
04720200	11/20/99	233	04720291	233	8	No	n/a
04720290	11/21/99	<225	n/a	n/a	n/a	No	n/a
04720300	11/20/99	189	n/a	n/a	n/a	No	n/a
04720400	11/20/99	236	04720491	236	44	No	n/a
				236	12	No	n/a
				236	20	No	n/a
04720490	11/21/99	<225	n/a	n/a	n/a	No	n/a
04720500	11/20/99	3782	04720591	284	60	No	n/a
				3782	1518	Yes	4
				226	32	No	n/a
04720590	11/21/99	<225	n/a	n/a	n/a	No	n/a
04720600	11/20/99	189	n/a	n/a	n/a	No	n/a
04720690	11/21/99	<225	n/a	n/a	n/a	No	n/a
04720700	11/20/99	378	04720791	378	260	Yes	36
04720790	11/21/99	<225	n/a	n/a	n/a	No	n/a
04765100	11/21/99	283	04765191	236	24	No	n/a
				280	32	No	n/a
				283	16	No	n/a
				255	4	No	n/a
04765190	12/04/99	n/a	n/a	n/a	n/a	No	n/a
04765200	11/30/99	236	04765291	236	8	No	n/a
				236	-16	No	n/a
04765290	11/30/99	<225	n/a	n/a	n/a	No	n/a
04765300	11/21/99	189	n/a	n/a	n/a	No	n/a
04765400	11/21/99	284	04765491	236	4	No	n/a
				231	20	No	n/a
				284	0	No	n/a
				284	20	No	n/a
				236	0	No	n/a
04765490	11/21/99	<225	n/a	n/a	n/a	No	n/a

Final Scan Survey Number[1]	Scan Survey Date	Max. Result (dpm/100cm^2) [2]	Investigation Survey Number	Scan value >75% of EMC (dpm/100cm^2) [4]	Electra Investigation Result (dpm/100cm^2) [3]	Decon required (y/n)	Final Investigation Value (dpm/100cm^2) [3]
04765500	11/21/99	3025	04765591	236	28	No	n/a
				3025	4	No	n/a
				236	8	No	n/a
				236	20	No	n/a
				236	44	No	n/a
04765590	11/24/99	<225	n/a	n/a	n/a	No	n/a
04765600	11/29/99	281	04765691	281	32	No	n/a
04765690	12/13/99	<225	n/a	n/a	n/a	No	n/a
04765700	11/29/99	181	n/a	n/a	n/a	No	n/a
04765790	12/02/99	<225	n/a	n/a	n/a	No	n/a
04785190	11/26/99	<225	n/a	n/a	n/a	No	n/a
04785290	11/24/99	<225	n/a	n/a	n/a	No	n/a

(1) The first six characters represent the survey submit number The last two numbers represent the detector type
(2) NE Electra scan results are reported as < 225 dpm/100 cm^2 when no areas are flagged.
(3) One-square meter averages are verified as less than 75 dpm/100 cm^2 when individual measurements in excess of 100 dpm/100 cm^2 are present.
(4) In some cases, dedicated decon personnel worked in parallel with the Millennium Services survey technicians such that elevated areas were immediately decontaminated. For these cases, the follow-up Electra investigation value (refer to column 6) will reflect the post-decon radiological status of the area.

Detailed scan survey instructions and results are on file in the Building 779 project files

Table A.20
Survey Unit 77948 Scan Data Summary

Final Scan Survey Number[1]	Scan Survey Date	Max Result (dpm/100cm^2) [2]	Investigation Survey Number	Scan value >75% of EMC (dpm/100cm^2) [4]	Electra Investigation Result (dpm/100cm^2) [3]	Decon required (y/n)	Final Investigation Value (dpm/100cm^2) [3]
04800190	11/20/99	29583	n/a	300	n/a	Yes	<225
				13218	n/a	Yes	<225
				5400	n/a	Yes	<225
				240	n/a	Yes	<225
				2338	n/a	Yes	<225
				2733	n/a	Yes	<225
				3510	n/a	Yes	<225
				10188	n/a	Yes	<225
				3720	n/a	Yes	<225
				6657	n/a	Yes	<225
				4902	n/a	Yes	<225
				29583	n/a	Yes	<225
				8445	n/a	Yes	<225
				23472	n/a	Yes	<225
				3000	n/a	Yes	<225
				8931	n/a	Yes	<225
				300	n/a	Yes	<225
				8736	n/a	Yes	<225
				750	n/a	Yes	<225
				2478	n/a	Yes	<225
				240	n/a	Yes	<225
				1200	n/a	Yes	<225
				400	n/a	Yes	<225
				300	n/a	Yes	Was grouted
				270	n/a	Yes	<225
				1080	n/a	Yes	<225
				270	n/a	Yes	<225
				1398	n/a	Yes	<225
				6438	n/a	Yes	<225
				2760	n/a	Yes	<225
				4440	n/a	Yes	<225
				2640	n/a	Yes	<225
04800202	12/19/99	324	04800290	240	40	No	n/a
				324	32	No	n/a
				236	20	No	n/a
				255	44	No	n/a
04800300	12/20/99	671	04800391	247	52	No	n/a
				255	52	No	n/a

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Final Scan Survey Number[1]	Scan Survey Date	Max. Result (dpm/100cm^2) [2]	Investigation Survey Number	Scan value >75% of EMC (dpm/100cm^2) [4]	Electra Investigation Result (dpm/100cm^2) [3]	Decon required (y/n)	Final Investigation Value (dpm/100cm^2) [3]
04800300	12/20/99	671	04800391	293	36	No	n/a
				331	52	No	n/a
				226	4	No	n/a
				236	12	No	n/a
				671	288	Yes	36
04800390	12/21/99	<225	n/a	n/a	n/a	No	n/a
04800400	12/20/99	1439	04800491	236	32	No	n/a
				690	8	No	n/a
				436	184	No	n/a
				1439	628	Yes	28
				225	20	No	n/a
				236	8	No	n/a
				800	4	No	n/a
				256	36	No	n/a
				690	8	No	n/a
04800490	12/23/99	461	n/a	228	n/a	Yes	<225
				263	n/a	Yes	<225
				366	n/a	Yes	<225
				461	n/a	Yes	<225
				245	n/a	Yes	<225
				316	n/a	Yes	<225
				240	n/a	Yes	<225
				268	n/a	Yes	<225
				288	n/a	Yes	<225
				248	n/a	Yes	<225
				317	n/a	Yes	<225
				248	n/a	Yes	<225
04800500	12/15/99	392	04800591	392	160	No	n/a
				276	196	No	n/a
				273	44	No	n/a
				327	156	No	n/a
				230	24	No	n/a
04800600	12/16/99	291	04800691	278	4	No	n/a
				273	24	No	n/a
				291	36	No	n/a
04800690	12/17/99	<225	n/a	n/a	n/a	No	n/a
04800700	12/15/99	223	n/a	n/a	n/a	No	n/a
04800790	12/16/99	<225	n/a	n/a	n/a	No	n/a
04800800	12/15/99	181	n/a	n/a	n/a	No	n/a
04800890	12/16/99	<225	n/a	n/a	n/a	No	n/a
04800900	12/15/99	218	n/a	n/a	n/a	No	n/a
04800990	12/16/99	<225	n/a	n/a	n/a	No	n/a
04801000	12/15/99	564	04801091	564	40	No	n/a
04801090	12/16/99	<225	n/a	n/a	n/a	No	n/a

Final Scan Survey Number[1]	Scan Survey Date	Max Result (dpm/100cm^2) [2]	Investigation Survey Number	Scan value >75% of EMC (dpm/100cm^2) [4]	Electra Investigation Result (dpm/100cm^2) [3]	Decon required (y/n)	Final Investigation Value (dpm/100cm^2) [3]
04801101	12/15/99	189	n/a	n/a	n/a	No	n/a
04801201	12/15/99	181	n/a	n/a	n/a	No	n/a
04801290	12/16/99	<225	n/a	n/a	n/a	No	n/a
04801300	12/19/99	764	04801391	255	304	Yes	168
				764	280	Yes	32
				254	28	No	n/a
				284	n/a	No	n/a
				545	392	Yes	12
04801390	12/21/99	<225	n/a	n/a	n/a	No	n/a
04801400	12/18/99	429	04801491	308	12	No	n/a
				287	68	No	n/a
				429	296	Yes	8
04801490	12/21/99	<225	n/a	n/a	n/a	No	n/a
04801500	12/18/99	927	04801590	490	40	No	n/a
				400	44	No	n/a
				284	20	No	n/a
				377	276	No	n/a
				236	40	No	n/a
				309	24	No	n/a
				291	92	No	n/a
				927	20	No	n/a
				655	36	No	n/a
				387	40	No	n/a
04801600	12/19/99	327	04801691	291	16	No	n/a
				236	0	No	n/a
				327	0	No	n/a
				284	16	No	n/a
04801690	12/21/99	<225	n/a	n/a	n/a	No	n/a
04801700	12/19/99	1909	04801791	226	8	No	n/a
				691	8	No	n/a
				240	4	No	n/a
				1909	670	Yes	44
				255	12	No	n/a
04801790	12/21/99	<225	n/a	n/a	n/a	No	n/a
04801800	12/18/99	14509	04801891	14509	112	No	n/a
				309	60	No	n/a
				524	76	No	n/a
				278	64	No	n/a
				545	24	No	n/a
04801900	12/19/99	291	04801991	245	12	No	n/a
				248	0	No	n/a
				248	12	No	n/a
				291	36	No	n/a
04801990	12/21/99	<225	n/a	n/a	n/a	No	n/a

Final Scan Survey Number[1]	Scan Survey Date	Max. Result (dpm/100cm^2) [2]	Investigation Survey Number	Scan value >75% of EMC (dpm/100cm^2) [4]	Electra Investigation Result (dpm/100cm^2) [3]	Decon required (y/n)	Final Investigation Value (dpm/100cm^2) [3]
04802000	12/19/99	455	04802091	455	284	Yes	36
				240	12	No	n/a
				232	12	No	n/a
04802090	12/21/99	<225	n/a	n/a	n/a	No	n/a
04802100	12/19/99	327	04802191	262	48	No	n/a
				251	24	No	n/a
				255	164	No	n/a
				255	116	No	n/a
				327	148	No	n/a
				240	16	No	n/a
04802190	12/21/99	<225	n/a	n/a	n/a	No	n/a
04802200	12/17/99	284	04802290	236	16	No	n/a
				284	4	No	n/a
04802300	12/19/99	400	04802392	400	16	No	n/a
				232	12	No	n/a
				233	20	No	n/a
04802301	12/19/99	218	n/a	n/a	n/a	No	n/a
04802390	12/20/99	<225	n/a	n/a	n/a	No	n/a
04802391	12/21/99	<225	n/a	n/a	n/a	No	n/a
04802400	12/20/99	202	n/a	n/a	n/a	No	n/a
04802490	12/21/99	<225	n/a	n/a	n/a	No	n/a
04802500	12/20/99	218	n/a	n/a	n/a	No	n/a
04802590	12/24/99	602	n/a	492	n/a	Yes	Curb removed
				268	n/a	Yes	Curb removed
				260	n/a	Yes	Curb removed
				602	n/a	Yes	Curb removed
				396	n/a	Yes	Curb removed
				352	n/a	Yes	Curb removed
04802600	12/21/99	509	04802691	509	24	No	n/a
04802690	12/22/99	<225	n/a	n/a	n/a	No	n/a
04802692	12/23/99	<225	n/a	n/a	n/a	No	n/a
04802790	12/24/99	<225	n/a	n/a	n/a	No	n/a
04802890	12/24/99	<225	n/a	n/a	n/a	No	n/a
04802990	12/24/99	<225	n/a	n/a	n/a	No	n/a
04802991	12/24/99	<225	n/a	n/a	n/a	No	n/a
04803090	12/24/99	<225	n/a	n/a	n/a	No	n/a
04803100	12/20/99	311	04803191	225	24	No	n/a
				311	8	No	n/a
				291	36	No	n/a
04803190	12/23/99	<225	n/a	n/a	n/a	No	n/a
04803290	12/23/99	<225	n/a	n/a	n/a	No	n/a
04803390	12/25/99	<225	n/a	n/a	n/a	No	n/a
04803400	12/20/99	207	n/a	n/a	n/a	No	n/a
04803490	12/23/99	<225	n/a	n/a	n/a	No	n/a

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Final Scan Survey Number[1]	Scan Survey Date	Max. Result (dpm/100cm^2) [2]	Investigation Survey Number	Scan value >75% of EMC (dpm/100cm^2) [4]	Electra Investigation Result (dpm/100cm^2) [3]	Decon required (y/n)	Final Investigation Value (dpm/100cm^2) [3]
04803590	12/24/99	564	n/a	564	n/a	Yes	24
04803690	12/24/99	<225	n/a	n/a	n/a	No	n/a

(1) The first six characters represent the survey subunit number The last two numbers represent the detector type
(2) NE Electra scan results are reported as < 225 dpm/100 cm^2 when no areas are flagged.
(3) One-square meter averages are verified as less than 75 dpm/100 cm^2 when individual measurements in excess of 100 dpm/100 cm^2 are present
(4) In some cases, dedicated decon personnel worked in parallel with the Millennium Services survey technicians such that elevated areas were immediately decontaminated. For these cases, the follow-up Electra investigation value (refer to column 6) will reflect the post-decon radiological status of the area.

Detailed scan survey instructions and results are on file in the Building 779 project files

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Table A.21
Survey Unit 77950 Scan Data Summary

Final Scan Survey Number[1]	Scan Survey Date	Max. Result (dpm/100cm^2) [2]	Investigation Survey Number	Scan value >75% of EMC (dpm/100cm^2) [4]	Electra Investigation Result (dpm/100cm^2) [3]	Decon required (y/n)	Final Investigation Value (dpm/100cm^2) [3]
05000190	12/15/99	<225	n/a	n/a	n/a	No	n/a
05000701	12/07/99	378	03900792	229	24	No	n/a
				378	16	No	n/a
				236	60	No	n/a
				236	24	No	n/a
				284	8	No	n/a
05000790	12/09/99	<225	n/a	n/a	n/a	No	n/a
05000801	12/07/99	509	05000891	255	64	No	n/a
				262	296	Yes	52
				466	328	Yes	12
				255	52	No	n/a
				400	72	No	n/a
				236	20	No	n/a
				509	304	Yes	32
				327	88	No	n/a
				256	88	No	n/a
05000890	12/09/99	798	n/a	n/a	798	Yes	48
05000901	12/07/99	319	03900990	319	72	No	n/a
				255	44	No	n/a
05001001	12/07/99	527	05001091	304	36	No	n/a
				527	20	No	n/a
05001090	12/09/99	<225	n/a	n/a	n/a	No	n/a
05001102	12/07/99	254	05001191	254	24	No	n/a
05001190	12/08/99	<225	n/a	n/a	n/a	No	n/a
05001201	12/07/99	236	05001291	236	8	No	n/a
				236	16	No	n/a
05001290	12/09/99	<225	n/a	n/a	n/a	No	n/a
05001301	12/07/99	283	05001391	283	148	No	n/a
				254	28	No	n/a
05001390	12/09/99	<225	n/a	n/a	n/a	No	n/a
05001402	12/07/99	218	n/a	n/a	n/a	No	n/a

(1) The first six characters represent the survey submit number The last two numbers represent the detector type
(2) NE Electra scan results are reported as < 225 dpm/100 cm^2 when no areas are flagged.
(3) One-square meter averages are verified as less than 75 dpm/100 cm^2 when individual measurements in excess of 100 dpm/100 cm^2 are present
(4) In some cases, dedicated decon personnel worked in parallel with the Millennium Services survey technicians such that elevated areas were immediately decontaminated. For these cases, the follow-up Electra investigation value (refer to column 6) will reflect the post-decon radiological status of the area

Detailed scan survey instructions and results are on file in the Building 779 project files

ATTACHMENT B

Survey Unit 77905 Data Summary

SURVEY UNIT 77905 DATA

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Survey Unit 77905 Data Summary

Total Surface Activity Measurements

	21	29	
	Number Required	Number Obtained	
MIN	-5 4		dpm/100 cm^2
MAX	32 1		dpm/100 cm^2
MEAN	8 2		dpm/100 cm^2
STD DEV	7 6		dpm/100 cm^2
TRANSURANIC DCGL$_W$	100		dpm/100 cm^2

Removable Activity Measurements

	21	29	
	Number Required	Number Obtained	
MIN	-0 6		dpm/100 cm^2
MAX	5 4		dpm/100 cm^2
MEAN	1 1		dpm/100 cm^2
STD DEV	1 4		dpm/100 cm^2
TRANSURANIC DCGL$_W$	20		dpm/100 cm^2

Media Sample Activity

Media Samples	21	21
	Number Required	Number Obtained

Total Uranium Results

MIN	27 9	dpm/100 cm^2
MAX	640 0	dpm/100 cm^2
MEAN	213 1	dpm/100 cm^2
STD DEV	145 4	dpm/100 cm^2
DCGL$_W$	5000	dpm/100 cm^2

Total Transuranic Results

MIN	-0 4	dpm/100 cm^2
MAX	70 3	dpm/100 cm^2
MEAN	13 6	dpm/100 cm^2
STD DEV	18 7	dpm/100 cm^2
DCGL$_W$	100	dpm/100 cm^2

Survey Unit 77905 Building 779 Total Surface Contamination Results

Total Surface Activity Survey						Quality Control Survey				
Meter Model	NE Electra w/ DP6 Probe			Local Area Bkgd (cpm)		NE Electra w/ DP6 Probe			Local Area Bkgd (cpm)	
Instrument #	2358	1274	N/A	2 0		2358	N/A	N/A	3 0	
Cal. Due Date	1/19/00	10/27/99	N/A			1/19/00	N/A	N/A		
Efficiency (c/d)	0.220	0 203	N/A			0.220	N/A	N/A		
	Total Surface Activity Measurements					Quality Control Measurements				
Sample Location Number	Serial #	Date	(cpm)	MDA (dpm/100 cm²)	(dpm/100 cm²)	Serial #	Date	(cpm)	MDA (dpm/100 cm²)	(dpm/100 cm²)
1	2358	07/22/99	4 5	33	11.4					
2	2358	07/22/99	5 8	33	17.3					
3	2358	07/22/99	3 1	33	5 0					
4	2358	07/22/99	2 7	33	3.2					
5	2358	07/22/99	3 1	33	5 0					
6	2358	07/22/99	4 5	33	11.4					
7	2358	07/22/99	2 7	33	3.2					
8	2358	07/22/99	4 5	33	11.4					
9	2358	07/22/99	3 1	33	5 0					
10	2358	07/22/99	4 1	33	9 6					
11	2358	07/22/99	4 1	33	9 6					
12	2358	07/22/99	5 8	33	17 3					
13	2358	07/22/99	4 0	33	9 1					
14	2358	07/22/99	2 7	33	3.2					
15	2358	07/22/99	2 7	33	3.2					
16	2358	07/22/99	4 5	33	11.4					
17	2358	07/22/99	3 1	33	5 0					
18	2358	07/22/99	5 3	33	16 0					
19	1274	07/19/99	4 0	35	9.9					
20	1274	07/19/99	0 9	35	-5.4					
21	1274	07/19/99	1 3	35	-3.5					
22	1274	07/19/99	3 1	35	5.4					
23	1274	07/19/99	1 3	35	-3.5					
24	1274	07/19/99	2 7	35	3.5					
25	1274	07/19/99	5 3	35	16.3	2358	07/22/99	5	38	8
26	1274	07/19/99	4 5	35	12.3	2358	07/22/99	8	38	23
27	1274	07/19/99	2 2	35	1.0					
28	1274	07/19/99	8 5	35	32.1					
29	1274	07/19/99	4 9	35	14.3					
				MIN	-5 4					
				MAX	32 1					
				MEAN	8.2					
				SD	7 6					
				Transuranic $DCGL_W$	100					

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Survey Unit 77905 Building 779 Smear Results

Smear Location Number	Smear Results				
	Serial Number	Date Counted	Gross (cpm)	(dpm/100 cm^2)	MDA
1	1072	7/20/99	0 5	0 9	7 5
2	1072	7/20/99	0 5	0 9	7 5
3	1072	7/20/99	1 5	3 9	7 5
4	1072	7/20/99	0 5	0.9	7 5
5	1072	7/20/99	1 5	3 9	7 5
6	1072	7/20/99	0 5	0.9	7 5
7	1072	7/20/99	0 0	-0.6	7 5
8	1072	7/20/99	0 5	0 9	7 5
9	1072	7/20/99	0 5	0.9	7 5
10	1072	7/20/99	0 5	0 9	7 5
11	1072	7/20/99	0 5	0 9	7 5
12	1072	7/20/99	0 5	0 9	7 5
13	1072	7/20/99	0 0	-0 6	7 5
14	1072	7/20/99	0 0	-0 6	7 5
15	1072	7/20/99	0 0	-0 6	7 5
16	1072	7/20/99	0 0	-0 6	7 5
17	1072	7/20/99	0 5	0.9	7 5
18	1072	7/20/99	2 0	5 4	7 5
19	1354	7/24/99	1 0	2 4	7 5
20	1354	7/24/99	0 5	0 9	7 5
21	1354	7/24/99	0 5	0.9	7 5
22	1354	7/24/99	0 5	0 9	7 5
23	1354	7/24/99	1 0	2.4	7 5
24	1354	7/24/99	0 5	0.9	7 5
25	1354	7/24/99	0 0	-0.6	7 5
26	1354	7/24/99	0 5	0 9	7 5
27	1354	7/24/99	0 5	0 9	7 5
28	1354	7/24/99	1 0	2 4	7 5
29	1354	7/24/99	0 5	0 9	7 5
			MIN	-0 6	
			MAX	5 4	
			MEAN	1 1	
			SD	1 4	
			Transuranic $DCGL_W$	20	

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Survey Unit 77905 Building 779 Paint/Solid Media Sample Results

LOCATION DESCRIPTION	SAMPLE LOCATION NUMBER	SITE SAMPLE ID	NUCLIDE	pCi/g	MDA (pCi/g)	WEIGHT (g)	SURFACE AREA (in^2)	INDIVIDUAL NUCLIDE ($dpm/100cm^2$)	ESTIMATED MDA ($dpm/100cm^2$)	URANIUM TOTAL ($dpm/100cm^2$) $DCGL_W$=5000	TRANSURANIC TOTAL ($dpm/100cm^2$) $DCGL_W$=100
Main Bldg Roof	1	001 002	U-233/234	0 318	0 034	179 43	40	49 1	5 2		
			U-235	0 031	0 043			4 8	6 6		
			U-238	0 279	0 034			43 1	5 2	96 9	
			Pu-239/240	0 000	0 044			0 0	6 8		
			Am-241	0 087	0 047			13 4	7 3		13 4
Main Bldg Roof	2	002 002	U-233/234	0 503	0 033	834 04	40	360 9	23 7		
			U-235	0 015	0 041			10 8	29 4		
			U-238	0 374	0 059			268 3	42 3	640 0	
			Pu-239/240	0 018	0 050			12 9	35 9		
			Am-241	0 000	0 047			0 0	33 7		12 9
Main Bldg Roof	3	003 002	U-233/234	0 420	0 032	297 21	40	107 4	8 2		
			U-235	0 058	0 039			14 8	10 0		
			U-238	0 372	0 031			95 1	7 9	217 3	
			Pu-239/240	0 000	0 058			0 0	14 8		
			Am-241	0 023	0 063			5 9	16 1		5 9
Main Bldg Roof	4	004 002	U-233/234	0 435	0 036	317 72	40	118 9	9 8		
			U-235	0 049	0 044			13 4	12 0		
			U-238	0 611	0 063			167 0	17 2	299 3	
			Pu-239/240	0 035	0 047			9 6	12 8		
			Am-241	0 010	0 079			2 7	21 6		12 3
Main Bldg Roof	5	005 002	U-233/234	0 370	0 039	502 40	40	159 9	16 9		
			U-235	0 018	0 048			7 8	20 7		
			U-238	0 348	0 068			150 4	29 4	318 1	
			Pu-239/240	0 045	0 040			19 4	17 3		
			Am-241	0 083	0 045			35 9	19 4		55 3
Main Bldg Roof	6	006 002	U-233/234	0 584	0 070	397 70	40	199 8	23 9		
			U-235	0 046	0 041			15 7	14 0		
			U-238	0 580	0 033			198 4	11 3	414 0	
			Pu-239/240	0 016	0 044			5 5	15 1		
			Am-241	0 040	0 054			13 7	18 5		19 2
Main Bldg Roof	7	007 002	U-233/234	0 295	0 036	189 31	40	48 0	5 9		
			U-235	0 017	0 045			2 8	7 3		
			U-238	0 248	0 064			40 4	10 4	91 2	
			Pu-239/240	0 000	0 042			0 0	6 8		
			Am-241	0 034	0 046			5 5	7 5		5.5
Main Bldg Roof	8	008 002	U-233/234	0 331	0 074	623 40	40	177 5	39 7		
			U-235	0 081	0 044			43 4	23 6		
			U-238	0 340	0 035			182 3	18 8	403 3	
			Pu-239/240	0 015	0 040			8 0	21 5		
			Am-241	0 054	0 049			29 0	26 3		37 0

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Survey Unit 77905 Building 779 Paint/Solid Media Sample Results

LOCATION DESCRIPTION	SAMPLE LOCATION NUMBER	SITE SAMPLE ID	NUCLIDE	pCi/g	MDA (pCi/g)	WEIGHT (g)	SURFACE AREA (in^2)	INDIVIDUAL NUCLIDE ($dpm/100cm^2$)	ESTIMATED MDA ($dpm/100cm^2$)	URANIUM TOTAL ($dpm/100cm^2$) $DCGL_W$=5000	TRANSURANIC TOTAL ($dpm/100cm^2$) $DCGL_W$=100
Main Bldg Roof	9	009 002	U-233/234	0 124	0 069	325 73	40	34 7	19 3		
			U-235	0 015	0 041			4 2	11 5		
			U-238	0 278	0 033			77 9	9 2	116 8	
			Pu-239/240	-0 013	0 090			-3 6	25 2		
			Am-241	0 054	0 049			15 1	13 7		11 5
Main Bldg Roof	10	010 002	U-233/234	0 352	0 048	404 70	40	122 5	16 7		
			U-235	0 043	0 059			15 0	20 5		
			U-238	0 385	0 047			134 0	16 4	271.5	
			Pu-239/240	0 183	0 083			63 7	28 9		
			Am-241	0 019	0 053			6 6	18 5		70 3
Main Bldg Roof	11	011 002	U-233/234	0 371	0 072	318 66	40	101 7	19 7		
			U-235	0 037	0 050			10 1	13 7		
			U-238	0 475	0 072			130 2	19 7	242 1	
			Pu-239/240	0 036	0 049			9 9	13 4		
			Am-241	0 034	0 047			9 3	12 9		19 2
Main Bldg Roof	12	012 002	U-233/234	0 395	0 037	323 61	40	110 0	10 3		
			U-235	0 000	0 045			0 0	12 5		
			U-238	0 360	0 065			100 2	18 1	210 2	
			Pu-239/240	0 019	0 052			5 3	14 5		
			Am-241	0 000	0 061			0 0	17 0		5 3
Main Bldg Roof	13	013 002	U-233/234	0 254	0 083	171 60	40	37 5	12 3		
			U-235	0 018	0 049			2 7	7 2		
			U-238	0 206	0 040			30 4	5 9	70 6	
			Pu-239/240	0 018	0 048			2 7	7 1		
			Am-241	0 000	0 041			0 0	6 1		2 7
Main Bldg Roof	14	014 002	U-233/234	0 190	0 081	201 64	40	33 0	14 1		
			U-235	0 036	0 048			6 2	8 3		
			U-238	0 488	0 039			84 6	6 8	123 9	
			Pu-239/240	0 000	0 048			0 0	8 3		
			Am-241	0 000	0 050			0 0	8 7		0 0
Main Bldg Roof	15	015 002	U-233/234	0 494	0 038	241 23	40	102 5	7 9		
			U-235	0 017	0 047			3 5	9 8		
			U-238	0 576	0 038			119 5	7 9	225.6	
			Pu-239/240	0 000	0 052			0 0	10 8		
			Am-241	0 017	0 045			3 5	9 3		3.5
Duct Bridge Roof	16	016 002	U-233/234	0 345	0 067	364 09	40	108 1	21 0		
			U-235	0 035	0 047			11 0	14 7		
			U-238	0 238	0 038			74 5	11 9	193.6	
			Pu-239/240	0 017	0 047			5 3	14 7		
			Am-241	-0 007	0 082			-2 2	25 7		3 1

Survey Unit 77905 Building 779 Paint/Solid Media Sample Results

LOCATION DESCRIPTION	SAMPLE LOCATION NUMBER	SITE SAMPLE ID	NUCLIDE	pCi/g	MDA (pCi/g)	WEIGHT (g)	SURFACE AREA (In²)	INDIVIDUAL NUCLIDE (dpm/100cm²)	ESTIMATED MDA (dpm/100cm²)	URANIUM TOTAL (dpm/100cm²) *DCGL $_W$=5000*	TRANSURANIC TOTAL (dpm/100cm²) *DCGL $_W$=100*
Main Bldg Roof	17	017 002	U-233/234	0 533	0 068	247 73	40	113 6	14 5		
			U-235	0 000	0 047			0 0	10 0		
			U-238	0 432	0 068			92 1	14 5	205 7	
			Pu-239/240	-0 008	0 092			-1 7	19 6		
			Am-241	0 034	0 046			7 2	9 8		5 5
Main Bldg Roof	18	018 002	U-233/234	0 192	0 068	196 85	40	32 5	11 5		
			U-235	0 052	0 047			8 8	8 0		
			U-238	0 239	0 038			40 5	6 4	81 8	
			Pu-239/240	0 000	0 043			0 0	7 3		
			Am-241	0 015	0 042			2 5	7 1		2 5
Main Bldg South Wall Exterior	19	019 002	U-233/234	0 394	0 041	36 53	40	12 4	1 3		
			U-235	0 019	0 051			0 6	1 6		
			U-238	0 476	0 072			15 0	2 3	27 9	
			Pu-239/240	0 029	0 040			0 9	1 3		
			Am-241	0 000	0 075			0 0	2 4		0 9
Main Bldg South Wall Exterior	20	020 002	U-233/234	0 576	0 063	69 08	40	34 2	3 7		
			U-235	0 049	0 044			2 9	2 6		
			U-238	0 628	0 063			37 3	3 7	74 5	
			Pu-239/240	-0 007	0 078			-0 4	4 6		
			Am-241	0 000	0 050			0 0	3 0		-0 4
Main Bldg South Wall Exterior	21	021 002	U-233/234	1 340	0 082	76 66	40	88 4	5 4		
			U-235	0 075	0 102			4 9	6 7		
			U-238	0 864	0 145			57 0	9 6	150 3	
			Pu-239/240	0 000	0 044			0 0	2 9		
			Am-241	0 000	0 052			0 0	3 4		0 0
									MIN	27 9	-0 4
									MAX	640 0	70 3
									MEAN	213 1	13 6
									SD	145 4	18 7
									$DCGL_W$ =	5000	100

Survey Unit 77905 Building 779 Sample Weight Data Sheet

RIN NUMBER 99A8945			RIN NUMBER 99A8945			SUM (*)
Sample Location Number	Event	Rad Screening Weight, grams	Sample Location Number	Event	Isotopic Analysis Weight, grams	Total Weight, grams
1	001 001	1 0277	1	001 002	178 40	179 43
2	002 001	1 0399	2	002 002	833 00	834 04
3	003 001	1 0066	3	003 002	296 20	297 21
4	004 001	1 0193	4	004 002	316 70	317 72
5	005 001	1 3035	5	005 002	501 10	502 40
6	006 001	1 0968	6	006 002	396 60	397 70
7	007 001	1 0074	7	007 002	188 30	189 31
8	008 001	1 0034	8	008 002	622 40	623 40
9	009 001	1 0328	9	009 002	324 70	325 73
10	010 001	1 0967	10	010 002	403 60	404 70
11	011 001	1 0590	11	011 002	317 60	318 66
12	012 001	1 1146	12	012 002	322 50	323 61
13	013 001	1 1005	13	013 002	170 50	171 60
14	014 001	1 0339	14	014 002	200 60	201 64
15	015 001	1 0310	15	015 002	240 20	241 23
16	016 001	1 0932	16	016 002	363 00	364 09
17	017 001	1 1343	17	017 002	246 60	247 73
18	018 001	1 0817	18	018 002	195 77	196 85
19	019 001	1 0147	19	019 002	35 52	36 53
20	020 001	1 0225	20	020 002	68 06	69 08
21	021 001	2 0578	21	021 002	74 60	76 66

(*) The total weight of each sample used for the activity calculations is the sum of the weights of each aliquot removed for rad screens and the weights of each sample received for isotopic analysis

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ATTACHMENT C

Survey Unit 77906 Data Summary

SURVEY UNIT 77906 DATA

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Survey Unit 7790b Data Summary

Total Surface Activity Measurements

	15	26	
	Number Required	Number Obtained	
MIN	-7 3		dpm/100 cm^2
MAX	35 2		dpm/100 cm^2
MEAN	12 6		dpm/100 cm^2
STD DEV	10 2		dpm/100 cm^2
TRANSURANIC DCGL$_W$	100		dpm/100 cm^2

Removable Activity Measurements

	15	26	
	Number Required	Number Obtained	
MIN	-0 9		dpm/100 cm^2
MAX	4 2		dpm/100 cm^2
MEAN	0 5		dpm/100 cm^2
STD DEV	1 2		dpm/100 cm^2
TRANSURANIC DCGL$_W$	20		dpm/100 cm^2

Media Sample Activity

Media Samples	15	19
	Number Required	Number Obtained

Total Uranium Results

MIN	-13 9	dpm/100 cm^2
MAX	309 9	dpm/100 cm^2
MEAN	111 3	dpm/100 cm^2
STD DEV	92 5	dpm/100 cm^2
DCGL$_W$	5000	dpm/100 cm^2

Total Transuranic Results

MIN	0 6	dpm/100 cm^2
MAX	85 5	dpm/100 cm^2
MEAN	20 8	dpm/100 cm^2
STD DEV	23 3	dpm/100 cm^2
DCGL$_W$	100	dpm/100 cm^2

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Survey Unit 77906 Building 779 Total Surface Contamination Results

Total Surface Activity Survey						Quality Control Survey				
Meter Model	NE Electra w/ DP6 Probe				Local Area Bkgd (cpm)	NE Electra w/ DP6 Probe			Local Area Bkgd (cpm)	
Instrument #	1194	1370	2358	1265	2 9	2358	2358	N/A	3 0	
Cal. Due Date	10/22/99	10/8/99	1/19/00	3/2/00		1/19/00	1/19/00	N/A		
Efficiency (c/d)	0.221	0 212	0.220	0.213		0.220	0.220	N/A		
	Total Surface Activity Measurements					Quality Control Measurements				
Sample Location Number	Serial #	Date	(cpm)	MDA (dpm/100 cm²)	(dpm/100 cm²)	Serial #	Date	(cpm)	MDA (dpm/100 cm²)	(dpm/100 cm²)
1	1194	08/04/99	8 0	37 4	23 0					
2	1194	08/04/99	2 0	37 4	-4 1					
3	1194	08/04/99	9 0	37 4	27 5					
4	1194	08/04/99	4 0	37 4	4 9					
5	1194	08/04/99	1 3	37 4	-7 3					
6	1194	08/04/99	6 0	37 4	14 0					
7	1370	08/03/99	3 [illegible]	37 4	1 8					
8	1370	08/03/99	6 0	37 4	14 6					
9	1370	08/03/99	8 0	37 4	24 0					
10	1370	08/03/99	5 3	37 4	10 8					
11	1194	08/05/99	9 3	37 4	28 9					
12	1194	08/05/99	3 3	37 4	1 8					
13	1370	08/06/99	5 3	37 4	11 3					
14	1370	08/06/99	6 0	37 4	14 0					
15	1194	08/05/99	7 3	37 4	19 8					
16	1194	08/05/99	6 7	37 4	17 1					
17	1194	08/05/99	6 0	37 4	14 0					
18	1194	08/05/99	10 7	37 4	35 2					
19	1194	08/05/99	4 0	37 4	4 9					
20	1194	08/05/99	7 3	37 4	19 8	2358	08/05/99	8 0	38	22 7
21	1194	08/05/99	4 7	37 4	8 1	2358	08/05/99	6 7	38	16.8
22	1194	08/05/99	3 3	37 4	1 8					
23	1265	10/27/99	4 7	39 0	8 4					
24	1265	10/27/99	6 0	39 0	14 5	2358	10/27/99	4 0	38	4.5
25	1265	10/27/99	4 7	39 0	8 4					
26	1265	10/27/99	5.3	39 0	11.2					
				MIN	7 3					
				MAX	35.2					
				MEAN	12 6					
				SD	10 2					
				Transuranic $DCGL_W$	100					

Survey Unit 77906 Building 779 Smear Results

Smear Location Number	Smear Results				
	Serial Number	Date Counted	Gross (cpm)	(dpm/100 cm^2)	MDA
1	1160	8/5/99	0 0	-0 3	6 5
2	1160	8/5/99	1 0	2 7	6 5
3	1160	8/5/99	0 0	-0 3	6 5
4	1160	8/5/99	0 0	-0 3	6 5
5	1160	8/5/99	1 0	2 7	6 5
6	1160	8/5/99	0 5	1 2	6 5
7	1160	8/5/99	0 5	1 2	6 5
8	1160	8/5/99	0 0	-0 3	6 5
9	1160	8/5/99	0 0	-0 3	6 5
10	1160	8/5/99	0 0	-0 3	6 5
11	1160	8/5/99	0 5	1 2	6 5
12	1160	8/5/99	0 5	1 2	6 5
13	1160	8/5/99	0 0	-0 3	6 5
14	1160	8/5/99	0 0	-0 3	6 5
15	1160	8/5/99	0 0	-0 3	6 5
16	1160	8/5/99	1 5	4 2	6 5
17	1160	8/5/99	0 0	-0 3	6 5
18	1160	8/5/99	0 0	-0 3	6 5
19	1160	8/5/99	0 0	-0 3	6 5
20	1160	8/5/99	0 5	1 2	6 5
21	1160	8/5/99	0 5	1 2	6 5
22	1160	8/5/99	0 0	-0 3	6 5
23	814	10/27/99	0 5	0 6	8 3
24	814	10/27/99	0 0	-0 9	8 3
25	814	10/27/99	0 0	-0 9	8 3
26	814	10/27/99	0 5	0 6	8 3
			MIN	-0 9	
			MAX	4 2	
			MEAN	0 5	
			SD	1 2	
			Transuranic $DCGL_W$	20	

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Survey Unit 77906 Building 779 Paint/Solid Media Sample Results

LOCATION DESCRIPTION	SAMPLE LOCATION NUMBER	SITE SAMPLE ID	NUCLIDE	pCi/g	MDA (pCi/g)	WEIGHT (g)	SURFACE AREA (in^2)	INDIVIDUAL NUCLIDE ($dpm/100cm^2$)	ESTIMATED MDA ($dpm/100cm^2$)	URANIUM TOTAL ($dpm/100cm^2$) $DCGL_W$=5000	TRANSURANIC TOTAL ($dpm/100cm^2$) $DCGL_W$=100
Roof	1	001 002	U-233/234	0 270	0 070	258 20	40	60 0	15 5		
			U-235	0 054	0 049			12 0	10 9		
			U-238	0 211	0 069			46 9	15 3	118 8	
			Pu-239/240	0 018	0 050			4 0	11 1		
			Am-241	0 057	0 052			12 7	11 6		16 7
Roof	2	002 002	U-233/234	0 367	0 034	351 40	40	110 9	10 3		
			U-235	0 062	0 042			18 7	12 7		
			U-238	0 398	0 060			120 3	18 1	250 0	
			Pu-239/240	0 000	0 045			0 0	13 6		
			Am-241	0 050	0 045			15 1	13 6		15 1
Roof	3	003 002	U-233/234	0 269	0 068	286 10	40	66 2	16 7		
			U-235	0 015	0 040			3 7	9 8		
			U-238	0 326	0 033			80 2	8 1	150 1	
			Pu-239/240	0 016	0 045			3 9	11 1		
			Am-241	0 055	0 050			13 5	12 3		17 5
Roof	4	004 002	U-233/234	0 211	0 074	200 80	40	36 4	12 8		
			U-235	0 000	0 044			0 0	7 6		
			U-238	0 182	0 035			31 4	6 0	67 9	
			Pu-239/240	0 011	0 091			1 9	15 7		
			Am-241	0 000	0 053			0 0	9 2		1 9
Roof	5	005 002	U-233/234	0 157	0 039	347 70	40	47 0	11 7		
			U-235	0 018	0 048			5 4	14 4		
			U-238	0 199	0 039			59 5	11 7	111 9	
			Pu-239/240	0 031	0 042			9 3	12 6		
			Am-241	0 037	0 050			11 1	15 0		20 3
Roof	6	006 002	U-233/234	0 351	0 032	516 90	40	156 1	14 2		
			U-235	0 029	0 039			12 9	17 3		
			U-238	0 317	0 066			141 0	29 3	309 9	
			Pu-239/240	0 018	0 048			8 0	21 3		
			Am-241	0 017	0 047			7 6	20 9		15 6
Roof	7	007 002	U-233/234	0 265	0 065	308 50	40	70 3	17 3		
			U-235	0 000	0 038			0 0	10 1		
			U-238	0 375	0 031			99 5	8 2	169 8	
			Pu-239/240	0 068	0 046			18 0	12 2		
			Am-241	0 035	0 048			9 3	12 7		27 3
Roof	8	008 002	U-233/234	0 244	0 067	213 70	40	44 9	12 3		
			U-235	0 017	0 046			3 1	8 5		
			U-238	0 354	0 066			65 1	12 1	113 1	
			Pu-239/240	0 019	0 051			3 5	9 4		
			Am-241	0 000	0 050			0 0	9 2		3 5

Survey Unit 77906 Building 779 Paint/Solid Media Sample Results

LOCATION DESCRIPTION	SAMPLE LOCATION NUMBER	SITE SAMPLE ID	NUCLIDE	pCi/g	MDA (pCi/g)	WEIGHT (g)	SURFACE AREA (in²)	INDIVIDUAL NUCLIDE (dpm/100cm²)	ESTIMATED MDA (dpm/100cm²)	URANIUM TOTAL (dpm/100cm²) $DCGL_W$=5000	TRANSURANIC TOTAL (dpm/100cm²) $DCGL_W$=100
Roof	9	009 002	U-233/234	0 071	0 039	229 60	40	14 0	7 7		
			U-235	0 000	0 048			0 0	9 5		
			U-238	0 249	0 068			49 2	13 4	63 2	
			Pu-239/240	0 092	0 050			18 2	9 9		
			Am-241	0 018	0 049			3 6	9 7		21 7
Roof	10	010 002	U-233/234	0 048	0 044	253 70	40	10 5	9 6		
			U-235	0 020	0 054			4 4	11 8		
			U-238	0 224	0 043			48 9	9 4	63 7	
			Pu-239/240	0 019	0 051			4 1	11 1		
			Am-241	0 018	0 049			3 9	10 7		8 1
Wall	11	011 002	U-233/234	0 212	0 074	8 19	40	1 5	0 5		
			U-235	0 000	0 044			0 0	0 3		
			U-238	0 170	0 035			1 2	0 2	2 7	
			Pu-239/240	0 029	0 100			0 2	0 7		
			Am-241	0 058	0 052			0 4	0 4		0 6
Roof	13	013 002	U-233/234	0 346	0 077	202 70	40	60 3	13 4		
			U-235	0 000	0 054			0 0	9 4		
			U-238	0 255	0 043			44 5	7 5	104 8	
			Pu-239/240	-0 006	0 071			-1 0	12 4		
			Am-241	0 035	0 047			6 1	8 2		5 1
Roof	14	014 002	U-233/234	0 451	0 036	238 30	40	92 5	7 4		
			U-235	0 033	0 044			6 8	9 0		
			U-238	0 457	0 063			93 7	12 9	192 9	
			Pu-239/240	-0 006	0 076			-1 2	15 6		
			Am-241	0 018	0 050			3 7	10 2		2 5
Roof	15	015 002	U-233/234	0 204	0 040	266 60	40	46 8	9 2		
			U-235	0 036	0 049			8 3	11 2		
			U-238	0 328	0 070			75 2	16 1	130 3	
			Pu-239/240	0 028	0 038			6 4	8 7		
			Am-241	0 017	0 046			3 9	10 5		10 3
Roof	16	016 002	U-233/234	0 279	0 065	404 80	40	97 2	22 6		
			U-235	0 033	0 045			11 5	15 7		
			U-238	0 399	0 065			138 9	22 6	247 6	
			Pu-239/240	0 015	0 040			5 2	13 9		
			Am-241	0 000	0 174			0 0	60 6		5 2

Survey Unit 77906 Building 779 Paint/Solid Media Sample Results

LOCATION DESCRIPTION	SAMPLE LOCATION NUMBER	SITE SAMPLE ID	NUCLIDE	pCi/g	MDA (pCi/g)	WEIGHT (g)	SURFACE AREA (in^2)	INDIVIDUAL NUCLIDE ($dpm/100cm^2$)	ESTIMATED MDA ($dpm/100cm^2$)	URANIUM TOTAL ($dpm/100cm^2$) $DCGL_W$=5000	TRANSURANIC TOTAL ($dpm/100cm^2$) $DCGL_W$=100
Roof	23	023 001	U-233/234	0 018	0 260	34 99	4	5 3	78 3		
			U-235	-0 023	0 209			-6 8	62 9		
			U-238	0 072	0 209			21 5	62 9	20 0	
			Pu-239/240	0 162	0 140			48 8	42 1		
			Am-241	0 122	0 148			36 7	44 5		85 5
Roof	24	024 001	U-233/234	-0 051	0 239	37 46	4	-16 3	77 0		
			U-235	0 001	0 210			0 4	67 7		
			U-238	0 024	0 192			7 8	61 9	-8 1	
			Pu-239/240	0 085	0 155			27 5	49 9		
			Am-241	0 146	0 235			47 0	75 7		74 5
Roof	25	025 001	U-233/234	-0 013	0 239	49 66	4	-5 4	102 1		
			U-235	-0 028	0 210			-11 9	89 7		
			U-238	0 008	0 192			3 4	82 0	-13 9	
			Pu-239/240	0 035	0 124			14 9	53 0		
			Am-241	0 059	0 221			25 2	94 4		40 1
Roof	26	026 001	U-233/234	-0 015	0 189	29 25	4	-3 8	47 6		
			U-235	0 000	0 086			0 0	21 7		
			U-238	0 095	0 086			24 0	21 7	20 2	
			Pu-239/240	0 011	0 122			2 7	30 7		
			Am-241	0 087	0 262			21 8	65 9		24 5

MIN	-13 9	0 6
MAX	309 9	85 5
MEAN	111 3	20 8
SD	92 5	23 3
$DCGL_W$ =	5000	100

Survey Unit 77906 Building 779 Sample Weight Data Sheet

RIN NUMBER 99A9005			RIN NUMBER 99A9005			SUM (*)
Sample Location Number	Event	Rad Screening Weight, grams	Sample Location Number	Event	Isotopic Analysis Weight, grams	Total Weight, grams
N/A	N/A	N/A	1	001 002	258 20	258 20
N/A	N/A	N/A	2	002 002	351 40	351 40
N/A	N/A	N/A	3	003 002	286 10	286 10
N/A	N/A	N/A	4	004 002	200 80	200 80
N/A	N/A	N/A	5	005 002	347 70	347 70
N/A	N/A	N/A	6	006 002	516 90	516 90
N/A	N/A	N/A	7	007 002	308 50	308 50
N/A	N/A	N/A	8	008 002	213 70	213 70
N/A	N/A	N/A	9	009 002	229 60	229 60
N/A	N/A	N/A	10	010 002	253 70	253 70
N/A	N/A	N/A	11	011 002	8 19	8 19
N/A	N/A	N/A	13	013 002	202 70	202 70
N/A	N/A	N/A	14	014 002	238 30	238 30
N/A	N/A	N/A	15	015 002	266 60	266 60
N/A	N/A	N/A	16	016 002	404 80	404 80
N/A	N/A	N/A	23	023 002	34 99	34 99
N/A	N/A	N/A	24	024 002	37 46	37 46
N/A	N/A	N/A	25	025 002	49 66	49 66
N/A	N/A	N/A	26	026 002	29 25	29 25

(*) The total weight of each sample used for the activity calculations is the sum of the weights of each aliquot removed for rad screens and the weights of each sample received for isotopic analysis

ATTACHMENT D

Survey Unit 77930 Data Summary

SURVEY UNIT 77930 DATA

Survey Unit 77930 Data Summary

Total Surface Activity Measurements

	11[1] Number Required	11 Number Obtained	
MIN	-4 0		dpm/100 cm^2
MAX	21 4		dpm/100 cm^2
MEAN	5 5		dpm/100 cm^2
STD DEV	7 1		dpm/100 cm^2
TRANSURANIC DCGL$_W$	100		dpm/100 cm^2

Removable Activity Measurements

	11[1] Number Required	11 Number Obtained	
MIN	-0 6		dpm/100 cm^2
MAX	0 9		dpm/100 cm^2
MEAN	0 1		dpm/100 cm^2
STD DEV	0 8		dpm/100 cm^2
TRANSURANIC DCGL$_W$	20		dpm/100 cm^2

Media Sample Activity

Media Samples	11[1] Number Required	14[2] Number Obtained

Total Uranium Results

MIN	1 8	dpm/100 cm^2
MAX	24 3	dpm/100 cm^2
MEAN	9 0	dpm/100 cm^2
STD DEV	7 5	dpm/100 cm^2
DCGL$_W$	5000	dpm/100 cm^2

Total Transuranic Results

MIN	0 1	dpm/100 cm^2
MAX	16 7	dpm/100 cm^2
MEAN	3 7	dpm/100 cm^2
STD DEV	5 1	dpm/100 cm^2
DCGL$_W$	100	dpm/100 cm^2

(1) Number verified per the "Post Survey Summary Statistics Calculation Verification Worksheet," located in the B779 Project Files

(2) Media samples were collected prior to the removal of walls Therefore, the number of media samples is larger than the number of total and removable surface activity measurements

Survey Unit 77930 Building 779 Total Surface Contamination Results

Total Surface Activity Survey						Quality Control Survey				
Meter Model	NE Electra w/ DP6 Probe			Local Area Bkgd (cpm)		NE Electra w/ DP6 Probe			Local Area Bkgd (cpm)	
Instrument #	2378	2376	N/A	2 9		2363	N/A	N/A	4 0	
Cal. Due Date	5/3/00	3/23/00	N/A			5/17/00	N/A	N/A		
Efficiency (c/d)	0 217	0 207	N/A			0 219	N/A	N/A		
Total Surface Activity Measurements						**Quality Control Measurements**				
Sample Location Number	Serial #	Date	(cpm)	MDA (dpm/100 cm²)	(dpm/100 cm²)	Serial #	Date	(cpm)	MDA (dpm/100 cm²)	(dpm/100 cm²)
1										
2	2378	12/13/99	4 0	38	5 2					
3	2378	12/13/99	4 0	38	5 2					
4	2378	12/13/99	4 0	38	5 2					
5	2378	12/13/99	4 0	38	5.2					
6	2378	12/13/99	2 0	38	-4 0					
7	2378	12/13/99	2 0	38	-4 0					
8										
9										
10	2376	12/13/99	7 3	40	21.4	2363	12/14/99	7 3	43	15 1
11	2376	12/13/99	4 7	40	8 9	2363	12/14/99	6 0	43	9 1
12	2376	12/13/99	4 7	40	8 9					
13										
14										
15										
16	2378	12/13/99	2 7	38	-0.8					
17	2376	12/13/99	4 7	40	8 9					
				MIN	-4 0					
				MAX	21 4					
				MEAN	5 5					
				SD	7 1					
				Transuranic $DCGL_W$	100					

NOTE The walls with locations 1 8 9 and 13-15 were removed prior to performing Final Survey

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Survey Unit 77930 Building 779 Smear Results

Smear Location Number	Smear Results				
	Serial Number	Date Counted	Gross (cpm)	(dpm/100 cm^2)	MDA
1					
2	1160	12/14/99	0 0	-0 6	7 5
3	1160	12/14/99	0 0	-0 6	7 5
4	814	12/14/99	0 5	0 9	4 1
5	814	12/14/99	0 0	-0 6	4 1
6	814	12/14/99	0 5	0 9	4 1
7	1160	12/14/99	0 0	-0 6	7 5
8					
9					
10	1160	12/14/99	0 0	-0 6	7 5
11	1160	12/14/99	0 5	0 9	7 5
12	1160	12/14/99	0 5	0 9	7 5
13					
14					
15					
16	814	12/14/99	0 5	0 9	4 1
17	814	12/14/99	0 0	-0 6	4 1
			MIN	-0 6	
			MAX	0 9	
			MEAN	0 1	
			SD	0 8	
			Transuranic $DCGL_W$	20	

NOTE The walls with locations 1, 8, 9, and 13-15 were removed prior to performing Final Survey

Survey Unit 77930 Building 779 Paint/Solid Media Sample Results

LOCATION DESCRIPTION	SAMPLE LOCATION NUMBER	SITE SAMPLE ID	NUCLIDE	pCi/g	MDA (pCi/g)	WEIGHT (g)	SURFACE AREA (in²)	INDIVIDUAL NUCLIDE (dpm/100cm²)	ESTIMATED MDA (dpm/100cm²)	URANIUM TOTAL (dpm/100cm²) $DCGL_W$=5000	TRANSURANIC TOTAL (dpm/100cm²) $DCGL_W$=100
Hallway to Annex A, Wall 2	2	002 001	U-234	0 218	0 052	28 76	40	5 4	1 3		
			U-235	0 011	0 018			0 3	0 4		
			U-238	0 155	0 042			3 8	1 0	9.5	
			Pu-239/240	0 000	0 022			0 0	0 5		
			Am-241	0 011	0 017			0 3	0 4		0.3
Hallway to Annex A, Wall 2	3	003 001	U-234	0 269	0 045	47 73	40	11 0	1 8		
			U-235	0 003	0 048			0 1	2 0		
			U-238	0 247	0 034			10 1	1 4	21 3	
			Pu-239/240	0 035	0 028			1 4	1 1		
			Am-241	0 031	0 019			1 3	0 8		2.7
Hallway to Annex A, Wall 2	4	004 001	U-234	0 450	0 041	16 17	40	6 3	0 6		
			U-235	0 024	0 041			0 3	0 6		
			U-238	0 450	0 028			6 3	0 4	12 9	
			Pu-239/240	0 025	0 039			0 3	0 5		
			Am-241	0 041	0 049			0 6	0 7		0.9
Hallway to Annex A, Ceiling	5	005 001	U-234	0 087	0 041	13 52	40	1 0	0 5		
			U-235	-0 002	0 047			0 0	0 5		
			U-238	0 089	0 037			1 0	0 4	2.0	
			Pu-239/240	0 007	0 021			0 1	0 2		
			Am-241	0 004	0 035			0 0	0 4		0.1
Hallway to Annex A, Ceiling	6	006 001	U-234	0 110	0 034	10 76	40	1 0	0 3		
			U-235	0 008	0 038			0 1	0 4		
			U-238	0 080	0 028			0 7	0 3	1.8	
			Pu-239/240	0 175	0 039			1 6	0 4		
			Am-241	0 129	0 035			1 2	0 3		2.8
Hallway to Annex A, Ceiling	7	007 001	U-234	0 074	0 053	21 03	40	1 3	1 0		
			U-235	0 015	0 036			0 3	0 7		
			U-238	0 078	0 036			1 4	0 7	3.0	
			Pu-239/240	0 083	0 042			1 5	0 8		
			Am-241	0 030	0 019			0 5	0 3		2 0

