

Pfizer Inc  
700 Chesterfield Parkway West  
Chesterfield, MO 63017



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## Global Operations

June 14, 2010

Ms. Patricia J. Pelke  
United States Nuclear Regulatory Commission,  
Region III Materials Licensing Branch  
2443 Warrenville Road, Suite 210  
Lisle, IL 60532-4352

Subject: License Number 24-32439-01 Termination Request

Dear Ms. Pelke:

This letter is to request termination of radioactive materials license number 24-32439-01. Licensed activities have ceased and the facility has undergone decommissioning by a contractor. Decommissioning was conducted under the provisions of the Pfizer radioactive materials license and in accordance with a MARSSIM-based Decommissioning Work Plan. The enclosed Final Status Report provides conclusive evidence that the facility meets the criteria for unrestricted use specified in 10 CFR 20 Subpart E. Dose modeling indicates that the TEDE to an average member of the critical group is  $< 0.015$  mrem/year ( $< 0.06\%$  of the NRC release criterion of 25 mrem/yr) using the results of the survey unit with the highest average activity.

Facility characterization surveys identified only three small, discreet locations on building structural surfaces with residual radioactivity above the ALARA goal of 5,000 dpm/100cm<sup>2</sup> total surface activity. The highest result was 24K dpm/100cm<sup>2</sup> (0.6% of the C-14 default screening value). Because these three areas were a small fraction of the default screening value and removable surface activity met the ALARA goal of 200 dpm/100cm<sup>2</sup>, these areas were not remediated. Two vacuum nozzles had elevated removable activity up to 2K dpm/100cm<sup>2</sup>. The nozzles and readily accessible portions of piping were removed for ALARA purposes. Only one remaining vacuum line exceeds the ALARA goal with 367 dpm/100cm<sup>2</sup> removable surface activity.

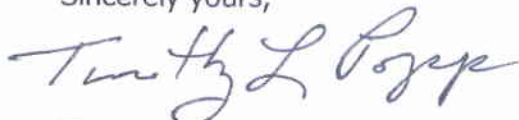
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RECEIVED JUN 15 2010

All radioactive waste generated as a result of remediation for ALARA purposes were packaged as radioactive waste and shipped off-site on June 11, 2010. All licensed radioactive material and all radioactive markings relative to Pfizer operations have been removed from the site. The site will continue to operate under Monsanto NRC license number 24-32488-01.

Based on the Group 2 decommissioning activities specified in Federal Register Notice, Volume 75, Number 74, dated April 19, 2010, Pfizer believes the site qualifies for a categorical exclusion as specified in 10 CFR 51.22(c)(20) because licensed operations were limited to the use C-14, H-3, and small quantities of short-lived radioactive materials; radioactive materials were used in such a manner that a decommissioning plan was not required by 10 CFR 30.36(g)(1); and the facility meets the radiological criteria for unrestricted use in 10 CFR 20.1402 without remediation or analysis.

I appreciate your time and efforts to expedite review of this matter and look forward to hearing back from you. If you have any questions or concerns, please contact me at (269) 833-9364.

Sincerely yours,

A handwritten signature in cursive script that reads "Timothy L. Popp".

Tim Popp  
Radiation Safety Officer

Encl: NRC Form 314  
Final Status Report

**CERTIFICATE OF DISPOSITION OF MATERIALS**

Estimated burden per response to comply with this mandatory collection request: 30 minutes. This submittal is used by NRC as part of the basis for its determination that the facility is released for unrestricted use. Send comments regarding burden estimate to the Records and FOIA/Privacy Services Branch (T-5 F52), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to infocollects@nrc.gov, and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202, (3150-0028), Office of Management and Budget, Washington, DC 20503. If a means used to impose an information collection does not display a currently valid OMB control number, the NRC may not conduct or sponsor, and a person is not required to respond to, the information collection.

LICENSEE NAME AND ADDRESS

**Pharmacia Corporation**  
**Wholly owned subsidiary of Pfizer,**  
**700 Chesterfield Parkway West**

LICENSE NUMBER

**24-32439-01**

DOCKET NUMBER

LICENSE EXPIRATION DATE

**04/30/2014**

- A. LICENSE STATUS (Check the appropriate box)**
- This license has expired.  This license has not yet expired; please terminate it.

**B. DISPOSAL OF RADIOACTIVE MATERIAL**  
*(Check the appropriate boxes and complete as necessary. If additional space is needed, provide attachments)*

The licensee, or any individual executing this certificate on behalf of the licensee, certifies that:

- 1. No radioactive materials have ever been procured or possessed by the licensee under this license.
- 2. All activities authorized by this license have ceased, and all radioactive materials procured and/or possessed by the licensee under this license number cited above have been disposed of in the following manner.
  - a. Transfer of radioactive materials to the licensee listed below:
  - b. Disposal of radioactive materials:
    - 1. Directly by the licensee:
    - 2. By licensed disposal site:
    - 3. By waste contractor:  
**Duratek Services, Inc. 1560 Bear Creek Road, Oakridge, TN 37830 865-481-0222**
  - c. All radioactive materials have been removed such that any remaining residual radioactivity is within the limits of 10 CFR Part 20, Subpart E, and is ALARA.

**C. SURVEYS PERFORMED AND REPORTED**

- 1. A radiation survey was conducted by the licensee. The survey confirms:
  - a. the absence of licensed radioactive materials
  - b. that any remaining residual radioactivity is within the limits of 10 CFR 20, Subpart E, and is ALARA.
- 2. A copy of the radiation survey results:
  - a. is attached; or  b. is not attached (Provide explanation); or  c. was forwarded to NRC on: **06/14/2010**  
Date
- 3. A radiation survey is not required as only sealed sources were ever possessed under this license, and
  - a. The results of the latest leak test are attached; and/or
  - b. No leaking sources have ever been identified.

The person to be contacted regarding the information provided on this form:

NAME <b>Eric Johnson</b>	TITLE <b>Associate Director</b>	TELEPHONE (Include Area Code) <b>(636) 247-2121</b>	E-MAIL ADDRESS <b>ERK.S.S@Pfizer.com</b>
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Mail all future correspondence regarding this license to:

**Eric Johnson, Pfizer Inc. 700 Chesterfield Parkway West, Chesterfield, MO 63017**

**C. CERTIFYING OFFICIAL**

I CERTIFY UNDER PENALTY OF PERJURY THAT THE FOREGOING IS TRUE AND CORRECT

PRINTED NAME AND TITLE <b>Eric Johnson, RNS head</b>	SIGNATURE <i>Eric Johnson</i>	DATE <b>6/14/10</b>
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**WARNING: FALSE STATEMENTS IN THIS CERTIFICATE MAY BE SUBJECT TO CIVIL AND/OR CRIMINAL PENALTIES. NRC REGULATIONS REQUIRE THAT SUBMISSIONS TO THE NRC BE COMPLETE AND ACCURATE IN ALL MATERIAL RESPECT. 18 U.S.C. SECTION 1001 MAKES IT A CRIMINAL OFFENSE TO MAKE A WILLFULLY FALSE STATEMENT OR REPRESENTATION TO ANY DEPARTMENT OR AGENCY OF THE UNITED STATES AS TO ANY MATTER WITHIN ITS JURISDICTION.**

# **Chesterfield Site Decommissioning Final Status Report**

**Pfizer Global Research and Development  
700 Chesterfield Parkway West  
Chesterfield, MO 63017-1732**

**NRC License Number 24-32439-01  
Issued to Pharmacia Corporation  
(Wholly Owned Subsidiary of Pfizer, Inc.)**

**June 14, 2010**



**Prepared by:  
Chase Environmental Group, Inc.  
109 Flint Road  
Oak Ridge, TN 37830  
865-481-8801**

# Chesterfield Site Decommissioning Final Status Report



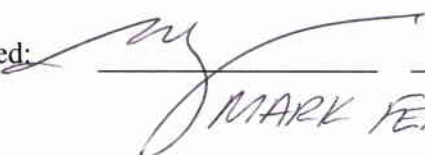
**Pfizer Global Research and Development  
700 Chesterfield Parkway West  
Chesterfield, MO 63017-1732**

**NRC License Number 24-32439-01  
Issued to Pharmacia Corporation  
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**June 14, 2010**

Prepared:  Project Manager Date: 6/11/10  
Ken Gavlik

Technical Review:  Certified Health Physicist Date: 6/11/10  
Patrick McDermott

Approved:  Pfizer Representative Date: 6/14/10  
MARK FERIN

**Prepared by:  
Chase Environmental Group, Inc.  
109 Flint Road  
Oak Ridge, TN 37830  
865-481-8801**

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## APPENDICES

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Appendix B – Building Floor Plans
Appendix C – Instrument Calibration Records
Appendix D – Final Status Survey Location Maps
Appendix E – Building Structural Surfaces Final Status Survey Results
Appendix F – Building Systems Final Status Survey Results
Appendix G – Quality Assurance Survey Results



## ACRONYMS

ALARA	As Low As Reasonably Achievable
CFR	Code of Federal Regulations
DCGL <sub>EMC</sub>	Derived Concentration Guideline Level – Elevated Measurement Comparison
DCGL <sub>W</sub>	Derived Concentration Guideline Level – Wilcoxon Rank Sum
DWP	Decommissioning Work Plan
DQA	Data Quality Assessment
DQO	Data Quality Objective
DSV	Default Screening Value
FSS	Final Status Survey
GSF	Gross Square Feet
HSA	Historical Site Assessment
LBGR	Lower Bound of the Gray Region
MARSSIM	Multi-Agency Radiation Survey and Site Investigation Manual
MDC	Minimum Detectable Concentration
NRC	U.S. Nuclear Regulatory Commission
NIST	National Institute of Standards and Technology
QA	Quality Assurance
QAPP	Quality Assurance Project Plan
RSO	Radiation Safety Officer
TEDE	Total Effective Dose Equivalent

## 1.0 Executive Summary

Pfizer Global Research and Development (Pfizer) has permanently ceased licensed activities at their site located at 700 Chesterfield Parkway West, Chesterfield, MO and desires to terminate Nuclear Regulatory Commission (NRC) Broad Scope Type B radioactive materials license #24-32439-01. The site is also licensed by Monsanto Company AG (Monsanto) under Broad Scope Type B radioactive materials license #24-32488-01. Some areas of the site were used exclusively by Pfizer, some areas were used exclusively by Monsanto, and other areas were used by both Pfizer and Monsanto. Pfizer previously owned the site and leased areas to Monsanto. On April 8, 2010, Pfizer sold the site to Monsanto and now leases back portions of the site. Upon termination of the Pfizer license, Monsanto will assume control of entire site under the Monsanto license 24-32488-01. Monsanto has already accepted sole responsibility for compliance with NRC requirements associated with current and past use of radioactive materials in Building GG floors three through six under license number 24-32488-01 in a letter to the NRC dated April 8, 2010. Monsanto intends to accept sole responsibility in the same manner for the Waste Handling Facility (WHF) in a letter to the NRC dated June 14, 2010.

Site facilities include research laboratories, offices, vivarium space, and other support areas. Radioactive materials used at the site consisted of a variety of radionuclides for research. Primarily these included H-3, C-14, P-32, P-33 and I-125. Based on an analysis of the default screening values (DSVs), quantities used, physical forms, half-lives, and receipt and distribution records, H-3 and C-14 are the only nuclides of concern for decommissioning. Research activities involving radioactive materials ceased and all operational radioactive wastes were shipped off-site in April 2010.

Pfizer procured Chase Environmental Group (Chase) to perform all decommissioning activities. Decommissioning was conducted under the provisions of Pfizer's NRC license and in accordance with a Decommissioning Work Plan (DWP). The DWP was developed using the guidance provided in NUREG 1757, "Consolidated NMSS Decommissioning Guidance"; and NUREG 1575, "Multi-Agency Radiation Survey and Site Investigation Manual" (MARSSIM). Final status surveys (FSS) were designed to implement the protocols and guidance provided in MARSSIM to demonstrate compliance with the DSVs specified in NUREG 1757, Volume 1, Appendix B. These methods ensured technically defensible data were generated to aid in determining whether or not the facility met the release criteria for unrestricted use specified in 10 CFR 20 Subpart E.

Pfizer established conservative ALARA goals for building structural surfaces and systems based on Pfizer operational limits and the release criteria for equipment and materials specified in FC 83-23, "Guidelines for the Decontamination of Facilities and Equipment Prior to Release for Unrestricted Use or Termination of Byproduct, Source, or Special Nuclear Material Licenses." Specifically, the following surface contamination limits were used:

- 5,000 dpm/100cm<sup>2</sup> total surface contamination (averaged over 1m<sup>2</sup>)
- 15,000 dpm/100cm<sup>2</sup> maximum total surface contamination (limited to 100 cm<sup>2</sup>)
- 200 dpm/100cm<sup>2</sup> removable surface contamination per LSC channel

On-site decommissioning activities were performed from February to June 2010. All radioactive waste generated as a result of remediation for ALARA purposes were packaged as radioactive waste and shipped off-site on June 11, 2010. Facility characterization surveys identified only three small, discreet locations on building structural surfaces with residual radioactivity above the ALARA goal of 5,000 dpm/100cm<sup>2</sup> total surface activity. The highest result was 24K dpm/100cm<sup>2</sup> (0.6% of the C-14 default screening value). Because these three areas were a small fraction of the default screening value and removable surface activity met the ALARA goal of 200 dpm/100cm<sup>2</sup>, these areas were not remediated.

This report presents sufficient data to support the conclusion that the facility meets the NRC release criteria. Final status surveys demonstrate that building structural surfaces and systems included in the scope of this report are orders of magnitude below release criteria and are suitable for unrestricted release. All final status surface contamination measurements were a small fraction of the DSVs. Based on the Building Occupancy Scenario of NRC DandD dose modeling software Version 2.1, **the Total Effective Dose Equivalent (TEDE) to an average member of the critical group is < 0.0149 mrem/year (< 0.06% of the release criterion of 25 mrem/yr)** using the results of the survey unit with the highest average activity.

## 2.0 Site Descriptions and History

### 2.1 Historical Site Assessment

Chase performed the Historical Site Assessment (HSA) in early December 2009. The purpose of the historical site assessment was to determine the current status of the facility including potential, likely, or known sources of radioactive contamination by gathering data from various sources. This data included physical characteristics and location of the site as well as information found in site operating records, including radiological surveys, and operational history obtained from personnel interviews. The records review included: radioactive materials licenses, license applications, amendment requests, meeting minutes, radiological surveys (routine monthly, quarterly and closeouts), radiological survey audits, radionuclide receipt and distribution records, incident reports, facility renovation records, blueprints, plans, and design specifications. Personnel interviews included radiation safety, maintenance, operations, and facilities personnel. The results of the HSA are summarized below with updates regarding changes in ownership.

## 2.2 Ownership

The site was originally owned by Monsanto in 1983. Monsanto entered into a merger in 2000 and changed their name to Pharmacia Corporation. The GG Building continued to be operated primarily by the agricultural business unit named Monsanto AG, a spinoff of Pharmacia in November 2001, while Pharmacia primarily occupied the AA and BB Buildings. In 2003, Pharmacia was acquired by and became a wholly-owned subsidiary of Pfizer Corporation. In 2004, Pfizer obtained an NRC Broad Scope Type B license at the site. Pfizer built the CC Building in 2008. On April 8, 2010, Pfizer sold the site to Monsanto and now leases portions of the site.

Some areas of the site were used exclusively by Pfizer, some areas were used exclusively by Monsanto, and other areas were used by both Pfizer and Monsanto. An agreement was made between Pfizer and Monsanto regarding decommissioning responsibilities. Pfizer's areas of responsibility are included in this report. Monsanto has decommissioning responsibility for any impacted areas not included in this report.

Pfizer occupied AA, BB, CC and some areas of the GG building. Monsanto did not occupy CC building at any point, but did receive radioactive materials at the CC building shipping/receiving area. Pfizer and Monsanto shared the WHF. After Pfizer's waste was shipped from the WHF, Pfizer conducted a close out survey to establish the baseline radiological conditions of the facility prior to turning the WHF over to Monsanto for exclusive control under the Monsanto license.

## 2.3 Potential Contaminants

Potential contaminants were determined from license files, including survey and materials receipt records, personnel interviews of historical operations for Pfizer License Number 24-32439-01 and Monsanto/Pharmacia License Number 24-01113-03.

Table 2-1 lists the nuclides used at the facility. This list was compiled through review of radionuclide receipt and distribution records, radioactive waste records, audit and survey records, and interviews with facility personnel.

**Table 2-1 Radionuclides Used**

<b>Nuclide</b>	<b>Half Life (years)</b>	<b>Dispersible Form?</b>	<b>Half Life &gt;120 days?</b>
Am-241	432.2 y	NO	YES
C-14	5730 y	YES	YES
Ca-45	165 d	YES	YES
Ce-144	284.3 d	NO	YES
Cl-36	301,000 y	YES	YES
Cr-51	27.8 d	YES	NO
Cs-137	30.23 y	NO	YES
Fe-55	2.7 y	NO	YES

Nuclide	Half Life (years)	Dispersible Form?	Half Life >120 days?
H-3	12.3 y	YES	YES
I-125	60.2 d	YES	NO
Na-22	2.62 y	YES	YES
Ni-63	100.1 y	NO	YES
P-32	14.3 d	YES	NO
P-33	24.4 d	YES	NO
S-35	87.9 d	YES	NO

All short-lived nuclides ( $t_{1/2} < 120$  days) were eliminated from consideration as nuclides of concern based on calculations of the potential residual activity that could remain as a result of their usage. All sealed sources were eliminated from consideration because there was never any indication of leakage. After considering quantities of radionuclides used, the locations of use, and the impact of radioactive decay, the nuclides of concern are C-14 and H-3.<sup>1</sup>

The Gammacell 40 irradiator was shipped from the site on 2/23/2010. Other sealed sources used at the site included those found in analytical instruments. The activities of these sources are less than that required for periodic leak testing. These instruments, along with the sources, were relocated to other Pfizer licensed facilities or disposed of during the decommissioning process.

## 2.4 License History

Radioactive materials license files were reviewed to identify historical operations, nuclides used and quantities used. Essentially, licensed operations for research and development did not change much over the history of the license. Amendments typically made minor administrative changes and minor changes in authorized materials and quantities. Much of the license history dealt with allowable quantities, usage, RSO changes and facility additions and releases. Because the facility was used for Research and Development as defined in 10CFR30.4, radioactive materials receipt and use records offered the most insight regarding the potential nuclides of concern and quantities used. Current and previous employees having knowledge of facility historical operations were interviewed.

### Pfizer License Number 24-32439-01

Pfizer commenced licensed activities under NRC Broad Scope Type B license #24-32439 in 2004. The license is currently on Amendment 7, issued March 29, 2010 with an

<sup>1</sup> Cl-36 and Na-22 were used in very small quantities compared to C-14 in Room AA422. After their usage in 2004, extensive closeout surveys were performed, demonstrating that there was no detectable residual radioactivity. These nuclides were not considered separately because, even if they were present, they would be detected and maintained at a small fraction of their screening values using survey protocols and ALARA goals designed for C-14 (i.e., by applying C-14 detection efficiencies and limiting residual radioactivity to less than FC 83-23 limits).

expiration date of April 30, 2014. Amendment 7 possession limits and authorized uses are summarized in Table 2-2.

**Table 2-2 License 24-32439-01 Possession Limits and Uses**

Isotope	Physical Form	Possession Limit	Authorized Usage
Atomic # 1-83	Any	100 mCi per nuclide, total not to exceed 5 Ci	R&D as defined 10CFR30.4 including animal studies
Hydrogen-3	Any	25 Ci	R&D as defined 10CFR30.4 including animal studies
Carbon-14	Any	5 Ci	R&D as defined 10CFR30.4 including animal studies
P-32	Any	3 Ci	R&D as defined 10CFR30.4 including animal studies
P-33	Any	2 Ci	R&D as defined 10CFR30.4 including animal studies
S-35	Any	5 Ci	R&D as defined 10CFR30.4 including animal studies
I-125	Any	500 mCi	R&D as defined 10CFR30.4 including animal studies
Ni-63	Foils or plated sources	No single source to exceed 15mCi, 30 sources total	Gas chromatography sample analysis

Amendments were reviewed to evaluate how operations changed over the years and their relevance to decommissioning. Amendments are described in Table 2-3.

**Table 2-3 License 24-32439-01 Amendments**

Amendment	Date	Description
7	3/29/2010	Removed Gamma Cell and changed RSO.
6	6/25/09	Removed Newstead Avenue site
5	3/17/09	Removed Creve Coeur site
4	1/13/09	Decay in Storage for half-lives < 120 days – removed requirement for holding a minimum of 10 half-lives and added conditions related to Increased Controls
3	7/5/2005	Amended in Entirety
2	4/1/2005	Changed name to Pharmacia LLC, changed wording on reporting of leaking sources.
1	7/12/2004	Changed RSO
Original	4/8/2004	Pharmacia – wholly-owned subsidiary of Pfizer, Inc.

**Monsanto/Pharmacia License 24-01113-03**

The facility was operated under license 24-01113-03 until Pfizer took over operations and was issued license 24-32439-01. At one time, Monsanto maintained three licenses:

- License 24-01113-03 issued to Monsanto Agricultural Company included the Chesterfield site and other agricultural business sites.
- License 24-01113-23 issued to Monsanto Environmental Health Laboratories included research labs at Chesterfield and the Creve Couer site.
- License 24-01113-24 issued to Monsanto Environmental Services included operations at the Chesterfield site Waste handling Facility

Amendment 36 to license 24-0113-03 added operations conducted under licenses 24-01113-23 and 24-01113-24 and concurrently, the NRC terminated those licenses.

Amendments were reviewed to evaluate how operations changed over the years and their relevance to decommissioning. License 24-01113-03 possession limits and uses are listed in Table 2-4.

**Table 2-4 License 24-01113-03 Possession Limits and Uses**

Isotope	Physical Form	Possession Limit	Authorized Usage
Atomic # 1-83	Any	100 mCi per nuclide, total not to exceed 5 Ci	R&D as defined 10CFR30.4 including animal studies
Hydrogen-3	Any	25 Ci	R&D as defined 10CFR30.4 including animal studies
Carbon-14	Any	50 Ci	R&D as defined 10CFR30.4 including animal studies
P-32	Any	3 Ci	R&D as defined 10CFR30.4 including animal studies
P-33	Any	300 mCi	R&D as defined 10CFR30.4 including animal studies
S-35	Any	5 Ci	R&D as defined 10CFR30.4 including animal studies
I-125	Any	200 mCi	R&D as defined 10CFR30.4 including animal studies
Fe-55	Sealed Source	No single to exceed 15 mCi	Gas chromatograph
Ni-63	Foils or plated sources	No single to exceed 15 mCi, 30 sources total	Gas chromatograph sample analysis
Cs-137	Sealed Source	2 sources not to exceed 2100 Ci each	Gammacell 40 irradiator for biological samples and small animals

Amendments were reviewed to evaluate how operations changed over the years and their relevance to decommissioning. Amendments since the addition of the Chesterfield site are described in Table 2-5.

**Table 2-5 License 24-01113-03 Amendments**

Amendment	Date	Description
39	9/17/01	Sealed source inventory, transportation, DIS clarification
38	3/24/2000	Changed RSO
37	10/5/99	Added 893 North Warson Rd, St. Louis as area of usage
36	4/1/99	Corrected administrative errors
36	3/18/99	Terminated licenses 24-01113-14 and 24-01113-25 and consolidated into 24-01113-03
35	11/20/98	Amended in Entirety
34	8/29/97	Amended in Entirety – same possession, lists Monsanto Research Farm, RR1, Box 4 Troy, MO
33	5/28/97	Changed RSC Chairman
32	11/22/95	Added P-32
31	6/6/91	Changed RSO
30	10/5/89	Renewal, Added Ca-45, I-131
29	7/7/87	Deleted condition 24 - notification to States for activities at farms in IL and AL
28	6/4/87	Added condition 24 – letters from States for farm studies in IL and AL
27	3/26/87	Deleted condition 24 for use at a farm in IL
26	11/24/86	Increased C-14 limits at farms for labeled pesticide experiment
25	5/27/86	Name and address changes, DIS of S-35 and approvals for farm usage
24	11/25/85	RSC changes
23	4/12/85	Similar nuclides and possession limits as current List Lindbergh, Elm Point Road St. Charles, Lackland Rd., Chesterfield, MO and Monmouth, IL
22	7/9/84	Added AmBe troxler gauge not to exceed 11 mCi
21	4/11/84	Added farm in Monmouth, IL
20	3/1/84	Added Chesterfield site, WHF has same layout as current

## 2.5 Operational and Closeout Radiological Surveys

During the HSA, the radiological status of the facility was determined by reviewing historical survey records and interviewing Radiation Safety personnel. During operations, facility surfaces were maintained <200 dpm/100cm<sup>2</sup> removable surface contamination. The facility conducted routine periodic surveys, which were performed by researchers and Radiation Safety personnel. Laboratory closeout procedures were used when researchers completed experiments involving radioactive materials. In addition to removable contamination measurements, laboratory closeout procedures involved beta-gamma scan surveys using a pancake GM detector, low energy gamma scans using a low energy gamma scintillator, and gamma dose rate measurements using a



micro-R meter. Any detectable radioactivity was remediated as part of the closeout process.

## **2.6 Previous Decommissioning Activities**

In addition to the two satellite facilities that have been removed from the license as license amendments, three radio-synthesis labs in the BB building were decommissioned by a contractor in February 2006. The three labs, BB415, BB416, and BB516, were surveyed using MARSSIM protocols and were found to meet the specified release criteria. NRC Regulatory Guide 1.86 limits were used for total contamination measurements and a project-specific limit of <180 dpm was used for removable contamination.

Details of the project are described in the report entitled "Pfizer, Inc. Chesterfield, MO Facility Radio-Synthesis Laboratories Decontamination and Decommissioning Final Report." This report provides the data to support that the laboratories would contribute a Total Effective Dose Equivalent (TEDE) <0.24 mrem/yr, which was conservatively based on the Minimum Detectable Concentration (MDC) because the mean was less than the MDC.

These labs were completely gutted to support renovation. Highly contaminated fume hoods and some casework were packaged and disposed as radioactive waste, while everything that met the criteria was released. Vacuum and drain lines were terminated outside the room and capped. Remaining lines were surveyed and found to be below release criteria. The entire ventilation exhaust was removed, including the single roof penetration in the penthouse.

## **3.0 Current/Future Use**

Various areas of the site are occupied by Monsanto and Pfizer. After the Pfizer radioactive materials license is terminated, Monsanto will assume possession of the facility under their broad scope license.

## **4.0 Impacted Building Description**

The site consists of many buildings of varied usage. The site is primarily designated as a Research and Development facility. The facility is separated into eleven buildings. However, only five buildings have a history of radioactive materials usage and were considered impacted for decommissioning purposes. Impacted buildings are presented in Table 4-1.

Table 4-1 Impacted Buildings

Building	Description	Year Built	GSF (ft <sup>2</sup> )
AA	Traditional laboratory spaces and offices.	1984	246,000
BB	Traditional laboratory spaces and offices.	1984	284,000
CC	Traditional laboratory spaces, offices, and vivarium.	2008	322,000
GG	Traditional laboratory spaces, offices, and vivarium.	1983	410,000
WHF	Waste packaging and storage area. Wastes from St. Louis area satellite facilities (Creve Couer and Newstead Avenue) were received and packaged at the WHF.	1983	12,000

#### 4.1 Building AA

Building AA was built in 1984, and housed laboratory rooms for research involving low activity radiotracers. It is a steel beam building with brick and glass exterior. This building was primarily used by Monsanto until Pfizer assumed control of the building in 2003. The second floor was completely renovated in 2004, the fourth floor was completely renovated in 2009, and the east wing of the fifth floor was completely renovated in 2004.

#### 4.2 Building BB

Also built in 1984, Building BB shared similar usage, construction, and operation as Building AA. Prior to the construction of Building CC, radioactive materials were shipped from the BB dock. This dock was surveyed and demolished by Pfizer in 2008. In the basement, there is a small room that was temporarily used for waste staging. This room was controlled by the Pfizer RSO. This building was primarily used by Monsanto until Pfizer assumed control of the building in 2003. The northwest section of the second floor was completely renovated in 2005, the third floor was partially renovated in 2007, and the fourth floor was completely renovated in 2008.

#### 4.3 Building CC

Building CC was constructed in 2008 by Pfizer, and is of similar design to buildings AA and BB. Use of radioactive materials was limited to CC221-1, CC316-2, and CC411. CC008 has a caged area that was used as a staging area for radioactive wastes. The shipping and receiving area received radioactive materials for both Pfizer and Monsanto. A refrigerator was used to stage the materials until they were sent to the labs for use. Monsanto did not occupy any of the space in this building.

#### 4.4 Building GG

Building GG was constructed in 1983 and licensed for the use of radioactive materials by Monsanto in 1984. Since that time, Monsanto has used the building for conducting research on third through sixth floors. Monsanto has already accepted sole responsibility

for compliance with NRC requirements associated with current and past use of radioactive materials in Building GG floors three through six under license number 24-32488-01 in a letter to the NRC dated April 8, 2010. Pfizer occupied the first and second floors.

#### **4.5 Waste Handling Facility (WHF)**

The WHF is a steel beam building with concrete floors, metal roof, some open areas with chain link fencing, and some enclosed areas with concrete walls. Pfizer and Monsanto released the old Monsanto storage area. One storage area had a hood with an exhaust fan on roof and an elevated sump. The sump is believed to have never been used for radioactive materials. There is an enclosed staging area that is locked by the RSO and is rarely used to repackage waste.

Another area is used to store radioactive liquid wastes prior to disposal. Sewer disposal was performed 2-3 times per year under Pfizer control. Monsanto wastes were also disposed at the same time. Each disposal consisted of approximately twenty 5 gallon carboys with C-14 / H-3 and decayed short half-life isotopes. After Pfizer's waste was shipped from the WHF, Pfizer conducted a close out survey to establish the baseline radiological conditions of the facility prior to turning the WHF over to Monsanto for exclusive control under the Monsanto license. Monsanto intends to accept sole responsibility for compliance with NRC requirements associated with current and past use of radioactive materials in the WHF in a letter to the NRC dated June 14, 2010. Therefore, the WHF is not included in this report.

#### **4.6 Vacuum System**

Buildings AA and BB were served by two Nash ring water seal pumps located in the Building BB basement. Building GG was served by two pumps in GG basement (GG309). Building CC was served by a laboratory vacuum system with two pumps in the penthouse. The CC vivarium was serviced by two rotary vane pumps in the interstitial area Room CC010 above the shipping and receiving area. The ring seal pumps used once-through city water.

#### **4.7 Building Drains**

Building drains were discharged to a dilution basin. Prior to combining with the sanitary drains, these liquids were agitated and diluted in the basin. From the sanitary drains, liquids were discharged to the Metropolitan Sewer District MSD pump station. There were common discharges for each building with manhole access outside. Authorized radioactive liquid discharges were only performed at the Waste Handling Facility.

#### **4.8 Building Exhaust Ventilation**

Ventilation systems were separated by building. Building AA has a central exhaust. The exhaust system was converted to a strobic fan system, but still had old exhaust fans for approximately 20 labs. Building BB was fully converted to the strobic system for building exhaust. There were still some deactivated fans in place. Building AA and BB fans were in the penthouse, with risers that typically served 4 labs. Some of the original

ductwork in Buildings AA and BB were still in place and were constructed of Galbestos – an asbestos-containing material. Building GG fans were located on the roof. There were a total of about 20 fans that serve the labs, with 5 of them being axial fans that exhaust the growth chambers. Building CC had a total of 8 fans that served the lab areas and 8 fans that served the vivarium. The exhaust risers were separated by laboratory and vivarium areas. The system is a once-through system, with recirculation in some lab areas that contain equipment that generates heat or equipment areas with freezers. There was a separate cage wash exhaust for the vivarium.

## 5.0 Radiological Status

The radiological status of the facility was determined by reviewing historical survey records and interviewing Radiation Safety personnel. Pfizer's policy was to maintain removable surface contamination  $<200$  dpm/100cm<sup>2</sup>. Direct measurements and scan surveys taken during quarterly surveys and closeout procedures demonstrated that the facility was maintained at a very small fraction of the DSV's.

## 6.0 Facility Release Criteria

The unrestricted use radiological release criterion of NRC 10CFR20 Subpart E was used for decommissioning this facility. Specifically, impacted areas of the facility were surveyed in accordance with the guidance contained in MARSSIM to demonstrate compliance with the criteria of 10CFR20.1402, "Radiological Criteria for Unrestricted Use." The criteria is that residual radioactivity results in a TEDE to an average member of the critical group that does not exceed 25 mrem per year, and that the residual radioactivity has been reduced to levels that are as low as reasonably achievable (ALARA).

## 7.0 Nuclides of Concern

After considering the results of the HSA, scoping surveys, quantities of nuclides used, the locations of use and the impact of radioactive decay, the nuclides of concern were H-3 and C-14.

## 8.0 Derived Concentration Guideline Levels

The NRC has published DSVs in NUREG 1757, Volume 1, Appendix B for commonly used radionuclides. DSV's are based on the Building Occupancy scenario together with default parameter values. Screening values were selected such that the 0.9 quantile of projected doses was less than or equal to 25 mrem/y (i.e., when probabilistic dose assessment calculations were performed, there was a 90% probability the calculated dose would be less than 25 mrem/year). Screening values for the nuclides of concern are provided in Table 8-1.

**Table 8-8-1 Default Screening Values for Nuclides of Concern**

Isotope	Half-life	Radiation Type	DandD Result (mrem/yr per dpm/100cm <sup>2</sup> )	Default Screening Value (dpm/100cm <sup>2</sup> )
H-3	12.3 years	Beta	2.02E-07	1.2E+08
C-14	5730 years	Beta	6.80E-06	3.7E+06

The DSV's are the basis for developing the derived concentration guideline levels (DCGL's). The DCGL is the radionuclide specific surface activity concentration that could result in a dose equal to the release criterion. DCGL<sub>w</sub> is the concentration limit if the residual activity is essentially evenly distributed over a large area. For this project, DCGL<sub>w</sub> is equal to the DSV. In the case of non-uniform contamination, MARSSIM allows for evaluation of higher levels of permissible activity over small areas using the DCGL<sub>EMC</sub>. Due to the radiological cleanliness of the facility and Pfizer's conservative ALARA goal, small areas of elevated activity are not considered. Additionally, due to Pfizer's conservative ALARA goal, application of the unity rule for multiple radionuclides is not required to demonstrate compliance with the release criteria. An important assumption of the dose model is that removable contamination is <10% of total contamination. Historical survey results as well as characterization, final status and QA survey results confirm that removable contamination levels are very low and meet this assumption. H-3 cannot be accurately detected directly by field instrumentation due to its low energy. Therefore, H-3 contamination was evaluated by removable contamination measurements only.

## 9.0 ALARA Goals

Pfizer established conservative ALARA goals based on operational limits and the release criteria for equipment and materials specified in FC 83-23, "Guidelines for the Decontamination of Facilities and Equipment Prior to Release for Unrestricted Use or Termination of Byproduct, Source, or Special Nuclear Material Licenses." Specifically, the following surface contamination limits were used:

- 5,000 dpm/100cm<sup>2</sup> total surface contamination (averaged over 1m<sup>2</sup>)
- 15,000 dpm/100cm<sup>2</sup> maximum total surface contamination (limited to 100 cm<sup>2</sup>)
- 200 dpm/100cm<sup>2</sup> removable surface contamination per LSC channel.

Because of the conservatism of the ALARA goals, these criteria were applied to gross beta measurements and the unity rule was not applied. The number of measurements required by MARSSIM to demonstrate compliance with the release criteria was calculated using the DCGL<sub>w</sub> and not the ALARA goal.

## 10.0 ALARA Analysis

Due to the extremely low doses associated with residual radioactivity at the facility, a quantitative ALARA analysis was not required. Default screening values were used to establish DCGLs. Furthermore, Pfizer routinely maintained all laboratory areas of the facility at levels  $<200$  dpm/100cm<sup>2</sup> removable activity.

NUREG 1757, Volume 2, Appendix N states in part: "For ALARA during decommissioning, all licensees should use typical good-practice efforts such as floor and wall washing, removal of readily removable radioactivity in buildings or in soil areas, and other good housekeeping practices. In addition, licensees should provide a description in the Final Status Survey Report (FSSR) of how these practices were employed to achieve the final activity levels. In light of the conservatism in the building surface and surface soil generic screening levels developed by NRC, NRC staff presumes, absent information to the contrary, that licensee's who remediate building surfaces or soil to the generic screening levels do not need to provide analyses to demonstrate that these screening levels are ALARA. In addition, if residual radioactivity cannot be detected, it may be assumed that it has been reduced to levels that are ALARA. Therefore, the licensee may not need to conduct an explicit analysis to meet the ALARA requirement."

## 11.0 Project Management and Organization

Due to the radiological cleanliness of the facility and the relative simplicity of the final status survey design, a complex management organization was not required. Decommissioning operations were conducted under the same Pfizer management structure as current licensed activities. Chase Environmental Group, Inc. (Chase), a licensed decommissioning services provider, was contracted to perform all decommissioning activities. Chase conducted activities under the direction of the Pfizer Radiation Safety Officer. A Pfizer Project Manager was assigned to coordinate activities between Chase and Pfizer management. Decommissioning tasks were performed according to written plans and procedures approved by Pfizer management to ensure they provided adequate worker protection and complied with the facility radioactive materials license.

## 12.0 Training

Pfizer provided all contractors with radiation worker training required by the facility radioactive materials license. Chase provided training for decommissioning-specific programs, plans and procedures that was approved by Pfizer.

## 13.0 Radiation Safety and Health Program

Radiological work was performed according to the Pfizer radioactive materials license Radiation Safety Program under the management and supervision of the facility Radiation Safety Officer.

## 14.0 Environmental Monitoring Program

Due to the simplicity of this project, a project-specific environmental monitoring program was not required.

## 15.0 Radioactive Waste Management

All radioactive waste generated was packaged in DOT-approved shipping containers for shipment to licensed facilities. Some waste required sizing for packaging in the appropriate shipping containers. All waste was stored in approved storage areas at the facility until shipment off-site. Radioactive wastes were subdivided into categories based on types of material and processing methods. Radioactive subdivisions included metals, Dry Active Waste (DAW)/Combustible, asbestos, and mixed wastes. Radioactive waste consisted of two (2) 22"x15"x15" DOT Approved fiberboard boxes. Box one contained 10 pounds of metals with 0.01 $\mu$ Ci's C-14 activity and 0.02  $\mu$ Ci's H-3 activity. Box 2 contained 25 pounds of Dry Active Waste (DAW) with 0.07 $\mu$ Ci's C-14 activity and 0.09  $\mu$ Ci's H-3 activity. All radioactive waste was transported via DOT approved carriers and manifested by qualified waste shippers and/or brokers to Duratek Services, Inc. in Oak Ridge, Tennessee for processing on June 11, 2010.

## 16.0 Quality Assurance Program

The project was conducted under the Chase Corporate Quality Assurance Program. Additional project-specific QA requirements were included in the DWP to meet the guidelines of MARSSIM Section 9.

## 17.0 Survey Instrumentation

### 17.1 Instrument Calibration

Laboratory and portable field instruments were calibrated within the previous year with National Institute of Standards and Technology (NIST) traceable sources of the nuclides of concern. Portable instrument calibration records are included as Appendix C. Liquid scintillation counter records are maintained in Pfizer files.

### 17.2 Functional Checks

Functional checks were performed at least daily when in use. The background, source check, and field measurement count times for radiation detection instrumentation were specified by procedure to ensure measurements were statistically valid. Background readings were taken as part of the daily instrument check and compared with the acceptance range for instrument and site conditions.

### 17.3 Determination of Counting Times and Minimum Detectable Concentrations

Minimum counting times for background determinations and measurement of total and removable contamination were chosen to provide a minimum detectable concentration (MDC) that met the DQOs. MARSSIM equations relative to building surfaces have been

modified to convert to units of dpm/100cm<sup>2</sup>. Count times and scanning rates are determined using the following equations:

### 17.3.1 Static Counting

Static counting Minimum Detectable Concentration at a 95% confidence level is calculated using the following equation, which is an expansion of NUREG 1507, "Minimum Detectable Concentrations with Typical Radiation Survey Instruments for Various Contaminants and Field Conditions", Table 3.1 (Strom & Stansbury, 1992):

$$MDC_{static} = \frac{3 + 3.29 \sqrt{B_r \cdot t_s \cdot \left(1 + \frac{t_s}{t_b}\right)}}{t_s \cdot E_{tot} \cdot \frac{A}{100cm^2}}$$

Where:

- $MDC_{static}$  = minimum detectable concentration (dpm/100cm<sup>2</sup>)
- $B_r$  = background count rate (counts per minute)
- $t_b$  = background count time (minutes)
- $t_s$  = sample count time (minutes)
- $E_{tot}$  = total detector efficiency for radionuclide emission of interest (cpm/dpm)
- $A$  = detector probe area (cm<sup>2</sup>)

A typical static MDC calculation for the Ludlum Model 43-37 gas flow proportional detector is shown below:

$$MDC_{STATIC} = \frac{3 + 3.29 \sqrt{(1000)(.1) \left(1 + \frac{0.1}{1}\right)}}{(0.1)(0.13) \frac{582}{100}} = 496 \text{ dpm/100cm}^2$$

### 17.3.2 Ratemeter Scanning

Scanning Minimum Detectable Concentration at a 95% confidence level is calculated using the following equation, which is a combination of MARSSIM equations 6-8, 6-9, and 6-10:

$$MDC_{scan} = \frac{d' \sqrt{b_i} \left(\frac{60}{i}\right)}{\sqrt{p} \cdot E_{tot} \cdot \frac{A}{100cm^2}}$$



Where:

- $MDC_{scan}$  = minimum detectable concentration (dpm/100 cm<sup>2</sup>)  
 $d'$  = desired performance variable (1.38)  
 $b_i$  = background counts during the residence interval (counts)  
 $i$  = residence interval (seconds)  
 $p$  = surveyor efficiency (0.5)  
 $E_{tot}$  = total detector efficiency for radionuclide emission of interest (cpm/dpm)  
 $A$  = detector probe area (cm<sup>2</sup>)

A typical  $MDC_{SCAN}$  calculation for the Ludlum 43-37 gas flow proportional detector is shown below:

$$i = 13.3 \text{ cm} \cdot \frac{\text{inch}}{2.54 \text{ cm}} \cdot \frac{\text{sec}}{80 \text{ inch}} = 0.065 \text{ sec}$$

$$b_i = 0.065 \text{ sec} \cdot \frac{1000 \text{ counts}}{\text{minute}} \cdot \frac{\text{minute}}{60 \text{ sec}} = 1.08 \text{ counts}$$

$$MDC_{SCAN} = \frac{1.38 \sqrt{1.08} \left( \frac{60}{0.065} \right)}{(\sqrt{0.5})(0.13) \left( \frac{582}{100} \right)} = 2474 \text{ dpm/100cm}^2$$

### 17.3.3 Smear Counting

Smear counting Minimum Detectable Concentration at a 95% confidence level is calculated using the following equation, which is NUREG 1507, "Minimum Detectable Concentrations with Typical Radiation Survey Instruments for Various Contaminants and Field Conditions", Table 3.1 (Strom & Stansbury, 1992):

$$MDC_{smear} = \frac{3 + 3.29 \sqrt{B_r \cdot t_s \cdot \left(1 + \frac{t_s}{t_b}\right)}}{t_s \cdot E}$$

Where:

- $MDC_{smear}$  = minimum detectable concentration level (dpm/smear)  
 $B_r$  = background count rate (counts per minute)  
 $t_b$  = background count time (minutes)  
 $t_s$  = sample count time (minutes)  
 $E$  = instrument efficiency for radionuclide emission of interest (cpm/dpm)

Typical MDC calculations for H-3 and C-14 are shown below.

$${}^3\text{H MDC}_{\text{SMEAR}} = \frac{3 + 3.29 \sqrt{(25)(1) \left(1 + \frac{1}{1}\right)}}{(1)(0.60)} = 44 \text{ dpm}$$

$${}^{14}\text{C MDC}_{\text{SMEAR}} = \frac{3 + 3.29 \sqrt{(15)(1) \left(1 + \frac{1}{1}\right)}}{(1)(0.80)} = 26 \text{ dpm}$$

#### 17.4 Instrumentation Specifications

The instrumentation used for facility decommissioning surveys is summarized in the following tables. Table 16-1 lists the standard features of each instrument such as probe size and efficiency. Table 16-2 lists the typical operational parameters such as scan rate, count time, and the associated Minimum Detectable Concentrations (MDC).

**Table 17-1 Instrumentation Specifications**

Detector Model	Detector Type	Detector Width	Detector Area	Meter Model	Window Thickness	Typical 4π Efficiency
Ludlum 43-68	Gas Flow Proportional	8.8 cm	126 cm <sup>2</sup>	Ludlum 2241	0.8 mg/cm <sup>2</sup>	13 % (C-14)
Ludlum 43-37 Floor Monitor	Gas Flow Proportional	13.3 cm	582 cm <sup>2</sup>	Ludlum 2241	0.8 mg/cm <sup>2</sup>	13 % (C-14)
Packard TriCarb	Liquid Scintillation	N/A	N/A	N/A	N/A	60% (H-3) 80% (C-14)

**Table 17-2 Typical Instrument Operating Parameters and Sensitivities**

Measurement Type	Detector Model	Max. Scan Rate <sup>2</sup>	Count Time	Background (cpm)	MDC (dpm/100cm <sup>2</sup> )
Surface Scans	Ludlum 43-68	20 in./sec.	N/A	500	4,958 (C-14)
Surface Scans	Ludlum 43-37	80 in./sec.	N/A	1000	2,474 (C-14)

<sup>2</sup> Maximum scan rates were based on achieving MDC objectives. Actual scan rates were much slower.

Measurement Type	Detector Model	Max. Scan Rate <sup>2</sup>	Count Time	Background (cpm)	MDC (dpm/100cm <sup>2</sup> )
Total Surface Activity	Ludlum 43-68	N/A	6 sec.	500 (60 sec.)	1,673 (C-14)
Total Surface Activity	Ludlum 43-37	N/A	6 sec.	1000 (60 sec.)	496 (C-14)
Removable Activity	Packard TriCarb	N/A	60 sec.	25 (H-3) 15 (C-14)	44 (H-3) 26 (C-14)

### 17.5 Efficiency Determination

The ALARA goals were conservatively based on FC 83-23 criteria in which activities are determined using  $4\pi$  instrument efficiency. MARSSIM protocols for building structures use ISO-7503-1 methodology that takes into account the texture of the surface and the  $2\pi$  detector efficiency. Under MARSSIM, the default surface efficiency for beta emitters with maximum energies less than 400 KeV is conservatively set at 0.25, resulting in a total efficiency of approximately one half of the  $4\pi$  efficiency. To reconcile this incongruity and to aid in data management, the  $4\pi$  calibration efficiency was used to determine field measurement activities. However the calculated dose to demonstrate compliance with the facility release criteria for each survey unit was doubled to correct for the ISO- 7503-1 surface efficiency. This methodology was chosen because:

- Application of the ISO-7503-1 surface efficiency would adversely impact final status survey time and data quality while providing no credible benefit. The impact would be in the form of slower scanning speeds, longer counting times and magnification of the variability of the natural background radioactivity present in some building materials.
- Structures surveyed were primarily sheet metal, plastic, glass, vinyl, sheetrock and finished concrete that have smooth surfaces similar to the electroplated calibration source used to determine the  $4\pi$  instrument efficiency.
- The MARSSIM default surface efficiency is conservatively based on structural surfaces usually encountered in decommissioning projects such as scabbled concrete and not on the structural surfaces usually encountered in a pristine laboratory environment.
- FC 83-23 criteria are not dose-based resulting in extreme conservatism for low energy beta emitters. For example, Co-60 would result in a modeled dose of 17.6 mrem/yr at the FC 83-23 criterion of 5,000 dpm/100 cm<sup>2</sup> (2.6E6 dpm/100cm<sup>2</sup> C-14 would be required to achieve the same dose).
- NUREG 1507 research indicates that ISO-7503-1 surface efficiencies for low energy beta emitters are overly conservative for typical decommissioning conditions and surface efficiencies closer to 0.5 are warranted.<sup>3</sup>

<sup>3</sup> Abelquist, Decommissioning Health Physics, p 228

- The higher efficiencies apply only to the self-imposed ALARA goals that are orders of magnitude less than the DCGL. All final status dose results presented in this report are corrected to account for the ISO-7503-1 methodology.

## 18.0 Data Quality Objectives (DQO)

- Static measurements were taken to achieve an  $MDC_{static}$  of less than the ALARA goal of 5,000 dpm/100cm<sup>2</sup>.
- Scanning was conducted at a rate to achieve an  $MDC_{scan}$  of less than 5,000 dpm/100cm<sup>2</sup>.
- Removable contamination measurements were counted to achieve an  $MDC_{smear}$  of less than 200 dpm/100cm<sup>2</sup> per channel.
- Individual measurements were made to a 95% confidence interval.
- Decision error probability rates were set at 0.05 for both  $\alpha$  and  $\beta$ .
- The null hypothesis ( $H_0$ ) and alternate null hypothesis ( $H_A$ ) are that of NUREG 1505 scenario A:
  - $H_0$  is that the survey unit does not meet the release criteria
  - $H_A$  is that the survey unit meets the release criteria
- Quality assurance surveys were conducted at a rate of 5%.
- Characterization and remedial action support surveys were conducted under the same quality assurance criteria as final status surveys such that the data may be used as final status survey data to the maximum extent possible.

## 19.0 Investigation Levels

Instrument operating parameters and methodologies were established to meet the DQOs. Additionally, investigation levels were developed to verify the assumptions for classifying survey units. If these investigation levels were exceeded, an investigation was performed to verify the initial assumptions behind the classification and determine the appropriate resolution. The established investigation levels are summarized in Table 18-1.

Table -19-1 Survey Investigation Levels<sup>4</sup>

Survey Unit Classification	Flag Direct Measurement or Sample Result When:	Flag Scanning Measurement Result When:	Flag Removable Measurement Result When:
All	>5,000 dpm/100cm <sup>2</sup>	>5,000 dpm/100cm <sup>2</sup>	> 200 dpm/100cm <sup>2</sup> per channel

<sup>4</sup> Investigation levels were selected to be the same as the ALARA goals. See Item 8.0



## 20.0 Area Classifications

Based on the results of the historical site assessment and previous survey results, facility areas were classified as impacted or non-impacted. All indoor impacted areas were classified as Class 3.

### 20.1 Non-Impacted Area

Non-impacted areas were areas without residual radioactivity from licensed activities and were not surveyed during final status surveys. The following areas were classified as non-impacted:

- Structural surfaces above a two meter height.
- Building exterior surfaces; however the roof was included as an impacted area
- Surface and subsurface soils of outside grounds
- Internal surfaces of positively pressurized systems
- Building elevations with no history of radioactive materials usage

Based on historical operations, a potential existed for residual contamination from spills or tracking on surfaces less than two meters in height. Thorough surveys of building and impacted area entrances/exits and ventilation exhausts were conducted during characterization to provide adequate assurance that any residual contamination was contained within the building structure. These surveys were performed to verify the non-impacted classification of outside areas.

### 20.2 Impacted Areas

Impacted areas were those areas that had potential residual radioactivity from licensed activities. Impacted areas are subdivided into Class 1, Class 2 or Class 3 areas. Class 1 areas have the greatest potential for contamination and therefore receive the highest degree of survey effort for the final status survey using a graded approach, followed by Class 2, and then by Class 3. Impacted sub-classifications are defined as follows:

#### 20.2.1 Class 1 Area

Areas with the highest potential for contamination, and meet the following criteria: (1) impacted; (2) potential for delivering a dose above the release criterion; (3) potential for small areas of elevated activity; and (4) insufficient evidence to support classification as Class 2 or Class 3.

There are no Class 1 areas.

#### 20.2.2 Class 2 Area

Areas that meet the following criteria: (1) impacted; (2) low potential for delivering a dose above the release criterion; and (3) little or no potential for small areas of elevated activity.

There are no Class 2 areas.

### 20.2.3 Class 3 Area

Areas that meet the following criteria: (1) impacted; (2) little or no potential for delivering a dose above the release criterion; and (3) little or no potential for small areas of elevated activity.

All impacted areas are classified as Class 3.

The radiological status of the facility was determined by reviewing historical survey records, interviewing Radiation Safety personnel and performing scoping surveys. The facility was maintained  $< 200$  dpm/100cm<sup>2</sup> removable surface contamination. Direct measurements taken during routine surveys and closeout procedures demonstrate that the facility was maintained at a very small fraction of the default screening values.

## 20.3 Survey Units

A survey unit is a geographical area of specified size and shape for which a separate decision is made whether or not that area meets the release criteria. A survey unit is normally a portion of a building or site that is surveyed, evaluated, and released as a single unit. For the purposes of this project, areas of similar construction and composition were grouped together as survey units and tested individually against the DCGLs and the null hypothesis to show compliance with the release criteria. Survey units were homogeneous in construction, contamination potential, and contamination distribution.

The number of discrete sampling locations needed to determine if a uniform level of residual radioactivity exists within a survey unit does not depend on the survey unit size. However, the sampling density should reflect the potential for small elevated areas of residual radioactivity. Survey units were sized according to the potential for small elevated areas of residual radioactivity. Recommended maximum survey unit sizes for building structures, based on floor area, is Class 1: up to 100 m<sup>2</sup>, Class 2: 100 m<sup>2</sup> to 1000 m<sup>2</sup> and Class 3: no limit.

### Survey Unit Numbering Protocol

Each survey unit is assigned a unique number consisting of the building number followed by a dash and a four digit identifier. The four digit identifier consists of one digit for the elevation, one digit for the classification, and two digits as a numerical identifier in the event the first 2 digits are the same for two or more survey units using the format below:

Building Number – Elevation/Classification/Numerical Identifier

The default numeric identifier is 01

Elevations:

1=1<sup>st</sup> Floor, 2=2<sup>nd</sup> Floor, 3=3<sup>rd</sup> Floor, B=Basement, P=Penthouse, R=Roof

Building systems survey units were arranged by building elevation and system type. There are three types of systems – ventilation, vacuum drain. Each system survey unit encompasses all of a certain type within the building. The building system survey units are presented in

**Table 20-2.**

Systems Components:

DR – Drain

VA – Vacuum

VE - Ventilation

Example:

AA-2301 is Building AA, second floor, class 3

AA-1DR1 is Building AA, first floor drains

For consistency and convenience of data management, all areas of the same classification within a building elevation and wing were grouped as a single survey unit with the following exceptions: survey unit AA-4303 was modified to facilitate mapping labs AA415 and AA416, and survey units AA-4303, AA-4DR3, AA-4VA3, AA-4VE3 were modified to accommodate the Pfizer move schedule.

Survey unit classifications and designations were determined from the HSA and are listed in tabular format in Table 20-1 and 20-2. Survey unit designations were separated by wings for buildings AA and BB. Survey unit designations were separated by elevations for building GG. For building CC, because of its recent construction and limited usage, the survey unit designations were separated by rooms. Survey unit designations are presented graphically on the building floor plans presented in Appendix B.

**Table 20-1 Building Structural Survey Units**

Building	Elevation	Survey Unit Numbers
AA	Basement	B301, B302
	First	1301, 1302
	Second	2301, 2302
	Third	3301, 3302
	Fourth	4301, 4302, 4303
	Fifth	5301, 5302
	Penthouse	P301,P302
	Roof	R301



Building	Elevation	Survey Unit Numbers
BB	Basement	B301, B302
	First	1301, 1302
	First	1QA1, 1QA2
	Second	2301, 2302
	Third	3301, 3302
	Fourth	4301, 4302
	Fifth	5301, 5302
	Penthouse	P301, P302
	Roof	R301
CC	Basement	B301, B302
	Second	2301, 2302
	Third	3301
	Fourth	4301
GG	First	1301
	First	QA01
	Second	2301, 2302, 2303, 2304
	Roof	R301

Table 20-2 Building Systems Survey Units

Building	Elevation	Drain	Vacuum	Ventilation
AA	Basement	BDR1, BDR2	NONE	BVE1
	First	1DR1, 1DR2	1VA1	1VE1, 1VE2
	Second	2DR1, 2DR2	2VA1, 2VA2	2VE1, 2VE2
	Third	3DR1, 3DR2	3VA1, 3VA2	3VE1, 3VE2
	Fourth	4DR1, 4DR2, 4DR3	4VA1, 4VA2, 4VA3	4VE1, 4VE2, 4VE3
	Fifth	5DR1, 5DR2	5VA1, 5VA2	5VE1, 5VE2
	Penthouse	PDR1, PDR2	NONE	PVE1, PVE2
	Roof	RDR1	NONE	RVE1
BB	Basement	BDR1, BDR2	BVA1	NONE
	First	1DR1, 1DR2	1VA1	1VE1, 1VE2
	Second	2DR1, 2DR2	2VA1, 2VA2	2VE1, 2VE2
	Third	3DR1, 3DR2	3VA1, 3VA2	3VE1, 3VE2
	Fourth	4DR1, 4DR2	4VA1, 4VA2	4VE1, 4VE2
	Fifth	5DR1, 5DR2	5VA1, 5VA2	5VE1, 5VE2
	Penthouse	PDR1, PDR2	NONE	PVE1, PVE2
	Roof	RDR1	NONE	RVE1

Building	Elevation	Drain	Vacuum	Ventilation
CC	Basement	BDR1, BDR2	NONE	BVE1, BVE2
	Second	2DR1	2VA1	2VE1
	Third	3DR1	3VA1	3VE1
	Fourth	4DR1	4VA1	4VE1
	Penthouse	NONE	PVA1	NONE
CS	Drain Basin	DR01	NONE	NONE
GG	First	1DR1	1VA1	1VE1
	Second	DR01	VA01	VE01
	Second	2DR4	2VA4	2VE4
	Roof	RDR1	NONE	RVE1

## 21.0 Characterization Surveys

The survey protocol for building surfaces consisted of performing the scanning portion of the final status survey protocol, with judgmental smears and static measurements on areas of highest probability for residual radioactivity. Judgmental static measurements and smears were also taken on vertical surfaces as part of the Class 3 final status survey protocols described in section 23.3.5.

The purpose of scanning was to identify locations of elevated activity. The minimum scan percentages are presented in section 23.2. Scanning was performed by moving the probe over surfaces at a distance of approximately one centimeter and at a rate less than the maximum allowable scan rate necessary to achieve DQOs. Where elevated activity was identified, the surveyor stopped and re-scanned the suspect area at a slower rate to determine if the elevated activity was sustained. Where a sustained increase in the audible response was identified, a static measurement and smear were taken at the location of highest activity and the boundary of the elevated area was marked to aid in locating the area for remedial actions if determined to be necessary. Each location of elevated activity was then reviewed. Based on contamination potential, at least ten additional locations in each survey unit were judgmentally selected to perform a static measurement and removable contamination measurement.

The survey protocol for building system surveys consisted of performing removable contamination measurements of accessible internal surfaces of ventilation, vacuum, and drain systems.

If the initial characterization survey results indicated that contamination was not present in excess of the ALARA goals, then data from the survey was used as part of the final status survey. For areas that were partially contaminated, the characterization survey data was used as part of the final status survey provided that 1) the data used was only from areas with contamination levels below the ALARA goals, and 2) decontamination work was controlled such that areas did not become cross-contaminated.

Facility characterization surveys identified only three small, discreet locations on building structural surfaces with residual radioactivity above the ALARA goal of 5,000 dpm/100cm<sup>2</sup> total surface activity. The highest result was 24K dpm/100cm<sup>2</sup> (0.6% of the C-14 default screening value). Because these three areas were a small fraction of the default screening value and removable surface activity met the ALARA goal of 200 dpm/100cm<sup>2</sup>, these areas were not remediated.

Facility characterization surveys identified two (2) discreet locations in building systems with residual radioactivity above ALARA goals, but at a small fraction of the DSV. The highest result was 2008 gross dpm/100cm<sup>2</sup> H-3 (<0.1% of the DSV) and 639 gross dpm/100cm<sup>2</sup> C-14 (<0.1% of the DSV).

## 22.0 Remediation

### 22.1 Remediation Activities

No remediation of structural surfaces was required.

Remediation methods for systems included removal of vacuum nozzles and piping by invasive means. All remediation activities were conducted to control the spread of contamination and to maintain personnel exposures ALARA. Remediation performed on systems is summarized in Table 20-1.

Table 22-1 Remediated Systems

Survey Unit	Location	Maximum Activity (dpm/100cm <sup>2</sup> )		Remediation Method <sup>5</sup>	Post-Remediation Maximum Activity (dpm/100cm <sup>2</sup> ) <sup>6</sup>	
		Total	Removable (cpm)		Total	Removable cpm
AA-3VA2	Vacuum	N/A	310- <sup>3</sup> H 639- <sup>14</sup> C	Removed Valve and 1 foot of line	N/A	83- <sup>3</sup> H 367- <sup>14</sup> C
AA-3VA2	Vacuum	N/A	2008- <sup>3</sup> H 31- <sup>14</sup> C	Removed Valve and 1 foot of line	N/A	26- <sup>3</sup> H 8- <sup>14</sup> C

### 22.2 Remedial Action Surveys

Remedial action surveys were conducted in support of remediation activities to help determine when an area was ready for a final status survey and to provide updated estimates for final status survey planning. Remedial action surveys served to monitor the

<sup>5</sup> Vacuum nozzles and piping were remediated until inaccessible. Further remediation would have required demolition of fumehood and walls to gain access. Pfizer determined to leave in place because residual radioactivity was at a small fraction of the DSV

<sup>6</sup> Post remediation results are for the remaining portions of piping.

effectiveness of decontamination efforts and to ensure that surrounding areas were not cross-contaminated from remediation actions.

Remedial action surveys consisted of scan surveys and removable contamination measurements. These were conducted following remediation activities to establish the success or failure of decontamination efforts. Results of the survey were the decision basis for continued remediation or conduct of final status surveys. Remedial action surveys were designed to meet the objectives of the final status surveys and, to the extent allowed by MARSSIM, the results of the remedial action surveys were used to supplement the final status survey.

### 23.0 Design and Performance of Final Status Surveys

Final status surveys were performed using the Data Quality Objective (DQO) process to demonstrate that residual radioactivity in each survey unit satisfied the predetermined criteria for release for unrestricted use. Final status surveys were conducted by performing the appropriate combination of scan surveys, total activity measurements and removable activity measurements as discussed further in this section. All final status surveys were performed according to written instructions. Survey data were documented on survey maps and/or associated data information sheets.

#### 23.1 Background Determination

The use of reference background areas or paired background comparisons was not necessary. Material and ambient background values were not significant in comparison to the DCGLs or ALARA goals. For direct measurements, an ambient background was determined for each survey, was subtracted from gross measurements, and was used to calculate the actual survey MDCs and associated count errors. Material-specific background determinations were not performed. Background was not subtracted from removable activity measurements and all results are reported in  $\text{dpm}/100\text{cm}^2$ .

#### 23.2 Surface Scans

Scanning was used to identify locations within the survey unit that exceed the investigation level. Table 23-1 summarizes the minimum scan percentage of accessible building structural surfaces based on classification.

**Table 23-1 Scan Survey Coverage by Classification**

Structure	Class 3
Floors	20%
Fume Hoods	100%
Other Structures	10%

For surfaces that received less than 100% scan survey, the surfaces scanned were those with the highest potential to contain residual radioactivity at the discretion of the surveyor. The percentage of survey area scanned was, in some cases, increased based on suspected or actual elevated activity. If elevated activity was identified in excess of the ALARA goals, additional scans of surrounding surfaces were performed and an evaluation was made regarding the decision to upgrade. Three (3) discreet survey locations identified during scans indicated activity above the ALARA goals. No survey results indicated activity above the DCGL or the ALARA goals. Floor areas near building entrances and exits, and carpeted surfaces that could cause low levels of residual radioactivity to build up over time due to tracking, received a 100% scan survey regardless of the area classification.

If elevated activity was detected during the scan surveys, then the location was marked and total and removable surface activity measurements were taken to quantify the activity. However, these total surface activity measurements were in addition to the static measurements required for the Sign test.

### 23.3 Total Surface Activity Measurements

Direct surveys (static measurements) for total surface activity were taken on building surfaces in impacted areas utilizing instrumentation of the best geometry based on the surface at the survey location. Additionally, locations of elevated activity identified and marked during the scan survey received direct survey measurements. Static measurements were taken in impacted areas at each identified sample location. Scaler count times were determined to achieve the detection sensitivities stated in the DQOs. Field measurements were converted to activity concentrations using the following equation:

$$\text{Activity (dpm/100cm}^2\text{)} = \frac{cpm_{\text{sample}} - cpm_{\text{background}}}{E_{\text{total}} \cdot \frac{A}{100\text{cm}^2}}$$

#### 23.3.1 Determining the Number of Samples

The minimum number of samples required for the Sign Test was calculated using equations in Section 5 of MARSSIM. A conservative estimate of the standard deviation of total surface activity measurements (2,500 dpm/100cm<sup>2</sup>) was used. The LBGR was set at one half of the DCGL. The calculations performed to determine the required numbers of samples are provided below.

#### 23.3.2 Determination of the Relative Shift

The number of required samples depends on the ratio involving the activity level to be measured relative to the variability in the concentration. The ratio to be used is called the Relative Shift,  $\Delta/\sigma_s$ , and is defined in MARSSIM as:

$$\Delta/\sigma_s = \frac{DCGL - LBGR}{\sigma_s}$$

Where:

- DCGL = derived concentration guideline level (dpm/100cm<sup>2</sup>)  
LBGR = concentration at the lower bound of the gray region. The LBGR is the average concentration to which the survey unit should be cleaned in order to have an acceptable probability of passing the test (dpm/100cm<sup>2</sup>)  
 $\sigma_s$  = an estimate of the standard deviation of the residual radioactivity in the survey unit (dpm/100cm<sup>2</sup>)

The actual calculation is provided below:

$$\Delta/\sigma_s = \frac{3.7E6 - 1.85E6}{2500} = 740$$

Since MARRSIM Table 5.5 does not include relative shifts above 3 and the number of samples required decreases with an increasing relative shift, the relative shift was conservatively set at 3.

### 23.3.3 Determination of Acceptable Decision Errors

A decision error is the probability of making an error in the decision on a survey unit by passing a unit that should fail ( $\alpha$  decision error) or failing a unit that should pass ( $\beta$  decision error). MARSSIM uses the terminology  $\alpha$  and  $\beta$  decision errors; this is the same as the more common terminology of Type I and Type II errors, respectively. The decision errors are 0.05 for Type I errors and 0.05 for Type II errors.

### 23.3.4 Determination of Number of Data Points (Sign Test)

The number of direct measurements for a particular survey unit, employing the Sign Test, is determined from MARSSIM Table 5.5, which is based on the following equation (MARSSIM equation 5-2):

$$N = \frac{(Z_{1-\alpha} + Z_{1-\beta})^2}{4(\text{Sign}P - 0.5)^2}$$

Where:

- N = number of samples needed in the survey unit  
 $Z_{1-\alpha}$  = percentile represented by the decision error  $\alpha$   
 $Z_{1-\beta}$  = percentile represented by the decision error  $\beta$

*SignP* = estimated probability that a random measurement will be less than the DCGL when the survey unit median is actually at the LBGR

*Note:* *SignP* is determined from MARSSIM Table 5.4

MARSSIM recommends increasing the calculated number of measurements by 20% to ensure sufficient power of the statistical tests and to allow for possible data losses. MARSSIM Table 5.5 values include an increase of 20% of the calculated value. The approach for this project was to predetermine a number of samples to be applied to all survey units. This approach provides sufficient power for the statistical test while streamlining the survey planning process. The following calculations were made to determine this number:

$$N = \frac{(1.645 + 1.645)^2}{4(0.998650 - 0.5)^2} = 11$$

$Z_{1-\alpha}$  and  $Z_{1-\beta}$  are equal to 1.645 using the error rate of 0.05 from MARSSIM Table 5.2. *SignP* is equal to 0.998650 from MARSSIM Table 5.4. Adding an additional 20% to account for data losses resulted in a value of 14.

Therefore, the determined number of samples per survey unit for the final status surveys for planning purposes was 14.

### 23.3.5 Determination of Sample Locations

Class 3 survey units generally consist of many rooms. Representing each room in a “fold-out” view to show all surfaces is difficult and time-consuming. The process to identify, map and locate measurement coordinates in survey units with many rooms is complicated due to the noncontiguous nature of the survey unit once walls are “folded-out”.

For the reasons above, the MARSSIM sample measurement locations (i.e., random static and wipe measurements) for Class 3 survey units were determined only on horizontal surfaces as determined on floor plans. This protocol increases the sample density on the surfaces with the highest probability for residual contamination (floors, benchtops, fume hood working surfaces, etc.). The appropriate percentage of all survey unit surfaces (including vertical surfaces) was scanned according to the survey unit classification. In laboratory areas, permanent counter tops and other horizontal surfaces that block floor surfaces were included as a replacement to the blocked floor surface. Internal surfaces of permanent furnishings (i.e., drawer or cabinetry interior surfaces) were not included in the systematic measurement location placement. However, these surfaces were included in the scan surveys. Additional total surface activity measurements were collected at each area of elevated activity identified during the scan surveys.

As part of characterization, the survey technician judgmentally selected locations with the highest probability of contamination on vertical surfaces for a static measurement and smear, such as light switches, door knobs, door pulls, push plates, and other locations. These measurements were in addition to and were not included in the statistical analysis of the locations selected by MARSSIM protocols.

Maps were generated of the survey unit horizontal surfaces. Sample locations were determined using computer generated random x and y coordinates for each sample location. Each location was then plotted on the applicable survey map.

Maps of final status survey locations for all survey units are included in Appendix D.

#### 23.4 Removable Contamination Measurements

Removable contamination measurements were collected by wiping an area of approximately 100 cm<sup>2</sup> on structural surfaces and inside building systems. The smears/swabs were counted to achieve the detection sensitivities stated in the DQOs. The liquid scintillation counter (LSC) was setup for dual label counting without background subtraction (dpm) for <sup>3</sup>H and <sup>14</sup>C. Operationally, the ALARA goal of 200 dpm/100 cm<sup>2</sup> was ensured on each LSC channel.

#### 23.5 Surveys of Building Mechanical System Internals

Surveys of various building system components were performed. Survey design for these systems is out of the scope of MARSSIM. For the purposes of identifying potential residual contamination within these systems, a survey protocol was established and is presented in Table 22-2.

Table 23-2 System Survey Coverage

Structure	Coverage
Vacuum Nozzles, Pumps, Accumulators	100%
Fume Hood Vent Ducts and Fans	100%
General Ventilation Exhaust Ducts and Fans	10%
Laboratory Drain Traps, Floor Drains and Laboratory Drain Main Accesses	100%



### 23.6 Data Validation

Field data were reviewed by the Project Manager and validated to ensure:

- Completeness of forms
- Proper types of surveys were performed
- The MDCs for measurements met the established data quality objectives
- Independent calculations were performed on a representative sample of data sheets
- Satisfactory instrument calibrations and daily functionality checks were performed as required

Additionally, all final status survey data were entered into the Final Status Survey Database. This provided the means to sort survey data, verify activity calculations, and to compute the associated MDC and counting errors. Once data entry for a survey unit was complete, a verification report was printed and compared to original data sheets to ensure correct data entry.

### 23.7 Survey Documentation

A survey package was developed for each survey unit containing the following:

- Survey Unit number (e.g., Building and Room Number, System Number, etc.)
- Survey Instruction Sheets
- General survey requirements
- Percentage of surfaces requiring scan surveys
- Number of total and removable contamination measurements required, instrument requirements with associated MDCs, count times and scan rates
- Overview maps detailing survey locations and placement methodology
- Survey Data Sheets
- Any additional specific survey instruction
- Signature of Data Collector and Reviewer

To ensure proper data management and organization, a unique location code system was used so that survey data could be properly entered and organized in the Final Status Survey Database. A breakdown of the location code and specific code components are provided in Table 22-3.

**Table 23-3 Location Code Description**

<p>A unique location code was assigned to each individual survey location to ensure proper data management of the survey results. The following format was used to ensure consistency throughout the final status survey process:</p>																
<p><b>BB-RRRR-SS-M-LLL</b></p>																
<p>Where:</p>																
<p><b>BB:</b></p>	<p>Building Code. This field represents the building number. (2 characters)</p>															
<p><b>RRRR:</b></p>	<p>Survey Unit Number. This is the assigned survey unit number. (4 characters)</p>															
<p><b>SS:</b></p>	<p>Structural Surface Code. This field represents the structural surface such as floor, wall, ceiling, etc. (2 characters)</p> <table style="width: 100%; border: none;"> <tr> <td>B1 = Benchtop</td> <td>F1 = Floor</td> <td>O1 = Other Structures</td> </tr> <tr> <td>D1 = Hood Drain</td> <td>E1 = Fume Hood Vent</td> <td>V1 = Vacuum Nozzle</td> </tr> <tr> <td>D2 = Floor Drain</td> <td>E2 = General Ventilation</td> <td>V2 = Vacuum System</td> </tr> <tr> <td>D3 = Sink Drain</td> <td>E3 = Ventilation</td> <td>Component</td> </tr> <tr> <td>D4 = Other Drains</td> <td>Components</td> <td>W1 = Wall</td> </tr> </table>	B1 = Benchtop	F1 = Floor	O1 = Other Structures	D1 = Hood Drain	E1 = Fume Hood Vent	V1 = Vacuum Nozzle	D2 = Floor Drain	E2 = General Ventilation	V2 = Vacuum System	D3 = Sink Drain	E3 = Ventilation	Component	D4 = Other Drains	Components	W1 = Wall
B1 = Benchtop	F1 = Floor	O1 = Other Structures														
D1 = Hood Drain	E1 = Fume Hood Vent	V1 = Vacuum Nozzle														
D2 = Floor Drain	E2 = General Ventilation	V2 = Vacuum System														
D3 = Sink Drain	E3 = Ventilation	Component														
D4 = Other Drains	Components	W1 = Wall														
<p><b>M:</b></p>	<p>Structural Material Code. This field represents the type of structural material on which a particular measurement is taken. Those materials with a potential to contain naturally-occurring radioactive materials are assigned a code, otherwise a material code of "M" is assigned. (1 character)</p> <table style="width: 100%; border: none;"> <tr> <td>C = Concrete</td> <td>M = Miscellaneous</td> <td>T = Ceramic Tile</td> </tr> </table>	C = Concrete	M = Miscellaneous	T = Ceramic Tile												
C = Concrete	M = Miscellaneous	T = Ceramic Tile														
<p><b>LLL:</b></p>	<p>Numerical Identifier. This field represents the survey location number. The field "001" means survey point location number 1. Numerical identifiers are unique within a survey unit. (3-characters)</p>															

## 24.0 Data Quality Assessment and Interpretation of Survey Results

The statistical guidance contained in Section 8 of MARSSIM was used to determine if areas are acceptable for unrestricted release and whether additional surveys or sample measurements were required.

### 24.1 Preliminary Data Review

A preliminary data review was performed for each survey unit to identify any patterns, relationships or anomalies. Additionally, measurement data were reviewed and compared with the DCGLs and investigation levels to confirm the correct classification of survey units. All calculations of means, standard deviations, minimum and maximum values and comparisons between survey data and investigation levels are presented in the

following tables. Total beta surface activity reports for each survey unit are included as Appendix E. Reports for building systems surveys are presented in Appendix F.

**Table 24-1 Structural Surfaces Total Beta Surface Activity Summary**

Survey Unit	# of Sample Locations	Mean	MDC	Standard Deviation	Min.	Max.	Investigation Level	Any Result Exceeding Investigation Level?
AA-B301	14	314	379	168	-85	608	5,000	NO
AA-B302	14	232	423	131	-21	416	5,000	NO
AA-1301	14	305	347	211	46	749	5,000	NO
AA-1302	14	550	402	731	-245	1,876	5,000	NO
AA-2301	14	557	371	1,140	-181	4,264	5,000	NO
AA-2302	14	94	380	278	-187	645	5,000	NO
AA-3301	14	267	389	382	-259	1,259	5,000	NO
AA-3302	14	34	385	125	-165	224	5,000	NO
AA-4301	14	200	387	212	-59	753	5,000	NO
AA-4302	14	256	387	173	47	659	5,000	NO
AA-4303	14	-296	856	172	-510	44	5,000	NO
AA-5301	14	113	410	243	-141	883	5,000	NO
AA-5302	14	273	375	304	-59	906	5,000	NO
AA-P301	14	381	411	126	117	533	5,000	NO
AA-P302	14	324	411	210	-32	650	5,000	NO
AA-R301	14	829	990	685	0	2,162	5,000	NO
BB-B301	14	158	381	271	-213	533	5,000	NO
BB-B302	14	386	381	212	-128	703	5,000	NO
BB-1301	14	434	779	560	-305	1,635	5,000	NO
BB-1302	14	245	732	520	-166	1,940	5,000	NO
BB-2301	14	633	717	553	-28	2,189	5,000	NO
BB-2302	14	138	660	181	-153	471	5,000	NO
BB-3301	14	160	385	392	-165	1,118	5,000	NO
BB-3302	14	85	396	220	-188	624	5,000	NO
BB-4301	14	61	425	448	-341	1,083	5,000	NO
BB-4302	14	13	412	206	-177	565	5,000	NO
BB-5301	14	178	382	257	-47	788	5,000	NO
BB-5302	14	247	382	289	-12	1,047	5,000	NO
BB-P301	14	317	381	181	21	725	5,000	NO
BB-P302	14	301	381	204	21	917	5,000	NO
BB-R301	14	1,101	990	1,050	-416	3,547	5,000	NO
CC-B301	14	166	380	118	-12	400	5,000	NO
CC-B302	14	99	377	301	-139	1,109	5,000	NO
CC-2301	14	125	336	102	-94	306	5,000	NO

Survey Unit	# of Sample Locations	Mean	MDC	Standard Deviation	Min.	Max.	Investigation Level	Any Result Exceeding Investigation Level?
CC-3301	14	-32	350	77	-153	129	5,000	NO
CC-4301	14	159	328	107	-35	330	5,000	NO
GG-1301	14	548	322	244	32	906	5,000	NO
GG-2301	14	193	1093	304	-270	594	5,000	NO
GG-2302	14	147	1093	271	-270	594	5,000	NO
GG-2303	14	609	1093	458	-54	1,566	5,000	NO
GG-2304	14	831	786	550	55	1,718	5,000	NO
GG-R301	14	1,071	938	517	277	2,189	5,000	NO

Table 24-2 Building Structural Surfaces Removable <sup>3</sup>H Summary

Survey Unit	# of Sample Locations	Mean	Standard Deviation	Min.	Max.	Investigation Level	Any Result Exceeding Investigation Level?
AA-B301	14	26	12	14	61	200	NO
AA-B302	14	19	9	9	34	200	NO
AA-1301	14	20	6	7	30	200	NO
AA-1302	14	20	7	4	29	200	NO
AA-2301	14	16	6	8	27	200	NO
AA-2302	14	17	8	2	27	200	NO
AA-3301	14	20	5	11	30	200	NO
AA-3302	14	15	8	2	29	200	NO
AA-4301	14	21	7	11	34	200	NO
AA-4302	14	18	6	11	29	200	NO
AA-4303	14	18	9	3	36	200	NO
AA-5301	14	19	7	10	32	200	NO
AA-5302	14	20	10	3	37	200	NO
AA-P301	14	15	7	4	27	200	NO
AA-P302	14	14	9	0	31	200	NO
AA-R301	14	19	6	9	27	200	NO
BB-B301	14	17	8	3	31	200	NO
BB-B302	14	18	7	4	30	200	NO
BB-1301	14	15	5	7	24	200	NO
BB-1302	14	18	8	7	31	200	NO
BB-2301	14	19	8	7	34	200	NO
BB-2302	14	14	6	6	24	200	NO

Survey Unit	# of Sample Locations	Mean	Standard Deviation	Min.	Max.	Investigation Level	Any Result Exceeding Investigation Level?
BB-3301	14	17	8	4	32	200	NO
BB-3302	14	17	7	3	27	200	NO
BB-4301	14	15	6	7	30	200	NO
BB-4302	14	13	5	4	22	200	NO
BB-5301	14	16	7	8	32	200	NO
BB-5302	14	14	6	7	22	200	NO
BB-P301	14	18	6	8	32	200	NO
BB-P302	14	21	7	8	32	200	NO
BB-R301	14	22	6	11	34	200	NO
CC-B301	14	14	5	5	22	200	NO
CC-B302	14	17	7	5	28	200	NO
CC-2301	14	18	7	6	30	200	NO
CC-3301	14	21	8	5	38	200	NO
CC-4301	14	19	8	3	32	200	NO
GG-1301	14	17	6	6	26	200	NO
GG-2301	14	47	41	12	141	200	NO
GG-2302	14	18	8	2	33	200	NO
GG-2303	14	19	8	9	35	200	NO
GG-2304	14	20	7	12	35	200	NO
GG-R301	14	21	7	10	33	200	NO

Table 24-3 Building Structural Surfaces Removable <sup>14</sup>C Summary

Survey Unit	# of Sample Locations	Mean	Standard Deviation	Min.	Max.	Investigation Level	Any Result Exceeding Investigation Level?
AA-B301	14	13	4	4	21	200	NO
AA-B302	14	15	5	4	25	200	NO
AA-1301	14	15	3	10	18	200	NO
AA-1302	14	15	4	6	22	200	NO
AA-2301	14	14	5	7	24	200	NO
AA-2302	14	15	3	9	20	200	NO
AA-3301	14	11	3	6	16	200	NO
AA-3302	14	15	6	8	31	200	NO
AA-4301	14	12	4	6	19	200	NO
AA-4302	14	14	2	8	16	200	NO
AA-4303	14	14	4	8	21	200	NO

Survey Unit	# of Sample Locations	Mean	Standard Deviation	Min.	Max.	Investigation Level	Any Result Exceeding Investigation Level?
AA-5301	14	13	5	5	23	200	NO
AA-5302	14	15	4	8	21	200	NO
AA-P301	14	16	4	12	25	200	NO
AA-P302	14	15	6	5	21	200	NO
AA-R301	14	14	3	9	21	200	NO
BB-B301	14	16	4	10	24	200	NO
BB-B302	14	16	3	21	9	200	NO
BB-1301	14	15	3	7	19	200	NO
BB-1302	14	16	5	6	24	200	NO
BB-2301	14	17	5	6	23	200	NO
BB-2302	14	15	5	8	24	200	NO
BB-3301	14	14	5	6	22	200	NO
BB-3302	14	11	4	3	17	200	NO
BB-4301	14	14	5	7	23	200	NO
BB-4302	14	14	4	5	20	200	NO
BB-5301	14	14	3	8	19	200	NO
BB-5302	14	14	4	7	22	200	NO
BB-P301	14	17	3	12	24	200	NO
BB-P302	14	15	5	9	24	200	NO
BB-R301	14	15	6	8	33	200	NO
CC-B301	14	13	4	8	21	200	NO
CC-B302	14	16	4	10	23	200	NO
CC-2301	14	13	3	8	17	200	NO
CC-3301	14	13	6	5	28	200	NO
CC-4301	14	12	4	5	18	200	NO
GG-1301	14	17	4	10	22	200	NO
GG-2301	14	14	3	9	19	200	NO
GG-2302	14	16	4	10	23	200	NO
GG-2303	14	13	4	6	17	200	NO
GG-2304	14	15	4	9	22	200	NO
GG-R301	14	15	6	8	26	200	NO

**Table 24-4 Building Systems Total Beta Surface Activity Summary**

Survey Unit	# of Sample Locations	Mean	MDC	Standard Deviation	Min.	Max.	Investigation Level	Any Result Exceeding Investigation Level?
AA-PVE1	3	326	815	284	0	515	5,000	NO
BB-PVE2	5	410	1072	910	-162	1,998	5,000	NO
CC-2VE1	2	71	324	183	-59	200	5,000	NO
CC-4VE1	1	-12	316	0	-12	-12	5,000	NO
GG-VE01	11	83	1055	358	-540	756	5,000	NO

**Table 24-5 Building Systems Removable 3H Summary**

Survey Unit	# of Sample Locations	Mean	Standard Deviation	Min.	Max.	Investigation Level	Any Result Exceeding Investigation Level?
AA-BDR1	6	15	7	4	23	200	NO
AA-BDR2	4	15	9	5	26	200	NO
AA-BVA1 <sup>7</sup>	N/A	N/A	N/A	N/A	N/A	200	NO
AA-BVE1	1	17	0	17	17	200	NO
AA-1DR1	14	23	7	12	38	200	NO
AA-1DR2	6	14	8	4	26	200	NO
AA-1VA1	12	22	14	2	60	200	NO
AA-1VE1	15	23	10	6	42	200	NO
AA-1VE2	15	21	10	4	37	200	NO
AA-2DR1	87	16	7	1	38	200	NO
AA-2DR2	82	19	9	3	56	200	NO
AA-2VA1	113	16	9	3	56	200	NO
AA-2VA2	113	20	9	3	40	200	NO
AA-2VE1	86	15	7	0	35	200	NO
AA-2VE2	61	21	8	6	48	200	NO
AA-3DR1	38	17	6	4	27	200	NO
AA-3DR2	42	18	7	4	34	200	NO
AA-3VA1	65	17	8	1	36	200	NO
AA-3VA2	79	21	16	4	92	200	NO
AA-3VE1	15	15	6	5	30	200	NO
AA-3VE2	17	19	11	0	53	200	NO
AA-4DR1	26	18	5	7	28	200	NO
AA-4DR2	22	18	8	5	34	200	NO

<sup>7</sup> No vacuums for this survey unit

Survey Unit	# of Sample Locations	Mean	Standard Deviation	Min.	Max.	Investigation Level	Any Result Exceeding Investigation Level?
AA-4DR3	7	13	5	7	22	200	NO
AA-4VA1	51	19	6	8	35	200	NO
AA-4VA2	30	17	9	1	39	200	NO
AA-4VA3	12	20	6	7	28	200	NO
AA-4VE1	18	17	5	8	25	200	NO
AA-4VE2	14	12	5	2	21	200	NO
AA-4VE3	5	16	13	4	36	200	NO
AA-5DR1	19	18	7	7	30	200	NO
AA-5DR2	43	17	5	9	33	200	NO
AA-5VA1	61	21	9	7	42	200	NO
AA-5VA2	82	22	26	1	182	200	NO
AA-5VE1	24	19	7	7	34	200	NO
AA-5VE2	16	17	6	4	26	200	NO
AA-PDR1	2	33	3	31	35	200	NO
AA-PDR2	2	11	15	1	22	200	NO
AA-PVA1 <sup>8</sup>	N/A	N/A	N/A	N/A	N/A	200	NO
AA-PVE1	35	18	7	4	37	200	NO
AA-PVE2	38	20	7	7	35	200	NO
AA-RDR1	6	17	7	7	24	200	NO
AA-RVA1 <sup>9</sup>	N/A	N/A	N/A	N/A	N/A	200	NO
AA-RVE1	5	24	9	14	37	200	NO
BB-BDR1	4	21	10	11	32	200	NO
BB-BDR2	3	21	2	20	23	200	NO
BB-BVA1	2	6	7	1	11	200	NO
BB-BVE1 <sup>10</sup>	N/A	N/A	N/A	N/A	N/A	200	NO
BB-1DR1	13	15	7	3	24	200	NO
BB-1DR2	2	19	4	16	22	200	NO
BB-1VA1	1	12	0	12	12	200	NO
BB-1VE1	5	19	8	9	30	200	NO
BB-1VE2	9	17	7	8	29	200	NO
BB-2DR1	87	18	7	4	48	200	NO
BB-2DR2	98	18	7	3	38	200	NO
BB-2VA1	121	27	23	0	158	200	NO
BB-2VA2	139	18	8	0	46	200	NO

<sup>8</sup> No vacuums this survey unit

<sup>9</sup> No vacuums this survey unit

<sup>10</sup> No exhaust ventilation this survey unit



Survey Unit	# of Sample Locations	Mean	Standard Deviation	Min.	Max.	Investigation Level	Any Result Exceeding Investigation Level?
BB-2VE1	89	17	7	2	33	200	NO
BB-2VE2	100	17	8	1	45	200	NO
BB-3DR1	24	20	7	6	34	200	NO
BB-3DR2	35	19	7	0	31	200	NO
BB-3VA1	73	16	6	3	30	200	NO
BB-3VA2	49	16	7	0	33	200	NO
BB-3VE1	18	18	7	10	34	200	NO
BB-3VE2	24	18	6	6	28	200	NO
BB-4DR1	19	18	7	4	30	200	NO
BB-4DR2	43	17	7	7	40	200	NO
BB-4VA1	52	15	7	1	31	200	NO
BB-4VA2	67	19	32	1	273	200	YES
BB-4VE1	18	16	7	6	29	200	NO
BB-4VE2	25	16	9	3	34	200	NO
BB-5DR1	23	16	6	7	31	200	NO
BB-5DR2	41	18	7	5	42	200	NO
BB-5VA1	74	17	7	0	33	200	NO
BB-5VA2	71	17	8	2	39	200	NO
BB-5VE1	16	15	7	4	29	200	NO
BB-5VE2	27	16	5	7	27	200	NO
BB-PDR1	2	21	0	21	21	200	NO
BB-PDR2	2	15	4	12	17	200	NO
BB-PVA1 <sup>11</sup>	N/A	N/A	N/A	N/A	N/A	200	NO
BB-PVE1	26	17	9	1	34	200	NO
BB-PVE2	34	19	7	6	42	200	NO
BB-RDR1	5	35	28	16	85	200	NO
BB-RVA1 <sup>12</sup>	N/A	N/A	N/A	N/A	N/A	200	NO
BB-RVE1	5	19	9	6	28	200	NO
CC-BDR1	1	16	0	16	16	200	NO
CC-BDR2	2	14	0	14	15	200	NO
CC-BVE1	1	16	0	16	16	200	NO
CC-BVE2	2	21	27	2	40	200	NO
CC-2DR1	2	14	2	13	15	200	NO
CC-2VA1	5	18	11	10	36	200	NO
CC-2VE1	6	18	10	7	34	200	NO

<sup>11</sup> No vacuum this survey unit

<sup>12</sup> No vacuum this survey unit

Survey Unit	# of Sample Locations	Mean	Standard Deviation	Min.	Max.	Investigation Level	Any Result Exceeding Investigation Level?
CC-3DR1	1	0	16	16	16	200	NO
CC-3VA1	1	0	15	15	15	200	NO
CC-3VE1	1	0	26	26	26	200	NO
CC-4DR1	2	12	2	10	13	200	NO
CC-4VA1	4	16	5	9	21	200	NO
CC-4VE1	3	15	2	13	17	200	NO
CC-PVA1	3	15	9	6	24	200	NO
CS-DR01	2	20	9	13	26	200	NO
GG-1DR1	8	16	8	7	31	200	NO
GG-1VA1	2	19	8	14	25	200	NO
GG-1VE1	1	15	0	15	15	200	NO
GG-DR01	39	44	73	8	453	200	YES
GG-VA01	2	27	2	25	28	200	NO
GG-VE01	29	19	8	8	38	200	NO
GG-2DR4	9	14	5	3	18	200	NO
GG-2VA4	22	12	3	10	14	200	NO
GG-2VE4	8	16	6	8	24	200	NO
GG-RDR1	4	19	5	14	25	200	NO
GG-RVA1 <sup>13</sup>	N/A	N/A	N/A	N/A	N/A	200	NO
GG-RVE1	26	17	9	1	36	200	NO

Table 24-6 Building Systems Removable 14C Summary

Survey Unit	# of Sample Locations	Mean	Standard Deviation	Min.	Max.	Investigation Level	Any Result Exceeding Investigation Level?
AA-BDR1	6	16	7	4	22	200	NO
AA-BDR2	4	17	6	9	22	200	NO
AA-BVA1 <sup>14</sup>	N/A	N/A	N/A	N/A	N/A	200	NO
AA-BVE1	1	18	0	18	18	200	NO
AA-1DR1	14	13	4	7	23	200	NO
AA-1DR2	6	14	5	6	19	200	NO

<sup>13</sup> No vacuum this survey unit

<sup>14</sup> No vacuum this survey unit

Survey Unit	# of Sample Locations	Mean	Standard Deviation	Min.	Max.	Investigation Level	Any Result Exceeding Investigation Level?
AA-1VA1	12	14	4	8	22	200	NO
AA-1VE1	15	16	5	9	25	200	NO
AA-1VE2	15	13	3	9	18	200	NO
AA-2DR1	87	15	4	6	25	200	NO
AA-2DR2	82	14	5	5	27	200	NO
AA-2VA1	113	15	4	4	31	200	NO
AA-2VA2	113	14	4	2	28	200	NO
AA-2VE1	86	15	5	3	27	200	NO
AA-2VE2	61	15	5	5	28	200	NO
AA-3DR1	38	14	4	5	22	200	NO
AA-3DR2	42	14	5	6	27	200	NO
AA-3VA1	65	13	4	4	21	200	NO
AA-3VA2	79	17	40	3	367	200	YES
AA-3VE1	15	15	4	5	23	200	NO
AA-3VE2	17	25	18	8	66	200	NO
AA-4DR1	26	12	4	6	20	200	NO
AA-4DR2	22	12	4	7	21	200	NO
AA-4DR3	7	16	3	12	20	200	NO
AA-4VA1	51	13	4	3	20	200	NO
AA-4VA2	30	13	4	6	24	200	NO
AA-4VA3	12	13	4	8	17	200	NO
AA-4VE1	18	14	7	8	36	200	NO
AA-4VE2	14	15	5	7	24	200	NO
AA-4VE3	5	17	5	9	21	200	NO
AA-5DR1	19	14	4	8	21	200	NO
AA-5DR2	43	13	5	3	28	200	NO
AA-5VA1	61	13	4	6	24	200	NO
AA-5VA2	82	13	4	4	23	200	NO
AA-5VE1	24	15	6	8	31	200	NO
AA-5VE2	16	19	11	9	51	200	NO
AA-PDR1	2	11	5	8	15	200	NO
AA-PDR2	2	21	3	19	23	200	NO
AA-PVA1 <sup>15</sup>	N/A	N/A	N/A	N/A	N/A	200	NO
AA-PVE1	35	15	5	5	25	200	NO
AA-PVE2	38	13	5	5	24	200	NO
AA-RDR1	6	14	4	9	20	200	NO

<sup>15</sup> No vacuum this survey unit

Survey Unit	# of Sample Locations	Mean	Standard Deviation	Min.	Max.	Investigation Level	Any Result Exceeding Investigation Level?
AA-RVA1 <sup>16</sup>	N/A	N/A	N/A	N/A	N/A	200	NO
AA-RVE1	5	14	4	9	20	200	NO
BB-BDR1	4	11	2	9	13	200	NO
BB-BDR2	3	10	1	9	10	200	NO
BB-BVA1	2	13	1	12	14	200	NO
BB-BVE1 <sup>17</sup>	N/A	N/A	N/A	N/A	N/A	200	NO
BB-1DR1	13	14	3	9	19	200	NO
BB-1DR2	2	14	2	13	16	200	NO
BB-1VA1	1	15	0	15	15	200	NO
BB-1VE1	5	12	4	8	18	200	NO
BB-1VE2	9	15	5	11	24	200	NO
BB-2DR1	87	15	5	4	29	200	NO
BB-2DR2	98	13	4	4	24	200	NO
BB-2VA1	121	16	5	5	30	200	NO
BB-2VA2	139	13	5	2	23	200	NO
BB-2VE1	89	15	4	7	28	200	NO
BB-2VE2	100	13	4	4	27	200	NO
BB-3DR1	24	12	3	8	19	200	NO
BB-3DR2	35	11	4	5	22	200	NO
BB-3VA1	73	14	4	6	24	200	NO
BB-3VA2	49	14	5	3	28	200	NO
BB-3VE1	18	14	6	7	30	200	NO
BB-3VE2	24	13	4	7	23	200	NO
BB-4DR1	19	12	5	5	20	200	NO
BB-4DR2	43	13	5	7	28	200	NO
BB-4VA1	52	12	4	3	21	200	NO
BB-4VA2	67	13	3	4	25	200	NO
BB-4VE1	18	14	5	4	19	200	NO
BB-4VE2	25	14	5	5	25	200	NO
BB-5DR1	23	12	3	4	17	200	NO
BB-5DR2	40	11	3	4	18	200	NO
BB-5VA1	74	13	4	3	24	200	NO
BB-5VA2	71	13	4	5	24	200	NO
BB-5VE1	16	13	3	9	18	200	NO
BB-5VE2	27	14	4	7	22	200	NO
BB-PDR1	2	16	0	16	16	200	NO

<sup>16</sup> No vacuum this survey unit

<sup>17</sup> No exhaust ventilation this survey unit

Survey Unit	# of Sample Locations	Mean	Standard Deviation	Min.	Max.	Investigation Level	Any Result Exceeding Investigation Level?
BB-PDR2	2	15	2	14	16	200	NO
BB-PVA1 <sup>18</sup>	N/A	N/A	N/A	N/A	N/A	200	NO
BB-PVE1	26	15	5	8	22	200	NO
BB-PVE2	34	15	7	7	49	200	NO
BB-RDR1	5	16	3	12	21	200	NO
BB-RVA1 <sup>19</sup>	N/A	N/A	N/A	N/A	N/A	200	NO
BB-RVE1	5	13	3	11	17	200	NO
CC-BDR1	1	9	0	9	9	200	NO
CC-BDR2	2	14	8	8	19	200	NO
CC-BVE1	1	10	0	10	10	200	NO
CC-BVE2	2	17	14	7	27	200	NO
CC-2DR1	2	15	5	12	18	200	NO
CC-2VA1	5	15	4	12	22	200	NO
CC-2VE1	6	15	5	11	23	200	NO
CC-3DR1	1	23	0	23	23	200	NO
CC-3VA1	1	14	0	14	14	200	NO
CC-3VE1	1	11	0	11	11	200	NO
CC-4DR1	2	18	1	17	18	200	NO
CC-4VA1	4	13	5	9	15	200	NO
CC-4VE1	3	13	5	7	17	200	NO
CC-PVA1	3	15	2	13	17	200	NO
CS-DR01	2	12	2	10	13	200	NO
GG-1DR1	8	15	3	9	20	200	NO
GG-1VA1	2	17	0	17	17	200	NO
GG-1VE1	1	12	0	12	12	200	NO
GG-DR01	39	13	11	2	74	200	NO
GG-VA01	2	9	4	7	12	200	NO
GG-VE01	29	13	4	7	22	200	NO
GG-2DR4	9	15	4	9	20	200	NO
GG-2VA4	23	13	2	12	15	200	NO
GG-2VE4	8	13	4	5	19	200	NO
GG-RDR1	4	11	3	8	15	200	NO
GG-RVA1 <sup>20</sup>	N/A	N/A	N/A	N/A	N/A	200	NO
GG-RVE1	26	13	4	2	21	200	NO

<sup>18</sup> No vacuum this survey unit

<sup>19</sup> No vacuum this survey unit

<sup>20</sup> No vacuum this survey unit

## 24.2 Determining Compliance for Building Surfaces and Structures

Final status survey results were initially compared to the investigation levels. All total and removable surface activity results on building structural surfaces were less than investigation levels. The Sign test is used to determine the minimum number of sample locations. Because all measurements are less than the DCGL, all survey units pass the Sign Test. Therefore, the null hypothesis can be rejected and all survey units meet the release criterion and are suitable for release for unrestricted use.

The results of the data quality assessment and calculations of the dose from each structural surface survey unit are presented in Table 22-6.

**Table 24-7 Structural Surfaces Total Beta Surface Activity Dose Calculations**

Survey Unit	Standard Deviation (dpm/100 cm <sup>2</sup> )	# Samples Required	Actual # of Samples	Adequate # of Samples?	Mean (dpm/100 cm <sup>2</sup> )	Calculated Annual TEDE <sup>21</sup> (mrem/yr)
AA-B301	168	11	14	Yes	314	0.0042
AA-B302	131	11	14	Yes	232	0.0031
AA-1301	211	11	14	Yes	305	0.0041
AA-1302	731	11	14	Yes	550	0.0074
AA-2301	1140	11	14	Yes	557	0.0075
AA-2302	278	11	14	Yes	94	0.0013
AA-3301	382	11	14	Yes	267	0.0036
AA-3302	125	11	14	Yes	34	0.0005
AA-4301	212	11	14	Yes	200	0.0027
AA-4302	173	11	14	Yes	256	0.0035
AA-4303	172	11	14	Yes	-296	-0.0040
AA-5301	243	11	14	Yes	113	0.0015
AA-5302	304	11	14	Yes	273	0.0037
AA-P301	126	11	14	Yes	381	0.0051
AA-P302	210	11	14	Yes	324	0.0044
AA-R301	685	11	14	Yes	829	0.0112
BB-B301	271	11	14	Yes	158	0.0021

<sup>21</sup> The TEDE shown is calculated by multiplying 25 mrem/yr by the ratio of the mean total surface activity to the C-14 DCGL of 3.7E6 dpm/100cm<sup>2</sup> and then multiplying by 2 to account for the ISO 7503-1 surface efficiency. See Section 17.5 for a discussion of efficiency determinations.

Survey Unit	Standard Deviation (dpm/100 cm <sup>2</sup> )	# Samples Required	Actual # of Samples	Adequate # of Samples?	Mean (dpm/100 cm <sup>2</sup> )	Calculated Annual TEDE <sup>21</sup> (mrem/yr)
BB-B302	212	11	14	Yes	386	0.0052
BB-1301	560	11	14	Yes	434	0.0059
BB-1302	520	11	14	Yes	245	0.0033
BB-2301	553	11	14	Yes	633	0.0086
BB-2302	181	11	14	Yes	138	0.0019
BB-3301	392	11	14	Yes	160	0.0022
BB-3302	220	11	14	Yes	85	0.0011
BB-4301	448	11	14	Yes	61	0.0008
BB-4302	206	11	14	Yes	13	0.0002
BB-5301	257	11	14	Yes	178	0.0024
BB-5302	289	11	14	Yes	247	0.0033
BB-P301	181	11	14	Yes	317	0.0043
BB-P302	204	11	14	Yes	301	0.0041
<b>BB-R301</b>	<b>1,050</b>	<b>11</b>	<b>14</b>	<b>Yes</b>	<b>1,101</b>	<b>0.0149</b>
CC-B301	118	11	14	Yes	166	0.0022
CC-B302	301	11	14	Yes	99	0.0013
CC-2301	102	11	14	Yes	125	0.0017
CC-3301	77	11	14	Yes	-32	-0.0004
CC-4301	107	11	14	Yes	159	0.0021
GG-1301	244	11	14	Yes	548	0.0074
GG-2301	304	11	14	Yes	193	0.0026
GG-2302	271	11	14	Yes	147	0.0020
GG-2303	458	11	14	Yes	609	0.0082
GG-2304	550	11	14	Yes	831	0.0112
GG-R301	517	11	14	Yes	1,071	0.0145
					<b>Maximum:</b>	<b>0.0149</b>

### 24.3 Determining Compliance for Building Systems

Final status survey results were initially compared to the investigation levels. The geometry of ventilation, vacuum and drain system internals precluded scanning and total activity measurements. Two discreet removable surface activity measurements were greater than the investigation level. The maximum removable activity measurements on system components were 453 dpm/100cm<sup>2</sup> H-3 and 367 dpm/100cm<sup>2</sup> C-14 which is a small fraction of the DSV. Therefore, the residual radioactivity was not remediated, and all systems survey units meet the release criteria and are suitable for release.