Survey Unit 77930 Building 779 Paint/Solid Media Sample Results

LOCATION DESCRIPTION	SAMPLE LOCATION NUMBER	SITE SAMPLE ID	NUCLIDE	pCi/g	MDA (pCi/g)	WEIGHT (g)	SURFACE AREA (In^2)	INDIVIDUAL NUCLIDE ($dpm/100cm^2$)	ESTIMATED MDA ($dpm/100cm^2$)	URANIUM TOTAL ($dpm/100cm^2$) $DCGL_W$=5000	TRANSURANIC TOTAL ($dpm/100cm^2$) $DCGL_W$=100
Hallway to Annex A, Wall 6	8	008 001	U-234	0 066	0 037	19 15	40	1 1	0 6		
			U-235	0 005	0 016			0 1	0 3		
			U-238	0 098	0 031			1 6	0 5	2 8	
			Pu-239/240	0 590	0 036			9 7	0 6		
			Am-241	0 171	0 021			2 8	0 3		12 5
Hallway to Annex A, Wall 6	9	009 001	U-234	0 087	0 048	13 97	40	1 0	0 6		
			U-235	0 013	0 030			0 2	0 4		
			U-238	0 125	0 040			1 5	0 5	2 7	
			Pu-239/240	0 050	0 023			0 6	0 3		
			Am-241	0 062	0 049			0 7	0 6		1 3
Hallway to Annex A, Wall 2	10	010 001	U-234	0 280	0 045	38 89	40	9 4	1 5		
			U-235	0 027	0 038			0 9	1 3		
			U-238	0 254	0 042			8 5	1 4	18 8	
			Pu-239/240	0 041	0 018			1 4	0 6		
			Am-241	0 020	0 031			0 7	1 0		2 0
Hallway to Annex A, Wall 2	11	011 001	U-234	0 360	0 017	38 75	40	12 0	0 6		
			U-235	0 012	0 039			0 4	1 3		
			U-238	0 358	0 033			11 9	1 1	24 3	
			Pu-239/240	0 012	0 019			0 4	0 6		
			Am-241	0 033	0 017			1 1	0 6		1 5
Hallway to Annex A, Wall 2	12	012 001	U-234	0 180	0 051	27 44	40	4 2	1 2		
			U-235	0 017	0 037			0 4	0 9		
			U-238	0 140	0 037			3 3	0 9	8.0	
			Pu-239/240	0 248	0 019			5 9	0 4		
			Am-241	0 092	0 048			2 2	1 1		8.0
Stairwell to Annex A, Wall 2	13	013 001	U-234	0 075	0 064	23 03	40	1 5	1 3		
			U-235	0 030	0 037			0 6	0 7		
			U-238	0 131	0 037			2 6	0 7	4.7	
			Pu-239/240	0 690	0 150			13 7	3 0		
			Am-241	0 152	0 048			3 0	1 0		16 7
Stairwell to Annex A, Ceiling	14	014 001	U-234	0 121	0 047	38 00	40	4 0	1 5		
			U-235	0 026	0 044			0 8	1 4		
			U-238	0 091	0 040			3 0	1 3	7.8	
			Pu-239/240	0 006	0 019			0 2	0 6		
			Am-241	0 001	0 055			0 0	1 8		0 2

Survey Unit 77930 Building 779 Paint/Solid Media Sample Results

LOCATION DESCRIPTION	SAMPLE LOCATION NUMBER	SITE SAMPLE ID	NUCLIDE	pCi/g	MDA (pCi/g)	WEIGHT (g)	SURFACE AREA (in^2)	INDIVIDUAL NUCLIDE ($dpm/100cm^2$)	ESTIMATED MDA ($dpm/100cm^2$)	URANIUM TOTAL ($dpm/100cm^2$) $DCGL_W$=5000	TRANSURANIC TOTAL ($dpm/100cm^2$) $DCGL_W$=100
Stairwell to Annex A, Wall 4	15	015 001	U-234	0 122	0 052	28 95	40	3 0	1 3		
			U-235	0 007	0 047			0 2	1 2		
			U-238	0 124	0 041			3 1	1 0	**6 3**	
			Pu-239/240	0 004	0 036			0 1	0 9		
			Am-241	0 025	0 019			0 6	0 5		**0 7**

NOTE Doorway with Location #1 was removed during D&D

MIN	**1 8**	**0 1**
MAX	**24 3**	**16 7**
MEAN	**9 0**	**3 7**
SD	**7 5**	**5 1**
$DCGL_W$ =	**5000**	**100**

ATTACHMENT E

Survey Unit 77931 Data Summary

SURVEY UNIT 77931 DATA

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Survey Unit 7793 Data Summary

Total Surface Activity Measurements

	15	15	
	Number Required	Number Obtained	
MIN	3 7		dpm/100 cm^2
MAX	40 4		dpm/100 cm^2
MEAN	17 1		dpm/100 cm^2
STD DEV	11 5		dpm/100 cm^2
TRANSURANIC DCGL$_W$	100		dpm/100 cm^2

Removable Activity Measurements

	15	15	
	Number Required	Number Obtained	
MIN	-0 9		dpm/100 cm^2
MAX	1 2		dpm/100 cm^2
MEAN	0 4		dpm/100 cm^2
STD DEV	0 9		dpm/100 cm^2
TRANSURANIC DCGL$_W$	20		dpm/100 cm^2

Media Sample Activity

Media Samples	N/A	N/A
	Number Required	Number Obtained

Total Uranium Results

MIN	N/A	dpm/100 cm^2
MAX	N/A	dpm/100 cm^2
MEAN	N/A	dpm/100 cm^2
STD DEV	N/A	dpm/100 cm^2
DCGL$_W$	N/A	dpm/100 cm^2

Total Transuranic Results

MIN	N/A	dpm/100 cm^2
MAX	N/A	dpm/100 cm^2
MEAN	N/A	dpm/100 cm^2
STD DEV	N/A	dpm/100 cm^2
DCGL$_W$	N/A	dpm/100 cm^2

Survey Unit 77931 Building 779 Total Surface Contamination Results

Total Surface Activity Survey						Quality Control Survey				
Meter Model	NE Electra w/ DP6 Probe			Local Area Bkgd (cpm)		NE Electra w/ DP6 Probe			Local Area Bkgd (cpm)	
Instrument #	2374	N/A	N/A	2 5		1370	N/A	N/A	3 0	
Cal. Due Date	2/29/00	N/A	N/A			4/20/00	N/A	N/A		
Efficiency (c/d)	0 218	N/A	N/A			0 214	N/A	N/A		
	Total Surface Activity Measurements					Quality Control Measurements				
Sample Location Number	Serial #	Date	(cpm)	MDA (dpm/100 cm²)	(dpm/100 cm²)	Serial #	Date	(cpm)	MDA (dpm/100 cm²)	(dpm/100 cm²)
1	2374	11/29/99	9 3	36	31.2	1370	11/29/00	7.3	39	20 1
2	2374	11/29/99	4 0	36	6 9					
3	2374	11/29/99	4 0	36	6 9					
4	2374	11/29/99	4 0	36	6 9					
5	2374	11/29/99	6 7	36	19.3					
6	2374	11/29/99	6 7	36	19.3					
7	2374	11/29/99	3 3	36	3 7					
8	2374	12/01/99	9 3	36	31.2					
9	2374	11/29/99	6 7	36	19.3					
10	2374	11/29/99	4 0	36	6 9					
11	2374	11/29/99	8 7	36	28.4					
12	2374	11/29/99	11.3	36	40.4	1370	11/29/00	7.3	39	20 1
13	2374	11/29/99	6 7	36	19.3					
14	2374	11/29/99	4 7	36	10 1					
15	2374	11/29/99	4 0	36	6 9					
				MIN	3 7					
				MAX	40.4					
				MEAN	17 1					
				SD	11 5					
				Transuranic $DCGL_W$	100					

Survey Unit 77931 Building 779 Smear Results

Smear Location Number	Smear Results				
	Serial Number	Date Counted	Gross (cpm)	(dpm/100 cm^2)	MDA
1	814	11/29/99	0 0	-0.9	8 3
2	814	11/29/99	0 0	-0 9	8 3
3	1407	11/29/99	0 5	0.9	7 5
4	1160	11/29/99	0 5	1 2	6.5
5	1407	11/29/99	0 0	-0.6	7 5
6	1160	11/29/99	0 5	1.2	6 5
7	814	11/29/99	0 5	0 6	8 3
8	814	11/29/99	0 5	0.9	7 5
9	814	11/29/99	0 5	0 6	8 3
10	1160	11/29/99	0 5	1.2	6 5
11	1160	11/29/99	0 5	1 2	6 5
12	1407	11/29/99	0 5	0 9	7 5
13	1407	11/29/99	0 0	-0.6	7 5
14	814	11/29/99	0 0	-0 9	8 3
15	1160	11/29/99	0 5	1 2	6 5
			MIN	-0 9	
			MAX	1 2	
			MEAN	0 4	
			SD	0 9	
			Transuranic $DCGL_W$	20	

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ATTACHMENT F

Survey Unit 77932 Data Summary

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SURVEY UNIT 77932 DATA

Survey Unit 77932 Data Summary

Total Surface Activity Measurements

	15	24
	Number Required	Number Obtained

MIN	-2 7	dpm/100 cm^2
MAX	49 9	dpm/100 cm^2
MEAN	17 3	dpm/100 cm^2
STD DEV	12 4	dpm/100 cm^2
TRANSURANIC $DCGL_W$	100	dpm/100 cm^2

Removable Activity Measurements

	15	24
	Number Required	Number Obtained

MIN	-0 6	dpm/100 cm^2
MAX	2 4	dpm/100 cm^2
MEAN	0 2	dpm/100 cm^2
STD DEV	1 2	dpm/100 cm^2
TRANSURANIC $DCGL_W$	20	dpm/100 cm^2

Media Sample Activity

Media Samples	N/A	N/A
	Number Required	Number Obtained

Total Uranium Results

MIN	N/A	dpm/100 cm^2
MAX	N/A	dpm/100 cm^2
MEAN	N/A	dpm/100 cm^2
STD DEV	N/A	dpm/100 cm^2
$DCGL_W$	N/A	dpm/100 cm^2

Total Transuranic Results

MIN	N/A	dpm/100 cm^2
MAX	N/A	dpm/100 cm^2
MEAN	N/A	dpm/100 cm^2
STD DEV	N/A	dpm/100 cm^2
$DCGL_W$	N/A	dpm/100 cm^2

Survey Unit 77932 Building 779 Total Surface Contamination Results

Total Surface Activity Survey

Meter Model	NE Electra w/ DP6 Probe			Local Area Bkgd (cpm)
Instrument #	2376	1837	N/A	3 9
Cal. Due Date	3/23/00	2/13/00	N/A	
Efficiency (c/d)	0.210	0 217	N/A	

Quality Control Survey

NE Electra w/ DP6 Probe			Local Area Bkgd (cpm)
1834	N/A	N/A	4 0
2/4/00	N/A	N/A	
0.212	N/A	N/A	

Total Surface Activity Measurements

Sample Location Number	Serial #	Date	(cpm)	MDA (dpm/100 cm²)	(dpm/100 cm²)
1	2376	11/17/99	7 3	44	16 4
2	2376	11/17/99	7 3	44	16 4
3	2376	11/17/99	3 3	44	-2 7
4	2376	11/17/99	10 0	44	29 3
5	2376	11/17/99	9 3	44	25 9
6	2376	11/17/99	8 0	44	19 7
7	1837	11/16/99	4 7	43	3 8
8	1837	11/16/99	14 7	43	49 9
9	1837	11/16/99	6 7	43	13 1
10	2376	11/17/99	8 0	44	19 7
11	2376	11/17/99	6 7	44	13 5
12	2376	11/17/99	5 3	44	6 8
13	2376	11/17/99	5 3	44	6 8
14	2376	11/17/99	6 0	44	10 2
15	1837	11/16/99	7 3	43	15 8
16	2376	11/17/99	8 0	44	19 7
17	2376	11/17/99	10 0	44	29 3
18	2376	11/17/99	4 0	44	0 6
19	2376	11/17/99	4 3	44	2 1
20	2376	11/17/99	8 0	44	19 7
21	2376	11/17/99	9 3	44	25 9
22	2376	11/17/99	7 3	44	16 4
23	2376	11/17/99	12 7	44	42 1
24	2376	11/17/99	6 7	44	13 5
				MIN	-2 7
				MAX	49 9
				MEAN	17.3
				SD	12 4
				Transuranic $DCGL_w$	100

Quality Control Measurements

Serial #	Date	(cpm)	MDA (dpm/100 cm²)	(dpm/100 cm²)
1834	11/17/99	9.3	44	25 0
1834	11/17/99	8 7	44	22.2

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Survey Unit 77932 Building 779 Smear Results

Smear Location Number	Smear Results				
	Serial Number	Date Counted	Gross (cpm)	(dpm/100 cm^2)	MDA
1	1160	11/17/99	0 0	-0 6	7 5
2	1407	11/17/99	0 0	-0 6	4 1
3	1160	11/17/99	0 0	-0 6	7 5
4	814	11/17/99	0 0	-0 6	7 5
5	814	11/17/99	1 0	2 4	7 5
6	1160	11/17/99	0 0	-0 6	7 5
7	1407	11/17/99	0 5	0 9	4 1
8	1160	11/17/99	0 0	-0 6	7 5
9	1407	11/17/99	1 0	2 4	4 1
10	1407	11/17/99	0 0	-0 6	4 1
11	1160	11/17/99	0 0	-0 6	7 5
12	1407	11/17/99	0 0	-0 6	4 1
13	814	11/17/99	0 0	-0 6	7 5
14	814	11/17/99	1 0	2 4	7 5
15	814	11/17/99	0 5	0 9	7 5
16	1407	11/17/99	0 0	-0 6	4 1
17	814	11/17/99	0 5	0 9	7 5
18	1160	11/17/99	1 0	2 4	7 5
19	1160	11/17/99	0 0	-0 6	7 5
20	814	11/17/99	0 0	-0 6	7 5
21	1160	11/17/99	0 0	-0 6	7 5
22	814	11/17/99	0 0	-0 6	7 5
23	1407	11/17/99	0 5	0 9	4 1
24	1407	11/17/99	0 0	-0 6	4 1
			MIN	-0 6	
			MAX	2 4	
			MEAN	0 2	
			SD	1 2	
			Transuranic $DCGL_W$	20	

ATTACHMENT G

Survey Unit 77933 Data Summary

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SURVEY UNIT 77933 DATA

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Survey Unit 77933 Data Summary

Total Surface Activity Measurements

	15	39	
	Number Required	Number Obtained	
MIN	-6 7		dpm/100 cm^2
MAX	38 3		dpm/100 cm^2
MEAN	12 0		dpm/100 cm^2
STD DEV	11 6		dpm/100 cm^2
TRANSURANIC DCGL$_W$	100		dpm/100 cm^2

Removable Activity Measurements

	15	39	
	Number Required	Number Obtained	
MIN	-0 9		dpm/100 cm^2
MAX	2 1		dpm/100 cm^2
MEAN	-0 3		dpm/100 cm^2
STD DEV	0 8		dpm/100 cm^2
TRANSURANIC DCGL$_W$	20		dpm/100 cm^2

Media Sample Activity

Media Samples	15	20
	Number Required	Number Obtained

Total Uranium Results

MIN	1 7	dpm/100 cm^2
MAX	56 7	dpm/100 cm^2
MEAN	11 9	dpm/100 cm^2
STD DEV	13 4	dpm/100 cm^2
DCGL$_W$	5000	dpm/100 cm^2

Total Transuranic Results

MIN	0 3	dpm/100 cm^2
MAX	41 4	dpm/100 cm^2
MEAN	4 8	dpm/100 cm^2
STD DEV	8 9	dpm/100 cm^2
DCGL$_W$	100	dpm/100 cm^2

Survey Unit 77933 Building 779 Total Surface Contamination Results

Total Surface Activity Survey						Quality Control Survey				
Meter Model	NE Electra w/ DP6 Probe			Local Area Bkgd (cpm)		NE Electra w/ DP6 Probe			Local Area Bkgd (cpm)	
Instrument #	1370	2380	N/A	2.8		2378	N/A	N/A	2.7	
Cal. Due Date	10/8/99	2/29/00	N/A			2/26/00	N/A	N/A		
Efficiency (c/d)	0.222	0.210	N/A			0.220	N/A	N/A		
	Total Surface Activity Measurements					Quality Control Measurements				
Sample Location Number	Serial #	Date	(cpm)	MDA (dpm/100 cm²)	(dpm/100 cm²)	Serial #	Date	(cpm)	MDA (dpm/100 cm²)	(dpm/100 cm²)
1	1370	09/11/99	4.7	37	8.6					
2	1370	09/11/99	6.0	37	14.5					
3	1370	09/11/99	4.0	37	5.4					
4	1370	09/11/99	9.3	37	29.3					
5	1370	09/11/99	4.0	37	5.4					
6	1370	09/11/99	8.0	37	23.5					
7	1370	09/11/99	6.0	37	14.5					
8	1370	09/11/99	8.0	37	23.5					
9	1370	09/11/99	6.0	37	14.5					
10	1370	09/11/99	8.0	37	23.5					
11	1370	09/11/99	10.0	37	32.5	2378	09/13/99	6.0	37	15.0
12	1370	09/11/99	8.0	37	23.5					
13	1370	09/11/99	11.3	37	38.3					
14	1370	09/11/99	7.3	37	20.3					
15	1370	09/11/99	10.0	37	32.5	2378	09/13/99	6.0	37	15.0
16	1370	09/11/99	6.7	37	17.6					
17	1370	09/11/99	2.7	37	-0.4					
18	1370	09/11/99	8.7	37	26.6					
19	2380	02/29/00	2.7	39	-0.5					
20	1370	09/11/99	2.0	37	-3.6					
21	1370	09/11/99	4.0	37	5.4					
22	1370	09/11/99	1.3	37	-6.7					
23	1370	09/11/99	4.0	37	5.4					
24	1370	09/11/99	3.3	37	2.3					
25	1370	09/11/99	5.3	37	11.3					
26	1370	09/11/99	3.3	37	2.3					
27	1370	09/11/99	3.3	37	2.3					
28	1370	09/11/99	8.0	37	23.5					
29	1370	09/11/99	6.0	37	14.5					
30	1370	09/11/99	4.0	37	5.4					
31	1370	09/11/99	5.3	37	11.3					
32	1370	09/11/99	5.3	37	11.3					
33	1370	09/11/99	4.0	37	5.4					
34	1370	09/11/99	8.0	37	23.5					
35	1370	09/11/99	2.0	37	-3.6					
36	1370	09/11/99	3.3	37	2.3					
37	1370	09/11/99	2.0	37	-3.6					
38	1370	09/11/99	3.3	37	2.3					
39	1370	09/11/99	4.0	37	5.4					
				MIN	-6.7					
				MAX	38.3					
				MEAN	12.0					
				SD	11.6					
				Transuranic $DCGL_w$	100					

Survey Unit 77933 Building 779 Smear Results

Smear Location Number	Smear Results				
	Serial Number	Date Counted	Gross (cpm)	(dpm/100 cm^2)	MDA
1	814	9/13/99	0 0	-0 9	8 3
2	1407	9/13/99	0 5	0 9	7 6
3	814	9/13/99	0 5	0 6	8 3
4	1407	9/13/99	0 0	-0 6	7 6
5	814	9/13/99	0 0	-0 9	8 3
6	1407	9/13/99	0 0	-0 6	7 6
7	814	9/13/99	0 0	-0 9	8 3
8	1407	9/13/99	0 0	-0 6	7 6
9	814	9/13/99	0 0	-0 9	8 3
10	1407	9/13/99	0 0	-0 6	7 6
11	814	9/13/99	0 0	-0 9	8 3
12	1407	9/13/99	0 0	-0 6	7 6
13	1407	9/13/99	0 0	-0 6	7 6
14	814	9/13/99	0 0	-0 9	8 3
15	1407	9/13/99	0 0	-0 6	7 6
16	814	9/13/99	0 0	-0 9	8 3
17	814	9/13/99	0 0	-0 9	8 3
18	1407	9/13/99	0 5	0 9	7 6
19	814	9/14/99	0 5	1 2	6 5
20	1407	9/13/99	0 5	0 9	7 6
21	814	9/13/99	0 0	-0 9	8 3
22	1407	9/13/99	0 0	-0 6	7 6
23	814	9/13/99	1 0	2 1	8 3
24	814	9/13/99	0 5	0 6	8 3
25	1407	9/13/99	0 5	0 9	7 6
26	814	9/13/99	0 0	-0 9	8 3
27	1407	9/13/99	0 0	-0 6	7 6
28	814	9/13/99	0 0	-0 9	8 3
29	1407	9/13/99	0 0	-0 6	7 6
30	814	9/13/99	0 0	-0 9	8 3
31	1407	9/13/99	0 0	-0 6	7 6
32	814	9/13/99	0 5	0 6	8 3
33	1407	9/13/99	0 0	-0 6	7 6
34	814	9/13/99	0 0	-0 9	8 3
35	1407	9/13/99	0 0	-0 6	7 6
36	814	9/13/99	0 0	-0 9	8 3
37	1407	9/13/99	0 5	0 9	7 6
38	814	9/13/99	0 5	0 6	8 3
39	1407	9/13/99	0 0	-0 6	7 6
			MIN	-0 9	
			MAX	2.1	
			MEAN	-0 3	
			SD	0 8	
			Transuranic $DCGL_W$	20	

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Survey Unit 77933 Building 779 Paint/Solid Media Sample Results

LOCATION DESCRIPTION	SAMPLE LOCATION NUMBER	SITE SAMPLE ID	NUCLIDE	pCi/g	MDA (pCi/g)	WEIGHT (g)	SURFACE AREA (in²)	INDIVIDUAL NUCLIDE (dpm/100cm²)	ESTIMATED MDA (dpm/100cm²)	URANIUM TOTAL (dpm/100cm²) DCGL$_W$=5000	TRANSURANIC TOTAL (dpm/100cm²) DCGL$_W$=100
Wall 4	20	001 001	U-233/234	0 105	0 130	27 58	40	2 5	3 1		
			U-235	-0 009	0 150			-0 2	3 6		
			U-238	0 333	0 130			7 9	3 1	10.2	
			Pu-239/240	0 078	0 093			1 8	2 2		
			Am-241	0 059	0 172			1 4	4 1		3.2
Beam 1	21	002 001	U-233/234	0 150	0 106	18 25	40	2 4	1 7		
			U-235	-0 027	0 149			-0 4	2 3		
			U-238	0 387	0 130			6 1	2 0	8 0	
			Pu-239/240	0 415	0 091			6 5	1 4		
			Am-241	0 111	0 060			1 7	0 9		8.3
Beam 2	22	003 001	U-233/234	0 453	0 121	9 74	40	3 8	1 0		
			U-235	-0 007	0 087			-0 1	0 7		
			U-238	0 561	0 106			4 7	0 9	8.4	
			Pu-239/240	0 060	0 103			0 5	0 9		
			Am-241	0 071	0 064			0 6	0 5		1.1
Wall 1	23	004 001	U-233/234	0 218	0 091	13 98	40	2 6	1 1		
			U-235	0 023	0 091			0 3	1 1		
			U-238	0 218	0 091			2 6	1 1	5 5	
			Pu-239/240	0 112	0 103			1 3	1 2		
			Am-241	0 064	0 134			0 8	1 6		2.1
Wall 8	24	005 001	U-233/234	0 230	0 141	18 83	40	3 7	2 3		
			U-235	0 007	0 141			0 1	2 3		
			U-238	0 258	0 118			4 2	1 9	8.0	
			Pu-239/240	0 000	0 101			0 0	1 6		
			Am-241	0 016	0 134			0 3	2 2		0.3
Wall 5	25	006 001	U-233/234	0 214	0 134	9 01	40	1 7	1 0		
			U-235	0 057	0 106			0 4	0 8		
			U-238	0 551	0 121			4 3	0 9	6.4	
			Pu-239/240	0 443	0 120			3 4	0 9		
			Am-241	0 015	0 125			0 1	1 0		3.5
Wall 1	26	007 001	U-233/234	0 238	0 165	66 66	40	13 6	9 5		
			U-235	0 007	0 087			0 4	5 0		
			U-238	0 339	0 122			19 4	7 0	33.5	
			Pu-239/240	0 053	0 071			3 1	4 1		
			Am-241	0 000	0 056			0 0	3 2		3.1

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Survey Unit 77933 Building 779 Paint/Solid Media Sample Results

LOCATION DESCRIPTION	SAMPLE LOCATION NUMBER	SITE SAMPLE ID	NUCLIDE	pCi/g	MDA (pCi/g)	WEIGHT (g)	SURFACE AREA (in²)	INDIVIDUAL NUCLIDE (dpm/100cm²)	ESTIMATED MDA (dpm/100cm²)	URANIUM TOTAL (dpm/100cm²) DCGL_W=5000	TRANSURANIC TOTAL (dpm/100cm²) DCGL_W=100
Wall 7	27	008 001	U-233/234	0 705	0 128	19 60	40	11 9	2 2		
			U-235	0 045	0 142			0 8	2 4		
			U-238	0 842	0 128			14 2	2 2	26 8	
			Pu-239/240	0 044	0 020			0 7	0 3		
			Am-241	0 021	0 057			0 4	1 0		1.1
Wall 7	28	009 001	U-233/234	0 262	0 163	9 17	40	2 1	1 3		
			U-235	0 014	0 105			0 1	0 8		
			U-238	0 412	0 105			3 2	0 8	5.4	
			Pu-239/240	0 059	0 096			0 5	0 8		
			Am-241	0 105	0 057			0 8	0 4		1.3
Wall 1	29	010 001	U-233/234	0 159	0 140	9 68	40	1 3	1 2		
			U-235	0 000	0 130			0 0	1 1		
			U-238	0 187	0 117			1 6	1 0	2.9	
			Pu-239/240	0 087	0 117			0 7	1 0		
			Am-241	-0 028	0 232			-0 2	1 9		0.5
Wall 1	30	011 001	U-233/234	0 200	0 147	34 67	40	6 0	4 4		
			U-235	0 018	0 047			0 5	1 4		
			U-238	0 209	0 129			6 2	3 8	12.7	
			Pu-239/240	0 067	0 071			2 0	2 1		
			Am-241	0 050	0 045			1 5	1 4		3.5
Wall 6	31	012 001	U-233/234	0 466	0 138	70 14	40	28 1	8 3		
			U-235	-0 017	0 153			-1 0	9 2		
			U-238	0 491	0 044			29 6	2 7	56.7	
			Pu-239/240	0 593	0 121			35 8	7 3		
			Am-241	0 093	0 114			5 6	6 9		41.4
Wall 1	32	013 001	U-233/234	0 290	0 169	5 47	40	1 4	0 8		
			U-235	-0 009	0 184			0 0	0 9		
			U-238	0 200	0 049			0 9	0 2	2.3	
			Pu-239/240	0 447	0 142			2 1	0 7		
			Am-241	0 181	0 045			0 9	0 2		3.0
Wall 5	33	014 001	U-233/234	0 211	0 169	15 05	40	2 7	2 2		
			U-235	0 000	0 184			0 0	2 4		
			U-238	0 203	0 049			2 6	0 6	5.4	
			Pu-239/240	0 007	0 142			0 1	1 8		
			Am-241	0 034	0 045			0 4	0 6		0.5

Survey Unit 77933 Building 779 Paint/Solid Media Sample Results

LOCATION DESCRIPTION	SAMPLE LOCATION NUMBER	SITE SAMPLE ID	NUCLIDE	pCi/g	MDA (pCi/g)	WEIGHT (g)	SURFACE AREA (in²)	INDIVIDUAL NUCLIDE (dpm/100cm²)	ESTIMATED MDA (dpm/100cm²)	URANIUM TOTAL (dpm/100cm²) *DCGL$_W$=5000*	TRANSURANIC TOTAL (dpm/100cm²) *DCGL$_W$=100*
Wall 1	34	015 001	U-233/234	0 314	0 129	9 57	40	2 6	1 1		
			U-235	-0 009	0 147			-0 1	1 2		
			U-238	0 445	0 105			3 7	0 9	**6 2**	
			Pu-239/240	0 053	0 237			0 4	2 0		
			Am-241	0 078	0 053			0 6	0 4		**1.1**
Wall 1	35	016 001	U-233/234	0 211	0 123	9 78	40	1 8	1 0		
			U-235	0 026	0 036			0 2	0 3		
			U-238	0 178	0 079			1 5	0 7	**3 5**	
			Pu-239/240	0 104	0 096			0 9	0 8		
			Am-241	0 033	0 045			0 3	0 4		**1.2**
Wall 2	36	017 001	U-233/234	0 150	0 203	13 15	40	1 7	2 3		
			U-235	0 036	0 048			0 4	0 5		
			U-238	0 062	0 106			0 7	1 2	**2.8**	
			Pu-239/240	0 582	0 089			6 6	1 0		
			Am-241	0 044	0 040			0 5	0 5		**7 1**
Wall 1	37	018 001	U-233/234	0 443	0 166	16 70	40	6 4	2 4		
			U-235	0 044	0 107			0 6	1 5		
			U-238	0 496	0 131			7 1	1 9	**14.1**	
			Pu-239/240	0 081	0 113			1 2	1 6		
			Am-241	0 061	0 041			0 9	0 6		**2.0**
Pole on Floor	38	019 001	U-233/234	0 040	0 149	9 80	40	0 3	1 3		
			U-235	0 000	0 149			0 0	1 3		
			U-238	0 161	0 149			1 4	1 3	**1 7**	
			Pu-239/240	0 250	0 142			2 1	1 2		
			Am-241	0 182	0 042			1 5	0 4		**3.6**
Floor	39	020 001	U-233/234	0 164	0 121	68 39	40	9 6	7 1		
			U-235	0 007	0 086			0 4	5 1		
			U-238	0 129	0 106			7 6	6 2	**17.7**	
			Pu-239/240	0 068	0 168			4 0	9 9		
			Am-241	0 067	0 045			3 9	2 7		**7.9**

MIN	**1.7**	**0 3**
MAX	**56.7**	**41.4**
MEAN	**11 9**	**4 8**
SD	**13.4**	**8.9**
DCGL$_W$ =	**5000**	**100**

ATTACHMENT H

Survey Unit 77934 Data Summary

SURVEY UNIT 77934 DATA

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Survey Unit 77934 Data Summary

Total Surface Activity Measurements

	Number Required	Number Obtained	
	27	27	
MIN	-3 9		dpm/100 cm^2
MAX	63 4		dpm/100 cm^2
MEAN	27 4		dpm/100 cm^2
STD DEV	17 6		dpm/100 cm^2
TRANSURANIC DCGL$_W$	100		dpm/100 cm^2

Removable Activity Measurements

	Number Required	Number Obtained	
	27	27	
MIN	-0 6		dpm/100 cm^2
MAX	3 9		dpm/100 cm^2
MEAN	0 6		dpm/100 cm^2
STD DEV	1 2		dpm/100 cm^2
TRANSURANIC DCGL$_W$	20		dpm/100 cm^2

Media Sample Activity

Media Samples	Number Required	Number Obtained
	N/A	N/A

Total Uranium Results

MIN	N/A	dpm/100 cm^2
MAX	N/A	dpm/100 cm^2
MEAN	N/A	dpm/100 cm^2
STD DEV	N/A	dpm/100 cm^2
DCGL$_W$	5000	dpm/100 cm^2

Total Transuranic Results

MIN	N/A	dpm/100 cm^2
MAX	N/A	dpm/100 cm^2
MEAN	N/A	dpm/100 cm^2
STD DEV	N/A	dpm/100 cm^2
DCGL$_W$	100	dpm/100 cm^2

Survey Unit 77934 Building 779 Total Surface Contamination Results

Total Surface Activity Survey

Meter Model	NE Electra w/ DP6 Probe			Local Area Bkgd (cpm)
Instrument #	1837	1837	N/A	3 5
Cal. Due Date	2/13/00	2/13/00	N/A	
Efficiency (c/d)	0.217	0.217	N/A	

Quality Control Survey

NE Electra w/ DP6 Probe			Local Area Bkgd (cpm)
1370	N/A	N/A	2 0
4/20/00	N/A	N/A	
0.214	N/A	N/A	

Total Surface Activity Measurements

Sample Location Number	Serial #	Date	(cpm)	MDA (dpm/100 cm²)	(dpm/100 cm²)
1	1837	11/22/99	10 0	41	29.8
2	1837	11/22/99	6 0	41	11 3
3	1837	11/23/99	6 7	41	14 6
4	1837	11/23/99	13 3	41	45 0
5	1837	11/23/99	7 3	41	17 3
6	1837	11/22/99	11.3	41	35 8
7	1837	11/22/99	8 0	41	20 6
8	1837	11/22/99	7 3	41	17 3
9	1837	11/22/99	3 3	41	-1 1
10	1837	11/22/99	9 3	41	26 6
11	1837	11/22/99	16 0	41	57 4
12	1837	11/23/99	5 3	41	8 1
13	1837	11/23/99	8 0	41	20 6
14	1837	11/22/99	10 7	41	33 0
15	1837	11/22/99	8 7	41	23 8
16	1837	11/22/99	2 7	41	-3 9
17	1837	11/22/99	12 0	41	39 0
18	1837	11/22/99	10 7	41	33 0
19	1837	11/22/99	7 3	41	17 3
20	1837	11/23/99	5 3	41	8 1
21	1837	11/23/99	10 7	41	33 0
22	1837	11/23/99	8 7	41	23 8
23	1837	11/22/99	13 3	41	45 0
24	1837	11/22/99	17.3	41	63 4
25	1837	11/23/99	6 7	41	14 6
26	1837	11/23/99	13 3	41	45 0
27	1837	11/23/99	16 7	41	60 7
				MIN	-3 9
				MAX	63 4
				MEAN	27 4
				SD	17 6
				Transuranic $DCGL_W$	100

Quality Control Measurements

Serial #	Date	(cpm)	MDA (dpm/100 cm²)	(dpm/100 cm²)
1370	11/23/99	16 7	34	66 6
1370	11/23/99	10 0	34	37.3

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Survey Unit 77934 Building 779 Smear Results

Smear Location Number	Smear Results				
	Serial Number	Date Counted	Gross (cpm)	(dpm/100 cm^2)	MDA
1	814	11/23/99	1 0	3 0	4 1
2	1160	11/23/99	0 0	-0 3	6 5
3	1407	11/23/99	0 0	-0.6	7 5
4	814	11/23/99	0 0	0 0	4 1
5	1160	11/23/99	0 5	1 2	6 5
6	1407	11/23/99	0 5	0 9	7 5
7	814	11/23/99	0 0	0 0	4 1
8	1160	11/23/99	0 0	-0 3	6 5
9	1407	11/23/99	1 0	2 4	7 5
10	814	11/23/99	0 5	1 5	4 1
11	1160	11/23/99	0 5	1 2	6 5
12	1407	11/23/99	0 0	-0 6	7 5
13	814	11/23/99	0 5	1 5	4 1
14	1160	11/23/99	0 0	-0 3	6 5
15	1407	11/23/99	0 0	-0 6	7 5
16	814	11/23/99	0 0	0 0	4 1
17	1160	11/23/99	0 0	-0 3	6 5
18	1407	11/23/99	0 0	-0 6	7 5
19	814	11/23/99	0 5	1.5	4 1
20	1160	11/23/99	0 0	-0.3	6 5
21	1407	11/23/99	0 5	0 9	7 5
22	814	11/23/99	0 0	0.0	4 1
23	1160	11/23/99	0 0	-0.3	6 5
24	1407	11/23/99	1 5	3 9	7 5
25	814	11/23/99	0 5	1 5	4 1
26	1160	11/23/99	0 5	1 2	6 5
27	1407	11/23/99	0 0	-0 6	7 5
			MIN	-0 6	
			MAX	3 9	
			MEAN	0.6	
			SD	1 2	
			Transuranic $DCGL_W$	20	

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ATTACHMENT I

Survey Unit 77935 Data Summary

SURVEY UNIT 77935 DATA

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Survey Unit 77935 Data Summary

Total Surface Activity Measurements

	Number Required	Number Obtained	
	31	31	
MIN	-2 5		dpm/100 cm^2
MAX	64 9		dpm/100 cm^2
MEAN	19 5		dpm/100 cm^2
STD DEV	13 1		dpm/100 cm^2
TRANSURANIC DCGL$_W$	100		dpm/100 cm^2

Removable Activity Measurements

	Number Required	Number Obtained	
	31	31	
MIN	-0 6		dpm/100 cm^2
MAX	2 4		dpm/100 cm^2
MEAN	0 0		dpm/100 cm^2
STD DEV	0 8		dpm/100 cm^2
TRANSURANIC DCGL$_W$	20		dpm/100 cm^2

Media Sample Activity

	Number Required	Number Obtained
Media Samples	N/A	N/A

Total Uranium Results

MIN	N/A	dpm/100 cm^2
MAX	N/A	dpm/100 cm^2
MEAN	N/A	dpm/100 cm^2
STD DEV	N/A	dpm/100 cm^2
DCGL$_W$	5000	dpm/100 cm^2

Total Transuranic Results

MIN	N/A	dpm/100 cm^2
MAX	N/A	dpm/100 cm^2
MEAN	N/A	dpm/100 cm^2
STD DEV	N/A	dpm/100 cm^2
DCGL$_W$	100	dpm/100 cm^2

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Survey Unit 77935 Building 779 Total Surface Contamination Results

Total Surface Activity Survey						Quality Control Survey				
Meter Model	NE Electra w/ DP6 Probe			Local Area Bkgd (cpm)		NE Electra w/ DP6 Probe			Local Area Bkgd (cpm)	
Instrument #	2374	1837	N/A	1 8		1837	N/A	N/A	2 4	
Cal. Due Date	2/29/00	2/13/00	N/A			2/13/00	N/A	N/A		
Efficiency (c/d)	0 218	0.217	N/A			0.217	N/A	N/A		
	Total Surface Activity Measurements					Quality Control Measurements				
Sample Location Number	Serial #	Date	(cpm)	MDA (dpm/100 cm²)	(dpm/100 cm²)	Serial #	Date	(cpm)	MDA (dpm/100 cm²)	(dpm/100 cm²)
1	2374	11/19/99	6 7	32	22 3					
2	2374	11/19/99	5 3	32	15 8					
3	2374	11/19/99	6 7	32	22 3					
4	2374	11/19/99	7 3	32	25 0					
5	2374	11/19/99	7 3	32	25 0					
6	1837	11/22/99	3 3	32	6 7					
7	2374	11/19/99	6 7	32	22 3					
8	2374	11/19/99	4 0	32	9 9					
9	2374	11/19/99	5 3	32	15 8					
10	2374	11/19/99	6 0	32	19 1					
11	2374	11/19/99	16 0	32	64 9	1837	11/22/99	13.3	35	50.5
12	2374	11/19/99	4 0	32	9 9					
13	1837	11/22/99	6 7	32	22 4					
14	2374	11/19/99	8 7	32	31 4					
15	2374	11/19/99	1 3	32	2 5					
16	2374	11/19/99	8 0	32	28 2					
17	2374	11/19/99	6 0	32	19 1					
18	2374	11/19/99	9 3	32	34.2					
19	2374	11/19/99	2 0	32	0 7					
20	1837	11/22/99	6 7	32	22 4					
21	2374	11/19/99	5 3	32	15 8					
22	2374	11/19/99	10 0	32	37 4	1837	11/22/99	7.3	35	22.8
23	2374	11/19/99	5 3	32	15 8					
24	2374	11/19/99	4 7	32	13 1					
25	2374	11/19/99	7 3	32	25 0					
26	1837	11/22/99	5 3	32	15 9					
27	1837	11/22/99	8 7	32	31 6					
28	2374	11/19/99	6 7	32	22 3					
29	2374	11/19/99	3 3	32	6 7					
30	2374	11/19/99	1 3	32	2 5					
31	2374	11/17/99	4.0	32	9 9					
				MIN	2.5					
				MAX	64 9					
				MEAN	19 5					
				SD	13 1					
				Transuranic $DCGL_W$	100					

Survey Unit 77935 Building 779 Smear Results

Smear Location Number	Smear Results				
	Serial Number	Date Counted	Gross (cpm)	(dpm/100 cm²)	MDA
1	814	11/19/99	0 5	0 9	7 5
2	1407	11/19/99	0 0	-0 6	7 5
3	1407	11/19/99	0 0	-0 6	7 5
4	1160	11/19/99	0 0	-0 3	6 5
5	814	11/19/99	0 0	-0 6	7 5
6	1407	11/19/99	0 0	-0 6	7 5
7	814	11/19/99	0 0	-0 6	7 5
8	1160	11/19/99	0 0	-0 3	6 5
9	814	11/19/99	0 0	-0 6	7 5
10	1407	11/19/99	0 0	-0 6	7 5
11	1407	11/19/99	0 0	-0 6	7 5
12	1407	11/19/99	0 5	0 9	7 5
13	1407	11/19/99	0 5	0 9	7 5
14	1407	11/19/99	0 0	-0 6	7 5
15	1160	11/19/99	0 5	1 2	6 5
16	1407	11/19/99	0 0	-0 6	7 5
17	814	11/19/99	1 0	2 4	7 5
18	814	11/19/99	0 0	-0 6	7 5
19	1160	11/19/99	0 0	-0 3	6 5
20	1407	11/19/99	0 0	-0 6	7 5
21	1160	11/19/99	0 0	-0 3	6 5
22	1160	11/19/99	0 0	-0 3	6 5
23	814	11/19/99	0 0	-0 6	7 5
24	1160	11/19/99	0 0	-0 3	6 5
25	814	11/19/99	0 5	0 9	7 5
26	1407	11/19/99	0 5	0 9	7 5
27	1407	11/19/99	0 0	-0 6	7 5
28	1160	11/19/99	0 0	-0 3	6 5
29	1160	11/19/99	0 5	1 2	6 5
30	814	11/19/99	0 5	0 9	7 5
31	1407	11/19/99	0 0	-0 6	7 5
			MIN	-0 6	
			MAX	2 4	
			MEAN	0 0	
			SD	0 8	
			Transuranic $DCGL_W$	20	

ATTACHMENT J

Survey Unit 77936 Data Summary

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SURVEY UNIT 77936 DATA

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Survey Unit 77936 Data Summary

Total Surface Activity Measurements

	15	15	
	Number Required	Number Obtained	
MIN	7 5		dpm/100 cm^2
MAX	38 7		dpm/100 cm^2
MEAN	19 6		dpm/100 cm^2
STD DEV	7 9		dpm/100 cm^2
TRANSURANIC DCGL$_W$	100		dpm/100 cm^2

Removable Activity Measurements

	15	15	
	Number Required	Number Obtained	
MIN	-1 2		dpm/100 cm^2
MAX	1 5		dpm/100 cm^2
MEAN	0 1		dpm/100 cm^2
STD DEV	0 9		dpm/100 cm^2
TRANSURANIC DCGL$_W$	20		dpm/100 cm^2

Media Sample Activity

Media Samples	15	15
	Number Required	Number Obtained

Total Uranium Results

MIN	5 9	dpm/100 cm^2
MAX	52 0	dpm/100 cm^2
MEAN	18 1	dpm/100 cm^2
STD DEV	14 2	dpm/100 cm^2
DCGL$_W$	5000	dpm/100 cm^2

Total Transuranic Results

MIN	0 3	dpm/100 cm^2
MAX	32 8	dpm/100 cm^2
MEAN	3 6	dpm/100 cm^2
STD DEV	8 2	dpm/100 cm^2
DCGL$_W$	100	dpm/100 cm^2

Survey Unit 77936 Building 779 Total Surface Contamination Results

Total Surface Activity Survey

				Local Area Bkgd (cpm)
Meter Model	NE Electra w/ DP6 Probe			2 4
Instrument #	2349	N/A	N/A	
Cal. Due Date	12/24/99	N/A	N/A	
Efficiency (c/d)	0 215	N/A	N/A	

Quality Control Survey

			Local Area Bkgd (cpm)
NE Electra w/ DP6 Probe			1 4
2374	N/A	N/A	
2/29/00	N/A	N/A	
0 218	N/A	N/A	

Total Surface Activity Measurements

Sample Location Number	Serial #	Date	(cpm)	MDA (dpm/100 cm²)	(dpm/100 cm²)
1	2349	11/20/99	5 3	36	13 5
2	2349	11/20/99	7 3	36	22 8
3	2349	11/20/99	6 0	36	16 8
4	2349	11/20/99	7 3	36	22 8
5	2349	11/20/99	6 0	36	16 8
6	2349	11/20/99	10 7	36	38 7
7					
8	2349	11/20/99	9 3	36	32 2
9	2349	11/20/99	7 3	36	22 8
10	2349	11/20/99	5 3	36	13 5
11	2349	11/20/99	6 0	36	16 8
12	2349	11/20/99	7 3	36	22 8
13	2349	11/20/99	6 0	36	16 8
14	2349	11/20/99	5 3	36	13 5
15	2349	11/20/99	4 0	36	7 5
16	2349	11/20/99	6 0	36	16 8
				MIN	7 5
				MAX	38 7
				MEAN	19 6
				SD	7 9
				Transuranic $DCGL_W$	100

Quality Control Measurements

Serial #	Date	(cpm)	MDA (dpm/100 cm²)	(dpm/100 cm²)
2374	11/20/99	3.3	29	8 7
2374	11/20/99	9.3	29	36.2

NOTE The location #7 wall was removed AFTER sample collection during D&D

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Survey Unit 77936 Building 779 Smear Results

Smear Location Number	Smear Results				
	Serial Number	Date Counted	Gross (cpm)	(dpm/100 cm^2)	MDA
1	814	11/20/99	0 5	1 5	4 1
2	1160	11/20/99	0 5	0 3	8 9
3	140	11/20/99	0 0	0 0	4 1
4	814	11/20/99	0 5	1 5	4 1
5	1160	11/20/99	0 0	-1 2	8 9
6	140	11/20/99	0 0	0 0	4 1
7					
8	814	11/20/99	0 0	0 0	4 1
9	1160	11/20/99	0 5	0 3	8 9
10	140	11/20/99	0 5	1 5	4 1
11	814	11/20/99	0 0	0 0	4 1
12	1160	11/20/99	0 0	-1 2	8 9
13	140	11/20/99	0 0	0 0	4 1
14	814	11/20/99	0 0	0 0	4 1
15	1160	11/20/99	0 0	-1 2	8 9
16	140	11/20/99	0 0	0 0	4 1
			MIN	-1 2	
			MAX	1 5	
			MEAN	0 1	
			SD	0 9	
			Transuranic $DCGL_W$	20	

NOTE The location #7 wall was removed AFTER sample collection during D&D

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Survey Unit 77936 Building 779 Paint/Solid Media Sample Results

LOCATION DESCRIPTION	SAMPLE LOCATION NUMBER	SITE SAMPLE ID	NUCLIDE	pCi/g	MDA (pCi/g)	WEIGHT (g)	SURFACE AREA (in^2)	INDIVIDUAL NUCLIDE ($dpm/100cm^2$)	ESTIMATED MDA ($dpm/100cm^2$)	URANIUM TOTAL ($dpm/100cm^2$) $DCGL_W$=5000	TRANSURANIC TOTAL ($dpm/100cm^2$) $DCGL_W$=100
Room 224, Wall 2	1	001 001	U-233/234	0 441	0 083	14 66	40	5 6	1 0		
			U-235	0 072	0 049			0 9	0 6		
			U-238	0 285	0 070			3 6	0 9	10 1	
			Pu-239/240	0 181	0 101			2 3	1 3		
			Am-241	0 130	0 088			1 6	1 1		3 9
Room 226, Wall 2	2	002 001	U-233/234	0 494	0 039	13 33	40	5 7	0 4		
			U-235	0 054	0 049			0 6	0 6		
			U-238	0 283	0 069			3 2	0 8	9 5	
			Pu-239/240	0 093	0 101			1 1	1 2		
			Am-241	0 000	0 071			0 0	0 8		1 1
Room 226, Ceiling	3	003 001	U-233/234	0 672	0 040	7 79	40	4 5	0 3		
			U-235	0 072	0 049			0 5	0 3		
			U-238	0 721	0 070			4 8	0 5	9 8	
			Pu-239/240	0 020	0 095			0 1	0 6		
			Am-241	0 022	0 059			0 1	0 4		0 3
Room 226, Ceiling	4	004 001	U-233/234	0 514	0 045	7 14	40	3 2	0 3		
			U-235	0 061	0 055			0 4	0 3		
			U-238	0 390	0 079			2 4	0 5	5 9	
			Pu-239/240	0 017	0 135			0 1	0 8		
			Am-241	0 024	0 065			0 1	0 4		0 3
Room 224, Ceiling	5	005 001	U-233/234	0 719	0 038	15 36	40	9 5	0 5		
			U-235	0 000	0 047			0 0	0 6		
			U-238	0 648	0 079			8 6	1 0	18 1	
			Pu-239/240	0 035	0 091			0 5	1 2		
			Am-241	0 036	0 048			0 5	0 6		0 9
Room 224, Floor	6	006 001	U-233/234	0 306	0 078	8 95	40	2 4	0 6		
			U-235	0 051	0 046			0 4	0 4		
			U-238	0 442	0 078			3 4	0 6	6 2	
			Pu-239/240	0 040	0 102			0 3	0 8		
			Am-241	0 000	0 086			0 0	0 7		0 3
Room 224, Wall 3	7	007 001	U-233/234	0 660	0 079	39 88	40	22 6	2 7		
			U-235	0 097	0 083			3 3	2 8		
			U-238	0 760	0 067			26 1	2 3	52 0	
			Pu-239/240	0 882	0 064			30 3	2 2		
			Am-241	0 075	0 051			2 6	1 7		32 8

Survey Unit 77936 Building 779 Paint/Solid Media Sample Results

LOCATION DESCRIPTION	SAMPLE LOCATION NUMBER	SITE SAMPLE ID	NUCLIDE	pCi/g	MDA (pCi/g)	WEIGHT (g)	SURFACE AREA (in^2)	INDIVIDUAL NUCLIDE ($dpm/100cm^2$)	ESTIMATED MDA ($dpm/100cm^2$)	URANIUM TOTAL ($dpm/100cm^2$) $DCGL_W$=5000	TRANSURANIC TOTAL ($dpm/100cm^2$) $DCGL_W$=100
Room 226, Wall 2	8	008 001	U-233/234	0 536	0 042	17 03	40	7 9	0 6		
			U-235	0 019	0 051			0 3	0 7		
			U-238	0 458	0 041			6 7	0 6	14 8	
			Pu-239/240	0 110	0 120			1 6	1 8		
			Am-241	0 024	0 112			0 4	1 6		2 0
Room 226, Wall 6	9	009 001	U-233/234	0 452	0 037	15 02	40	5 8	0 5		
			U-235	0 051	0 046			0 7	0 6		
			U-238	0 445	0 065			5 7	0 8	12 2	
			Pu-239/240	0 028	0 136			0 4	1 8		
			Am-241	0 082	0 056			1 1	0 7		1 4
Room 224, Wall 4	10	010 001	U-233/234	0 409	0 037	12 56	40	4 4	0 4		
			U-235	0 017	0 046			0 2	0 5		
			U-238	0 418	0 086			4 5	0 9	9 1	
			Pu-239/240	0 020	0 093			0 2	1 0		
			Am-241	0 026	0 071			0 3	0 8		0 5
Room 226, Wall 1	11	011 001	U-233/234	0 538	0 047	48 01	40	22 2	1 9		
			U-235	0 043	0 058			1 8	2 4		
			U-238	0 598	0 083			24 7	3 4	48 7	
			Pu-239/240	0 089	0 060			3 7	2 5		
			Am-241	0 032	0 043			1 3	1 8		5 0
Room 226, Wall 1	12	012 001	U-233/234	0 450	0 051	20 09	40	7 8	0 9		
			U-235	0 023	0 063			0 4	1 1		
			U-238	0 645	0 089			11 1	1 5	19 3	
			Pu-239/240	0 031	0 092			0 5	1 6		
			Am-241	0 000	0 056			0 0	1 0		0 5
Room 226, Wall 7	13	013 001	U-233/234	0 466	0 047	17 71	40	7 1	0 7		
			U-235	0 043	0 058			0 7	0 9		
			U-238	0 330	0 097			5 0	1 5	12 8	
			Pu-239/240	0 040	0 121			0 6	1 8		
			Am-241	0 049	0 066			0 7	1 0		1 4
Room 226, Wall 7	14	014 001	U-233/234	0 413	0 105	19 45	40	6 9	1 8		
			U-235	0 069	0 062			1 2	1 0		
			U-238	0 467	0 105			7 8	1 8	15 9	
			Pu-239/240	0 100	0 104			1 7	1 7		
			Am-241	0 016	0 044			0 3	0 7		1 9

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Survey Unit 77936 Building 779 Paint/Solid Media Sample Results

LOCATION DESCRIPTION	SAMPLE LOCATION NUMBER	SITE SAMPLE ID	NUCLIDE	pCi/g	MDA (pCi/g)	WEIGHT (g)	SURFACE AREA (in^2)	INDIVIDUAL NUCLIDE ($dpm/100cm^2$)	ESTIMATED MDA ($dpm/100cm^2$)	URANIUM TOTAL ($dpm/100cm^2$) $DCGL_W$=5000	TRANSURANIC TOTAL ($dpm/100cm^2$) $DCGL_W$=100
Room 226, Wall 1	15	015 001	U-233/234	0 825	0 097	21 77	40	15 5	1 8		
			U-235	0 013	0 101			0 2	1 9		
			U-238	0 590	0 082			11 0	1 5	26 7	
			Pu-239/240	0 039	0 053			0 7	1 0		
			Am-241	0 047	0 064			0 9	1 2		1 6

MIN	5 9	0 3
MAX	52 0	32 8
MEAN	18 1	3 6
SD	14 2	8 2
$DCGL_W$ =	5000	100

ATTACHMENT K

Survey Unit 77937 Data Summary

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SURVEY UNIT 77937 DATA

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Survey Unit 77937 Data Summary

Total Surface Activity Measurements

	Number Required	Number Obtained	
	36	36	
MIN	1 4		dpm/100 cm^2
MAX	62 8		dpm/100 cm^2
MEAN	16 7		dpm/100 cm^2
STD DEV	10 3		dpm/100 cm^2
TRANSURANIC DCGL$_W$	100		dpm/100 cm^2

Removable Activity Measurements

	Number Required	Number Obtained	
	36	36	
MIN	-1 2		dpm/100 cm^2
MAX	3 3		dpm/100 cm^2
MEAN	0 2		dpm/100 cm^2
STD DEV	1 2		dpm/100 cm^2
TRANSURANIC DCGL$_W$	20		dpm/100 cm^2

Media Sample Activity

	Number Required	Number Obtained
Media Samples	N/A	N/A

Total Uranium Results

MIN	N/A	dpm/100 cm^2
MAX	N/A	dpm/100 cm^2
MEAN	N/A	dpm/100 cm^2
STD DEV	N/A	dpm/100 cm^2
DCGL$_W$	N/A	dpm/100 cm^2

Total Transuranic Results

MIN	N/A	dpm/100 cm^2
MAX	N/A	dpm/100 cm^2
MEAN	N/A	dpm/100 cm^2
STD DEV	N/A	dpm/100 cm^2
DCGL$_W$	N/A	dpm/100 cm^2

Survey Unit 77937 Building 779 Total Surface Contamination Results

Total Surface Activity Survey						Quality Control Survey				
Meter Model	NE Electra w/ DP6 Probe			Local Area Bkgd (cpm)		NE Electra w/ DP6 Probe			Local Area Bkgd (cpm)	
Instrument #	2376	N/A	N/A	2 4		2364	N/A	N/A	1 7	
Cal. Due Date	3/23/00	N/A	N/A			2/29/00	N/A	N/A		
Efficiency (c/d)	0 205	N/A	N/A			0 227	N/A	N/A		
	Total Surface Activity Measurements					Quality Control Measurements				
Sample Location Number	Serial #	Date	(cpm)	MDA (dpm/100 cm²)	(dpm/100 cm²)	Serial #	Date	(cpm)	MDA (dpm/100 cm²)	(dpm/100 cm²)
1	2376	11/30/99	5 3	38	14 1					
2	2376	11/30/99	5 3	38	14 1					
3	2376	11/30/99	4 7	38	11 1					
4	2376	11/30/99	5 3	38	14 1					
5	2376	11/30/99	4 7	38	11 1					
6	2376	11/30/99	6 0	38	17 5					
7	2376	11/30/99	6 7	38	20 9					
8	2376	11/30/99	5 3	38	14 1					
9	2376	11/30/99	8 7	38	30 6	2364	12/01/99	7 3	30	24 7
10	2376	11/30/99	6 7	38	20 9					
11	2376	11/30/99	5 3	38	14 1					
12	2376	11/30/99	8 0	38	27 2					
13	2376	11/30/99	15 3	38	62 8	2364	12/01/99	4 0	30	10 1
14	2376	11/30/99	4 7	38	11 1					
15	2376	11/30/99	3 3	38	4 3					
16	2376	11/30/99	4 7	38	11 1					
17	2376	11/30/99	5 3	38	14 1					
18	2376	11/30/99	4 7	38	11 1					
19	2376	11/30/99	4 7	38	11 1					
20	2376	11/30/99	7 3	38	23 8					
21	2376	11/30/99	4 7	38	11 1					
22	2376	11/30/99	6 7	38	20 9					
23	2376	11/30/99	5 3	38	14 1					
24	2376	11/30/99	2 7	38	1 4					
25	2376	11/30/99	4 7	38	11 1					
26	2376	11/30/99	8 0	38	27 2					
27	2376	11/30/99	5 3	38	14 1					
28	2376	11/30/99	6 0	38	17 5					
29	2376	11/30/99	6 0	38	17 5					
30	2376	11/30/99	6 0	38	17 5					
31	2376	11/30/99	4 7	38	11 1					
32	2376	11/30/99	5 3	38	14 1					
33	2376	11/30/99	4 7	38	11 1					
34	2376	11/30/99	8 7	38	30 6					
35	2376	11/30/99	5 3	38	14 1					
36	2376	11/30/99	4 0	38	7 7					
				MIN	1 4					
				MAX	62 8					
				MEAN	16 7					
				SD	10 3					
				Transuranic $DCGL_W$	100					

Survey Unit 77937 Building 779 Smear Results

Smear Location Number	Smear Results				
	Serial Number	Date Counted	Gross (cpm)	(dpm/100 cm^2)	MDA
1	814	12/1/99	0 0	-0 6	7 5
2	1160	12/1/99	0 5	0 3	8 9
3	1407	12/1/99	0 0	-0 6	7 5
4	814	12/1/99	0,0	-0 6	7 5
5	1160	12/1/99	0 0	-1 2	8 9
6	1407	12/1/99	0 0	-0 6	7 5
7	814	12/1/99	0 0	-0 6	7 5
8	1160	12/1/99	0 0	-1 2	8 9
9	1407	12/1/99	0 0	-0 6	7 5
10	814	12/1/99	0 0	-0 6	7 5
11	1160	12/1/99	0 0	-1 2	8 9
12	1407	12/1/99	0 0	-0 6	7 5
13	814	12/1/99	0 0	-0 6	7 5
14	1160	12/1/99	0 5	0 3	8 9
15	1407	12/1/99	0 5	0 9	7 5
16	814	12/1/99	0 5	0 9	7 5
17	1160	12/1/99	1 0	1 8	8 9
18	1407	12/1/99	0 5	0 9	7 5
19	814	12/1/99	1 0	2 4	7 5
20	1160	12/1/99	0 5	0 3	8 9
21	1407	12/1/99	0 5	0 9	7 5
22	814	12/1/99	0 0	-0 6	7 5
23	1160	12/1/99	0 0	-1 2	8 9
24	1407	12/1/99	0 5	0 9	7 5
25	814	12/1/99	1 0	2 4	7 5
26	1160	12/1/99	0 5	0 3	8 9
27	1407	12/1/99	0 5	0 9	7 5
28	814	12/1/99	0 0	-0 6	7 5
29	1160	12/1/99	0 5	0 3	8 9
30	1407	12/1/99	1 0	2 4	7 5
31	814	12/1/99	0 0	-0 6	7 5
32	1160	12/1/99	1 5	3 3	8 9
33	1407	12/1/99	0 5	0 9	7 5
34	814	12/1/99	0 5	0 9	7 5
35	1160	12/1/99	0 0	-1 2	8 9
36	1407	12/1/99	0 0	-0 6	7 5
			MIN	-1 2	
			MAX	3 3	
			MEAN	0 2	
			SD	1 2	
			Transuranic $DCGL_W$	20	

ATTACHMENT L

Survey Unit 77938 Data Summary

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SURVEY UNIT 77938 DATA

Survey Unit 77938 Data Summary

Total Surface Activity Measurements

	15	18	
	Number Required	Number Obtained	
MIN	2 3		dpm/100 cm^2
MAX	49 9		dpm/100 cm^2
MEAN	19 8		dpm/100 cm^2
STD DEV	13 0		dpm/100 cm^2
TRANSURANIC DCGL$_W$	100		dpm/100 cm^2

Removable Activity Measurements

	15	18	
	Number Required	Number Obtained	
MIN	-0 6		dpm/100 cm^2
MAX	2 7		dpm/100 cm^2
MEAN	0 7		dpm/100 cm^2
STD DEV	1 2		dpm/100 cm^2
TRANSURANIC DCGL$_W$	20		dpm/100 cm^2

Media Sample Activity

	N/A	N/A
Media Samples	Number Required	Number Obtained

Total Uranium Results

MIN	N/A	dpm/100 cm^2
MAX	N/A	dpm/100 cm^2
MEAN	N/A	dpm/100 cm^2
STD DEV	N/A	dpm/100 cm^2
DCGL$_W$	N/A	dpm/100 cm^2

Total Transuranic Results

MIN	N/A	dpm/100 cm^2
MAX	N/A	dpm/100 cm^2
MEAN	N/A	dpm/100 cm^2
STD DEV	N/A	dpm/100 cm^2
DCGL$_W$	N/A	dpm/100 cm^2

Survey Unit 77938 Building 779 Total Surface Contamination Results

Total Surface Activity Survey						Quality Control Survey				
Meter Model	NE Electra w/ DP6 Probe			Local Area Bkgd (cpm)		NE Electra w/ DP6 Probe			Local Area Bkgd (cpm)	
Instrument #	2378	N/A	N/A	1 5		2348	N/A	N/A	2 7	
Cal. Due Date	5/3/00	N/A	N/A			3/21/00	N/A	N/A		
Efficiency (c/d)	0 225	N/A	N/A			0 213	N/A	N/A		
	Total Surface Activity Measurements					Quality Control Measurements				
Sample Location Number	Serial #	Date	(cpm)	MDA (dpm/100 cm²)	(dpm/100 cm²)	Serial #	Date	(cpm)	MDA (dpm/100 cm²)	(dpm/100 cm²)
1	2378	11/30/99	2 0	29	2 3					
2	2378	11/30/99	3 3	29	8 1					
3	2378	11/30/99	6 0	29	20 1					
4	2378	11/30/99	7 3	29	25 9					
5	2378	11/30/99	3 3	29	8 1					
6	2378	11/30/99	12 7	29	49 9	2348	11/30/99	10 7	38	37 6
7	2378	11/30/99	10 7	29	41 0	2348	11/30/99	9.3	38	31 0
8	2378	11/30/99	4 7	29	14 3					
9	2378	11/30/99	4 7	29	14 3					
10	2378	11/30/99	2 7	29	5 4					
11	2378	11/30/99	8 7	29	32 1					
12	2378	11/30/99	5 3	29	17 0					
13	2378	11/30/99	10 0	29	37 9					
14	2378	11/30/99	6 7	29	23.2					
15	2378	11/30/99	4 7	29	14 3					
16	2378	11/30/99	5 3	29	17 0					
17	2378	11/30/99	4 7	29	14.3					
18	2378	11/30/99	4 0	29	11.2					
				MIN	2.3					
				MAX	49 9					
				MEAN	19 8					
				SD	13 0					
				Transuranic $DCGL_W$	100					

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Survey Unit 77938 Building 779 Smear Results

Smear Location Number	Smear Results				
	Serial Number	Date Counted	Gross (cpm)	(dpm/100 cm^2)	MDA
1	814	11/30/99	0 5	0 9	7 5
2	1160	11/30/99	0 0	-0 3	6 5
3	814	11/30/99	0 0	-0 6	7 5
4	1160	11/30/99	0 5	1 2	6 5
5	814	11/30/99	0 0	-0 6	7 5
6	1160	11/30/99	0 0	-0 3	6 5
7	814	11/30/99	0 5	0 9	7 5
8	1160	11/30/99	0 5	1 2	6 5
9	814	11/30/99	1 0	2 4	7 5
10	1160	11/30/99	0 5	1 2	6 5
11	814	11/30/99	1 0	2 4	7 5
12	1160	11/30/99	0 0	-0 3	6 5
13	814	11/30/99	1 0	2 4	7 5
14	1160	11/30/99	0 0	-0 3	6 5
15	814	11/30/99	0 0	-0 6	7 5
16	1160	11/30/99	0 0	-0 3	6 5
17	814	11/30/99	0 5	0 9	7 5
18	1160	11/30/99	1 0	2 7	6 5
			MIN	-0 6	
			MAX	2 7	
			MEAN	0 7	
			SD	1 2	
			Transuranic $DCGL_W$	20	

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ATTACHMENT M

Survey Unit 77939 Data Summary

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SURVEY UNIT 77939 DATA

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Survey Unit 77939 Data Summary

Total Surface Activity Measurements

	15	22	
	Number Required	Number Obtained	
MIN	-6 2		dpm/100 cm^2
MAX	46 7		dpm/100 cm^2
MEAN	13 4		dpm/100 cm^2
STD DEV	15 0		dpm/100 cm^2
TRANSURANIC DCGL$_W$	100		dpm/100 cm^2

Removable Activity Measurements

	15	22	
	Number Required	Number Obtained	
MIN	-0 6		dpm/100 cm^2
MAX	3 0		dpm/100 cm^2
MEAN	0 2		dpm/100 cm^2
STD DEV	1 1		dpm/100 cm^2
TRANSURANIC DCGL$_W$	20		dpm/100 cm^2

Media Sample Activity

Media Samples	15	15
	Number Required	Number Obtained

Total Uranium Results

MIN	3 5	dpm/100 cm^2
MAX	91 2	dpm/100 cm^2
MEAN	40 4	dpm/100 cm^2
STD DEV	25 2	dpm/100 cm^2
DCGL$_W$	5000	dpm/100 cm^2

Total Transuranic Results

MIN	-0 3	dpm/100 cm^2
MAX	10 2	dpm/100 cm^2
MEAN	2 6	dpm/100 cm^2
STD DEV	2 8	dpm/100 cm^2
DCGL$_W$	100	dpm/100 cm^2

Survey Unit 77939 Building 779 Total Surface Contamination Results

Total Surface Activity Survey						Quality Control Survey				
Meter Model	NE Electra w/ DP6 Probe			Local Area Bkgd (cpm)		NE Electra w/ DP6 Probe			Local Area Bkgd (cpm)	
Instrument #	1834	1837	N/A	4 0		2374	N/A	N/A	2 4	
Cal. Due Date	2/4/00	2/13/00	N/A			2/2[illegible]/00	N/A	N/A		
Efficiency (c/d)	0.211	0 214	N/A			0 218	N/A	N/A		
	Total Surface Activity Measurements					Quality Control Measurements				
Sample Location Number	Serial #	Date	(cpm)	MDA (dpm/100 cm²)	(dpm/100 cm²)	Serial #	Date	(cpm)	MDA (dpm/100 cm²)	(dpm/100 cm²)
1	1834	10/08/99	2 7	45	-6.2					
2	1837	10/07/99	2 7	44	-6 1					
3	1834	10/08/99	4 7	45	3 3					
4	1837	10/07/99	6 0	44	9 3					
5	1837	10/07/99	4 7	44	3.2					
6	1834	10/08/99	2 7	45	-6.2					
7	1837	10/07/99	2 7	44	-6 1					
8	1837	10/07/99	10 7	44	31 3					
9	1837	10/07/99	7 3	44	15.4					
10	1837	10/07/99	6 7	44	12 6					
11	1837	10/07/99	4 0	44	0 0					
12	1837	10/07/99	4 7	44	3.2					
13	1837	10/07/99	7 3	44	15.4					
14	1837	10/07/99	8 0	44	18 7					
15	1837	10/07/99	6 7	44	12 6					
16	1837	10/07/99	6 0	44	9.3					
17	1837	10/07/99	14 0	44	46 7	2374	11/08/99	8.0	35	28.7
18	1834	10/08/99	10 0	45	28 5					
19	1834	10/08/99	8 7	45	22 3					
20	1834	10/08/99	8 7	45	22 3					
21	1834	10/08/99	10 0	45	28 5					
22	1834	10/08/99	12 0	45	37 9	2374	11/08/99	8 7	35	28.9
				MIN	-6 2					
				MAX	46 7					
				MEAN	13.4					
				SD	15 0					
				Transuranic $DCGL_W$	100					

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Survey Unit 77939 Building 779 Smear Results

Smear Location Number	Smear Results				
	Serial Number	Date Counted	Gross (cpm)	(dpm/100 cm^2)	MDA
1	814	10/8/99	0 0	-0 6	7 5
2	1407	10/8/99	0 0	0 0	4 1
3	814	10/8/99	0 0	-0.6	7 5
4	1407	10/8/99	0 0	0 0	4 1
5	814	10/8/99	0 0	-0 6	7 5
6	1407	10/8/99	0 5	1 5	4 1
7	814	10/8/99	0 5	0 9	7 5
8	1407	10/8/99	0 0	0 0	4 1
9	814	10/8/99	0 0	-0 6	7 5
10	1407	10/8/99	0 0	0 0	4 1
11	814	10/8/99	0 0	-0 6	7 5
12	1407	10/8/99	0 5	1.5	4 1
13	814	10/8/99	0 0	-0 6	7 5
14	1407	10/8/99	0 0	0 0	4 1
15	814	10/8/99	1 0	2 4	7 5
16	1407	10/8/99	0 0	0 0	4 1
17	814	10/8/99	0 0	-0 6	7 5
18	1407	10/8/99	0 0	0 0	4 1
19	814	10/8/99	0 0	-0 6	7 5
20	1407	10/8/99	1 0	3 0	4 1
21	814	10/8/99	0 0	-0 6	7 5
22	1407	10/8/99	0 5	1 5	4 1
			MIN	-0 6	
			MAX	3 0	
			MEAN	0 2	
			SD	1 1	
			Transuranic DCGL$_W$	20	

Survey Unit 77939 Building 779 Paint/Solid Media Sample Results

LOCATION DESCRIPTION	SAMPLE LOCATION NUMBER	SITE SAMPLE ID	NUCLIDE	pCi/g	MDA (pCi/g)	WEIGHT (g)	SURFACE AREA (in²)	INDIVIDUAL NUCLIDE (dpm/100cm²)	ESTIMATED MDA (dpm/100cm²)	URANIUM TOTAL (dpm/100cm²) DCGL$_W$=5000	TRANSURANIC TOTAL (dpm/100cm²) DCGL$_W$=100
Room 103 Wall	1	001 001	U-233/234	0 380	0 049	56 65	40	18 5	2 4		
			U-235	0 179	0 061			8 7	3 0		
			U-238	0 428	0 086			20 9	4 2	48.1	
			Pu-239/240	0 000	0 058			0 0	2 8		
			Am-241	0 018	0 050			0 9	2 4		0.9
Room 103 Floor	2	002 001	U-233/234	0 950	0 049	14 37	40	11 7	0 6		
			U-235	0 133	0 080			1 6	1 0		
			U-238	1 060	0 101			13 1	1 2	26.5	
			Pu-239/240	0 332	0 053			4 1	0 7		
			Am-241	0 061	0 086			0 8	1 1		4.9
Room 120 Wall	3	003 001	U-233/234	0 801	0 110	14 37	40	9 9	1 4		
			U-235	0 120	0 065			1 5	0 8		
			U-238	1 090	0 109			13 5	1 3	24.9	
			Pu-239/240	0 151	0 084			1 9	1 0		
			Am-241	0 095	0 051			1 2	0 6		3.0
Room 103 Floor	4	004 001	U-233/234	1 240	0 108	8 66	40	9 2	0 8		
			U-235	0 244	0 110			1 8	0 8		
			U-238	1 290	0 089			9 6	0 7	20.7	
			Pu-239/240	0 738	0 089			5 5	0 7		
			Am-241	0 134	0 052			1 0	0 4		6.5
Room 103 Wall	5	005 001	U-233/234	0 870	0 046	41 04	40	30 7	1 6		
			U-235	0 041	0 056			1 4	2 0		
			U-238	0 950	0 045			33 5	1 6	65.7	
			Pu-239/240	-0 008	0 093			-0 3	3 3		
			Am-241	0 000	0 058			0 0	2 0		-0.3
Room 103A Wall	6	006 001	U-233/234	1 090	0 047	55 89	40	52 4	2 3		
			U-235	0 043	0 058			2 1	2 8		
			U-238	0 750	0 082			36 1	3 9	90.5	
			Pu-239/240	0 000	0 060			0 0	2 9		
			Am-241	0 058	0 050			2 8	2 4		2.8
Room 103A Wall	7	007 001	U-233/234	0 642	0 048	37 96	40	21 0	1 6		
			U-235	0 198	0 060			6 5	2 0		
			U-238	0 370	0 112			12 1	3 7	39.5	
			Pu-239/240	0 037	0 051			1 2	1 7		
			Am-241	0 000	0 058			0 0	1 9		1.2

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Survey Unit 77939 Building 779 Paint/Solid Media Sample Results

LOCATION DESCRIPTION	SAMPLE LOCATION NUMBER	SITE SAMPLE ID	NUCLIDE	pCi/g	MDA (pCi/g)	WEIGHT (g)	SURFACE AREA (in^2)	INDIVIDUAL NUCLIDE ($dpm/100cm^2$)	ESTIMATED MDA ($dpm/100cm^2$)	URANIUM TOTAL ($dpm/100cm^2$) $DCGL_W$=5000	TRANSURANIC TOTAL ($dpm/100cm^2$) $DCGL_W$=100
Room 121 Wall	8	008 001	U-233/234	1 010	0 087	9 96	40	8 7	0 7		
			U-235	0 090	0 061			0 8	0 5		
			U-238	1 180	0 049			10 1	0 4	19 5	
			Pu-239/240	0 097	0 052			0 8	0 4		
			Am-241	0 065	0 116			0 6	1 0		1.4
Room 121 Ceiling	9	009 001	U-233/234	0 624	0 100	17 14	40	9 2	1 5		
			U-235	0 044	0 059			0 6	0 9		
			U-238	0 646	0 085			9 5	1 3	19.4	
			Pu-239/240	0 021	0 056			0 3	0 8		
			Am-241	0 023	0 061			0 3	0 9		0.6
Room 121 Wall	10	010 001	U-233/234	0 526	0 085	29 97	40	13 6	2 2		
			U-235	0 088	0 059			2 3	1 5		
			U-238	0 688	0 085			17 7	2 2	33 6	
			Pu-239/240	0 022	0 059			0 6	1 5		
			Am-241	0 032	0 087			0 8	2 2		1 4
Room 121 Floor	11	011 001	U-233/234	0 244	0 051	5 57	40	1 2	0 2		
			U-235	0 023	0 063			0 1	0 3		
			U-238	0 461	0 090			2 2	0 4	3 5	
			Pu-239/240	0 435	0 066			2 1	0 3		
			Am-241	0 439	0 062			2 1	0 3		4.2
Room 121 Wall	12	012 001	U-233/234	0 231	0 048	222 80	40	44 3	9 2		
			U-235	0 022	0 059			4 2	11 3		
			U-238	0 223	0 085			42 7	16 3	91.2	
			Pu-239/240	0 022	0 058			4 2	11 1		
			Am-241	0 031	0 042			5 9	8 0		10.2
Room 120 Wall	13	013 001	U-233/234	0 890	0 046	28 89	40	22 1	1 1		
			U-235	0 042	0 057			1 0	1 4		
			U-238	0 658	0 082			16 4	2 0	39.5	
			Pu-239/240	0 000	0 052			0 0	1 3		
			Am-241	0 000	0 048			0 0	1 2		0.0
Room 121 Wall	14	014 001	U-233/234	1 020	0 050	23 58	40	20 7	1 0		
			U-235	0 000	0 082			0 0	1 7		
			U-238	1 120	0 089			22 7	1 8	43.4	
			Pu-239/240	0 020	0 054			0 4	1 1		
			Am-241	0 087	0 045			1 8	0 9		2.2

Survey Unit 77939 Building 779 Paint/Solid Media Sample Results

LOCATION DESCRIPTION	SAMPLE LOCATION NUMBER	SITE SAMPLE ID	NUCLIDE	pCi/g	MDA (pCi/g)	WEIGHT (g)	SURFACE AREA (in²)	INDIVIDUAL NUCLIDE (dpm/100cm²)	ESTIMATED MDA (dpm/100cm²)	URANIUM TOTAL (dpm/100cm²) *DCGL$_W$=5000*	TRANSURANIC TOTAL (dpm/100cm²) *DCGL$_W$=100*
Room 120 Wall	15	015 001	U-233/234	0 757	0 055	21 60	40	14 1	1 0		
			U-235	0 101	0 068			1 9	1 3		
			U-238	1 300	0 098			24 2	1 8	**40.1**	
			Pu-239/240	0 013	0 103			0 2	1 9		
			Am-241	0 000	0 049			0 0	0 9		**0.2**

MIN	**3 5**	**-0 3**
MAX	**91 2**	**10 2**
MEAN	**40 4**	**2 6**
SD	**25 2**	**2 8**
DCGL$_W$ =	**5000**	**100**

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Survey Unit 77940 Data Summary

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SURVEY UNIT 77940 DATA

Survey Unit 77940 Data Summary

Total Surface Activity Measurements

	15	32	
	Number Required	Number Obtained	
MIN	-6 3		dpm/100 cm^2
MAX	27 8		dpm/100 cm^2
MEAN	9 0		dpm/100 cm^2
STD DEV	8 6		dpm/100 cm^2
TRANSURANIC DCGL$_W$	100		dpm/100 cm^2

Removable Activity Measurements

	15	32	
	Number Required	Number Obtained	
MIN	-1 2		dpm/100 cm^2
MAX	4 2		dpm/100 cm^2
MEAN	0 0		dpm/100 cm^2
STD DEV	1 4		dpm/100 cm^2
TRANSURANIC DCGL$_W$	20		dpm/100 cm^2

Media Sample Activity

Media Samples	15	24
	Number Required	Number Obtained

Total Uranium Results

MIN	1 0	dpm/100 cm^2
MAX	86 7	dpm/100 cm^2
MEAN	23 4	dpm/100 cm^2
STD DEV	23 1	dpm/100 cm^2
DCGL$_W$	5000	dpm/100 cm^2

Total Transuranic Results

MIN	0 0	dpm/100 cm^2
MAX	4 7	dpm/100 cm^2
MEAN	1 7	dpm/100 cm^2
STD DEV	1 3	dpm/100 cm^2
DCGL$_W$	100	dpm/100 cm^2

Survey Unit 77940 Building 779 Total Surface Contamination Results

Total Surface Activity Survey						Quality Control Survey				
Meter Model	NE Electra w/ DP6 Probe				Local Area Bkgd (cpm)	NE Electra w/ DP6 Probe			Local Area Bkgd (cpm)	
Instrument #	2373	2380	N/A	N/A	1 9	2376	N/A	N/A	3 0	
Cal Due Date	5/4/00	2/29/00	N/A	N/A		3/23/00	N/A	N/A		
Efficiency (c/d)	0 207	0 193	N/A	N/A		0 209	N/A	N/A		
	Total Surface Activity Measurements					Quality Control Measurements				
Sample Location Number	Serial #	Date	(cpm)	MDA (dpm/100 cm²)	(dpm/100 cm²)	Serial #	Date	(cpm)	MDA (dpm/100 cm²)	(dpm/100 cm²)
1	2373	12/17/99	6 7	34	23 1					
2	2373	12/17/99	4 0	34	10 0					
3	2380	12/20/99	6 0	37	21 1					
4	2373	12/17/99	3 3	34	6 7					
5	2380	12/20/99	4 7	37	14.4					
6	2380	12/20/99	4 7	37	14 4					
7	2380	12/20/99	1 3	37	-3 2					
8	2373	12/17/99	3 3	34	6 7					
9	2373	12/17/99	2 0	34	0.4					
10	2373	12/17/99	2 7	34	3 8					
11	2380	12/20/99	4 7	37	14 4					
12	2373	12/17/99	3 3	34	6 7					
13	2373	12/17/99	0 7	34	-6 9	2376	11/17/99	6 0	40	14.4
14	2373	12/17/99	4 0	34	10 0					
15	2380	12/20/99	5 3	37	17 5					
16	2373	12/17/99	1 6	34	1 6					
17										
18	2380	12/20/99	3 3	37	7 1					
19	2380	12/20/99	3 3	37	7 1					
20	2380	12/20/99	4 7	37	14.4					
21	2380	12/20/99	4 7	37	14.4					
22	2380	12/20/99	3 3	37	7 1	2376	11/17/99	4 7	40	8.1
23	2380	12/20/99	7 3	37	27.8					
24	2380	12/20/99	3 3	37	7 1					
25	2380	12/20/99	2 7	37	4 0					
26	2380	12/20/99	2 7	37	4 0					
27	2380	12/20/99	6 0	37	21 1					
28	2380	12/20/99	6 0	37	21 1					
29	2380	12/20/99	3 3	37	7 1					
30										
31	2380	12/20/99	0 7	37	-6 3					
32	2380	12/20/99	1 3	37	-3 2					
33	2380	12/20/99	4 7	37	14.4					
34	2380	12/20/99	2 7	37	4 0					
					-6 3					
					27 8					
					9 0					
					8 6					
					100					

NOTE Survey locations 17 and 30 no longer exist due to remediation activites
NOTE Post-media results are reported due to D&D work that occurred in the area following the collection of media samples

Survey Unit 77940 Building 779 Smear Results

Smear Location Number	Smear Results				
	Serial Number	Date Counted	Gross (cpm)	(dpm/100 cm^2)	MDA
1	814	12/20/99	0 0	-1 2	8 9
2	814	12/20/99	0 0	-1 2	8 9
3	814	12/20/99	0 0	-1 2	8 9
4	1160	12/20/99	0 0	-0 3	6 5
5	1160	12/20/99	0 0	-0 3	6 5
6	814	12/20/99	0 0	-1 2	8 9
7	814	12/20/99	0 5	0 3	8 9
8	1160	12/20/99	0 5	1 2	6 5
9	814	12/20/99	0 0	-1 2	8 9
10	1160	12/20/99	0 0	-0 3	6 5
11	1160	12/20/99	0 0	-0 3	6 5
12	814	12/20/99	1 0	1 8	8 9
13	814	12/20/99	0 0	-1 2	8 9
14	1160	12/20/99	0 0	-0 3	6 5
15	1160	12/20/99	0 0	-0 3	6 5
16	1160	12/20/99	0 5	1 2	6 5
17					
18	814	12/20/99	1 0	1 8	8 9
19	814	12/20/99	0 0	-1 2	8 9
20	1160	12/20/99	1 5	4 2	6 5
21	814	12/20/99	0 0	-1 2	8 9
22	814	12/20/99	0 0	-1 2	8 9
23	1160	12/20/99	0 5	1 2	6 5
24	814	12/20/99	0 0	-1 2	8 9
25	1160	12/20/99	1 0	2 7	6 5
26	1160	12/20/99	0 0	-0 3	6 5
27	814	12/20/99	0 0	-1 2	8 9
28	814	12/20/99	1 0	1 8	8 9
29	1160	12/20/99	0 0	-0 3	6 5
30					
31	814	12/20/99	0 5	0 3	8 9
32	814	12/20/99	0 0	-1 2	8 9
33	1160	12/20/99	0 0	-0 3	6 5
34	1160	12/20/99	0 5	1 2	6 5
			MIN	-1 2	
			MAX	4 2	
			MEAN	0 0	
			SD	1 4	
			Transuranic $DCGL_W$	20	

NOTE Survey locations 17 and 30 no longer exist due to remediation activites

NOTE Post-media results are reported due to D&D work that occurred in the area following the collection of media samples

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Survey Unit 77940 Building 779 Paint/Solid Media Sample Results

LOCATION DESCRIPTION	SAMPLE LOCATION NUMBER	SITE SAMPLE ID	NUCLIDE	pCi/g	MDA (pCi/g)	WEIGHT (g)	SURFACE AREA (in²)	INDIVIDUAL NUCLIDE (dpm/100cm²)	ESTIMATED MDA (dpm/100cm²)	URANIUM TOTAL (dpm/100cm²) $DCGL_W$=5000	TRANSURANIC TOTAL (dpm/100cm²) $DCGL_W$=100
Room 122 Wall	1	001 001	U-233/234	0 773	0 037	56 40	40	37 5	1 8		
			U-235	0 027	0 080			1 3	3 9		
			U-238	0 986	0 037			47 8	1 8	86.7	
			Pu-239/240	0 038	0 097			1 8	4 7		
			Am-241	0 037	0 050			1 8	2 4		3.6
Room 126 Ceiling	2	002 001	U-233/234	0 614	0 071	2 64	40	1 4	0 2		
			U-235	0 011	0 087			0 0	0 2		
			U-238	0 826	0 083			1 9	0 2	3 3	
			Pu-239/240	0 073	0 039			0 2	0 1		
			Am-241	0 038	0 051			0 1	0 1		0 3
Room 126 Wall	3	003 001	U-233/234	0 181	0 069	15 88	40	2 5	0 9		
			U-235	0 053	0 048			0 7	0 7		
			U-238	0 243	0 039			3 3	0 5	6.5	
			Pu-239/240	0 117	0 080			1 6	1 1		
			Am-241	0 053	0 072			0 7	1 0		2.3
Room 126 Wall	4	004 001	U-233/234	0 598	0 082	23 51	40	12 1	1 7		
			U-235	0 036	0 049			0 7	1 0		
			U-238	0 634	0 091			12 8	1 8	25 6	
			Pu-239/240	0 041	0 076			0 8	1 5		
			Am-241	0 000	0 071			0 0	1 4		0.8
Room 127 South Wall	5	010 001	U-233/234	0 390	0 036	9 53	40	3 2	0 3		
			U-235	0 017	0 045			0 1	0 4		
			U-238	0 495	0 036			4 1	0 3	7.4	
			Pu-239/240	0 036	0 049			0 3	0 4		
			Am-241	0 011	0 088			0 1	0 7		0.4
Room 127 West Wall	6	011 001	U-233/234	0 850	0 075	16 57	40	12 1	1 1		
			U-235	0 012	0 092			0 2	1 3		
			U-238	0 722	0 074			10 3	1 1	22.6	
			Pu-239/240	0 214	0 076			3 1	1 1		
			Am-241	0 000	0 061			0 0	0 9		3.1
Room 127 West Wall	7	012 001	U-233/234	0 864	0 074	19 13	40	14 2	1 2		
			U-235	0 064	0 044			1 1	0 7		
			U-238	0 723	0 062			11 9	1 0	27.2	
			Pu-239/240	0 171	0 086			2 8	1 4		
			Am-241	0 019	0 050			0 3	0 8		3.1

Survey Unit 77940 Building 779 Paint/Solid Media Sample Results

LOCATION DESCRIPTION	SAMPLE LOCATION NUMBER	SITE SAMPLE ID	NUCLIDE	pCi/g	MDA (pCi/g)	WEIGHT (g)	SURFACE AREA (in²)	INDIVIDUAL NUCLIDE (dpm/100cm²)	ESTIMATED MDA (dpm/100cm²)	URANIUM TOTAL (dpm/100cm²) $DCGL_W$=5000	TRANSURANIC TOTAL (dpm/100cm²) $DCGL_W$=100
Room 127 South Wall	8	013 001	U-233/234	1 110	0 068	34 83	40	33 3	2 0		
			U-235	0 035	0 047			1 0	1 4		
			U-238	1 290	0 038			38 7	1 1	**73 0**	
			Pu-239/240	0 137	0 037			4 1	1 1		
			Am-241	0 021	0 057			0 6	1 7		**4 7**
Room 127 East Wall	9	014 001	U-233/234	0 571	0 082	20 21	40	9 9	1 4		
			U-235	0 036	0 049			0 6	0 9		
			U-238	0 502	0 069			8 7	1 2	**19 3**	
			Pu-239/240	0 120	0 094			2 1	1 6		
			Am-241	0 065	0 058			1 1	1 0		**3 2**
Room 127 South Wall	10	015 001	U-233/234	0 244	0 063	16 59	40	3 5	0 9		
			U-235	0 000	0 044			0 0	0 6		
			U-238	0 464	0 063			6 6	0 9	**10 1**	
			Pu-239/240	0 089	0 065			1 3	0 9		
			Am-241	0 081	0 044			1 2	0 6		**2 4**
Room 142, South Wall	11	001 001	U-233/234	1 030	0 077	35 21	40	31 2	2 3		
			U-235	0 060	0 054			1 8	1 6		
			U-238	0 910	0 077			27 6	2 3	**60 6**	
			Pu-239/240	0 083	0 106			2 5	3 2		
			Am-241	0 017	0 047			0 5	1 4		**3.0**
Room 142, West Wall	12	002 001	U-233/234	0 517	0 073	56 70	40	25 2	3 6		
			U-235	0 000	0 043			0 0	2 1		
			U-238	0 392	0 061			19 1	3 0	**44 3**	
			Pu-239/240	0 036	0 067			1 8	3 3		
			Am-241	0 000	0 053			0 0	2 6		**1 8**
Room 142, West Wall	13	005 001	U-233/234	0 149	0 067	4 56	40	0 6	0 3		
			U-235	0 017	0 047			0 1	0 2		
			U-238	0 216	0 067			0 8	0 3	**1 5**	
			Pu-239/240	0 036	0 049			0 1	0 2		
			Am-241	0 116	0 078			0 5	0 3		**0 6**
Room 142, South Wall	14	006 001	U-233/234	1 210	0 036	15 73	40	16 4	0 5		
			U-235	0 099	0 045			1 3	0 6		
			U-238	1 240	0 036			16 8	0 5	**34.5**	
			Pu-239/240	0 153	0 077			2 1	1 0		
			Am-241	0 000	0 050			0 0	0 7		**2.1**

Survey Unit 77940 Building 779 Paint/Solid Media Sample Results

LOCATION DESCRIPTION	SAMPLE LOCATION NUMBER	SITE SAMPLE ID	NUCLIDE	pCi/g	MDA (pCi/g)	WEIGHT (g)	SURFACE AREA (in^2)	INDIVIDUAL NUCLIDE (dpm/100cm^2)	ESTIMATED MDA (dpm/100cm^2)	URANIUM TOTAL (dpm/100cm^2) $DCGL_W$=5000	TRANSURANIC TOTAL (dpm/100cm^2) $DCGL_W$=100
Room 142, North Wall	15	007 001	U-233/234	0 454	0 036	34 51	40	13 5	1 1		
			U-235	0 033	0 045			1 0	1 3		
			U-238	0 514	0 064			15 3	1 9	**29 7**	
			Pu-239/240	0 004	0 104			0 1	3 1		
			Am-241	0 035	0 048			1 0	1 4		**1.2**
Room 142, West Wall	16	008 001	U-233/234	0 412	0 038	1 76	40	0 6	0 1		
			U-235	0 035	0 047			0 1	0 1		
			U-238	0 215	0 080			0 3	0 1	**1 0**	
			Pu-239/240	0 225	0 038			0 3	0 1		
			Am-241	0 000	0 060			0 0	0 1		**0 3**
Room 142, East Wall	17	009 001	U-233/234	0 510	0 036	28 75	40	12 6	0 9		
			U-235	-0 007	0 079			-0 2	2 0		
			U-238	0 535	0 036			13 2	0 9	**25.7**	
			Pu-239/240	0 015	0 040			0 4	1 0		
			Am-241	0 048	0 043			1 2	1 1		**1 6**
Room 142, North Wall	18	010 001	U-233/234	0 332	0 036	43 00	40	12 3	1 3		
			U-235	0 028	0 078			1 0	2 9		
			U-238	0 463	0 036			17 1	1 3	**30 4**	
			Pu-239/240	0 010	0 083			0 4	3 1		
			Am-241	0 000	0 043			0 0	1 6		**0.4**
Room 142, Column 1	19	011 001	U-233/234	0 172	0 085	17 58	40	2 6	1 3		
			U-235	0 017	0 045			0 3	0 7		
			U-238	0 289	0 064			4 4	1 0	**7 2**	
			Pu-239/240	0 151	0 099			2 3	1 5		
			Am-241	0 075	0 102			1 1	1 5		**3 4**
Room 142, Column 2	20	012 001	U-233/234	0 131	0 059	14 46	40	1 6	0 7		
			U-235	0 015	0 041			0 2	0 5		
			U-238	0 118	0 059			1 5	0 7	**3 3**	
			Pu-239/240	0 050	0 092			0 6	1 1		
			Am-241	0 040	0 109			0 5	1 4		**1 1**
Room 142, Column 3	21	013 001	U-233/234	0 437	0 035	34 50	40	13 0	1 0		
			U-235	0 016	0 043			0 5	1 3		
			U-238	0 410	0 035			12 2	1 0	**25 6**	
			Pu-239/240	0 015	0 041			0 4	1 2		
			Am-241	0 000	0 118			0 0	3 5		**0 4**

Survey Unit 77940 Building 779 Paint/Solid Media Sample Results

LOCATION DESCRIPTION	SAMPLE LOCATION NUMBER	SITE SAMPLE ID	NUCLIDE	pCi/g	MDA (pCi/g)	WEIGHT (g)	SURFACE AREA (in^2)	INDIVIDUAL NUCLIDE ($dpm/100cm^2$)	ESTIMATED MDA ($dpm/100cm^2$)	URANIUM TOTAL ($dpm/100cm^2$) *$DCGL_W$=5000*	TRANSURANIC TOTAL ($dpm/100cm^2$) *$DCGL_W$=100*
Room 142, Column 9	22	014 001	U-233/234	0 171	0 031	7 98	40	1 2	0 2		
			U-235	0 028	0 038			0 2	0 3		
			U-238	0 279	0 054			1 9	0 4	**3 3**	
			Pu-239/240	0 000	0 047			0 0	0 3		
			Am-241	0 000	0 146			0 0	1 0		**0 0**
Room 142, Column 10	23	015 001	U-233/234	0 488	0 034	13 16	40	5 5	0 4		
			U-235	0 015	0 042			0 2	0 5		
			U-238	0 302	0 070			3 4	0 8	**9 1**	
			Pu-239/240	0 056	0 076			0 6	0 9		
			Am-241	0 000	0 288			0 0	3 3		**0 6**
Room 142, Column 10	24	016 001	U-233/234	0 297	0 034	8 35	40	2 1	0 2		
			U-235	0 009	0 073			0 1	0 5		
			U-238	0 333	0 033			2 4	0 2	**4 6**	
			Pu-239/240	0 010	0 061			0 1	0 4		
			Am-241	0 093	0 126			0 7	0 9		**0.7**

NOTE The sample RIN # for locations 1-10 is 00A0744

NOTE The sample RIN # for locations 11-24 is 00A0745

MIN	**1 0**	**0 0**
MAX	**86 7**	**4 7**
MEAN	**23 4**	**1 7**
SD	**23 1**	**1 3**
$DCGL_W$ =	**5000**	**100**

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ATTACHMENT O

Survey Unit 77941 Data Summary

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SURVEY UNIT 77941 DATA

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Survey Unit 77941 Data Summary

Total Surface Activity Measurements

	53	61	
	Number Required	Number Obtained	
MIN	-7 0		dpm/100 cm^2
MAX	35 9		dpm/100 cm^2
MEAN	13 5		dpm/100 cm^2
STD DEV	10 2		dpm/100 cm^2
TRANSURANIC DCGL$_W$	100		dpm/100 cm^2

Removable Activity Measurements

	53	61	
	Number Required	Number Obtained	
MIN	0 0		dpm/100 cm^2
MAX	6 0		dpm/100 cm^2
MEAN	1 0		dpm/100 cm^2
STD DEV	1 5		dpm/100 cm^2
TRANSURANIC DCGL$_W$	20		dpm/100 cm^2

Media Sample Activity

	N/A	N/A
Media Samples	Number Required	Number Obtained

Total Uranium Results

MIN	N/A	dpm/100 cm^2
MAX	N/A	dpm/100 cm^2
MEAN	N/A	dpm/100 cm^2
STD DEV	N/A	dpm/100 cm^2
DCGL$_W$	5000	dpm/100 cm^2

Total Transuranic Results

MIN	N/A	dpm/100 cm^2
MAX	N/A	dpm/100 cm^2
MEAN	N/A	dpm/100 cm^2
STD DEV	N/A	dpm/100 cm^2
DCGL$_W$	100	dpm/100 cm^2

Survey Unit 77341 Building 779 Total Surface Contamination Results

Total Surface Activity Survey						Quality Control Survey				
Meter Model	NE Electra w/ DP6 Probe			Local Area Bkgd (cpm)		NE Electra w/ DP6 Probe			Local Area Bkgd (cpm)	
Instrument #	2376	2363	2380	2 1		1837	2373	N/A	1 9	
Cal Due Date	3/23/00	5/17/00	2/29/00			2/13/00	5/4/00	N/A		
Efficiency (c/d)	0 207	0 219	0 193			0 212	0 207	N/A		
	Total Surface Activity Measurements					Quality Control Measurements				
Sample Location Number	Serial #	Date	(cpm)	MDA (dpm/100 cm²)	(dpm/100 cm²)	Serial #	Date	(cpm)	MDA (dpm/100 cm²)	(dpm/100 cm²)
1	2376	12/14/99	4 7	36	12 3					
2	2376	12/14/99	2 7	36	2 7					
3	2376	12/14/99	2 7	36	2 7					
4	2376	12/14/99	4 0	36	8 9					
5	2376	12/14/99	2 0	36	-0 7					
6	2376	12/14/99	6 0	36	18 6					
7	2376	12/14/99	5 3	36	15 2					
8	2376	12/14/99	2 7	36	2 7					
9	2376	12/14/99	0 7	36	7 0					
10	2376	12/14/99	0 7	36	7 0					
11	2376	12/14/99	6 0	36	18 6					
12	2376	12/14/99	5 3	36	15.2					
13	2376	12/14/99	2 7	36	2 7					
14	2376	12/14/99	8 0	36	28.2					
15	2376	12/14/99	4 0	36	8 9					
16	2376	12/14/99	2 0	36	-0 7					
17	2376	12/14/99	4 7	36	12.3					
18	2376	12/14/99	2 0	36	-0 7					
19	2376	12/14/99	4 7	36	12.3					
20	2376	12/14/99	3 3	36	5 6					
21	2376	12/14/99	2 7	36	2 7					
22	2363	12/15/99	5 3	34	14 4					
23	2363	12/15/99	6 0	34	17 6					
24	2363	12/15/99	5 3	34	14 4					
25	2363	12/15/99	6 7	34	20 8					
26	2363	12/15/99	4 0	34	8 5					
27	2363	12/15/99	8 0	34	26 7					
28	2363	12/15/99	6 7	34	20 8					
29	2363	12/15/99	5 3	34	14 4					
30	2363	12/15/99	6 7	34	20 8					
31	2363	12/15/99	6 7	34	20 8					
32	2363	12/15/99	2 7	34	2 5					
33	2363	12/15/99	8 0	34	26 7					
34	2363	12/15/99	8 7	34	29 9					
35	2363	12/15/99	4 7	34	11 7					
36	2363	12/15/99	1 3	34	-3 9					

Survey Unit 77941 Building 779 Total Surface Contamination Results

37	2363	12/15/99	4 0	34	8 5					
38	2363	12/15/99	7 3	34	23 5					
39	2380	12/16/99	4 7	38	13 2					
40	2363	12/15/99	6 7	34	20 8					
41	2363	12/15/99	2 7	34	2 5					
42	2363	12/15/99	4 7	34	11 7					
43	2363	12/15/99	6 0	34	17 6					
44	2363	12/15/99	4 0	34	8 5					
45	2363	12/15/99	8 7	34	29 9	1837	12/16/99	4 0	33	10 1
46	2363	12/15/99	8 0	34	26 7					
47	2363	12/15/99	10 0	34	35 9	1837	12/16/99	4 7	33	13.4
48	2363	12/15/99	6 7	34	20 8					
49	2363	12/15/99	6 0	34	17 6					
50	2363	12/15/99	4 7	34	11 7					
51	2363	12/15/99	7 3	34	23 5					
52	2363	12/15/99	8 7	34	29 9	1837	12/16/99	8 7	33	32.3
53	2363	12/15/99	4 0	34	8 5					
54	2363	12/15/99	6 7	34	20 8					
55	2363	12/15/99	4 0	34	8 5					
56	2363	12/15/99	4 0	34	8 5					
57	2363	12/15/99	6 7	34	20 8					
58	2363	12/15/99	2 7	34	2 5					
59	2363	12/15/99	3 3	34	5 3					
60	2363	12/15/99	9 7	34	34 5	2373	12/17/99	6 7	34	23.4
61	2363	12/15/99	5 3	34	14.4					
				MIN	7 0					
				MAX	35 9					
				MEAN	13 5					
				SD	10 2					
				Transuranic $DCGL_W$	100					

Survey Unit 77941 Building 779 Smear Results

Smear Location Number	Smear Results				
	Serial Number	Date Counted	Gross (cpm)	(dpm/100 cm^2)	MDA
1	814	12/15/99	0 0	**0 0**	4 1
2	1160	12/15/99	0 0	**0 0**	7 5
3	814	12/15/99	0 0	**0 0**	4 1
4	1160	12/15/99	0 5	**1 5**	7 5
5	814	12/15/99	0 0	**0 0**	4 1
6	1160	12/15/99	0 0	**0 0**	7 5
7	814	12/15/99	0 0	**0 0**	4 1
8	1160	12/15/99	0 0	**0 0**	7 5
9	814	12/15/99	0 0	**0 0**	4 1
10	1160	12/15/99	0 5	**1 5**	7 5
11	814	12/15/99	0 0	**0 0**	4 1
12	1160	12/15/99	0 0	**0 0**	7 5
13	814	12/15/99	0 0	**0 0**	4 1
14	1160	12/15/99	0 5	**1 5**	7 5
15	814	12/15/99	1 5	**4 5**	4 1
16	1160	12/15/99	1 5	**4.5**	7 5
17	814	12/15/99	0 0	**0 0**	4 1
18	1160	12/15/99	2 0	**6 0**	7 5
19	814	12/15/99	0 5	**1 5**	4 1
20	1160	12/15/99	0 0	**0 0**	7 5
21	814	12/15/99	0 0	**0 0**	4 1
22	1160	12/15/99	0 5	**1 5**	7 5
23	814	12/15/99	0 0	**0 0**	4 1
24	1160	12/15/99	1 0	**3 0**	7 5
25	814	12/15/99	0 0	**0 0**	4 1
26	1160	12/15/99	0 0	**0 0**	7 5
27	814	12/15/99	0 0	**0 0**	4 1
28	1160	12/15/99	0 0	**0 0**	7 5
29	814	12/15/99	0 0	**0 0**	4 1
30	1160	12/15/99	0 0	**0 0**	7 5
31	814	12/15/99	0 0	**0 0**	4 1
32	1160	12/15/99	0 5	**1 5**	7 5
33	814	12/15/99	0 0	**0 0**	4 1
34	1160	12/15/99	0 0	**0 0**	7 5

Survey Unit 77941 Building 779 Smear Results

35	814	12/15/99	0 0	**0 0**	4 1
36	1160	12/15/99	1 0	**3 0**	7 5
37	814	12/15/99	0 0	**0 0**	4 1
38	1160	12/15/99	0 0	**0 0**	7 5
39	814	12/16/99	0 0	**0 0**	6 5
40	814	12/16/99	0 0	**0 0**	6 5
41	814	12/16/99	0 5	**1 5**	6 5
42	814	12/16/99	0 5	**1 5**	6 5
43	814	12/16/99	0 0	**0 0**	6 5
44	814	12/16/99	0 0	**0 0**	6 5
45	814	12/16/99	0 5	**1 5**	6 5
46	814	12/16/99	0 5	**1 5**	6 5
47	814	12/16/99	0 5	**1 5**	6 5
48	814	12/16/99	0 0	**0 0**	6 5
49	814	12/16/99	0 0	**0 0**	6 5
50	814	12/16/99	0 5	**1 5**	6 5
51	814	12/16/99	0 5	**1 5**	6 5
52	814	12/16/99	0 5	**1 5**	6 5
53	814	12/16/99	1 5	**4 5**	6 5
54	814	12/16/99	0 0	**0 0**	6 5
55	814	12/16/99	1 5	**4 5**	6 5
56	814	12/16/99	0 0	**0 0**	6 5
57	814	12/16/99	0 0	**0 0**	6 5
58	814	12/16/99	1 0	**3 0**	6 5
59	814	12/16/99	0 5	**1 5**	6 5
60	814	12/16/99	1 0	**3 0**	6 5
61	814	12/16/99	0 5	**1 5**	6 5
			MIN	0 0	
			MAX	**6 0**	
			MEAN	**1 0**	
			SD	1 5	
			Transuranic $DCGL_W$	**20**	

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ATTACHMENT P

Survey Unit 77942 Data Summary

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SURVEY UNIT 77942 DATA

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Survey Unit 77942 Data Summary

Total Surface Activity Measurements

	15	40	
	Number Required	Number Obtained	
MIN	-5 8		dpm/100 cm^2
MAX	22 2		dpm/100 cm^2
MEAN	10 6		dpm/100 cm^2
STD DEV	7 5		dpm/100 cm^2
TRANSURANIC DCGL$_W$	100		dpm/100 cm^2

Removable Activity Measurements

	15	40	
	Number Required	Number Obtained	
MIN	-0 9		dpm/100 cm^2
MAX	6 6		dpm/100 cm^2
MEAN	0 2		dpm/100 cm^2
STD DEV	1 8		dpm/100 cm^2
TRANSURANIC DCGL$_W$	20		dpm/100 cm^2

Media Sample Activity

Media Samples	15	24
	Number Required	Number Obtained

Total Uranium Results

MIN	0 8	dpm/100 cm^2
MAX	76 1	dpm/100 cm^2
MEAN	32 0	dpm/100 cm^2
STD DEV	21 7	dpm/100 cm^2
DCGL$_W$	5000	dpm/100 cm^2

Total Transuranic Results

MIN	-0 2	dpm/100 cm^2
MAX	36 5	dpm/100 cm^2
MEAN	5 8	dpm/100 cm^2
STD DEV	9 1	dpm/100 cm^2
DCGL$_W$	100	dpm/100 cm^2

Survey Unit 77942 Building 779 Total Surface Contamination Results

Total Surface Activity Survey						Quality Control Survey				
Meter Model	NE Electra w/ DP6 Probe				Local Area Bkgd (cpm)	NE Electra w/ DP6 Probe			Local Area Bkgd (cpm)	
Instrument #	1370	1265	1262	2349	2.5	1265	N/A	N/A	6.3	
Cal. Due Date	4/20/00	3/2/00	12/9/99	12/24/99		3/2/00	N/A	N/A		
Efficiency (cfd)	0.214	0.213	0.215	0.2174		0.213	N/A	N/A		
	Total Surface Activity Measurements					Quality Control Measurements				
Sample Location Number	Serial #	Date	(cpm)	MDA (dpm/100 cm²)	(dpm/100 cm²)	Serial #	Date	(cpm)	MDA (dpm/100 cm²)	(dpm/100 cm²)
1	1370	10/28/99	4.0	37	6.8					
2	1370	10/28/99	2.7	37	0.8					
3	1370	10/28/99	6.7	37	19.4					
4	1370	10/28/99	4.0	37	6.8					
5	1370	10/28/99	4.7	37	10.1					
6	1370	10/28/99	6.0	37	16.2					
7	1370	10/28/99	3.3	37	3.6					
8	1370	10/28/99	2.7	37	0.8					
9	1370	10/28/99	6.7	37	19.4	1265	11/01/99	2.7	53	16.9
10	1370	10/28/99	7.1	37	22.2	1265	11/01/99	7.3	53	4.7
11	1370	10/28/99	6.0	37	16.2					
12	1370	10/28/99	4.0	37	6.8					
13	1370	10/28/99	2.0	37	2.5					
14	1370	10/28/99	3.3	37	3.6					
15	1370	10/28/99	4.0	37	6.8					
16	1370	10/28/99	4.0	37	6.8					
17	1370	10/28/99	4.0	37	6.8					
18	1370	10/28/99	4.7	37	10.1					
19	1370	10/28/99	1.3	37	-5.8					
20	1370	10/28/99	4.7	37	10.1					
21	1370	10/28/99	2.7	37	0.8					
22	1370	10/28/99	4.7	37	10.1					
23	1370	10/28/99	5.3	37	12.9					
24	1370	10/28/99	4.7	37	10.1					
25	1265	11/01/99	3.3	37	3.6					
26	1265	11/01/99	6.7	37	19.6					
27	1265	11/01/99	6.0	37	16.3					
28	1265	11/01/99	6.0	37	16.3					
29	1265	11/01/99	6.0	37	16.3					
30	1265	11/01/99	2.0	37	2.5					
31	1265	11/01/99	6.3	37	17.7					
32	1265	11/01/99	6.0	37	16.3					
33	1265	11/01/99	6.0	37	16.3					
34	1265	11/01/99	6.0	37	16.3					
35	1265	11/01/99	4.7	37	10.2					
36	1262	11/03/99	3.3	36	3.5					
37	1265	11/01/99	6.3	37	17.7					
38	1265	11/01/99	6.7	37	19.6					
39	1262	11/03/99	6.3	36	17.5					
40	2349	11/16/99	7.3	36	21.9					
				MIN	5.8					
				MAX	22.2					
				MEAN	10.6					
				SD	7.5					
				Transuranic $DCGL_w$	100					

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Survey Unit 77942 Building 779 Smear Results

Smear Location Number	Smear Results				
	Serial Number	Date Counted	Gross (cpm)	(dpm/100 cm²)	MDA
1	814	10/28/99	0 0	-0 9	8 3
2	1407	10/28/99	0 0	-0 6	7 5
3	814	10/28/99	0 0	-0 9	8 3
4	1407	10/28/99	0 0	-0 6	7 5
5	814	10/28/99	2 5	6 6	8 3
6	1407	10/28/99	0 0	-0 6	7 5
7	814	10/28/99	2 5	6 6	8 3
8	1407	10/28/99	0 0	-0 6	7 5
9	814	10/28/99	1 0	2 1	8 3
10	1407	10/28/99	0 0	-0 6	7 5
11	814	10/28/99	0 0	-0 9	8 3
12	1407	10/28/99	0 5	0 9	7 5
13	814	10/28/99	0 5	0 6	8 3
14	1407	10/28/99	1 0	2 4	7 5
15	814	10/28/99	0 5	0 6	8 3
16	1407	10/28/99	0 0	-0 6	7 5
17	814	10/28/99	0 0	-0 9	8 3
18	1407	10/28/99	0 0	-0 6	7 5
19	814	10/28/99	0 5	0 6	8 3
20	1407	10/28/99	0 0	-0 6	7 5
21	814	10/28/99	0 0	-0 9	8 3
22	1407	10/28/99	0 0	-0 6	7 5
23	814	10/28/99	1 0	2 1	8 3
24	1407	10/28/99	0 0	-0 6	7 5
25	814	11/2/99	0 0	-0 9	8 3
26	814	11/2/99	0 5	0 7	8 3
27	814	11/2/99	0 5	0 6	8 3
28	814	11/2/99	0 0	-0 9	8 3
29	814	11/2/99	0 0	-0 9	8 3
30	814	11/2/99	0 5	0 6	8 3
31	814	11/2/99	0 0	-0 9	8 3
32	814	11/2/99	0 5	0 6	8 3
33	814	11/2/99	0 5	0 6	8 3
34	814	11/2/99	0 0	-0 9	8 3
35	814	11/2/99	0 5	0 6	8 3
36	814	11/2/99	0 0	-0 9	8 3
37	814	11/2/99	0 5	0 6	8 3
38	814	11/2/99	0 0	-0 9	8 3
39	814	11/2/99	0 0	-0 9	8 3
40	1407	12/17/99	0 0	-0 6	7 5
			MIN	-0 9	
			MAX	6 6	
			MEAN	0 2	
			SD	1 8	
			Transuranic $DCGL_w$	20	

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Survey Unit 77942 Building 779 Paint/Solid Media Sample Results

LOCATION DESCRIPTION	SAMPLE LOCATION NUMBER	SITE SAMPLE ID	NUCLIDE	pCi/g	MDA (pCi/g)	WEIGHT (g)	SURFACE AREA (in^2)	INDIVIDUAL NUCLIDE ($dpm/100cm^2$)	ESTIMATED MDA ($dpm/100cm^2$)	URANIUM TOTAL ($dpm/100cm^2$) $DCGL_W$=5000	TRANSURANIC TOTAL ($dpm/100cm^2$) $DCGL_W$=100
Floor	1	001 001	U-233/234	0 175	0 040	119 18	40	17 9	4 1		
			U-235	0 137	0 086			14 0	8 8		
			U-238	0 131	0 039			13 4	4 0	**45.4**	
			Pu-239/240	0 157	0 039			16 1	4 0		
			Am-241	0 036	0 049			3 7	5 0		**19.8**
Floor	2	002 001	U-233/234	0 118	0 040	79 00	40	8 0	2 7		
			U-235	0 054	0 049			3 7	3 3		
			U-238	0 249	0 040			16 9	2 7	**28 6**	
			Pu-239/240	0 405	0 039			27 5	2 7		
			Am-241	0 132	0 072			9 0	4 9		**36.5**
Wall 1	3	003 001	U-233/234	0 158	0 039	41 16	40	5 6	1 4		
			U-235	0 089	0 048			3 2	1 7		
			U-238	0 181	0 069			6 4	2 4	**15 2**	
			Pu-239/240	-0 006	0 075			-0 2	2 7		
			Am-241	0 020	0 054			0 7	1 9		**0.5**
Wall 1	4	004 001	U-233/234	0 184	0 038	36 00	40	5 7	1 2		
			U-235	0 098	0 083			3 0	2 6		
			U-238	0 143	0 079			4 4	2 4	**13.2**	
			Pu-239/240	0 015	0 040			0 5	1 2		
			Am-241	0 048	0 044			1 5	1 4		**2.0**
Wall 1	5	005 001	U-233/234	0 203	0 042	82 37	40	14 4	3 0		
			U-235	0 089	0 092			6 3	6 5		
			U-238	0 264	0 042			18 7	3 0	**39 4**	
			Pu-239/240	0 104	0 096			7 4	6 8		
			Am-241	0 064	0 043			4 5	3 0		**11.9**
Wall 1	6	006 001	U-233/234	0 123	0 077	44 17	40	4 7	2 9		
			U-235	0 080	0 054			3 0	2 1		
			U-238	0 155	0 077			5 9	2 9	**13.6**	
			Pu-239/240	-0 005	0 062			-0 2	2 4		
			Am-241	0 019	0 051			0 7	1 9		**0.5**
Wall 1	7	007 001	U-233/234	0 183	0 038	60 92	40	9 6	2 0		
			U-235	0 139	0 047			7 3	2 5		
			U-238	0 224	0 038			11 7	2 0	**28.6**	
			Pu-239/240	0 022	0 067			1 2	3 5		
			Am-241	0 000	0 045			0 0	2 4		**1 2**