## 25.0 Quality Assurance Surveys

Quality assurance surveys consisted of re-performing the FSS protocol for building structural surfaces to achieve a minimum of 5% duplication of scans, static measurements and smears. This was implemented by re-performing the entire survey protocol for survey units judgmentally selected by the Project Manager. Survey unit BB-1301 was re-surveyed as BB-1QA1, survey unit BB-1302 was re-surveyed as BB-1QA2, and survey units GG-2301, GG-2302, and GG-2303 were re-surveyed as GG-QA01.

### 25.1 QA Survey Results

All QA survey results were similar to FSS data and the conclusions were the same as those based on the initial surveys. QA survey results are presented in Appendix G and are summarized in the tables below.

**Table 25-1 QA Survey Building Structural Surfaces Total Activity Summary**

Survey Unit	# of Sample Locations	Mean	MDC	Standard Deviation	Min.	Max.	Investigation Level	Any Result Exceeding Investigation Level?
BB-1QA1	14	109	115	146	-160	286	5,000	NO
BB-1QA2	14	74	102	228	-80	848	5,000	NO
GG-QA01	14	252	413	264	0	594	5,000	NO

**Table 25-2 QA Survey Building Structural Surfaces Removable <sup>3</sup>H Summary**

Survey Unit	# of Sample Locations	Mean	Standard Deviation	Min.	Max.	Investigation Level	Any Result Exceeding Investigation Level?
BB-1QA1	14	17	5	6	25	200	NO
BB-1QA2	14	18	6	6	26	200	NO
GG-QA01	14	18	7	9	25	200	NO



**Table 25-3 QA Survey Building Structural Surfaces Removable <sup>14</sup>C Summary**

Survey Unit	# of Sample Locations	Mean	Standard Deviation	Min.	Max.	Investigation Level	Any Result Exceeding Investigation Level?
BB-1QA1	14	16	5	9	25	200	NO
BB-1QA2	14	13	4	6	21	200	NO
GG-QA01	14	13	9	4	22	200	NO

## 26.0 References

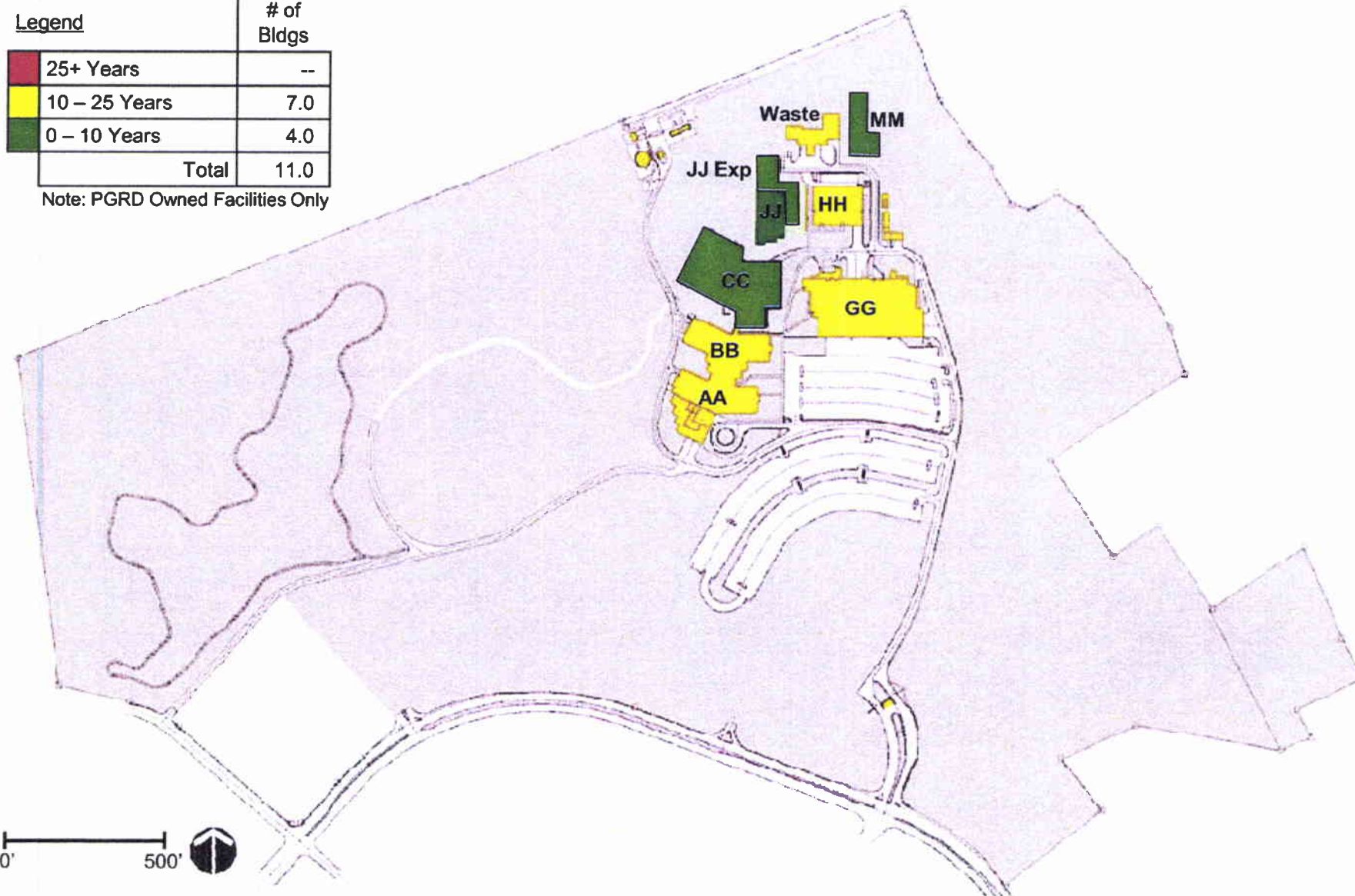
- NRC Regulations 10 CFR 20 Subpart E
- NUREG-1575, "Multi-Agency Radiation Survey and Site Investigation Manual" (MARSSIM)
- NUREG-1505, "A Nonparametric Statistical Methodology for the Design and Analysis of Final Decommissioning Surveys"
- NUREG 1507, "Minimum Detectable Concentrations with Typical Radiation Survey Instruments for Various Contaminants and Field Conditions"
- NUREG 1757, Volume 1 "Consolidated NMSS Decommissioning Guidance," September, 2002
- USNRC Policy and Guidance Directive FC 83-23, "Guidelines for the Decontamination of Facilities and Equipment Prior to Release for Unrestricted Use or Termination of Byproduct, Source, or Special Nuclear Material Licenses."
- ISO-7503-1, "Evaluation of Surface Contamination – Part 1: Beta Emitters and Alpha Emitters." 1988
- Pfizer Chesterfield Site Decommissioning Work Plan
- Pfizer Chesterfield Site Decommissioning Health and Safety Plan
- Pfizer Radioactive Materials License Number 24-32439-01

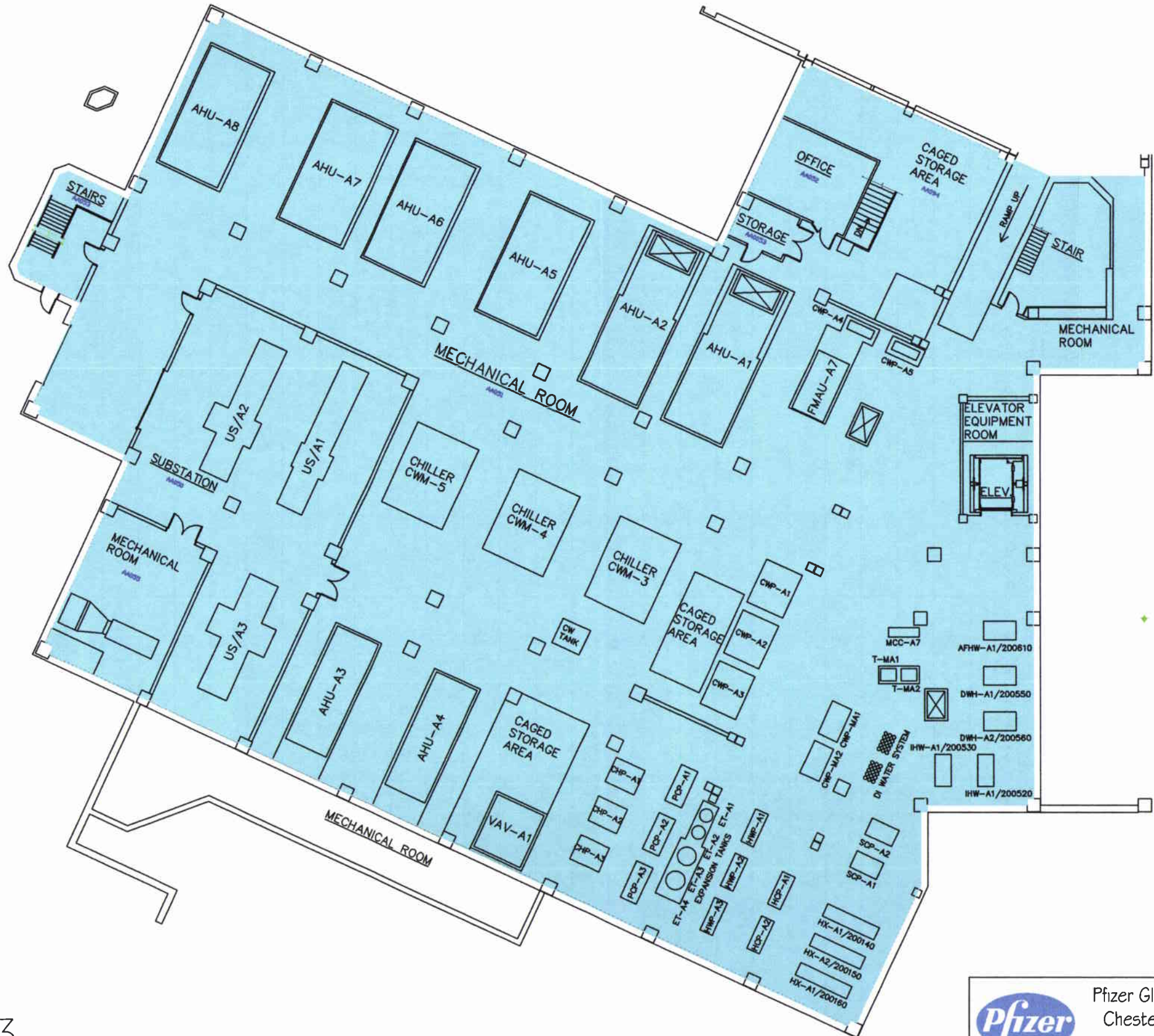
# Site Plan (Age of Facilities)

St. Louis, MO (USA)

Legend	# of Bldgs
25+ Years	--
10 – 25 Years	7.0
0 – 10 Years	4.0
<b>Total</b>	<b>11.0</b>

Note: PGRD Owned Facilities Only





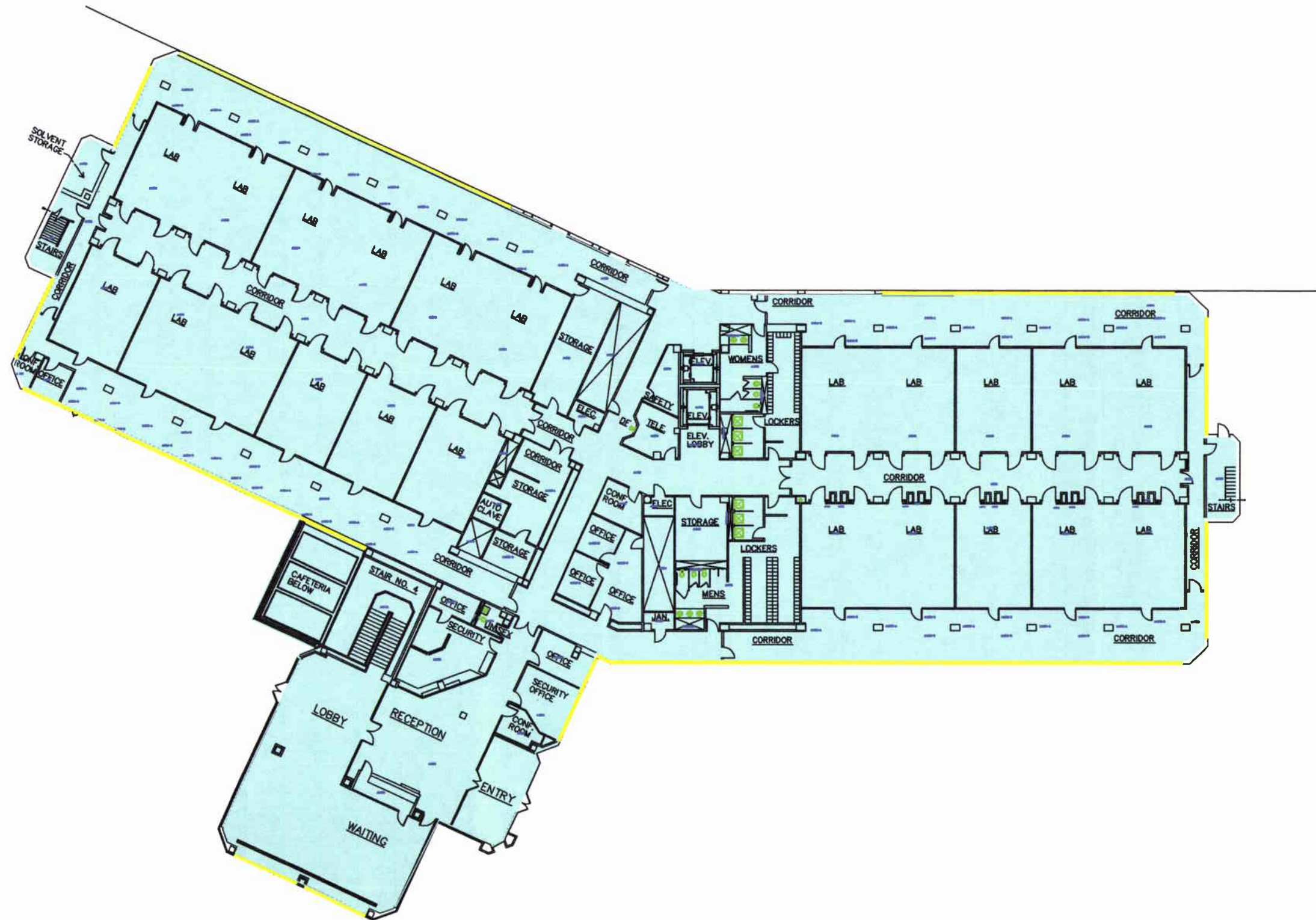
Class 3



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 Chesterfield Facility Decommissioning  
 Final Status Report





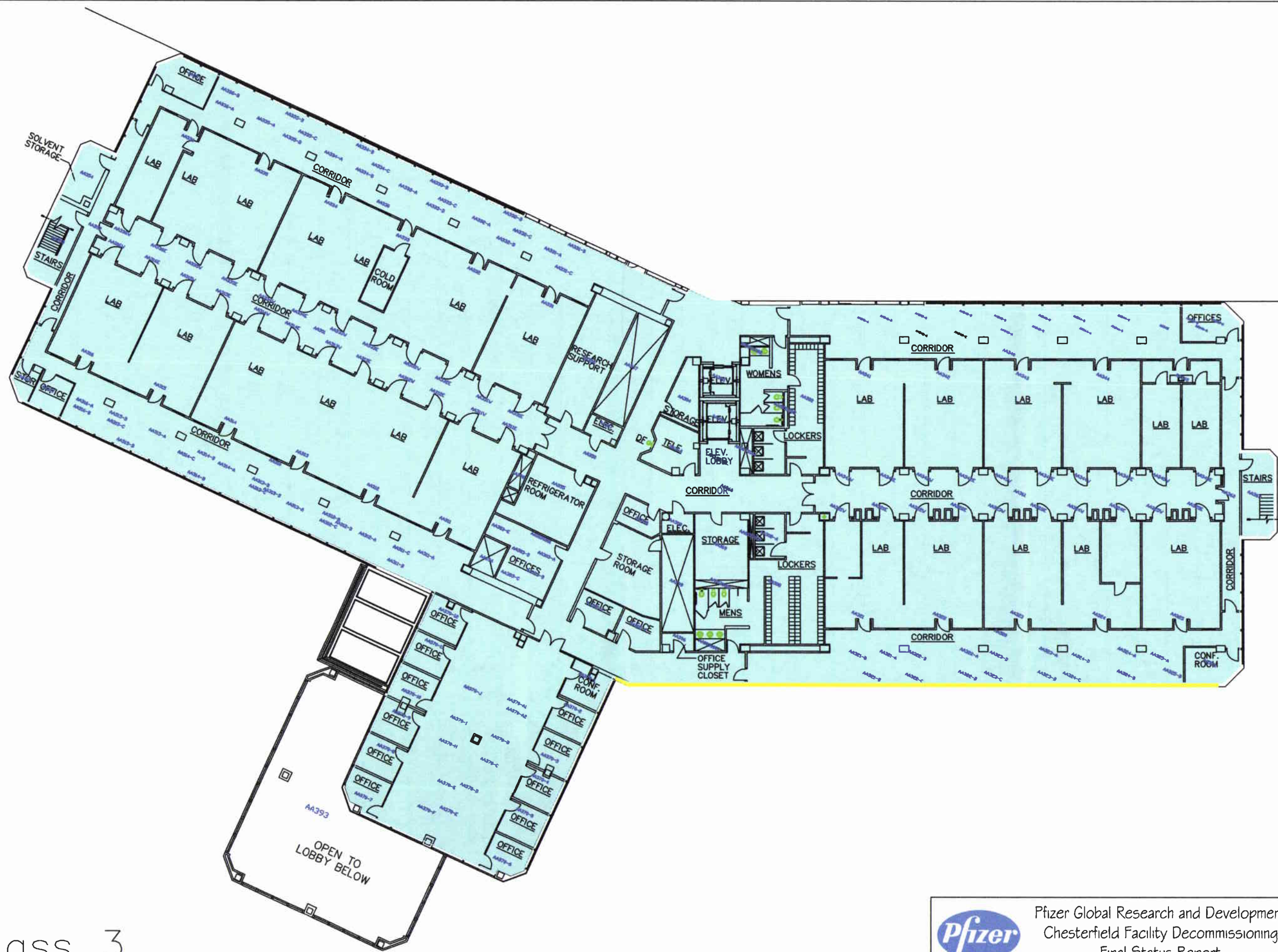


Class 3

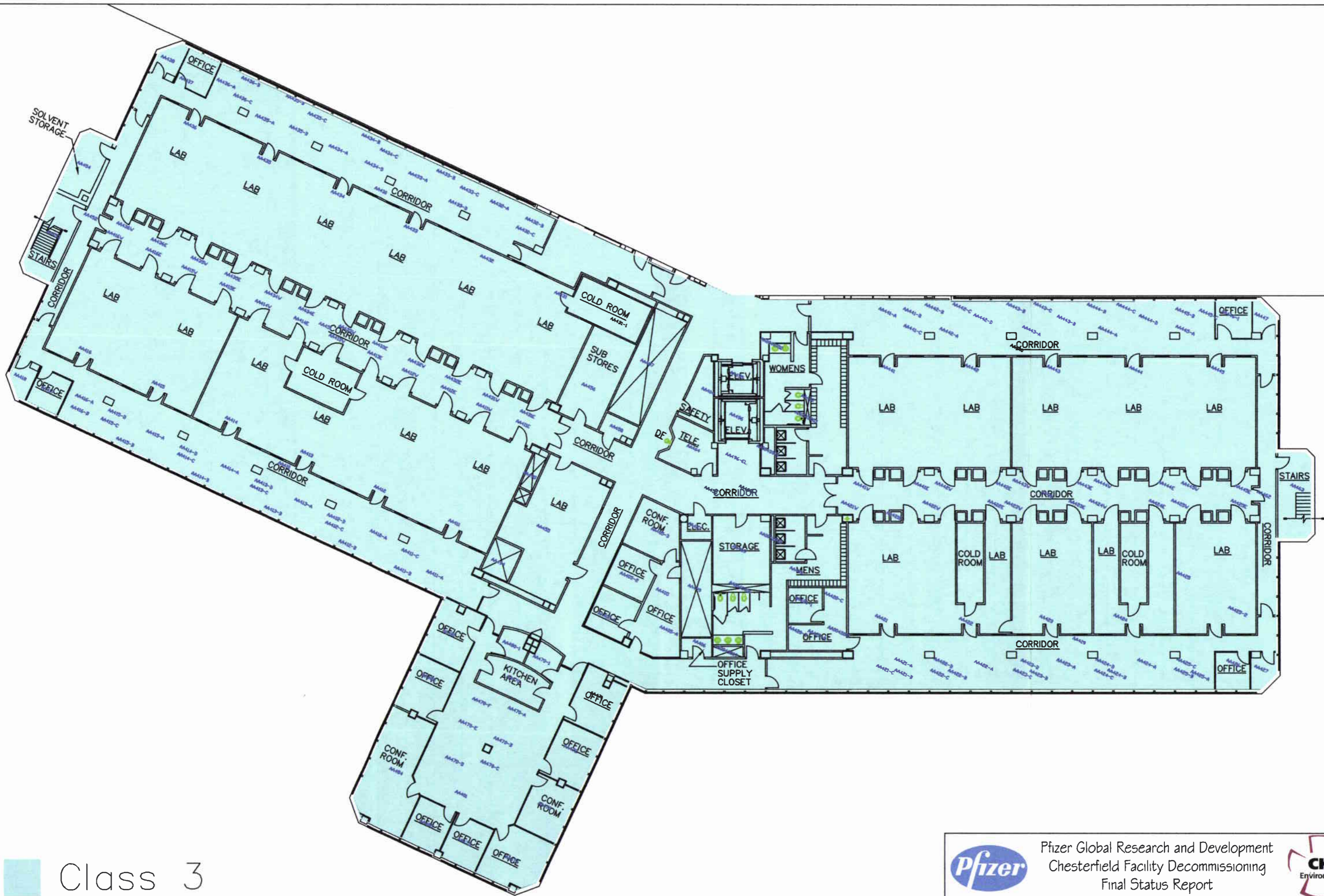


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 Chesterfield Facility Decommissioning  
 Final Status Report





Class 3

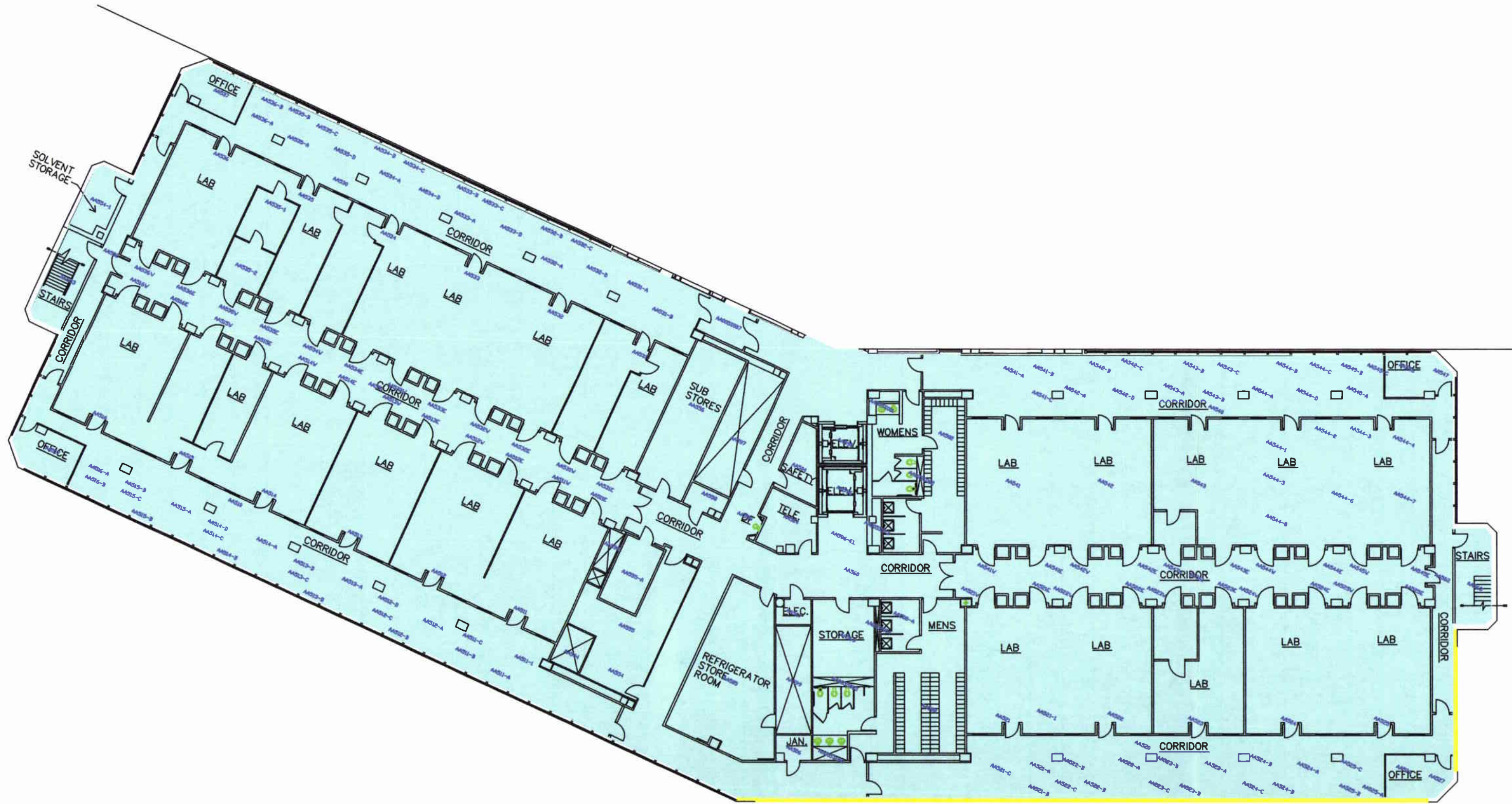


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 Chesterfield Facility Decommissioning  
 Final Status Report





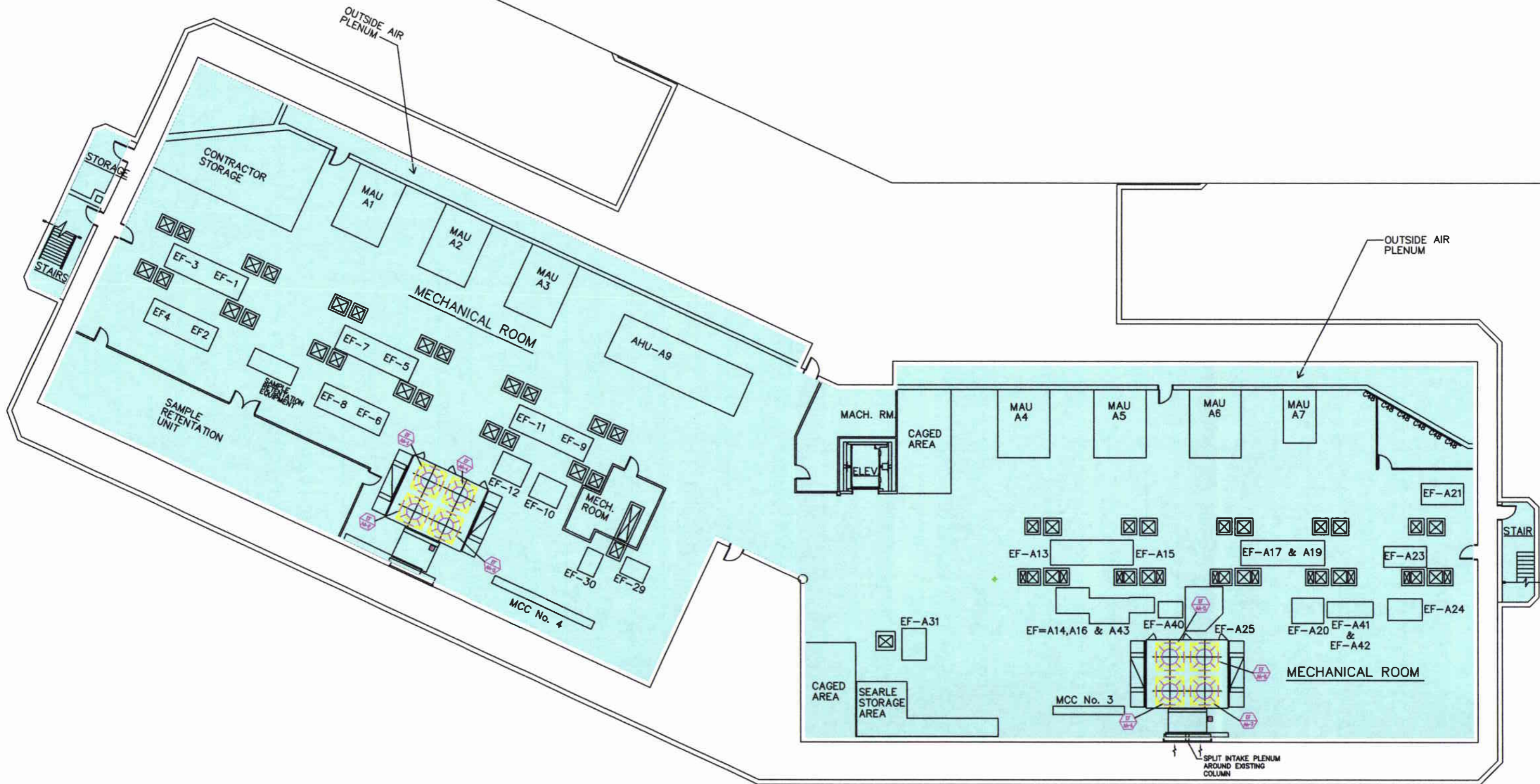
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 Final Status Report





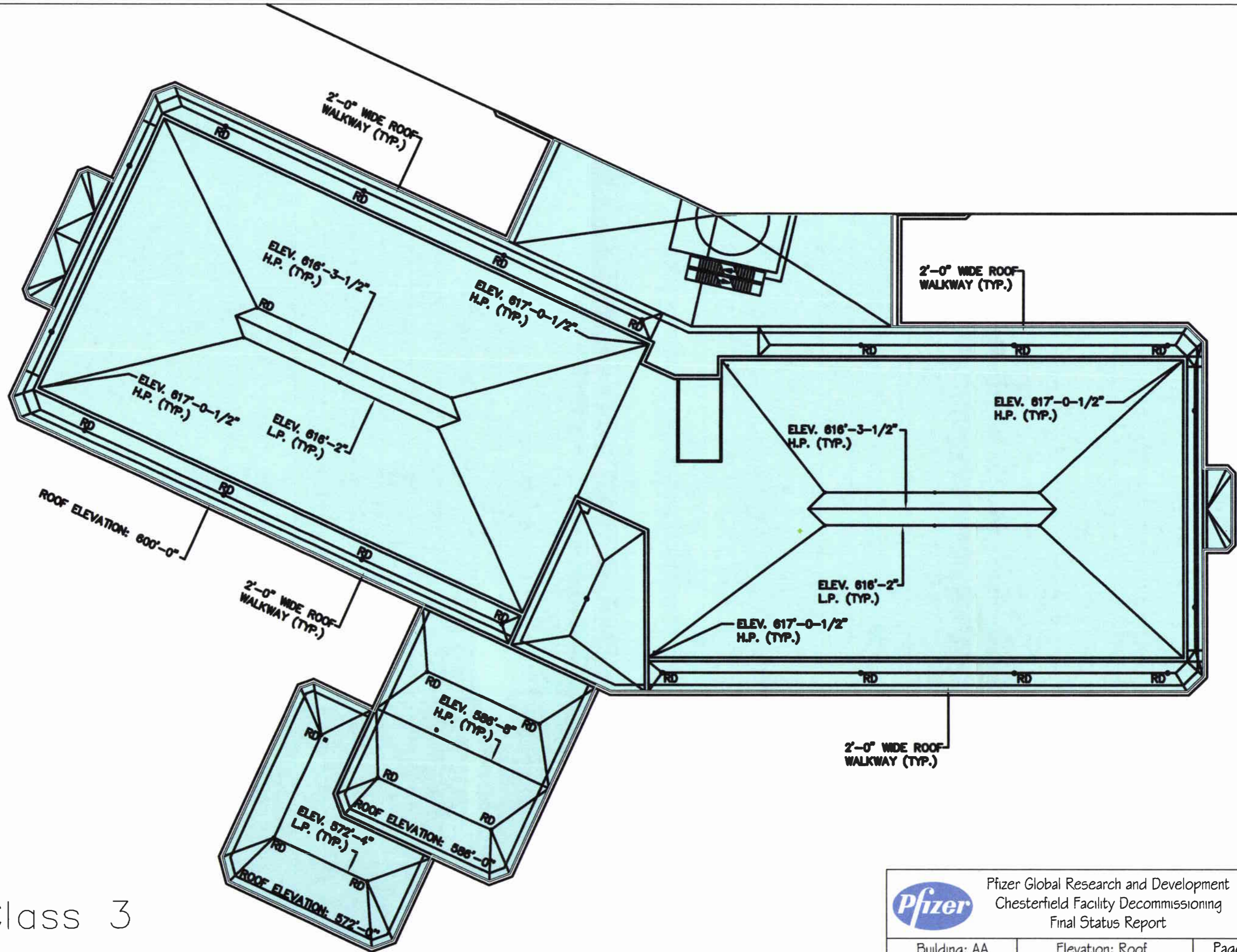


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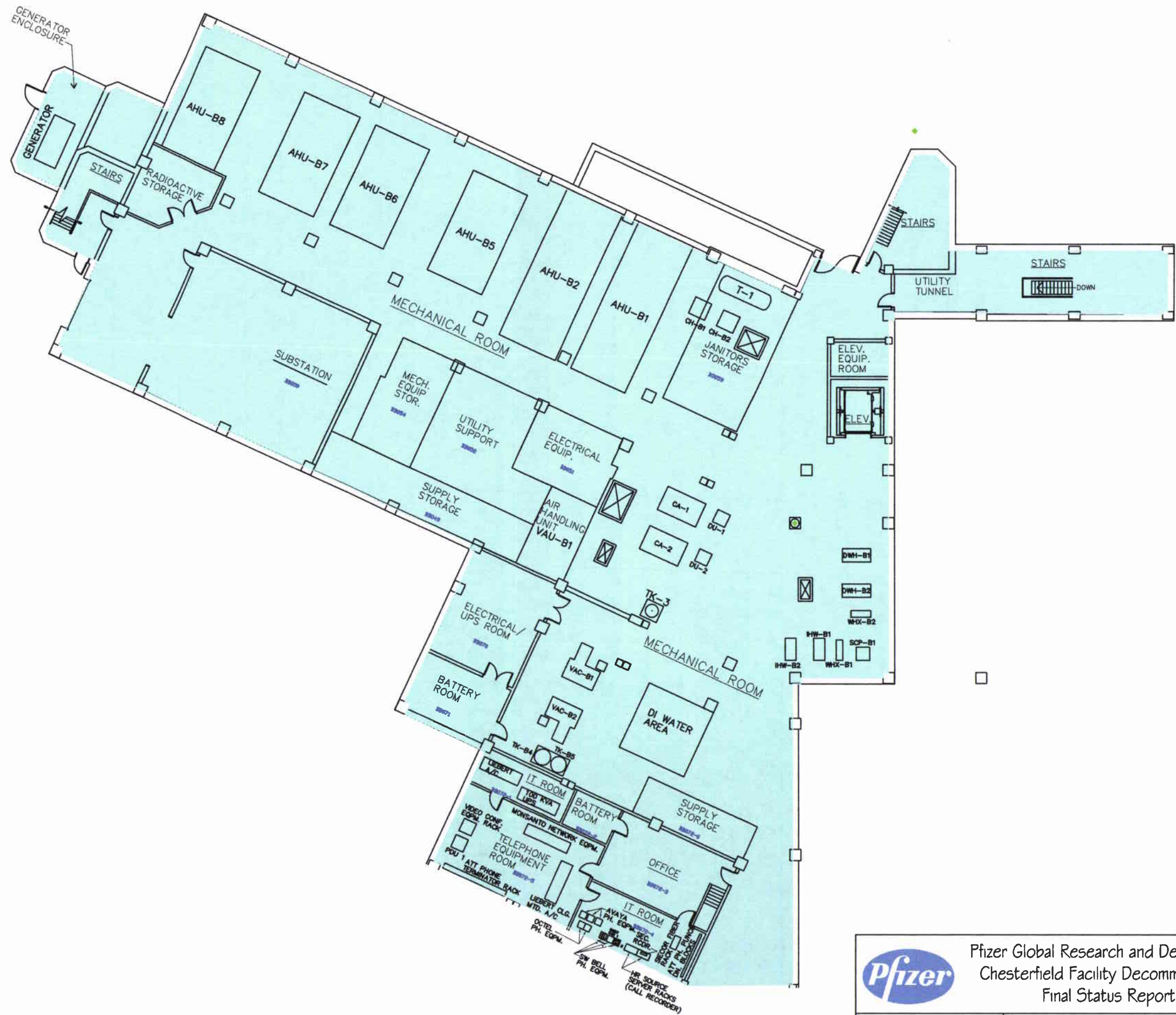


Class 3



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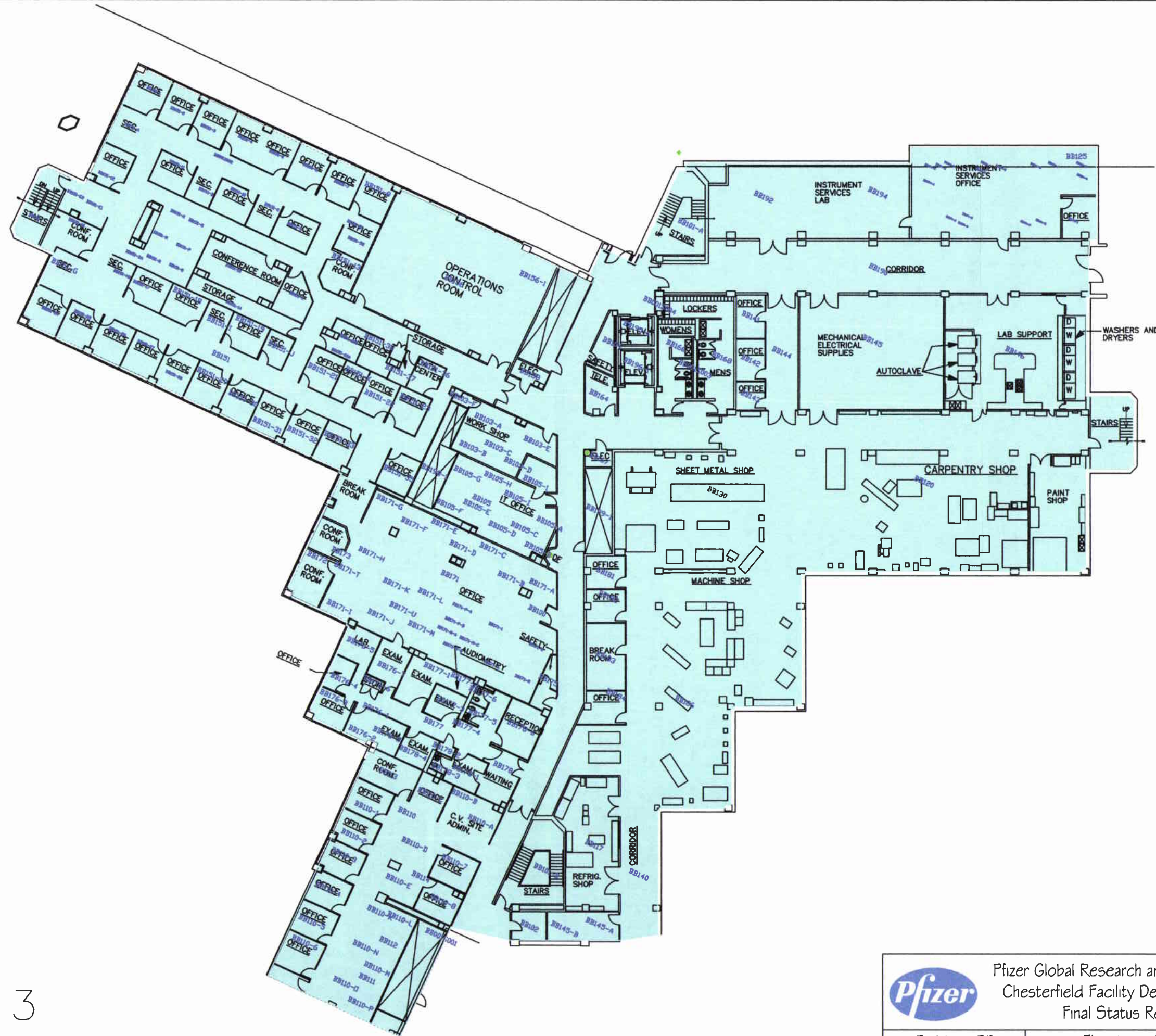


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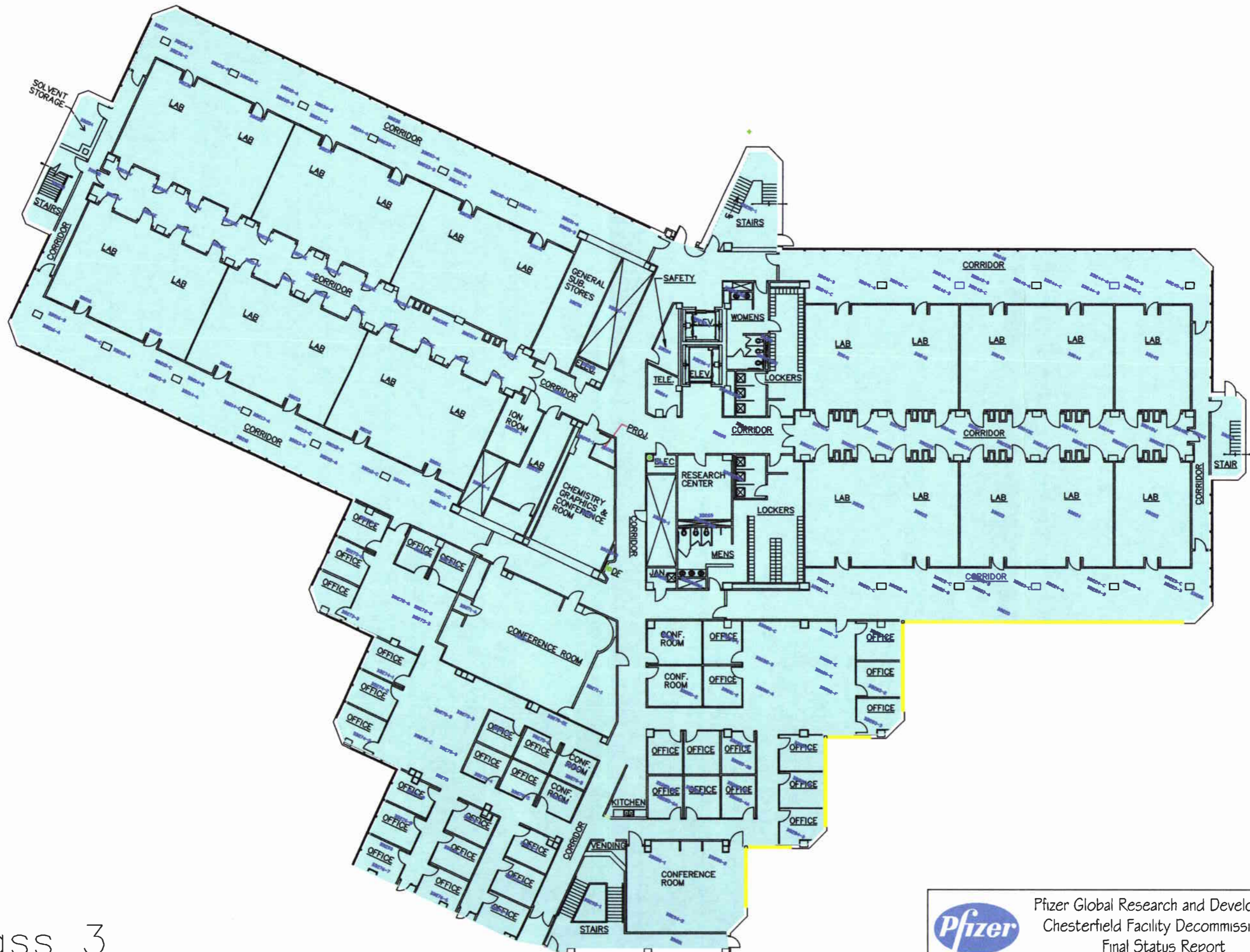


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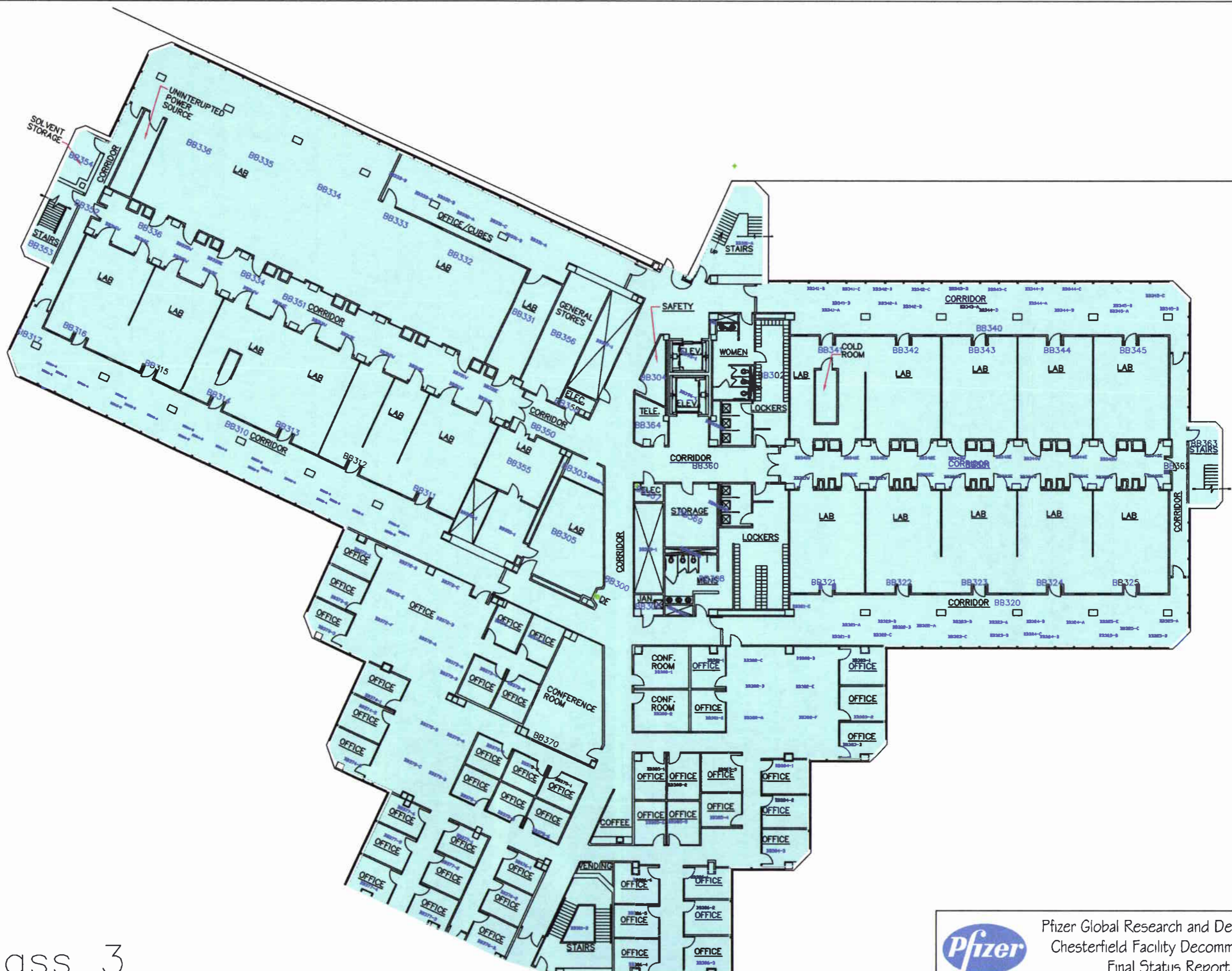