Survey Unit 77942 Building 779 Paint/Solid Media Sample Results

LOCATION DESCRIPTION	SAMPLE LOCATION NUMBER	SITE SAMPLE ID	NUCLIDE	pCi/g	MDA (pCi/g)	WEIGHT (g)	SURFACE AREA (in²)	INDIVIDUAL NUCL DE (dpm/100cm²)	ESTIMATED MDA (dpm/100cm²)	URANIUM TOTAL (dpm/100cm²) $DCGL_W$=5000	TRANSURANIC TOTAL (dpm/100cm²) $DCGL_W$=100
Column 4	8	008 001	U-233/234	0 260	0 035	13 82	40	3 1	0 4		
			U-235	0 096	0 044			1 1	0 5		
			U-238	0 409	0 062			4 9	0 7	9.1	
			Pu-239/240	0 027	0 127			0 3	1 5		
			Am-241	0 083	0 113			1 0	1 3		1.3
Column 3	9	009 001	U-233/234	0 470	0 040	13 27	40	5 4	0 5		
			U-235	0 091	0 049			1 0	0 6		
			U-238	0 383	0 083			4 4	0 9	10.8	
			Pu-239/240	0 034	0 046			0 4	0 5		
			Am-241	0 078	0 070			0 9	0 8		1.3
Column 2	10	010 001	U-233/234	0 504	0 038	10 35	40	4 5	0 3		
			U-235	0 079	0 083			0 7	0 7		
			U-238	0 502	0 038			4 5	0 3	9.7	
			Pu-239/240	0 003	0 093			0 0	0 8		
			Am-241	0 036	0 048			0 3	0 4		0.3
Column 1	11	011 001	U-233/234	0 550	0 089	11 20	40	5 3	0 9		
			U-235	0 060	0 110			0 6	1 1		
			U-238	0 373	0 104			3 6	1 0	9.5	
			Pu-239/240	0 025	0 069			0 2	0 7		
			Am-241	0 026	0 071			0 3	0 7		0.5
Wall 3	12	012 001	U-233/234	0 701	0 094	35 01	40	21 1	2 8		
			U-235	0 102	0 056			3 1	1 7		
			U-238	0 853	0 079			25 7	2 4	49.9	
			Pu-239/240	0 042	0 078			1 3	2 3		
			Am-241	0 053	0 048			1 6	1 4		2.9
Wall 2	13	013 001	U-233/234	0 752	0 090	29 84	40	19 3	2 3		
			U-235	0 098	0 053			2 5	1 4		
			U-238	0 603	0 043			15 5	1 1	37.3	
			Pu-239/240	0 028	0 039			0 7	1 0		
			Am-241	0 018	0 050			0 5	1 3		1.2
Wall 2	14	014 001	U-233/234	1 130	0 088	37 81	40	36 8	2 9		
			U-235	0 077	0 052			2 5	1 7		
			U-238	0 819	0 075			26 6	2 4	65 9	
			Pu-239/240	0 027	0 080			0 9	2 6		
			Am-241	0 040	0 054			1 3	1 8		2 2

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Survey Unit 77942 Building 779 Paint/Solid Media Sample Results

LOCATION DESCRIPTION	SAMPLE LOCATION NUMBER	SITE SAMPLE ID	NUCLIDE	pCi/g	MDA (pCi/g)	WEIGHT (g)	SURFACE AREA (in^2)	INDIVIDUAL NUCLIDE ($dpm/100cm^2$)	ESTIMATED MDA ($dpm/100cm^2$)	URANIUM TOTAL ($dpm/100cm^2$) $DCGL_W$=5000	TRANSURANIC TOTAL ($dpm/100cm^2$) $DCGL_W$=100
Wall 2	15	015 001	U-233/234	0 982	0 072	24 29	40	20 5	1 5		
			U-235	0 092	0 050			1 9	1 0		
			U-238	0 724	0 071			15 1	1 5	37 6	
			Pu-239/240	0 010	0 081			0 2	1 7		
			Am-241	0 017	0 046			0 4	1 0		0 6
Wall 2	16	016 001	U-233/234	0 320	0 046	43 56	40	12 0	1 7		
			U-235	0 042	0 056			1 6	2 1		
			U-238	0 318	0 045			11 9	1 7	25.5	
			Pu-239/240	0 014	0 037			0 5	1 4		
			Am-241	0 053	0 098			2 0	3 7		2.5
Wall 2	17	017 001	U-233/234	0 702	0 041	42 82	40	25 9	1 5		
			U-235	0 132	0 051			4 9	1 9		
			U-238	0 738	0 073			27 2	2 7	57.9	
			Pu-239/240	0 147	0 044			5 4	1 6		
			Am-241	0 082	0 055			3 0	2 0		8.4
Wall 2	18	018 001	U-233/234	0 559	0 049	16 70	40	8 0	0 7		
			U-235	0 080	0 107			1 1	1 5		
			U-238	0 453	0 102			6 5	1 5	15.7	
			Pu-239/240	0 147	0 044			2 1	0 6		
			Am-241	0 800	0 103			11 5	1 5		13.6
Wall 2	19	019 001	U-233/234	0 217	0 042	1 78	40	0 3	0 1		
			U-235	0 069	0 091			0 1	0 1		
			U-238	0 246	0 042			0 4	0 1	0.8	
			Pu-239/240	0 069	0 062			0 1	0 1		
			Am-241	0 000	0 144			0 0	0 2		0.1
Wall 2	20	020 001	U-233/234	0 755	0 042	30 92	40	20 1	1 1		
			U-235	0 171	0 052			4 5	1 4		
			U-238	0 506	0 042			13 5	1 1	38.1	
			Pu-239/240	0 029	0 039			0 8	1 0		
			Am-241	-0 038	0 253			-1 0	6 7		-0.2
Wall 2	21	021 001	U-233/234	1 070	0 043	39 04	40	35 9	1 4		
			U-235	0 217	0 053			7 3	1 8		
			U-238	0 980	0 076			32 9	2 6	76 1	
			Pu-239/240	0 023	0 068			0 8	2 3		
			Am-241	0 030	0 041			1 0	1 4		1 8

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Survey Unit 77942 Building 779 Paint/Solid Media Sample Results

LOCATION DESCRIPTION	SAMPLE LOCATION NUMBER	SITE SAMPLE ID	NUCLIDE	pCi/g	MDA (pCi/g)	WEIGHT (g)	SURFACE AREA (in^2)	INDIVIDUAL NUCLIDE ($dpm/100cm^2$)	ESTIMATED MDA ($dpm/100cm^2$)	URANIUM TOTAL ($dpm/100cm^2$) $DCGL_W$=5000	TRANSURANIC TOTAL ($dpm/100cm^2$) $DCGL_W$=100
Wall 2	22	022 001	U-233/234	0 353	0 042	21 23	40	6 4	0 8		
			U-235	0 038	0 051			0 7	0 9		
			U-238	0 568	0 086			10 4	1 6	**17.5**	
			Pu-239/240	0 045	0 041			0 8	0 7		
			Am-241	0 027	0 072			0 5	1 3		**1.3**
Wall 2	23	023 001	U-233/234	0 788	0 044	43 98	40	29 8	1 7		
			U-235	0 113	0 097			4 3	3 7		
			U-238	0 965	0 044			36 5	1 7	**70 6**	
			Pu-239/240	0 151	0 037			5 7	1 4		
			Am-241	0 032	0 043			1 2	1 6		**6.9**
Wall 2	24	024 001	U-233/234	0 734	0 041	33 92	40	21 4	1 2		
			U-235	0 200	0 090			5 8	2 6		
			U-238	0 868	0 041			25 3	1 2	**52.6**	
			Pu-239/240	0 008	0 064			0 2	1 9		
			Am-241	0 750	0 041			21 9	1 2		**22.1**

MIN	**0 8**	**-0 2**
MAX	**76 1**	**36 5**
MEAN	**32.0**	**5.8**
SD	**21 7**	**9 1**
$DCGL_W$ =	**5000**	**100**

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ATTACHMENT Q

Survey Unit 77944 Data Summary

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SURVEY UNIT 77944 DATA

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Survey Unit 77944 Data Summary

Total Surface Activity Measurements

	22	27	
	Number Required	Number Obtained	
MIN	-0 6		dpm/100 cm^2
MAX	47 7		dpm/100 cm^2
MEAN	20 6		dpm/100 cm^2
STD DEV	11 7		dpm/100 cm^2
TRANSURANIC DCGL$_W$	100		dpm/100 cm^2

Removable Activity Measurements

	22	27	
	Number Required	Number Obtained	
MIN	-1 2		dpm/100 cm^2
MAX	3 9		dpm/100 cm^2
MEAN	0 0		dpm/100 cm^2
STD DEV	1 3		dpm/100 cm^2
TRANSURANIC DCGL$_W$	20		dpm/100 cm^2

Media Sample Activity

Media Samples	13*	14
	Number Required	Number Obtained

Total Uranium Results

MIN	0 9	dpm/100 cm^2
MAX	30 5	dpm/100 cm^2
MEAN	7 8	dpm/100 cm^2
STD DEV	9 0	dpm/100 cm^2
DCGL$_W$	5000	dpm/100 cm^2

Total Transuranic Results

MIN	0 0	dpm/100 cm^2
MAX	14 0	dpm/100 cm^2
MEAN	3 2	dpm/100 cm^2
STD DEV	3 9	dpm/100 cm^2
DCGL$_W$	100	dpm/100 cm^2

* The surface media was removed from several areas that were previously painted Therefore, a biased sampling design was utilized for surface media samples in this survey unit

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Survey Unit 77944 Building 779 Total Surface Contamination Results

Total Surface Activity Survey						Quality Control Survey				
Meter Model	NE Electra w/ DP6 Probe			Local Area Bkgd (cpm)		NE Electra w/ DP6 Probe			Local Area Bkgd (cpm)	
Instrument #	2373	N/A	N/A	2 1		2378	N/A	N/A	0 9	
Cal Due Date	5/4/00	N/A	N/A			5/3/00	N/A	N/A		
Efficiency (c/d)	0 207	N/A	N/A			0 216	N/A	N/A		
	Total Surface Activity Measurements					Quality Control Measurements				
Sample Location Number	Serial #	Date	(cpm)	MDA (dpm/100 cm²)	(dpm/100 cm²)	Serial #	Date	(cpm)	MDA (dpm/100 cm²)	(dpm/100 cm²)
1	2373	12/17/99	9 3	35	34 7					
2	2373	12/17/99	9 3	35	34 7					
3	2373	12/17/99	9 3	35	34 7	2378	12/17/99	5 3	25	20 6
4	2373	12/17/99	12 0	35	47 7	2378	12/17/99	8 7	25	36.3
5	2373	12/17/99	7 3	35	25 0					
6	2373	12/17/99	8 7	35	31 8					
7	2373	12/17/99	7 3	35	25 0					
8	2373	12/17/99	5 3	35	15 4					
9	2373	12/17/99	2 0	35	-0 6					
10	2373	12/17/99	6 7	35	22 1					
11	2373	12/17/99	2 7	35	2 8					
12	2373	12/17/99	4 0	35	9 1					
13	2373	12/17/99	4 0	35	9 1					
14	2373	12/17/99	2 0	35	-0 6					
15	2373	12/17/99	6 7	35	22 1					
16	2373	12/17/99	6 7	35	22 1					
17	2373	12/17/99	5 3	35	15.4					
18										
19	2373	12/17/99	6 0	35	18.8					
20	2373	12/17/99	2 7	35	2.8					
21	2373	12/17/99	6 0	35	18.8					
22	2373	12/17/99	6 7	35	22 1					
23	2373	12/17/99	6 7	35	22 1					
24										
25	2373	01/09/00	8 0	35	28.4					
26										
27	2373	12/17/99	6 0	35	18 8					
28	2373	12/17/99	8 7	35	31 8					
29	2373	12/17/99	6 7	35	22 1					
30	2373	12/17/99	6 0	35	18 8					
				MIN	-0 6					
				MAX	47 7					
				MEAN	20 6					
				SD	11 7					
				Transuranic $DCGL_W$	100					

NOTE The walls with locations 18 24 and 26 were removed due to remediation activities prior to Final Survey

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Survey Unit 77944 Building 779 Smear Results

Smear Location Number	Smear Results				
	Serial Number	Date Counted	Gross (cpm)	(dpm/100 cm^2)	MDA
1	814	12/17/99	0 0	**-1 2**	8 9
2	1160	12/17/99	0 5	**1 5**	4 1
3	1407	12/17/99	0 0	**-0 6**	7 5
4	814	12/17/99	0 0	**-1 2**	8 9
5	1160	12/17/99	0 0	**0 0**	4 1
6	1407	12/17/99	0 0	**-0 6**	7 5
7	814	12/17/99	0 0	**-1 2**	8 9
8	1160	12/17/99	0 0	**0 0**	4 1
9	1407	12/17/99	0 0	**-0 6**	7 5
10	814	12/17/99	1 0	**1 8**	8 9
11	1160	12/17/99	0 0	**0 0**	4 1
12	1407	12/17/99	0 0	**-0 6**	7 5
13	814	12/17/99	0 0	**-1 2**	8 9
14	1160	12/17/99	0 0	**0 0**	4 1
15	1407	12/17/99	0 0	**-0 6**	7 5
16	814	12/17/99	1 0	**1 8**	8 9
17	1160	12/17/99	0 0	**0 0**	4 1
18					
19	1407	12/17/99	0 0	**-0 6**	7 5
20	814	12/17/99	0 0	**-1 2**	8 9
21	1160	12/17/99	0 0	**0 0**	4 1
22	1407	12/17/99	0 0	**-0 6**	7 5
23	814	12/17/99	0 5	**0 3**	8 9
24					
25	1160	12/17/99	0 0	**0.0**	4 1
26					
27	1407	12/17/99	1 5	**3 9**	7 5
28	814	12/17/99	0 0	**-1 2**	8 9
29	1160	12/17/99	0 0	**0.0**	4 1
30	1407	12/17/99	1 0	**2 4**	7 5
			MIN	-1 2	
			MAX	**3 9**	
			MEAN	**0.0**	
			SD	1 3	
			Transuranic DCGL$_W$	**20**	

NOTE The walls with locations 18, 24, and 26 were removed due to remediation activities prior to Final Survey

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Survey Unit 77944 Building 779 Paint/Solid Media Sample Results

LOCATION DESCRIPTION	SAMPLE LOCATION NUMBER	SITE SAMPLE ID	NUCLIDE	pCi/g	MDA (pCi/g)	WEIGHT (g)	SURFACE AREA (in²)	INDIVIDUAL NUCLIDE (dpm/100cm²)	ESTIMATED MDA (dpm/100cm²)	URANIUM TOTAL (dpm/100cm²) DCGL $_W$=5000	TRANSURANIC TOTAL (dpm/100cm²) DCGL $_W$=100
Room 130, Wall 2	1	001 001	U-233/234	0 893	0 145	20 74	40	15 9	2 6		
			U-235	0 000	0 079			0 0	1 4		
			U-238	0 487	0 145			8 7	2 6	**24 6**	
			Pu-239/240	0 009	0 108			0 2	1 9		
			Am-241	0 154	0 070			2 7	1 2		**2.9**
Room 131 & 133, Ceiling	5	005 001	U-233/234	0 697	0 186	3 06	40	1 8	0 5		
			U-235	0 019	0 221			0 1	0 6		
			U-238	0 019	0 221			0 1	0 6	**1 9**	
			Pu-239/240	0 049	0 160			0 1	0 4		
			Am-241	0 259	0 122			0 7	0 3		**0.8**
Room 131 & 133, Ceiling	6	006 001	U-233/234	0 805	0 216	11 18	40	7 7	2 1		
			U-235	-0 007	0 149			-0 1	1 4		
			U-238	0 559	0 233			5 4	2 2	**13 1**	
			Pu-239/240	0 176	0 053			1 7	0 5		
			Am-241	0 084	0 057			0 8	0 5		**2.5**
Room 131 & 133, Ceiling	7	007 001	U-233/234	0 447	0 208	6 69	40	2 6	1 2		
			U-235	-0 018	0 233			-0 1	1 3		
			U-238	0 678	0 158			3 9	0 9	**6.4**	
			Pu-239/240	0 036	0 049			0 2	0 3		
			Am-241	0 106	0 058			0 6	0 3		**0 8**
Room 130, Wall	9	009 001	U-233/234	0 357	0 276	29 72	40	9 1	7 1		
			U-235	0 024	0 157			0 6	4 0		
			U-238	0 812	0 157			20 8	4 0	**30.5**	
			Pu-239/240	0 113	0 051			2 9	1 3		
			Am-241	0 112	0 109			2 9	2 8		**5.8**
Room 131 & 133, Ceiling	10	010 001	U-233/234	0 200	0 357	4 40	40	0 8	1 4		
			U-235	-0 032	0 206			-0 1	0 8		
			U-238	0 353	0 167			1 3	0 6	**2 0**	
			Pu-239/240	0 032	0 146			0 1	0 6		
			Am-241	-0 021	0 292			-0 1	1 1		**0 0**
Room 131 & 133, Ceiling	11	011 001	U-233/234	0 256	0 230	4 73	40	1 0	0 9		
			U-235	0 021	0 058			0 1	0 2		
			U-238	0 379	0 166			1 5	0 7	**2 7**	
			Pu-239/240	-0 034	0 173			-0 1	0 7		
			Am-241	0 097	0 258			0 4	1 1		**0 3**

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Survey Unit 77944 Building 779 Paint/Solid Media Sample Results

LOCATION DESCRIPTION	SAMPLE LOCATION NUMBER	SITE SAMPLE ID	NUCLIDE	pCi/g	MDA (pCi/g)	WEIGHT (g)	SURFACE AREA (in^2)	INDIVIDUAL NUCLIDE ($dpm/100cm^2$)	ESTIMATED MDA ($dpm/100cm^2$)	URANIUM TOTAL ($dpm/100cm^2$) *$DCGL_W$=5000*	TRANSURANIC TOTAL ($dpm/100cm^2$) *$DCGL_W$=100*
Room 131 & 133, Ceiling	12	012 001	U-233/234	0 422	0 173	6 29	40	2 3	0 9		
			U-235	0 039	0 173			0 2	0 9		
			U-238	0 439	0 074			2 4	0 4	**4 9**	
			Pu-239/240	0 047	0 156			0 3	0 8		
			Am-241	0 049	0 241			0 3	1 3		**0.5**
Room 130, Ceiling	13	013 001	U-233/234	0 208	0 227	14 21	40	2 5	2 8		
			U-235	0 020	0 198			0 2	2 4		
			U-238	0 306	0 181			3 7	2 2	**6 5**	
			Pu-239/240	0 530	0 117			6 5	1 4		
			Am-241	0 118	0 271			1 4	3 3		**7.9**
Room 131 & 133, Ceiling	14	014 001	U-233/234	0 198	0 425	3 31	40	0 6	1 2		
			U-235	-0 036	0 362			-0 1	1 0		
			U-238	0 357	0 211			1 0	0 6	**1 5**	
			Pu-239/240	0 997	0 157			2 8	0 4		
			Am-241	0 759	0 319			2 2	0 9		**5.0**
Room 131 & 133, Ceiling	15	015 001	U-233/234	0 398	0 286	8 25	40	2 8	2 0		
			U-235	0 000	0 087			0 0	0 6		
			U-238	0 405	0 168			2 9	1 2	**5 7**	
			Pu-239/240	0 005	0 132			0 0	0 9		
			Am-241	0 053	0 269			0 4	1 9		**0.4**
Room 131 & 133, Ceiling	16	016 001	U-233/234	0 114	0 464	3 66	40	0 4	1 5		
			U-235	0 057	0 369			0 2	1 2		
			U-238	0 109	0 369			0 3	1 2	**0 9**	
			Pu-239/240	0 092	0 042			0 3	0 1		
			Am-241	0 069	0 233			0 2	0 7		**0.5**
Room 131 & 133, Ceiling	19	019 001	U-233/234	0 409	0 205	7 23	40	2 5	1 3		
			U-235	0 047	0 183			0 3	1 1		
			U-238	0 308	0 084			1 9	0 5	**4.8**	
			Pu-239/240	1 800	0 166			11 2	1 0		
			Am-241	0 456	0 110			2 8	0 7		**14 0**

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Survey Unit 77944 Building 779 Paint/Solid Media Sample Results

LOCATION DESCRIPTION	SAMPLE LOCATION NUMBER	SITE SAMPLE ID	NUCLIDE	pCi/g	MDA (pCi/g)	WEIGHT (g)	SURFACE AREA (In^2)	INDIVIDUAL NUCLIDE (dpm/100cm^2)	ESTIMATED MDA (dpm/100cm^2)	URANIUM TOTAL (dpm/100cm^2) *$DCGL_W$=5000*	TRANSURANIC TOTAL (dpm/100cm^2) *$DCGL_W$=100*
Room 131 & 133, Ceiling	20	020 001	U-233/234	0 446	0 212	5 76	40	2 2	1 1		
			U-235	-0 017	0 212			-0 1	1 1		
			U-238	0 285	0 097			1 4	0 5	**3 5**	
			Pu-239/240	0 493	0 145			2 4	0 7		
			Am-241	0 089	0 147			0 4	0 7		**2 9**

MIN	**0 9**	**0 0**
MAX	**30 5**	**14 0**
MEAN	**7.8**	**3 2**
SD	**9 0**	**3 9**
$DCGL_W$ =	**5000**	**100**

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ATTACHMENT R

Survey Unit 77945 Data Summary

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SURVEY UNIT 77945 DATA

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Survey Unit 77945 Data Summary

Total Surface Activity Measurements

	15	21	
	Number Required	Number Obtained	
MIN	-6 5		dpm/100 cm^2
MAX	21 9		dpm/100 cm^2
MEAN	4 4		dpm/100 cm^2
STD DEV	6 6		dpm/100 cm^2
TRANSURANIC DCGL$_W$	100		dpm/100 cm^2

Removable Activity Measurements

	15	21	
	Number Required	Number Obtained	
MIN	-0 9		dpm/100 cm^2
MAX	0 6		dpm/100 cm^2
MEAN	-0 4		dpm/100 cm^2
STD DEV	0 7		dpm/100 cm^2
TRANSURANIC DCGL$_W$	20		dpm/100 cm^2

Media Sample Activity

	N/A	N/A
Media Samples	Number Required	Number Obtained

Total Uranium Results

MIN	N/A	dpm/100 cm^2
MAX	N/A	dpm/100 cm^2
MEAN	N/A	dpm/100 cm^2
STD DEV	N/A	dpm/100 cm^2
DCGL$_W$	N/A	dpm/100 cm^2

Total Transuranic Results

MIN	N/A	dpm/100 cm^2
MAX	N/A	dpm/100 cm^2
MEAN	N/A	dpm/100 cm^2
STD DEV	N/A	dpm/100 cm^2
DCGL$_W$	N/A	dpm/100 cm^2

Survey Unit 77945 Building 779 Total Surface Contamination Results

Total Surface Activity Survey						Quality Control Survey				
Meter Model	NE Electra w/ DP6 Probe			Local Area Bkgd (cpm)		NE Electra w/ DP6 Probe			Local Area Bkgd (cpm)	
Instrument #	2378	2380	N/A	2 5		2376	N/A	N/A	1 7	
Cal. Due Date	5/3/00	2/29/00	N/A			3/23/00	N/A	N/A		
Efficiency (c/d)	0 217	0 193	N/A			0 207	N/A	N/A		
	Total Surface Activity Measurements					Quality Control Measurements				
Sample Location Number	Serial #	Date	(cpm)	MDA (dpm/100 cm²)	(dpm/100 cm²)	Serial #	Date	(cpm)	MDA (dpm/100 cm²)	(dpm/100 cm²)
1	2378	12/13/99	7 3	36	21 9	2376	12/14/99	1 3	32	1 7
2	2378	12/13/99	4 7	36	9 9					
3	2378	12/13/99	4 7	36	9 9					
4	2378	12/13/99	3 3	36	3 5					
5	2378	12/13/99	5 3	36	12 7					
6	2378	12/13/99	2 7	36	0 7					
7	2378	12/13/99	4 7	36	9 9					
8	2378	12/13/99	4 0	36	6 7					
9	2378	12/13/99	4 7	36	9 9					
10	2378	12/13/99	2 0	36	2 5					
11	2378	12/13/99	4 7	36	9 9	2376	12/14/99	2 0	32	1 7
12	2378	12/13/99	2 0	36	2 5					
13	2378	12/13/99	3 3	36	3 5					
14	2378	12/13/99	2 7	36	0 7					
15	2378	12/13/99	2 7	36	0 7					
16	2380	12/16/99	1 3	36	-6 5					
17	2378	12/13/99	3 3	36	3 5					
18	2378	12/13/99	2 0	36	2 5					
19	2378	12/13/99	2 7	36	0 7					
20	2378	12/13/99	2 7	36	0 7					
21	2378	12/13/99	2 7	36	0 7					
				MIN	-6 5					
				MAX	21 9					
				MEAN	4 4					
				SD	6 6					
				Transuranic $DCGL_W$	100					

Survey Unit 77945 Building 779 Smear Results

Smear Location Number	Smear Results				
	Serial Number	Date Counted	Gross (cpm)	(dpm/100 cm^2)	MDA
1	1160	12/13/99	0 0	-0 9	8 3
2	1160	12/13/99	0 0	-0 9	8 3
3	1160	12/13/99	0 0	-0 9	8 3
4	1160	12/13/99	0 5	0 6	8 3
5	1160	12/13/99	0 0	-0 9	8 3
6	1160	12/13/99	0 0	-0 9	8 3
7	1160	12/13/99	0 0	-0 9	8 3
8	1160	12/13/99	0 5	0 6	8 3
9	1160	12/13/99	0 0	-0 9	8 3
10	1160	12/13/99	0 5	0 6	8 3
11	1160	12/13/99	0 0	-0 9	8 3
12	1160	12/13/99	0 5	0 6	8 3
13	1160	12/13/99	0 0	-0 9	8 3
14	1160	12/13/99	0 0	-0 9	8 3
15	1160	12/13/99	0 0	-0 9	8 3
16	814	12/16/99	0 0	-0 3	6 5
17	1160	12/13/99	0 5	0 6	8 3
18	1160	12/13/99	0 0	-0 9	8 3
19	1160	12/13/99	0 5	0 6	8 3
20	1160	12/13/99	0 0	-0 9	8 3
21	1160	12/13/99	0 0	-0 9	8 3
			MIN	-0 9	
			MAX	0 6	
			MEAN	-0 4	
			SD	0 7	
			Transuranic $DCGL_W$	20	

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ATTACHMENT S

Survey Unit 77946 Data Summary

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SURVEY UNIT 77946 DATA

Survey Unit 77946 Data Summary

Total Surface Activity Measurements

	15	23	
	Number Required	Number Obtained	
MIN	-3 4		dpm/100 cm^2
MAX	36 7		dpm/100 cm^2
MEAN	15 4		dpm/100 cm^2
STD DEV	9 5		dpm/100 cm^2
TRANSURANIC $DCGL_W$	100		dpm/100 cm^2

Removable Activity Measurements

	15	23	
	Number Required	Number Obtained	
MIN	-1 2		dpm/100 cm^2
MAX	2 4		dpm/100 cm^2
MEAN	0 1		dpm/100 cm^2
STD DEV	1 1		dpm/100 cm^2
TRANSURANIC $DCGL_W$	20		dpm/100 cm^2

Media Sample Activity

	N/A	N/A
Media Samples	Number Required	Number Obtained

Total Uranium Results

MIN	N/A	dpm/100 cm^2
MAX	N/A	dpm/100 cm^2
MEAN	N/A	dpm/100 cm^2
STD DEV	N/A	dpm/100 cm^2
$DCGL_W$	N/A	dpm/100 cm^2

Total Transuranic Results

MIN	N/A	dpm/100 cm^2
MAX	N/A	dpm/100 cm^2
MEAN	N/A	dpm/100 cm^2
STD DEV	N/A	dpm/100 cm^2
$DCGL_W$	N/A	dpm/100 cm^2

022/

Survey Unit 77946 Building 779 Total Surface Contamination Results

Total Surface Activity Survey						Quality Control Survey				
Meter Model	NE Electra w/ DP6 Probe			Local Area Bkgd (cpm)		NE Electra w/ DP6 Probe			Local Area Bkgd (cpm)	
Instrument #	2378	N/A	N/A	2 0		1834	N/A	N/A	2 4	
Cal. Due Date	5/3/00	N/A	N/A			2/4 00	N/A	N/A		
Efficiency (c/d)	0 217	N/A	N/A			0 208	N/A	N/A		
	Total Surface Activity Measurements					Quality Control Measurements				
Sample Location Number	Serial #	Date	(cpm)	MDA (dpm/100 cm²)	(dpm/100 cm²)	Serial #	Date	(cpm)	MDA (dpm/100 cm²)	(dpm/100 cm²)
1	2378	12/10/99	4 0	33	9 1					
2	2378	12/10/99	3 3	33	5 8					
3	2378	12/10/99	6 7	33	21.5					
4	2378	12/10/99	6 7	33	21 5					
5	2378	12/10/99	3 3	33	5 8					
6	2378	12/10/99	7 3	33	24 3					
7	2378	12/10/99	4 0	33	9 1					
8	2378	12/10/99	2 0	33	-0 1					
9	2378	12/10/99	7 3	33	24 3					
10	2378	12/10/99	5 3	33	15 1					
11	2378	12/10/99	8 7	33	30 7	1834	12/10/99	8 0	37	27.0
12	2378	12/10/99	4 3	33	10 5					
13	2378	12/10/99	4 7	33	12 3					
14	2378	12/10/99	4 7	33	12 3					
15	2378	12/10/99	1 3	33	3 4					
16	2378	12/10/99	10 0	33	36 7	1834	12/10/99	7.3	37	23 6
17	2378	12/10/99	5 3	33	15 1					
18	2378	12/10/99	4 7	33	12 3					
19	2378	12/10/99	4 7	33	12 3					
20	2378	12/10/99	6 7	33	21 5					
21	2378	12/10/99	7 3	33	24 3					
22	2378	12/10/99	4 7	33	12 3					
23	2378	12/10/99	6 7	33	21 5					
				MIN	3 4					
				MAX	36 7					
				MEAN	15 4					
				SD	9 5					
				Transuranic $DCGL_W$	100					

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Survey Unit 77946 Building 779 Smear Results

Smear Location Number	Smear Results				
	Serial Number	Date Counted	Gross (cpm)	(dpm/100 cm^2)	MDA
1	814	12/10/99	0 5	0 9	7 5
2	1160	12/10/99	0 0	-0 6	7 5
3	1407	12/10/99	1 0	1 8	8 9
4	814	12/10/99	1 0	2 4	7 5
5	1160	12/10/99	0 0	-0 6	7 5
6	1407	12/10/99	1 0	1 8	8 9
7	814	12/10/99	0 0	-0 6	7 5
8	1160	12/10/99	0 5	0 9	7 5
9	1407	12/10/99	0 0	-1 2	8 9
10	814	12/10/99	0 5	0 9	7 5
11	1160	12/10/99	0 0	-0 6	7 5
12	1407	12/10/99	0 0	-1 2	8 9
13	814	12/10/99	0 5	0 9	7 5
14	1160	12/10/99	0 0	-0 6	7 5
15	1407	12/10/99	0 0	-1 2	8 9
16	814	12/10/99	0 0	-0 6	7 5
17	1160	12/10/99	0 0	-0 6	7 5
18	1407	12/10/99	0 5	0 3	8 9
19	814	12/10/99	0 0	-0 6	7 5
20	1160	12/10/99	0 5	0 9	7 5
21	1407	12/10/99	0 5	0 3	8 9
22	814	12/10/99	0 0	-0 6	7 5
23	1160	12/10/99	0 5	0 9	7 5
			MIN	-1 2	
			MAX	2 4	
			MEAN	0 1	
			SD	1 1	
			Transuranic $DCGL_W$	20	

ATTACHMENT T

Survey Unit 77947 Data Summary

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SURVEY UNIT 77947 DATA

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Survey Unit 77947 Data Summary

Total Surface Activity Measurements

	16	29	
	Number Required	Number Obtained	
MIN	1 4		dpm/100 cm^2
MAX	28 0		dpm/100 cm^2
MEAN	10 7		dpm/100 cm^2
STD DEV	8 1		dpm/100 cm^2
TRANSURANIC DCGL$_W$	100		dpm/100 cm^2

Removable Activity Measurements

	16	29	
	Number Required	Number Obtained	
MIN	-0 9		dpm/100 cm^2
MAX	5 7		dpm/100 cm^2
MEAN	1 1		dpm/100 cm^2
STD DEV	1 5		dpm/100 cm^2
TRANSURANIC DCGL$_W$	20		dpm/100 cm^2

Media Sample Activity

Media Samples	16	17
	Number Required	Number Obtained

Total Uranium Results

MIN	1 9	dpm/100 cm^2
MAX	56 6	dpm/100 cm^2
MEAN	26 7	dpm/100 cm^2
STD DEV	16 3	dpm/100 cm^2
DCGL$_W$	5000	dpm/100 cm^2

Total Transuranic Results

MIN	-0 3	dpm/100 cm^2
MAX	60 4	dpm/100 cm^2
MEAN	5 4	dpm/100 cm^2
STD DEV	14 4	dpm/100 cm^2
DCGL$_W$	100	dpm/100 cm^2

Survey Unit 77947 Building 779 Total Surface Contamination Results

Total Surface Activity Survey						Quality Control Survey				
Meter Model	NE Electra w/ DP6 Probe			Local Area Bkgd (cpm)		NE Electra w/ DP6 Probe			Local Area Bkgd (cpm)	
Instrument #	2374	2378	N/A	2 4		2376	N/A	N/A	1 4	
Cal. Due Date	2/29/00	5/3/00	N/A			3/23/00	N/A	N/A		
Efficiency (c/d)	0 218	0 225	N/A			0 207	N/A	N/A		
	Total Surface Activity Measurements					Quality Control Measurements				
Sample Location Number	Serial #	Date	(cpm)	MDA (dpm/100 cm²)	(dpm/100 cm²)	Serial #	Date	(cpm)	MDA (dpm/100 cm²)	(dpm/100 cm²)
1	2374	11/08/99	3 3	35	4 1					
2	2374	11/08/99	3 3	35	4 1					
3	2374	11/08/99	3 3	35	4 1					
4	2374	11/08/99	4 0	35	7 3					
5	2374	11/08/99	6 0	35	16 5					
6	2374	11/08/99	4 7	35	10 5					
7	2374	11/08/99	5 3	35	13 3					
8	2374	11/08/99	2 7	35	1 4					
9	2374	11/08/99	3 3	35	4 1					
10	2374	11/08/99	3 3	35	4 1					
11	2374	11/08/99	3 3	35	4 1					
12	2374	11/08/99	5 3	35	13 3					
13	2374	11/08/99	2 7	35	1 4					
14	2374	11/08/99	3 3	35	4 1					
15	2374	11/08/99	6 7	35	19 7					
16	2374	11/08/99	5 3	35	13 3					
17	2374	11/08/99	3 3	35	4 1					
18	2374	11/08/99	5 3	35	13 3					
19	2374	11/08/99	7 3	35	22 5					
20	2374	11/08/99	2 7	35	1.4					
21	2378	12/13/99	4 0	34	7 1					
22	2378	12/13/99	8 7	34	28 0					
23	2378	12/13/99	5 3	34	12 9					
24	2378	12/13/99	4 7	34	10 2					
25	2378	12/13/99	8 7	34	28 0	2376	12/13/99	2 7	30	6.3
26	2378	12/13/99	8 7	34	28 0	2376	12/13/99	8.7	30	36.2
27	2378	12/13/99	4 0	34	7 1					
28	2378	12/13/99	5 3	34	12 9					
29	2378	12/13/99	4 7	34	10.2					
				MIN	1 4					
				MAX	28 0					
				MEAN	10 7					
				SD	8 1					
				Transuranic $DCGL_W$	100					

Survey Unit 77947 Building 779 Smear Results

Smear Location Number	Smear Results				
	Serial Number	Date Counted	Gross (cpm)	(dpm/100 cm^2)	MDA
1	814	11/9/99	1 0	2 7	6 5
2	814	11/9/99	2 0	5 7	6 5
3	1407	11/9/99	1 0	3 0	4 1
4	814	11/9/99	1 0	2 7	6 5
5	1407	11/9/99	0 5	1 5	4 1
6	814	11/9/99	0 5	1 2	6 5
7	1407	11/9/99	0 0	0 0	4 1
8	814	11/9/99	0 5	1 2	6 5
9	1407	11/9/99	0 5	1 5	4 1
10	814	11/9/99	1 0	2 7	6 5
11	1407	11/9/99	0 5	1 5	4 1
12	814	11/9/99	0 5	1 2	6 5
13	1407	11/9/99	0 5	1 5	4 1
14	814	11/9/99	0 5	1 2	6 5
15	1407	11/9/99	0 5	1 5	4 1
16	814	11/9/99	0 5	1 2	6 5
17	1407	11/9/99	0 5	1 5	4 1
18	1407	11/9/99	0 5	1 5	4 1
19	814	11/9/99	0 0	-0 3	6 5
20	1407	11/9/99	0 5	1 5	4 1
21	1160	12/13/99	0 0	-0 9	8 3
22	1160	12/13/99	0 0	-0 9	8 3
23	1160	12/13/99	0 5	0 6	8 3
24	1160	12/13/99	0 0	-0 9	8 3
25	1160	12/13/99	0 5	0 6	8 3
26	1160	12/13/99	0 5	0 6	8 3
27	1160	12/13/99	0 0	-0 9	8 3
28	1160	12/13/99	0 0	-0 9	8 3
29	1160	12/13/99	0 0	-0 9	8 3
			MIN	-0 9	
			MAX	5 7	
			MEAN	1 1	
			SD	1 5	
			Transuranic $DCGL_W$	20	

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Survey Unit 77947 Building 779 Paint/Solid Media Sample Results

LOCATION DESCRIPTION	SAMPLE LOCATION NUMBER	SITE SAMPLE ID	NUCLIDE	pCi/g	MDA (pCi/g)	WEIGHT (g)	SURFACE AREA (in²)	INDIVIDUAL NUCLIDE (dpm/100cm²)	ESTIMATED MDA (dpm/100cm²)	URANIUM TOTAL (dpm/100cm²) DCGL $_W$=5000	TRANSURANIC TOTAL (dpm/100cm²) DCGL $_W$=100
Column 1	1	001 001	U-233/234	0 450	0 093	25 40	40	9 8	2 0		
			U-235	0 041	0 055			0 9	1 2		
			U-238	0 520	0 079			11 4	1 7	22.1	
			Pu-239/240	0 070	0 093			1 5	2 0		
			Am-241	0 049	0 066			1 1	1 4		2.6
Column 1	2	002 001	U-233/234	0 574	0 075	25 89	40	12 8	1 7		
			U-235	0 077	0 052			1 7	1 2		
			U-238	0 453	0 042			10 1	0 9	24.6	
			Pu-239/240	0 018	0 049			0 4	1 1		
			Am-241	0 043	0 059			1 0	1 3		1.4
Column 2	3	003 001	U-233/234	0 334	0 104	29 11	40	8 4	2 6		
			U-235	0 068	0 061			1 7	1 5		
			U-238	0 614	0 088			15 4	2 2	25 4	
			Pu-239/240	-0 034	0 146			-0 9	3 7		
			Am-241	0 022	0 061			0 6	1 5		-0.3
Column 2	4	004 001	U-233/234	0 415	0 070	35 16	40	12 6	2 1		
			U-235	0 036	0 048			1 1	1 5		
			U-238	0 413	0 069			12 5	2 1	26.1	
			Pu-239/240	0 028	0 084			0 8	2 5		
			Am-241	0 044	0 059			1 3	1 8		2.2
Column 2	5	005 001	U-233/234	0 680	0 038	35 41	40	20 7	1 2		
			U-235	0 035	0 047			1 1	1 4		
			U-238	0 621	0 038			18 9	1 2	40.7	
			Pu-239/240	0 020	0 054			0 6	1 6		
			Am-241	0 017	0 045			0 5	1 4		1.1
Column 3	6	006 001	U-233/234	0 448	0 040	33 80	40	13 0	1 2		
			U-235	0 055	0 050			1 6	1 5		
			U-238	0 380	0 071			11 0	2 1	25.7	
			Pu-239/240	0 093	0 097			2 7	2 8		
			Am-241	0 000	0 051			0 0	1 5		2.7
Column 4	7	007 001	U-233/234	0 393	0 039	30 08	40	10 2	1 0		
			U-235	-0 007	0 086			-0 2	2 2		
			U-238	0 481	0 082			12 4	2 1	22.4	
			Pu-239/240	0 343	0 044			8 9	1 1		
			Am-241	0 062	0 056			1 6	1 4		10 5

Survey Unit 77947 Building 779 Paint/Solid Media Sample Results

LOCATION DESCRIPTION	SAMPLE LOCATION NUMBER	SITE SAMPLE ID	NUCLIDE	pCi/g	MDA (pCi/g)	WEIGHT (g)	SURFACE AREA (in^2)	INDIVIDUAL NUCLIDE ($dpm/100cm^2$)	ESTIMATED MDA ($dpm/100cm^2$)	URANIUM TOTAL ($dpm/100cm^2$) $DCGL_W$=5000	TRANSURANIC TOTAL ($dpm/100cm^2$) $DCGL_W$=100
Column 4	8	008 001	U-233/234	0 709	0 082	39 47	40	24 1	2 8		
			U-235	0 118	0 101			4 0	3 4		
			U-238	0 706	0 081			24 0	2 8	52.1	
			Pu-239/240	-0 017	0 123			-0 6	4 2		
			Am-241	0 035	0 048			1 2	1 6		0.6
Column 5	9	009 001	U-233/234	0 612	0 091	53 48	40	28 2	4 2		
			U-235	0 119	0 054			5 5	2 5		
			U-238	0 472	0 076			21 7	3 5	55.3	
			Pu-239/240	0 046	0 084			2 1	3 9		
			Am-241	0 055	0 050			2 5	2 3		4.6
Column 5	10	010 001	U-233/234	0 606	0 089	49 43	40	25 8	3 8		
			U-235	0 115	0 062			4 9	2 6		
			U-238	0 610	0 050			25 9	2 1	56 6	
			Pu-239/240	1 250	0 079			53 2	3 4		
			Am-241	0 170	0 057			7 2	2 4		60.4
Column 5	11	011 001	U-233/234	0 341	0 042	39 15	40	11 5	1 4		
			U-235	0 115	0 052			3 9	1 8		
			U-238	0 442	0 074			14 9	2 5	30.2	
			Pu-239/240	0 006	0 107			0 2	3 6		
			Am-241	0 041	0 056			1 4	1 9		1.6
Column 5	12	012 001	U-233/234	0 435	0 044	31 18	40	11 7	1 2		
			U-235	0 020	0 054			0 5	1 4		
			U-238	0 436	0 091			11 7	2 4	23.9	
			Pu-239/240	0 009	0 071			0 2	1 9		
			Am-241	0 034	0 047			0 9	1 3		1.2
Column 5	13	013 001	U-233/234	0 413	0 043	20 05	40	7 1	0 7		
			U-235	0 071	0 094			1 2	1 6		
			U-238	0 617	0 043			10 6	0 7	19.0	
			Pu-239/240	0 026	0 077			0 4	1 3		
			Am-241	0 016	0 042			0 3	0 7		0.7
Column 5	14	014 001	U-233/234	0 451	0 044	14 11	40	5 5	0 5		
			U-235	0 091	0 095			1 1	1 2		
			U-238	0 433	0 043			5 3	0 5	11.8	
			Pu-239/240	0 113	0 123			1 4	1 5		
			Am-241	0 030	0 082			0 4	1 0		1 7

Survey Unit 77947 Building 779 Paint/Solid Media Sample Results

LOCATION DESCRIPTION	SAMPLE LOCATION NUMBER	SITE SAMPLE ID	NUCLIDE	pCi/g	MDA (pCi/g)	WEIGHT (g)	SURFACE AREA (in^2)	INDIVIDUAL NUCLIDE ($dpm/100cm^2$)	ESTIMATED MDA ($dpm/100cm^2$)	URANIUM TOTAL ($dpm/100cm^2$) $DCGL_W$=5000	TRANSURANIC TOTAL ($dpm/100cm^2$) $DCGL_W$=100
Ceiling	16	016 001	U-233/234	0 723	0 041	6 60	40	4 1	0 2		
			U-235	0 019	0 050			0 1	0 3		
			U-238	0 630	0 041			3 6	0 2	**7 8**	
			Pu-239/240	0 000	0 042			0 0	0 2		
			Am-241	0 029	0 077			0 2	0 4		**0.2**
Ceiling	18	018 001	U-233/234	0 589	0 044	6 86	40	3 5	0 3		
			U-235	0 061	0 055			0 4	0 3		
			U-238	0 597	0 078			3 5	0 5	**7 4**	
			Pu-239/240	0 040	0 104			0 2	0 6		
			Am-241	0 048	0 065			0 3	0 4		**0.5**
Ceiling	20	020 001	U-233/234	0 019	0 053	9 33	40	0 2	0 4		
			U-235	0 120	0 065			1 0	0 5		
			U-238	0 101	0 109			0 8	0 9	**1.9**	
			Pu-239/240	-0 007	0 083			-0 1	0 7		
			Am-241	0 027	0 074			0 2	0 6		**0.2**

MIN	**1 9**	**-0 3**
MAX	**56 6**	**60 4**
MEAN	**26 7**	**5 4**
SD	**16 3**	**14 4**
$DCGL_W$ =	**5000**	**100**

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ATTACHMENT U

Survey Unit 77948 Data Summary

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SURVEY UNIT 77948 DATA

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Survey Unit 77948 Data Summary

Total Surface Activity Measurements

	83	83	
	Number Required	Number Obtained	
MIN	-7 3	dpm/100 cm^2	
MAX	65 1	dpm/100 cm^2	
MEAN	18 4	dpm/100 cm^2	
STD DEV	14 5	dpm/100 cm^2	
TRANSURANIC DCGL$_W$	100	dpm/100 cm^2	

Removable Activity Measurements

	83	83	
	Number Required	Number Obtained	
MIN	-1 2	dpm/100 cm^2	
MAX	3 9	dpm/100 cm^2	
MEAN	0 1	dpm/100 cm^2	
STD DEV	1 3	dpm/100 cm^2	
TRANSURANIC DCGL$_W$	20	dpm/100 cm^2	

Media Sample Activity

Media Samples	N/A	N/A
	Number Required	Number Obtained

Total Uranium Results

MIN	N/A	dpm/100 cm^2
MAX	N/A	dpm/100 cm^2
MEAN	N/A	dpm/100 cm^2
STD DEV	N/A	dpm/100 cm^2
DCGL$_W$	N/A	dpm/100 cm^2

Total Transuranic Results

MIN	N/A	dpm/100 cm^2
MAX	N/A	dpm/100 cm^2
MEAN	N/A	dpm/100 cm^2
STD DEV	N/A	dpm/100 cm^2
DCGL$_W$	N/A	dpm/100 cm^2

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Survey Unit 77948 Building 779 Total Surface Contamination Results

Total Surface Activity Survey						Quality Control Survey				
Meter Model	NE Electra w/ DP6 Probe			Local Area Bkgd (cpm)		NE Electra w/ DP6 Probe			Local Area Bkgd (cpm)	
Instrument #	2380	1262	N/A	2 1		1826	N/A	N/A	2 3	
Cal Due Date	2/29/00	5/30/00	N/A			4/13/00	N/A	N/A		
Efficiency (c/d)	0 193	0 204	N/A			0 213	N/A	N/A		
	Total Surface Activity Measurements					Quality Control Measurements				
Sample Location Number	Serial #	Date	(cpm)	MDA (dpm/100 cm²)	(dpm/100 cm²)	Serial #	Date	(cpm)	MDA (dpm/100 cm²)	(dpm/100 cm²)
1	2380	12/21/99	5 3	38	16 5					
2	2380	12/21/99	4 7	38	13 4					
3	2380	12/21/99	2 7	38	3 0					
4	2380	12/21/99	2 7	38	3 0					
5	2380	12/21/99	7 3	38	26.8					
6	2380	12/21/99	5 3	38	16 5					
7	2380	12/21/99	6 7	38	23 7					
8	2380	12/21/99	6 0	38	20 1					
9	2380	12/21/99	6 0	38	20 1					
10	2380	12/21/99	6 0	38	20 1					
11	2380	12/21/99	6 0	38	20 1					
12	2380	12/21/99	5 3	38	16 5					
13	2380	12/21/99	3 3	38	6.2					
14	2380	12/21/99	7 3	38	26 8					
15	1262	12/22/99	6 7	36	22 5					
16	2380	12/21/99	3 3	38	6.2					
17	2380	12/21/99	6 0	38	20 1					
18	2380	12/21/99	8 7	38	34 1					
19	2380	12/21/99	2 7	38	3 0					
20	2380	12/21/99	5 3	38	16 5					
21	2380	12/21/99	3 3	38	6.2					
22	2380	12/21/99	3 3	38	6.2					
23	1262	12/22/99	5 3	36	15 6					
24	1262	12/22/99	8 7	36	32 3					
25	2380	12/21/99	2 7	38	3 0					
26	2380	12/21/99	7 3	38	26 8					
27	2380	12/21/99	6 7	38	23 7					
28	2380	12/21/99	4 7	38	13.4					
29	2380	12/21/99	5 3	38	16 5					
30	2380	12/21/99	4 7	38	13 4					
31	2380	12/21/99	5 3	38	16.5					
32	2380	12/21/99	5 3	38	16.5					
33	1262	12/22/99	8 0	36	28 8					
34	1262	12/22/99	6 7	36	22.5					
35	1262	12/22/99	7 3	36	25.4					
36	1262	12/22/99	12 7	36	51.8	1826	12/22/99	9 3	35	33 0

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Survey Unit 77948 Building 779 Total Surface Contamination Results

37	1262	12/22/99	5 3	36	15 6					
38	1262	12/22/99	11 3	36	45 0	1826	12/22/99	4 7	35	11.4
39	1262	12/22/99	11 3	36	45 0					
40	1262	12/22/99	4 0	36	9.2					
41	2380	12/21/99	3 3	38	6.2					
42	1262	12/22/99	4 7	36	12 7					
43	2380	12/21/99	4 7	38	13.4					
44	2380	12/21/99	4 0	38	9 8					
45	2380	12/21/99	5 3	38	16 5					
46	1262	12/22/99	4 7	36	12 7					
47	1262	12/22/99	10 7	36	42 0					
48	2380	12/21/99	14 7	38	65 1	1826	12/22/99	2 7	35	2 1
49	1262	12/22/99	6 7	36	22 5					
50	2380	12/21/99	3 3	38	6.2					
51	1262	12/22/99	3 3	36	5 8					
52	2380	12/21/99	2 7	38	3 0					
53	2380	12/21/99	14 0	38	61 5	1826	12/22/99	6 7	35	20.8
54	2380	12/21/99	1 3	38	-4 2					
55	2380	12/21/99	2 7	38	3 0					
56	2380	12/21/99	10 0	38	40.8					
57	2380	12/21/99	10 0	38	40 8					
58	2380	12/21/99	9 3	38	37 2					
59	1262	12/22/99	4 7	36	12 7					
60	2380	12/21/99	2 7	38	3 0					
61	2380	12/21/99	7 3	38	26 8					
62	1262	12/22/99	5 3	36	15 6					
63	1262	12/22/99	4 7	36	12 7					
64	1262	12/22/99	2 0	36	-0 5					
65	2380	12/21/99	4 0	38	9 8					
66	2380	12/21/99	4 7	38	13.4					
67	1262	12/22/99	4 7	36	12 7					
68	1262	12/22/99	6 0	36	19 0					
69	2380	12/21/99	2 7	38	3 0					
70	2380	12/21/99	0 7	38	7.3					
71	2380	12/21/99	5 3	38	16.5					
72	2380	12/21/99	2 0	38	-0 6					
73	2380	12/21/99	2 0	38	-0 6					
74	2380	12/21/99	9 3	38	37 2					
75	2380	12/21/99	11 3	38	47 5	1826	12/22/99	9.3	35	33.0
76	2380	12/21/99	4 0	38	9.8					
77	2380	12/21/99	5 3	38	16.5					
78	2380	12/21/99	6 0	38	20 1					
79	2380	12/21/99	5 3	38	16 5					
80	2380	12/21/99	2 7	38	3 0					

Survey Unit 77948 Building 779 Total Surface Contamination Results

81	2380	12/21/99	6 7	38	23 7
82	2380	12/21/99	9 3	38	37 2
83	2380	12/21/99	5 3	38	16 5
				MIN	7 3
				MAX	65 1
				MEAN	18 4
				SD	14 5
				Transuranic $DCGL_W$	100

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Survey Unit 77948 Building 779 Smear Results

Smear Location Number	Smear Results				
	Serial Number	Date Counted	Gross (cpm)	(dpm/100 cm^2)	MDA
1	814	12/21/99	1 0	**2 4**	7 5
2	1160	12/21/99	0 0	**-0 9**	8 3
3	1407	12/21/99	1 0	**1 8**	8 9
4	814	12/21/99	0 0	**-0 6**	7 5
5	1160	12/21/99	0 0	**-0 9**	8 3
6	1407	12/21/99	1 0	**1 8**	8 9
7	814	12/21/99	1 5	**3 9**	7 5
8	1160	12/21/99	0 0	**-0 9**	8 3
9	1407	12/21/99	0 5	**0 3**	8 9
10	814	12/21/99	0 0	**-0 6**	7 5
11	1160	12/21/99	0 0	**-0 9**	8 3
12	1407	12/21/99	0 5	**0 3**	8 9
13	814	12/21/99	1 0	**2 4**	7 5
14	1160	12/21/99	0 0	**-0 9**	8 3
15	1407	12/21/99	0 5	**0 3**	8 9
16	814	12/21/99	0 0	**-0 6**	7 5
17	1160	12/21/99	0 0	**-0 9**	8 3
18	1407	12/21/99	0 0	**-1 2**	8 9
19	814	12/21/99	0 5	**0 9**	7 5
20	1160	12/21/99	0 0	**-0 9**	8 3
21	1407	12/21/99	0 0	**-1 2**	8 9
22	814	12/21/99	1 0	**2 4**	7 5
23	1160	12/21/99	0 5	**0 6**	8 3
24	1407	12/21/99	1 0	**1 8**	8 9
25	814	12/21/99	0 5	**0 9**	7 5
26	1160	12/21/99	0 5	**0 6**	8 3
27	1407	12/21/99	0 5	**0 3**	8 9
28	814	12/21/99	0 0	**-0 6**	7 5
29	1160	12/21/99	0 0	**-0 9**	8 3
30	1407	12/21/99	0 0	**-1 2**	8 9
31	814	12/21/99	0 0	**-0 6**	7 5
32	1160	12/21/99	0 0	**-0 9**	8 3
33	1407	12/21/99	0 0	**-1 2**	8 9
34	814	12/21/99	0 0	**-0 6**	7 5