Class 3

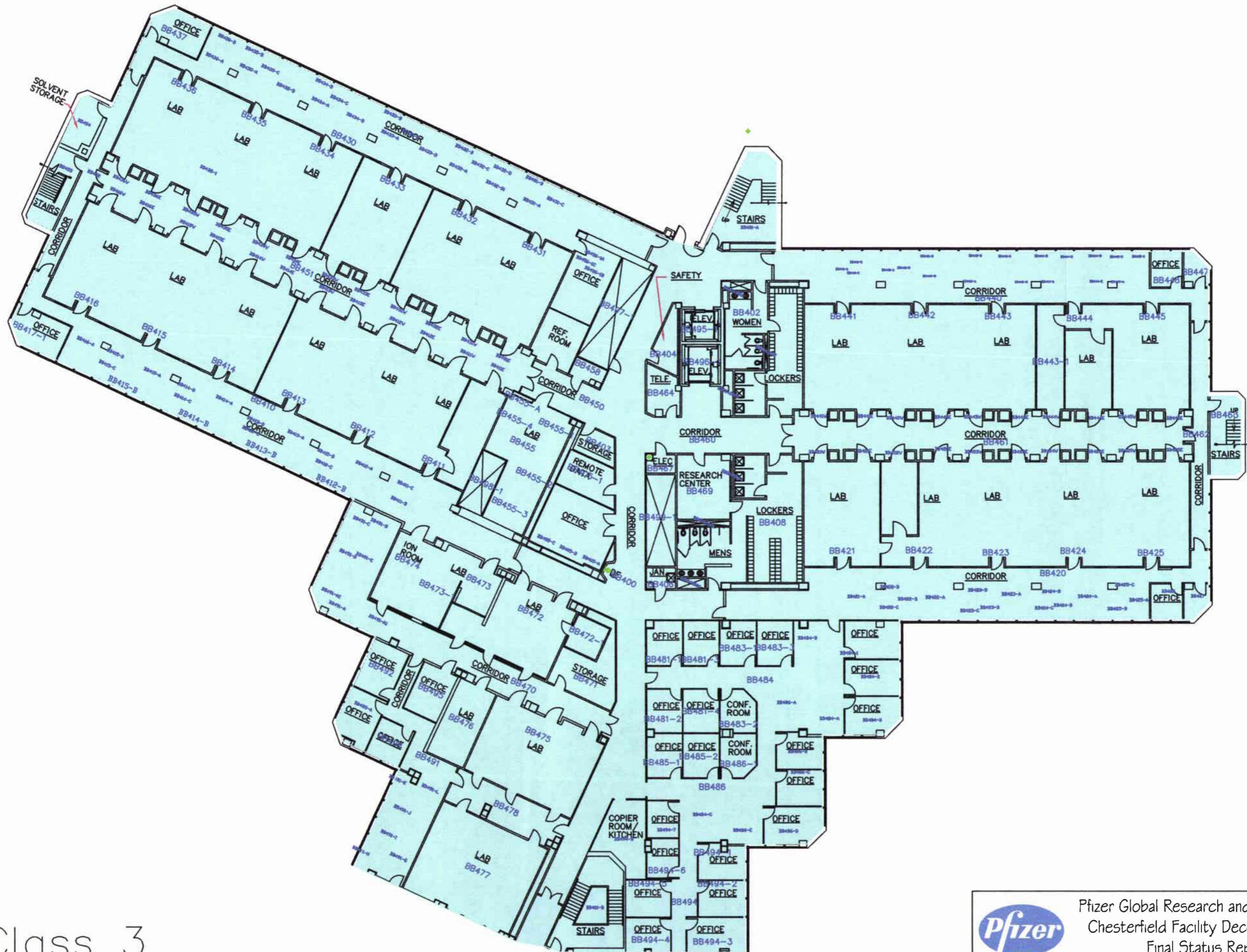


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 Chesterfield Facility Decommissioning  
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Class 3

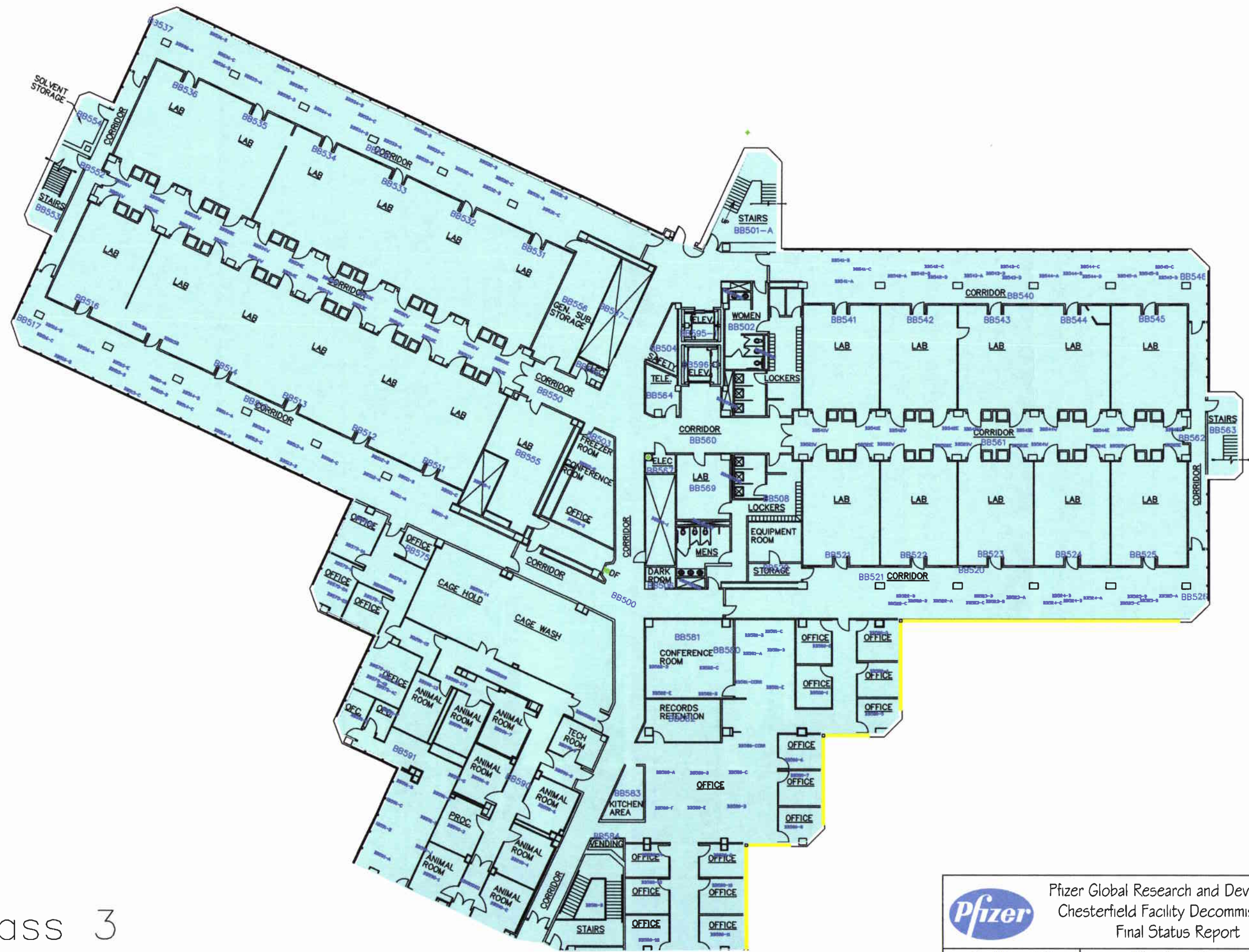


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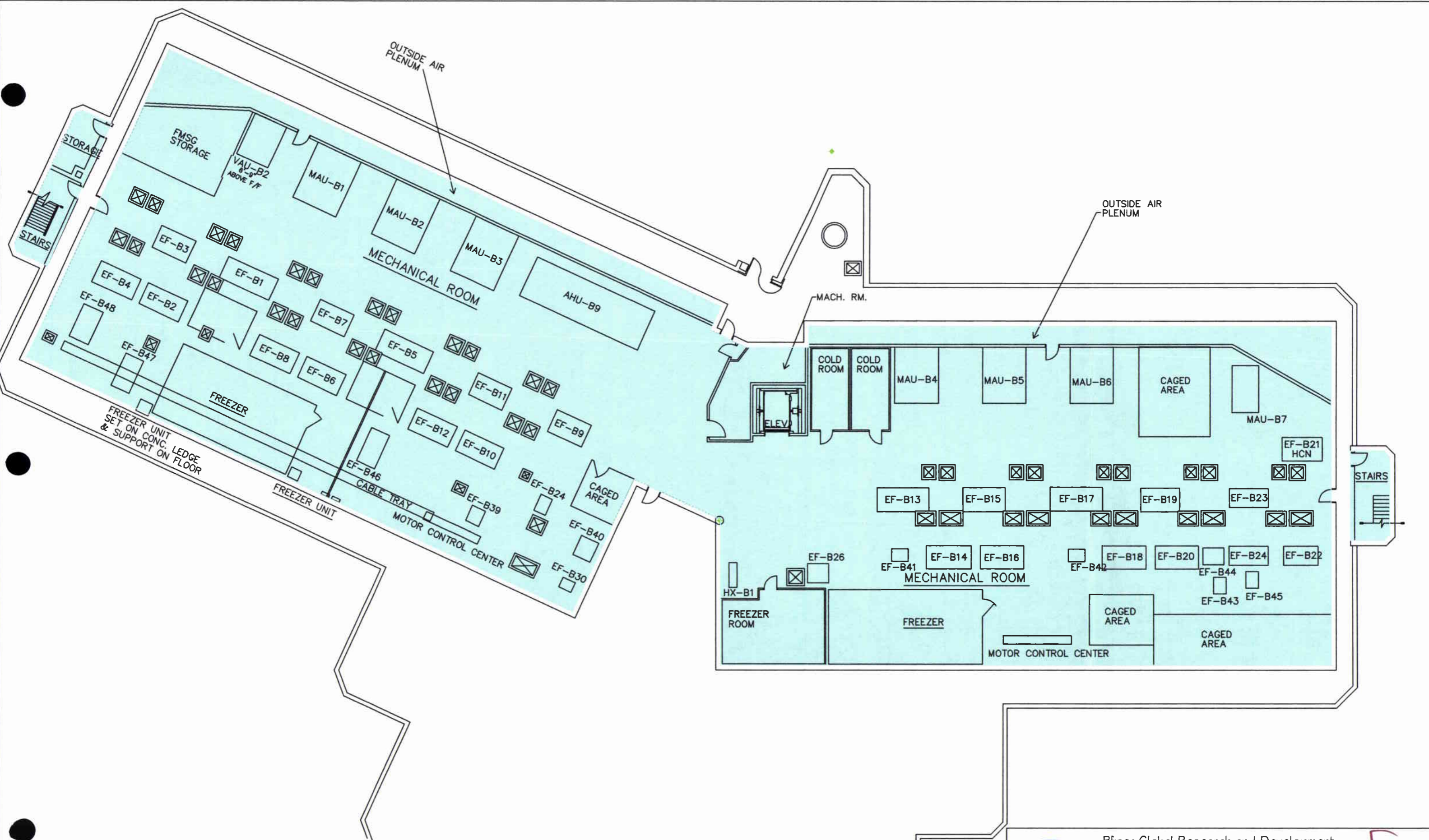
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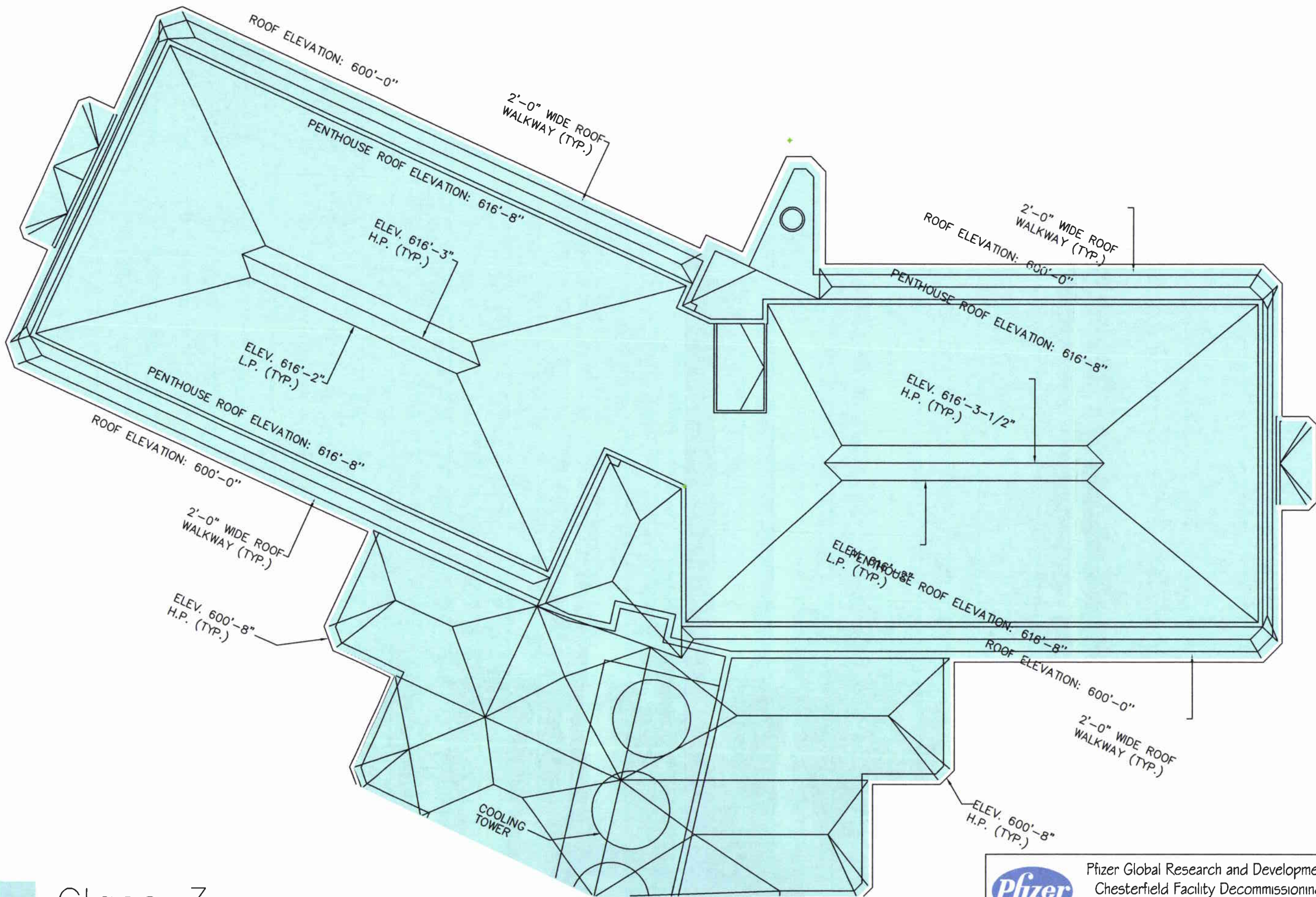


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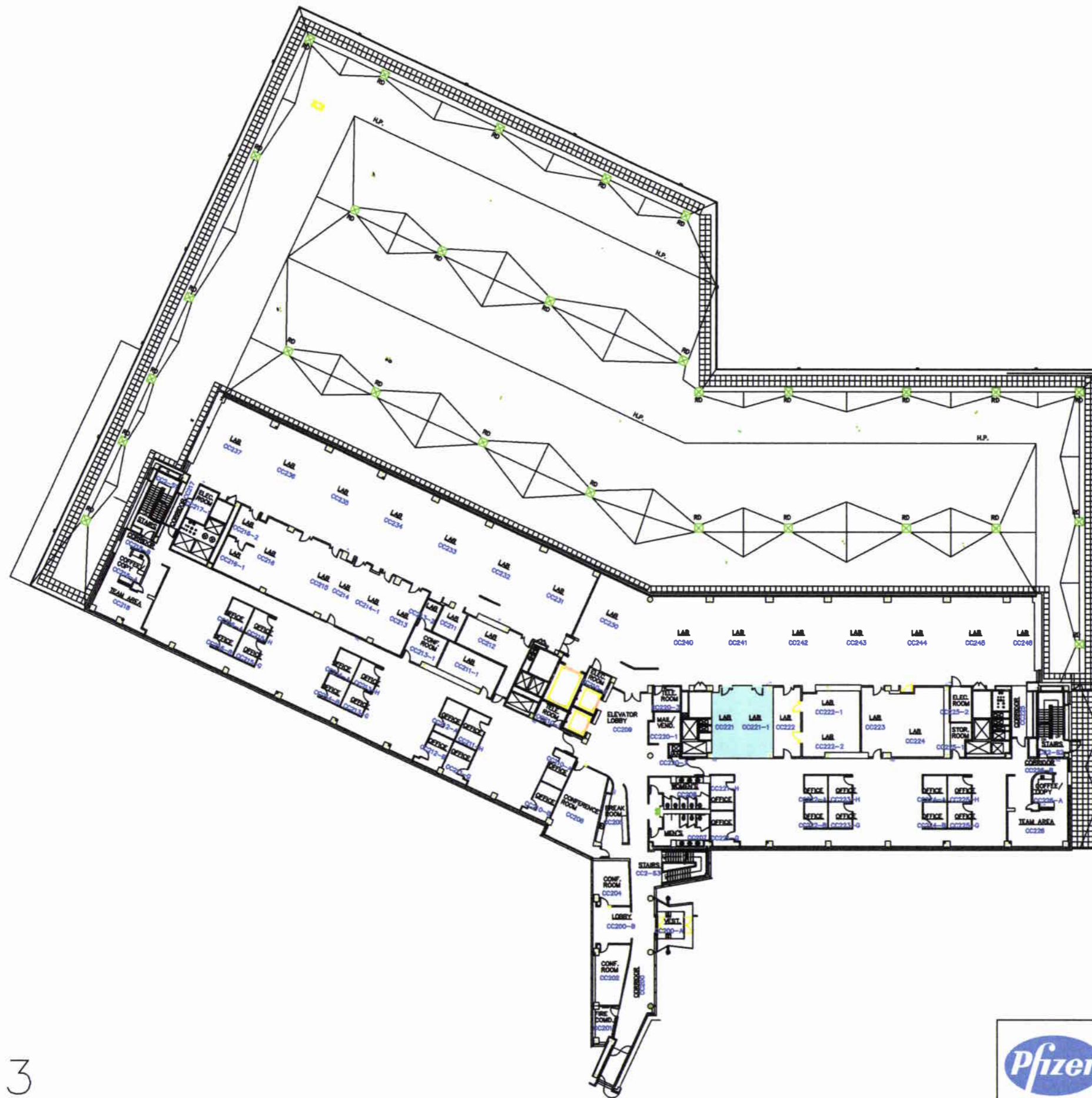
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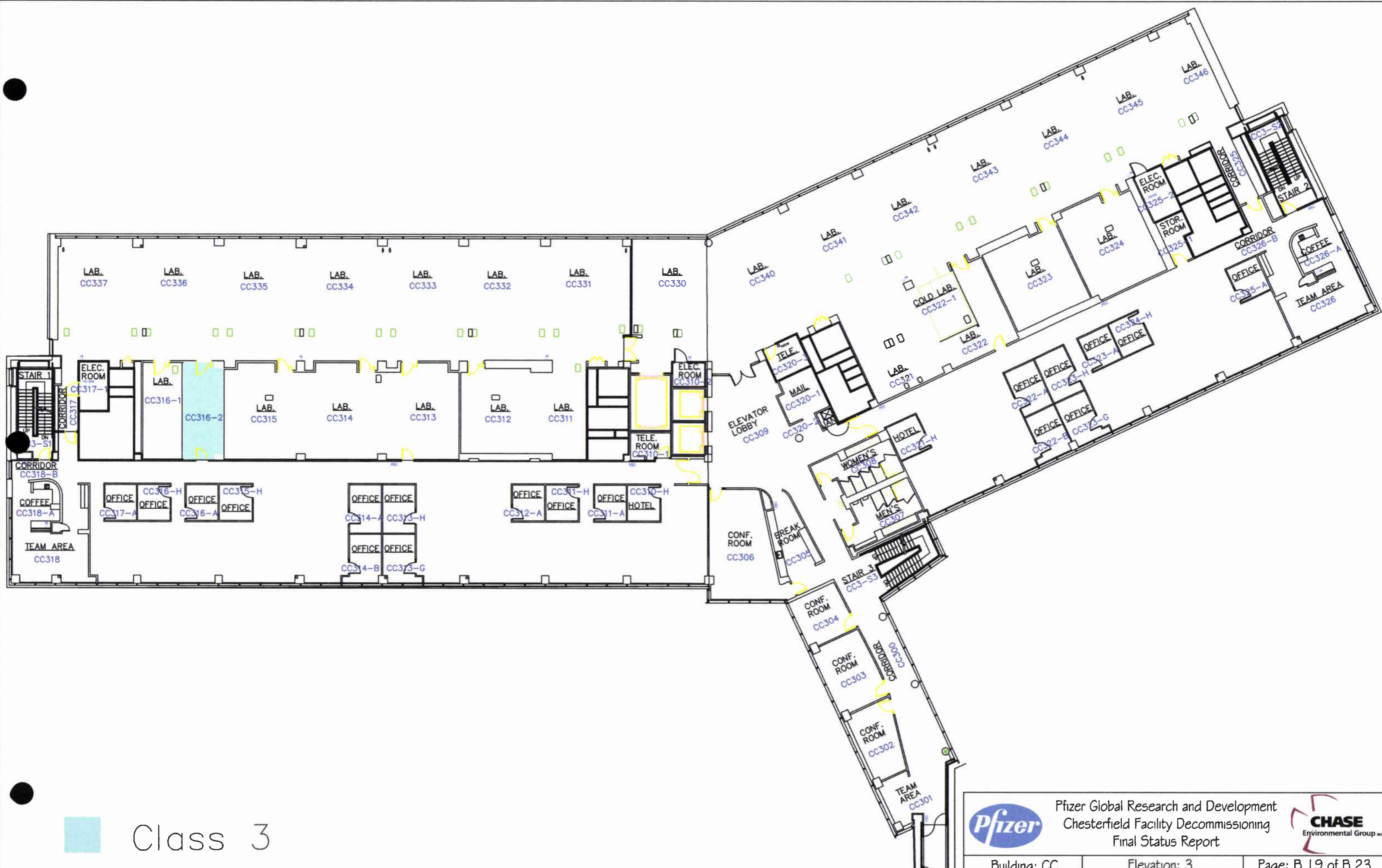


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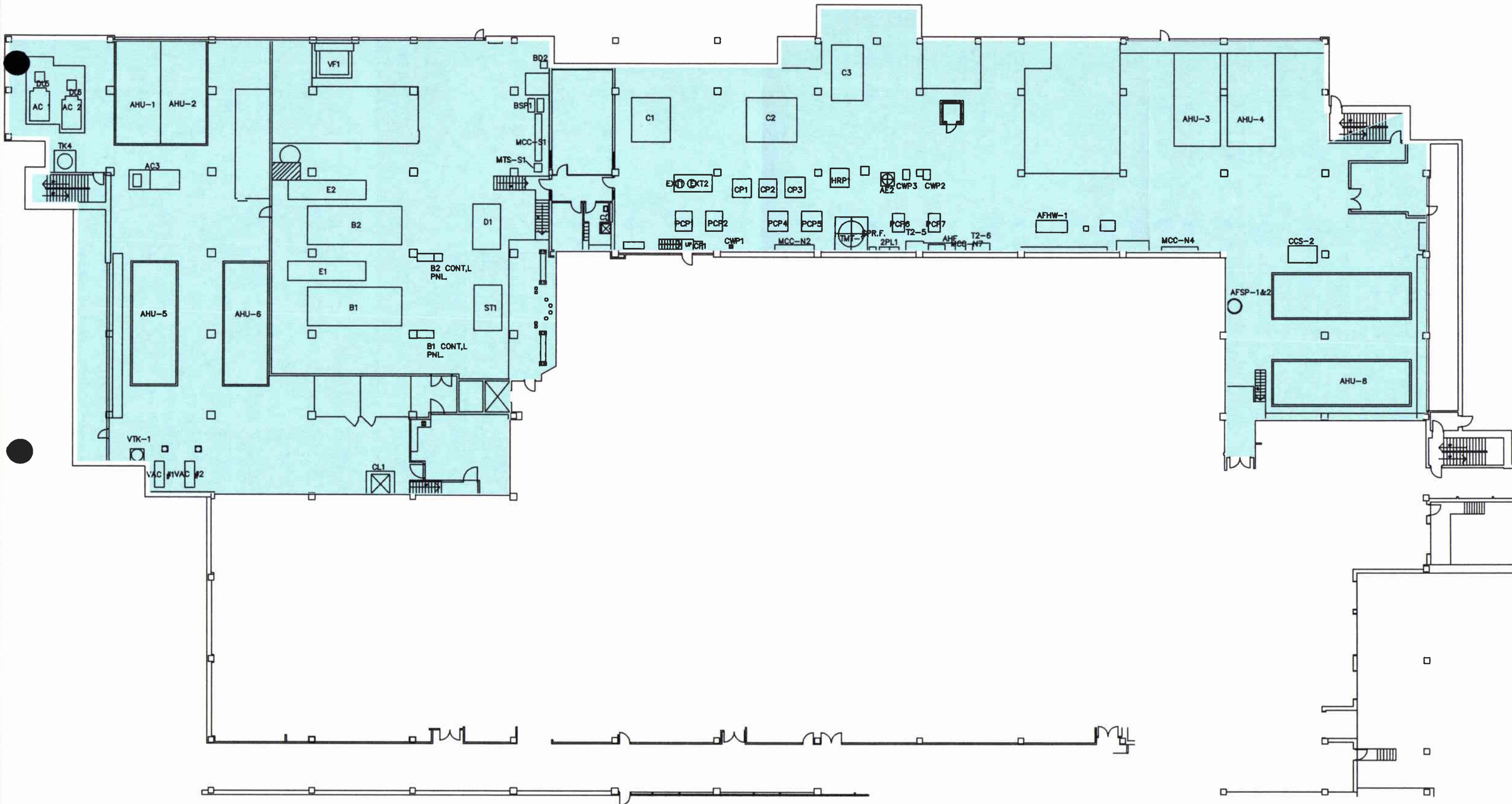
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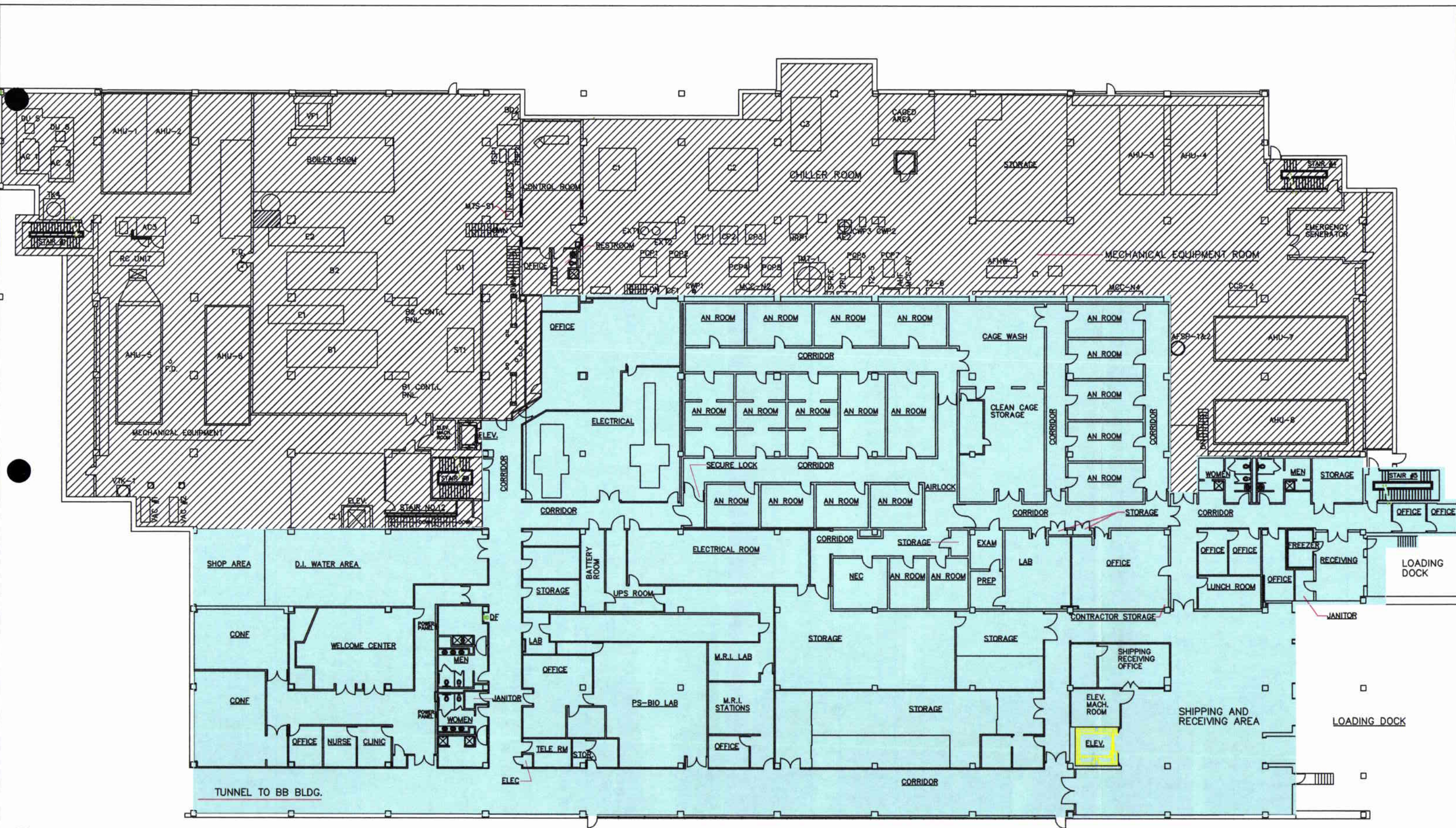


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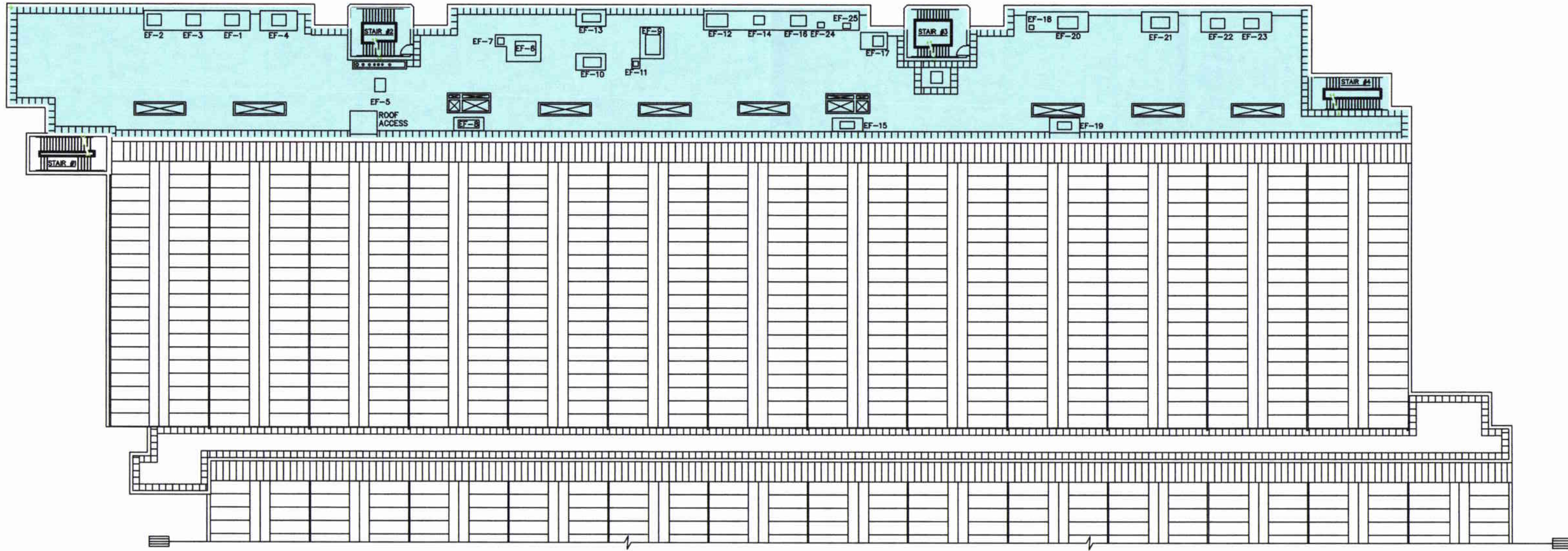
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 Final Status Report





CALIBRATION CERTIFICATE FOR

2241-3

SERIAL#

253346

Owner: CHASE ENV

DATE: 08/18/09

LOCATION: Griffin Inst

TECH: Joanne Glenn

DATE LAST CAL EXPIRES: 08/13/09

Reason For Calibration:

Due For Calibration

Repair (See Remarks)

Other (See Remarks)

Due and Repair (See Remarks)

NIST TRACEABLE EQUIPMENT USED DURING CALIBRATION

MODEL: M-500

SERIAL #: 114512

CAL. DUE: 09/05/09

MODEL:

SERIAL #:

CAL DUE:

Fast/Slow Switch working properly

Audio Response

Geotropism

CABLE LENGTH 10'

CONDITION: Sat

NEW BATTERIES:  Yes  No

BATTERY CHECK: Sat

HV TEST  N/A  Sat  Unsat

AF INPUT SENSITIVITY (mV) #1:	2.5	AL INPUT SENSITIVITY (mV) #1:	4
AF INPUT SENSITIVITY (mV) #2:	2.5	AL INPUT SENSITIVITY (mV) #2:	4
AF INPUT SENSITIVITY (mV) #3:	2.5	AL INPUT SENSITIVITY (mV) #3:	4
AF INPUT SENSITIVITY (mV) #4:	2.5	AL INPUT SENSITIVITY (mV) #4:	4

RATE CPM AS FOUND % ERROR AS LEFT % ERROR

250	251	0.4%	A.F.
2500	2498	0.1%	A.F.
25K	24.993 K	0.0%	A.F.
250K	249.955 K	0.0%	A.F.

Is the As Found Data Within 2% of the Set Point?

Yes  No

DETECTOR 1:

DETECTOR 2:

DETECTOR 3:

DETECTOR 4:

DETECTOR 1:		DETECTOR 2:		DETECTOR 3:		DETECTOR 4:	
AF 1-6	AL 1-6	AF 1-6	AL 1-6	AF 1-6	AL 1-6	AF 1-6	AL 1-6
0000 S-6	A.F.	0000 S-6	A.F.	0000 S-6	A.F.	0000 s-6	A.F.
0100 -2	A.F.	0100 -2	A.F.	0100 -2	A.F.	0100 -2	A.F.
c/	A.F.	c/	A.F.	c/	A.F.	C/	A.F.
m	A.F.	m	A.F.	m	A.F.	M	A.F.
1	A.F.	1	A.F.	1	A.F.	1	A.F.
000s	A.F.	000s	A.F.	000s	A.F.	000s	A.F.

REMARKS: See side of instrument for HV settings and detectors.

Does Instrument Meet Final Acceptance Criteria?  Yes  No

Calibration Sticker Attached?  Yes  No

Date Instrument is Due For Next Calibration: 08/18/10

INSTRUMENT MARRIED WITH

#

Performed/Reviewed by:

*Joanne Glenn*

Date: 8/18/2009

Entered by: *[Signature]* Initials



GRIFFIN INSTRUMENTS



CALIBRATION CERTIFICATE FOR 43-68 PROBE # PR216394

Owner: CHASE ENV

DATE: 08/18/09
TECH: Joanne Glenn

LOCATION: Griffin Inst
DATE LAST CAL EXPIRES: 08/13/09

REASON FOR CALIBRATION:

- Due For Calibration
Repair (See Remarks)
Other (See Remarks)
Due and Repair

CABLE LENGTH: 10' INPUT SENSITIVITY: 4 mV

NIST TRACEABLE EQUIPMENT AND STANDARDS USED DURING CALIBRATION

MODEL: 2241-3 SERIAL #: 253346 CAL. DUE: 08/18/10

NIST TRACEABLE SOURCES USED

Table with 5 columns: Source Number, Isotope, 4 pi Activity, Assay Date, 2 pi Activity. Rows include Th230, Tc99 SS, Pu239, Sr90, and C14.

Efficiencies from last cal.:

Condition: Sat Unsat

Pu: Th: 20.31% Sr:
Tc ss: 25.80% C14: 15.38% Tc Ni:

As Found (AF) Efficiencies:

Table with columns for HV/Vernier, Tc-99 Source Response Nickel (CPM), Pu-239 Source Response (CPM), Background (CPM), and Tc-99 Source Response Stainless Steel (CPM). Includes sub-columns for A ch., B ch., and Net Eff.

Table with 2 columns: Net A to B Xtalk: <10%, B to A Xtalk: <1%.

Table with columns for Pu239, Tc99 Ni, Tc99 ss, Th-230, Sr90, and C-14. Rows include AF CPM, AF 4 pi eff, and AF 2 pi eff.

Is as found efficiency within 20% of the efficiency from the last cal? Yes No (See Remarks)

Note: If the as found data is within 10% of the last calibration and the B-A Xtalk is <1% and the A-B Xtalk is <10%, then the technician may N/A the plateau section and go directly to remarks.



GRIFFIN INSTRUMENTS



PROBE #: PR216394

Date: 08/18/09

PLATEAU AND SET POINT DATA

HV / Vernier.	Tc-99 Source Response SS (CPM):			Pu-239 Source Response (CPM):			Background (CPM):		Net A to B Xtalk: <10%	B to A Xtalk: <1%
	A ch.	B ch.	Net Eff.	A ch.	B ch.	Net Eff.	A ch.	B ch.		
N/A										

Alpha / Beta Bkg (cpm)	<sup>1</sup> Pu-239	<sup>149</sup> Tc-99 Ni	Tc-99 SS	Th-230	C-14	Sr-90
HV / Vernier: 1250 / 1650	CPM: 4764		4642	4139	7662	3521
4 pi AL Efficiencies:	25.75%		25.97%	24.78%	15.40%	34.67%
2 pi AL Efficiencies:	50.72%		41.80%	50.65%	40.26%	49.59%

REMARKS:

Does Instrument Meet Final Acceptance Criteria?:  Yes  No  
 Calibration Sticker Attached?:  Yes  No  
 Date Instrument is Due For Next Calibration: 08/18/10

INSTRUMENT MARRIED WITH 2241-3 # 253348

Performed/Reviewed by:

*James Glass*

Date: 8/18/2009

Entered by: *[Signature]* Initials

2 pi efficiencies denoted in Italics.

Calibrations performed to ANSI N323A-1997 standards.



CALIBRATION CERTIFICATE FOR

2241-3

SERIAL#

253363

Owner: CHASE ENV

DATE: 04/11/10

LOCATION: Griffin Inst

TECH: Joanne Glenn

DATE LAST CAL EXPIRES: 08/04/10

Reason For Calibration:

Due For Calibration

Repair (See Remarks)

Other (See Remarks)

Due and Repair (See Remarks)

NIST TRACEABLE EQUIPMENT USED DURING CALIBRATION

MODEL: M-500

SERIAL #: 114512

CAL. DUE: 09/05/10

MODEL:

SERIAL #:

CAL DUE:

Fast/Slow Switch working properly

Audio Response

Geotroplism

CABLE LENGTH 38' 60" ALT NY 4/20/10

CONDITION: Sat

NEW BATTERIES:  Yes  No

BATTERY CHECK: Sat

HV TEST  N/A  Sat  Unsat

AF INPUT SENSITIVITY (mV) #1:	4	AL INPUT SENSITIVITY (mV) #1:	A.F.
AF INPUT SENSITIVITY (mV) #2:	N/A	AL INPUT SENSITIVITY (mV) #2:	N/A
AF INPUT SENSITIVITY (mV) #3:	N/A	AL INPUT SENSITIVITY (mV) #3:	N/A
AF INPUT SENSITIVITY (mV) #4:	N/A	AL INPUT SENSITIVITY (mV) #4:	N/A

RATE CPM AS FOUND % ERROR AS LEFT % ERROR

250	250	0.0%	A.F.
2500	2495	0.2%	A.F.
25K	24.977 K	0.1%	A.F.
250K	249.908 K	0.0%	A.F.

Is the As Found Data Within 2% of the Set Point?:

Yes  No

DETECTOR 1:

DETECTOR 2:

DETECTOR 3:

DETECTOR 4:

DETECTOR 1:		DETECTOR 2:		DETECTOR 3:		DETECTOR 4:	
AF 1-6	AL 1-6	AF 1-6	AL 1-6	AF 1-6	AL 1-6	AF 1-6	AL 1-6
0000 S-6	A.F.	0000 S-6	A.F.	0000 S-6	A.F.	0000 S-6	A.F.
0100 -2	A.F.	0100 -2	A.F.	0100 -2	A.F.	0100 -2	A.F.
c/	A.F.	c/	A.F.	c/	A.F.	c/	A.F.
m	A.F.	m	A.F.	m	A.F.	m	A.F.
1	A.F.	1	A.F.	1	A.F.	1	A.F.
000s	A.F.	000s	A.F.	000s	A.F.	000s	A.F.

REMARKS: Det 1, 43-68, PR190903, Beta; Det 2, 43-37, PR265548, Beta; Det 3, 43-68, PR190903, alpha; Det 4, 43-37, PR265548, alpha. Client requested cal.

Does Instrument Meet Final Acceptance Criteria?:  Yes  No

Calibration Sticker Attached?:  Yes  No

Date Instrument is Due For Next Calibration: 04/11/11

INSTRUMENT MARRIED WITH

#

Performed/Reviewed by:

*Joanne Glenn*

Date: 4/11/2010

Entered by: *[Signature]* Initials



# GRIFFIN INSTRUMENTS



## CALIBRATION CERTIFICATE FOR 43-68 PROBE # PR190903

Owner: CHASE ENV

DATE: 04/11/10  
TECH: Joanne Glenn

LOCATION: Griffin Inst  
DATE LAST CAL EXPIRES: 08/04/10

### REASON FOR CALIBRATION:

Due For Calibration  Repair (See Remarks)  Other (See Remarks)  Due and Repair

CABLE LENGTH: 5'

INPUT SENSITIVITY: 4 mV

### NIST TRACEABLE EQUIPMENT AND STANDARDS USED DURING CALIBRATION

MODEL: 2241-3 SERIAL #: 253363 CAL. DUE: 04/11/11

### NIST TRACEABLE SOURCES USED

Source Number	Isotope	4 pi Activity	Assay Date	2 pi Activity
00TC470-0654	Tc99 SS	17,300 dpm	06/15/09	10,800 cpm
94TH470-1593	Th230	16,700 dpm	06/16/09	8,170 cpm
2696-00	Pu239	18,500 dpm	12/02/09	9,370 cpm
2697-00	Sr90	12,200 dpm	03/01/00	8,530 cpm
PX 726	C14	48,780 dpm	01/21/08	18,660 cpm

### Efficiencies from last cal.:

Condition:  Sat  Unsat

Pu:  Th: 22.87% Sr: 43.05%  
Tc ss: 28.30% C14: 14.70% Tc Ni:

### As Found (AF) Efficiencies:

HV / Vernier:	Tc-99 Source Response Nickel (CPM):			Pu-239 Source Response (CPM):			Background (CPM):		Tc-99 Source Response Stainless Steel (CPM):		
	A ch.	B ch.	Net Eff.	A ch.	B ch.	Net Eff.	A ch.	B ch.	A ch.	B ch.	Net Eff.
1200 a/ 1700 b				4353		23.52%	1	261		5049	27.68%

Net A to B Xtalk: <10%	B to A Xtalk: <1%
------------------------	-------------------

	<u>Pu239</u>	<u>Tc99 Ni</u>	<u>Tc99 ss</u>	<u>Th-230</u>	<u>Sr90</u>	<u>C-14</u>
AF CPM:	4353		5049	3730	4270	7313
AF 4 pi eff:	23.52%		27.68%	22.33%	41.89%	14.46%
AF 2 pi eff:	46.45%		44.33%	45.64%	59.91%	37.79%

Is as found efficiency within 20% of the efficiency from the last cal?  Yes  No (See Remarks)

Note: If the as found data is within 10% of the last calibration and the B-A Xtalk is <1% and the A-B Xtalk is <10%, then the technician may N/A the plateau section and go directly to remarks.



GRIFFIN INSTRUMENTS



PROBE #: PR190903

Date: 04/11/10

PLATEAU AND SET POINT DATA

HV / Vernier:	Tc-99 Source Response SS (CPM):			Pu-239 Source Response (CPM):			Background (CPM):		Net A to B Xtalk: <10%	B to A Xtalk: <1%
	A ch.	B ch.	Net Eff.	A ch.	B ch.	Net Eff.	A ch.	B ch.		
N/A										

<u>Alpha / Beta Bkg (cpm)</u>	1	261				
<u>HV / Vernier</u>	<u>Pu-239</u>	<u>Tc-99 Ni</u>	<u>Tc-99 SS</u>	<u>Th-230</u>	<u>C-14</u>	<u>Sr-90</u>
1200 a / 1700 b	CPM: 4353		5049	3730	7313	4270
<b>4 pi AL Efficiencies:</b>	<b>23.52%</b>		<b>27.68%</b>	<b>22.33%</b>	<b>14.46%</b>	<b>41.89%</b>
<b>2 pi AL Efficiencies:</b>	<b>46.35%</b>		<b>44.33%</b>	<b>45.64%</b>	<b>37.79%</b>	<b>59.91%</b>

REMARKS: Client requested cal.

Does Instrument Meet Final Acceptance Criteria?:  Yes  No

Calibration Sticker Attached?:  Yes  No

Date Instrument is Due For Next Calibration: 04/11/11

INSTRUMENT MARRIED WITH 2241-3 # 253363

Performed/Reviewed by: *Leanne Glenn*

Date: 4/11/2010

Entered by: *AG* Initials

2 pi efficiencies denoted in Italics.

Calibrations performed to ANSI N323A-1997 standards.



CALIBRATION CERTIFICATE FOR

2241-3

SERIAL#

253363

Owner: CHASE ENV

DATE: 08/04/09

LOCATION: Griffin Inst

TECH: Joannè Glenn

DATE LAST CAL EXPIRES: 08/13/09

Reason For Calibration:

Due For Calibration

Repair (See Remarks)

Other (See Remarks)

Due and Repair (See Remarks)

NIST TRACEABLE EQUIPMENT USED DURING CALIBRATION

MODEL: M-500

SERIAL #: 114512

CAL. DUE: 09/05/09

MODEL:

SERIAL #:

CAL DUE:

Fast/Slow Switch working properly

Audio Response

Geotropism

CABLE LENGTH 6'

CONDITION: Sat

NEW BATTERIES:  Yes  No

BATTERY CHECK: Sat

HV TEST  N/A  Sat  Unsat

AF INPUT SENSITIVITY (mV) #1:	4 mV	AL INPUT SENSITIVITY (mV) #1:	A.F.
AF INPUT SENSITIVITY (mV) #2:	4 mV	AL INPUT SENSITIVITY (mV) #2:	A.F.
AF INPUT SENSITIVITY (mV) #3:	4 mV	AL INPUT SENSITIVITY (mV) #3:	A.F.
AF INPUT SENSITIVITY (mV) #4:	4 mV	AL INPUT SENSITIVITY (mV) #4:	A.F.

RATE CPM AS FOUND % ERROR AS LEFT % ERROR

250	255	2.0%	A.F.
2500	2507	0.3%	A.F.
25K	24.980 K	0.1%	A.F.
250K	249.924 K	0.0%	A.F.

Is the As Found Data Within 2% of the Set Point?:

Yes  No

DETECTOR 1:

DETECTOR 2:

DETECTOR 3:

DETECTOR 4:

AF 1-6		AL 1-6		AF 1-6		AL 1-6		AF 1-6		AL 1-6	
0000 S-6	A.F.	0000 S-6	A.F.	0000 S-6	A.F.	0000 S-6	A.F.	0000 S-6	A.F.	0000 S-6	A.F.
0100 -2	A.F.	0100 -2	A.F.	0100 -2	A.F.	0100 -2	A.F.	0100 -2	A.F.	0100 -2	A.F.
cl	A.F.	cl	A.F.	cl	A.F.	cl	A.F.	cl	A.F.	cl	A.F.
m	A.F.	m	A.F.	m	A.F.	m	A.F.	m	A.F.	m	A.F.
1	A.F.	1	A.F.	1	A.F.	1	A.F.	1	A.F.	1	A.F.
000s	A.F.	000s	A.F.	000s	A.F.	000s	A.F.	000s	A.F.	000s	A.F.

REMARKS: See side of meter for Detector, probe, and HV settings.

Does Instrument Meet Final Acceptance Criteria?:  Yes  No

Calibration Sticker Attached?:  Yes  No

Date Instrument is Due For Next Calibration: 08/04/10

INSTRUMENT MARRIED WITH

#

Performed/Reviewed by:

*Joannè Glenn*

Date: 8/4/2009

Entered by: *[Signature]* Initials





GRIFFIN INSTRUMENTS



CALIBRATION CERTIFICATE FOR 43-68 PROBE # PR190903

Owner: CHASE ENV

DATE: 08/04/09

LOCATION: Griffn Inst

TECH: Joanne Glenn

DATE LAST CAL EXPIRES: 08/13/09

REASON FOR CALIBRATION:

- Due For Calibration
- Repair (See Remarks)
- Other (See Remarks)
- Due and Repair

CABLE LENGTH: 6'

INPUT SENSITIVITY: 4 mV

NIST TRACEABLE EQUIPMENT AND STANDARDS USED DURING CALIBRATION

MODEL: 2241-3 SERIAL #: 253363 CAL. DUE: 08/04/10

NIST TRACEABLE SOURCES USED

Source Number	Isotope	4 pi Activity	Assay Date	2 pi Activity
2696-00	Pu239	18,500 dpm	07/18/06	9,390 cpm
2697-00	Sr90	12,200 dpm	03/01/00	8,530 cpm
94TH470-1593	Th230	16,700 dpm	06/16/09	8,170 cpm
00TC470-0654	Tc99 SS	17,300 dpm	06/15/09	10,800 cpm
PX 726	C-14	48,780 dpm	01/21/08	18,660 cpm

Efficiencies from last cal.:

Condition:  Sat  Unsat

Pu:  Th: 21.07% Sr:

Tc99: 25.11% C14: 14.95% Tc Ni:

As Found (AF) Efficiencies:

HV / Vernier:	Tc-99 Source Response Nickel (CPM):			Pu-239 Source Response (CPM):			Background (CPM):		Tc-99 Source Response Stainless Steel (CPM):		
	A ch.	B ch.	Net Eff.	A ch.	B ch.	Net Eff.	A ch.	B ch.	A ch.	B ch.	Net Eff.
1200 / 1700				4378		23.66%	0	293		5189	28.30%

Net A to B Xtalk: <10%	B to A Xtalk: <1%
N/A	

	Pu239	Tc99 Ni	Tc99 ss	Th-230	Sr90	C-14
AF CPM:	4378		5189	3820	4480	7462
AF 4 pi eff:	23.66%		28.30%	22.87%	43.05%	14.70%
AF 2 pi eff:	46.62%		45.33%	46.76%	61.58%	38.42%

Is as found efficiency within 20% of the efficiency from the last cal?

- Yes
- No (See Remarks)

Note: If the as found data is within 10% of the last calibration and the B-A Xtalk is <1% and the A-B Xtalk is <10%, then the technician may N/A the plateau section and go directly to remarks.



# GRIFFIN INSTRUMENTS



PROBE #: PR190903

Date: 08/04/09

## PLATEAU AND SET POINT DATA

HV / Vamier:	Tc-99 Source Response SS (CPM):			Pu-239 Source Response (CPM):			Background (CPM):		Net A to B: Xtalk: <10%	B to A Xtalk: <1%
	A ch.	B ch.	Net Eff.	A ch.	B ch.	Net Eff.	A ch.	B ch.		
N/A										

Alpha / Beta Bkg (cpm)	0	293				
HV / Vernier	Pu-239	Tc-99 Ni	Tc-99 SS	Th-230	C-14	Sr-90
1200 /1700	CPM: 4378		5189	3820	7462	4480
4 pt AL Efficiencies:	23.66%		28.30%	22.87%	14.70%	43.05%
2 pt AL Efficiencies:	46.62%		45.33%	46.76%	38.42%	61.58%

### REMARKS:

Does Instrument Meet Final Acceptance Criteria?  Yes  No

Calibration Sticker Attached?  Yes  No

Date Instrument is Due For Next Calibration: 08/04/10

INSTRUMENT MARRIED WITH

#

Performed/Reviewed by:

*Ernesto Gomez*

Date: 8/4/2009

Entered by: *P* Initials

2 pt efficiencies denoted in Italics.