Survey Unit 77948 Building 779 Smear Results

35	1160	12/21/99	0 0	-0 9	8 3
36	1407	12/21/99	0 5	0 3	8 9
37	814	12/21/99	0 5	0 9	7 5
38	1160	12/21/99	0 0	-0 9	8 3
39	1407	12/21/99	1 0	1 8	8 9
40	814	12/21/99	0 0	-0 6	7 5
41	1160	12/21/99	0 0	-0 9	8 3
42	1407	12/21/99	1 0	1 8	8 9
43	814	12/21/99	0 0	-0 6	7 5
44	1160	12/21/99	0 5	0 6	8 3
45	1407	12/21/99	1 0	1 8	8 9
46	814	12/21/99	0 0	-0 6	7 5
47	1160	12/21/99	0 0	-0 9	8 3
48	1407	12/21/99	0 5	0 3	8 9
49	814	12/21/99	1 0	2 4	7 5
50	1160	12/21/99	1 0	2 1	8 3
51	1407	12/21/99	1 0	1.8	8 9
52	814	12/21/99	0 5	0 9	7 5
53	1160	12/21/99	0 5	0 6	8 3
54	1407	12/21/99	0 0	-1 2	8 9
55	814	12/21/99	1 0	2 4	7 5
56	1160	12/21/99	0 0	-0 9	8 3
57	1407	12/21/99	1 0	1 8	8 9
58	814	12/21/99	1 0	2 4	7 5
59	1160	12/21/99	0 0	-0.9	8 3
60	1407	12/21/99	0 5	0.3	8 9
61	814	12/21/99	0 0	-0 6	7 5
62	1160	12/21/99	0 0	-0 9	8 3
63	1407	12/21/99	1 0	1 8	8 9
64	814	12/21/99	0 0	-0 6	7 5
65	1160	12/21/99	0 0	-0 9	8 3
66	1407	12/21/99	0 5	0 3	8 9
67	814	12/21/99	1 0	2 4	7 5
68	1160	12/21/99	0 0	-0.9	8 3
69	1407	12/21/99	0 0	-1.2	8 9
70	814	12/21/99	0 0	-0 6	7 5
71	1160	12/21/99	0 0	-0 9	8 3
72	1407	12/21/99	0 0	-1 2	8 9

Survey Unit 77948 Building 779 Smear Results

73	814	12/21/99	0 0	**-0 6**	7 5
74	1160	12/21/99	0 0	**-0 9**	8 3
75	1407	12/21/99	1 0	**1 8**	8 9
76	814	12/21/99	0 0	**-0 6**	7 5
77	1160	12/21/99	0 0	**-0 9**	8 3
78	1407	12/21/99	0 0	**-1 2**	8 9
79	814	12/21/99	0 0	**-0 6**	7 5
80	1160	12/21/99	0 5	**0 6**	8 3
81	1407	12/21/99	0 0	**-1 2**	8 9
82	814	12/21/99	0 0	**-0 6**	7 5
83	1160	12/21/99	0 0	**-0 9**	8 3
			MIN	-1 2	
			MAX	**3 9**	
			MEAN	**0 1**	
			SD	1 3	
			Transuranic $DCGL_W$	**20**	

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ATTACHMENT V

Survey Unit 77950 Data Summary

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SURVEY UNIT 77950 DATA

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Survey Unit 77950 Data Summary

Total Surface Activity Measurements

	16	22	
	Number Required	Number Obtained	
MIN	-2 8		dpm/100 cm^2
MAX	60 1		dpm/100 cm^2
MEAN	14 8		dpm/100 cm^2
STD DEV	13 1		dpm/100 cm^2
TRANSURANIC DCGL$_W$	100		dpm/100 cm^2

Removable Activity Measurements

	16	22	
	Number Required	Number Obtained	
MIN	-1 2		dpm/100 cm^2
MAX	3 9		dpm/100 cm^2
MEAN	0 2		dpm/100 cm^2
STD DEV	1 4		dpm/100 cm^2
TRANSURANIC DCGL$_W$	20		dpm/100 cm^2

Media Sample Activity

	N/A	N/A
Media Samples	Number Required	Number Obtained

Total Uranium Results

MIN	N/A	dpm/100 cm^2
MAX	N/A	dpm/100 cm^2
MEAN	N/A	dpm/100 cm^2
STD DEV	N/A	dpm/100 cm^2
DCGL$_W$	N/A	dpm/100 cm^2

Total Transuranic Results

MIN	N/A	dpm/100 cm^2
MAX	N/A	dpm/100 cm^2
MEAN	N/A	dpm/100 cm^2
STD DEV	N/A	dpm/100 cm^2
DCGL$_W$	N/A	dpm/100 cm^2

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Survey Unit 77950 Building 779 Total Surface Contamination Results

Total Surface Activity Survey						Quality Control Survey				
Meter Model	NE Electra w/ DP6 Probe			Local Area Bkgd (cpm)		NE Electra w/ DP6 Probe			Local Area Bkgd (cpm)	
Instrument #	2374	N/A	N/A	1 9		1837	N/A	N/A	4 0	
Cal. Due Date	2/29/00	N/A	N/A			2/13/00	N/A	N/A		
Efficiency (c/d)	0 218	N/A	N/A			0 213	N/A	N/A		
	Total Surface Activity Measurements					Quality Control Measurements				
Sample Location Number	Serial #	Date	(cpm)	MDA (dpm/100 cm²)	(dpm/100 cm²)	Serial #	Date	(cpm)	MDA (dpm/100 cm²)	(dpm/100 cm²)
1	2374	12/01/99	3 3	32	6.4					
2	2374	12/01/99	3 3	32	6 4					
3	2374	12/01/99	6 7	32	22 0					
4	2374	12/01/99	5 3	32	15 6					
5	2374	12/01/99	3 3	32	6 4					
6	2374	12/01/99	7 3	32	24.8	1837	12/01/99	8 0	44	18.8
7	2374	12/01/99	1 3	32	2 8					
8	2374	12/01/99	6 7	32	22 0					
9	2374	12/01/99	5 3	32	15 6					
10	2374	12/01/99	4 0	32	9 6					
11	2374	12/01/99	3 3	32	6 4					
12	2374	12/01/99	5 3	32	15 6					
13	2374	12/01/99	7 3	32	24 8					
14	2374	12/01/99	6 0	32	18 8					
15	2374	12/01/99	15 0	32	60 1	1837	12/01/99	12 0	44	37.6
16	2374	12/01/99	4 0	32	9 6					
17	2374	12/01/99	6 7	32	22 0					
18	2374	12/01/99	6 7	32	22 0					
19	2374	12/01/99	4 7	32	12 8					
20	2374	12/01/99	2 7	32	3 7					
21	2374	12/01/99	3 3	32	6.4					
22	2374	12/01/99	1 3	32	2 8					
				MIN	2 8					
				MAX	60 1					
				MEAN	14 8					
				SD	13 1					
				Transuranic $DCGL_W$	100					

Survey Unit 77950 Building 779 Smear Results

Smear Location Number	Smear Results				
	Serial Number	Date Counted	Gross (cpm)	(dpm/100 cm^2)	MDA
1	814	12/1/99	1 0	2 4	7 5
2	1160	12/1/99	0 0	-1 2	8 9
3	1407	12/1/99	0 0	-0 6	7 5
4	814	12/1/99	1 5	3 9	7 5
5	1160	12/1/99	0 5	0 3	8 9
6	1407	12/1/99	0 5	0.9	7 5
7	814	12/1/99	0 0	-0 6	7 5
8	1160	12/1/99	0 5	0 3	8 9
9	1407	12/1/99	0 0	-0 6	7 5
10	814	12/1/99	0 5	0 9	7 5
11	1160	12/1/99	0 0	-1 2	8 9
12	1407	12/1/99	0 0	-0 6	7 5
13	814	12/1/99	0 0	-0 6	7 5
14	1160	12/1/99	0 5	0 3	8 9
15	1407	12/1/99	1 0	2 4	7 5
16	814	12/1/99	0 0	-0 6	7 5
17	1160	12/1/99	0 0	-1 2	8 9
18	1407	12/1/99	0 5	0 9	7 5
19	814	12/1/99	0 5	0 9	7 5
20	1160	12/1/99	0 0	-1 2	8 9
21	1407	12/1/99	0 0	-0 6	7 5
22	814	12/1/99	0 0	-0 6	7 5
			MIN	-1 2	
			MAX	3 9	
			MEAN	0 2	
			SD	1 4	
			Transuranic $DCGL_W$	20	

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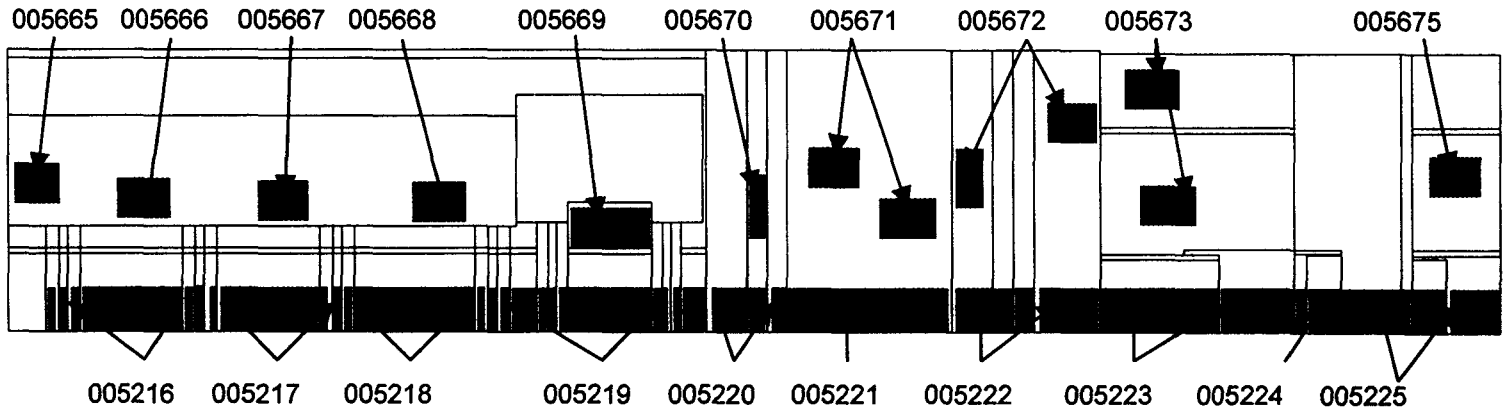
ATTACHMENT W

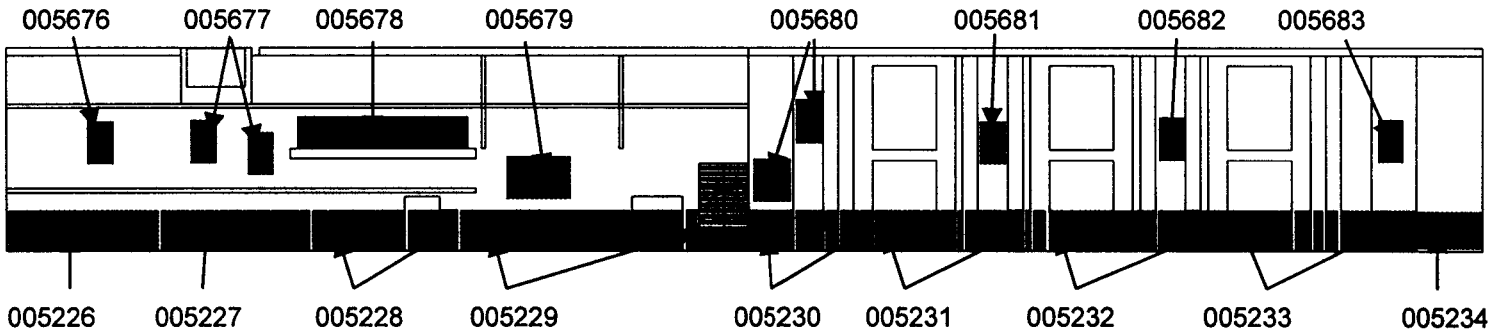
Survey Unit Overlay Maps

Survey Unit: 77905
B779 Exterior West Wall
Map 1 of 2



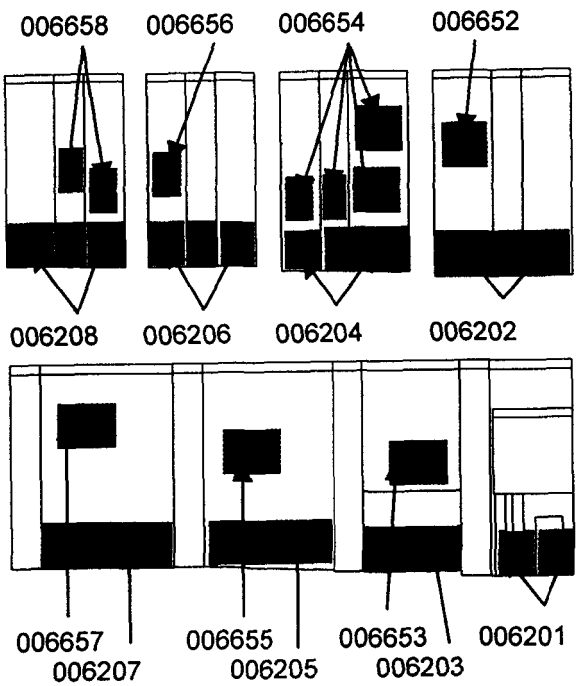
248

Survey Unit: 77905
B779 Exterior South Wall
Page 2 of 2



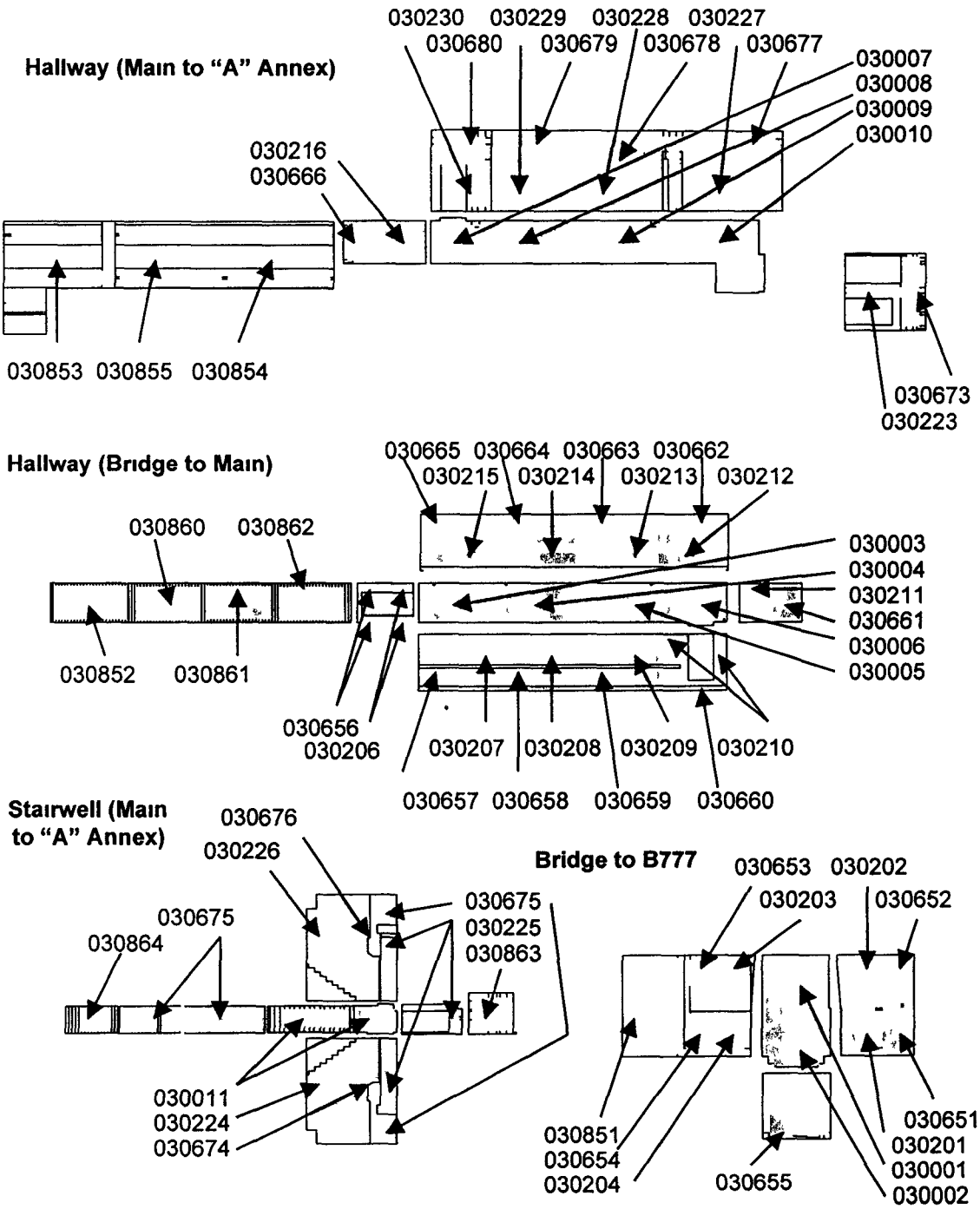
249

Survey Unit 77906
B779 Exterior West Wall
Map 1 of 1



250

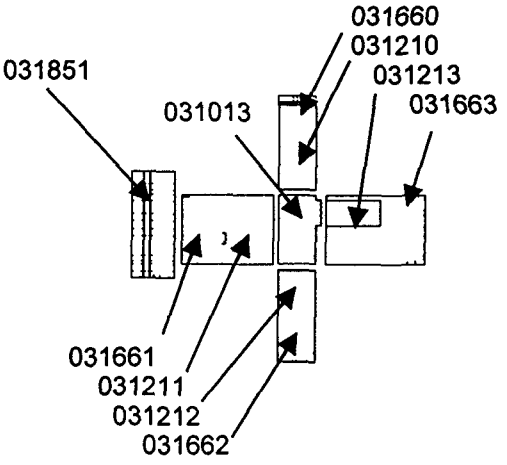
Survey Unit: 77930
B779 Second Floor Hallway to Annex "A"/Bridge to B777
Map 1 of 1



251

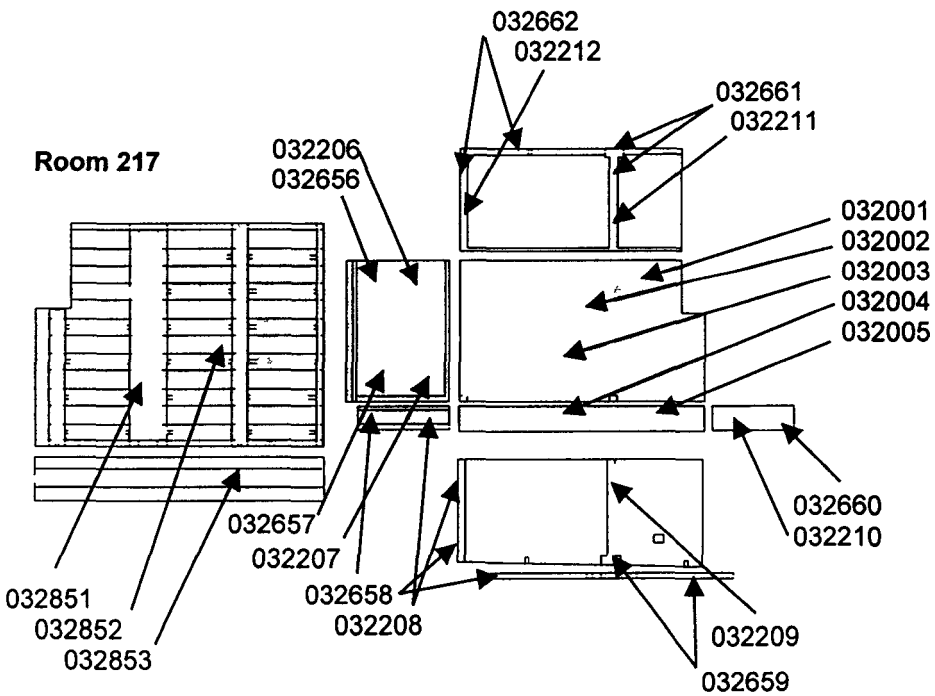
Survey Unit. 77931
B779 Second Floor Admin Bldg
Room 222A
Map 1 of 1

Room 222A



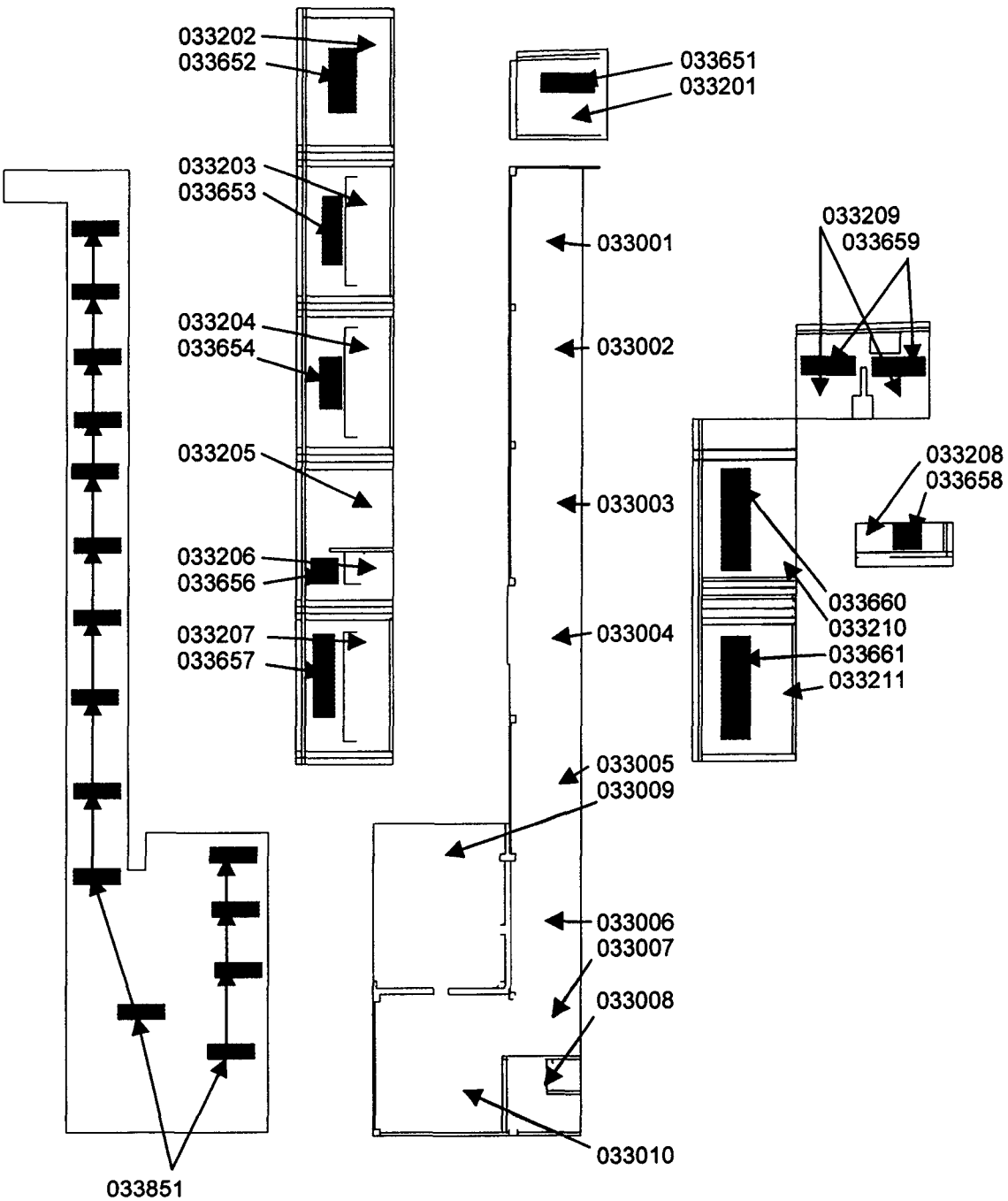
257

Survey Unit 77932
B779 Second Floor Admin Bldg Room 217
Map 1 of 1



253

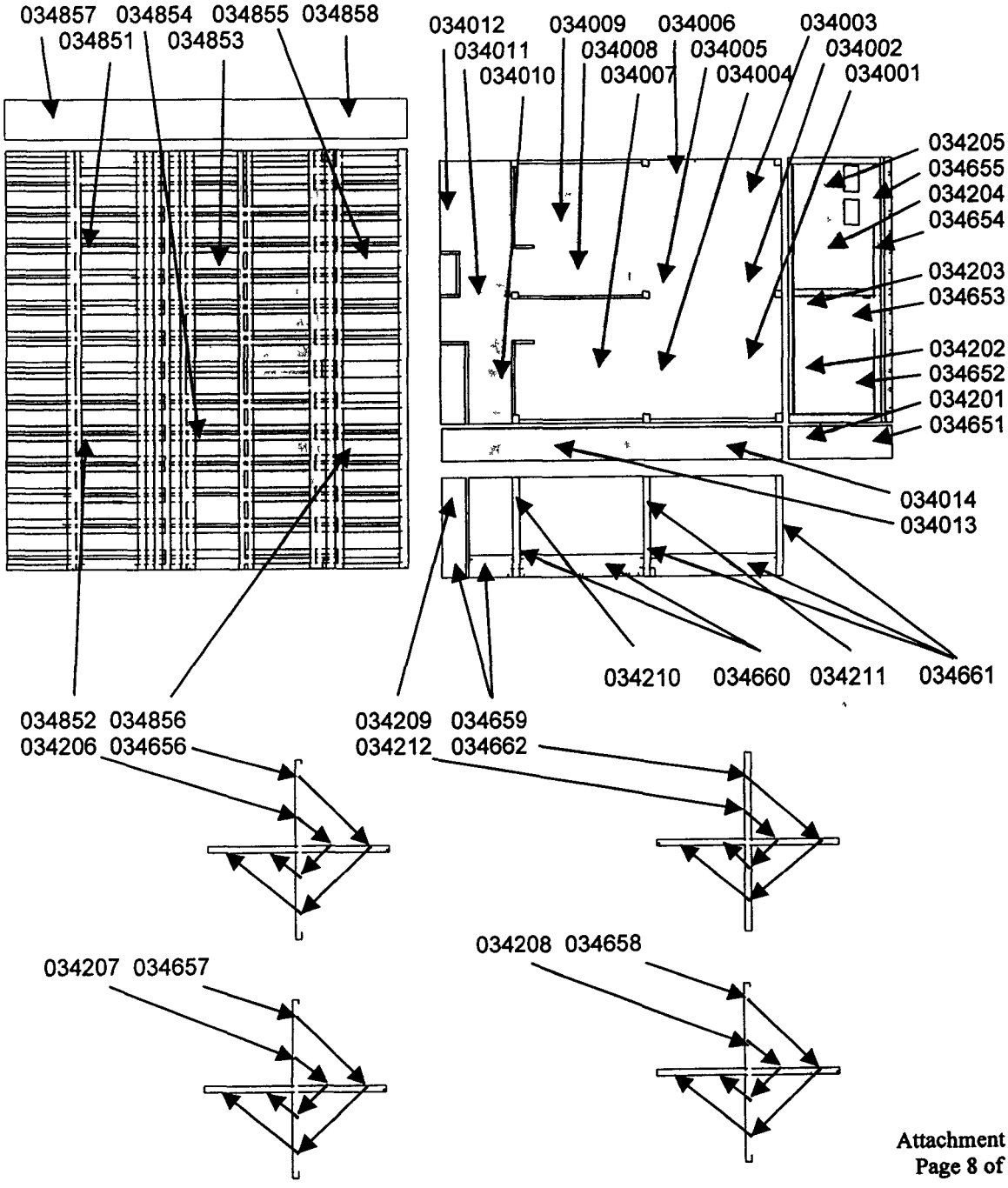
Survey Unit: 77933
B779 Second Floor Main Building
Rooms 219, 221, 221A, 221B, 221C, 223, 225229, 230, 231, 232, 233, 235, 271, 273, 274, 275 & 277
Map 1 of 1



254

Survey Unit 77934
B779 Second Floor Main Bldg
Rooms 218 & 220
Map 1 of 1

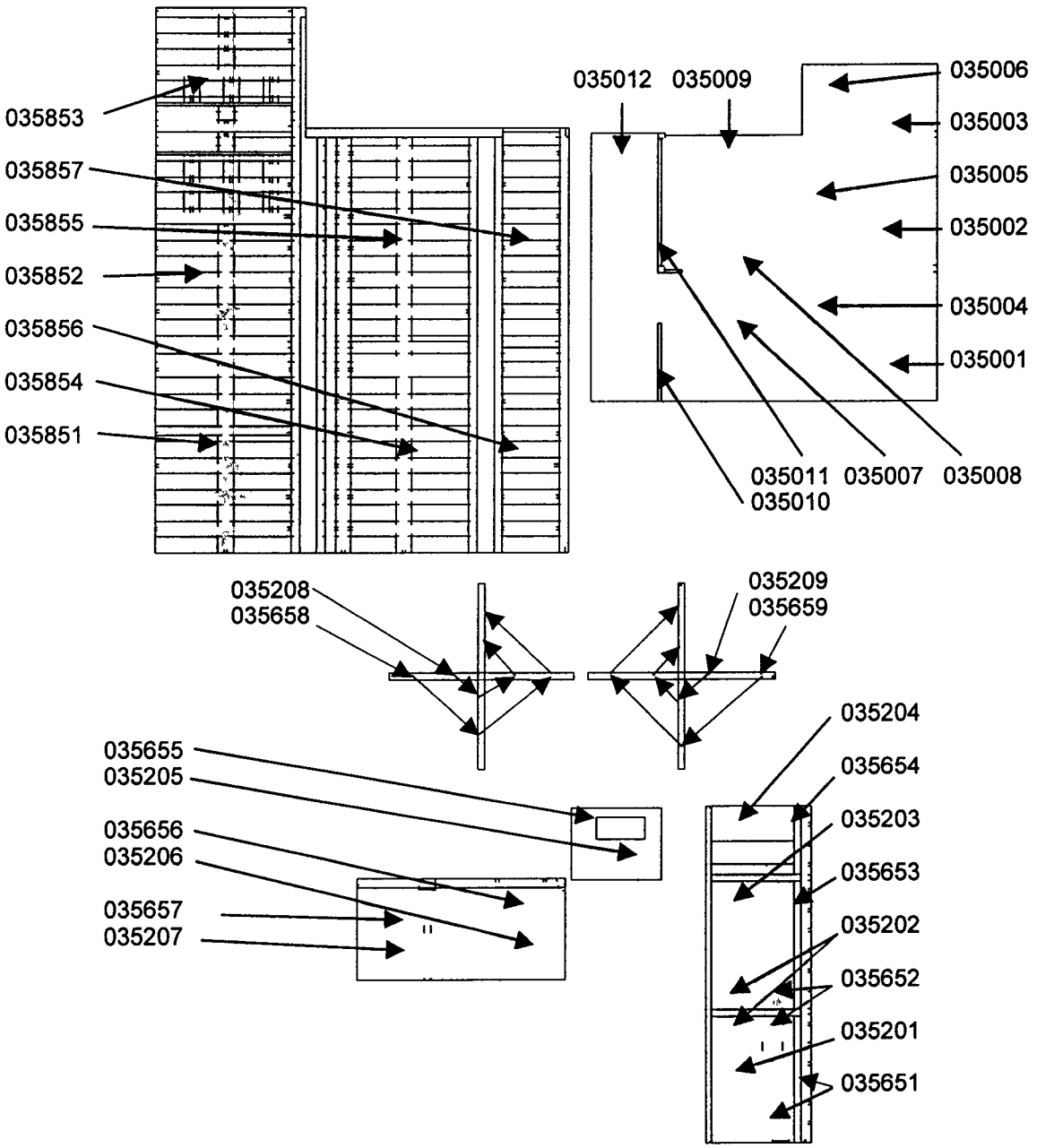
Rooms 218 & 220



255

Survey Unit· 77935
B779 Second Floor Main Bldg Room 222
Map 1 of 1

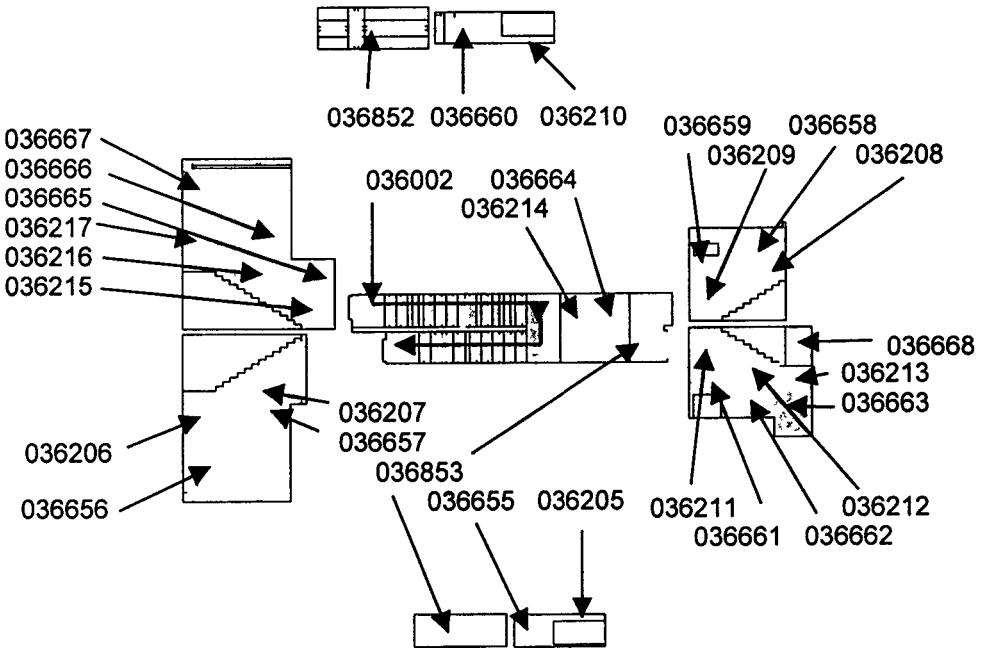
Room 222



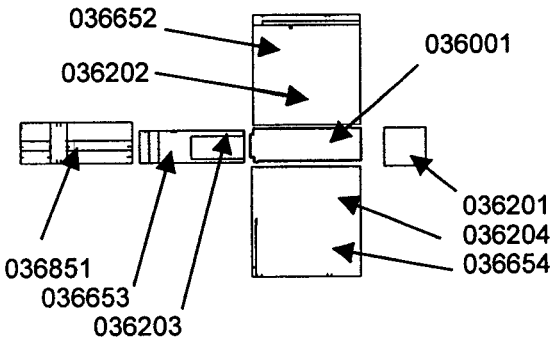
256

Survey Unit. 77936
B779 Second Floor Main Bldg
Rooms 224 & 226
Map 1 of 1

Room 226

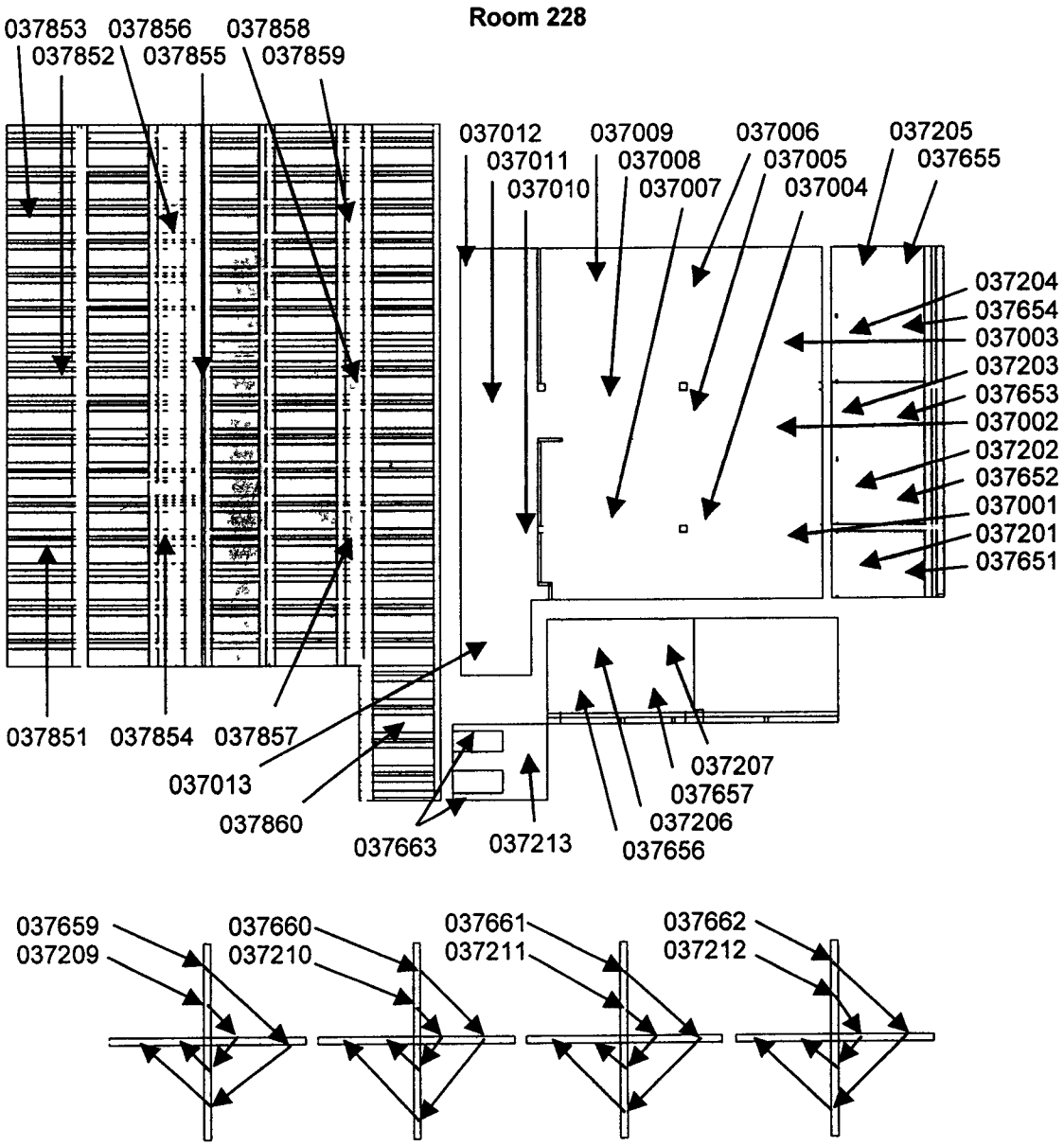


Room 224



257

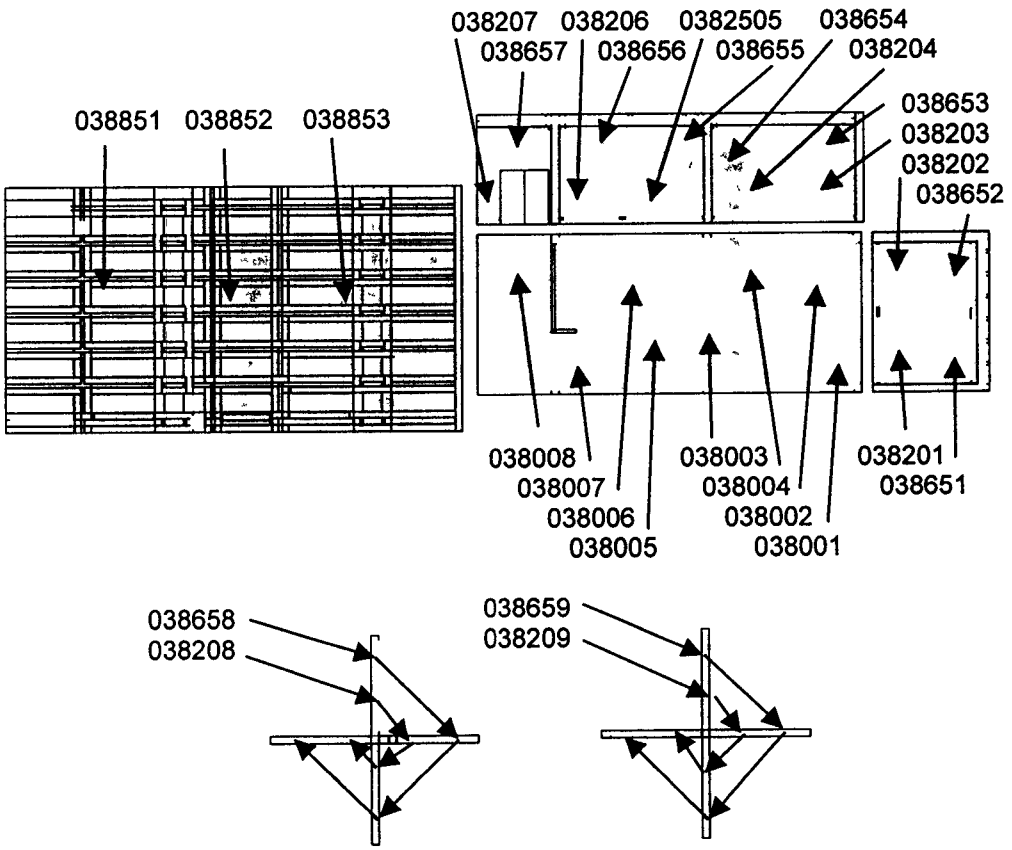
Survey Unit: 77937
B779 Second Floor Main Bldg
Room 228
Map 1 of 1



258

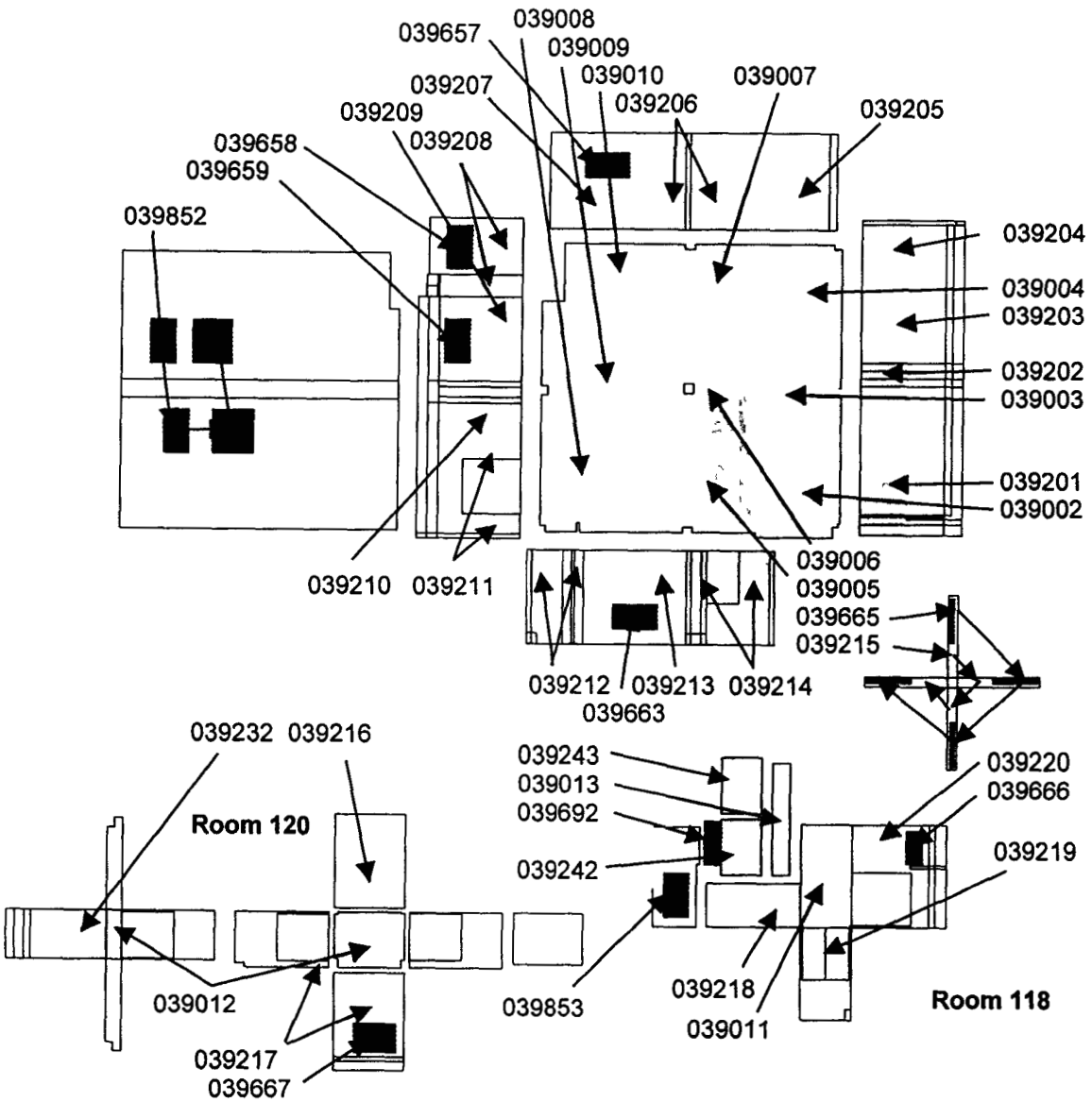
Survey Unit: 77938
B779 Second Floor Main Bldg
Rooms 234, 234A &134B
Map 1 of 1

Rooms 234, 234A & 234B

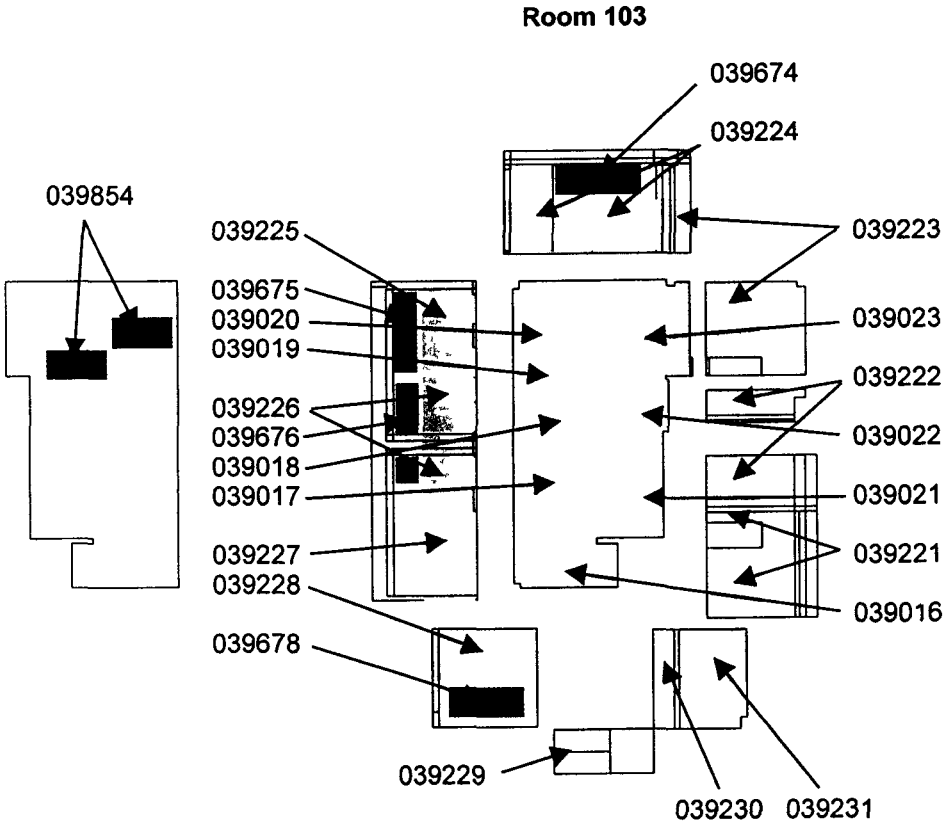


259

Survey Unit· 77939
B779 First Floor Main Bldg Rooms
118, 120, 121, 121A & 121B
Map 1 of 4



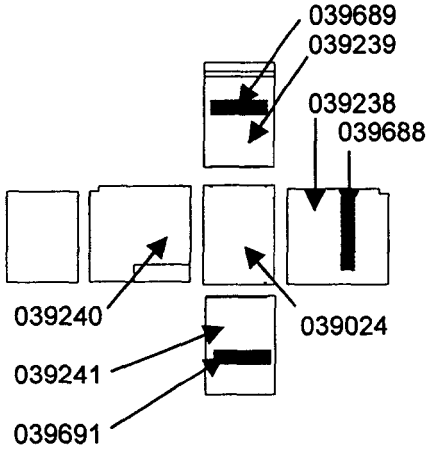
Survey Unit. 77939
B779 First Floor Main Bldg Room 103
Map 2 of 4



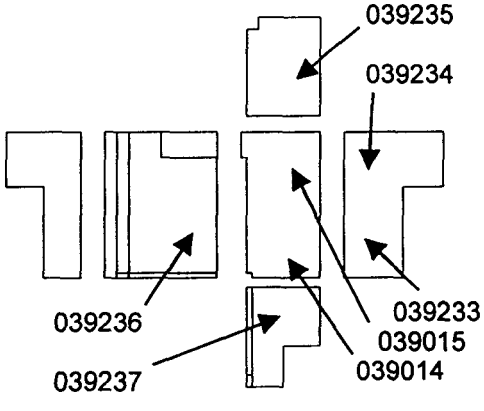
241

Survey Unit 77939
B779 First Floor Main Bldg
Rooms 103A & 103B
Map 3 of 4

Room 103B



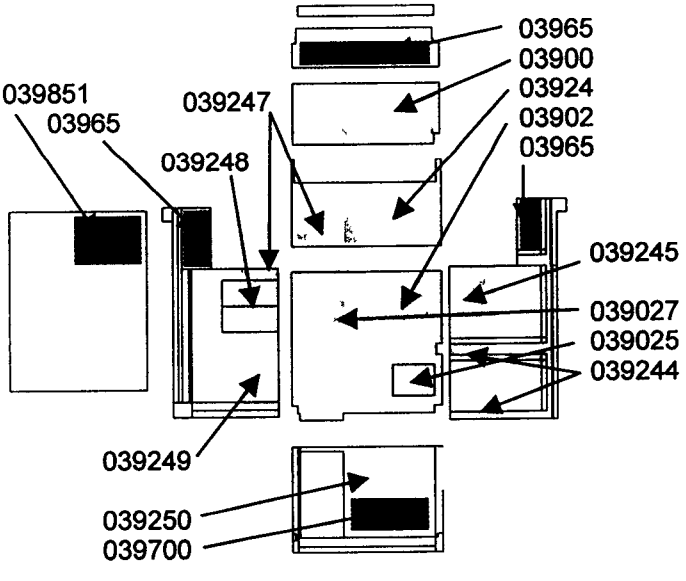
Room 103A



262

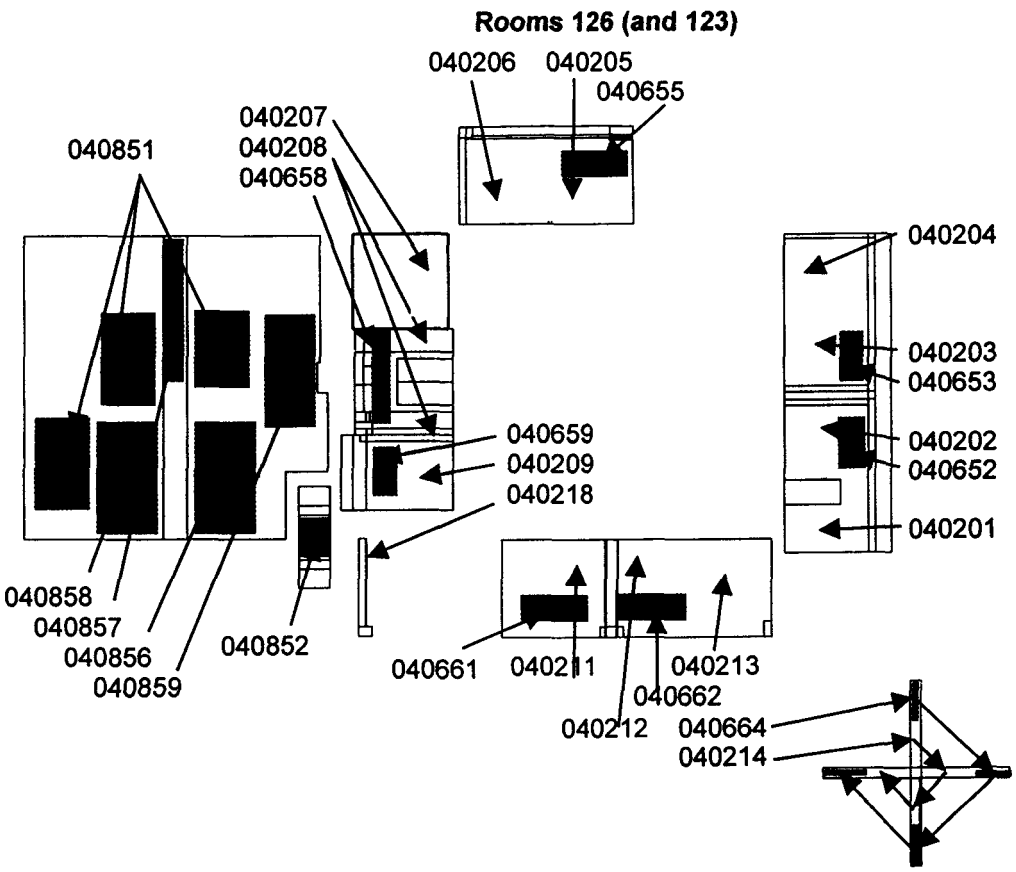
Survey Unit. 7793
B779 First Floor Main Bldg Room 173
Map 4 of 4

Room 17



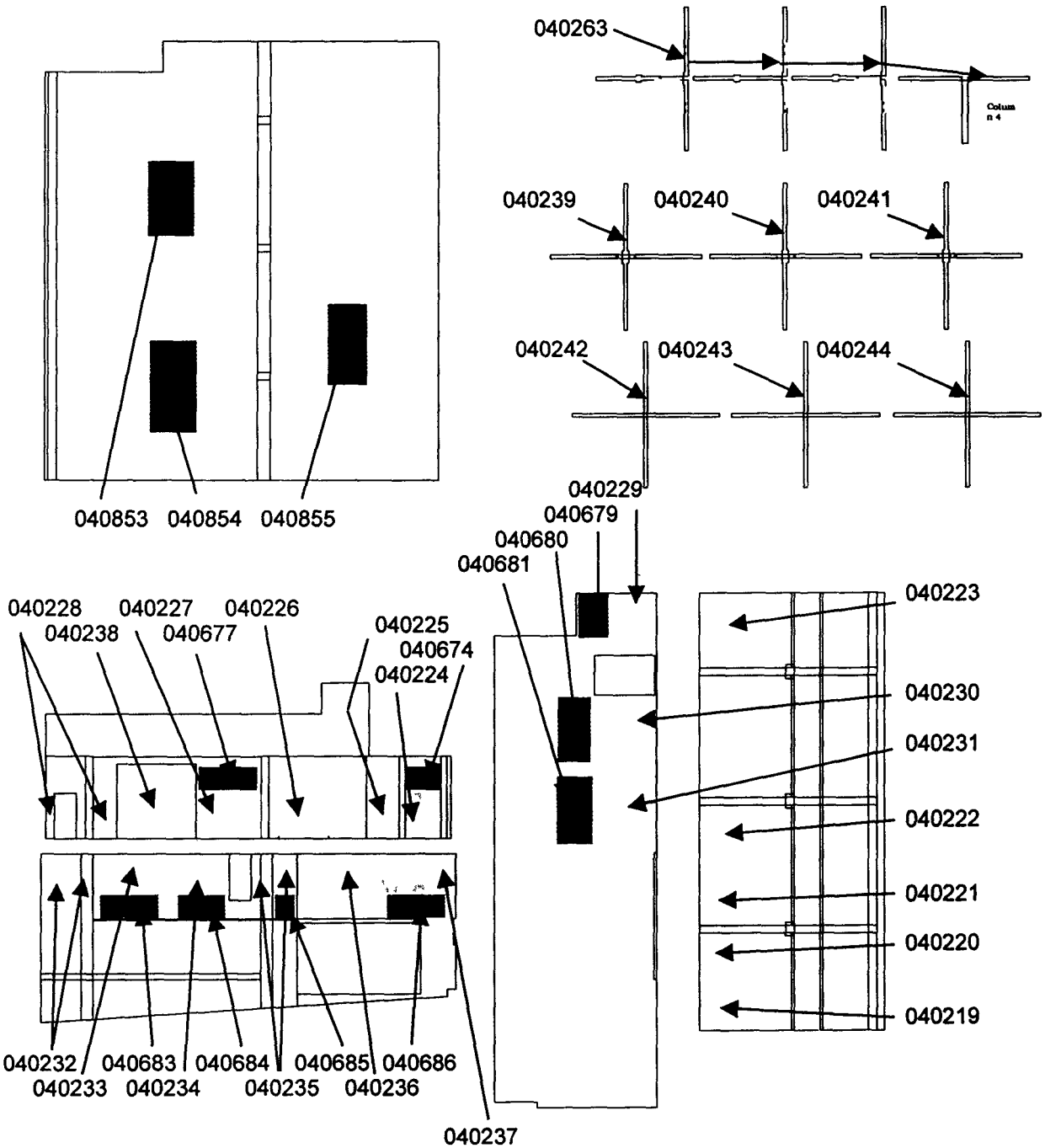
263

Survey Unit: 77940
B779 First Floor Main Bldg
Walls & Ceilings in Rooms 123 & 126
Map 1 of 3