Calibrations performed to ANSI-N323A-1997 standards.



CALIBRATION CERTIFICATE FOR

2241-3

SERIAL#

253346

Owner: CHASE ENV

DATE: 04/07/10

LOCATION: Griffin Inst

TECH: Joanne Glenn

DATE LAST CAL EXPIRES: 08/18/10

Reason For Calibration:

Due For Calibration

Repair (See Remarks)

Other (See Remarks)

Due and Repair (See Remarks)

NIST TRACEABLE EQUIPMENT USED DURING CALIBRATION

MODEL: M-500

SERIAL #: 114512

CAL. DUE: 09/05/10

MODEL:

SERIAL #:

CAL DUE:

Fast/Slow Switch working properly

Audio Response

Geotropism

CABLE LENGTH 5'

CONDITION: Sat

NEW BATTERIES:  Yes  No

BATTERY CHECK: Sat

HV TEST  N/A  Sat  Unsat

AF INPUT SENSITIVITY (mV) #1:	3.2	AL INPUT SENSITIVITY (mV) #1:	4.0
AF INPUT SENSITIVITY (mV) #2:	N/A	AL INPUT SENSITIVITY (mV) #2:	N/A
AF INPUT SENSITIVITY (mV) #3:	N/A	AL INPUT SENSITIVITY (mV) #3:	N/A
AF INPUT SENSITIVITY (mV) #4:	N/A	AL INPUT SENSITIVITY (mV) #4:	N/A

RATE CPM AS FOUND % ERROR AS LEFT % ERROR

250	249	0.4%	A.F.
2500	2495	0.2%	A.F.
25K	24.956 K	0.2%	A.F.
250K	249.581 K	0.2%	A.F.

Is the As Found Data Within 2% of the Set Point?:

Yes  No

DETECTOR 1:

DETECTOR 2:

DETECTOR 3:

DETECTOR 4:

AF 1-6		AL 1-6		AF 1-6		AL 1-6		AF 1-6		AL 1-6		AF 1-6		AL 1-6	
0000 S-6	A.F.	0000 S-6	A.F.	0000 S-6	A.F.	0000 S-6	A.F.	0000 S-6	A.F.	0000 S-6	A.F.	0000 S-6	A.F.	0000 S-6	A.F.
0100 -2	A.F.	0100 -2	A.F.	0100 -2	A.F.	0100 -2	A.F.	0100 -2	A.F.	0100 -2	A.F.	0100 -2	A.F.	0100 -2	A.F.
d	A.F.	d	A.F.	d	A.F.	d	A.F.	d	A.F.	d	A.F.	d	A.F.	d	A.F.
m	A.F.	m	A.F.	m	A.F.	m	A.F.	m	A.F.	m	A.F.	m	A.F.	m	A.F.
1	A.F.	1	A.F.	1	A.F.	1	A.F.	1	A.F.	1	A.F.	1	A.F.	1	A.F.
000s	A.F.	000s	A.F.	000s	A.F.	000s	A.F.	000s	A.F.	000s	A.F.	000s	A.F.	000s	A.F.

REMARKS: Det 1, 43-68, #PR285701, beta; Det 2, 43-37, #PR259902, beta; Det 3, 43-68, #PR285701, alpha; Det 4, 43-37, #PR259902, alpha

Does Instrument Meet Final Acceptance Criteria?:  Yes  No

Calibration Sticker Attached?:  Yes  No

Date Instrument is Due For Next Calibration: 04/07/11

INSTRUMENT MARRIED WITH

#

Performed/Reviewed by:

*Joanne Glenn*

Date: 4/7/2010

Entered by: *JG* Initials



# GRIFFIN INSTRUMENTS



## CALIBRATION CERTIFICATE FOR 43-37 PROBE # PR259902

Owner: CHASE ENV

DATE: 04/07/10

LOCATION: Griffin Inst

TECH: Joanne Glenn

DATE LAST CAL EXPIRES: 08/18/10

### REASON FOR CALIBRATION:

- Due For Calibration  
  Repair (See Remarks)  
  Other (See Remarks)  
  Due and Repair

CABLE LENGTH: 10'

INPUT SENSITIVITY: 4 mV

### NIST TRACEABLE EQUIPMENT AND STANDARDS USED DURING CALIBRATION

MODEL: 2241-3

SERIAL #: 253346

CAL. DUE: 04/07/11

### NIST TRACEABLE SOURCES USED

Source Number	Isotope	4 pi Activity	Assay Date	2 pi Activity
00TC470-0654	Tc99 SS	17,300 dpm	06/15/09	10,800 cpm
94TH470-1593	Th230	16,700 dpm	06/16/09	8,170 cpm
2696-00	Pu239	18,500 dpm	12/02/09	9,370 cpm
2697-00	Sr90	12,200 dpm	03/01/00	8,530 cpm
PX 726	C14	48,780 dpm	01/21/08	18,660 cpm

### Efficiencies from last cal.:

Condition:  Sat  Unsat

Pu:  Th: 23.04% Sr:

Tc ss: 27.72% C14: 16.12% Tc Ni:

### As Found (AF) Efficiencies:

HV / Vernier:	Tc-99 Source Response Nickel (CPM):			Pu-239 Source Response (CPM):			Background (CPM):		Tc-99 Source Response Stainless Steel (CPM):		
	A ch.	B ch.	Net Eff.	A ch.	B ch.	Net Eff.	A ch.	B ch.	A ch.	B ch.	Net Eff.
1300 a /1850 b				4384		23.68%	4	930		5668	27.39%

Net A to B Xtalk: <10%	B to A Xtalk: <1%
	<1%

	<u>Pu239</u>	<u>Tc99 Ni</u>	<u>Tc99 ss</u>	<u>Th-230</u>	<u>Sr90</u>	<u>C-14</u>
AF CPM:	4384		5668	3663	4930	8051
AF 4 pi eff:	23.68%		27.39%	21.91%	41.80%	14.60%
AF 2 pi eff:	46.74%		43.87%	44.79%	59.78%	38.16%

Is as found efficiency within 20% of the efficiency from the last cal?  Yes  No (See Remarks)

Note: If the as found data is within 10% of the last calibration and the B-A Xtalk is <1% and the A-B Xtalk is <10%, then the technician may N/A the plateau section and go directly to remarks



GRIFFIN INSTRUMENTS



PROBE #: PR259902

Date: 04/07/10

PLATEAU AND SET POINT DATA

HV / Vernier:	Tc-99 Source Response SS (CPM):			Pu-239 Source Response (CPM):			Background (CPM):		Net A to B Xtalk: <10%	B to A Xtalk: <1%
	A ch.	B ch.	Net Eff.	A ch.	B ch.	Net Eff.	A ch.	B ch.		
N/A										

Alpha / Beta Bkg (cpm)	4	930				
HV / Vernier	Pu-239	Tc-99 NI	Tc-99 SS	Th-230	C-14	Sr-90
1300 a / 1850 b CPM:	4384		5668	3663	8051	4930
4 pi AL Efficiencies:	23.68%		27.39%	21.91%	14.60%	41.80%
2 pi AL Efficiencies:	46.65%		43.87%	44.79%	38.16%	59.78%

REMARKS: Client requested cal.

Does Instrument Meet Final Acceptance Criteria?  Yes  No

Calibration Sticker Attached?  Yes  No

Date Instrument is Due For Next Calibration: 04/07/11

INSTRUMENT MARRIED WITH 2241-3 # 253346

Performed/Reviewed by: *Joanne Glenn*

Date: 4/7/2010

Entered by: *JP* Initials

2 pi efficiencies denoted in Italics.

Calibrations performed to ANSI N323A-1997 standards.



CALIBRATION CERTIFICATE FOR

2241-3

SERIAL#

253346

Owner: CHASE ENV

DATE: 08/18/09

LOCATION: Griffin Inst

TECH: Joanne Glenn

DATE LAST CAL EXPIRES: 08/13/09

Reason For Calibration:

- Due For Calibration, Repair (See Remarks), Other (See Remarks), Due and Repair (See Remarks)

NIST TRACEABLE EQUIPMENT USED DURING CALIBRATION

MODEL: M-500 SERIAL #: 114512 CAL. DUE: 09/05/09

- Fast/Slow Switch working properly, Audio Response, Geotropism, CABLE LENGTH 10'

CONDITION: Sat

NEW BATTERIES: Yes No BATTERY CHECK: Sat

HV TEST N/A Sat Unsat

Table with 4 columns: AF INPUT SENSITIVITY (mV) #1-4, AL INPUT SENSITIVITY (mV) #1-4. Values range from 2.5 to 4.

RATE CPM AS FOUND % ERROR AS LEFT % ERROR

Table with 5 columns: Rate (250, 2500, 25K, 250K), As Found (251, 2498, 24.993, 249.955), % Error (0.4%, 0.1%, 0.0%, 0.0%), As Left (A.F., A.F., A.F., A.F.), % Error.

Is the As Found Data Within 2% of the Set Point?:

- Yes No

DETECTOR 1:

DETECTOR 2:

DETECTOR 3:

DETECTOR 4:

Table with 8 columns: AF 1-6, AL 1-6 for each of the four detectors. Values include 0000 S-6, 0100 -2, c/, m, 1, 000s, and A.F.

REMARKS: See side of instrument for HV settings and detectors.

Does Instrument Meet Final Acceptance Criteria?: Yes No

Calibration Sticker Attached?: Yes No

Date Instrument is Due For Next Calibration: 08/18/10

INSTRUMENT MARRIED WITH

#

Performed/Reviewed by:

Joanne Glenn

Date: 8/18/2009

Entered by: Initials



CALIBRATION CERTIFICATE FOR 43-37 PROBE # PR259902

Owner: CHASE ENV

DATE: 08/18/09
TECH: Joanne Glenn

LOCATION: Griffin Inst
DATE LAST CAL EXPIRES: 08/13/09

REASON FOR CALIBRATION:

- Due For Calibration (checked)
Repair (See Remarks)
Other (See Remarks)
Due and Repair

CABLE LENGTH: 10'

INPUT SENSITIVITY: 4 mV

NIST TRACEABLE EQUIPMENT AND STANDARDS USED DURING CALIBRATION

MODEL: 2241-3 SERIAL #: 253348 CAL. DUE: 08/18/10

NIST TRACEABLE SOURCES USED

Table with 5 columns: Source Number, Isotope, 4 pi Activity, Assay Date, 2 pi Activity. Rows include Th230, Tc99 SS, Pu239, Sr90, and C14.

Efficiencies from last cal.:

Condition: Sat (checked) Unsat

Pu: [ ] Th: 19.80% Sr: [ ]
Tc ss: 25.23% C14: 15.53% Tc Ni: [ ]

As Found (AF) Efficiencies:

Table with 5 main columns: HV / Vernier, Tc-99 Source Response Nickel (CPM), Pu-239 Source Response (CPM), Background (CPM), Tc-99 Source Response Stainless Steel (CPM). Includes sub-columns for A ch., B ch., and Net Eff.

Net A to B Xtalk: <10%
B to A Xtalk: <1%

Summary table for AF CPM, AF 4 pi eff, and AF 2 pi eff for Pu239, Tc99 Ni, Tc99 ss, Th-230, Sr90, and C-14.

Is as found efficiency within 20% of the efficiency from the last cal? Yes (checked) No (See Remarks)

Note: If the as found data is within 10% of the last calibration and the B-A Xtalk is <1% and the A-B Xtalk is <10%, then the technician may N/A the plateau section and go directly to remarks.



GRIFFIN INSTRUMENTS



PROBE #: PR259902

Date: 08/18/09

PLATEAU AND SET POINT DATA

HV / Vernier:	Tc-99 Source Response SS (CPM):			Pu-239 Source Response (CPM):			Background (CPM):		Net A to B Xtalk: <10%	B to A Xtalk: <1%
	A ch.	B ch.	Net Eff.	A ch.	B ch.	Net Eff.	A ch.	B ch.		
N/A										

Alpha / Beta Bkg (cpm)	8	1233				
HV / Vernier	Pu-239	Tc-99 NI	Tc-99 SS	Th-230	C-14	Sr-90
1300 / 1850	CPM: 4429		6028	3855	9096	5475
4 pl AL Efficiencies:	23.90%		27.72%	23.04%	16.12%	43.62%
2 pl AL Efficiencies:	47.08%		44.40%	47.09%	42.14%	62.39%

REMARKS: Replaced mylar due to holes.

Does Instrument Meet Final Acceptance Criteria?  Yes  No

Calibration Sticker Attached?  Yes  No

Date Instrument is Due For Next Calibration: 08/18/10

INSTRUMENT MARRIED WITH 2241-3 # 253346

Performed/Reviewed by: *Jessica Clark*

Date: 8/18/2009

Entered by: *[Signature]* Initials

2 pl efficiencies denoted in Italics.

Calibrations performed to ANSI N323A-1997 standards.





GRIFFIN INSTRUMENTS



CALIBRATION CERTIFICATE FOR

2241-3

SERIAL#

253363

Owner: CHASE ENV

DATE: 04/11/10

LOCATION: Griffin Inst

TECH: Joanne Glenn

DATE LAST CAL EXPIRES: 08/04/10

Reason For Calibration:

Due For Calibration

Repair (See Remarks)

Other (See Remarks)

Due and Repair (See Remarks)

NIST TRACEABLE EQUIPMENT USED DURING CALIBRATION

MODEL: M-500

SERIAL #: 114512

CAL. DUE: 09/05/10

MODEL:

SERIAL #:

CAL DUE:

Fast/Slow Switch working properly

Audio Response

Geotropism

CABLE LENGTH 39

CONDITION: Sat

NEW BATTERIES:  Yes  No

BATTERY CHECK: Sat

HV TEST  N/A  Sat  Unsat

AF INPUT SENSITIVITY (mV) #1:	4	AL INPUT SENSITIVITY (mV) #1:	A.F.
AF INPUT SENSITIVITY (mV) #2:	N/A	AL INPUT SENSITIVITY (mV) #2:	N/A
AF INPUT SENSITIVITY (mV) #3:	N/A	AL INPUT SENSITIVITY (mV) #3:	N/A
AF INPUT SENSITIVITY (mV) #4:	N/A	AL INPUT SENSITIVITY (mV) #4:	N/A

RATE CPM AS FOUND % ERROR AS LEFT % ERROR

250	250	0.0%	A.F.
2500	2495	0.2%	A.F.
25K	24.977 K	0.1%	A.F.
250K	249.908 K	0.0%	A.F.

Is the As Found Data Within 2% of the Set Point?:

Yes  No

DETECTOR 1:

DETECTOR 2:

DETECTOR 3:

DETECTOR 4:

DETECTOR 1:		DETECTOR 2:		DETECTOR 3:		DETECTOR 4:	
AF 1-6	AL 1-6	AF 1-6	AL 1-6	AF 1-6	AL 1-6	AF 1-6	AL 1-6
0000 S-6	A.F.	0000 S-6	A.F.	0000 S-6	A.F.	0000 S-6	A.F.
0100 -2	A.F.	0100 -2	A.F.	0100 -2	A.F.	0100 -2	A.F.
c/	A.F.	c/	A.F.	c/	A.F.	c/	A.F.
m	A.F.	m	A.F.	m	A.F.	m	A.F.
1	A.F.	1	A.F.	1	A.F.	1	A.F.
000s	A.F.	000s	A.F.	000s	A.F.	000s	A.F.

REMARKS: Det 1, 43-68, PR190903, Beta; Det 2, 43-37, PR265548, Beta; Det 3, 43-68, PR190903, alpha; Det 4, 43-37, PR265548, alpha. Client requested cal.

Does Instrument Meet Final Acceptance Criteria?:  Yes  No

Calibration Sticker Attached?:  Yes  No

Date Instrument is Due For Next Calibration: 04/11/11

INSTRUMENT MARRIED WITH

#

Performed/Reviewed by:

*Joanne Glenn*

Date: 4/11/2010

Entered by: *[Signature]* Initials



GRIFFIN INSTRUMENTS



CALIBRATION CERTIFICATE FOR 43-37 PROBE # PR265548

Owner: CHASE ENV

DATE: 04/11/10

LOCATION: Griffin Inst

TECH: Joanne Glenn

DATE LAST CAL EXPIRES: 08/04/10

REASON FOR CALIBRATION:

- Due For Calibration, Repair (See Remarks), Other (See Remarks), Due and Repair

CABLE LENGTH: 10'

INPUT SENSITIVITY: 4 mV

NIST TRACEABLE EQUIPMENT AND STANDARDS USED DURING CALIBRATION

MODEL: 2241-3 SERIAL #: 253363 CAL. DUE: 04/11/11

NIST TRACEABLE SOURCES USED

Table with 5 columns: Source Number, Isotope, 4 pi Activity, Assay Date, 2 pi Activity. Rows include 00TC470-0654, 94TH470-1593, 2696-00, 2697-00, PX 726.

Efficiencies from last cal.:

Condition: Sat Unsat

Pu: Th: 22.60% Sr: 45.15% Tc ss: 25.02% C14: Tc Ni:

As Found (AF) Efficiencies:

Table with 5 main columns: HV / Vernier, Tc-99 Source Response Nickel (CPM), Pu-239 Source Response (CPM), Background (CPM), Tc-99 Source Response Stainless Steel (CPM). Sub-columns include A ch., B ch., Net Eff.

Table with 2 columns: Net A to B Xtalk: <10%, B to A Xtalk: <1%

Table with 6 columns: Pu239, Tc99 Ni, Tc99 ss, Th-230, Sr90, C-14. Rows include AF CPM, AF 4 pi eff, AF 2 pi eff.

Is as found efficiency within 20% of the efficiency from the last cal? Yes No (See Remarks)

Note: If the as found data is within 10% of the last calibration and the B-A Xtalk is <1% and the A-B Xtalk is <10%, then the technician may N/A the plateau section and go directly to remarks.



GRIFFIN INSTRUMENTS



PROBE #: PR265548

Date: 04/11/10

PLATEAU AND SET POINT DATA

HV / Vernier:	Tc-99 Source Response SS (CPM):			Pu-239 Source Response (CPM):			Background (CPM):		Net A to B Xtalk: <10%	B to A Xtalk: <1%
	A ch.	B ch.	Net Eff.	A ch.	B ch.	Net Eff.	A ch.	B ch.		
N/A										

Alpha / Beta Bkg (cpm)	3	900				
HV / Vernier	Pu-239	Tc-99 Ni	Tc-99 SS	Th-230	C-14	Sr-90
1200 a/ 1850 b	CPM: 4254		6017	3732	8216	5183
4 pi AL Efficiencies:	22.98%		29.58%	22.33%	15.00%	44.75%
2 pi AL Efficiencies:	45.27%		47.38%	45.64%	39.21%	64.01%

REMARKS: Replaced mylar due to hole.

Does Instrument Meet Final Acceptance Criteria?:  Yes  No

Calibration Sticker Attached?:  Yes  No

Date Instrument Is Due For Next Calibration: 04/11/11

INSTRUMENT MARRIED WITH 2241-3 # 253363

Performed/Reviewed by: *Jessie Glass*

Date: 4/11/2010

Entered by: *JG* Initials

2 pi efficiencies denoted in Italics.

Calibrations performed to ANSI N323A-1997 standards.



GRIFFIN INSTRUMENTS



CALIBRATION CERTIFICATE FOR

2241-3

SERIAL#

253363

Owner: CHASE ENV

DATE: 08/04/09

LOCATION: Griffin Inst

TECH: Joanne Glenn

DATE LAST CAL EXPIRES: 08/13/09

Reason For Calibration:

- Due For Calibration
- Other (See Remarks)

- Repair (See Remarks)
- Due and Repair (See Remarks)

NIST TRACEABLE EQUIPMENT USED DURING CALIBRATION

MODEL: M-500

SERIAL #: 114512

CAL DUE: 09/05/09

MODEL:

SERIAL #:

CAL DUE:

- Fast/Slow Switch working properly
- Audio Response
- Geotropism
- CABLE LENGTH 6'

CONDITION: Sat

NEW BATTERIES:  Yes  No

BATTERY CHECK: Sat

HV TEST  N/A  Sat  Unsat

AF INPUT SENSITIVITY (mV) #1:	4 mV	AL INPUT SENSITIVITY (mV) #1:	A.F.
AF INPUT SENSITIVITY (mV) #2:	4 mV	AL INPUT SENSITIVITY (mV) #2:	A.F.
AF INPUT SENSITIVITY (mV) #3:	4 mV	AL INPUT SENSITIVITY (mV) #3:	A.F.
AF INPUT SENSITIVITY (mV) #4:	4 mV	AL INPUT SENSITIVITY (mV) #4:	A.F.

RATE CPM AS FOUND % ERROR AS LEFT % ERROR

250	255	2.0%	A.F.
2500	2507	0.3%	A.F.
25K	24.980 K	0.1%	A.F.
250K	249.924 K	-0.0%	A.F.

Is the As Found Data Within 2% of the Set Point?:

- Yes
- No

DETECTOR 1:

DETECTOR 2:

DETECTOR 3:

DETECTOR 4:

DETECTOR 1:		DETECTOR 2:		DETECTOR 3:		DETECTOR 4:	
AF 1-6	AL 1-6	AF 1-6	AL 1-6	AF 1-6	AL 1-6	AF 1-6	AL 1-6
0000 S-6	A.F.	0000 S-6	A.F.	0000 S-6	A.F.	0000 S-6	A.F.
0100-2	A.F.	0100-2	A.F.	0100-2	A.F.	0100-2	A.F.
cl	A.F.	cl	A.F.	cl	A.F.	cl	A.F.
m	A.F.	m	A.F.	m	A.F.	m	A.F.
1	A.F.	1	A.F.	1	A.F.	1	A.F.
000s	A.F.	000s	A.F.	000s	A.F.	000s	A.F.

REMARKS: See side of meter for Detector, probe, and HV settings.

Does Instrument Meet Final Acceptance Criteria?:  Yes  No

Calibration Sticker Attached?:  Yes  No

Date Instrument is Due For Next Calibration: 08/04/10

INSTRUMENT MARRIED WITH

#

Performed/Reviewed by:

*Joanne Glenn*

Date: 8/4/2009

Entered by: *[Signature]* Initials



GRIFFIN INSTRUMENTS



CALIBRATION CERTIFICATE FOR 43-37 PROBE # PR265548

Owner: CHASE ENV

DATE: 04/11/10

LOCATION: Griffin Inst

TECH: Joanne Glenn

DATE LAST CAL EXPIRES: 08/04/10

REASON FOR CALIBRATION:

- Due For Calibration, Repair (See Remarks), Other (See Remarks), Due and Repair

CABLE LENGTH: 10'

INPUT SENSITIVITY: 4 mV

NIST TRACEABLE EQUIPMENT AND STANDARDS USED DURING CALIBRATION

MODEL: 2241-3 SERIAL #: 253363 CAL. DUE: 04/11/11

NIST TRACEABLE SOURCES USED

Table with 5 columns: Source Number, Isotope, 4 pi Activity, Assay Date, 2 pi Activity. Rows include isotopes like Tc99 SS, Th230, Pu239, Sr90, C14.

Efficiencies from last cal.:

Condition: Sat, Unsat

Pu: Th: 22.60% Sr: 45.15%

Tc ss: 25.02% C14: Tc Ni:

As Found (AF) Efficiencies:

Table with 5 main columns: HV / Vernier, Tc-99 Source Response Nickel (CPM), Pu-239 Source Response (CPM), Background (CPM), Tc-99 Source Response Stainless Steel (CPM). Sub-columns for A ch., B ch., Net Eff.

Small table with 2 columns: Net A to B Xtalk: <10%, B to A Xtalk: <1%

Table with 6 columns: Pu239, Tc99 Ni, Tc99 ss, Th-230, Sr90, C-14. Rows for AF CPM, AF 4 pi eff, AF 2 pi eff.

Is as found efficiency within 20% of the efficiency from the last cal? Yes No (See Remarks)

Note: If the as found data is within 10% of the last calibration and the B-A Xtalk is <1% and the A-B Xtalk is <10%, then the technician may N/A the table section and go directly to remarks.



GRIFFIN INSTRUMENTS



PROBE #: PR265548

Date: 04/11/10

PLATEAU AND SET POINT DATA

HV / Vernier:	Tc-99 Source Response SS (CPM):			Pu-239 Source Response (CPM):			Background (CPM):		Net A to B Xtalk: <10%	B to A Xtalk: <1%
	A ch.	B ch.	Net Eff.	A ch.	B ch.	Net Eff.	A ch.	B ch.		
N/A										

HV / Vernier	Alpha / Beta Bkg (cpm) <sup>3</sup>		900		Tc-99 SS	Th-230	C-14	Sr-90
	Pu-239	Tc-99 NI						
1200 a/ 1850 b	CPM: 4254				6017	3732	8216	5183
	4 pi AL Efficiencies: 22.98%				29.58%	22.33%	15.00%	44.75%
	2 pi AL Efficiencies: 45.27%				47.38%	45.64%	39.21%	64.01%

REMARKS: Replaced mylar due to hole.

Does Instrument Meet Final Acceptance Criteria?:  Yes  No

Calibration Sticker Attached?:  Yes  No

Date Instrument Is Due For Next Calibration: 04/11/11

INSTRUMENT MARRIED WITH 2241-3 # 253363

Performed/Reviewed by: *Jeanne Plante*

Date: 4/11/2010

Entered by: *JP* Initials

2 pi efficiencies denoted in Italics.

Calibrations performed to ANSI N323A-1997 standards.

**LUDLUM MEASUREMENTS, INC.**

501 Oak St.  
 P.O. Box 810  
 Sweetwater, Texas 79556  
 Phone: 325-235-5494 / 800-622-0828 (USA)  
 Fax: 325-235-4672  
 e-mail: ludlum@ludlums.com  
 Website: <http://www.ludlums.com>



Designer and Manufacturer  
 of  
 Scientific and Industrial  
 Instruments

## Attachment 1

2241-3 SN 267138

Efficiencies as stated are 4pi (dpm), taken at surface level less background. Efficiencies as follows:

### Efficiencies for 43-68:ALPHA(DET.1)

Source: Pu239	Th230
Source Count: 1515 cpm	1199 cpm
Background: 1 cpm	1 cpm
Efficiency: $\approx 24.5\%$ 4pi	$\approx 22.2\%$ 4pi
Source Size: 30900dpm	5390dpm
Source SN: #4337	#1619

### Efficiencies for 43-68:BETA(DET.2)

Source: Tc99	C-14	Sr90y90	Cs-137
Source Count: 8023 cpm	19408 cpm	27051 cpm	1989 cpm
Background: 179 cpm	179 cpm	179 cpm	179 cpm
Efficiency: $\approx 34.3\%$ 4pi	$\approx 6.2\%$ 4pi	$\approx 27.8\%$ 4pi	$\approx 28.0\%$
Source Size: 22900dpm	311649dpm	96501dpm	6454dpm
Source SN: #635/83	#1659	#918	#158-112

### Efficiencies for 43-37:ALPHA(DET.3)

Source: Pu239	Th230
Source Count: 7398 cpm	1709 cpm
Background: 7 cpm	7 cpm
Efficiency: $\approx 23.9\%$ 4pi	$\approx 23.3\%$ 4pi
Source Size: 30900dpm	5390dpm
Source SN: #4337	#1619

### Efficiencies for 43-37:BETA(DET.4)

Source: Tc99	C-14	Sr90y90	Cs-137
Source Count: 8491 cpm	20283 cpm	28364 cpm	2679 cpm
Background: 842 cpm	892 cpm	892 cpm	892 cpm
Efficiency: $\approx 35.1\%$ 4pi	$\approx 6.2\%$ 4pi	$\approx 28.5\%$ 4pi	$\approx 28.5\%$
Source Size: 22900dpm	311649dpm	96501dpm	6454dpm
Source SN: #635/83	#1659	#918	#158-112

Signature *Deanna Butege*

Date 2-Mar-10



Designer and Manufacturer  
of  
Scientific and Industrial  
Instruments

# CERTIFICATE OF CALIBRATION

**LUDLUM MEASUREMENTS, INC.**  
POST OFFICE BOX 810 PH. 325-235-5494  
501 OAK STREET FAX NO. 325-235-4672  
SWEETWATER, TEXAS 79556, U.S.A.

CUSTOMER CHASE ENVIRONMENTAL ORDER NO. 20148946

M. Ludlum Measurements, Inc. Model 2241-3 Serial No. 267138  
M. Ludlum Measurements, Inc. Model 43-68 Serial No. PR 285701

Cal. Date 2-Mar-10 Cal Due Date 2-Mar-11 Cal. Interval 1 Year Meterface NA

Check mark  applies to applicable instr. and/or detector IAW mfg. spec. T. 71 °F RH 25 % Alt 706.8 mm Hg

- New Instrument Instrument Received  Within Toler. +-10%  10-20%  Out of Tol.  Requiring Repair  Other-See comments
- Mechanical ck.  Meter Zeroed  Background Subtract  Input Sens. Linearity
- F/S Resp. ck  Reset ck.  Window Operation
- Audio ck.  Alarm Setting ck.  Batt. ck. (Min. Volt) 2.2 VDC
- Calibrated in accordance with LMI SOP 14.8 rev 12/05/89.  Calibrated in accordance with LMI SOP 14.9 rev 02/07/97.

Instrument Volt Set Comments V Input Sens. 4 mV Def. Oper. Comments V at 4 mV Threshold Dial Ratio          =          mV

**COMMENTS:**

Det. 1 (cpm)	Det. 2 (cpm)	Det. 3 (cpm)	Det. 4 (cpm)
Detector&Color: 43-68 (alpha) <i>red</i>	43-68 (beta) <i>red</i>	43-37 (alpha) <i>yellow</i>	43-37 (beta) <i>yellow</i>
Deadtime Correction: 5µSec	5µSec	5µSec	5µSec
Calibration Constant: 100e-2	100e-2	100e-2	100e-2
Ratemeter Alarm: 50.0kcpm	50.0kcpm	50.0kcpm	50.0kcpm
Ratemeter Alert: 20.0kcpm	20.0kcpm	20.0kcpm	20.0kcpm
High voltage: <u>1250</u> v	<u>1650</u> v	<u>1700</u> v	<u>1750</u> v

CALIBRATED WITH 10 FT CABLE.  
FIRMWARE#: P-10-12

Gamma Calibration: GM detectors positioned perpendicular to source except for M 44-9 in which the front of probe faces source.

RANGE/MULTIPLIER	REFERENCE CAL. POINT	INSTRUMENT REC'D "AS FOUND READING"	INSTRUMENT METER READING*
Digital			
Digital			

\*Uncertainty within ± 10% C.F. within ± 20% Range(s) Calibrated Electronically

REFERENCE CAL. POINT	INSTRUMENT RECEIVED	INSTRUMENT METER READING*	REFERENCE CAL. POINT	INSTRUMENT RECEIVED	INSTRUMENT METER READING*
800K cpm		799 kcpm	800K cpm		79964 (10)
200K cpm		199 kcpm	200K cpm		19942 (10)
80K cpm		79.9 kcpm	80K cpm		7996 (10)
20K cpm		19.9 kcpm	20K cpm		1994 (10)
8K cpm		7.99 kcpm	8K cpm		800 (10)
2K cpm		1.99 kcpm	2K cpm		200 (10)
800 cpm		799 cpm	800 cpm		80 (10)
200 cpm		199 cpm	200 cpm		20 (10)

Ludlum Measurements, Inc. certifies that the above instrument has been calibrated by standards traceable to the National Institute of Standards and Technology, or to the calibration facilities of other International Standards Organization members, or have been derived from accepted values of natural physical constants or have been derived by the ratio type of calibration techniques. The calibration system conforms to the requirements of ANSI/NCSL Z540-1-1994 and ANSI N323-1978. State of Texas Calibration License No. LO-1963

**Reference Instruments and/or Sources:**

- 73410  1131  781  059  280  60646  70897
- Cs-137 Gamma S/N  1162  G112  M565  5105  T1008  T879  E552  E551  720  734  1616  Neutron Am-241 Be S/N T-304
- Alpha S/N Pu239 #4337  Beta S/N Tc99 #635/83  Other
- 1500 S/N 38120  Oscilloscope S/N           Multimeter S/N 84260131

Calibrated By: Lenna Ortega Date 2-Mar-10  
Reviewed By: Diana Ortega Date 2-Mar-10





**LUDLUM MEASUREMENTS, INC.**

501 Oak St.  
 P.O. Box 810  
 Sweetwater, Texas 79556  
 Phone: 325-235-5494 / 800-622-0828 (USA)  
 Fax: 325-235-4672  
 e-mail: [ludlum@ludlums.com](mailto:ludlum@ludlums.com)  
 Website: <http://www.ludlums.com>



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## Attachment 1

2241-3 SN 267115

Efficiencies as stated are 4pi (dpm), taken at surface level less background. Efficiencies as follows:

### Efficiencies for 43-68:ALPHA(DET.1)

Source: Pu239	Th230
Source Count: <del>775</del> cpm	1112 cpm
Background: 1 cpm	1 cpm
Efficiency: $\approx 25.1\%$ 4pi	$\approx 14.3\%$ 4pi
Source Size: 30900dpm	5390dpm
Source SN: #4337	#1619

### Efficiencies for 43-68:BETA(DET.2)

Source: Tc99	C-14	Sr90y90	Cs-137
Source Count: <del>8806</del> cpm	<del>21086</del> <sup>10</sup> cpm - 21088 cpm	32217 cpm	20889 cpm
Background: 257 cpm	257 cpm	257 cpm	257 cpm
Efficiency: $\approx 37.3\%$ 4pi	$\approx 6.7\%$ 4pi	$\approx 33.1\%$ 4pi	$\approx 28.3\%$
Source Size: 22900dpm	311649dpm	96501dpm	6454dpm
Source SN: #635/83	#1659	#918	#158-112

### Efficiencies for 43-37:ALPHA(DET.3)

Source: Pu239	Th230
Source Count: <del>1372</del> cpm	1140 cpm
Background: 5 cpm	5 cpm
Efficiency: $\approx 23.8\%$ 4pi	$\approx 21.1\%$ 4pi
Source Size: 30900dpm	5390dpm
Source SN: #4337	#1619

### Efficiencies for 43-37:BETA(DET.4)

Source: Tc99	C-14	Sr90y90	Cs-137
Source Count: <del>9394</del> cpm	20419 cpm	29994 cpm	2772 cpm
Background: 1012 cpm	1012 cpm	1012 cpm	1012 cpm
Efficiency: $\approx 36.6\%$ 4pi	$\approx 6.3\%$ 4pi	$\approx 30.0\%$ 4pi	$\approx 27.2\%$
Source Size: 22900dpm	311649dpm	96501dpm	6454dpm
Source SN: #635/83	#1659	#918	#158-112

Signature \_\_\_\_\_

*Deanna Bates*

Date 2-Mar-10





GRIFFIN INSTRUMENTS



CALIBRATION CERTIFICATE FOR

2241-3

SERIAL#

253351

Owner: CHASE ENV

DATE: 08/04/09

LOCATION: Griffin Inst

Griffin Inst

TECH: Joanne Glenn

DATE LAST CAL EXPIRES: 08/13/09

08/13/09

Reason For Calibration:

Due For Calibration

Repair (See Remarks)

Other (See Remarks)

Due and Repair (See Remarks)

NIST TRACEABLE EQUIPMENT USED DURING CALIBRATION

MODEL: M-500

SERIAL #: 114512

CAL DUE: 09/05/09

MODEL:

SERIAL #:

CAL DUE:

Fast/Slow Switch working properly.

Audio Response

Geotroplism

CABLE LENGTH 6'

CONDITION: Sat

NEW BATTERIES:  Yes  No

BATTERY CHECK: Sat

HV TEST  N/A  Sat  Unsat

AF INPUT SENSITIVITY (mV) #1:	2.2 mV	AL INPUT SENSITIVITY (mV) #1:	4 mV
AF INPUT SENSITIVITY (mV) #2:	2.2 mV	AL INPUT SENSITIVITY (mV) #2:	4 mV
AF INPUT SENSITIVITY (mV) #3:	2.2 mV	AL INPUT SENSITIVITY (mV) #3:	4 mV
AF INPUT SENSITIVITY (mV) #4:	2.2 mV	AL INPUT SENSITIVITY (mV) #4:	4 mV

RATE CPM AS FOUND % ERROR AS LEFT % ERROR

250	252	0.8%	A.F.
2500	2503	0.1%	A.F.
25K	24.992 K	0.0%	A.F.
250K	249.902 K	0.0%	A.F.

Is the As Found Data Within 2% of the Set Point?:

Yes  No

DETECTOR 1:

DETECTOR 2:

DETECTOR 3:

DETECTOR 4:

DETECTOR 1:		DETECTOR 2:		DETECTOR 3:		DETECTOR 4:	
AF 1-6	AL 1-6	AF 1-6	AL 1-6	AF 1-6	AL 1-6	AF 1-6	AL 1-6
0000 S-6	A.F.	0000 S-6	A.F.	0000 S-6	A.F.	0000 S-6	A.F.
0100 -2	A.F.	0100 -2	A.F.	0100 -2	A.F.	0100 -2	A.F.
c/	A.F.	c/	A.F.	c/	A.F.	c/	A.F.
m	A.F.	m	A.F.	m	A.F.	m	A.F.
1	A.F.	1	A.F.	1	A.F.	1	A.F.
000s	A.F.	000s	A.F.	000s	A.F.	000s	A.F.

REMARKS: See side of meter for detector, probe, and HV settings.

Does Instrument Meet Final Acceptance Criteria?  Yes  No

Calibration Sticker Attached?  Yes  No

Date Instrument is Due For Next Calibration: 08/04/10

INSTRUMENT MARRIED WITH

#

Performed/Reviewed by:

*Joanne Glenn*

Date: 8/4/2009

Entered by *[Signature]* Initials



GRIFFIN INSTRUMENTS



**CALIBRATION CERTIFICATE FOR 43-37 PROBE # PR265548**

Owner: CHASE ENV

DATE: 08/04/09 LOCATION: Griffin Inst  
TECH: Joanne Glenn DATE LAST CAL EXPIRES: 08/13/09

REASON FOR CALIBRATION:

- Due For Calibration  Repair (See Remarks)  Other (See Remarks)  Due and Repair

CABLE LENGTH: 6' INPUT SENSITIVITY: 4 mV

NIST TRACEABLE EQUIPMENT AND STANDARDS USED DURING CALIBRATION

MODEL: 2241-3 SERIAL #: 253363 CAL. DUE: 08/04/10

NIST TRACEABLE SOURCES USED

Source Number	Isotope	4 pi Activity	Assay Date	2 pi Activity
00TC470-0654	Tc99 SS	17,300 dpm	06/15/09	10,800 cpm
94TH470-1593	Th230	16,700 dpm	06/18/09	8,170 cpm
2696-00	Pu239	18,500 dpm	07/18/06	9,390 cpm
2697-00	Sr90	12,200 dpm	03/01/00	8,530 cpm
PX.726	C-14	48,780 dpm	01/21/08	18,660 cpm

Efficiencies from last cal.:

Condition:  Sat  Unsat  
Pu:  Th: 22.03% Sr:   
Tc ss: 26.32% C14: 17.13% Tc Ni:

As Found (AF) Efficiencies:

HV / Verier:	Tc-99 Source Response NiRel. (CPM):			Pu-239 Source Response (CPM):			Background (CPM):		Tc-99 Source Response, Stainless Steel (CPM):			
	A ch.	B ch.	Net Eff.	A ch.	B ch.	Net Eff.	A ch.	B ch.	A ch.	B ch.	Net Eff.	
1200 / 1850				4310		23.28%	7	1238			5567	25.02%

Net A to B Xtalk: <10%	B to A Xtalk: <1%
	<1%

	Pu239	Tc99 Ni	Tc99 ss	Th-230	Sr90	C-14
AF CPM:	4310		5567	3781	5629	9284
AF 4 pi eff:	23.26%		25.02%	22.60%	45.15%	16.49%
AF 2 pi eff:	45.83%		40.08%	46.19%	64.58%	43.12%

Is as found efficiency within 20% of the efficiency from the last cal?  Yes  No (See Remarks)

Note: If the as found data is within 10% of the last calibration and the B-A Xtalk is <1% and the A-B Xtalk is <10%, then the technician may N/A the plateau section and go directly to remarks.



GRIFFIN INSTRUMENTS



PROBE #: PR265548

Date: 08/04/09

PLATEAU AND SET POINT DATA

HV / Vernier:	Tc-99 Source Response SS (CPM):			Pu-239 Source Response (CPM):			Background (CPM):		Net A to B Xtalk: <10%	B to A Xtalk: <1%
	A ch.	B ch.	Net Eff.	A ch.	B ch.	Net Eff.	A ch.	B ch.		
N/A										

Alpha / Beta Bkg (cpm)	7	1238				
HV / Vernier	Pu-239	Tc-99 Ni	Tc-99 SS	Th-230	C-14	Sr-90
1200 / 1850	CPM: 4310		5587	3781	9284	5829
4 pl AL Efficiencies:	23.26%		25.02%	22.60%	16.49%	45.18%
2 pl AL Efficiencies:	45.83%		40.08%	46.79%	43.72%	64.58%

REMARKS: See side of meter for Detector, probe, and HV settings.

Does Instrument Meet Final Acceptance Criteria?  Yes  No

Calibration Sticker Attached?  Yes  No

Date Instrument is Due For Next Calibration: 08/04/10

INSTRUMENT MARRIED WITH

Performed/Reviewed by:

*Ernie Clark*

Date: 8/4/2009

Entered by: *EP* Initials

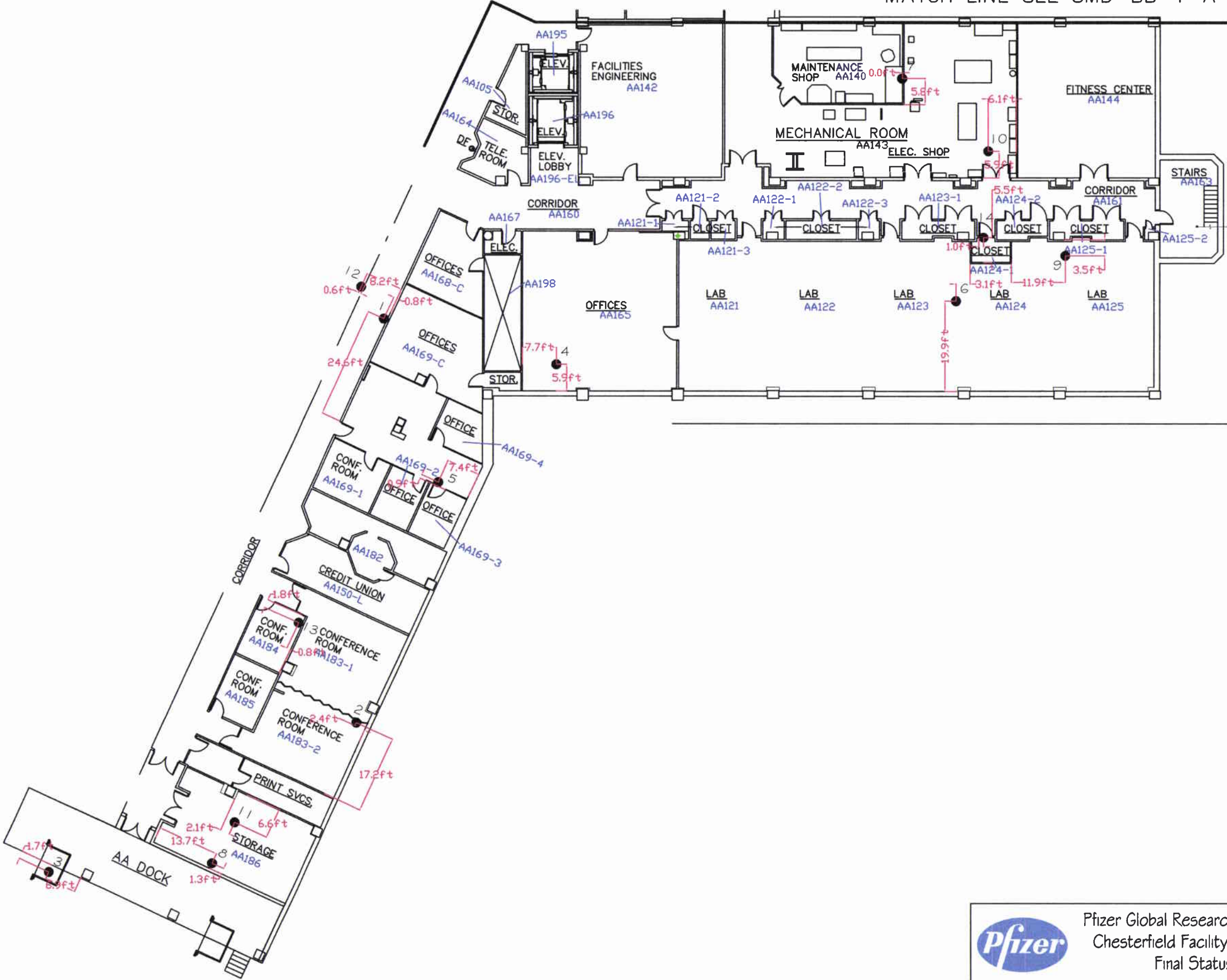
2 pl efficiencies quoted in Ballois.

Calibrations performed to ANSI N323A-1997 standards.