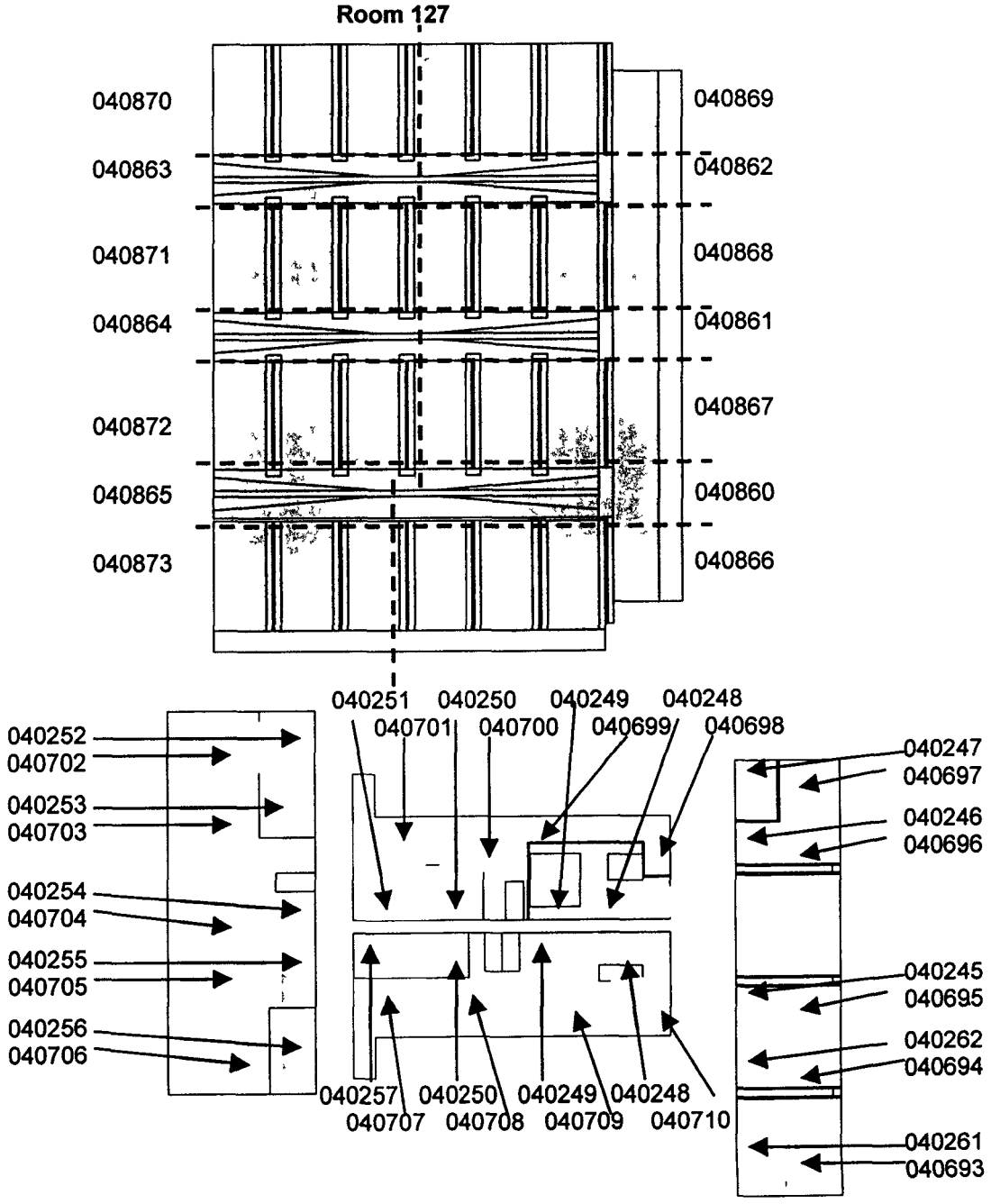
244

Survey Unit: 77940
B779 First Floor Main Bldg
Walls & Ceiling in Room 142
Map 2 of 3



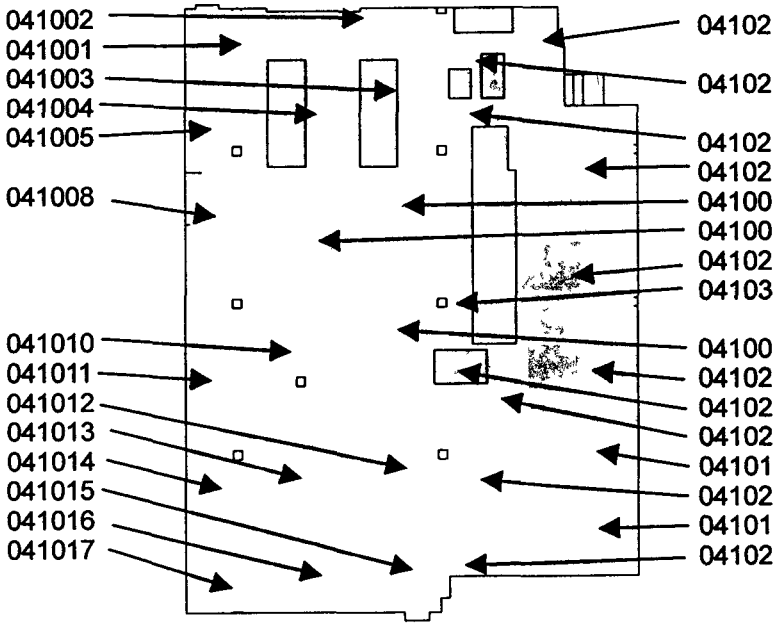
265

Survey Unit: 77940
B779 First Floor Main Bldg Room 127
Walls & Ceilings
Map 3 of 3



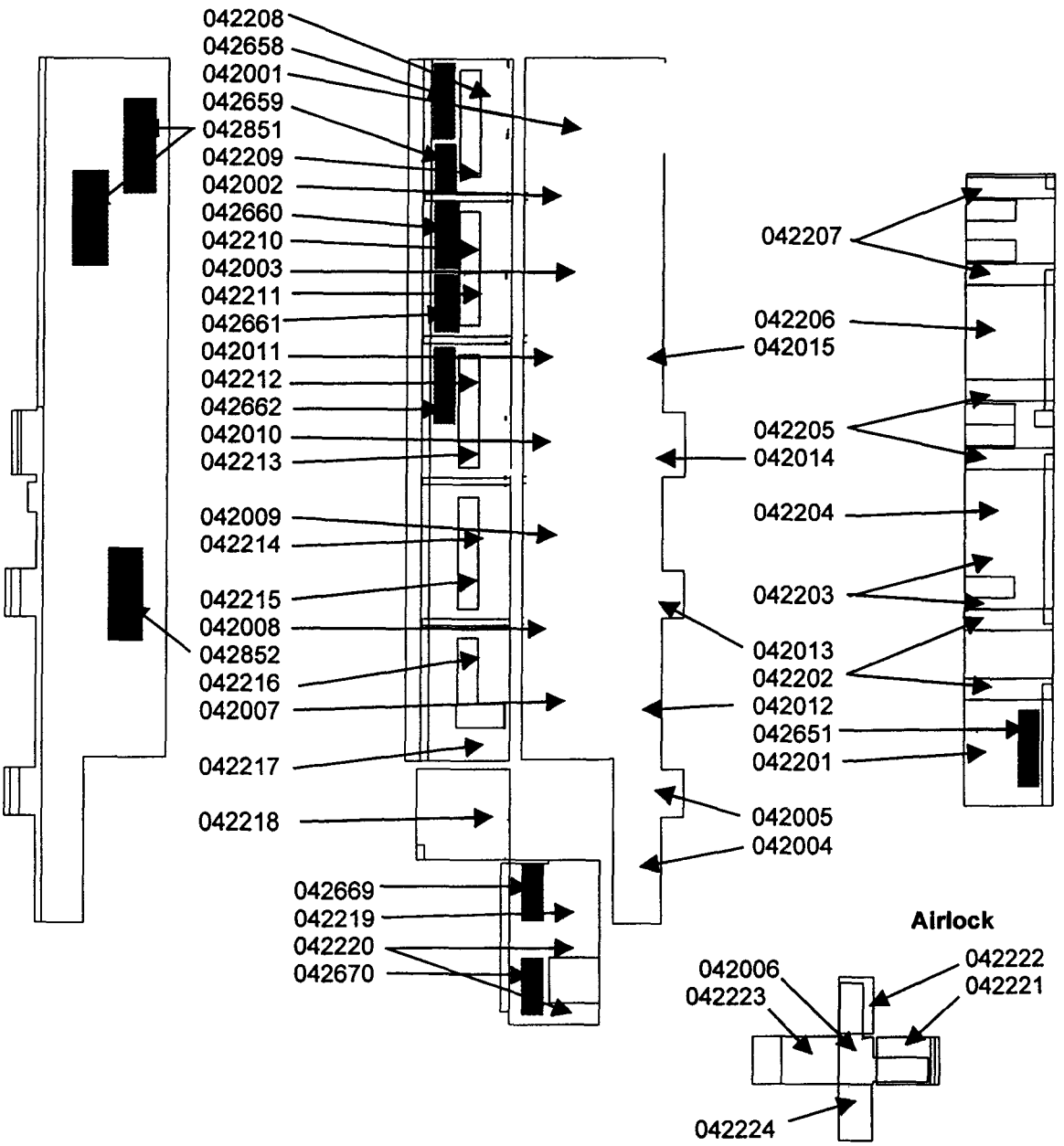
266

Survey Unit: 77941
B779 First Floor Main Bldg
Floor in Room 142



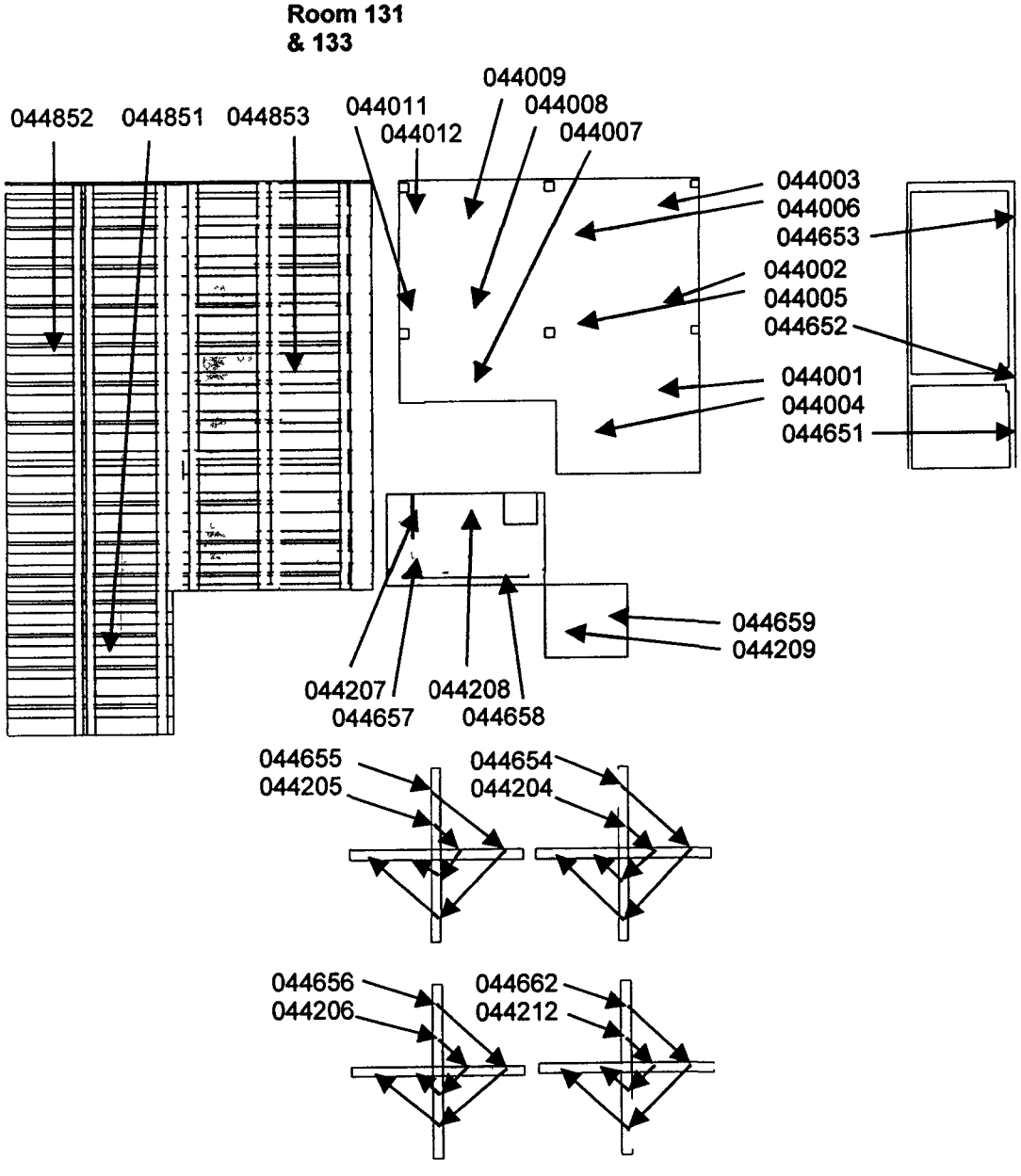
247

Survey Unit. 77942
B779 First Floor Main Bldg
Rooms 119, 124, 125, 128, 032, 034, 035, 136 & 138
Map 1 of 1



268

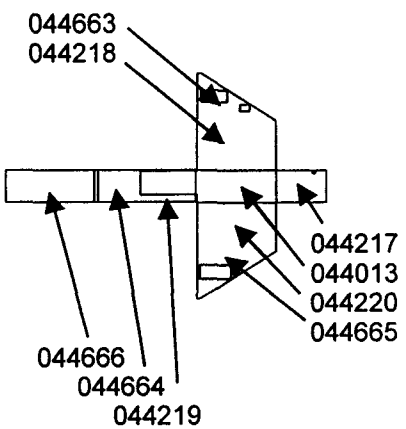
Survey Unit: 77944
B779 First Floor Main Bldg
Rooms 131 & 133
Map 1 of 2



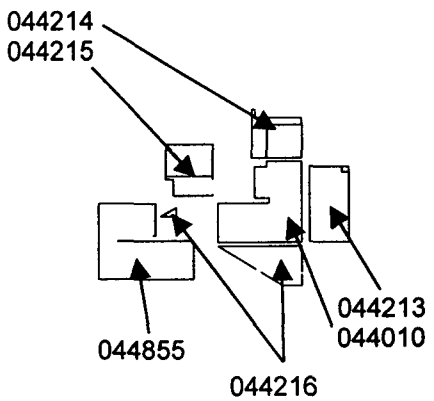
269

Survey Unit: 77944
B779 First Floor Main Bldg
Rooms 130 & Room Under Stairwell
Map 2 of 2

Room 130



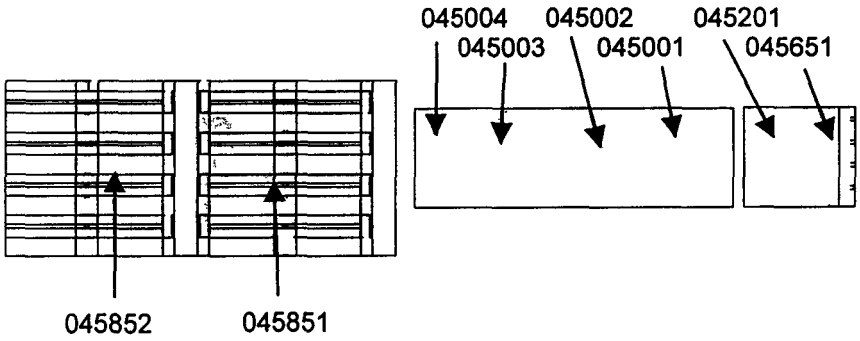
Room Under Stairwell



210

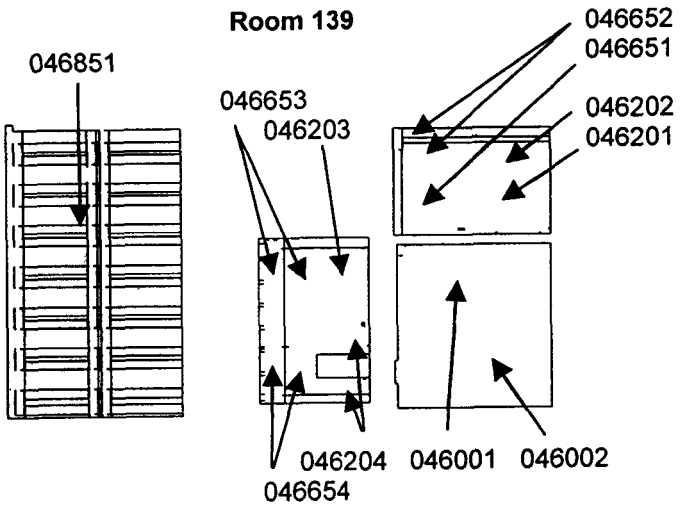
Survey Unit: 77945
B779 First Floor Main Bldg Room 137
Map 1 of 1

Room 137



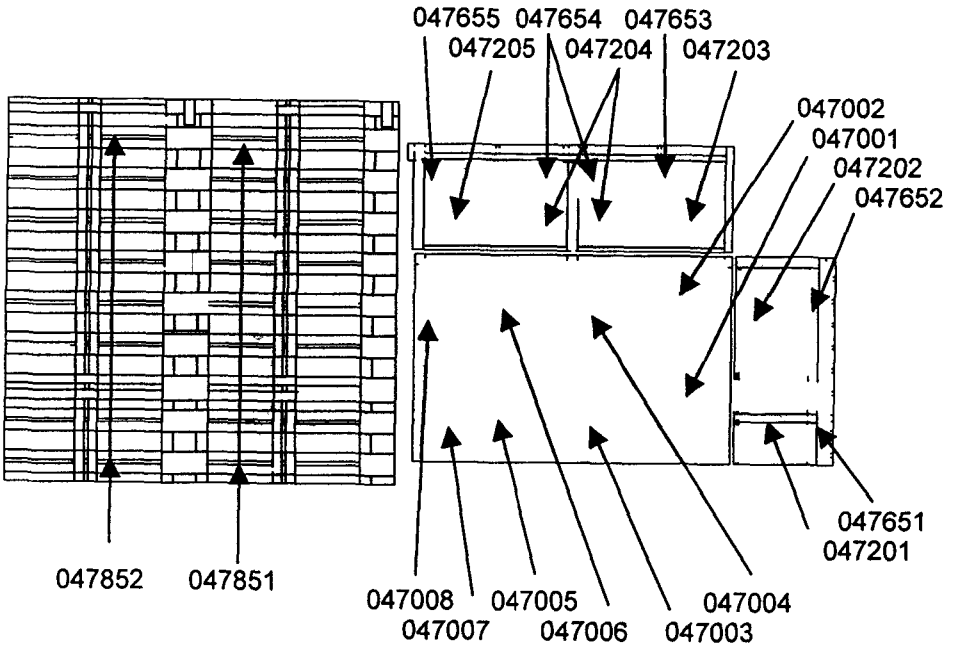
271

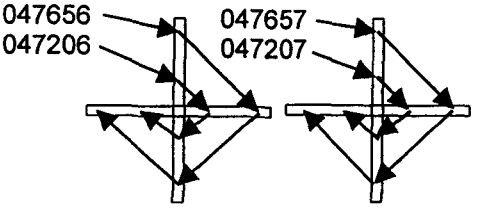
Survey Unit: 77946
B779 First Floor Main Bldg
Room 139
Map 1 of 1



272

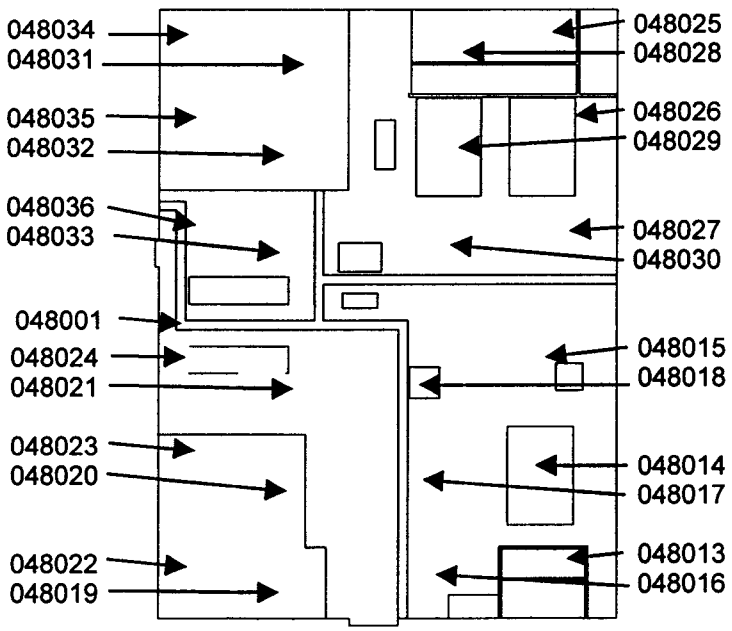
Survey Unit: 77947
B779 First Floor Main Bldg 140,140A, 140B, 141, 141A, 141B & 141C
Map 1 of 1



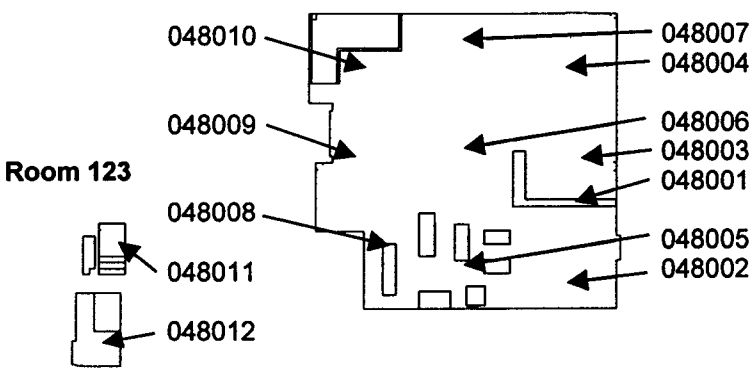


Survey Unit: 77948
B779 First Floor Main Bldg
Floors Rooms 122, 123, 126 & 127
Map 1 of 1

Rooms 122 & 127

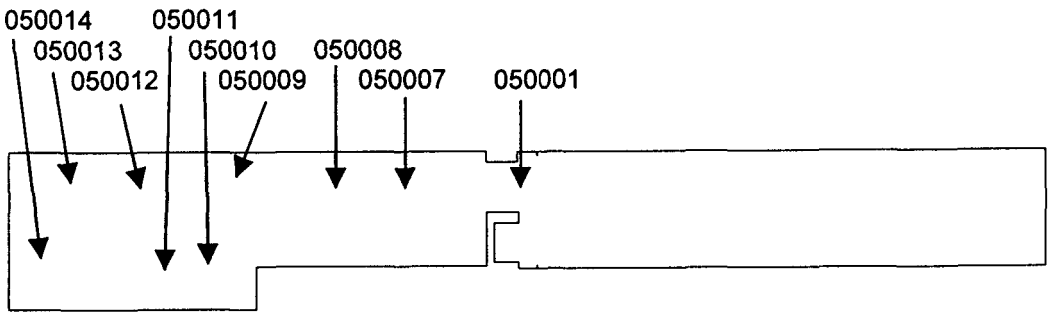


Room 126



274

Survey Unit. 77950
B779 Dock and Ramp (South Floor Only)
Map 1 of 1



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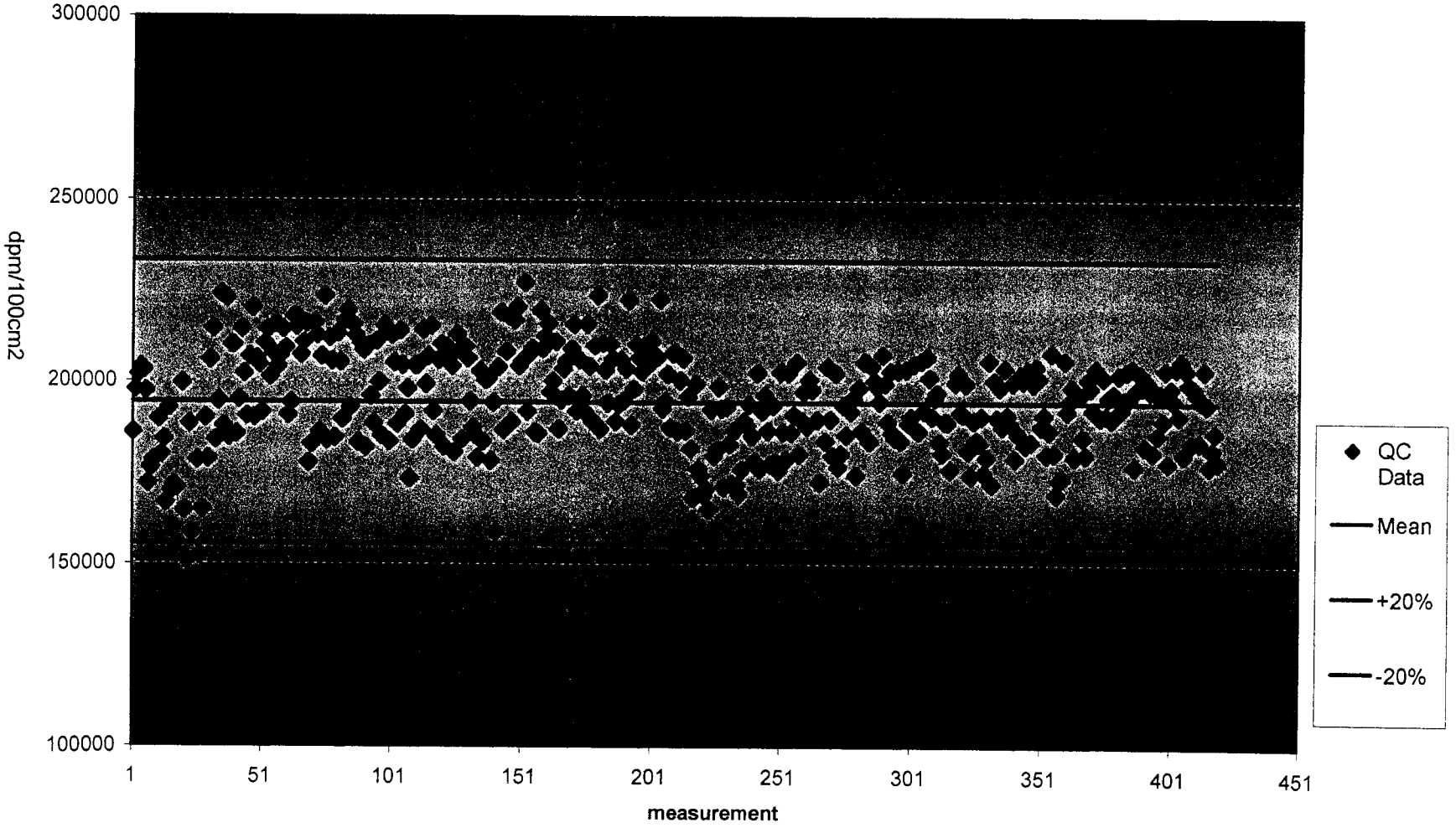
ATTACHMENT X

SCM/SIMS Quality Control Charts

B779 Main Bldg., Alpha Final Status Survey Quality Control Chart
SCM1 180corner mode, 7.28.99 - 12.22.99
Survey Units 77905, 77906, 77930, 77933, 77934, 77935, 77939, 77940, 77941, 77942, 77944, 77945, 77946, 77947, 77948, 77950



Best Available Copy

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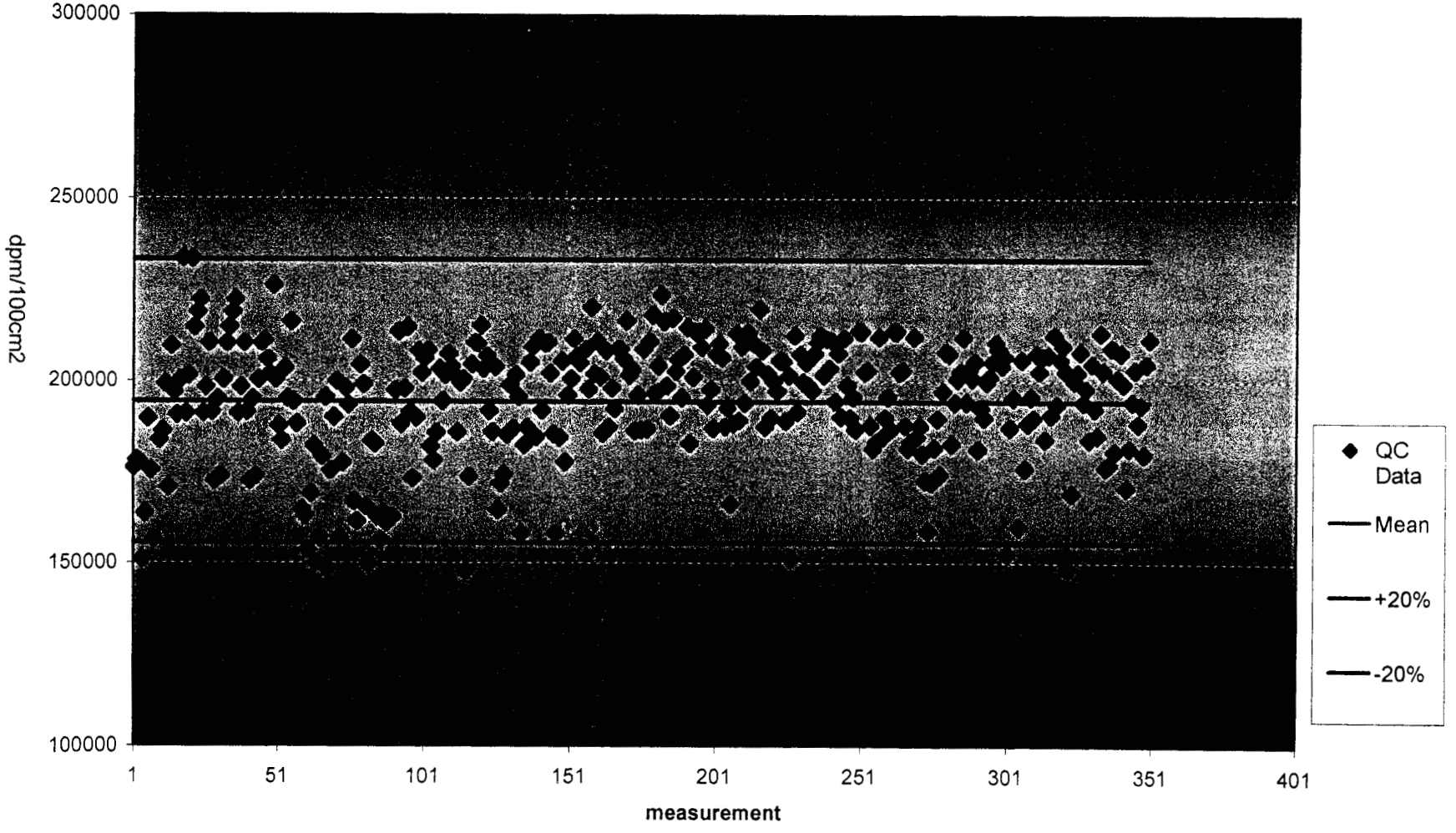
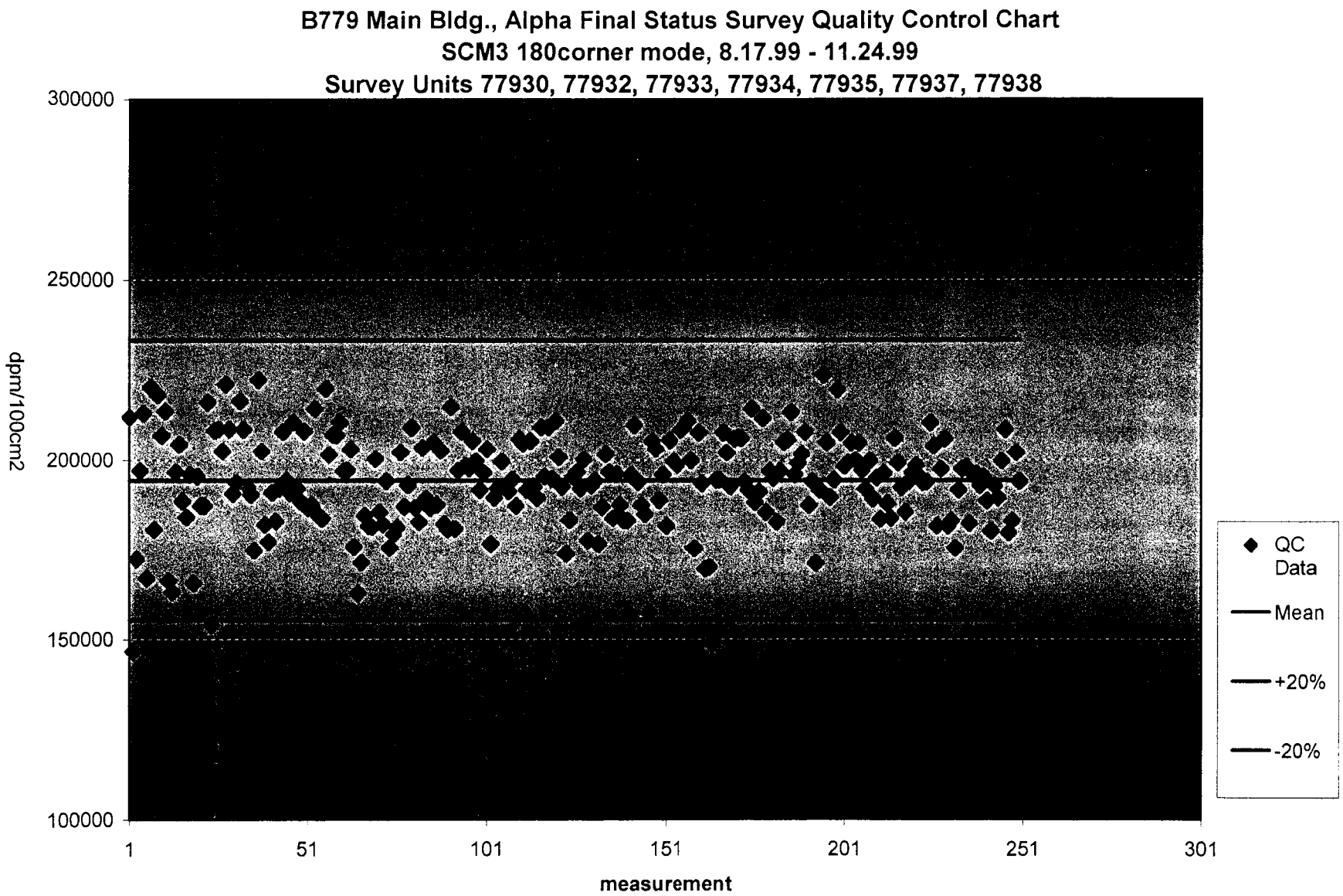
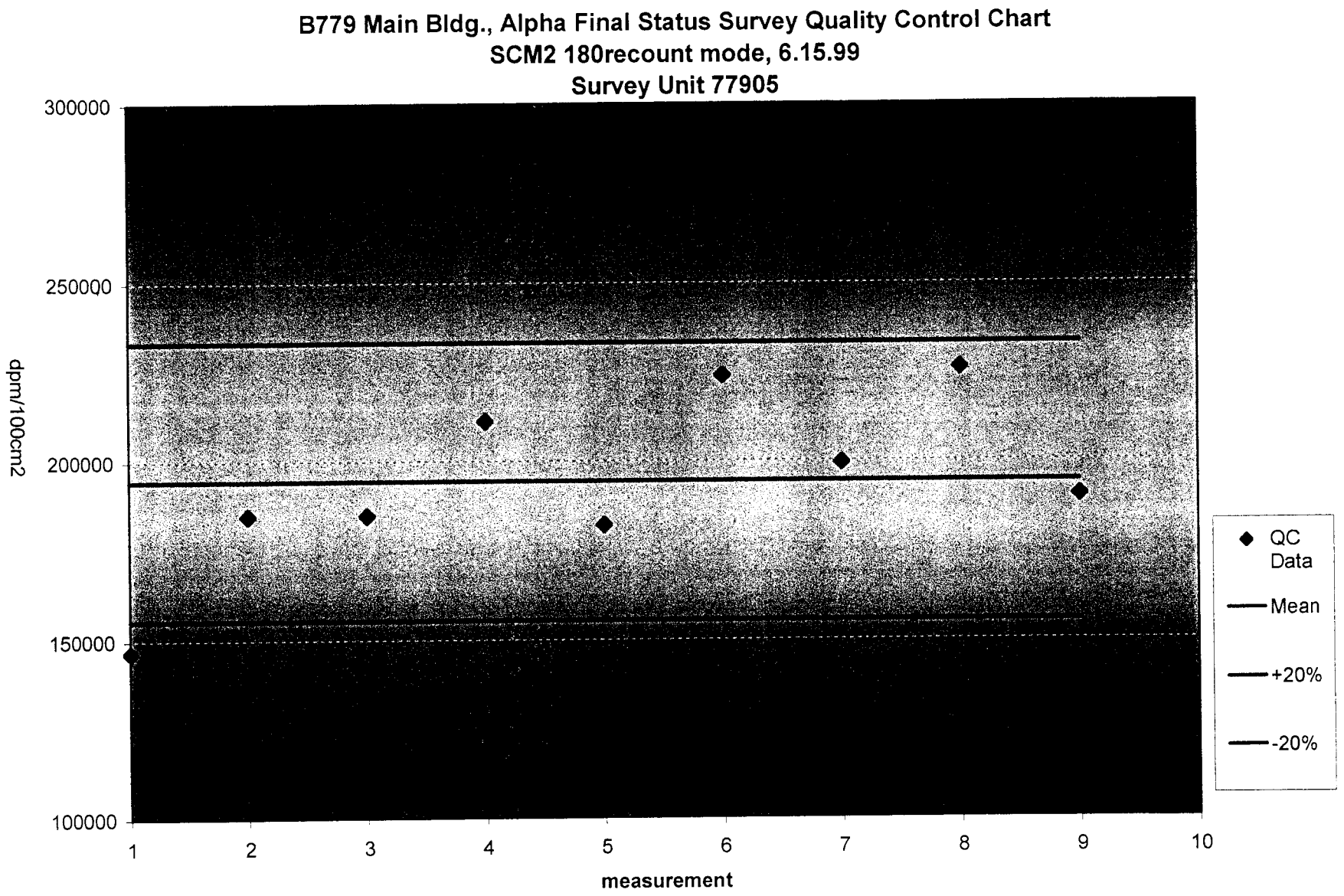
B779 Main Bldg., Alpha Final Status Survey Quality Control Chart
SCM2 180corner mode, 6.15.99 - 12.20.99
Survey Units 77905, 77906, 77931, 77933, 77936, 77937, 77938, 77939, 77940, 77941, 77942, 77944, 77947, 77948



278


B779 Main Bldg., Alpha Final Status Survey Quality Control Chart
SCM3 180corner mode, 8.17.99 - 11.24.99
Survey Units 77930, 77932, 77933, 77934, 77935, 77937, 77938
300000
250000
200000
150000
100000
dpm/100cm2
1
51
101
151
201
251
301
measurement
QC Data
Mean
+20%
-20%

279


B779 Main Bldg., Alpha Final Status Survey Quality Control Chart
SCM2 180recount mode, 6.15.99
Survey Unit 77905
300000
250000
200000
150000
100000
dpm/100cm2
1
2
3
4
5
6
7
8
9
10
measurement
QC Data
Mean
+20%
-20%

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ATTACHMENT Y

Data Quality Assessment

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ATTACHMENT Y

DATA QUALITY ASSESSMENT for the MAIN BUILDING, 779 CLUSTER

1 0 INTRODUCTION

Data used in making management decisions for waste management remedial actions must be of adequate quality to support the decisions Adequate data quality for decision-making is required by applicable RMRS and K-H corporate policies (RMRS, 1998, §6 4 and K-H, 1997, §7 1 4 and 7 2 2), as well as by the customer (DOE, RFFO, Order O 414 1, Quality Assurance, §4 b (2)(b)) Regulators and the public also expect decisions and data that are technically and legally defensible Verification and validation of the data ensure that data used in decisions resulting from the FSS are usable and defensible

Verification and validation (V&V) of this Closeout Radiological Survey Report (CRSR) are the primary components of the DQA V&V constitutes the cornerstone of the DQA because statistical tests and background determinations relative to decision-making for radiological survey units were not implemented nor required per the approved CRSP for the 779 Cluster Instead, measurement results were compared, on a one-to-one basis, with free-release criteria given in DOE Order 5400 5 The FSS results could be used to conduct Sign Tests for decisions, but because all individual measurements were less than the $DCGL_W$, the survey units meet release criteria without further data reduction Use of Order 5400 is more conservative than MARRSIM or EPA QA/G-9 techniques, as it allows averaging of measurement results to only 1 m^2 or less

The DQA presented in this Attachment supports conclusions in the report through implementation of the guidelines adopted from the following MARSSIM sections

- §4 9, Quality Control
- §8 2, Data Quality Assessment
- §9 0, Quality Assurance & Quality Control
- Appendix E, Assessment Phase of the Data Life Cycle
- Appendix N, Data Validation using Data Descriptors

The MARSSIM-recommended criteria for V&V of final status survey data, listed above, are concisely summarized in Table Y-1 (page 12 of 12) The MARRSIM criteria are listed across the top of the table whereas the project's proof of implementation is listed along the left-hand side of the page An "X" in the box indicates the MARSSIM criterion (column header) was implemented through the quality-record or components of the CRSR listed in the left-most column

2 0 VERIFICATION OF RESULTS

Verification ensures that data produced and used by the project are documented and traceable per quality requirements Verification consisted of reviewing the project's data relative to three subsets 1) radiological scans with the SCM/SIMS, 2) static surveys for removable and total

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contamination, and 3) radiochemical data resulting from samples taken and subsequently analyzed via alpha spectrometry Consistent with previous reports, verification confirmed that

- Chain-of-Custody was intact from initial sampling though transport and final analysis,
- preservation and hold-times were within tolerance
- format and content of the data are clearly presented relative to goals of the project, i e , to determine, with at least 95% confidence, that the survey units of interest (Main Building) are adequate for radiological free release

Verification of the Main Building FSS data will also address quality records representing implementation of the following quality controls

- calibrations (radiochemistry & surveys), for accuracy
- laboratory control samples (LCS -- radiochemistry), for accuracy
- blanks (radiochemistry), for accuracy
- duplicate measurements (radiochemistry & surveys), for precision
- chemical yield (radiochemistry), for accuracy
- count times (radiochemistry & surveys), for sensitivity
- sample preparations (radiochemistry), for accuracy, representativeness

SCM data were systematically managed and verified as follows

- A Survey Summary Sheet was generated for each survey unit, which lists all Final Survey Reports, including the associated investigation surveys
- The Survey Summary Sheet was compared to the electronic (computer) directory structure, the Project File (handwritten survey data) and SIMS-generated survey data for a "3-way" verification
- The Survey Summary Sheet, ordered by survey unit, is maintained at the front of the electronic database file structure as well as in the file cabinet

Areas requiring 100% survey coverage were verified as follows

- An overview map was developed for each survey unit
- The overview map served as an index of the subunits, and defined the subunit boundaries
- Every survey map used to document Electra as well as SCM scan surveys was reviewed against the overview map for coverage
- Because every survey map was correlated to a survey form, and all survey forms were inventoried via the survey summary sheet, 100% coverage of every subunit was assured

Areas requiring 10% survey coverage were verified as follows

- The area covered by the survey was summed for each subunit that required 10% coverage
- The subunit size was electronically calculated in Turbocad using scaled maps
- The sum of all subunits in the survey unit that require 10% coverage was summed
- The area surveyed was divided by the sum of the 10% subunit size to determine the percent surveyed

Areas requiring 10% to 50% survey coverage were verified as follows

- The area covered by the survey was summed for each subunit
- The subunit size was electronically calculated in Turbocad using scaled maps
- The sum of all subunits in the survey unit was summed
- The area surveyed was divided by the sum of the subunit size to determine the percent surveyed

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Upon completion of the data management activities listed above, an independent peer review was performed on each surveys package

All relevant Quality records associated with the Main Building D&D final status survey decisions will be submitted to the RMRS Records Center for permanent storage within 30 days of the conclusion of the 779 project

3 0 VALIDATION OF RESULTS

Validation consists of a technical review of all data that directly support the FSS decisions, so that any limitations of the data relative to project goals are delineated, and the associated data are qualified (caveated) accordingly Data were validated relative to

1) the DQOs of the project as defined in the CRSP for the 779 Cluster (i e , did the final data achieve the initial DQOs of the project?), and

2) quality criteria discussed throughout various sections in the MARSSIM (sections noted previously)

MARSSIM criteria for the broad topic of "data quality assessment" used in final status surveys generally falls within the generic categories of quality assurance, quality control, data validation, and data assessment (including verification and validation) Table Y-1 provides a "crosswalk" that lists the primary MARSSIM sections and generic data quality criteria (at top) and their corresponding implementation via the CRSP, CRSR, and project files

All of the significant MARSSIM criteria listed in Table Y-1 are summarily discussed within the "PARCC Parameters" section PARCC parameters are congruent with "data descriptors" in the MARSSIM parlance and address characteristics of the data that must be defined for scientific integrity and defensibility Recall that at least one "X" in each column of the table constitutes achievement of the MARSSIM quality objective (vs one "X" in each row) The next section, which addresses the PARCC parameters -- Precision, Accuracy, Representativeness, Comparability, and Completeness, will also include discussion on bias and sensitivity, two more data descriptors emphasized in MARSSIM

Validation of data to K-H contractual requirements (K-H Statements of Work is currently performed on a site-wide basis at ~25% frequency by the K-H Analytical Services Division Satisfactory validation at this frequency indicates that subcontracted labs are operating competently relative to industry-wide standards, and more specifically, that sample custody and analytical procedures are implemented under defined quality controls on a sitewide programmatic basis Sitewide data validation coupled with annual lab audits provides the inference that all analytical and radiochemical results not *specifically* validated, are represented by the percentage that is validated Radiochemistry performed for this FSS were verified as meeting K-H contractual requirements -- Module RC01-B 3 for alpha spectrometry (4/24/98 and Module 9, 7/6/98)

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PARCC PARAMETERS

PRECISION

Fundamental reproducibility of measurements, at levels near MDA and between different types/brands of instruments, are discussed at length in the "B779 Final Status Survey Meeting Resolution of CDPHE/EPA/IVC Comments, 6/30/99", which is included as Appendix 5 to the *Closeout Radiological Survey Report for Building 729*

1) Radiological Surveys

Precision of the radiological instrumentation was satisfactory based on tolerance charting of daily source measurements for each individual sensor used on the project, which includes all measurement types (scans and static measures for total contamination, swipes for removable) Adequate precision was established through instrument performance within a ±20% range as defined by measurement results compared to a standard source value Based on standard protocol (*Radiological Safety Practices*) any measurement exceeding the defined tolerance limits required corrective action (repair or replacement) prior to the instrument's use in final survey

For the SCM, three (3) measurements were taken for each QC check "episode", i e , before and after each set of measurements per work shift (Millennium QAP, 3/99) Of the 3 measurements, 2 consecutive measurements had to pass specifications This criterion has a probabilistic basis to accommodate occurrence of false positives and negatives inherent with all SIMS measurements, including the QC checks Specifically, 2 consecutive measurements within tolerance significantly increase confidence (over just 1 measurement) that instrument output is truly within tolerance (and not within tolerance due to random chance) Performance checks performed on the SCM are displayed through control charting (Attachment X)

Duplicate TSA measurements were also periodically acquired (≥5% frequency of real surveys) on the MARSSIM survey grids All duplicate measurements were within tolerance based on the acceptance criterion that both results be below $DCGL_W$ (note that, even if populations were "significantly" different between real and duplicate results, if both duplicate and real population statistics are less than action levels, the difference between duplicate and real values is, ultimately, insignificant relative to free-release decisions)

2) Radiochemistry

Results from laboratory duplicates indicate adequate reproducibility based on duplicate results within statistical tolerance values (>90% confidence of equivalency between the original sample and the duplicate) Although blind duplicate samples were not acquired for determination of overall project precision, agreement between the multiple samples to within a range less than the $DCGL_W$ indicate that reproducibility is adequate for project decisions (i e , relative to free-release of materials)

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ACCURACY (and Bias)
1) Radiological Surveys

Accuracy of radiological surveys is satisfactory based on RFETS-programmatic annual calibrations that establish instrument efficiencies and sensitivities for all instrumentation used on this project Daily source checks also provided periodic checks to ensure that all sensors are within tolerance during daily operations Calibration and calibration check results were within the RFETS and industry-standard requirement of 20% of the applicable reference standard values Full-scale multi-point calibrations provided accuracies of ± 10% prior to implementation of survey instruments in the field, consistent with guidelines put forth in ANSI-N323 All protocols that control instrumentation accuracy are included in the reference section, and may be referenced through the site document control system (site documents) or in the 779 Project File (Millennium QAP)

Distance measurements recorded by the SCM/SIMS are within 3% of actual distances for mapping and location purposes, as documented in the "Incremental Encoder Calibration Verification Data Sheet "

Key work-controlling procedures that contributed to accuracy (and representativeness) of the radiological surveys consisted of the following

- Kaiser-Hill, LLC , 1999 *Radiological Safety Practices* RFETS, Golden, CO
- Millennium Services, Inc 1999 *Quality Assurance Plan for Radiological Surveys at RFETS, 779 Cluster*
- Ibid , 1999 SCM Procedure 010, *Conduct of Operations for Surveys using the SCM/SIMS at RFETS*
- Ibid , 1999 SCM Procedure 005, *Requirements for the Completion of Surveys using the SCM*
- Ibid , 1999 SCM Procedure 006, *Performing a Position Calibration*
- Ibid , 1999 SCM Procedure 007, *Response Check of any Detector Configuration Installed on the SCM*
- Ibid SCM Procedure 001, *Calibration and Field Confirmatory Tests of the Incremental Encoder included on the SCM*

SCM measurements for the project were consistently within accuracy tolerances based on periodic measurments of reference standards, which are shown in the daily performance check data compiled collectively on control charts (Attachment X) Points falling outside the band of control did not necessarily disqualify the SCM from use, the standard operating procedure mandates at least two of three standards measurements to be within tolerance for each shift of SCM use as discussed in the "Precision" subsection Only SCM data bracketed by successful QC performance checks were used for making free-release decisions

Biases were noted in control charts constructed for both the SAC-4 (removable alpha measurements) and Electra DP-6 (total surface {alpha) activity) instruments High biases are not a concern as they are conservative (i e , the error would not cause a free-release of material that was, in fact, contaminated) Low bias is not, individually, cause for rejection of

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data, as each performance check was within the predefined tolerance limit of ±20% However, effects of the bias must be evaluated relative to impacts on decisions that are based on the data SAC-4 and the DP-6 instrumentation exhibiting low bias consistently measured the standards within narrow bands below the standard value (i e , *precision* of the instruments was good) Average values of the bias, i e , arithmetic means taken from each control chart, were less than 11% of the standard (reference) value, which is well below the absolute tolerance limit of ±20% Because all TSA and removable alpha surveys yielded average results less than 50% of the free-release levels, a potential (worst-case) low bias of 10% would not impact any free-release decisions of the project Stated differently, if the worst case bias value (11%) were added to current survey results, all survey units of the Main Building would continue to easily pass free-release thresholds

2) Radiochemistry

Accuracies of radiochemical results were within tolerance and acceptable based on the associated results of LCS and calibrations at the lab Preparation blanks also confirmed that no significant cross-contamination occurred in the analysis process Uncertainties of the radiochemical results are quantified for each sample by both 2-sigma error (probabilistic) and Total error (systematic + probabilistic) Uncertainties associated with the alpha-spec analyses were within standard industry magnitudes and did not impact project decisions

REPRESENTATIVENESS

Samples and surveys are representative based on the following criteria

- familiarity with facilities -- multiple walk-downs and collaborations by management and technical staff,
- implementation of industry-standard Chain-of-Custody protocols,
- compliance with sample preservation and hold times,
- documented and (site) approved methods
  - radiochemistry - alpha spectrometry via K-H Module RC01-B 3 (4/24/98)
  - radiological surveys - K-H RSP 7 02
- compliance with the CRSP (RMRS, March 1999) -- reviewed & approved by technical and management consensus prior to implementation

COMPLETENESS

Data packages for the Main Building Survey Units are complete with respect to the required content and appropriate reviews/approvals (management, technical, and QA) Details of planned vs actual survey/sample data are listed, by Survey Unit, in Table Y-2

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TABLE Y-2 DATA COMPLETENESS for the MAIN BUILDING, 779 CLUSTER

Rad Measurement Type	Required # of Samples/ Surveys (1)	Actual # of Samples/ Surveys	Comments
Survey Unit 77905			
Shonka SCM/SIMS (total)	≥10% areal coverage[3]	25%	DQO achieved
NE Electra (total)[2]	21	29	DQO achieved
Eberline SAC-4 (removable)[2]	21	29	DQO achieved
Radiochemical	21	21	DQO achieved
Survey Unit 77906			
Shonka SCM/SIMS (total)	≥10% areal coverage[3]	15%	DQO achieved
NE Electra (total)[2]	15	26	DQO achieved
Eberline SAC-4 (removable)[2]	15	26	DQO achieved
Radiochemical	15	19	DQO achieved
Survey Unit 77930			
Shonka SCM/SIMS (total)	100% areal coverage[3]	100%	DQO achieved
NE Electra (total)[2]	11	11	DQO achieved
Eberline SAC-4 (removable)[2]	11	11	DQO achieved
Radiochemical	11	14	DQO achieved
Survey Unit 77931			
Shonka SCM/SIMS (total)	100% areal coverage[3]	100%	DQO achieved
NE Electra (total)[2]	15	15	DQO achieved
Eberline SAC-4 (removable)[2]	15	15	DQO achieved
Radiochemical	NA	NA	NA
Survey Unit 77932			
Shonka SCM/SIMS (total)	100% areal coverage[3]	100%	DQO achieved
NE Electra (total)[2]	15	24	DQO achieved
Eberline SAC-4 (removable)[2]	15	24	DQO achieved
Radiochemical	NA	NA	NA
Survey Unit 77933			
Shonka SCM/SIMS (total)	>10% areal coverage[3]	53%	DQO achieved
NE Electra (total)[2]	15	39	DQO achieved
Eberline SAC-4 (removable)[2]	15	39	DQO achieved
Radiochemical	15	20	DQO achieved

(1) see "Summary Statistics Calculation Verification Worksheets " - Attachment F
(2) see data summaries for additional "Post-media" surveys, i e , following paint scrapes
(3) where requirements are consistent with MARSSIM guidelines, relative to Survey Unit classification

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TABLE Y-2 DATA COMPLETENESS for the MAIN BUILDING, 779 CLUSTER

Rad Measurement Type	Required # of Samples/ Surveys (1)	Actual # of Samples/ Surveys	Comments
Survey Unit 77934			
Shonka SCM/SIMS (total)	100% areal coverage[3]	100%	DQO achieved
NE Electra (total)[2]	27	27	DQO achieved
Eberline SAC-4 (removable)[2]	27	27	DQO achieved
Radiochemical	NA	NA	NA
Survey Unit 77935			
Shonka SCM/SIMS (total)	100% areal coverage[3]	100%	DQO achieved
NE Electra (total)[2]	31	31	DQO achieved
Eberline SAC-4 (removable)[2]	31	31	DQO achieved
Radiochemical	NA	NA	NA
Survey Unit 77936			
Shonka SCM/SIMS (total)	100% areal coverage[3]	100%	DQO achieved
NE Electra (total)[2]	15	15	DQO achieved
Eberline SAC-4 (removable)[2]	15	15	DQO achieved
Radiochemical	15	15	DQO achieved
Survey Unit 77937			
Shonka SCM/SIMS (total)	100% areal coverage[3]	100%	DQO achieved
NE Electra (total)[2]	36	36	DQO achieved
Eberline SAC-4 (removable)[2]	36	36	DQO achieved
Radiochemical	NA	NA	NA
Survey Unit 77938			
Shonka SCM/SIMS (total)	100% areal coverage[3]	100%	DQO achieved
NE Electra (total)[2]	15	18	DQO achieved
Eberline SAC-4 (removable)[2]	15	18	DQO achieved
Radiochemical	NA	NA	NA
Survey Unit 77939			
Shonka SCM/SIMS (total)	>10% areal coverage[3]	53%	DQO achieved
NE Electra (total)[2]	15	22	DQO achieved
Eberline SAC-4 (removable)[2]	15	22	DQO achieved
Radiochemical	15	15	DQO achieved