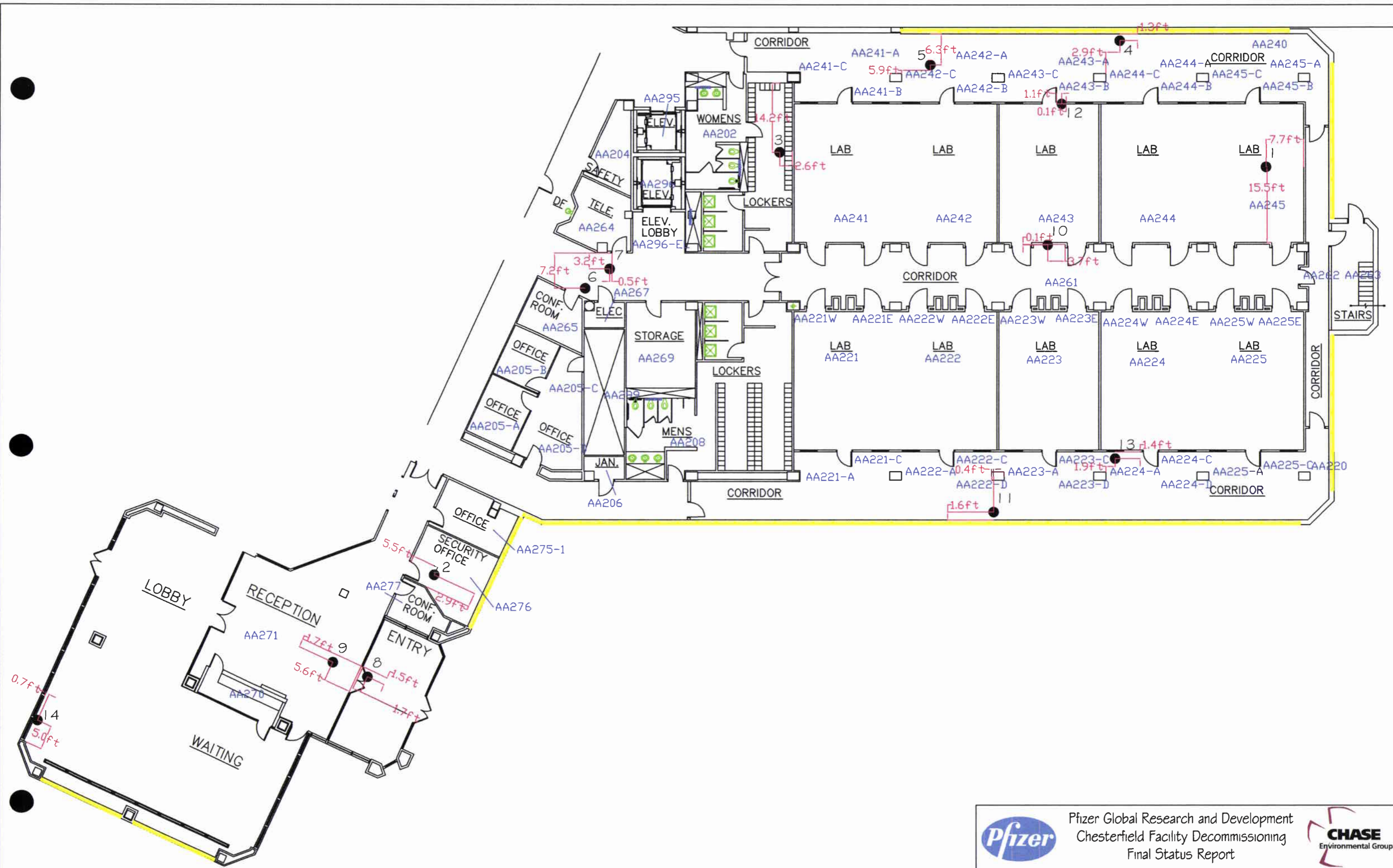










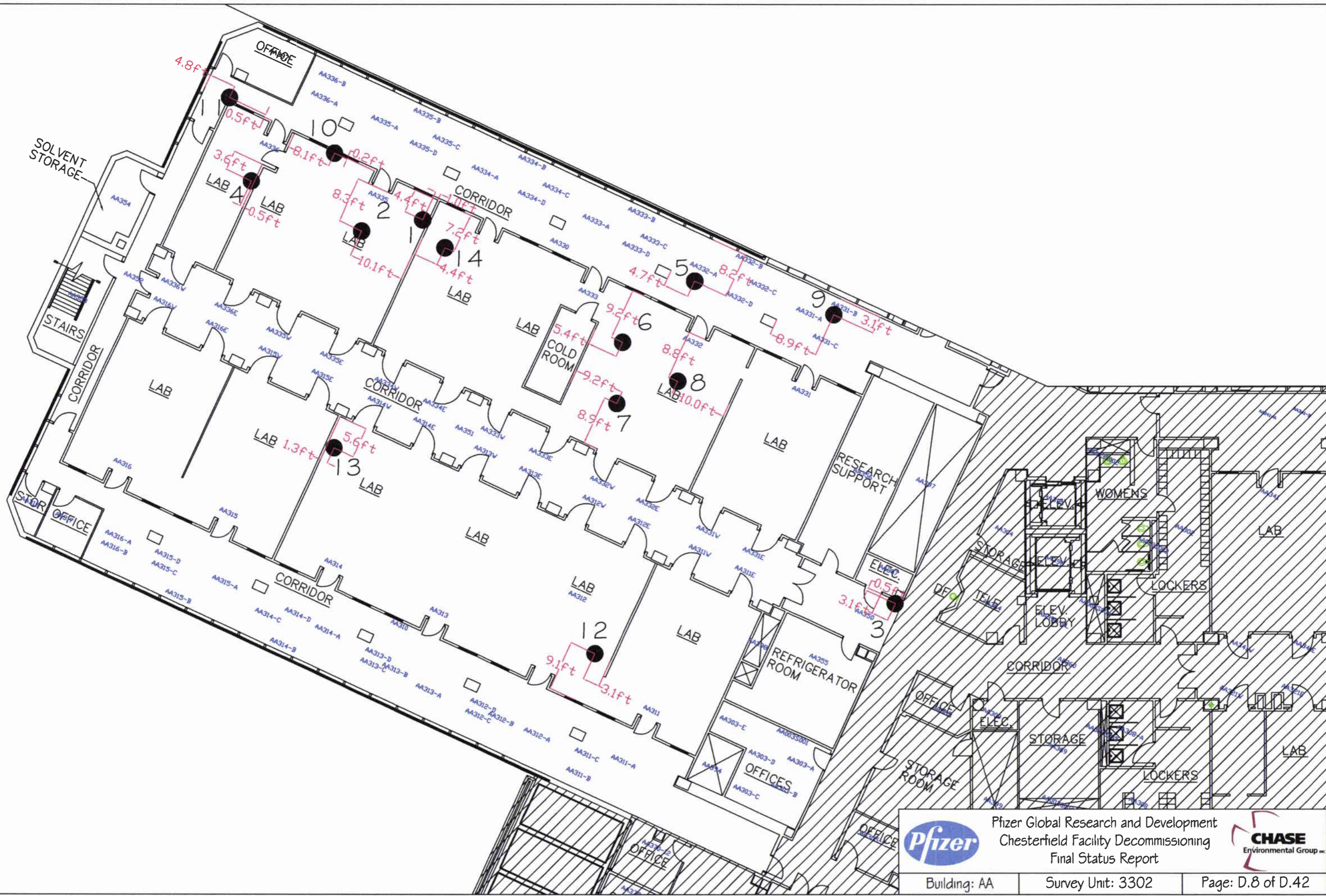


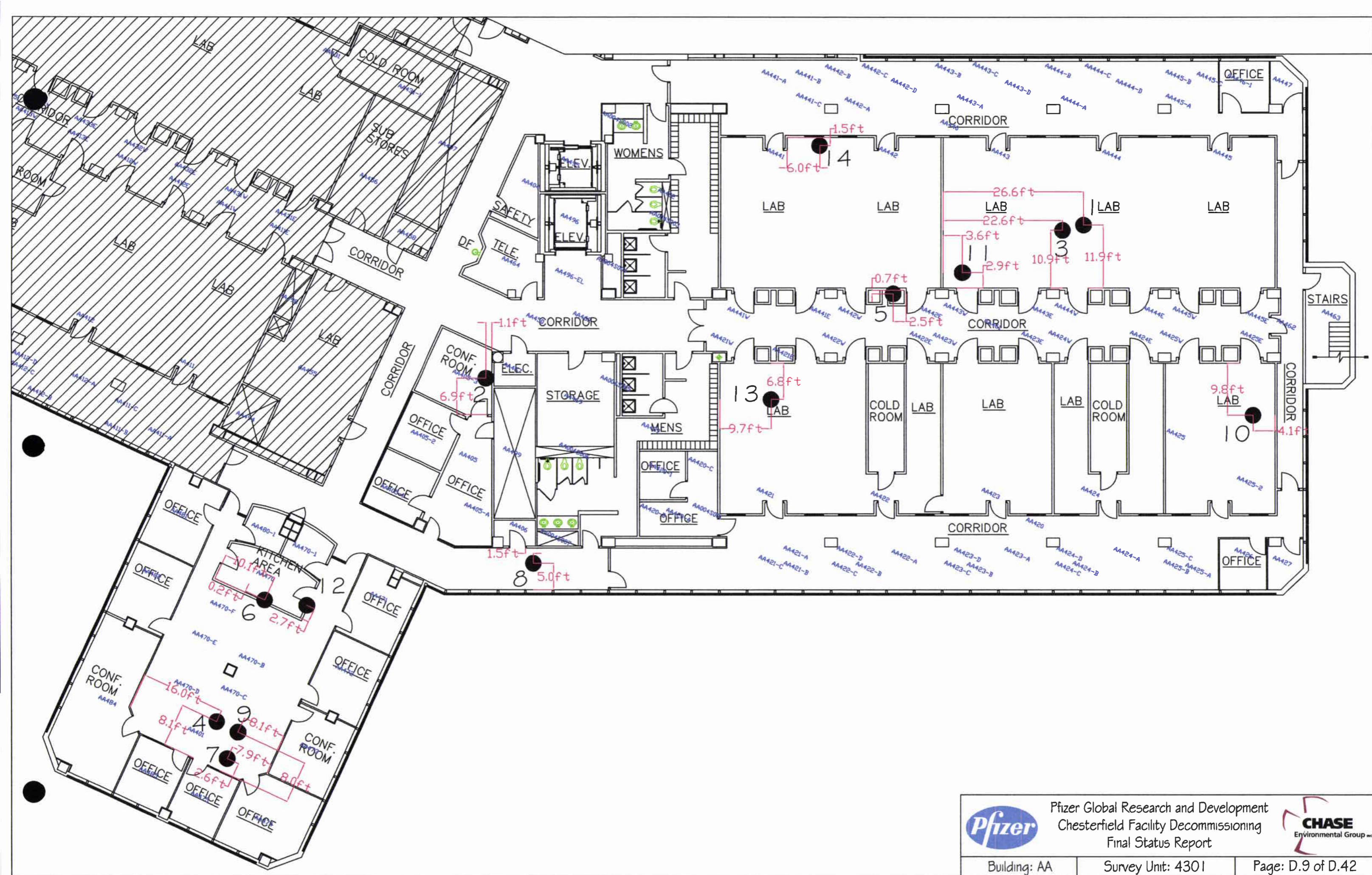
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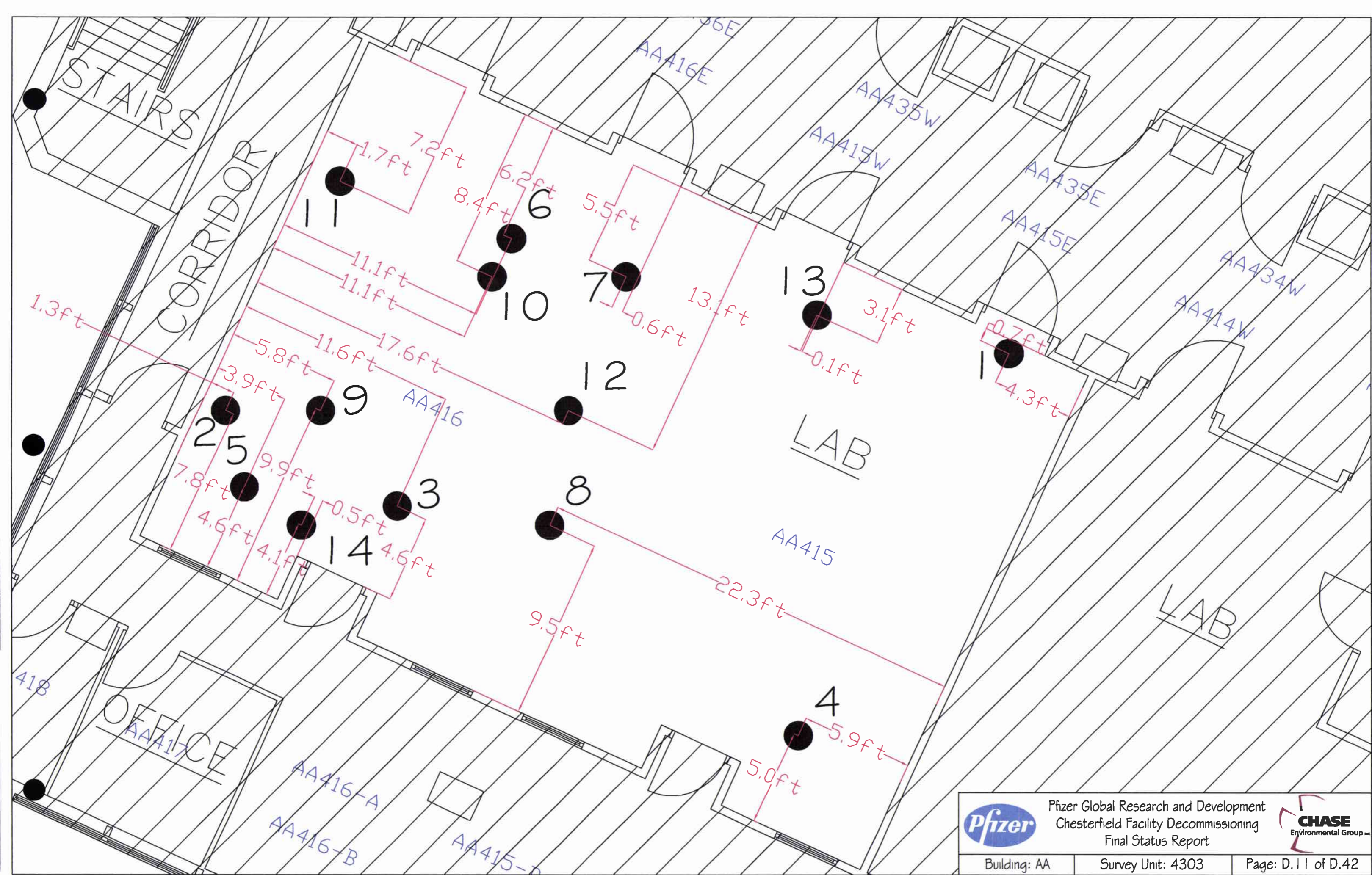








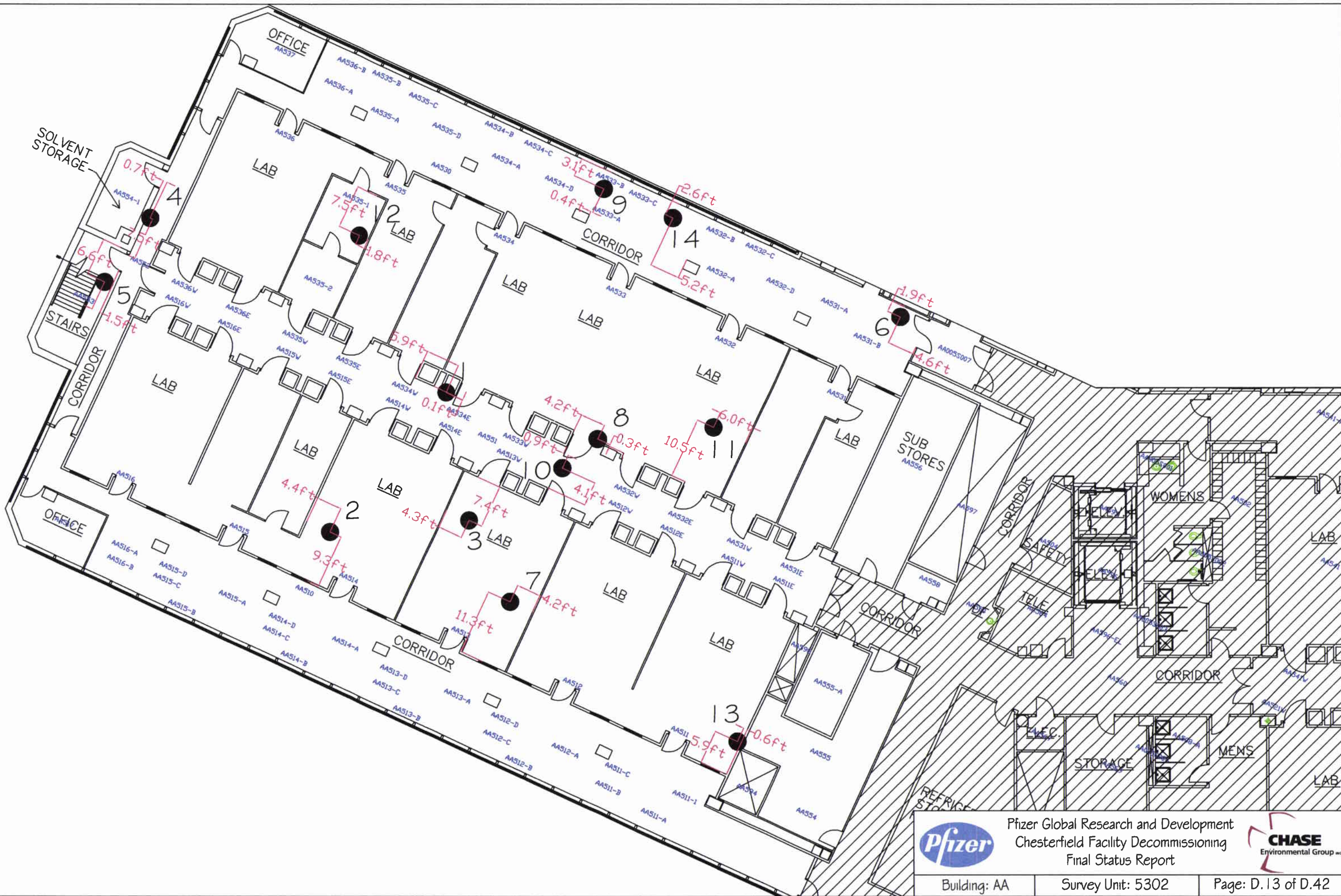




Pfizer Global Research and Development  
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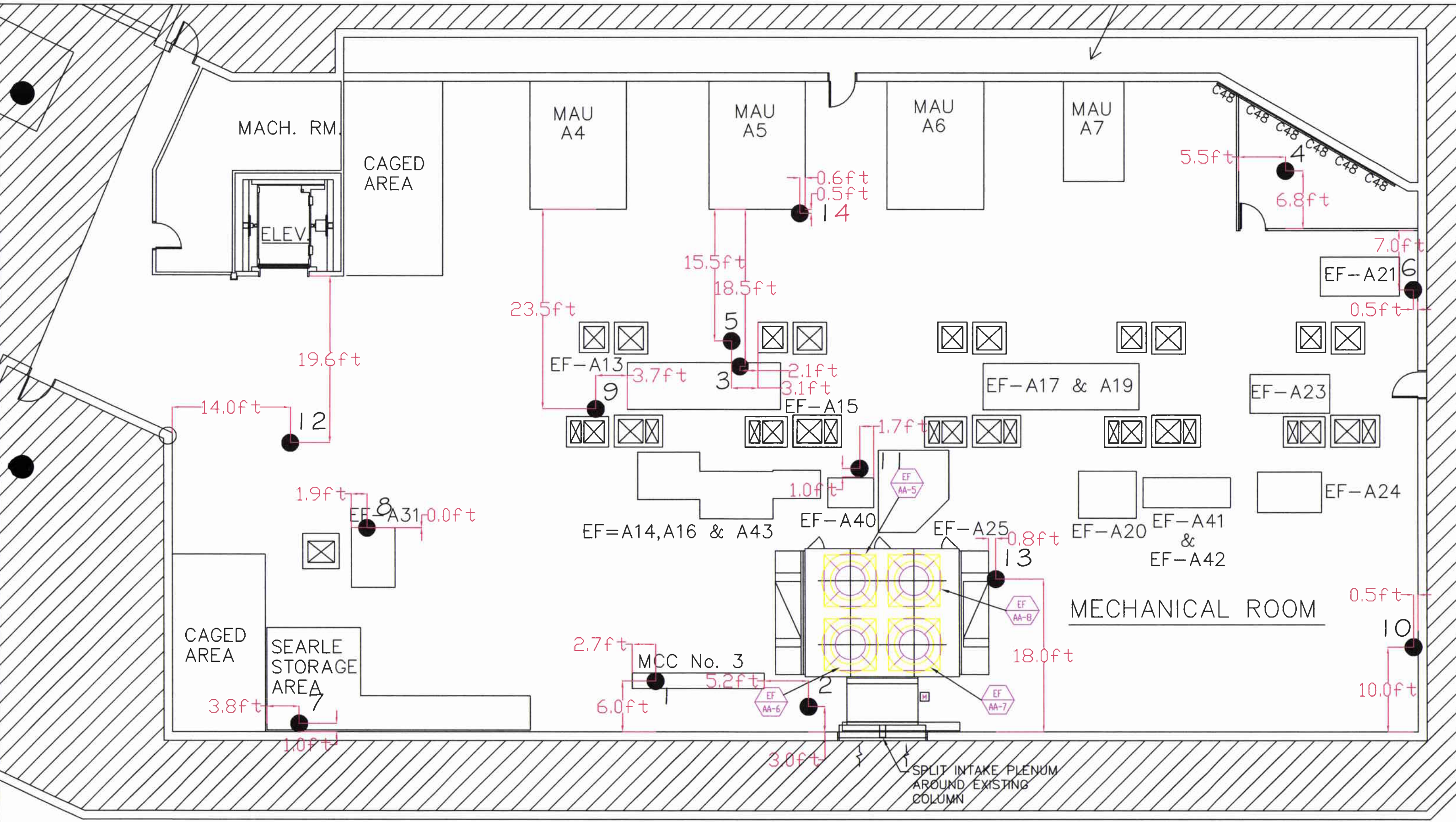




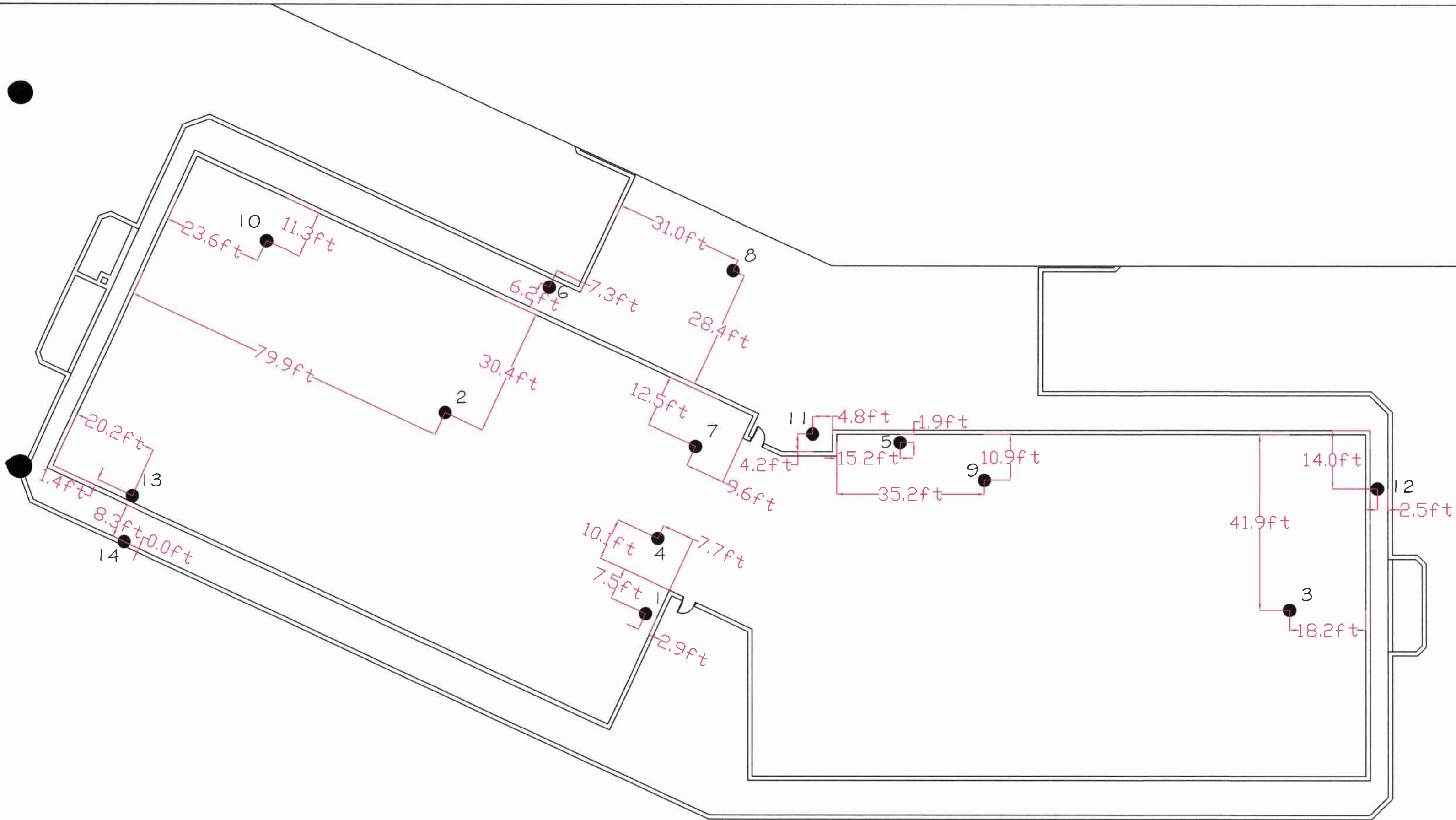


Pfizer Global Research and Development  
 Chesterfield Facility Decommissioning  
 Final Status Report









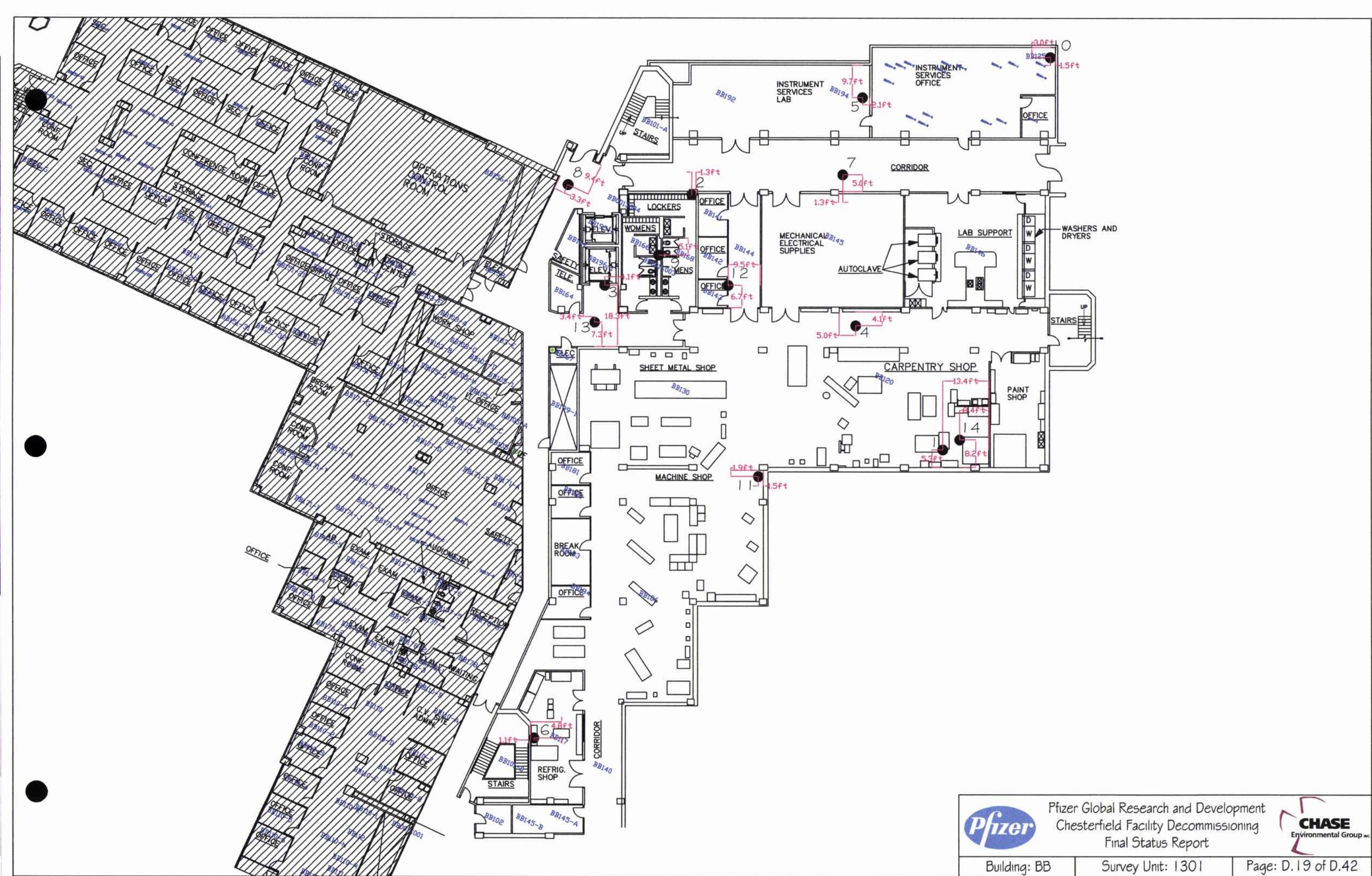




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 Chesterfield Facility Decommissioning  
 Final Status Report





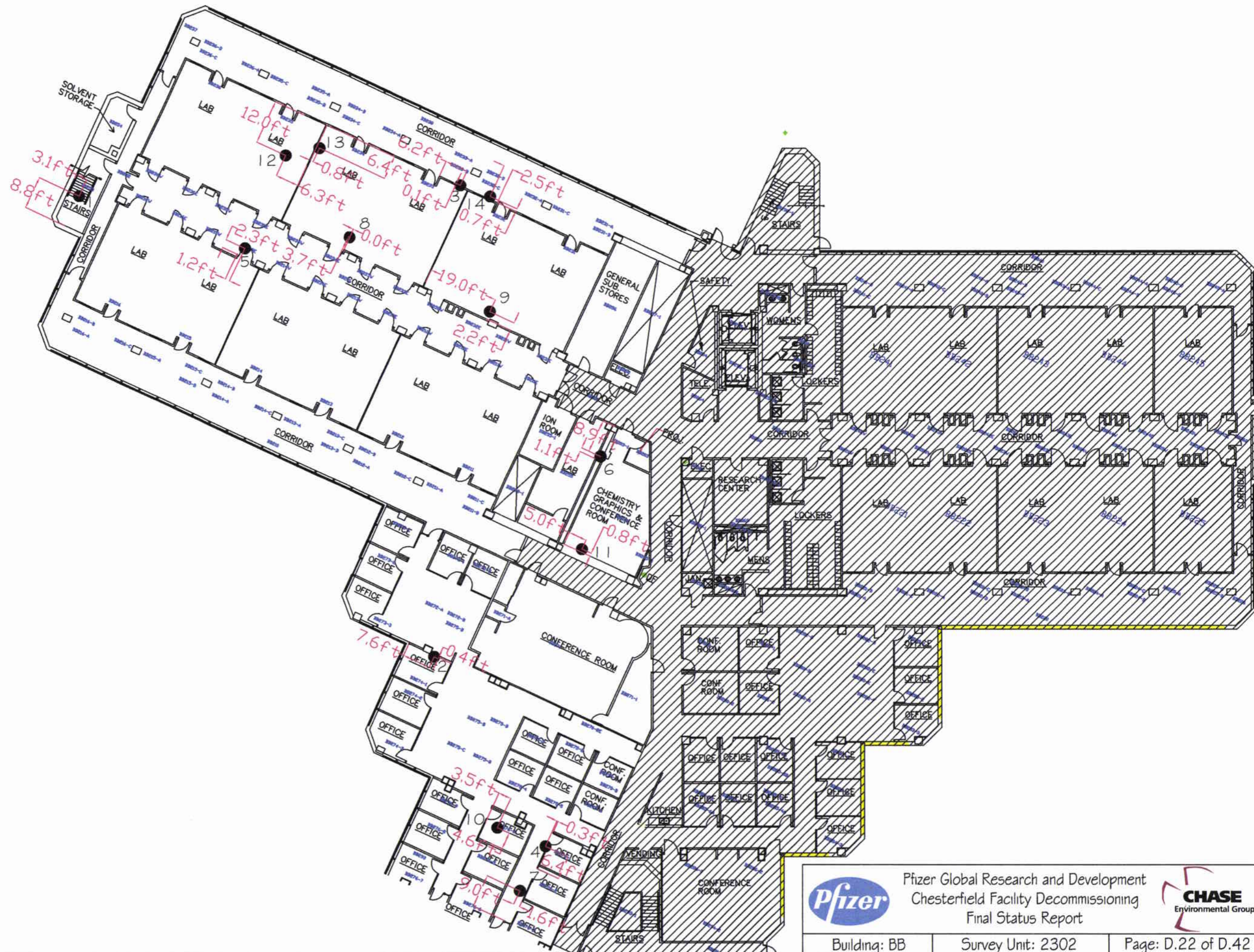


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 Chesterfield Facility Decommissioning  
 Final Status Report



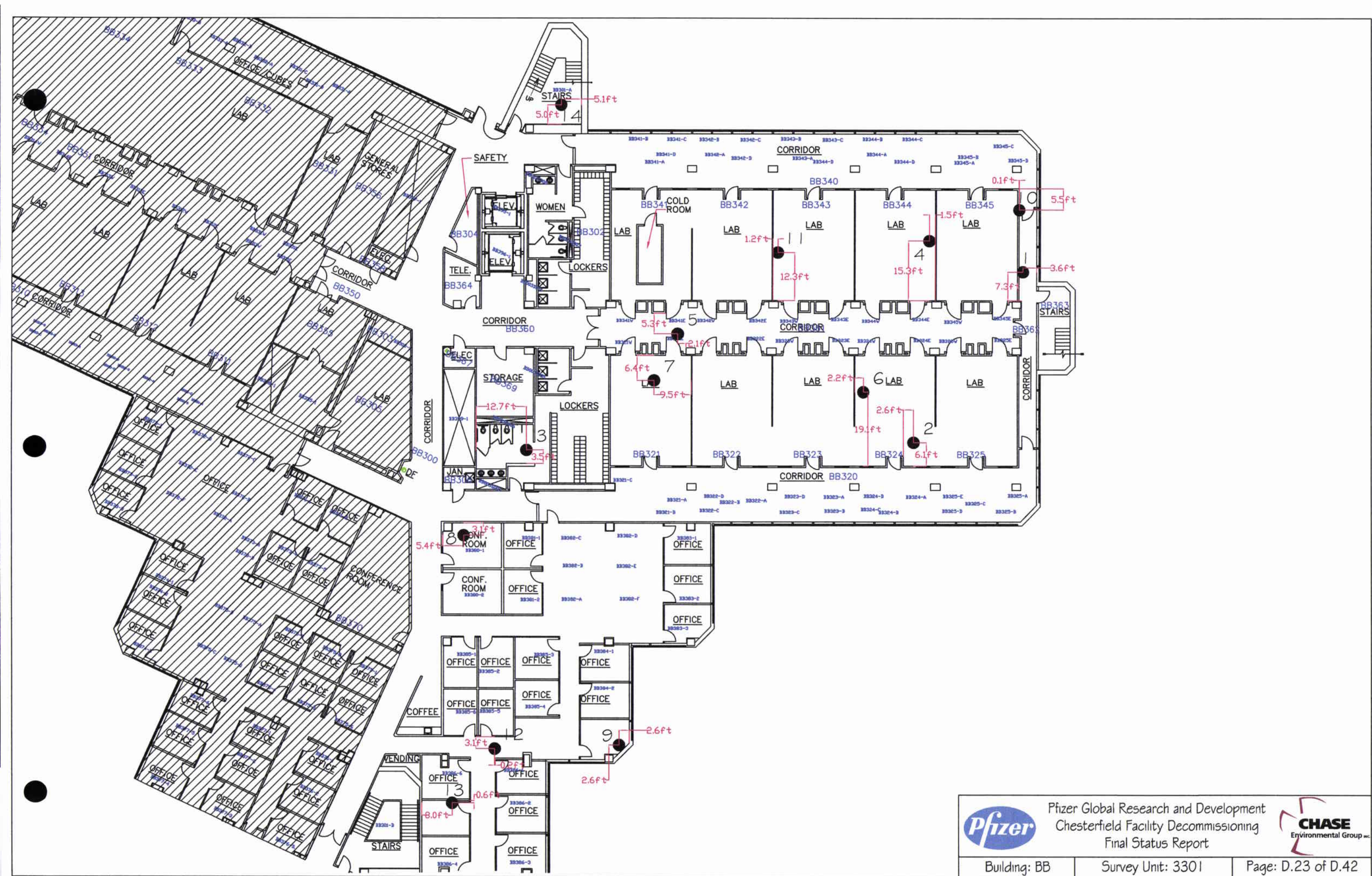






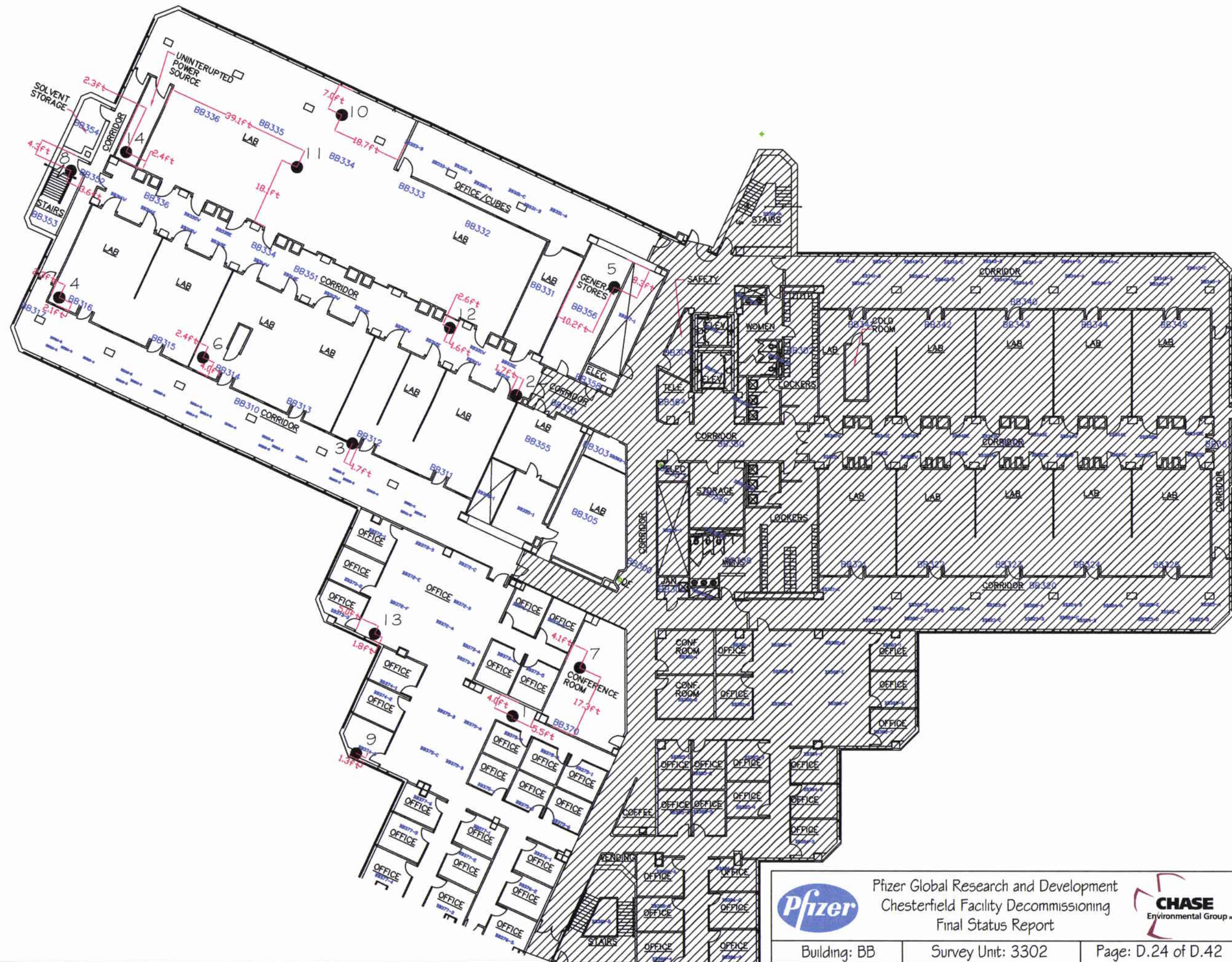
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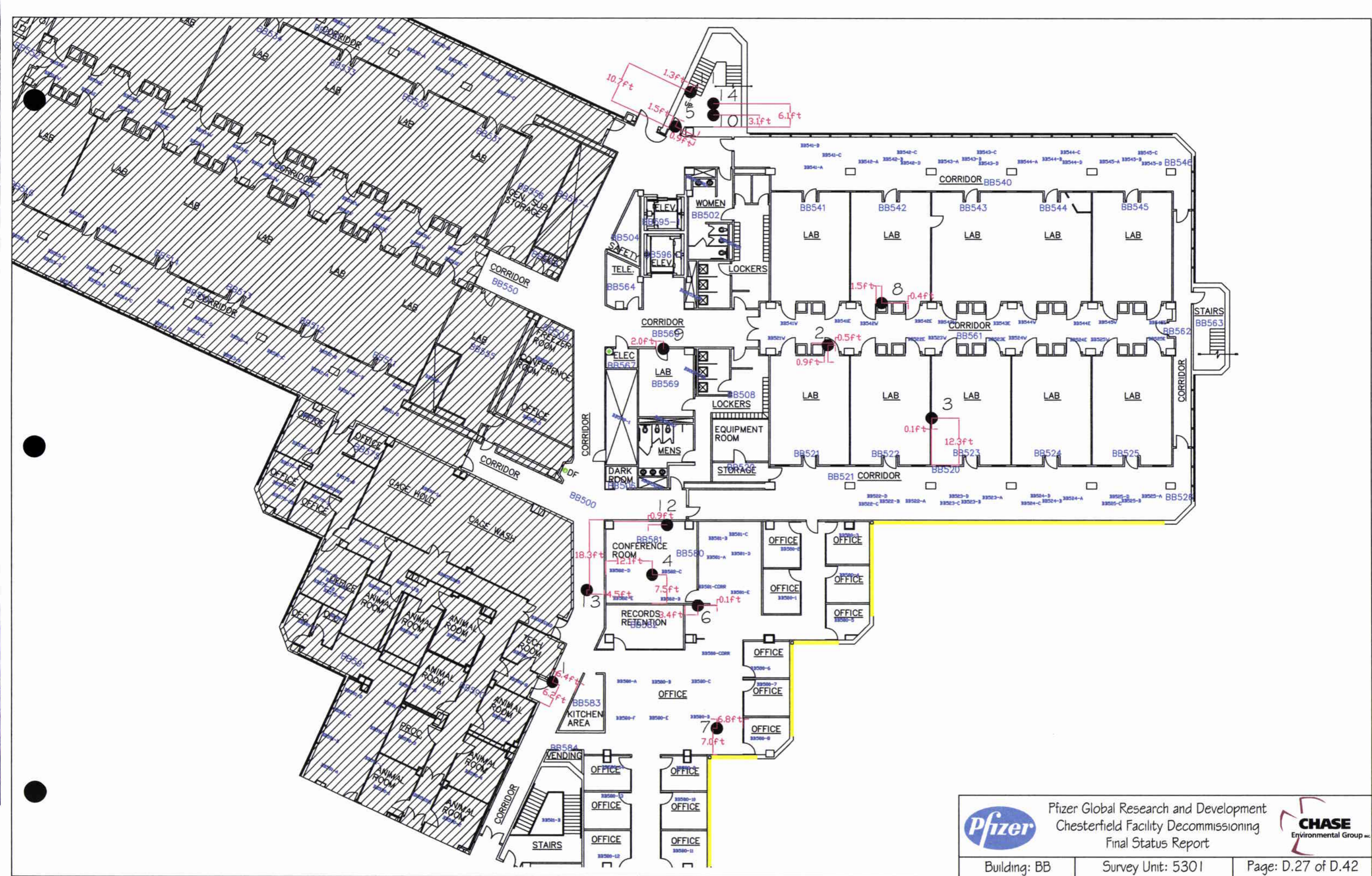
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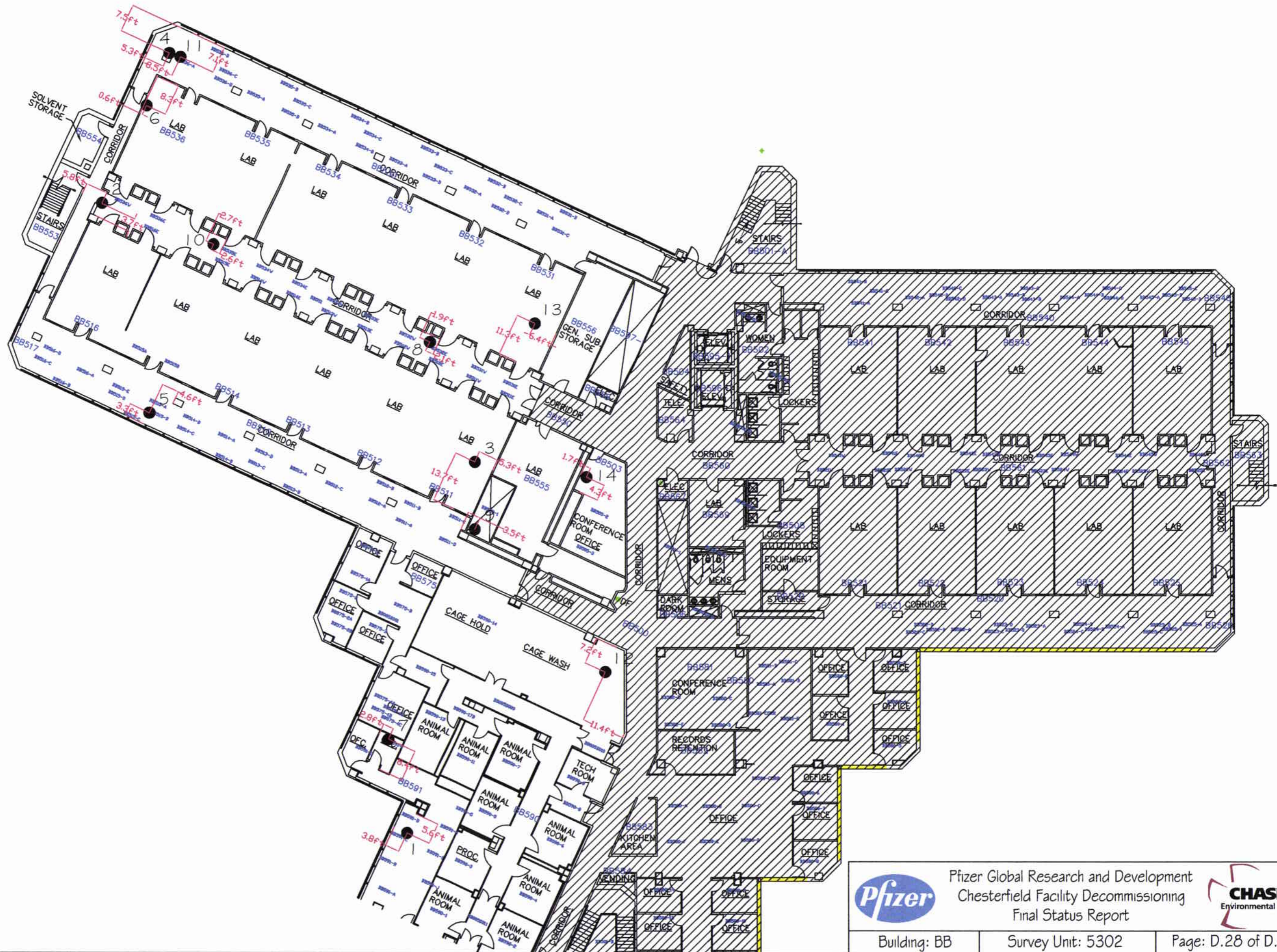






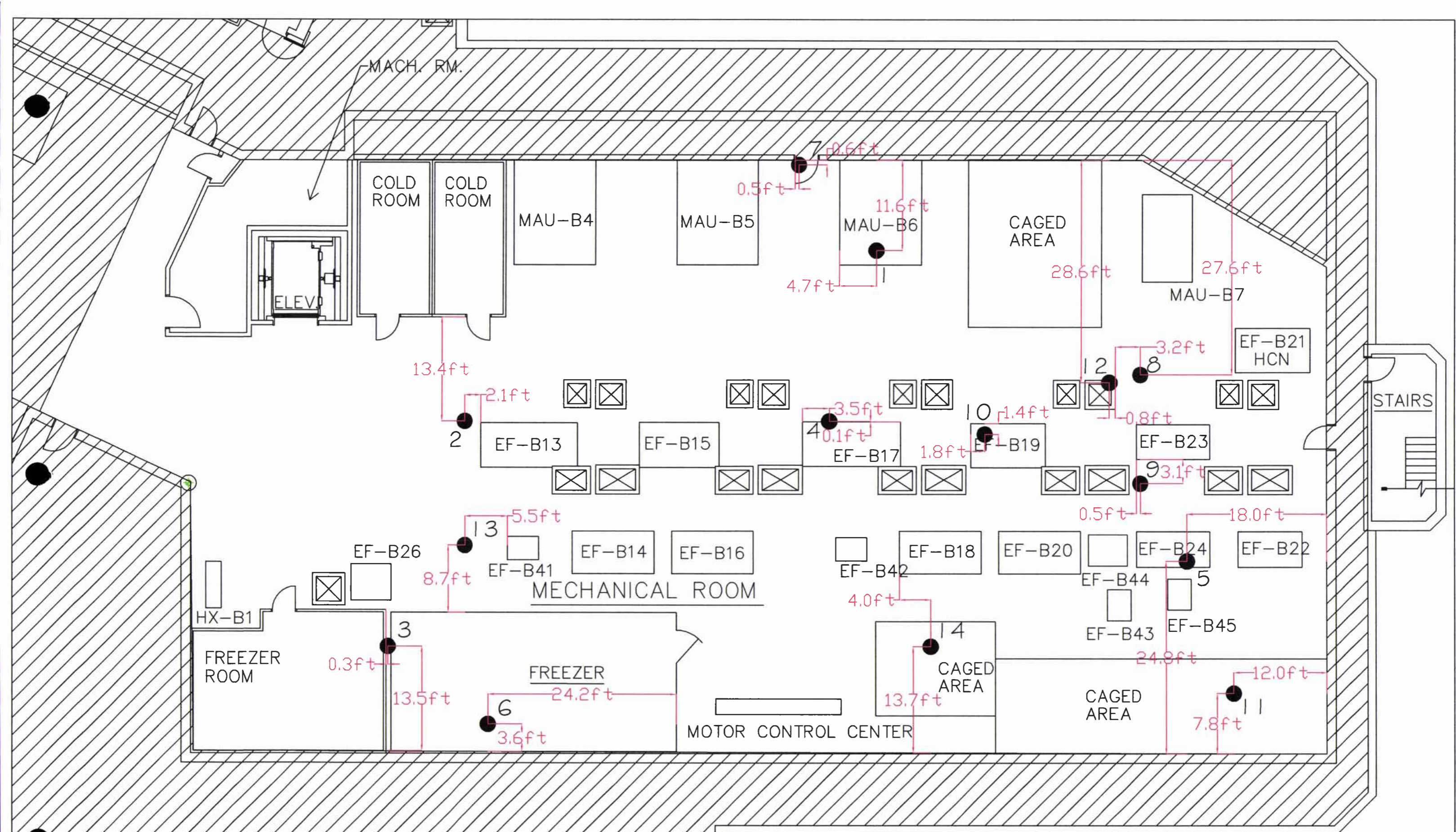
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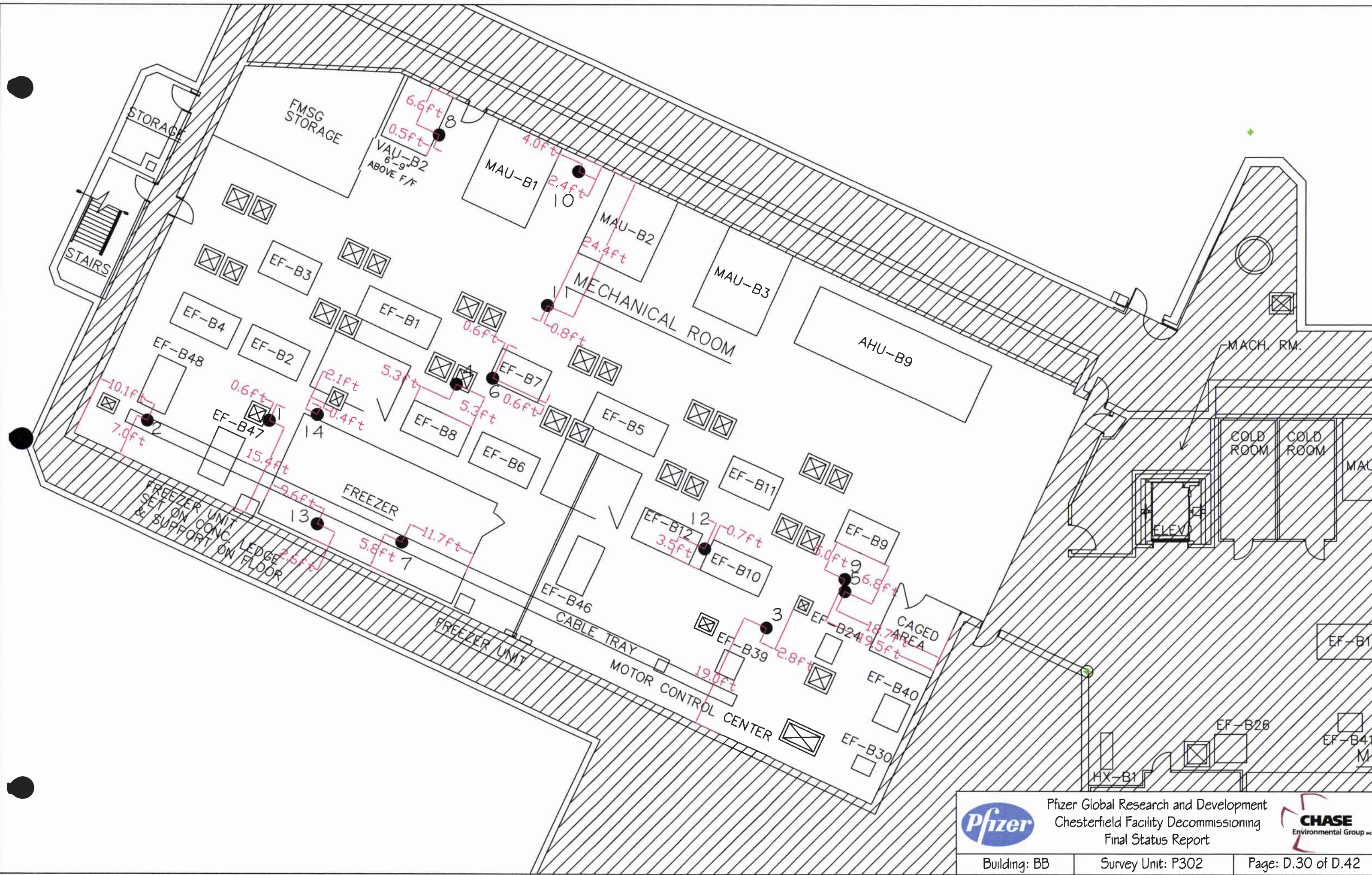