(1) see "Summary Statistics Calculation Verification Worksheets " - Attachment F
(2) see data summaries for additional "Post-media" surveys, i e , following paint scrapes
(3) where requirements are consistent with MARSSIM guidelines, relative to Survey Unit classification

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TABLE Y-2 DATA COMPLETENESS for the MAIN BUILDING, 779 CLUSTER

Rad Measurement Type	Required # of Samples/ Surveys (1)	Actual # of Samples/ Surveys	Comments
Survey Unit 77940			
Shonka SCM/SIMS (total)	≥10% areal coverage[3]	46%	DQO achieved
NE Electra (total)[2]	15	32	DQO achieved
Eberline SAC-4 (removable)[2]	15	32	DQO achieved
Radiochemical	15	24	DQO achieved
Survey Unit 77941			
Shonka SCM/SIMS (total)	100% areal coverage[3]	100%	DQO achieved
NE Electra (total)[2]	53	61	DQO achieved
Eberline SAC-4 (removable)[2]	53	61	DQO achieved
Radiochemical	NA	NA	NA
Survey Unit 77942			
Shonka SCM/SIMS (total)	>10% areal coverage[3]	56%	DQO achieved
NE Electra (total)[2]	15	40	DQO achieved
Eberline SAC-4 (removable)[2]	15	40	DQO achieved
Radiochemical	15	24	DQO achieved
Survey Unit 77944			
Shonka SCM/SIMS (total)	>10% areal coverage[3]	100%	DQO achieved
NE Electra (total)[2]	22	27	DQO achieved
Eberline SAC-4 (removable)[2]	22	27	DQO achieved
Radiochemical	13	14	DQO achieved
Survey Unit 77945			
Shonka SCM/SIMS (total)	100% areal coverage[3]	100%	DQO achieved
NE Electra (total)[2]	15	21	DQO achieved
Eberline SAC-4 (removable)[2]	15	21	DQO achieved
Radiochemical	NA	NA	NA
Survey Unit 77946			
Shonka SCM/SIMS (total)	100% areal coverage[3]	100%	DQO achieved
NE Electra (total)[2]	15	23	DQO achieved
Eberline SAC-4 (removable)[2]	15	23	DQO achieved
Radiochemical	NA	NA	NA

(1) see "Summary Statistics Calculation Verification Worksheets " - Attachment F
(2) see data summaries for additional "Post-media" surveys, i e , following paint scrapes
(3) where requirements are consistent with MARSSIM guidelines, relative to Survey Unit classification

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TABLE Y-2 DATA COMPLETENESS for the MAIN BUILDING, 779 CLUSTER

Rad Measurement Type	Required # of Samples/ Surveys (1)	Actual # of Samples/ Surveys	Comments
Survey Unit 77947			
Shonka SCM/SIMS (total)	100% areal coverage[3]	100%	DQO achieved
NE Electra (total)[2]	16	29	DQO achieved
Eberline SAC-4 (removable)[2]	16	29	DQO achieved
Radiochemical	16	17	DQO achieved
Survey Unit 77948			
Shonka SCM/SIMS (total)	100% areal coverage[3]	100%	DQO achieved
NE Electra (total)[2]	83	83	DQO achieved
Eberline SAC-4 (removable)[2]	83	83	DQO achieved
Radiochemical	NA	NA	DQO achieved
Survey Unit 77950			
Shonka SCM/SIMS (total)	100% areal coverage[3]	100%	DQO achieved
NE Electra (total)[2]	16	22	DQO achieved
Eberline SAC-4 (removable)[2]	16	22	DQO achieved
Radiochemical	NA	NA	NA

(1) see "Summary Statistics Calculation Verification Worksheets " - Attachment F
(2) see data summaries for additional "Post-media" surveys, i e , following paint scrapes
(3) where requirements are consistent with MARSSIM guidelines, relative to Survey Unit classification

Consistent with EPA's G-4 DQO process, the sampling design was optimized through back-calculating actual measurement results (acquired during final status survey) and comparing model output with original estimates Use of actual sample/survey (result) variances in MARSSIM's DQO model provided confirmation that an adequate number of samples/surveys had been acquired Inputs required for decision-making, as stated in the original (planning) DQOs included coverage of originally-planned 3-dimensional boundaries of the structure All radiological results are valid without qualification, and form data sets with adequate quantities and quality of data for free-release decisions on all 21 survey units of interest

COMPARABILITY

All results presented are comparable with radiological survey and radiochemistry data on a site- and DOE-complex wide basis This comparability is based on

- use of standardized engineering units in the reporting of meaurement results
- consistent sensitivities of measurements at $\leq$ 50% $DCGL_W$ ($\leq$ 50% $DCGL_{EMC}$ for scans)
- use of site-approved procedures (RSPs)
- systematic quality controls
- thorough documentation of the planning, sampling/analysis process, and data reduction into formats designed for making decisions posed from the project's original data quality objectives

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SENSITIVITY

Adequate sensitivities, in units of dpm/100^2 cm, were attained for all surveys and radiochemical methods implemented based on MDAs at 50% of the transuranic $DCGL_W$ ($\leq$ 50% $DCGL_{EMC}$ for scans) The nominal MDAs for each survey and radiochemical method are summarized as follows

- SCM/SIMS - scan surveys/total contamination <225 dpm/100cm^2 w/ >90% confidence (relative to false negative) and <275 dpm/100cm^2 w/ >95% confidence (relative to false negatives)
- Surveys (Eberline SAC-4) - removable contamination 10 dpm/100cm^2
- Surveys (NE Electra) - total contamination 50 dpm/100cm^2
- Radiochemistry (alpha spec) - total contamination <10 dpm/100cm^2

4 0 QA ELEMENTS of DOE Order 414 1 and 10CFR830 120

Adequate implementation of the ten quality elements required by DOE Quality Assurance Order (414 1) was corroborated through the verification and validation process described above The ten DOE quality elements, or criteria, are inherent within the MARSSIM guidance, as DOE was a co-authoring organization to the MARSSIM Quality elements deserving emphasis include qualifications of project personnel and additional controls in the areas of engineering design and computer software

All personnel performing quality-affecting activities within the FSS project were qualified to perform their specific tasks Suitable training and qualification documentation for personnel performing the work, from the laborers to technical professionals to management, is documented in several ways T&Q status for personnel is included in the *Building 779 Cluster Closure Project Health & Safety Plan* (Rev 6, 18 August 1998) and personnel dossiers controlled by company-specific Human Resource departments

Software quality control for the SCM/SIMS is chronologically documented and archived within the QA/QC folder (for Millennium Services) of the Project File Software used to reduce data from radiochemical sampling and hand-held instrumentation was modified to record verifications and any alterations to calculations following V&V of the calculations Details of the verification process were also improved through use of a checklist, which was completed for each Survey Unit Data Summary

Quality Assurance (independent) oversight was performed throughout the project and focused on planning and procedural compliance, as well as data reduction and archival Oversight results for the 779 Project are documented via the Plant Action Tracking, V&V Checklists (referenced above), and RMRS Surveillance Reports conducted in accordance with RMRS-QA-10 02 Reports are available through the RMRS Records Center, no conditions adverse to data quality are currently outstanding

In summary, the data presented in this report have been verified and are qualified as valid and complete for comparison with free-release criteria (action levels) as stated in the original DQOs All media sampled and surveyed, relative to both total and removable alpha activities, yielded results less than action levels for the associated contaminants of concern Therefore, the Survey Units in question meet the free-release criteria with the confidences stated in this section and throughout the report

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Bldg 779 Final Status Survey Report -- Main Building -- Survey Units 77905, -06 -30 thru -42, -44 thru -48, & -50 (Total of 21 Survey Units)	MARSSIM sec 4.9	QAPP	SOPs	Training & Quals (personnel)	calibrations	QC Samples	sample quantities (adequacy of)	precision	MARSSIM sec 8.2	Reviews	DQOs & Sampling Design	preliminary data review	graphical data review	statistical tests & assumptions[1]	conclusions	MARSSIM sec 9.0	Reports (to decision makers)	site description	analytical methods & MDA/MDC	background radiation	measurement results	Chain-of-Custody	SOPs	Quality records	results by geographic location	defined level of data review	data quality indicators (PARCCS)	QC measurements	MARSSIM Appdx. E (DQA)	review DQOs & survey design	select statistical test	verify assumptions	draw conclusions	MARSSIM Appdx. N	raw data, original data forms	QA assessments/NCRs/CARs	data reduction/calculations	method validation	historical data
Inventory of Project Files/Report Contents		X	X	X	X	X	X	X		X	X	X			X		X	X	X	X	X	X	X	X	X	X	X	X		X				X		X	X	X	X	X
Closeout Radiological Survey Report																	X	X						X		X							X							
											X								X																					
																											X	X												
																					X				X															
Project Files		X	X	X	X														X					X													X	X	X
SCM/SIMS DATA (by Survey Unit)							X				X	X									X			X	X									X						
							X				X	X									X			X	X									X						
SURVEY PACKAGES (by Survey Unit)			X			X	X			X						X							X	X													X		
						X														X				X									X						
						X														X				X				X					X							
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							X	X				X									X			X	X									X						
QA/QC					X			X																X				X						X						
					X			X																X				X						X						
DOCUMENT REVIEWS/COMMENT RESOLUTION																																								

[1] grey boxes/areas are not applicable based on consensus approval of the RCSP which notes exceptions to MARSSIM statistical applications in decision-making

Table Y-1 Bldg 779 Main Building FSS Compliance with MARSSIM Data Quality Guidelines

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ATTACHMENT Z

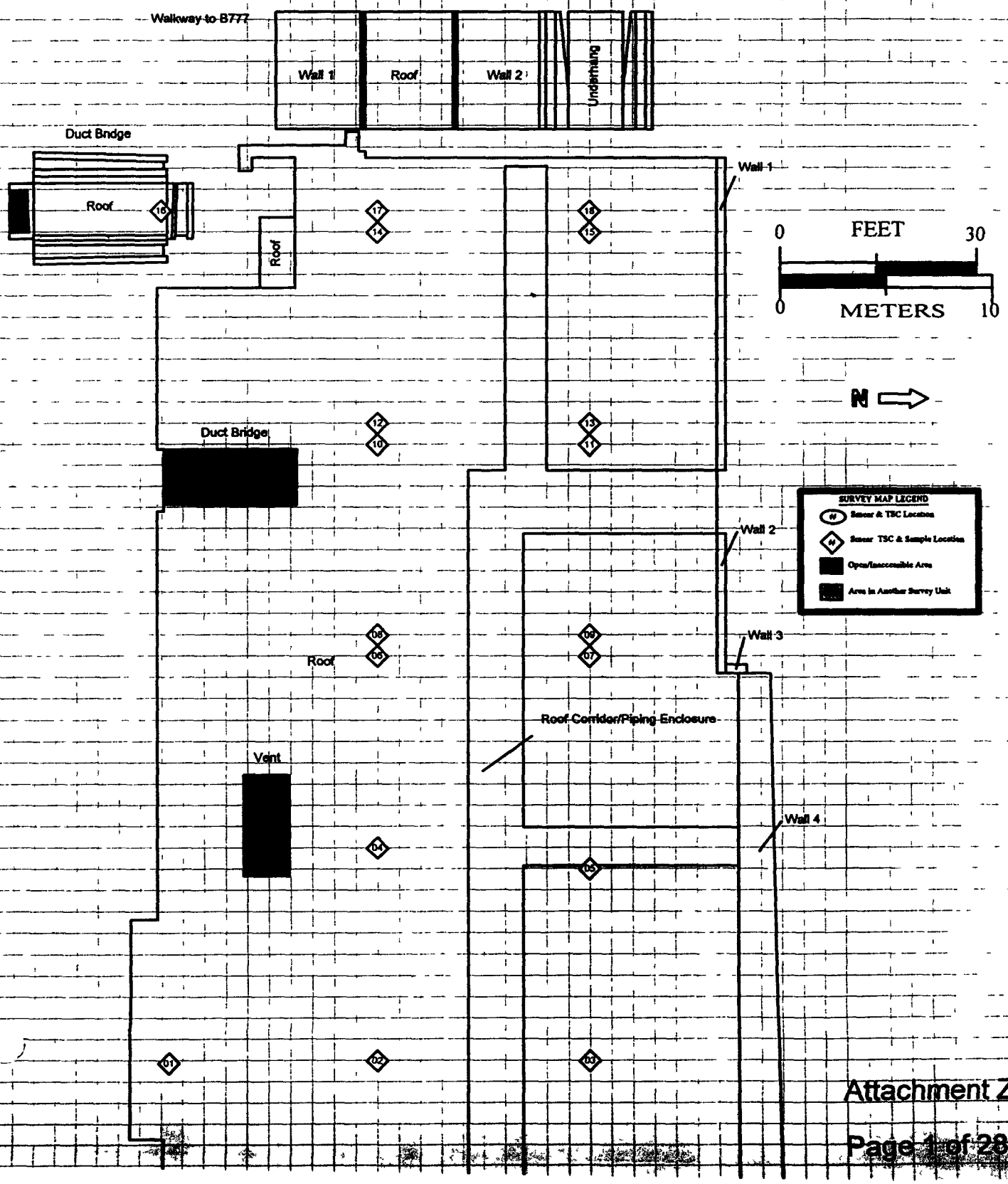
Sample/Survey Measurement Location Maps

RADIOLOGICAL CLOSEOUT SURVEY FOR THE 778 CLUSTER

Survey Area: H **Survey Unit: 77905** **Classification: 2**
Building: 779
Survey Unit Description. B779 Exterior Walls & Roof (Main Bldg, South/West Walls & Roof)

Total Floor Area· 1304 sq. m **Total Area· 2274 sq m** **Grid Size: 10m x 10m**

SURVEY UNIT 77905-MAP 1 OF 3



Attachment Z

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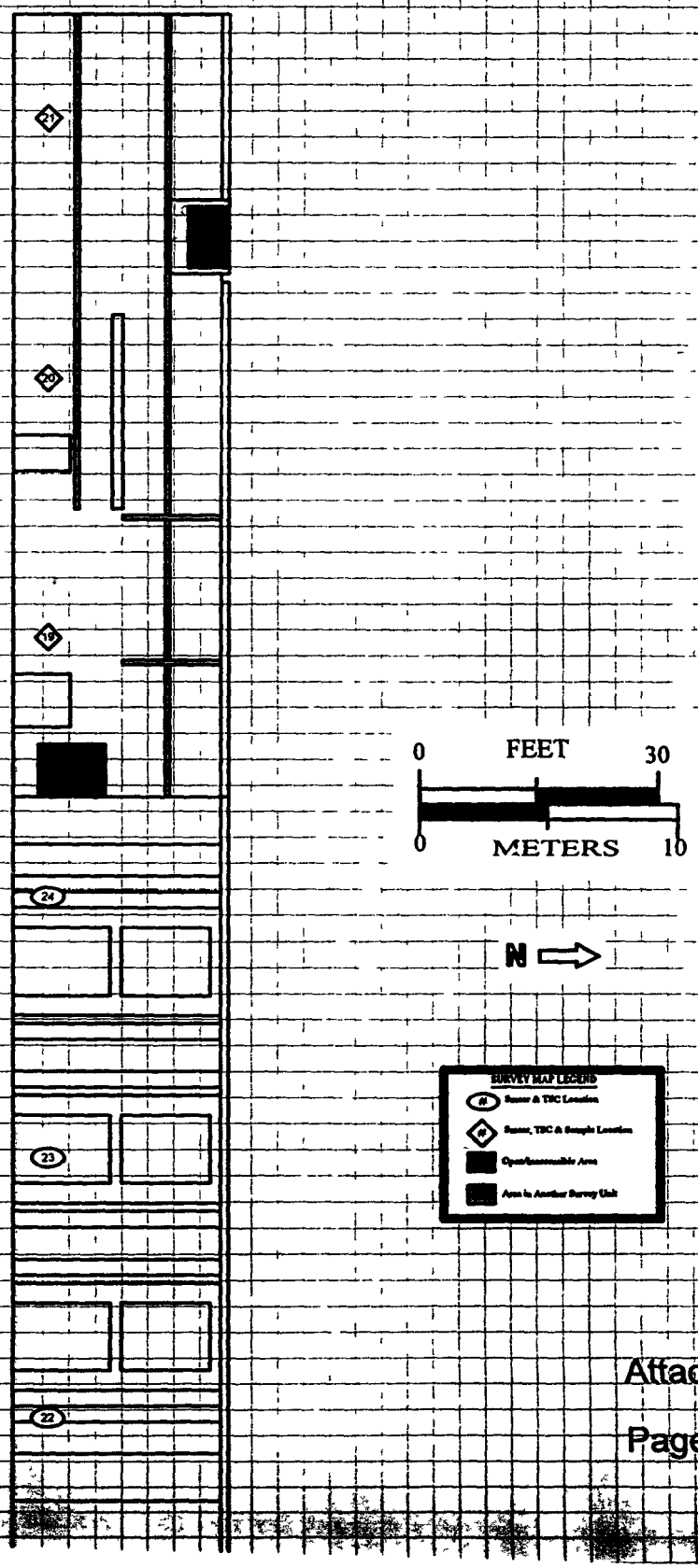
RADIOLOGICAL CLOSEOUT SURVEY FOR THE 779 CLUSTER

Survey Area. H **Survey Unit: 77905** **Classification: 2**
Building 779
Survey Unit Description. B779 Exterior Walls & Roof (Main Bldg, South/West Walls & Roof)

Total Floor Area 1304 sq m **Total Area: 2274 sq. m** **Grid Size: 10m x 10m**

SURVEY UNIT 77905-MAP 2 OF 3



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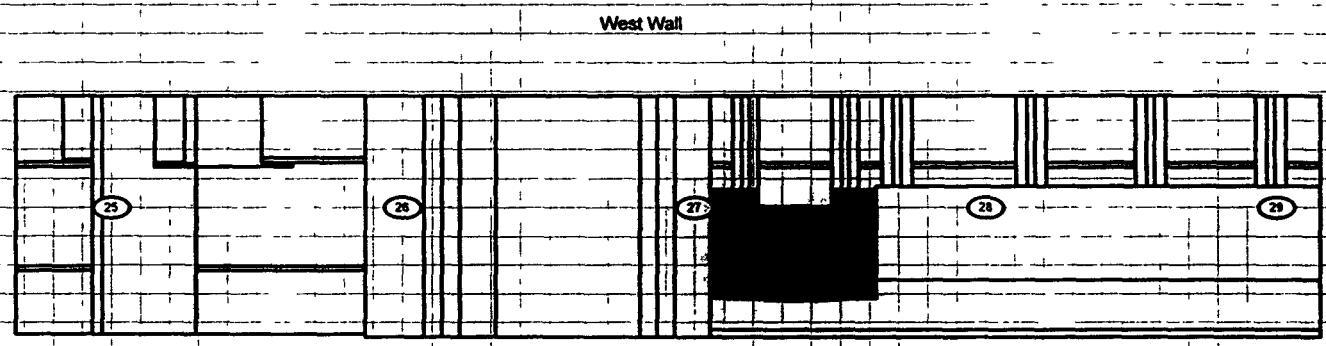
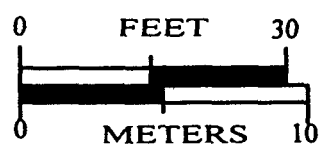
RADIOLOGICAL CLOSEOUT SURVEY FOR THE 779 CLUSTER

Survey Area: H **Survey Unit:** 77905 **Classification:** 2
Building: 779
Survey Unit Description. B779 Exterior Walls & Roof (Main Bldg, South/West Walls & Roof)

Total Floor Area 1304 sq. m **Total Area:** 2274 sq m **Grid Size.** 10m x 10m

SURVEY UNIT 77905-MAP 3 OF 3





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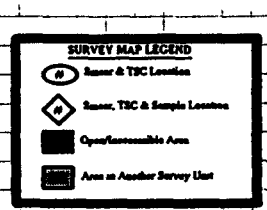
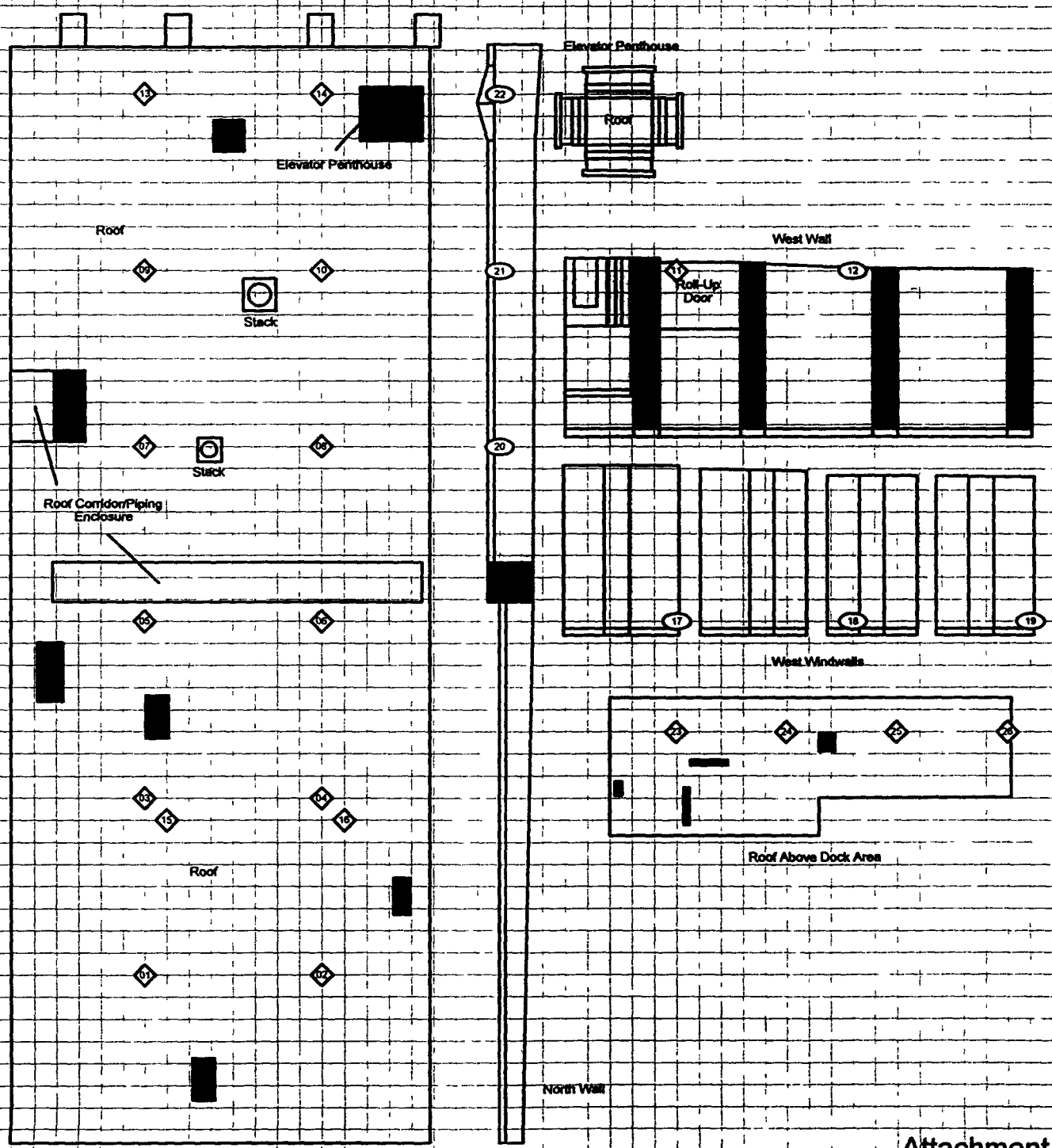


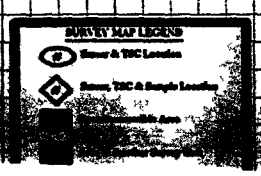
RADIOLOGICAL CLOSEOUT SURVEY FOR THE 779 CLUSTER

Survey Area: H **Survey Unit: 77906** **Classification: 2**
Building: 779
Survey Unit Description: B779 Exterior Walls & Roof (W. Wall Outside Rm 142 & Roof)

Total Floor Area. 887 sq m **Total Area: 1263 sq. m** **Grid Size: 8m x 8m**

SURVEY UNIT 77906-MAP 1 OF 1





Attachment Z

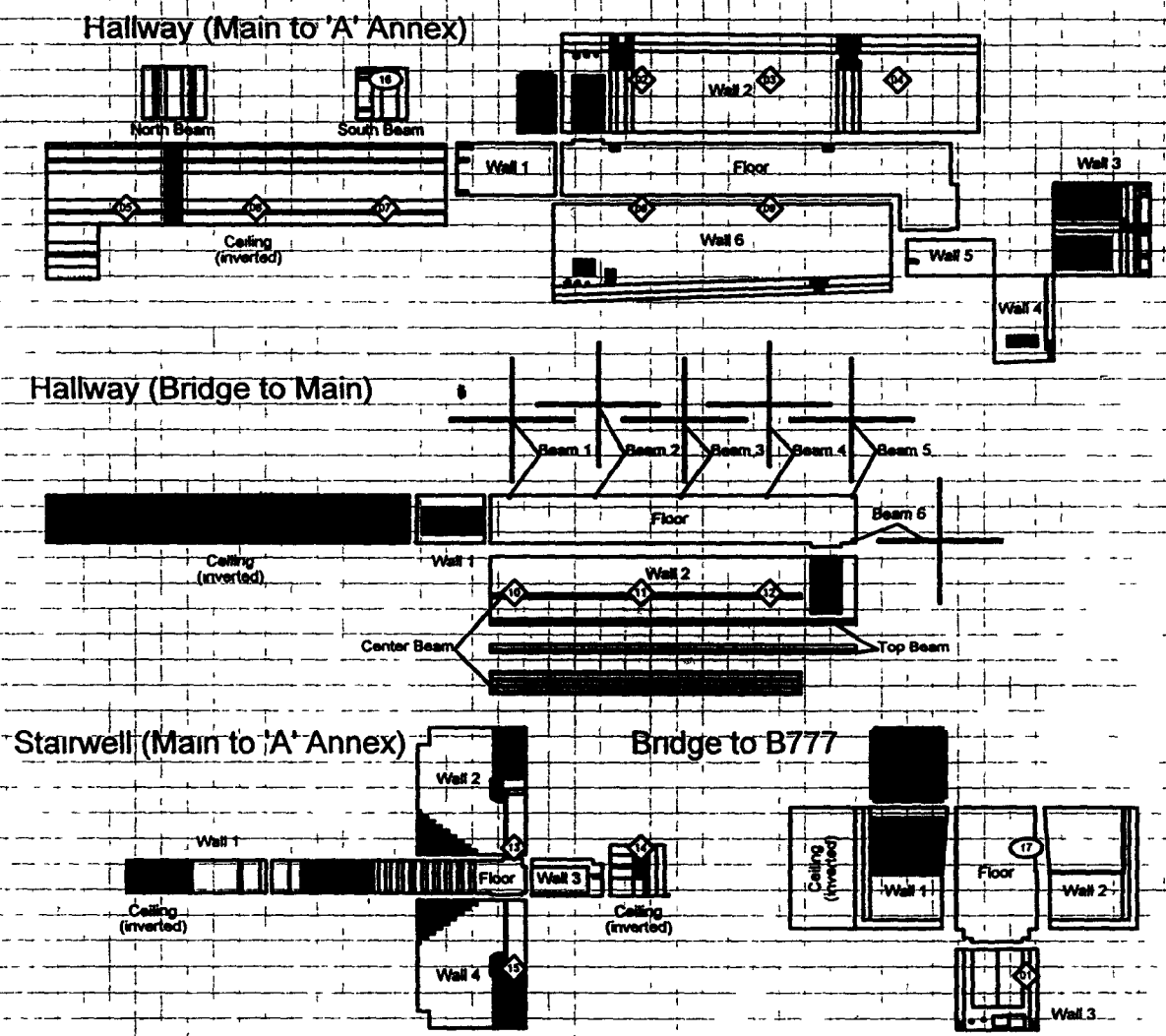
298

RADIOLOGICAL CLOSEOUT SURVEY FOR THE 779 CLUSTER

Survey Area F **Survey Unit: 77930** **Classification: 1**

Building: 779
Survey Unit Description B779 Second Floor Hallway to Annex 'A'/Bridge to B777
Total Floor Area 83 sq m Total Area. 447 sq. m Grid Size: 5.0 m x 5 0 m

SURVEY UNIT 77930 - MAP 1 OF 1



0 FEET 30
0 METERS 10

N

SURVEY MAP LEGEND
Sensor & TSC Location
Sensor, TSC & Sample Location
Open/Accessible Area
Area in Another Survey Unit

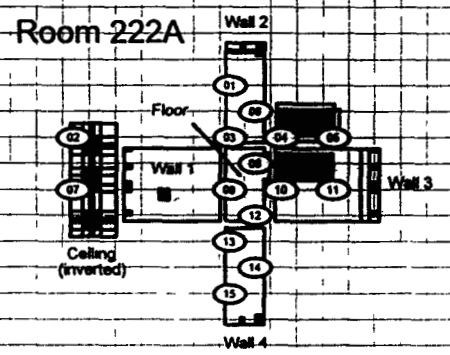
299

RADIOLOGICAL CLOSEOUT SURVEY FOR THE 779 CLUSTER

Survey Area: F **Survey Unit:** 77931 **Classification** 1

Building: 779
Survey Unit Description B779 Second Floor Main Room 222A
Total Floor Area 4 5 sq m **Total Area** 41 4 sq m **Grid Size** 2.0 m x 2 0 m

SURVEY UNIT 77931 - MAP 1 OF 1



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Attachment Z

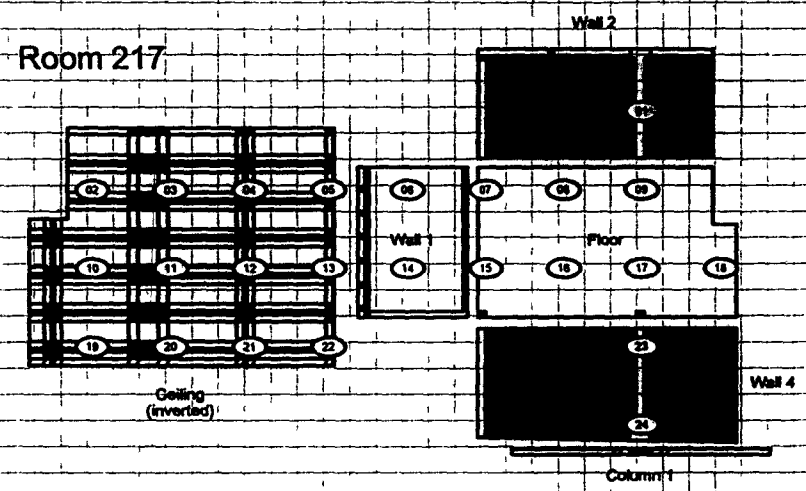
300

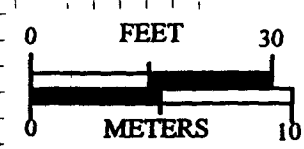
RADIOLOGICAL CLOSEOUT SURVEY FOR THE 779 CLUSTER

Survey Area F **Survey Unit:** 77932 **Classification:** 1

Building. 779
Survey Unit Description B779 Second Floor Main Bldg Room 217
Total Floor Area 55 sq m **Total Area** 177 sq. m **Grid Size:** 3.0 m x 3.0 m

SURVEY UNIT 77932 - MAP 1 OF 1





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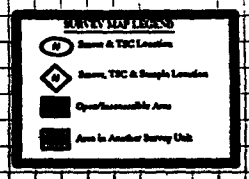


Attachment Z

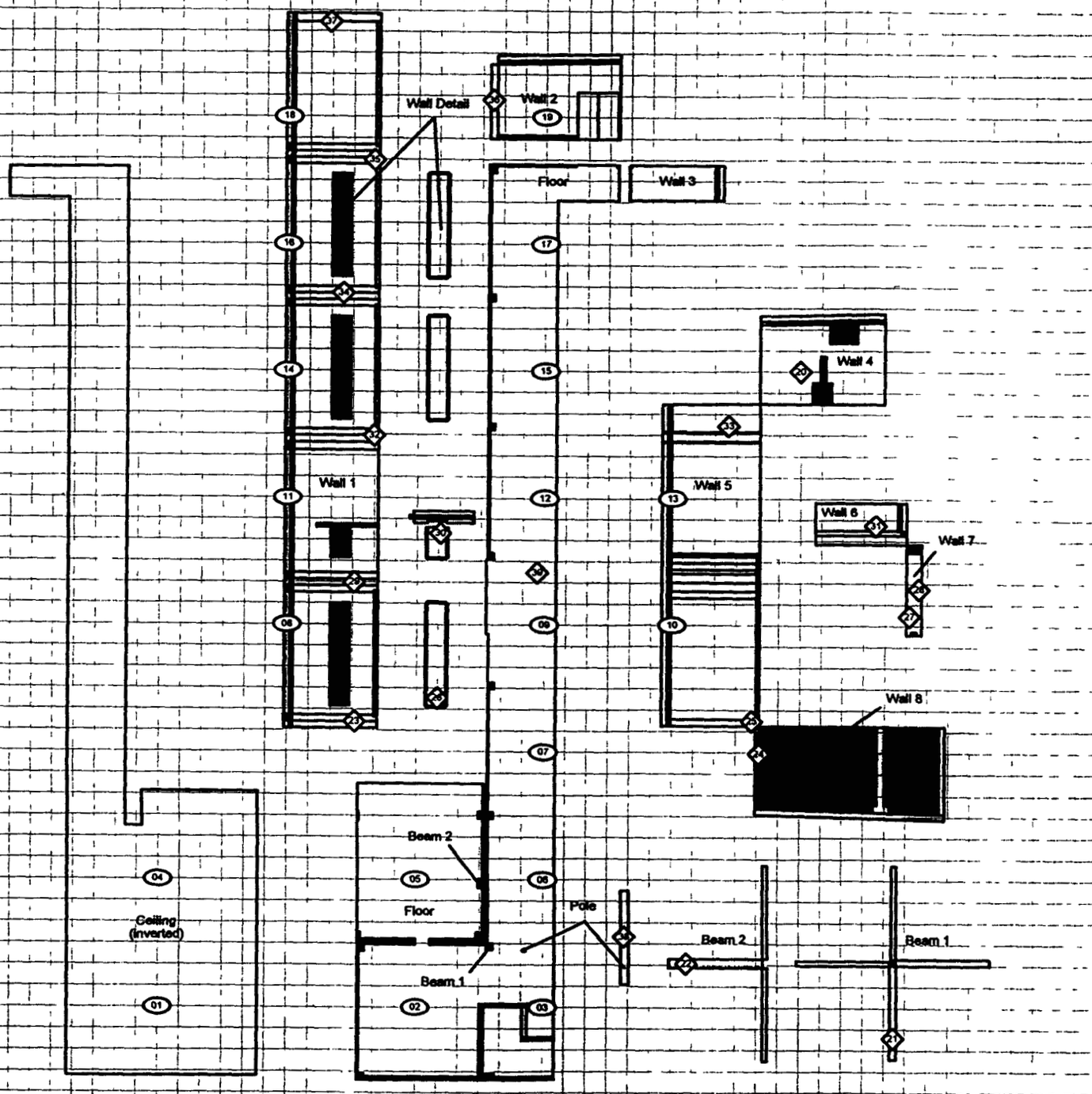
301

RADIOLOGICAL CLOSEOUT SURVEY FOR THE 779 CLUSTER

Survey Area: F **Survey Unit:** 77933 **Classification:** 2
Building. 779
Survey Unit Description. B779 Second Floor Main Bldg Rooms 219, 221, 221A, 221B, 221C, 223, 225 229, 230, 231, 232, 233, 235, 271, 273, 274, 275 & 277

Total Floor Area. 217 sq. m **Total Area.** 704 sq. m **Grid Size:** 6.0 m x 6 0 m

SURVEY UNIT 77933 - MAP 1 OF 1



0 FEET 30
0 METERS 10

N

SURVEY MAP LEGEND
Beam & TBC Location
Beam, TBC & Sample Location
Open/Inaccessible Area
Area in Another Survey Unit

Attachment Z

302

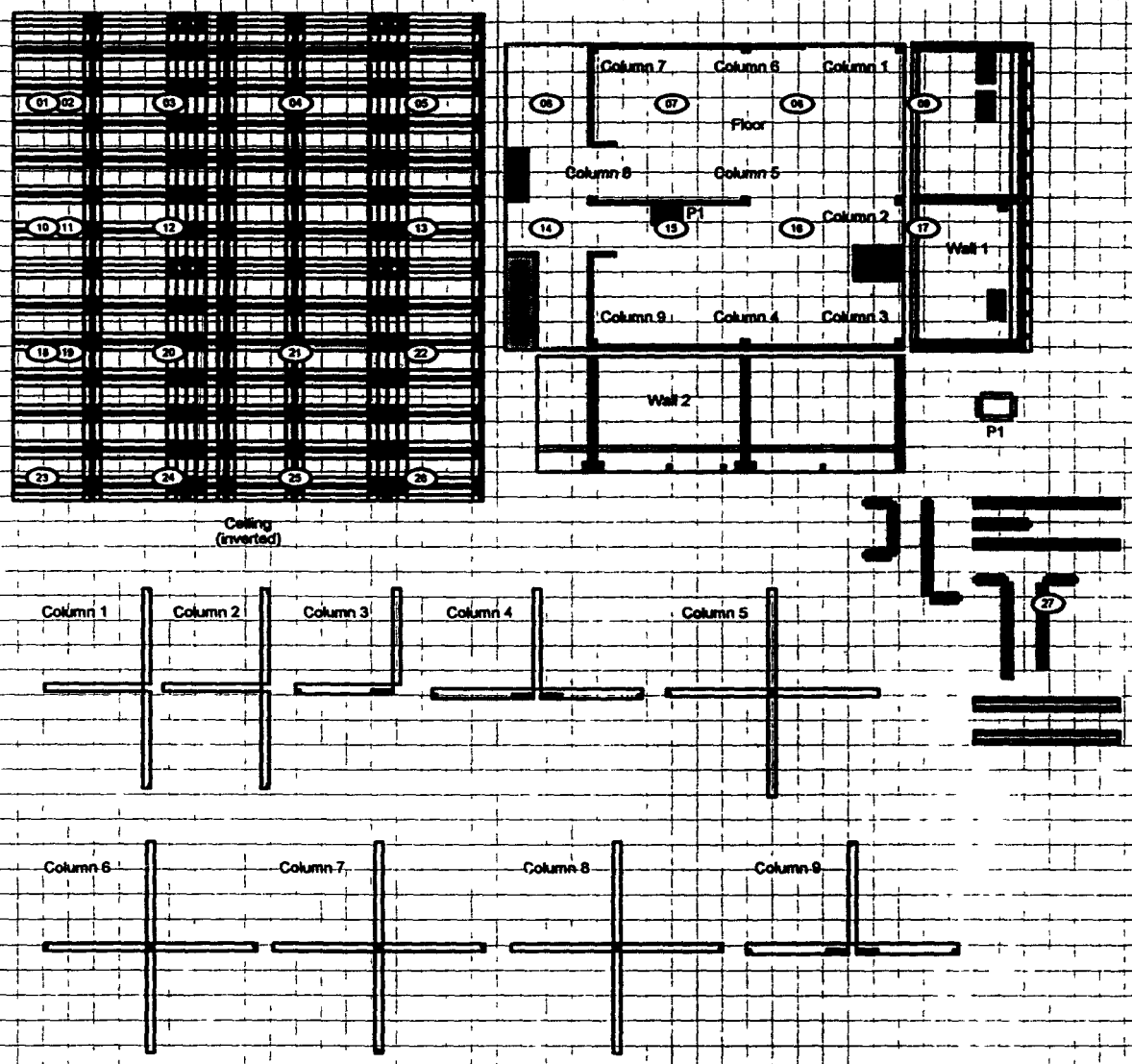
RADIOLOGICAL CLOSEOUT SURVEY FOR THE 779 CLUSTER

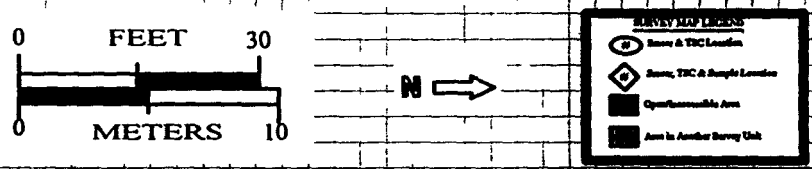
Survey Area F **Survey Unit: 77934** **Classification: 1**

Building 779
Survey Unit Description B779 Second Floor Main Rooms 218 & 220
Total Floor Area 178 sq m Total Area: 661 sq m Grid Size 5 0 m x 5 0 m

SURVEY UNIT 77934 - MAP 1 OF 1

Rooms 218 & 220





Attachment Z

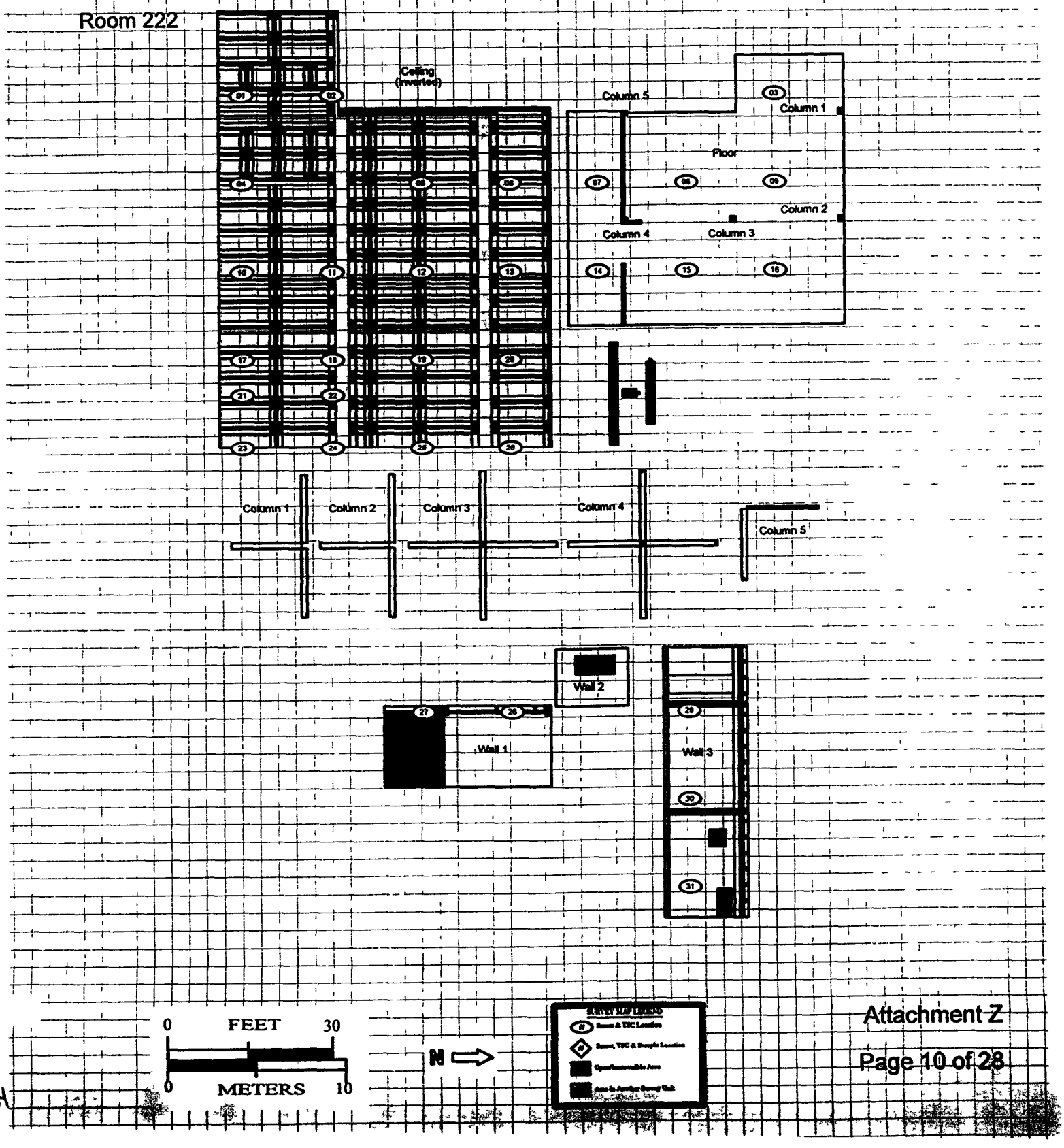
303

RADIOLOGICAL CLOSEOUT SURVEY FOR THE 779 CLUSTER

Survey Area: F **Survey Unit: 77935** **Classification: 1**

Building: 779
Survey Unit Description B779 Second Floor Main Room 222
Total Floor Area: 205 sq m Total Area: 687 sq. m Grid Size. 5 0 m x 5 0 m

SURVEY UNIT 77935 - MAP 1 OF 1



Attachment Z

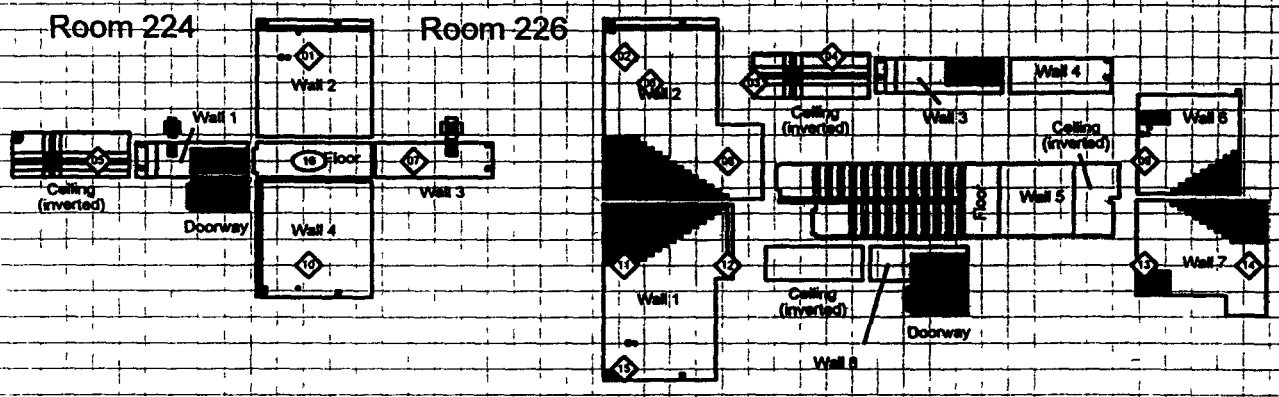
304

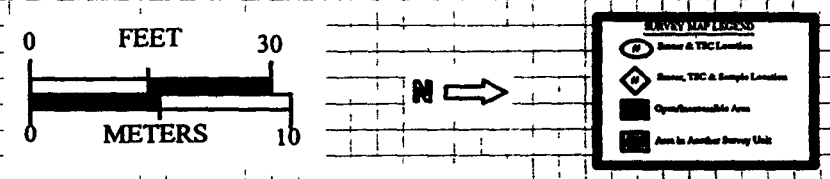
RADIOLOGICAL CLOSEOUT SURVEY FOR THE 779 CLUSTER

Survey Area F **Survey Unit: 77936** **Classification. 1**

Building 779
Survey Unit Description B779 Second Floor Main Rooms 224 & 226
Total Floor Area 26 sq m Total Area. 197 sq m Grid Size. 4 0 m x 4 0 m

SURVEY UNIT 77936 - MAP 1 OF 1





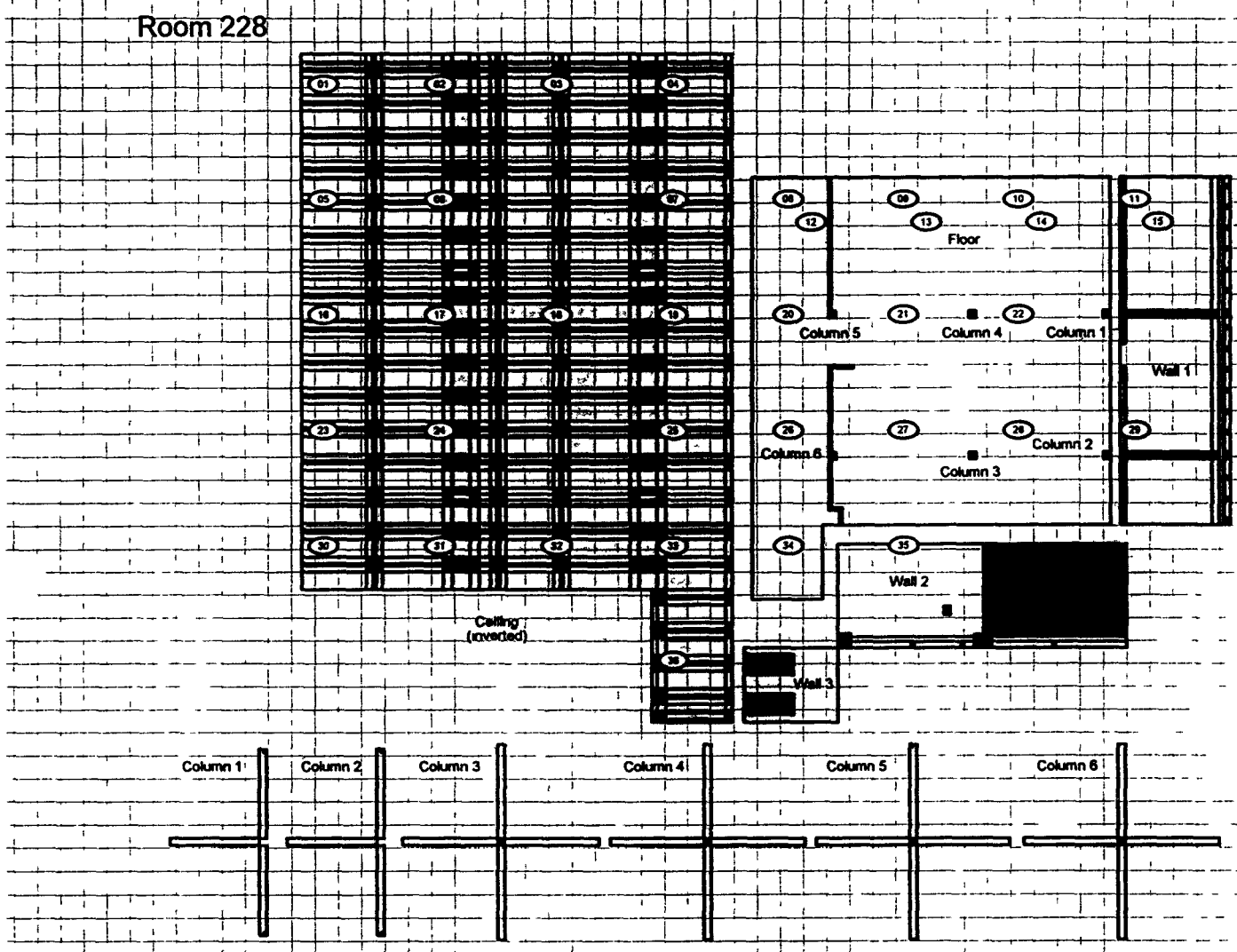
305

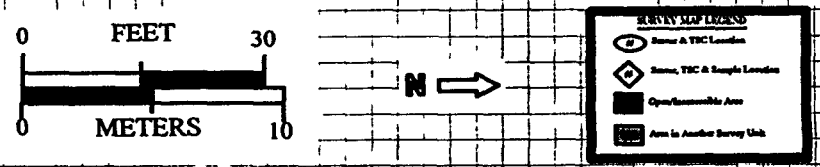
RADIOLOGICAL CLOSEOUT SURVEY FOR THE 779 CLUSTER

Survey Area: F **Survey Unit: 77937** **Classification: 1**

Building: 779
Survey Unit Description B779 Second Floor Main Room 228
Total Floor Area. 240 sq m Total Area. 770 sq m Grid Size 5.0 m x 5.0 m

SURVEY UNIT 77937 - MAP 1 OF 1





Attachment Z

306

RADIOLOGICAL CLOSEOUT SURVEY FOR THE 779 CLUSTER

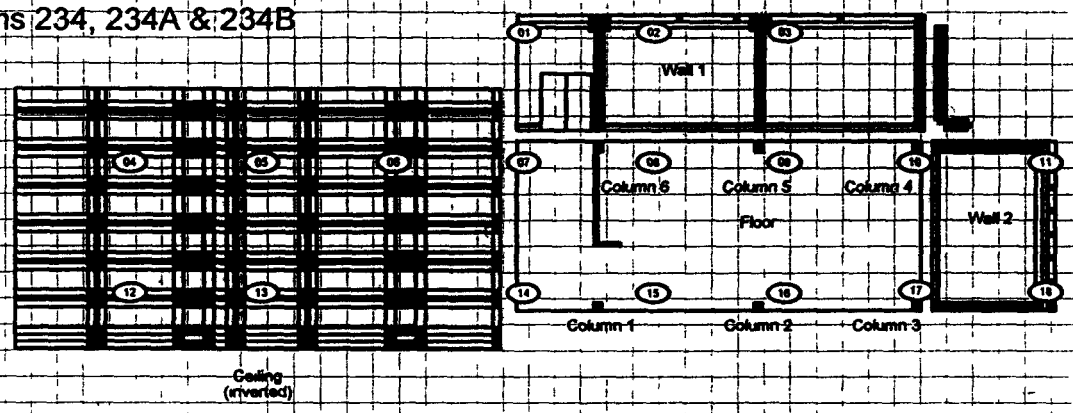
Survey Area F **Survey Unit: 77938** **Classification: 1**

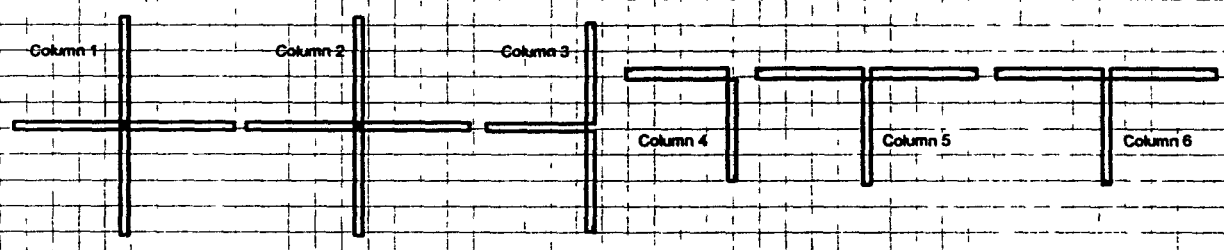
Building 779
Survey Unit Description. B779 Second Floor Main Rooms 234, 234A & 234B

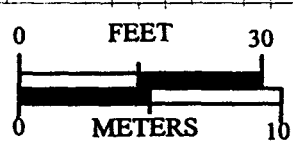
Total Floor Area 99 sq m **Total Area 377 sq. m** **Grid Size. 5 0 m x 5 0 m**

SURVEY UNIT 77938 - MAP 1 OF 1

Rooms 234, 234A & 234B







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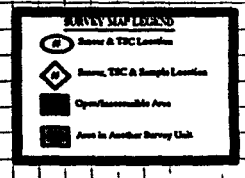