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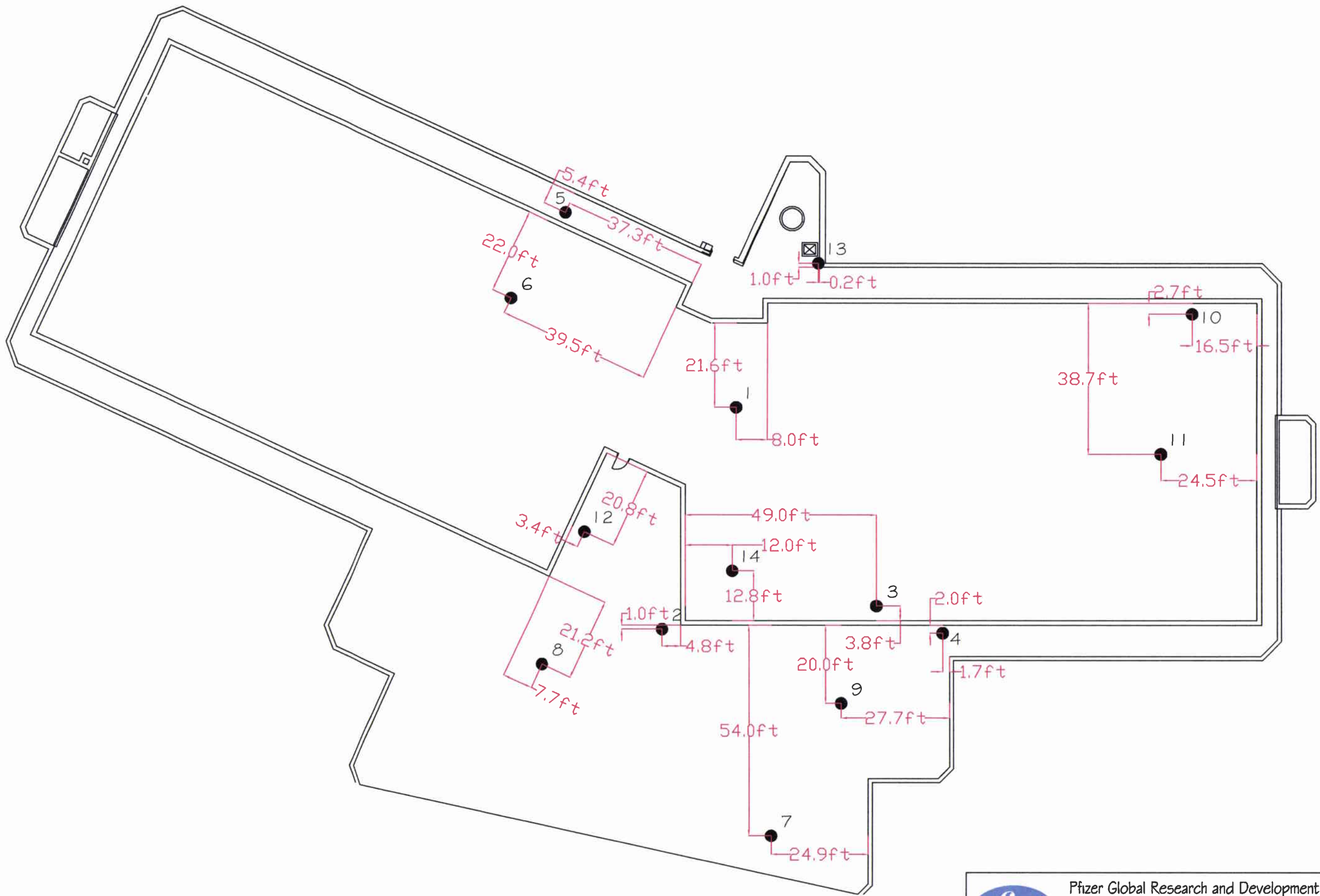


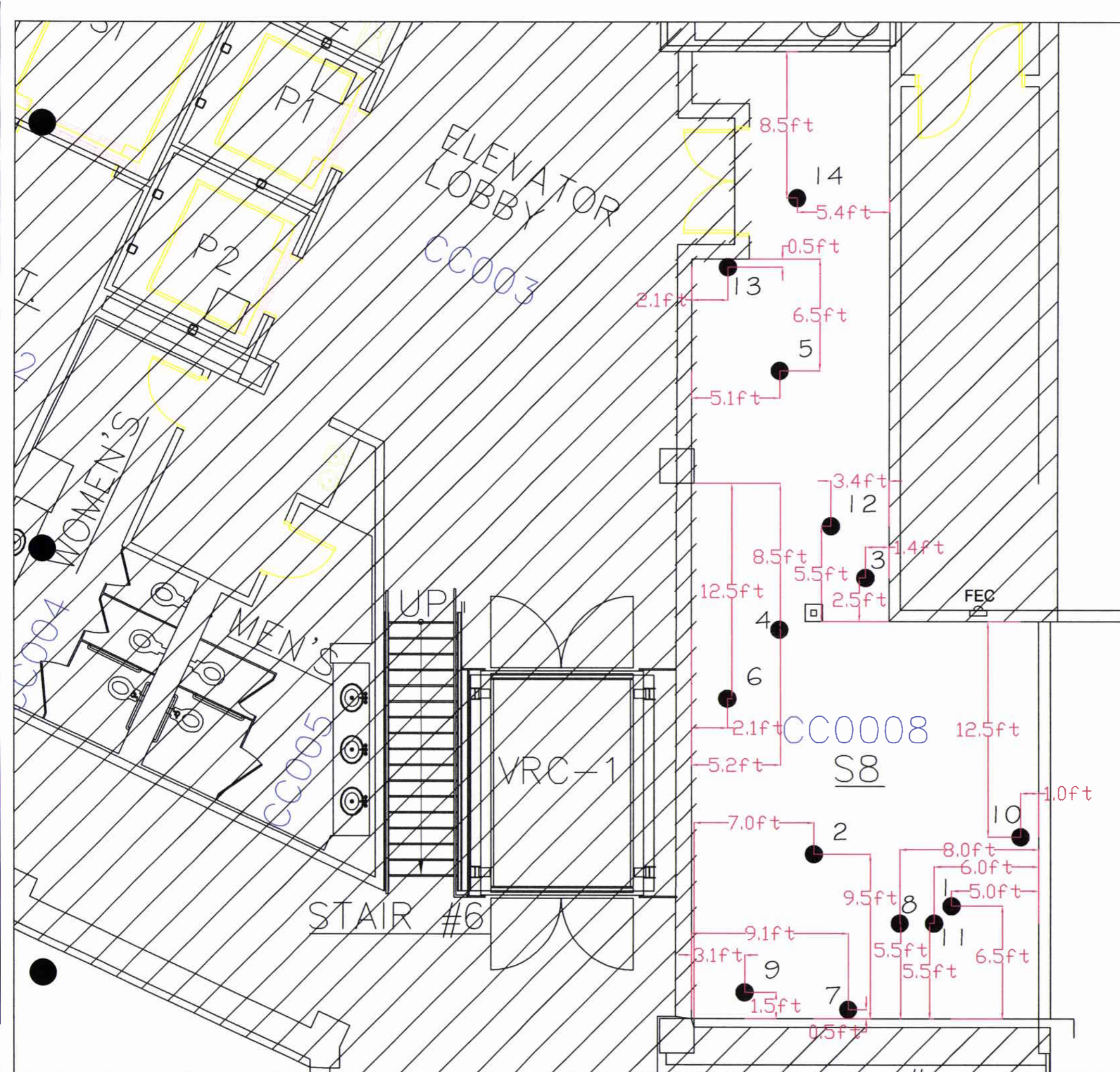


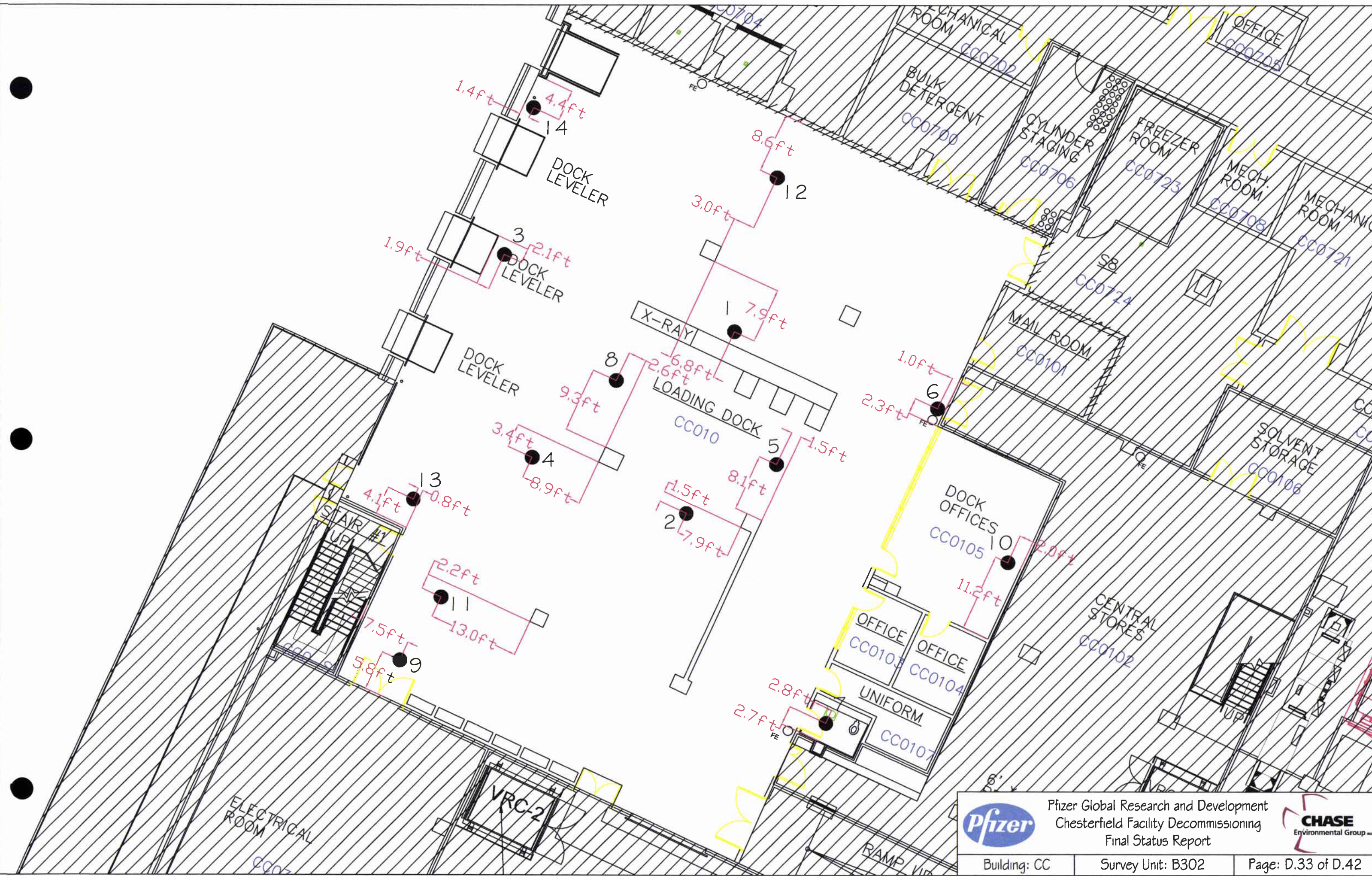


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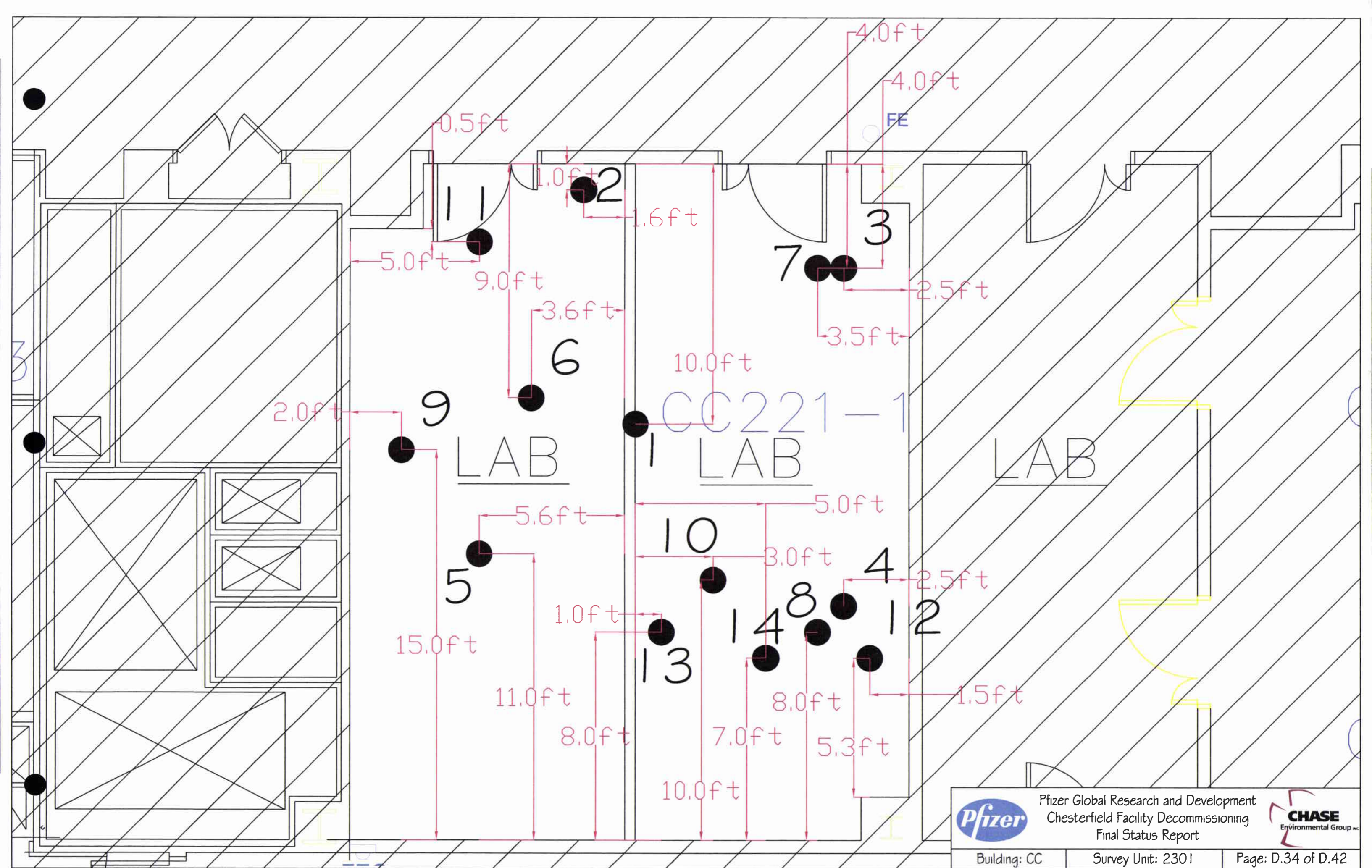






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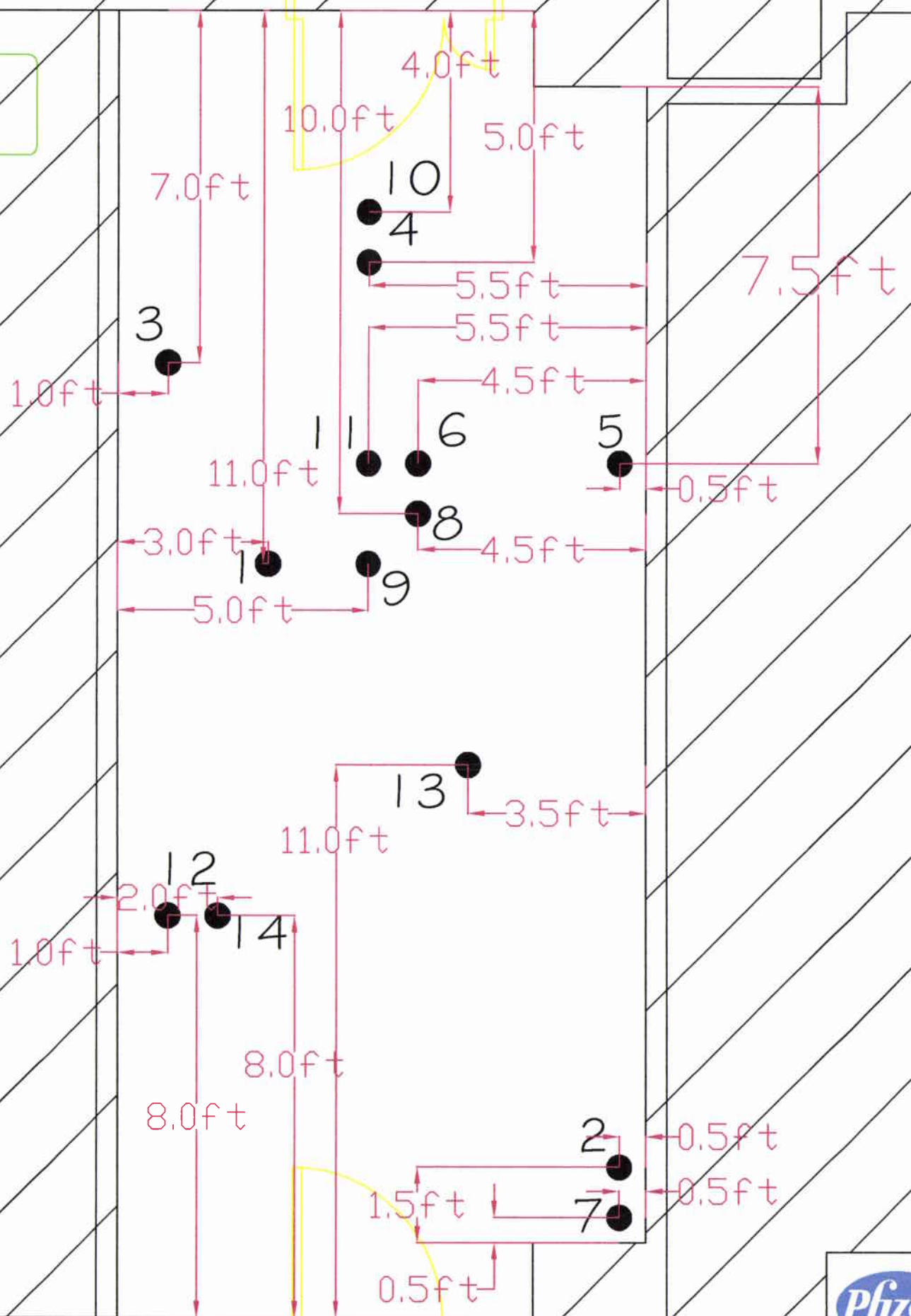




LAB

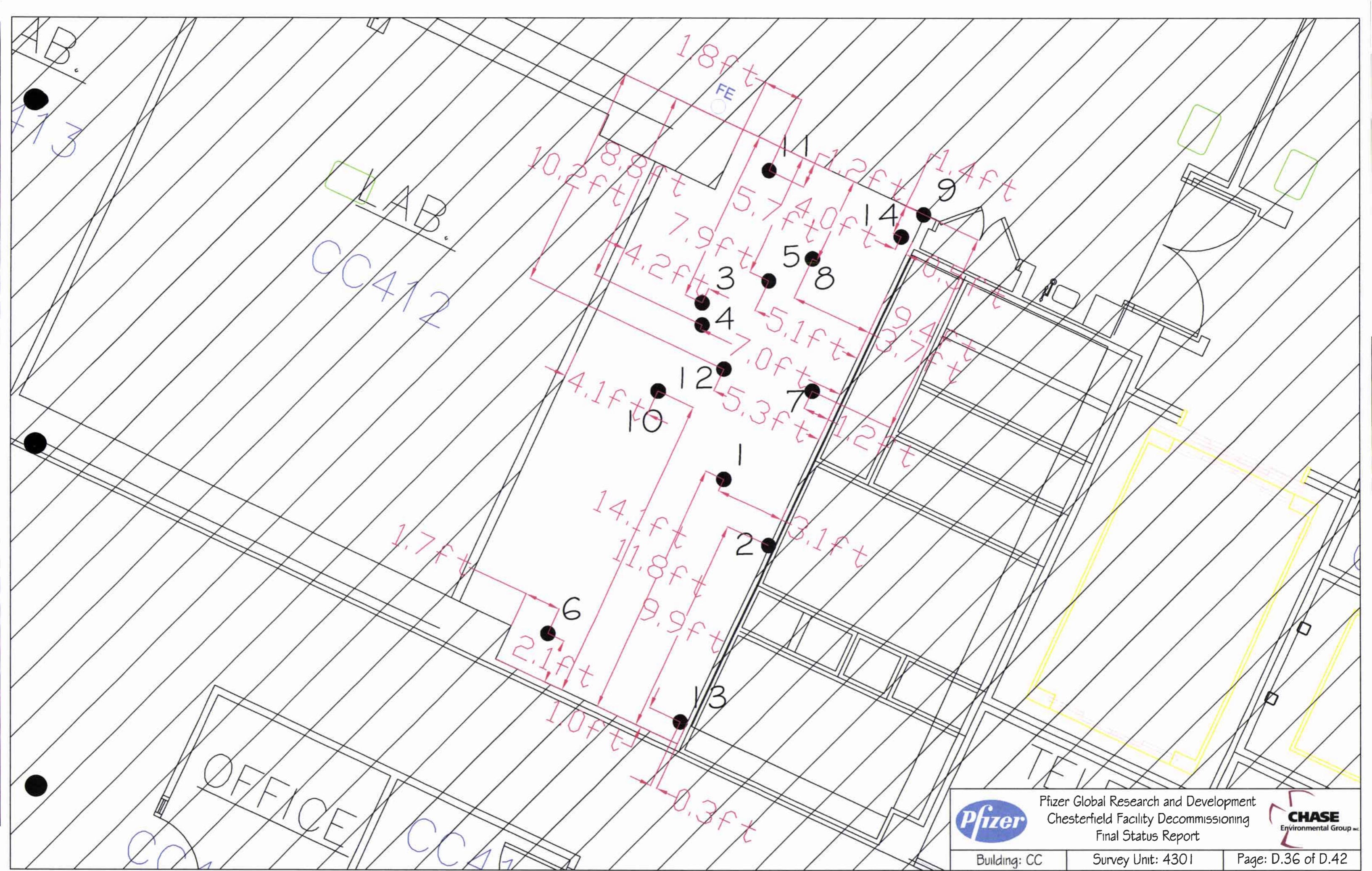
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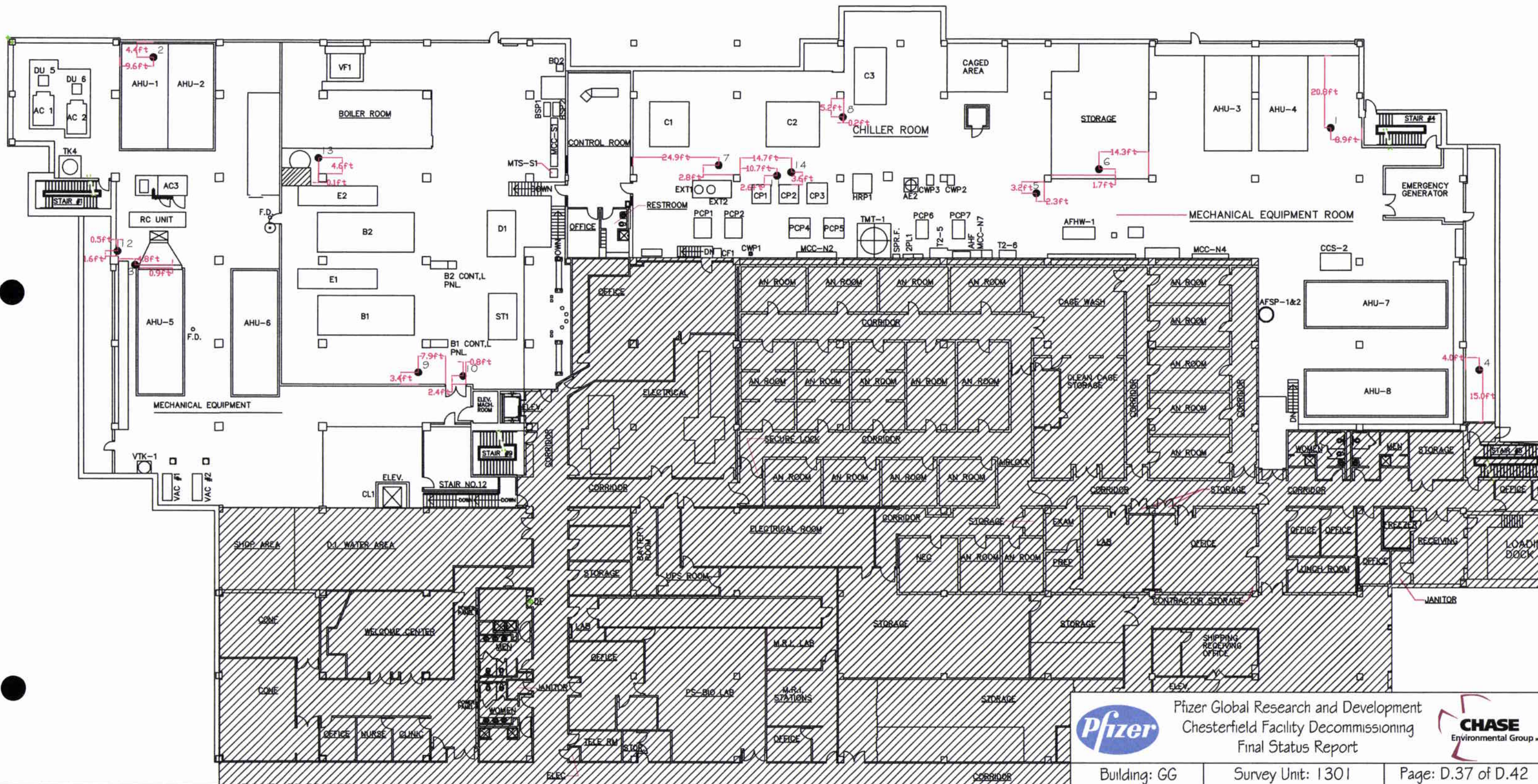
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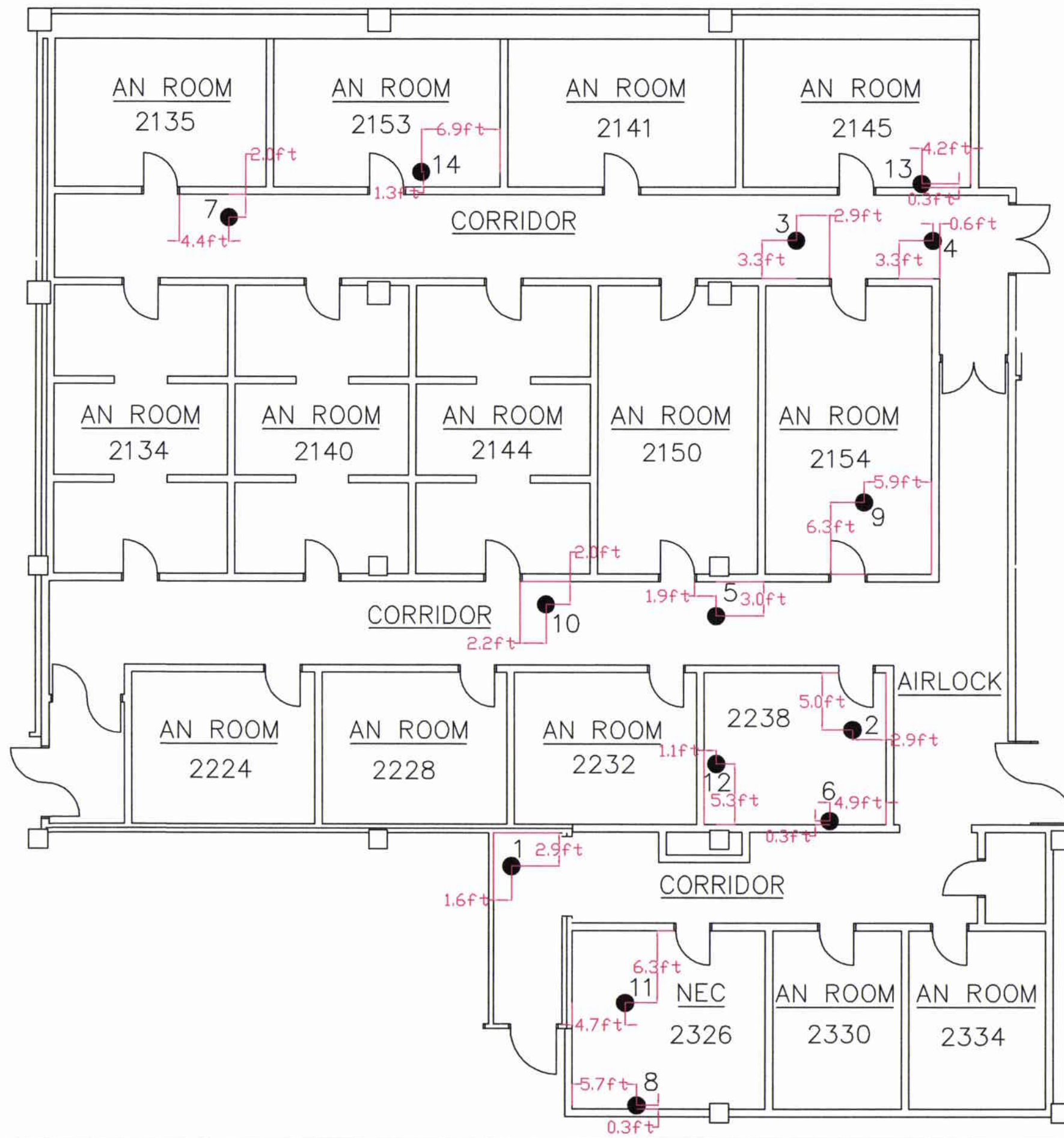
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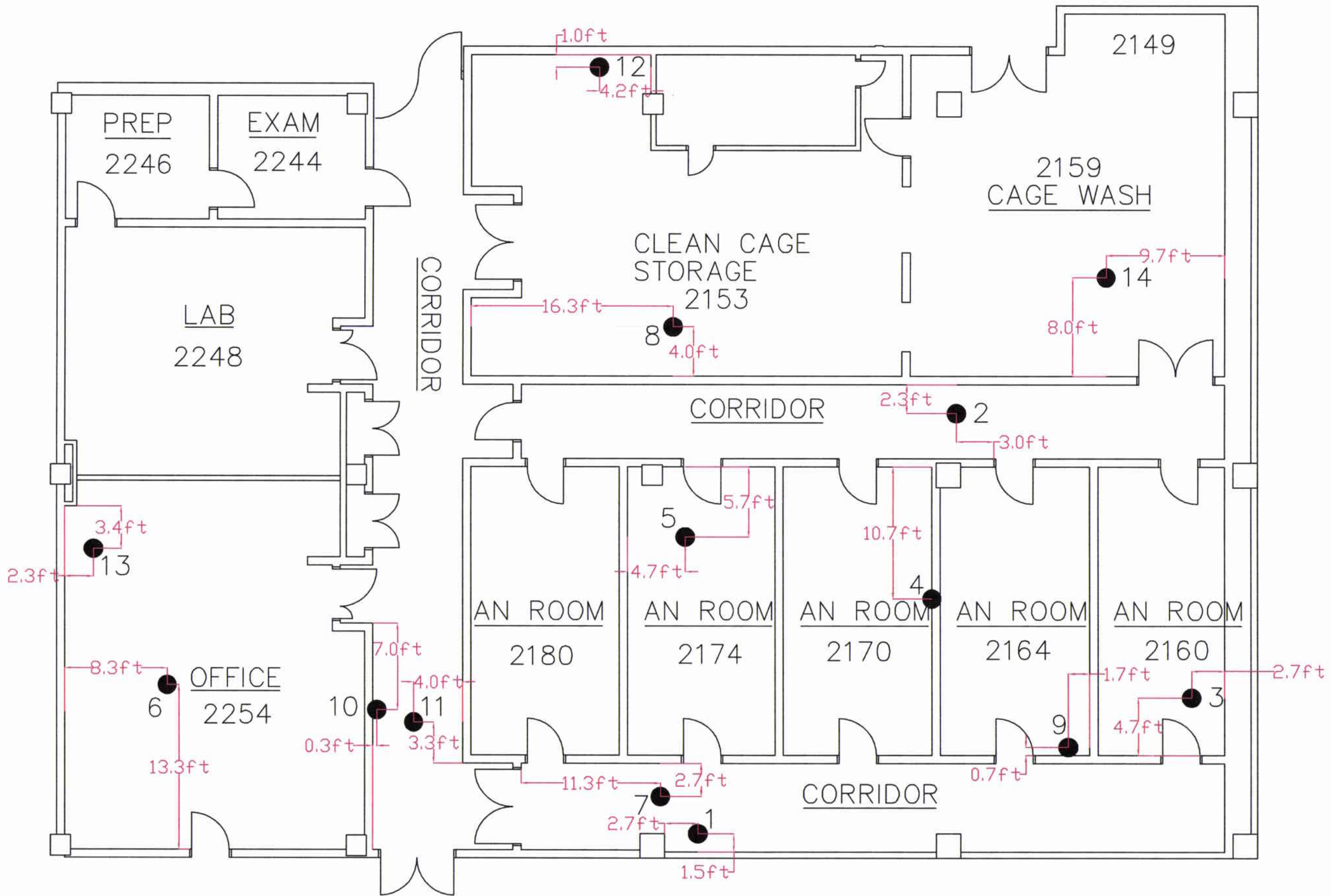


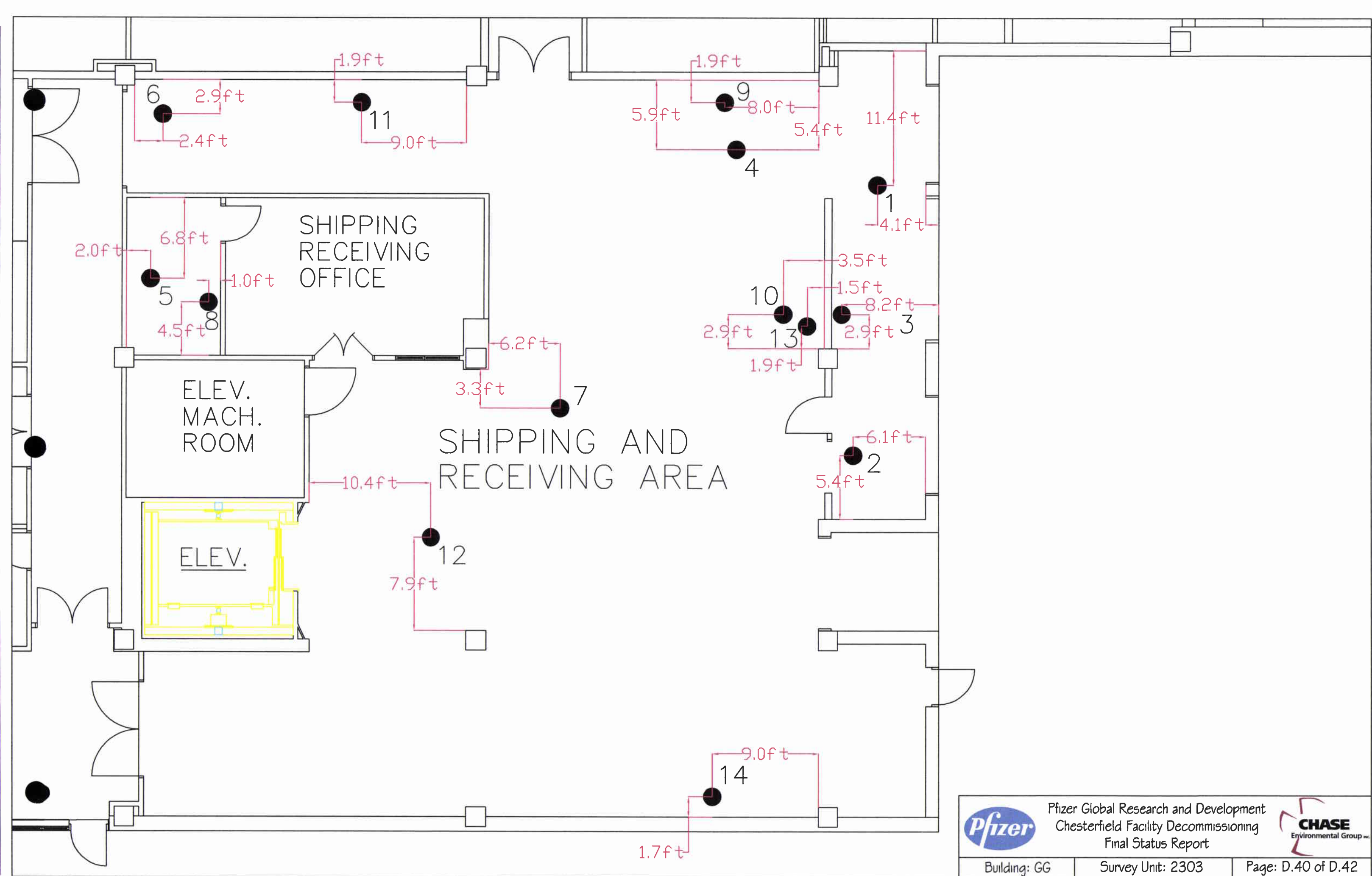


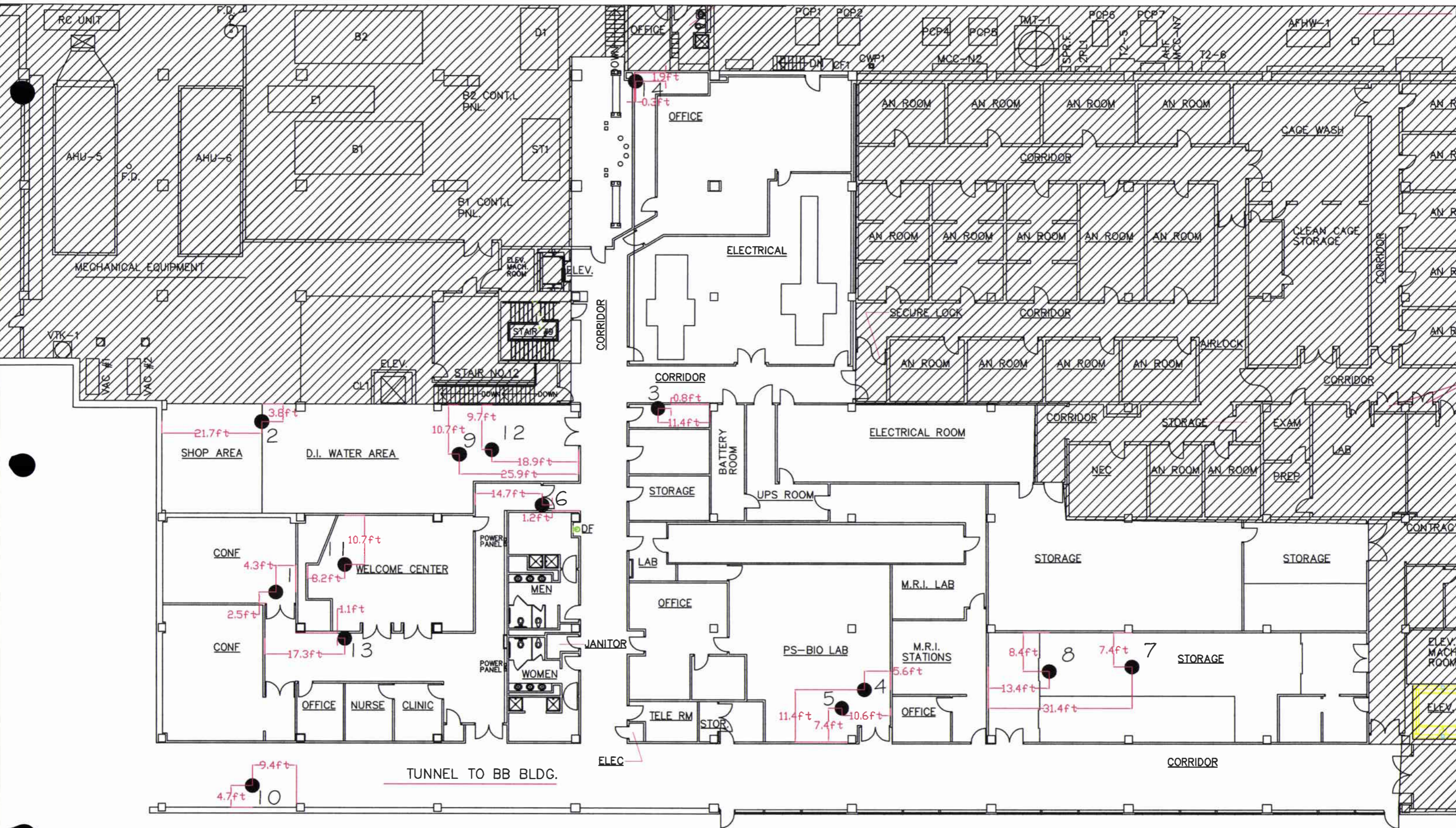
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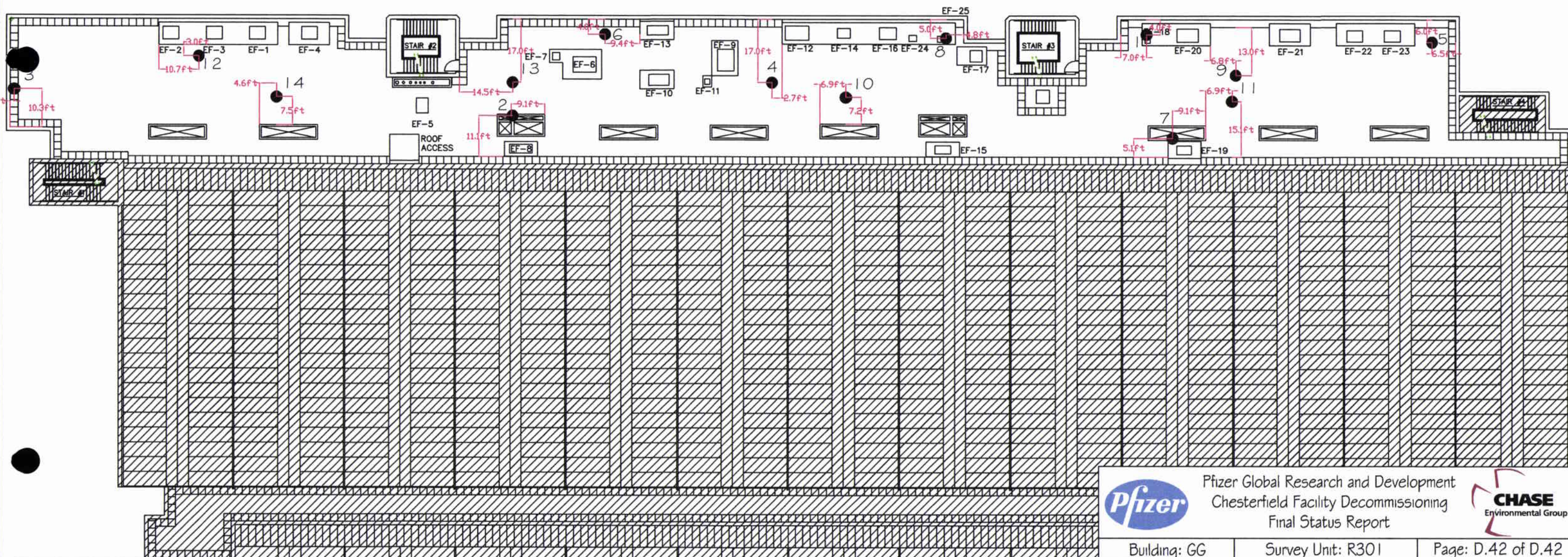






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## Structural Surfaces Survey Results

Location Code	Total Beta Activity Measurements		Removable Activity Measurements			
	Activity	MDC	Tritium		Carbon-14	
			Activity	MDC	Activity	MDC
AA-1301-F1-M-001	108 ± 3529	347	21 ± 15	44	13 ± 9	26
AA-1301-F1-M-002	205 ± 3715	347	20 ± 14	44	17 ± 10	26
AA-1301-F1-C-003	528 ± 4275	347	14 ± 12	44	12 ± 9	26
AA-1301-F1-M-004	262 ± 3821	347	15 ± 12	44	16 ± 10	26
AA-1301-F1-M-005	207 ± 3719	347	30 ± 18	44	10 ± 8	26
AA-1301-F1-M-006	46 ± 3405	347	21 ± 15	44	18 ± 10	26
AA-1301-F1-C-007	629 ± 4436	347	13 ± 12	44	11 ± 8	26
AA-1301-F1-M-008	377 ± 4024	347	7 ± 9	44	15 ± 10	26
AA-1301-F1-M-009	132 ± 3577	347	24 ± 16	44	17 ± 10	26
AA-1301-F1-C-010	749 ± 4621	347	30 ± 18	44	17 ± 10	26
AA-1301-F1-M-011	450 ± 4147	347	21 ± 15	44	18 ± 10	26
AA-1301-F1-M-012	175 ± 3658	347	25 ± 16	44	12 ± 8	26
AA-1301-F1-M-013	166 ± 3642	347	21 ± 15	44	11 ± 8	26
AA-1301-F1-M-014	239 ± 3778	347	22 ± 15	44	16 ± 10	26
Summary for Survey Unit # 1301 (14 detail records)						
<b>Average</b>	305		20		15	
<b>Minimum</b>	46		7		10	
<b>Maximum</b>	749		30		18	
<b>Standard Deviation</b>	211		6		3	

Note: All results reported in dpm/100cm<sup>2</sup>.

## Structural Surfaces Survey Results

Building AA	Survey Unit 1302			Class 3		
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
AA-1302-F1-M-001	75 ± 4014	402	22 ± 15	44	17 ± 10	26
AA-1302-F1-T-002	1162 ± 5585	402	16 ± 13	44	22 ± 11	26
AA-1302-F1-T-003	1194 ± 5625	402	22 ± 15	44	10 ± 8	26
AA-1302-F1-M-004	-85 ± 3728	402	25 ± 16	44	14 ± 9	26
AA-1302-F1-M-005	-149 ± 3607	402	27 ± 17	44	6 ± 6	26
AA-1302-F1-T-006	1332 ± 5793	402	23 ± 16	44	18 ± 10	26
AA-1302-F1-M-007	224 ± 4264	402	29 ± 18	44	13 ± 9	26
AA-1302-F1-T-008	1204 ± 5638	402	21 ± 15	44	18 ± 10	26
AA-1302-F1-T-009	1204 ± 5638	402	18 ± 14	44	15 ± 9	26
AA-1302-F1-M-010	-234 ± 3439	402	22 ± 15	44	17 ± 10	26
AA-1302-F1-T-011	1876 ± 6411	402	10 ± 10	44	20 ± 11	26
AA-1302-F1-M-012	64 ± 3996	402	15 ± 13	44	11 ± 8	26
AA-1302-F1-M-013	85 ± 4033	402	21 ± 15	44	12 ± 9	26
AA-1302-F1-M-014	-245 ± 3418	402	4 ± 7	44	17 ± 10	26
Summary for Survey Unit # 1302 (14 detail records)						
<b>Average</b>	550		20		15	
<b>Minimum</b>	-245		4		6	
<b>Maximum</b>	1876		29		22	
<b>Standard Deviation</b>	731		7		4	

**Note: All results reported in dpm/100cm<sup>2</sup>.**

## Structural Surfaces Survey Results

Building	AA	Survey Unit 2301		Class 3			
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>				
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>		
			Activity	MDC	Activity	MDC	
AA-2301-F1-M-001	160 ± 3861	371	17 ± 13	44	10 ± 8	26	
AA-2301-F1-M-002	75 ± 3705	371	9 ± 10	44	16 ± 10	26	
AA-2301-F1-T-003	1109 ± 5298	371	15 ± 12	44	11 ± 8	26	
AA-2301-F1-M-004	203 ± 3937	371	18 ± 14	44	13 ± 9	26	
AA-2301-F1-M-005	139 ± 3823	371	9 ± 10	44	8 ± 7	26	
AA-2301-F1-M-006	-181 ± 3190	371	17 ± 14	44	17 ± 10	26	
AA-2301-F1-M-007	-21 ± 3521	371	8 ± 9	44	21 ± 11	26	
AA-2301-F1-T-008	1194 ± 5408	371	20 ± 15	44	7 ± 7	26	
AA-2301-F1-M-009	288 ± 4085	371	20 ± 15	44	9 ± 7	26	
AA-2301-F1-C-010	437 ± 4330	371	27 ± 17	44	20 ± 11	26	
AA-2301-F1-M-011	32 ± 3624	371	23 ± 16	44	13 ± 9	26	
AA-2301-F1-M-012	43 ± 3645	371	8 ± 9	44	19 ± 11	26	
AA-2301-F1-M-013	64 ± 3685	371	17 ± 13	44	10 ± 8	26	
AA-2301-F1-T-014	4264 ± 8475	371	9 ± 10	44	24 ± 12	26	
Summary for Survey Unit # 2301 (14 detail records)							
Average	557		16		14		
Minimum	-181		8		7		
Maximum	4264		27		24		
Standard Deviation	1140		6		5		

Note: All results reported in dpm/100cm<sup>2</sup>.