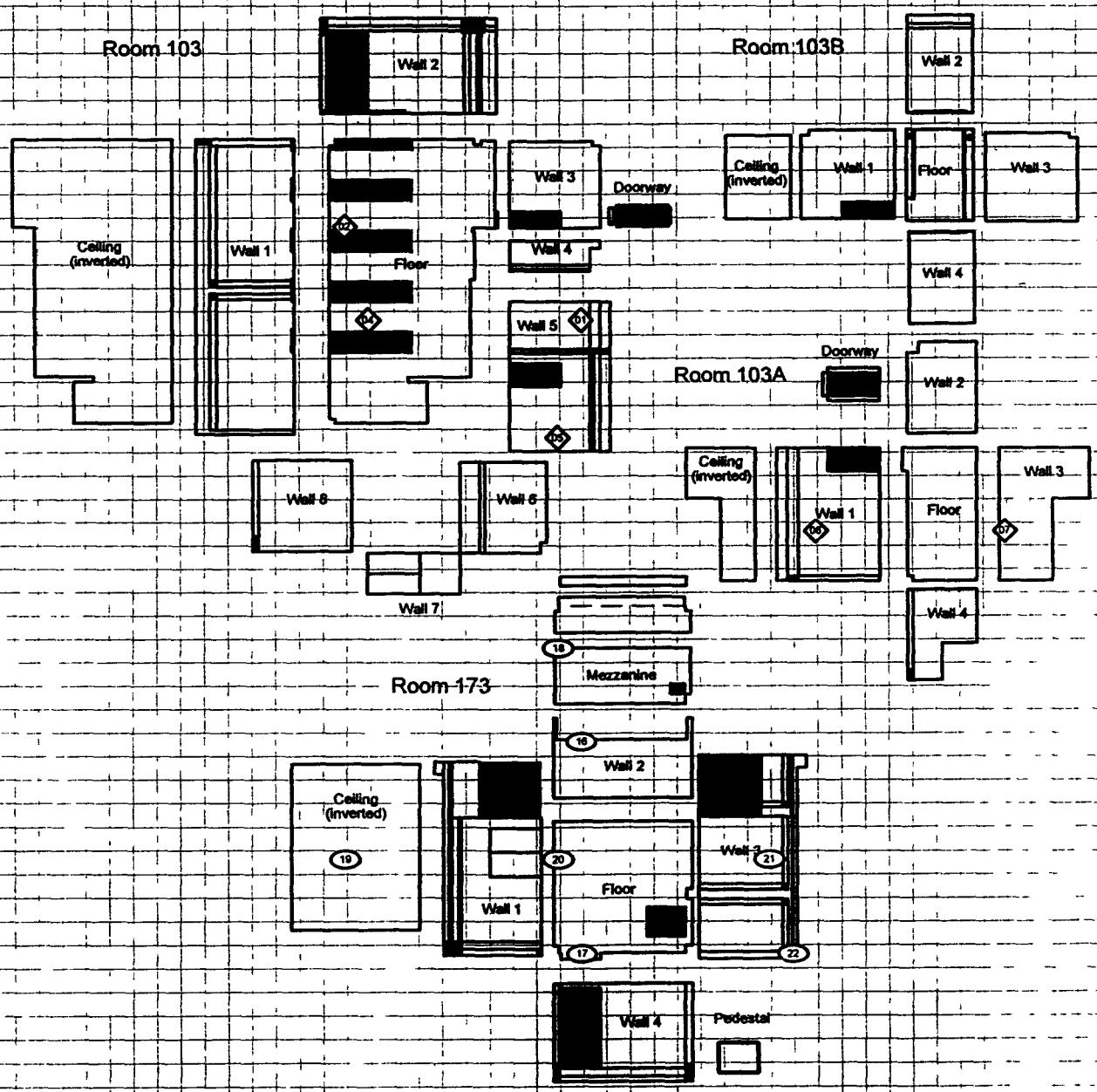
307

RADIOLOGICAL CLOSEOUT SURVEY FOR THE 779 CLUSTER

Survey Area. G **Survey Unit:** 77939 **Classification·** 2
Building: 779
Survey Unit Description· B779 First Floor Main Bldg Rooms 103/103A/103B/118/120/121/121A/121B/173

Total Floor Area. 292 sq m **Total Area.** 1213 sq. m **Grid Size.** 9.0 m x 9.0 m

SURVEY UNIT 77939 - MAP 1 OF 2



0 FEET 30
0 METERS 10

N

SURVEY MAP LEGEND
Sweep & TBC Location
Sweep, TBC & Sample Location
Open/Inaccessible Area
Area in Another Survey Unit

Attachment Z

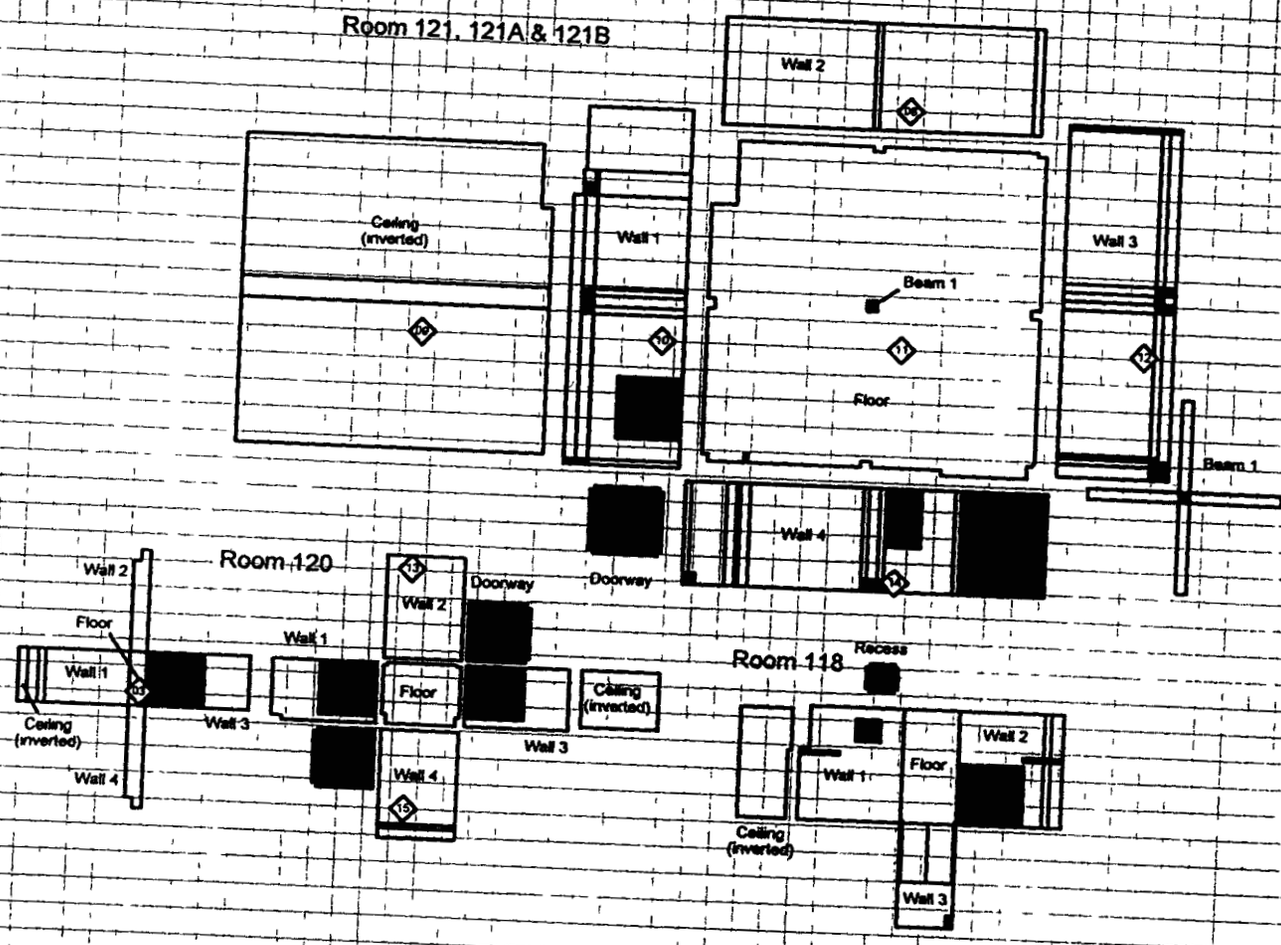
303

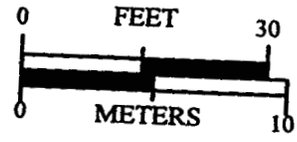
RADIOLOGICAL CLOSEOUT SURVEY FOR THE 779 CLUSTER

Survey Area: G
Building: 779
Survey Unit: 77939
Classification: 2
Survey Unit Description: B779 First Floor Main Bldg Rooms 103/103A/103B/118/120/121/121A/121B/173

Total Floor Area: 292 sq m
Total Area. 1213 sq m
Grid Size 9.0 m x 9 0 m

SURVEY UNIT 77939 - MAP 2 OF 2





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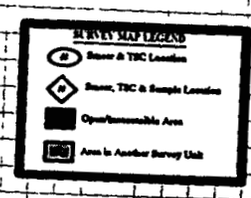


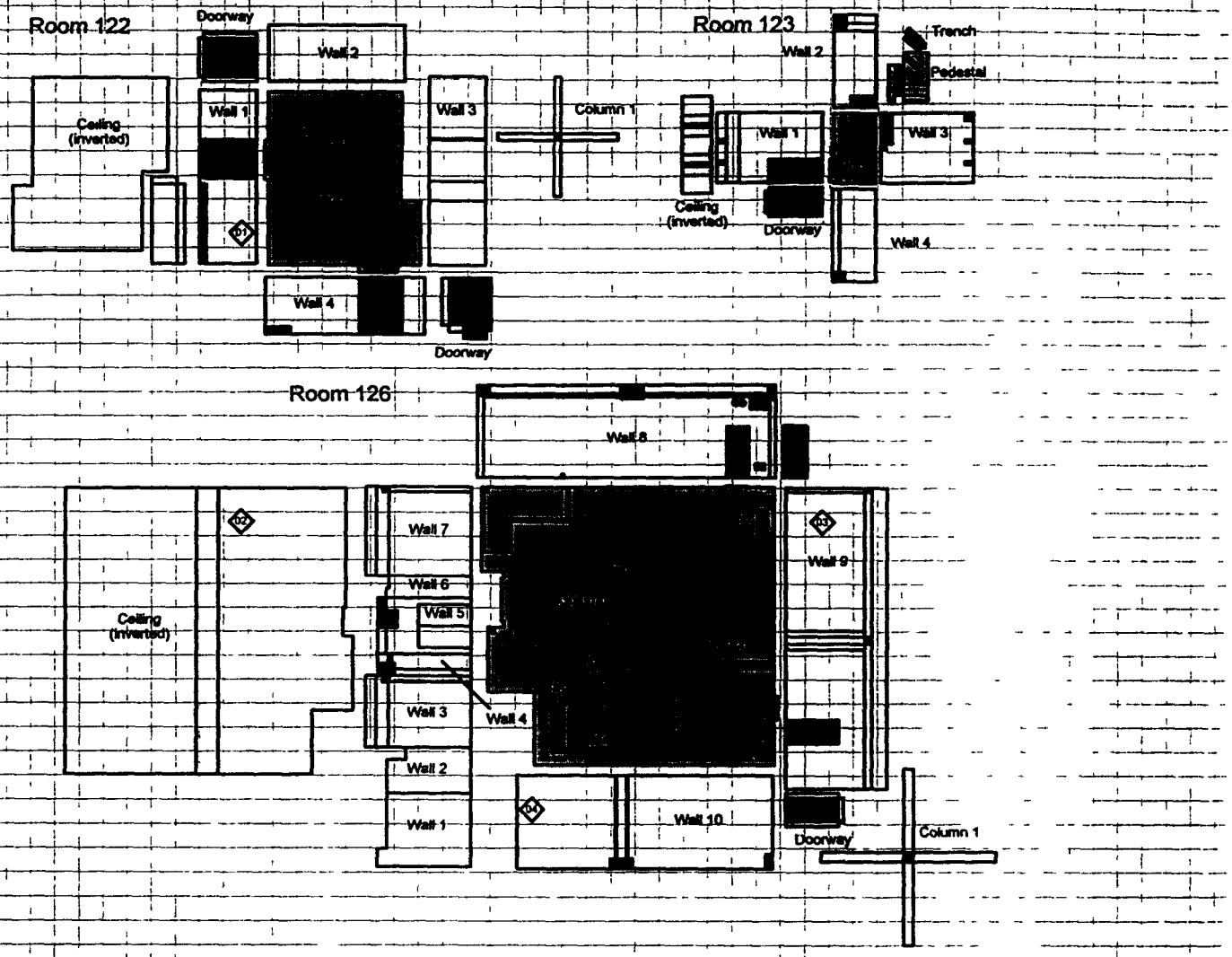
309

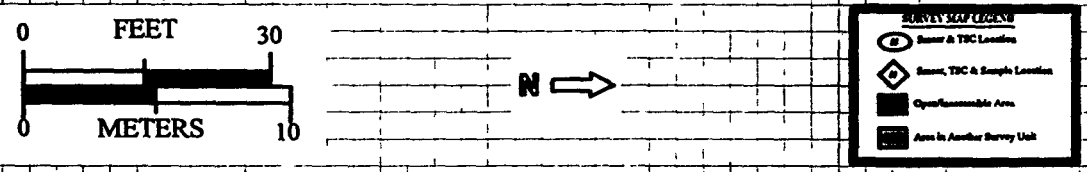
RADIOLOGICAL CLOSEOUT SURVEY FOR THE 779 CLUSTER

Survey Area: G **Survey Unit: 77940** **Classification: 2**
Building: 779
Survey Unit Description **B779 First Floor Main Bldg Rooms 122, 123, 126, 127, 142 & 143 Walls & Ceilings**

Total Floor Area: 962 sq m **Total Area 2839 sq m** **Grid Size: 12.0 m x 12.0 m**

SURVEY UNIT 77940 - MAP 1 OF 5





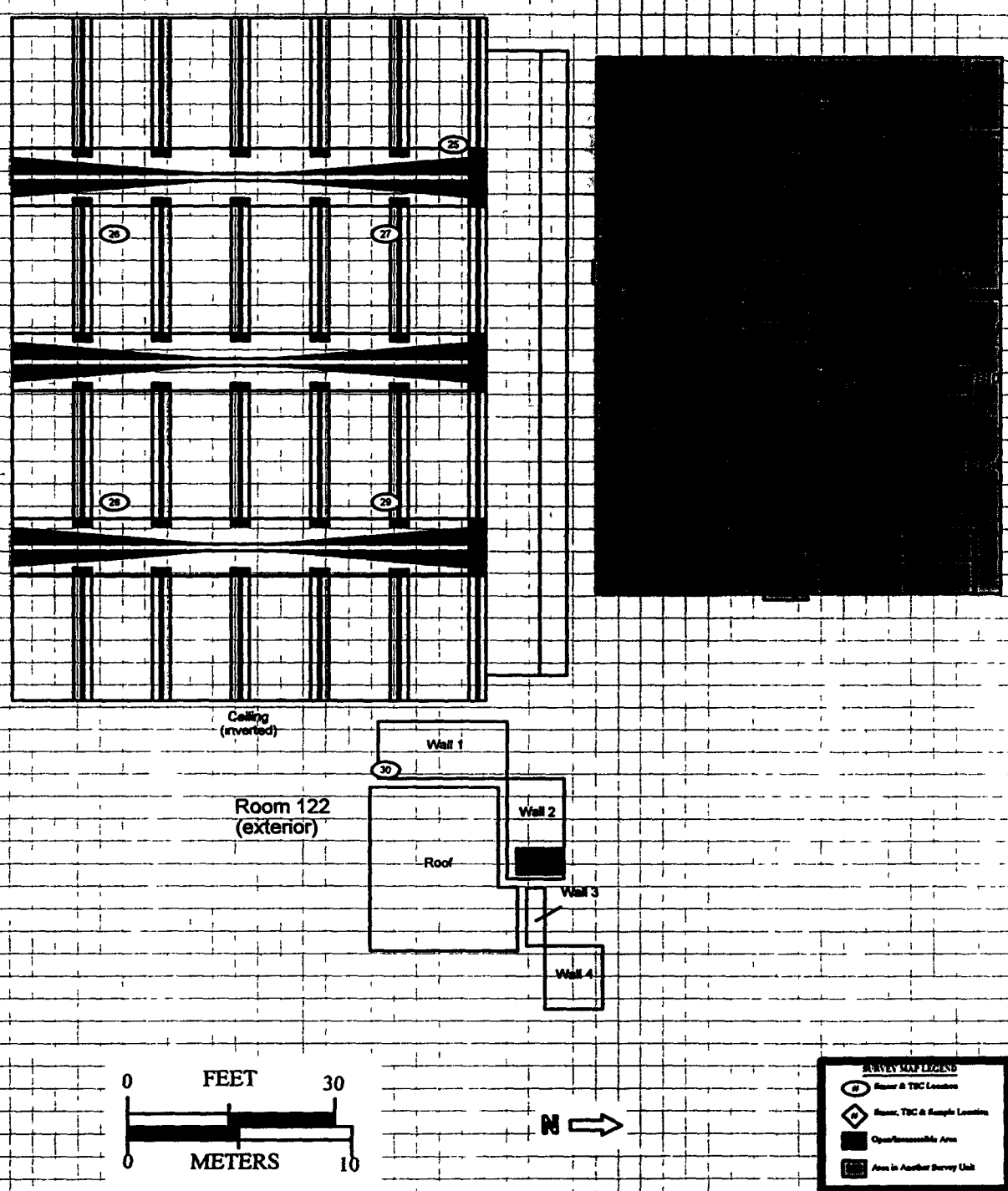
310

RADIOLOGICAL CLOSEOUT SURVEY FOR THE 779 CLUSTER

Survey Area: G **Survey Unit:** 77940 **Classification:** 2
Building: 779
Survey Unit Description: B779 First Floor Main Bldg Rooms 122, 123, 126, 127, 142 & 143 Walls & Ceilings

Total Floor Area: 962 sq m **Total Area** 2839 sq m **Grid Size** 12.0 m x 12.0 m

SURVEY UNIT 77940 - MAP 2 OF 5



312

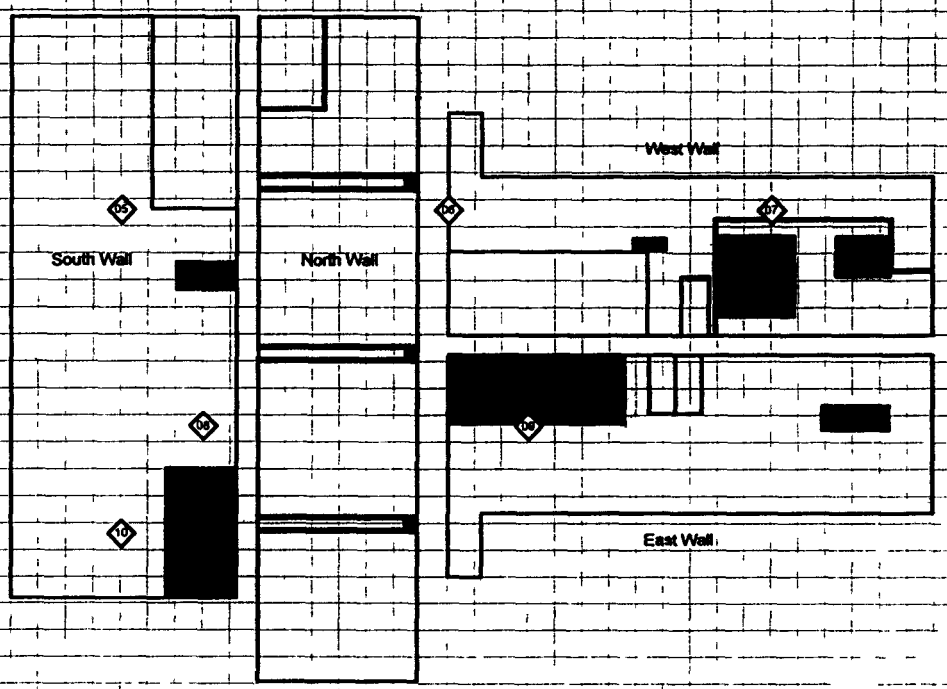
RADIOLOGICAL CLOSEOUT SURVEY FOR THE 779 CLUSTER

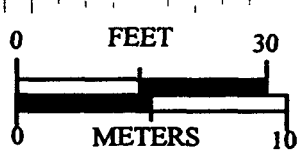
Survey Area: G **Survey Unit: 77940** **Classification: 2**
Building: 779
Survey Unit Description **B779 First Floor Main Bldg Rooms 122, 123, 126, 127, 142 & 143 Walls & Ceilings**

Total Floor Area: 962 sq m **Total Area. 2839 sq. m** **Grid Size: 12.0 m x 12.0 m**

SURVEY UNIT 77940 - MAP 3 OF 5

Room 127 (continued)





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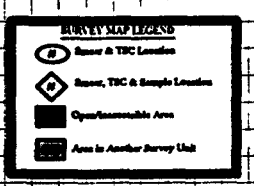
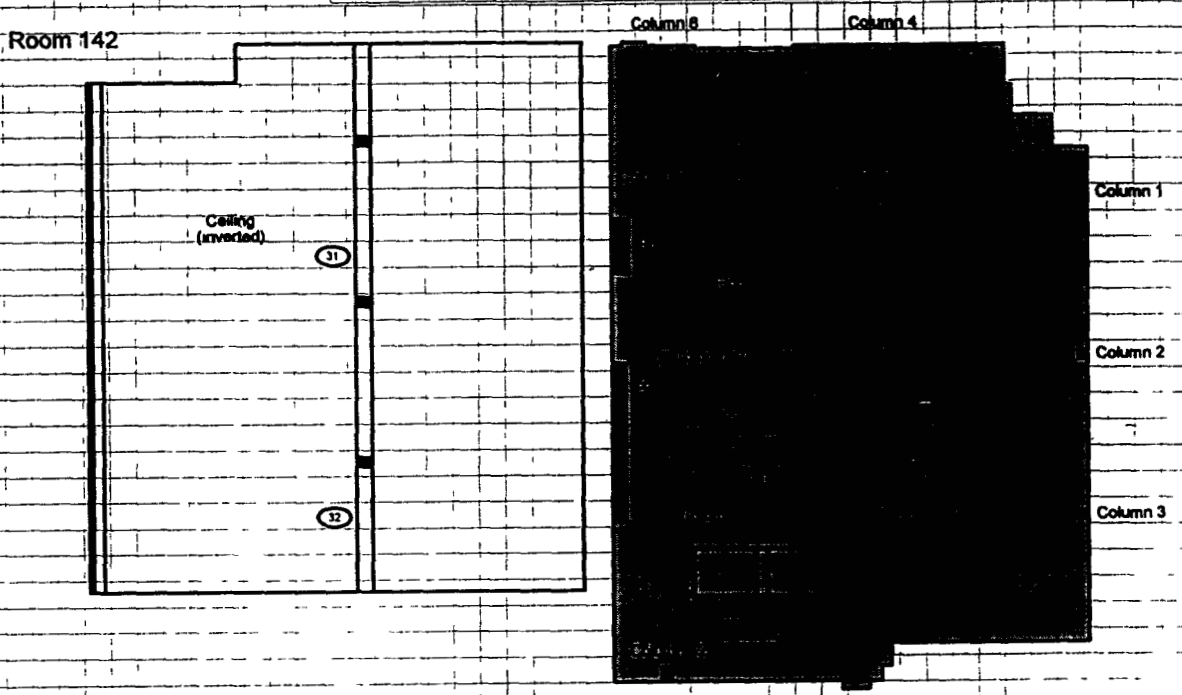


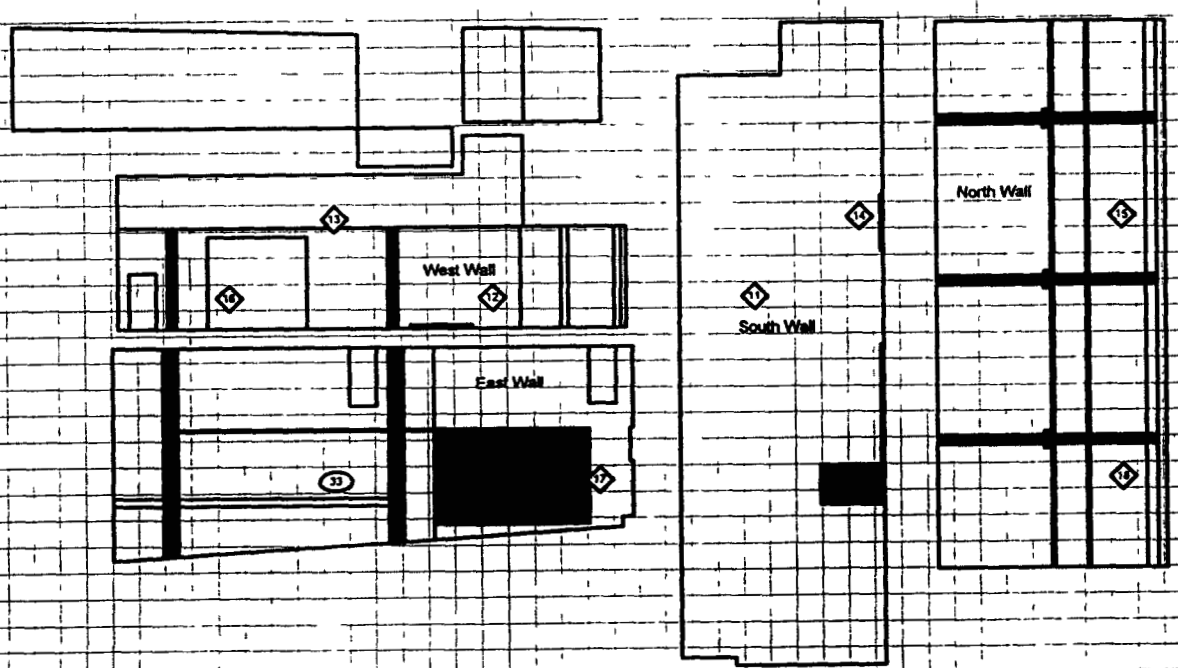
RADIOLOGICAL CLOSEOUT SURVEY FOR THE 779 CLUSTER

Survey Area. G **Survey Unit.** 77940 **Classification.** 2
Building 779
Survey Unit Description B779 First Floor Main Bldg Rooms 122, 123, 126, 127, 142 & 143 Walls & Ceilings

Total Floor Area. 962 sq m **Total Area·** 2839 sq m **Grid Size** 10 0 m x 10.0 m

SURVEY UNIT 77940 - MAP 4 OF 5





0 FEET 30
0 METERS 10

N

SURVEY MAP LEGEND

Attachment Z

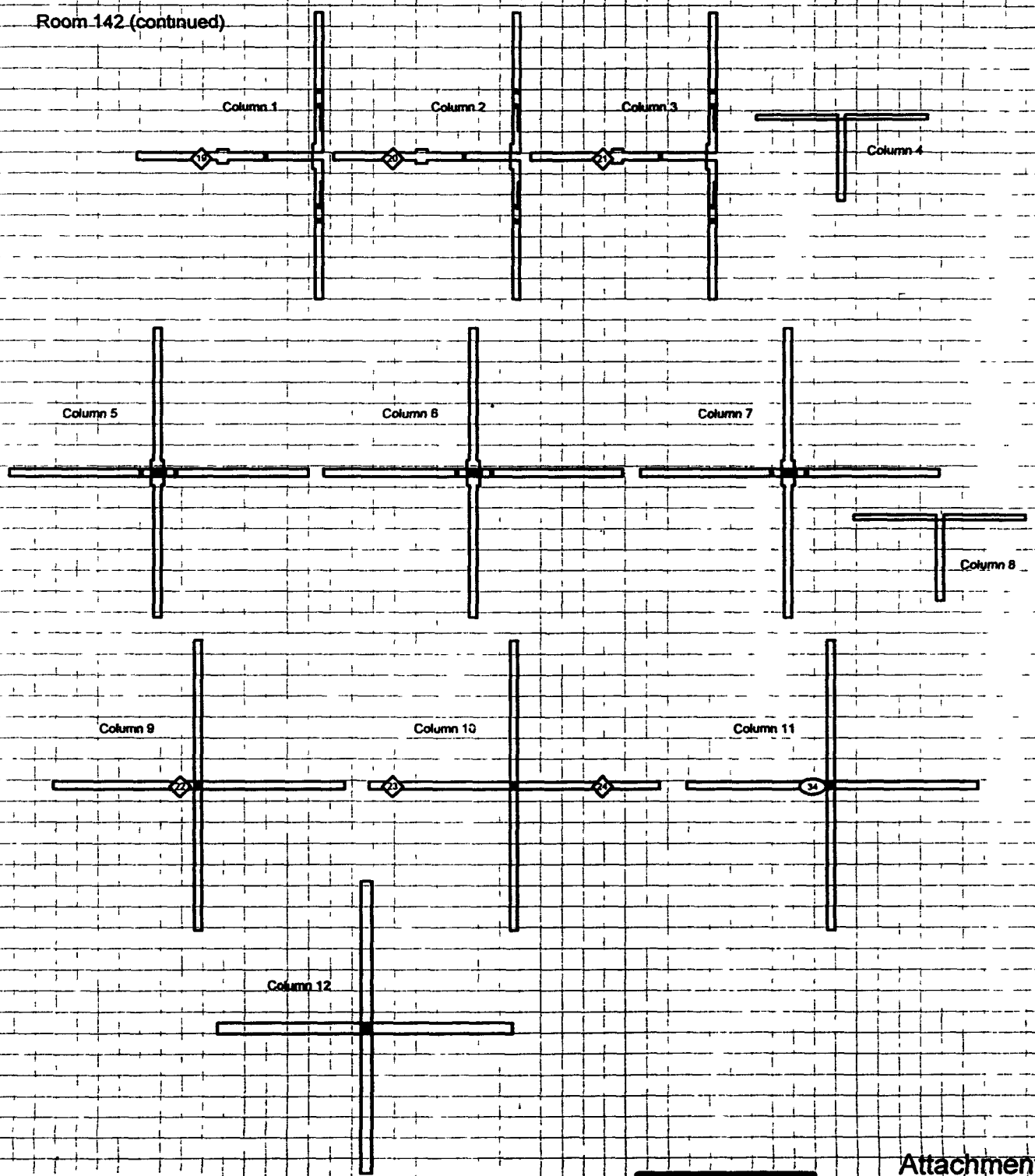
314

RADIOLOGICAL CLOSEOUT SURVEY FOR THE 779 CLUSTER

Survey Area. G **Survey Unit: 77940** **Classification: 2**
Building: 779
Survey Unit Description: B779 First Floor Main Bldg Rooms 122, 123, 126, 127, 142 & 143 Walls & Ceilings

Total Floor Area: 962 sq. m **Total Area. 2839 sq m** **Grid Size: 10.0 m x 10.0 m**

SURVEY UNIT 77940 - MAP 5 OF 5



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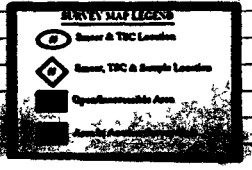


Attachment Z

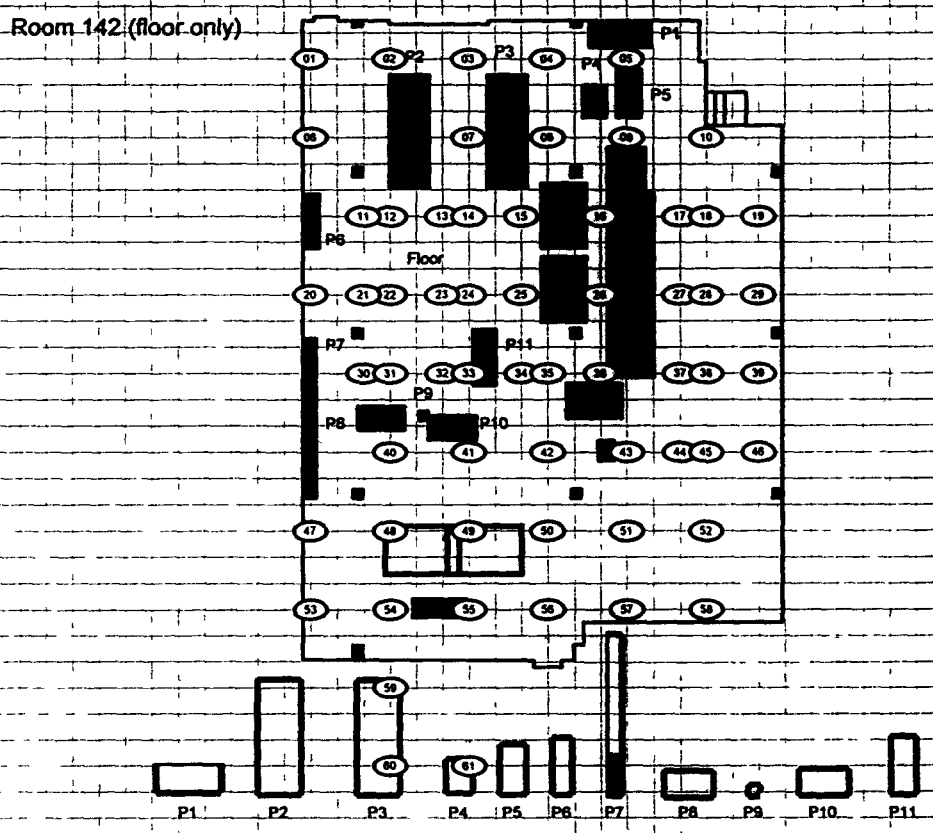
315

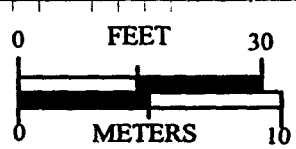
RADIOLOGICAL CLOSEOUT SURVEY FOR THE 779 CLUSTER

Survey Area G **Survey Unit. 77941** **Classification: 1**
Building 779
Survey Unit Description B779 First Floor Main Bldg Rooms 142 & 143 (Floor Only)

Total Floor Area 405 sq m **Total Area 405 sq m** **Grid Size 3 0 m x 3.0 m**

SURVEY UNIT 77941 - MAP 1 OF 1





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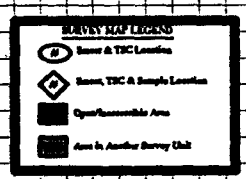


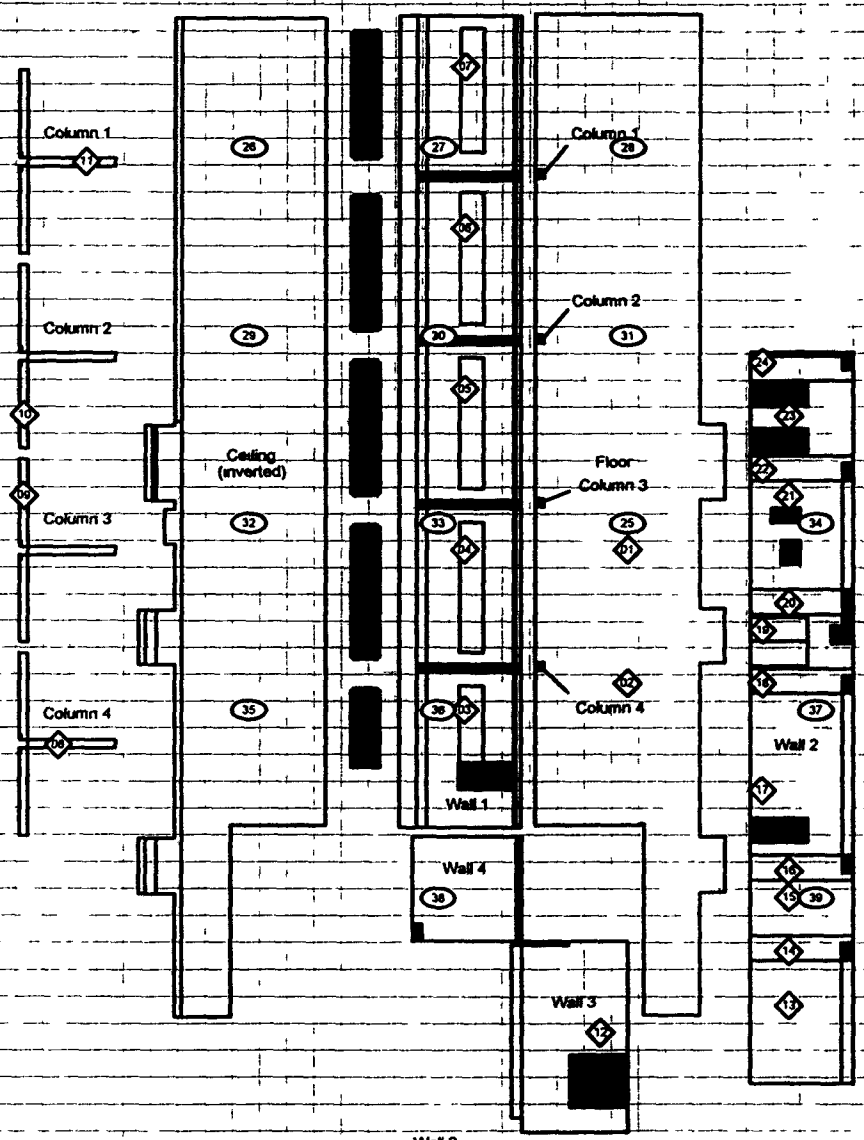
316

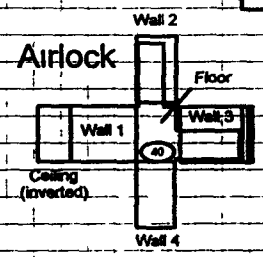
RADIOLOGICAL CLOSEOUT SURVEY FOR THE 779 CLUSTER

Survey Area G **Survey Unit:** 77942 **Classification:** 2
Building: 779
Survey Unit Description B779 First Floor Main Bldg Rooms 119, 124, 125, 128, 132, 134, 135, 136, 138 & Airlock

Total Floor Area 203 sq m **Total Area:** 675 sq m **Grid Size:** 7 0 m x 7.0 m

SURVEY UNIT 77942 - MAP 1 OF 1





0 FEET 30
0 METERS 10

N

SURVEY MAP LEGEND
Survey & TBC Location
Survey, TBC & Sample Location
Opportunistic Area
Area in Another Survey Unit

Attachment Z

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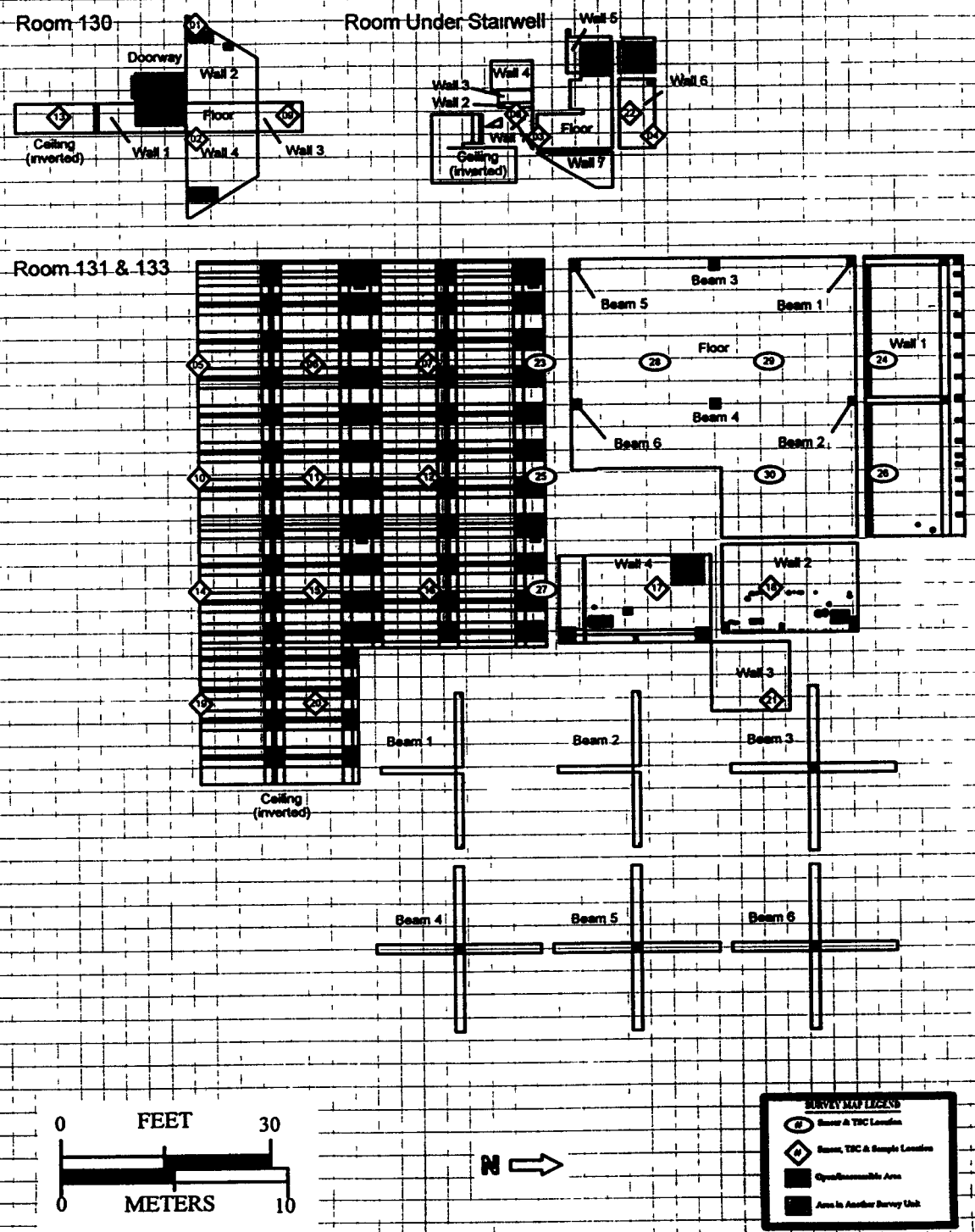
RADIOLOGICAL CLOSEOUT SURVEY FOR THE 779 CLUSTER

Survey Area G **Survey Unit:** 77944 **Classification.** 1
Building: 779
Survey Unit Description B779 First Floor Main Bldg Rooms 130, 131, 133 & Room Under Stairwell

Total Floor Area 144 sq. m **Total Area** 576 sq. m **Grid Size:** 5.0 m x 5 0 m

SURVEY UNIT 77944 - MAP 1 OF 1



Attachment Z

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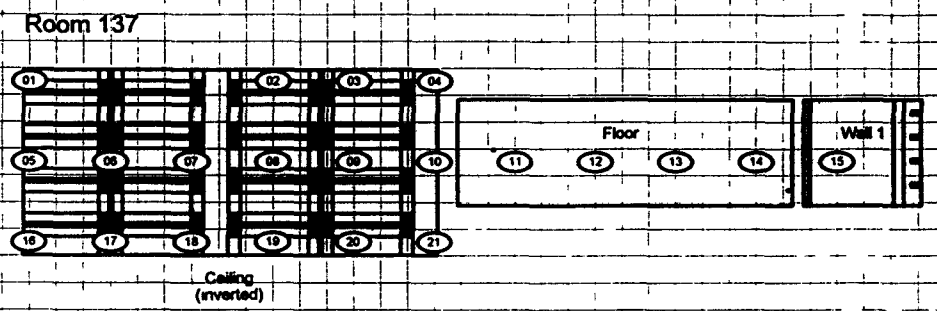
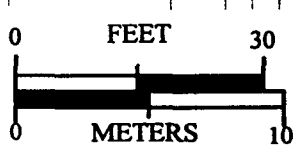
RADIOLOGICAL CLOSEOUT SURVEY FOR THE 779 CLUSTER

Survey Area: G **Survey Unit:** 77945 **Classification:** 1
Building 779
Survey Unit Description B779 First Floor Main Bldg Room 137

Total Floor Area 49 sq m **Total Area:** 161 sq. m **Grid Size** 3.0 m x 3 0 m

SURVEY UNIT 77945 - MAP 1 OF 1





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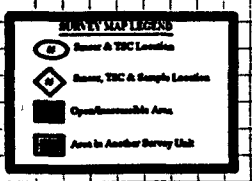

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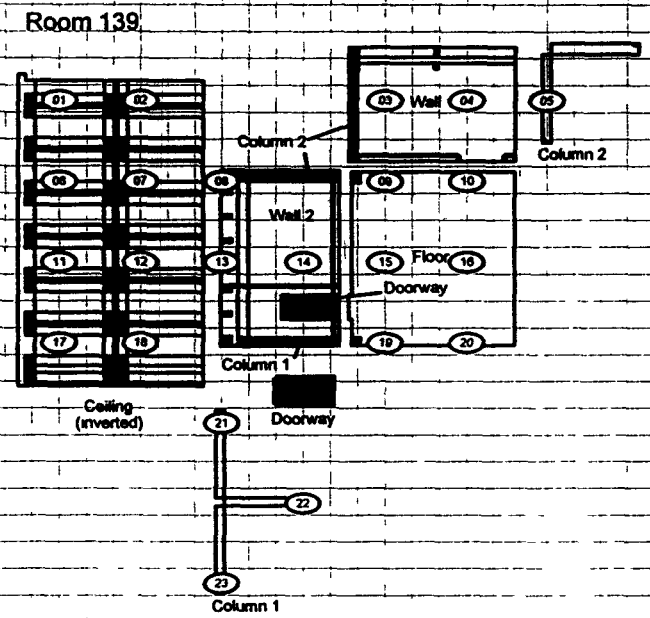
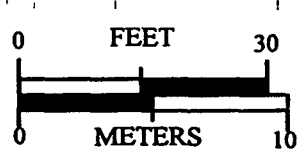
RADIOLOGICAL CLOSEOUT SURVEY FOR THE 779 CLUSTER

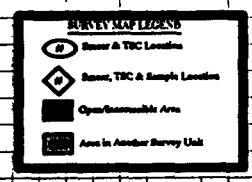
Survey Area: G **Survey Unit: 77946** **Classification: 1**
Building: 779
Survey Unit Description: B779 First Floor Main Bldg Room 139

Total Floor Area 39 sq. m **Total Area: 161 sq m** **Grid Size. 3 0 m x 3 0 m**

SURVEY UNIT 77946 - MAP 1 OF 1





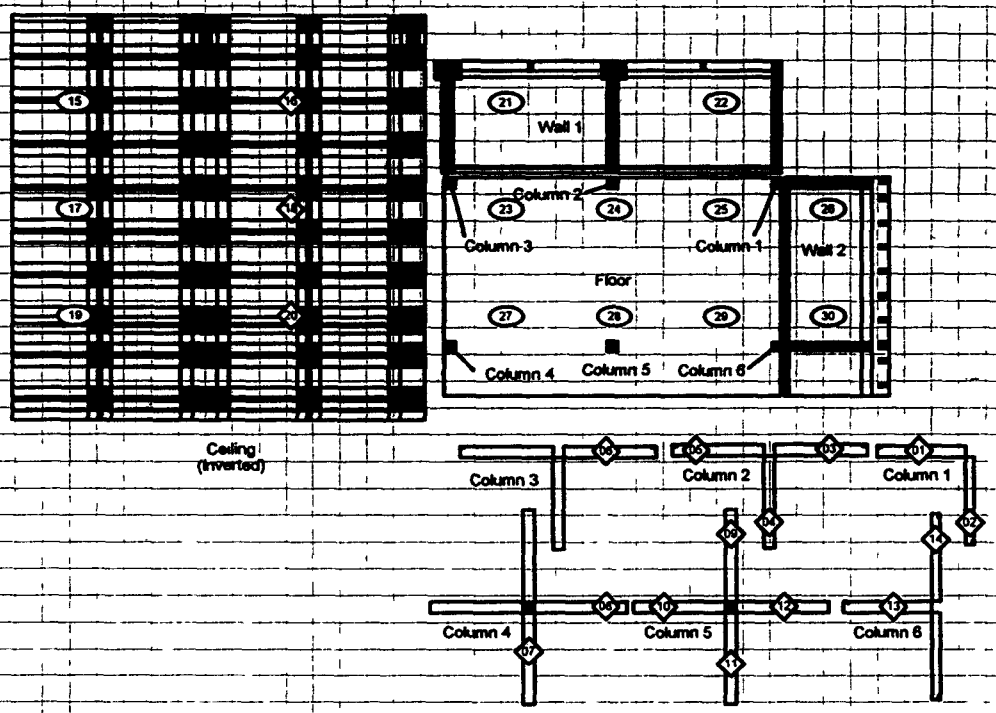


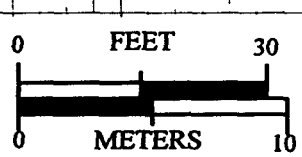
RADIOLOGICAL CLOSEOUT SURVEY FOR THE 779 CLUSTER

Survey Area: G **Survey Unit:** 77947 **Classification:** 1
Building: 779
Survey Unit Description. B779 First Floor Main Bldg Rooms 140, 140A, 140B, 141, 141A, 141B & 141C

Total Floor Area: 101 sq m **Total Area.** 365 sq. m **Grid Size** 4.0 m x 4 0 m

SURVEY UNIT 77947 - MAP 1 OF 1





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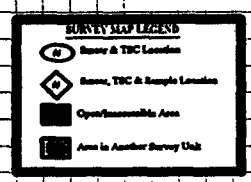
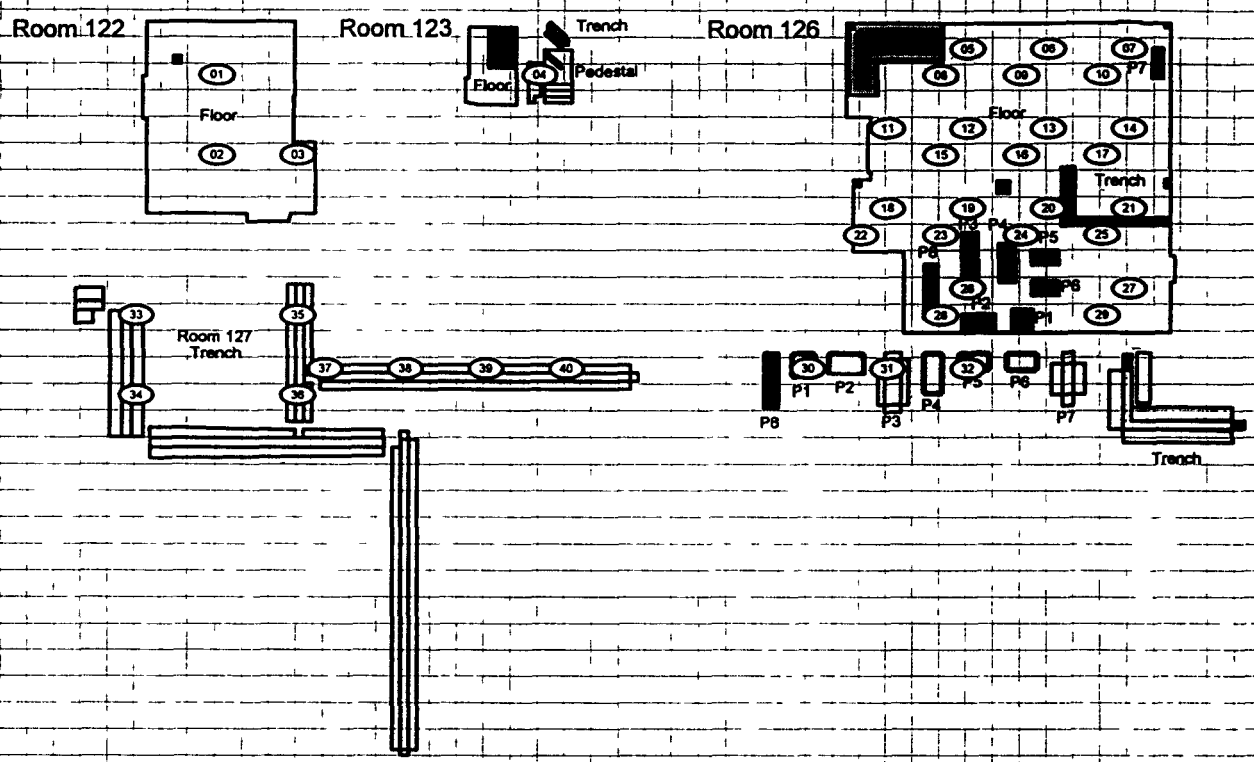


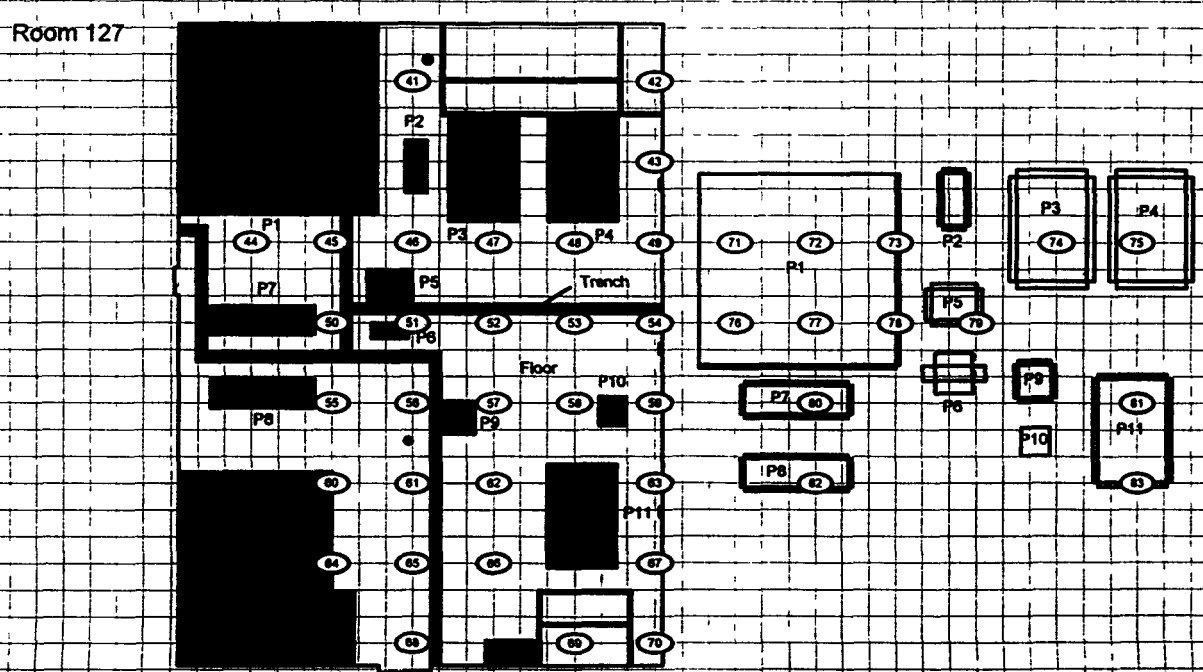
RADIOLOGICAL CLOSEOUT SURVEY FOR THE 779 CLUSTER

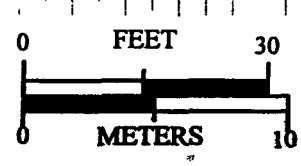
Survey Area. G **Survey Unit: 77948** **Classification. 1**
Building 779
Survey Unit Description **B779 First Floor Main Bldg Rooms 122, 123, 126 & 127 Floors Only**

Total Floor Area 550 sq m **Total Area 550 sq m** **Grid Size: 3 0 m x 3 0 m**

SURVEY UNIT 77948 - MAP 1 OF 1







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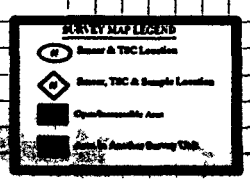

Attachment Z

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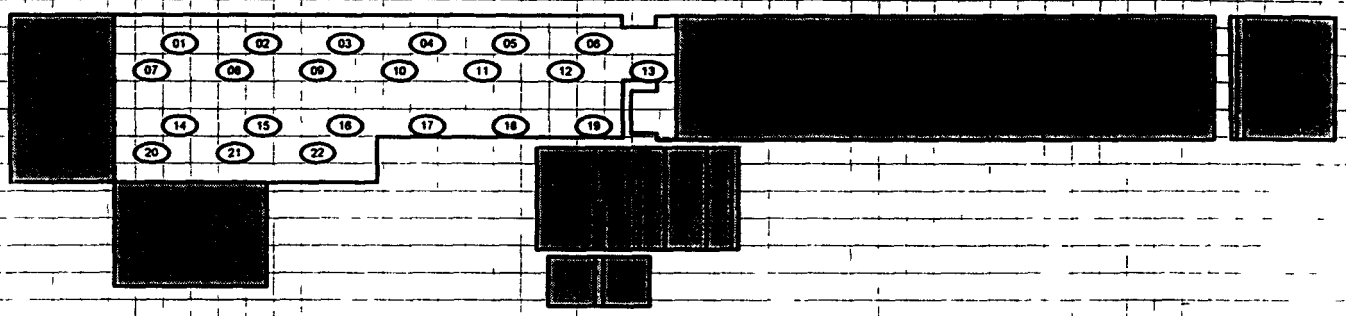
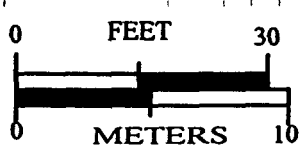
RADIOLOGICAL CLOSEOUT SURVEY FOR THE 779 CLUSTER

Survey Area: I **Survey Unit:** 77950 **Classification:** 1
Building: 779
Survey Unit Description: B779 Dock & Ramp (South Floor Only)
Floor Area 103 sq m **Total Area.** 103 sq m **Grid Size:** 3 0 m x 3.0 m

SURVEY UNIT 77950 - MAP 1 OF 1





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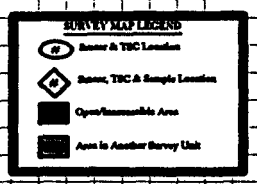

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