## Structural Surfaces Survey Results

Building AA	Survey Unit 2302			Class 3		
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
AA-2302-F1-C-001	378 ± 4314	380	25 ± 16	44	16 ± 10	26
AA-2302-F1-C-002	346 ± 4262	380	25 ± 16	44	13 ± 9	26
AA-2302-F1-M-003	-155 ± 3350	380	12 ± 11	44	20 ± 11	26
AA-2302-B1-M-004	-5 ± 3646	380	27 ± 17	44	16 ± 10	26
AA-2302-F1-M-005	-69 ± 3522	380	15 ± 13	44	9 ± 7	26
AA-2302-F1-M-006	-101 ± 3458	380	15 ± 12	44	20 ± 11	26
AA-2302-B1-M-007	-187 ± 3283	380	26 ± 17	44	17 ± 10	26
AA-2302-F1-M-008	-165 ± 3327	380	15 ± 13	44	12 ± 9	26
AA-2302-B1-M-009	-187 ± 3283	380	27 ± 17	44	15 ± 10	26
AA-2302-F1-M-010	-16 ± 3625	380	17 ± 13	44	11 ± 8	26
AA-2302-F1-C-011	645 ± 4723	380	11 ± 11	44	18 ± 10	26
AA-2302-B1-M-012	176 ± 3975	380	17 ± 13	44	11 ± 8	26
AA-2302-F1-C-013	517 ± 4531	380	9 ± 10	44	18 ± 10	26
AA-2302-F1-M-014	133 ± 3900	380	2 ± 4	44	18 ± 10	26
Summary for Survey Unit # 2302 (14 detail records)						
<b>Average</b>	94		17		15	
<b>Minimum</b>	-187		2		9	
<b>Maximum</b>	645		27		20	
<b>Standard Deviation</b>	278		8		3	

**Note: All results reported in dpm/100cm<sup>2</sup>.**

## Structural Surfaces Survey Results

Building AA	Survey Unit 3301				Class 3	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
AA-3301-F1-M-001	188 ± 4089	389	17 ± 13	44	10 ± 8	26
AA-3301-F1-M-002	82 ± 3885	389	16 ± 13	44	9 ± 7	26
AA-3301-F1-M-003	188 ± 4089	389	25 ± 16	44	6 ± 6	26
AA-3301-F1-C-004	706 ± 4965	389	13 ± 12	44	12 ± 8	26
AA-3301-F1-M-005	165 ± 4044	389	25 ± 16	44	10 ± 8	26
AA-3301-F1-M-006	-259 ± 3141	389	11 ± 11	44	13 ± 9	26
AA-3301-F1-T-007	1259 ± 5755	389	19 ± 14	44	13 ± 9	26
AA-3301-F1-M-008	59 ± 3839	389	19 ± 14	44	9 ± 7	26
AA-3301-F1-C-009	683 ± 4928	389	25 ± 16	44	11 ± 8	26
AA-3301-F1-C-010	177 ± 4067	389	22 ± 15	44	16 ± 10	26
AA-3301-F1-M-011	-59 ± 3596	389	30 ± 18	44	9 ± 7	26
AA-3301-F1-M-012	212 ± 4133	389	20 ± 15	44	10 ± 8	26
AA-3301-F1-M-013	35 ± 3791	389	22 ± 15	44	16 ± 10	26
AA-3301-F1-M-014	306 ± 4303	389	18 ± 14	44	8 ± 7	26
Summary for Survey Unit # 3301 (14 detail records)						
<b>Average</b>	267		20		11	
<b>Minimum</b>	-259		11		6	
<b>Maximum</b>	1259		30		16	
<b>Standard Deviation</b>	382		5		3	

**Note: All results reported in dpm/100cm<sup>2</sup>.**

## Structural Surfaces Survey Results

Building AA	Survey Unit 3302			Class 3		
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
AA-3302-F1-M-001	-106 ± 3442	385	15 ± 13	44	12 ± 8	26
AA-3302-F1-M-002	-59 ± 3545	385	13 ± 12	44	18 ± 10	26
AA-3302-F1-M-003	0 ± 3670	385	10 ± 10	44	31 ± 14	26
AA-3302-B1-M-004	71 ± 3815	385	6 ± 8	44	14 ± 9	26
AA-3302-F1-M-005	94 ± 3862	385	2 ± 5	44	17 ± 10	26
AA-3302-B1-M-006	118 ± 3908	385	22 ± 15	44	8 ± 7	26
AA-3302-B1-M-007	-118 ± 3416	385	27 ± 17	44	15 ± 9	26
AA-3302-B1-M-008	94 ± 3862	385	11 ± 11	44	13 ± 9	26
AA-3302-F1-M-009	153 ± 3977	385	12 ± 11	44	21 ± 11	26
AA-3302-B1-M-010	-118 ± 3416	385	7 ± 9	44	13 ± 9	26
AA-3302-F1-M-011	224 ± 4110	385	29 ± 18	44	12 ± 8	26
AA-3302-F1-M-012	-165 ± 3309	385	14 ± 12	44	12 ± 8	26
AA-3302-F1-M-013	165 ± 3999	385	27 ± 17	44	10 ± 8	26
AA-3302-F1-M-014	118 ± 3908	385	13 ± 12	44	12 ± 8	26
Summary for Survey Unit # 3302 (14 detail records)						
<b>Average</b>	34		15		15	
<b>Minimum</b>	-165		2		8	
<b>Maximum</b>	224		29		31	
<b>Standard Deviation</b>	125		8		6	

**Note: All results reported in dpm/100cm<sup>2</sup>.**

## Structural Surfaces Survey Results

Building	AA	Survey Unit 4301		Class 3			
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>				
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>		
			Activity	MDC	Activity	MDC	
AA-4301-F1-M-001	306 ± 4282	387	19 ± 14	44	15 ± 9	26	
AA-4301-F1-M-002	-59 ± 3571	387	26 ± 17	44	17 ± 10	26	
AA-4301-F1-M-003	294 ± 4261	387	27 ± 17	44	15 ± 9	26	
AA-4301-B1-M-004	153 ± 3999	387	30 ± 18	44	12 ± 8	26	
AA-4301-F1-C-005	753 ± 5019	387	14 ± 12	44	8 ± 7	26	
AA-4301-B1-M-006	141 ± 3977	387	18 ± 14	44	9 ± 7	26	
AA-4301-F1-M-007	24 ± 3743	387	20 ± 15	44	10 ± 8	26	
AA-4301-F1-M-008	118 ± 3931	387	23 ± 16	44	19 ± 11	26	
AA-4301-F1-M-009	129 ± 3954	387	34 ± 19	44	12 ± 8	26	
AA-4301-F1-M-010	353 ± 4366	387	14 ± 12	44	11 ± 8	26	
AA-4301-F1-M-011	118 ± 3931	387	11 ± 11	44	7 ± 6	26	
AA-4301-F1-M-012	400 ± 4447	387	22 ± 15	44	6 ± 6	26	
AA-4301-B1-M-013	-59 ± 3571	387	13 ± 12	44	13 ± 9	26	
AA-4301-B1-M-014	129 ± 3954	387	21 ± 15	44	15 ± 9	26	
Summary for Survey Unit # 4301 (14 detail records)							
<b>Average</b>	200		21		12		
<b>Minimum</b>	-59		11		6		
<b>Maximum</b>	753		34		19		
<b>Standard Deviation</b>	212		7		4		

Note: All results reported in dpm/100cm<sup>2</sup>.

## Structural Surfaces Survey Results

Building AA	Survey Unit 4302				Class 3	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
AA-4302-F1-M-001	212 ± 4110	387	11 ± 11	44	14 ± 9	26
AA-4302-F1-M-002	153 ± 3999	387	16 ± 13	44	12 ± 8	26
AA-4302-F1-M-003	106 ± 3908	387	13 ± 12	44	13 ± 9	26
AA-4302-F1-M-004	235 ± 4154	387	12 ± 11	44	15 ± 9	26
AA-4302-F1-M-005	165 ± 4022	387	12 ± 11	44	14 ± 9	26
AA-4302-F1-M-006	400 ± 4447	387	24 ± 16	44	11 ± 8	26
AA-4302-F1-M-007	177 ± 4044	387	11 ± 11	44	14 ± 9	26
AA-4302-F1-M-008	235 ± 4154	387	18 ± 14	44	13 ± 9	26
AA-4302-F1-M-009	106 ± 3908	387	25 ± 16	44	16 ± 10	26
AA-4302-F1-C-010	659 ± 4873	387	17 ± 13	44	8 ± 7	26
AA-4302-F1-M-011	271 ± 4219	387	29 ± 18	44	16 ± 10	26
AA-4302-F1-M-012	271 ± 4219	387	19 ± 14	44	11 ± 8	26
AA-4302-F1-M-013	47 ± 3791	387	23 ± 16	44	16 ± 10	26
AA-4302-F1-C-014	553 ± 4703	387	19 ± 14	44	16 ± 10	26
Summary for Survey Unit # 4302 (14 detail records)						
<b>Average</b>	256		18		14	
<b>Minimum</b>	47		11		8	
<b>Maximum</b>	659		29		16	
<b>Standard Deviation</b>	173		6		2	

**Note: All results reported in dpm/100cm<sup>2</sup>.**



## Structural Surfaces Survey Results

Building AA	Survey Unit 4303			Class 3		
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
AA-4303-F1-M-001	-11 ± 8100	856	22 ± 15	44	18 ± 10	26
AA-4303-B1-M-002	-316 ± 7391	856	19 ± 14	44	11 ± 8	26
AA-4303-F1-M-003	44 ± 8223	856	32 ± 18	44	8 ± 7	26
AA-4303-F1-M-004	-122 ± 7850	856	9 ± 10	44	18 ± 10	26
AA-4303-F1-M-005	-288 ± 7458	856	36 ± 20	44	15 ± 9	26
AA-4303-F1-M-006	-454 ± 7044	856	27 ± 17	44	19 ± 11	26
AA-4303-F1-M-007	-233 ± 7591	856	8 ± 9	44	10 ± 8	26
AA-4303-F1-M-008	-399 ± 7185	856	24 ± 16	44	15 ± 10	26
AA-4303-F1-M-009	-233 ± 7591	856	3 ± 6	44	13 ± 9	26
AA-4303-F1-M-010	-427 ± 7115	856	17 ± 13	44	14 ± 9	26
AA-4303-H1-M-011	-288 ± 7458	856	15 ± 13	44	15 ± 10	26
AA-4303-F1-M-012	-510 ± 6901	856	10 ± 10	44	21 ± 11	26
AA-4303-F1-M-013	-427 ± 7115	856	16 ± 13	44	14 ± 9	26
AA-4303-F1-M-014	-482 ± 6973	856	22 ± 15	44	11 ± 8	26
Summary for Survey Unit # 4303 (14 detail records)						
<b>Average</b>	-296		18		14	
<b>Minimum</b>	-510		3		8	
<b>Maximum</b>	44		36		21	
<b>Standard Deviation</b>	172		9		4	

**Note: All results reported in dpm/100cm<sup>2</sup>.**

## Structural Surfaces Survey Results

Building AA	Survey Unit 5301		Class 3			
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
AA-5301-F1-M-001	-71 ± 3794	410	29 ± 18	44	15 ± 9	26
AA-5301-F1-M-002	106 ± 4134	410	18 ± 14	44	18 ± 10	26
AA-5301-F1-M-003	200 ± 4305	410	25 ± 16	44	5 ± 5	26
AA-5301-F1-M-004	71 ± 4069	410	23 ± 16	44	8 ± 7	26
AA-5301-F1-M-005	-94 ± 3746	410	10 ± 10	44	8 ± 7	26
AA-5301-F1-M-006	-141 ± 3648	410	20 ± 15	44	10 ± 8	26
AA-5301-F1-M-007	118 ± 4156	410	12 ± 11	44	23 ± 12	26
AA-5301-F1-M-008	129 ± 4178	410	17 ± 13	44	11 ± 8	26
AA-5301-F1-M-009	35 ± 4002	410	15 ± 13	44	15 ± 9	26
AA-5301-F1-T-010	<b>883 ± 5384</b>	410	10 ± 10	44	13 ± 9	26
AA-5301-F1-M-011	200 ± 4305	410	16 ± 13	44	15 ± 9	26
AA-5301-F1-M-012	59 ± 4046	410	22 ± 15	44	19 ± 11	26
AA-5301-F1-M-013	35 ± 4002	410	32 ± 18	44	11 ± 8	26
AA-5301-F1-M-014	47 ± 4024	410	16 ± 13	44	15 ± 9	26
<b>Summary for Survey Unit # 5301 (14 detail records)</b>						
<b>Average</b>	113		19		13	
<b>Minimum</b>	-141		10		5	
<b>Maximum</b>	883		32		23	
<b>Standard Deviation</b>	243		7		5	

**Note: All results reported in dpm/100cm<sup>2</sup>.**

## Structural Surfaces Survey Results

Building AA	Survey Unit 5302				Class 3	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
AA-5302-F1-C-001	883 ± 5124	375	6 ± 8	44	21 ± 11	26
AA-5302-F1-M-002	118 ± 3814	375	16 ± 13	44	20 ± 11	26
AA-5302-F1-M-003	24 ± 3620	375	37 ± 20	44	12 ± 8	26
AA-5302-F1-M-004	-59 ± 3441	375	14 ± 12	44	13 ± 9	26
AA-5302-F1-M-005	294 ± 4153	375	15 ± 13	44	11 ± 8	26
AA-5302-F1-M-006	435 ± 4406	375	28 ± 17	44	18 ± 10	26
AA-5302-F1-C-007	188 ± 3953	375	26 ± 17	44	16 ± 10	26
AA-5302-F1-M-008	71 ± 3718	375	33 ± 19	44	21 ± 11	26
AA-5302-F1-M-009	424 ± 4385	375	13 ± 12	44	11 ± 8	26
AA-5302-F1-C-010	906 ± 5159	375	22 ± 15	44	11 ± 8	26
AA-5302-F1-M-011	118 ± 3814	375	23 ± 16	44	10 ± 8	26
AA-5302-F1-M-012	-35 ± 3493	375	27 ± 17	44	8 ± 7	26
AA-5302-B1-M-013	165 ± 3907	375	3 ± 6	44	18 ± 10	26
AA-5302-F1-M-014	294 ± 4153	375	21 ± 15	44	14 ± 9	26
Summary for Survey Unit # 5302 (14 detail records)						
<b>Average</b>	273		20		15	
<b>Minimum</b>	-59		3		8	
<b>Maximum</b>	906		37		21	
<b>Standard Deviation</b>	304		10		4	

**Note: All results reported in dpm/100cm<sup>2</sup>.**

## Structural Surfaces Survey Results

Building AA	Survey Unit B301		Class 3			
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
AA-B301-F1-C-001	416 ± 4365	379	15 ± 13	44	14 ± 9	26
AA-B301-F1-C-002	277 ± 4139	379	61 ± 25	44	4 ± 5	26
AA-B301-F1-C-003	-85 ± 3479	379	29 ± 17	44	21 ± 11	26
AA-B301-F1-C-004	608 ± 4660	379	25 ± 16	44	14 ± 9	26
AA-B301-F1-C-005	320 ± 4210	379	14 ± 12	44	16 ± 10	26
AA-B301-F1-C-006	416 ± 4365	379	29 ± 17	44	11 ± 8	26
AA-B301-F1-C-007	373 ± 4297	379	17 ± 14	44	12 ± 9	26
AA-B301-F1-C-008	53 ± 3745	379	37 ± 20	44	9 ± 7	26
AA-B301-F1-C-009	277 ± 4139	379	19 ± 14	44	11 ± 8	26
AA-B301-F1-C-010	405 ± 4348	379	19 ± 14	44	12 ± 9	26
AA-B301-F1-C-011	234 ± 4067	379	21 ± 15	44	13 ± 9	26
AA-B301-F1-C-012	405 ± 4348	379	30 ± 18	44	13 ± 9	26
AA-B301-F1-C-013	362 ± 4280	379	26 ± 17	44	20 ± 11	26
AA-B301-F1-C-014	330 ± 4228	379	26 ± 17	44	12 ± 8	26
Summary for Survey Unit # B301 (14 detail records)						
<b>Average</b>	314		26		13	
<b>Minimum</b>	-85		14		4	
<b>Maximum</b>	608		61		21	
<b>Standard Deviation</b>	168		12		4	

**Note: All results reported in dpm/100cm<sup>2</sup>.**

## Structural Surfaces Survey Results

Building AA	Survey Unit B302		Class 3			
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
AA-B302-F1-C-001	139 ± 4335	423	33 ± 19	44	4 ± 5	26
AA-B302-F1-C-002	149 ± 4352	423	13 ± 12	44	23 ± 12	26
AA-B302-F1-C-003	416 ± 4758	423	11 ± 11	44	12 ± 8	26
AA-B302-F1-C-004	181 ± 4403	423	26 ± 17	44	16 ± 10	26
AA-B302-F1-C-005	394 ± 4727	423	14 ± 12	44	25 ± 12	26
AA-B302-F1-C-006	-21 ± 4071	423	14 ± 12	44	8 ± 7	26
AA-B302-F1-C-007	192 ± 4420	423	27 ± 17	44	12 ± 9	26
AA-B302-F1-C-008	245 ± 4503	423	9 ± 10	44	10 ± 8	26
AA-B302-F1-C-009	75 ± 4232	423	21 ± 15	44	15 ± 9	26
AA-B302-F1-C-010	149 ± 4352	423	10 ± 10	44	17 ± 10	26
AA-B302-F1-C-011	352 ± 4664	423	34 ± 19	44	19 ± 11	26
AA-B302-F1-C-012	309 ± 4600	423	20 ± 15	44	17 ± 10	26
AA-B302-F1-C-013	394 ± 4727	423	26 ± 17	44	13 ± 9	26
AA-B302-F1-C-014	277 ± 4552	423	10 ± 10	44	14 ± 9	26
Summary for Survey Unit # B302 (14 detail records)						
<b>Average</b>	232		19		15	
<b>Minimum</b>	-21		9		4	
<b>Maximum</b>	416		34		25	
<b>Standard Deviation</b>	131		9		5	

**Note: All results reported in dpm/100cm<sup>2</sup>.**

## Structural Surfaces Survey Results

Building AA	Survey Unit P301			Class 3		
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
AA-P301-F1-C-001	426 ± 4663	411	9 ± 10	44	18 ± 10	26
AA-P301-F1-C-002	245 ± 4385	411	7 ± 8	44	17 ± 10	26
AA-P301-F1-C-003	394 ± 4615	411	18 ± 14	44	19 ± 11	26
AA-P301-F1-C-004	533 ± 4819	411	17 ± 14	44	12 ± 9	26
AA-P301-F1-C-005	437 ± 4679	411	18 ± 14	44	20 ± 11	26
AA-P301-F1-C-006	373 ± 4583	411	9 ± 10	44	25 ± 12	26
AA-P301-F1-C-007	437 ± 4679	411	12 ± 11	44	14 ± 9	26
AA-P301-F1-C-008	469 ± 4726	411	24 ± 16	44	15 ± 9	26
AA-P301-F1-C-009	373 ± 4583	411	27 ± 17	44	19 ± 11	26
AA-P301-F1-C-010	426 ± 4663	411	23 ± 16	44	18 ± 10	26
AA-P301-F1-C-011	448 ± 4694	411	18 ± 14	44	12 ± 9	26
AA-P301-F1-C-012	512 ± 4788	411	8 ± 9	44	12 ± 8	26
AA-P301-F1-C-013	117 ± 4178	411	4 ± 7	44	18 ± 10	26
AA-P301-F1-C-014	149 ± 4230	411	12 ± 12	44	12 ± 8	26
Summary for Survey Unit # P301 (14 detail records)						
<b>Average</b>	381		15		16	
<b>Minimum</b>	117		4		12	
<b>Maximum</b>	533		27		25	
<b>Standard Deviation</b>	126		7		4	

**Note: All results reported in dpm/100cm<sup>2</sup>.**

## Structural Surfaces Survey Results

Building AA	Survey Unit P302		Class 3			
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
AA-P302-F1-C-001	-32 ± 3922	411	0 ± 0	44	17 ± 10	26
AA-P302-F1-C-002	117 ± 4178	411	20 ± 15	44	20 ± 11	26
AA-P302-F1-C-003	554 ± 4849	411	24 ± 16	44	5 ± 5	26
AA-P302-F1-C-004	298 ± 4468	411	24 ± 16	44	7 ± 7	26
AA-P302-F1-C-005	330 ± 4518	411	31 ± 18	44	14 ± 9	26
AA-P302-F1-C-006	608 ± 4925	411	4 ± 7	44	18 ± 10	26
AA-P302-F1-C-007	0 ± 3978	411	22 ± 15	44	12 ± 9	26
AA-P302-F1-C-008	394 ± 4615	411	6 ± 8	44	20 ± 11	26
AA-P302-F1-C-009	522 ± 4803	411	10 ± 10	44	13 ± 9	26
AA-P302-F1-C-010	320 ± 4501	411	7 ± 9	44	20 ± 11	26
AA-P302-F1-C-011	650 ± 4985	411	16 ± 13	44	21 ± 11	26
AA-P302-F1-C-012	256 ± 4402	411	11 ± 11	44	9 ± 7	26
AA-P302-F1-C-013	288 ± 4452	411	19 ± 14	44	9 ± 7	26
AA-P302-F1-C-014	234 ± 4368	411	8 ± 9	44	21 ± 11	26
<b>Summary for Survey Unit # P302 (14 detail records)</b>						
<b>Average</b>	324		14		15	
<b>Minimum</b>	-32		0		5	
<b>Maximum</b>	650		31		21	
<b>Standard Deviation</b>	210		9		6	

**Note: All results reported in dpm/100cm<sup>2</sup>.**

## Structural Surfaces Survey Results

Building AA	Survey Unit R301		Class 3			
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
AA-R301-F1-A-001	610 ± 10622	990	14 ± 12	44	11 ± 8	26
AA-R301-F1-A-002	83 ± 9687	990	15 ± 12	44	20 ± 11	26
AA-R301-F1-A-003	<b>1081 ± 11394</b>	990	24 ± 16	44	11 ± 8	26
AA-R301-F1-A-004	277 ± 10042	990	12 ± 11	44	14 ± 9	26
AA-R301-F1-A-005	<b>2162 ± 12992</b>	990	13 ± 12	44	18 ± 10	26
AA-R301-F1-A-006	0 ± 9531	990	27 ± 17	44	12 ± 9	26
AA-R301-F1-A-007	471 ± 10384	990	20 ± 15	44	15 ± 9	26
AA-R301-F1-A-008	249 ± 9992	990	27 ± 17	44	9 ± 7	26
AA-R301-F1-A-009	<b>1746 ± 12402</b>	990	25 ± 16	44	12 ± 8	26
AA-R301-F1-A-010	831 ± 10992	990	20 ± 15	44	13 ± 9	26
AA-R301-F1-A-011	194 ± 9891	990	14 ± 12	44	16 ± 10	26
AA-R301-F1-A-012	<b>1690 ± 12321</b>	990	16 ± 13	44	21 ± 11	26
AA-R301-F1-A-013	942 ± 11172	990	9 ± 10	44	15 ± 10	26
AA-R301-F1-A-014	<b>1275 ± 11697</b>	990	27 ± 17	44	15 ± 10	26
Summary for Survey Unit # R301 (14 detail records)						
<b>Average</b>	829		19		14	
<b>Minimum</b>	0		9		9	
<b>Maximum</b>	2162		27		21	
<b>Standard Deviation</b>	685		6		3	
Summary for Building # AA (224 detail records)						
<b>Avg</b>	277		19		14	
<b>Min</b>	-510		0		4	
<b>Max</b>	4264		61		31	

**Note: All results reported in dpm/100cm<sup>2</sup>.**



## Structural Surfaces Survey Results

Building BB	Survey Unit 1301		Class 3			
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
BB-1301-F1-C-001	721 ± 8915	779	17 ± 13	44	11 ± 8	26
BB-1301-F1-T-002	1635 ± 10605	779	22 ± 15	44	7 ± 7	26
BB-1301-F1-M-003	-83 ± 7106	779	10 ± 10	44	19 ± 11	26
BB-1301-F1-C-004	499 ± 8455	779	15 ± 13	44	16 ± 10	26
BB-1301-B1-M-005	-55 ± 7176	779	19 ± 14	44	19 ± 11	26
BB-1301-B1-M-006	-194 ± 6819	779	17 ± 13	44	14 ± 9	26
BB-1301-F1-C-007	804 ± 9082	779	9 ± 10	44	15 ± 10	26
BB-1301-F1-M-008	139 ± 7648	779	17 ± 13	44	18 ± 10	26
BB-1301-F1-T-009	1219 ± 9873	779	18 ± 14	44	14 ± 9	26
BB-1301-F1-M-010	-305 ± 6519	779	11 ± 11	44	15 ± 10	26
BB-1301-F1-C-011	305 ± 8031	779	18 ± 14	44	17 ± 10	26
BB-1301-F1-C-012	333 ± 8093	779	7 ± 9	44	14 ± 9	26
BB-1301-F1-M-013	194 ± 7778	779	10 ± 10	44	13 ± 9	26
BB-1301-F1-C-014	859 ± 9191	779	24 ± 16	44	17 ± 10	26
Summary for Survey Unit # 1301 (14 detail records)						
<b>Average</b>	434		15		15	
<b>Minimum</b>	-305		7		7	
<b>Maximum</b>	1635		24		19	
<b>Standard Deviation</b>	560		5		3	

**Note: All results reported in dpm/100cm<sup>2</sup>.**

## Structural Surfaces Survey Results

Building BB	Survey Unit 1302		Class 3			
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
BB-1302-F1-T-001	1940 ± 10788	732	18 ± 14	44	16 ± 10	26
BB-1302-F1-C-002	194 ± 7309	732	20 ± 15	44	13 ± 9	26
BB-1302-F1-M-003	-83 ± 6590	732	20 ± 15	44	6 ± 6	26
BB-1302-F1-M-004	388 ± 7773	732	11 ± 11	44	15 ± 10	26
BB-1302-F1-M-005	111 ± 7101	732	31 ± 18	44	14 ± 9	26
BB-1302-F1-M-006	-55 ± 6666	732	26 ± 17	44	13 ± 9	26
BB-1302-F1-M-007	139 ± 7171	732	16 ± 13	44	22 ± 11	26
BB-1302-F1-M-008	305 ± 7578	732	17 ± 13	44	10 ± 8	26
BB-1302-F1-M-009	277 ± 7512	732	16 ± 13	44	13 ± 9	26
BB-1302-F1-M-010	-166 ± 6359	732	31 ± 18	44	16 ± 10	26
BB-1302-F1-M-011	-166 ± 6359	732	7 ± 8	44	20 ± 11	26
BB-1302-F1-M-012	333 ± 7644	732	8 ± 9	44	19 ± 11	26
BB-1302-F1-M-013	55 ± 6959	732	27 ± 17	44	24 ± 12	26
BB-1302-F1-M-014	166 ± 7241	732	11 ± 11	44	16 ± 10	26
Summary for Survey Unit # 1302 (14 detail records)						
<b>Average</b>	245		18		16	
<b>Minimum</b>	-166		7		6	
<b>Maximum</b>	1940		31		24	
<b>Standard Deviation</b>	520		8		5	

**Note: All results reported in dpm/100cm<sup>2</sup>.**

## Structural Surfaces Survey Results

Building BB	Survey Unit 2301		Class 3			
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
BB-2301-B1-M-001	55 ± 6813	717	24 ± 16	44	17 ± 10	26
BB-2301-F1-M-002	582 ± 8087	717	28 ± 17	44	20 ± 11	26
BB-2301-F1-C-003	2189 ± 11107	717	29 ± 18	44	6 ± 6	26
BB-2301-F1-M-004	249 ± 7308	717	34 ± 19	44	13 ± 9	26
BB-2301-F1-M-005	582 ± 8087	717	23 ± 16	44	23 ± 12	26
BB-2301-F1-M-006	360 ± 7577	717	13 ± 12	44	10 ± 8	26
BB-2301-B1-M-007	-28 ± 6589	717	7 ± 9	44	21 ± 11	26
BB-2301-F1-M-008	582 ± 8087	717	18 ± 14	44	12 ± 9	26
BB-2301-F1-M-009	333 ± 7510	717	15 ± 13	44	16 ± 10	26
BB-2301-F1-C-010	1109 ± 9186	717	24 ± 16	44	21 ± 11	26
BB-2301-F1-M-011	1109 ± 9186	717	18 ± 14	44	21 ± 11	26
BB-2301-F1-M-012	527 ± 7962	717	13 ± 12	44	17 ± 10	26
BB-2301-F1-M-013	582 ± 8087	717	7 ± 9	44	21 ± 11	26
BB-2301-F1-M-014	637 ± 8210	717	13 ± 12	44	17 ± 10	26
Summary for Survey Unit # 2301 (14 detail records)						
<b>Average</b>	633		19		17	
<b>Minimum</b>	-28		7		6	
<b>Maximum</b>	2189		34		23	
<b>Standard Deviation</b>	553		8		5	

**Note: All results reported in dpm/100cm<sup>2</sup>.**

## Structural Surfaces Survey Results

Building BB	Survey Unit 2302		Class 3			
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
BB-2302-F1-M-001	271 ± 3974	360	11 ± 11	44	14 ± 9	26
BB-2302-F1-M-002	-35 ± 3333	360	10 ± 10	44	23 ± 12	26
BB-2302-F1-M-003	129 ± 3692	360	6 ± 8	44	24 ± 12	26
BB-2302-F1-M-004	271 ± 3974	360	15 ± 13	44	16 ± 10	26
BB-2302-F1-C-005	388 ± 4195	360	23 ± 16	44	9 ± 7	26
BB-2302-F1-M-006	177 ± 3789	360	21 ± 15	44	8 ± 7	26
BB-2302-F1-M-007	306 ± 4042	360	6 ± 8	44	17 ± 10	26
BB-2302-F1-M-008	24 ± 3466	360	15 ± 13	44	13 ± 9	26
BB-2302-B1-M-009	-153 ± 3051	360	10 ± 10	44	16 ± 10	26
BB-2302-F1-M-010	24 ± 3466	360	24 ± 16	44	11 ± 8	26
BB-2302-F1-M-011	24 ± 3466	360	9 ± 10	44	18 ± 10	26
BB-2302-F1-M-012	71 ± 3568	360	14 ± 12	44	16 ± 10	26
BB-2302-F1-M-013	-35 ± 3333	360	19 ± 14	44	13 ± 9	26
BB-2302-F1-M-014	471 ± 4343	360	19 ± 14	44	13 ± 9	26
Summary for Survey Unit # 2302 (14 detail records)						
<b>Average</b>	138		14		15	
<b>Minimum</b>	-153		6		8	
<b>Maximum</b>	471		24		24	
<b>Standard Deviation</b>	181		6		5	

**Note: All results reported in dpm/100cm<sup>2</sup>.**

## Structural Surfaces Survey Results

Building BB	Survey Unit 3301		Class 3			
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
BB-3301-F1-M-001	141 ± 3954	385	9 ± 10	44	20 ± 11	26
BB-3301-F1-M-002	200 ± 4066	385	25 ± 16	44	13 ± 9	26
BB-3301-F1-T-003	1118 ± 5531	385	16 ± 13	44	18 ± 10	26
BB-3301-B1-M-004	-153 ± 3336	385	14 ± 12	44	22 ± 11	26
BB-3301-F1-C-005	953 ± 5298	385	7 ± 9	44	16 ± 10	26
BB-3301-F1-M-006	-141 ± 3363	385	4 ± 7	44	9 ± 7	26
BB-3301-B1-M-007	-165 ± 3309	385	21 ± 15	44	14 ± 9	26
BB-3301-F1-M-008	82 ± 3838	385	16 ± 13	44	9 ± 7	26
BB-3301-B1-M-009	35 ± 3743	385	19 ± 14	44	6 ± 6	26
BB-3301-F1-M-010	177 ± 4022	385	14 ± 12	44	17 ± 10	26
BB-3301-B1-M-011	-94 ± 3468	385	10 ± 10	44	11 ± 8	26
BB-3301-F1-M-012	-35 ± 3596	385	23 ± 16	44	14 ± 9	26
BB-3301-F1-M-013	118 ± 3908	385	21 ± 15	44	11 ± 8	26
BB-3301-F1-M-014	0 ± 3670	385	32 ± 18	44	12 ± 8	26
Summary for Survey Unit # 3301 (14 detail records)						
<b>Average</b>	160		17		14	
<b>Minimum</b>	-165		4		6	
<b>Maximum</b>	1118		32		22	
<b>Standard Deviation</b>	392		8		5	

**Note: All results reported in dpm/100cm<sup>2</sup>.**

## Structural Surfaces Survey Results

Building <b>BB</b>	Survey Unit <b>3302</b>		Class <b>3</b>			
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
BB-3302-F1-M-001	165 ± 4111	396	21 ± 15	44	11 ± 8	26
BB-3302-F1-C-002	624 ± 4892	396	3 ± 6	44	12 ± 8	26
BB-3302-F1-M-003	71 ± 3932	396	15 ± 13	44	9 ± 7	26
BB-3302-B1-M-004	-153 ± 3469	396	22 ± 15	44	13 ± 9	26
BB-3302-F1-M-005	-165 ± 3443	396	11 ± 11	44	15 ± 9	26
BB-3302-F1-M-006	-118 ± 3546	396	18 ± 14	44	17 ± 10	26
BB-3302-F1-M-007	71 ± 3932	396	10 ± 10	44	9 ± 7	26
BB-3302-F1-M-008	0 ± 3792	396	9 ± 10	44	12 ± 8	26
BB-3302-F1-M-009	259 ± 4283	396	16 ± 13	44	3 ± 4	26
BB-3302-F1-M-010	212 ± 4198	396	27 ± 17	44	9 ± 7	26
BB-3302-F1-M-011	0 ± 3792	396	26 ± 17	44	13 ± 9	26
BB-3302-F1-C-012	259 ± 4283	396	15 ± 13	44	8 ± 7	26
BB-3302-F1-M-013	153 ± 4089	396	23 ± 16	44	12 ± 8	26
BB-3302-F1-M-014	-188 ± 3391	396	16 ± 13	44	17 ± 10	26
Summary for Survey Unit # 3302 (14 detail records)						
<b>Average</b>	85		17		11	
<b>Minimum</b>	-188		3		3	
<b>Maximum</b>	624		27		17	
<b>Standard Deviation</b>	220		7		4	

**Note: All results reported in dpm/100cm<sup>2</sup>.**

## Structural Surfaces Survey Results

Building BB	Survey Unit 4301		Class 3			
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
BB-4301-F1-M-001	129 ± 4328	425	8 ± 9	44	10 ± 8	26
BB-4301-F1-M-002	-271 ± 3550	425	30 ± 18	44	7 ± 6	26
BB-4301-F1-T-003	1083 ± 5773	425	7 ± 9	44	18 ± 10	26
BB-4301-F1-M-004	-341 ± 3394	425	11 ± 11	44	20 ± 11	26
BB-4301-F1-M-005	-177 ± 3747	425	17 ± 13	44	8 ± 7	26
BB-4301-F1-M-006	-129 ± 3842	425	15 ± 13	44	12 ± 8	26
BB-4301-F1-M-007	-106 ± 3889	425	12 ± 11	44	22 ± 11	26
BB-4301-F1-M-008	-35 ± 4026	425	18 ± 14	44	23 ± 12	26
BB-4301-F1-M-009	-141 ± 3819	425	13 ± 12	44	12 ± 8	26
BB-4301-F1-M-010	47 ± 4179	425	10 ± 10	44	8 ± 7	26
BB-4301-F1-M-011	-82 ± 3935	425	13 ± 12	44	11 ± 8	26
BB-4301-F1-T-012	1083 ± 5773	425	26 ± 17	44	10 ± 8	26
BB-4301-F1-M-013	-106 ± 3889	425	14 ± 12	44	16 ± 10	26
BB-4301-F1-M-014	-94 ± 3912	425	19 ± 14	44	12 ± 8	26
Summary for Survey Unit # 4301 (14 detail records)						
<b>Average</b>	61		15		14	
<b>Minimum</b>	-341		7		7	
<b>Maximum</b>	1083		30		23	
<b>Standard Deviation</b>	448		6		5	

**Note: All results reported in dpm/100cm<sup>2</sup>.**

## Structural Surfaces Survey Results

Building BB	Survey Unit 4302			Class 3		
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
BB-4302-F1-M-001	-106 ± 3746	412	21 ± 15	44	14 ± 9	26
BB-4302-F1-M-002	-106 ± 3746	412	14 ± 12	44	14 ± 9	26
BB-4302-F1-M-003	247 ± 4409	412	11 ± 11	44	20 ± 11	26
BB-4302-F1-M-004	153 ± 4242	412	4 ± 7	44	15 ± 9	26
BB-4302-F1-M-005	-24 ± 3911	412	20 ± 15	44	10 ± 8	26
BB-4302-F1-M-006	-177 ± 3599	412	14 ± 12	44	12 ± 8	26
BB-4302-F1-M-007	188 ± 4306	412	12 ± 11	44	18 ± 10	26
BB-4302-F1-M-008	-59 ± 3841	412	12 ± 11	44	11 ± 8	26
BB-4302-F1-M-009	-106 ± 3746	412	22 ± 15	44	5 ± 5	26
BB-4302-F1-M-010	-94 ± 3770	412	12 ± 11	44	17 ± 10	26
BB-4302-F1-C-011	565 ± 4930	412	13 ± 12	44	7 ± 6	26
BB-4302-F1-M-012	-82 ± 3794	412	11 ± 11	44	16 ± 10	26
BB-4302-F1-M-013	-35 ± 3888	412	12 ± 11	44	18 ± 10	26
BB-4302-F1-M-014	-177 ± 3599	412	7 ± 9	44	15 ± 9	26
Summary for Survey Unit # 4302 (14 detail records)						
<b>Average</b>	13		13		14	
<b>Minimum</b>	-177		4		5	
<b>Maximum</b>	565		22		20	
<b>Standard Deviation</b>	206		5		4	

**Note: All results reported in dpm/100cm<sup>2</sup>.**



## Structural Surfaces Survey Results

Building BB	Survey Unit 5301		Class 3			
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
BB-5301-F1-M-001	59 ± 3767	382	20 ± 15	44	17 ± 10	26
BB-5301-F1-C-002	694 ± 4891	382	16 ± 13	44	15 ± 9	26
BB-5301-F1-M-003	47 ± 3743	382	10 ± 10	44	13 ± 9	26
BB-5301-F1-M-004	106 ± 3861	382	9 ± 10	44	11 ± 8	26
BB-5301-F1-M-005	330 ± 4282	382	15 ± 13	44	15 ± 9	26
BB-5301-F1-M-006	71 ± 3791	382	16 ± 13	44	15 ± 9	26
BB-5301-F1-M-007	153 ± 3954	382	16 ± 13	44	8 ± 7	26
BB-5301-F1-C-008	788 ± 5036	382	23 ± 16	44	13 ± 9	26
BB-5301-F1-M-009	-35 ± 3570	382	14 ± 12	44	9 ± 7	26
BB-5301-F1-M-010	24 ± 3694	382	26 ± 17	44	16 ± 10	26
BB-5301-F1-M-011	82 ± 3814	382	8 ± 9	44	14 ± 9	26
BB-5301-F1-M-012	188 ± 4021	382	32 ± 18	44	10 ± 8	26
BB-5301-F1-M-013	-47 ± 3545	382	12 ± 11	44	19 ± 11	26
BB-5301-F1-M-014	35 ± 3719	382	10 ± 10	44	16 ± 10	26
Summary for Survey Unit # 5301 (14 detail records)						
<b>Average</b>	178		16		14	
<b>Minimum</b>	-47		8		8	
<b>Maximum</b>	788		32		19	
<b>Standard Deviation</b>	257		7		3	

**Note: All results reported in dpm/100cm<sup>2</sup>.**

## Structural Surfaces Survey Results

Location Code	Total Beta Activity Measurements		Removable Activity Measurements			
	Activity	MDC	Tritium		Carbon-14	
			Activity	MDC	Activity	MDC
BB-5302-F1-M-001	165 ± 3976	382	21 ± 15	44	13 ± 9	26
BB-5302-F1-M-002	12 ± 3670	382	14 ± 12	44	14 ± 9	26
BB-5302-F1-M-003	165 ± 3976	382	21 ± 15	44	7 ± 6	26
BB-5302-F1-M-004	82 ± 3814	382	22 ± 15	44	10 ± 8	26
BB-5302-F1-M-005	330 ± 4282	382	19 ± 14	44	21 ± 11	26
BB-5302-F1-M-006	165 ± 3976	382	17 ± 13	44	14 ± 9	26
BB-5302-F1-M-007	224 ± 4088	382	12 ± 11	44	9 ± 7	26
BB-5302-F1-C-008	683 ± 4872	382	9 ± 10	44	12 ± 8	26
BB-5302-F1-M-009	235 ± 4110	382	10 ± 10	44	16 ± 10	26
BB-5302-F1-C-010	1047 ± 5415	382	8 ± 9	44	22 ± 11	26
BB-5302-F1-M-011	59 ± 3767	382	22 ± 15	44	9 ± 7	26
BB-5302-F1-C-012	47 ± 3743	382	7 ± 9	44	12 ± 8	26
BB-5302-F1-M-013	259 ± 4154	382	10 ± 10	44	14 ± 9	26
BB-5302-F1-M-014	-12 ± 3620	382	10 ± 10	44	17 ± 10	26
Summary for Survey Unit # 5302 (14 detail records)						
Average	247		14		14	
Minimum	-12		7		7	
Maximum	1047		22		22	
Standard Deviation	289		6		4	

Note: All results reported in dpm/100cm<sup>2</sup>.

## Structural Surfaces Survey Results

Building BB	Survey Unit B301		Class 3			
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
BB-B301-F1-M-001	-160 ± 3350	381	9 ± 10	44	18 ± 10	26
BB-B301-F1-C-002	533 ± 4564	381	16 ± 13	44	15 ± 10	26
BB-B301-F1-C-003	117 ± 3881	381	27 ± 17	44	12 ± 8	26
BB-B301-F1-C-004	-213 ± 3238	381	13 ± 12	44	17 ± 10	26
BB-B301-F1-C-005	-53 ± 3564	381	24 ± 16	44	12 ± 8	26
BB-B301-F1-C-006	-107 ± 3458	381	16 ± 13	44	24 ± 12	26
BB-B301-F1-C-007	277 ± 4157	381	3 ± 6	44	13 ± 9	26
BB-B301-F1-C-008	288 ± 4175	381	16 ± 13	44	17 ± 10	26
BB-B301-F1-C-009	469 ± 4466	381	24 ± 16	44	16 ± 10	26
BB-B301-F1-M-010	21 ± 3706	381	31 ± 18	44	15 ± 10	26
BB-B301-F1-C-011	437 ± 4416	381	21 ± 15	44	20 ± 11	26
BB-B301-F1-C-012	469 ± 4466	381	19 ± 14	44	18 ± 10	26
BB-B301-F1-R-013	-181 ± 3305	381	11 ± 11	44	19 ± 11	26
BB-B301-F1-C-014	320 ± 4228	381	14 ± 12	44	10 ± 8	26
Summary for Survey Unit # B301 (14 detail records)						
<b>Average</b>	158		17		16	
<b>Minimum</b>	-213		3		10	
<b>Maximum</b>	533		31		24	
<b>Standard Deviation</b>	271		8		4	

**Note: All results reported in dpm/100cm<sup>2</sup>.**

## Structural Surfaces Survey Results

Building BB	Survey Unit B302		Class 3			
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
BB-B302-F1-C-001	362 ± 4297	381	19 ± 14	44	17 ± 10	26
BB-B302-F1-C-002	0 ± 3666	381	10 ± 10	44	21 ± 11	26
BB-B302-F1-C-003	490 ± 4499	381	30 ± 18	44	9 ± 7	26
BB-B302-F1-C-004	394 ± 4348	381	19 ± 14	44	20 ± 11	26
BB-B302-F1-C-005	703 ± 4816	381	14 ± 12	44	16 ± 10	26
BB-B302-F1-C-006	480 ± 4482	381	24 ± 16	44	16 ± 10	26
BB-B302-F1-C-007	394 ± 4348	381	21 ± 15	44	12 ± 9	26
BB-B302-F1-C-008	448 ± 4433	381	21 ± 15	44	16 ± 10	26
BB-B302-F1-C-009	330 ± 4245	381	8 ± 9	44	18 ± 10	26
BB-B302-F1-C-010	501 ± 4515	381	4 ± 7	44	17 ± 10	26
BB-B302-F1-C-011	533 ± 4564	381	21 ± 15	44	12 ± 9	26
BB-B302-F1-C-012	416 ± 4382	381	23 ± 16	44	16 ± 10	26
BB-B302-F1-C-013	480 ± 4482	381	14 ± 12	44	16 ± 10	26
BB-B302-F1-C-014	-128 ± 3415	381	20 ± 14	44	18 ± 10	26
Summary for Survey Unit # B302 (14 detail records)						
<b>Average</b>	386		18		16	
<b>Minimum</b>	-128		4		9	
<b>Maximum</b>	703		30		21	
<b>Standard Deviation</b>	212		7		3	

**Note: All results reported in dpm/100cm<sup>2</sup>.**

## Structural Surfaces Survey Results

Building BB	Survey Unit P301		Class 3			
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
BB-P301-F1-C-001	192 ± 4012	381	18 ± 14	44	16 ± 10	26
BB-P301-F1-C-002	330 ± 4245	381	16 ± 13	44	14 ± 9	26
BB-P301-F1-C-003	266 ± 4139	381	18 ± 14	44	17 ± 10	26
BB-P301-F1-C-004	405 ± 4365	381	18 ± 14	44	20 ± 11	26
BB-P301-F1-C-005	405 ± 4365	381	17 ± 14	44	12 ± 9	26
BB-P301-F1-C-006	21 ± 3706	381	17 ± 14	44	20 ± 11	26
BB-P301-F1-C-007	224 ± 4067	381	21 ± 15	44	21 ± 11	26
BB-P301-F1-C-008	298 ± 4193	381	21 ± 15	44	19 ± 11	26
BB-P301-F1-C-009	352 ± 4280	381	32 ± 19	44	15 ± 10	26
BB-P301-F1-C-010	725 ± 4847	381	16 ± 13	44	16 ± 10	26
BB-P301-F1-C-011	117 ± 3881	381	11 ± 11	44	19 ± 11	26
BB-P301-F1-C-012	171 ± 3975	381	8 ± 9	44	15 ± 10	26
BB-P301-F1-C-013	565 ± 4612	381	24 ± 16	44	14 ± 9	26
BB-P301-F1-C-014	373 ± 4314	381	15 ± 13	44	24 ± 12	26
Summary for Survey Unit # P301 (14 detail records)						
<b>Average</b>	317		18		17	
<b>Minimum</b>	21		8		12	
<b>Maximum</b>	725		32		24	
<b>Standard Deviation</b>	181		6		3	

**Note: All results reported in dpm/100cm<sup>2</sup>.**

## Structural Surfaces Survey Results

Building BB	Survey Unit P302			Class 3		
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u> Activity	MDC	<u>Carbon-14</u> Activity	MDC
BB-P302-F1-C-001	234 ± 4085	381	25 ± 16	44	19 ± 11	26
BB-P302-F1-C-002	917 ± 5114	381	8 ± 9	44	21 ± 11	26
BB-P302-F1-C-003	224 ± 4067	381	29 ± 17	44	9 ± 7	26
BB-P302-F1-C-004	21 ± 3706	381	20 ± 15	44	12 ± 8	26
BB-P302-F1-C-005	245 ± 4103	381	23 ± 16	44	14 ± 9	26
BB-P302-F1-C-006	458 ± 4449	381	22 ± 15	44	15 ± 9	26
BB-P302-F1-C-007	171 ± 3975	381	11 ± 11	44	9 ± 7	26
BB-P302-F1-C-008	234 ± 4085	381	12 ± 11	44	15 ± 9	26
BB-P302-F1-C-009	192 ± 4012	381	23 ± 16	44	24 ± 12	26
BB-P302-F1-C-010	330 ± 4245	381	23 ± 16	44	14 ± 9	26
BB-P302-F1-C-011	320 ± 4228	381	32 ± 18	44	19 ± 11	26
BB-P302-F1-C-012	245 ± 4103	381	22 ± 15	44	10 ± 8	26
BB-P302-F1-C-013	256 ± 4121	381	21 ± 15	44	15 ± 9	26
BB-P302-F1-C-014	362 ± 4297	381	31 ± 18	44	10 ± 8	26
Summary for Survey Unit # P302 (14 detail records)						
<b>Average</b>	301		21		15	
<b>Minimum</b>	21		8		9	
<b>Maximum</b>	917		32		24	
<b>Standard Deviation</b>	204		7		5	

**Note: All results reported in dpm/100cm<sup>2</sup>.**

## Structural Surfaces Survey Results

Building BB	Survey Unit R301		Class 3			
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
BB-R301-F1-A-001	-55 ± 9426	990	28 ± 17	44	18 ± 10	26
BB-R301-F1-A-002	1136 ± 11481	990	26 ± 17	44	11 ± 8	26
BB-R301-F1-A-003	1303 ± 11739	990	20 ± 14	44	17 ± 10	26
BB-R301-F1-A-004	1275 ± 11697	990	21 ± 15	44	12 ± 8	26
BB-R301-F1-A-005	748 ± 10855	990	16 ± 13	44	15 ± 9	26
BB-R301-F1-A-006	139 ± 9790	990	23 ± 16	44	12 ± 8	26
BB-R301-F1-A-007	1413 ± 11908	990	21 ± 15	44	13 ± 9	26
BB-R301-F1-A-008	3547 ± 14791	990	16 ± 13	44	19 ± 11	26
BB-R301-F1-A-009	2660 ± 13667	990	23 ± 16	44	12 ± 8	26
BB-R301-F1-A-010	166 ± 9841	990	11 ± 11	44	16 ± 10	26
BB-R301-F1-A-011	-416 ± 8709	990	19 ± 14	44	14 ± 9	26
BB-R301-F1-A-012	1497 ± 12034	990	34 ± 19	44	12 ± 8	26
BB-R301-F1-A-013	1053 ± 11350	990	26 ± 17	44	33 ± 14	26
BB-R301-F1-A-014	942 ± 11172	990	26 ± 17	44	8 ± 7	26
Summary for Survey Unit # R301 (14 detail records)						
Average	1101		22		15	
Minimum	-416		11		8	
Maximum	3547		34		33	
Standard Deviation	1050		6		6	
Summary for Building # BB (210 detail records)						
Avg	297		17		15	
Min	-416		3		3	
Max	3547		34		33	

**Note: All results reported in dpm/100cm<sup>2</sup>.**

## Structural Surfaces Survey Results

Building CC	Survey Unit 2301				Class 3	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
CC-2301-F1-M-001	-94 ± 2927	336	16 ± 13	44	9 ± 7	26
CC-2301-S1-M-002	35 ± 3248	336	6 ± 8	44	16 ± 10	26
CC-2301-F1-M-003	59 ± 3303	336	15 ± 13	44	12 ± 8	26
CC-2301-F1-M-004	24 ± 3221	336	17 ± 13	44	13 ± 9	26
CC-2301-F1-M-005	153 ± 3515	336	20 ± 15	44	10 ± 8	26
CC-2301-F1-M-006	247 ± 3714	336	19 ± 14	44	13 ± 9	26
CC-2301-F1-M-007	141 ± 3489	336	12 ± 11	44	8 ± 7	26
CC-2301-F1-M-008	82 ± 3358	336	30 ± 18	44	14 ± 9	26
CC-2301-F1-M-009	129 ± 3463	336	20 ± 15	44	12 ± 8	26
CC-2301-F1-M-010	141 ± 3489	336	13 ± 12	44	13 ± 9	26
CC-2301-F1-M-011	200 ± 3616	336	23 ± 16	44	13 ± 9	26
CC-2301-F1-M-012	212 ± 3641	336	25 ± 16	44	15 ± 9	26
CC-2301-F1-M-013	306 ± 3834	336	22 ± 15	44	10 ± 8	26
CC-2301-F1-M-014	118 ± 3437	336	8 ± 9	44	17 ± 10	26
Summary for Survey Unit # 2301 (14 detail records)						
<b>Average</b>	125		18		13	
<b>Minimum</b>	-94		6		8	
<b>Maximum</b>	306		30		17	
<b>Standard Deviation</b>	102		7		3	

**Note: All results reported in dpm/100cm<sup>2</sup>.**



## Structural Surfaces Survey Results

Building CC	Survey Unit 3301		Class 3			
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
CC-3301-F1-M-001	-35 ± 3222	350	18 ± 14	44	9 ± 7	26
CC-3301-F1-M-002	-71 ± 3137	350	13 ± 12	44	20 ± 11	26
CC-3301-F1-M-003	-47 ± 3194	350	38 ± 20	44	14 ± 9	26
CC-3301-F1-M-004	-106 ± 3049	350	22 ± 15	44	16 ± 10	26
CC-3301-F1-M-005	59 ± 3438	350	5 ± 7	44	12 ± 8	26
CC-3301-F1-M-006	-153 ± 2929	350	20 ± 15	44	15 ± 9	26
CC-3301-F1-M-007	-12 ± 3277	350	25 ± 16	44	13 ± 9	26
CC-3301-F1-M-008	-59 ± 3165	350	22 ± 15	44	8 ± 7	26
CC-3301-F1-M-009	-94 ± 3079	350	33 ± 19	44	5 ± 5	26
CC-3301-F1-M-010	129 ± 3592	350	14 ± 12	44	9 ± 7	26
CC-3301-F1-M-011	-35 ± 3222	350	15 ± 13	44	12 ± 8	26
CC-3301-F1-M-012	-82 ± 3108	350	26 ± 17	44	14 ± 9	26
CC-3301-F1-M-013	82 ± 3490	350	25 ± 16	44	12 ± 8	26
CC-3301-F1-M-014	-24 ± 3250	350	18 ± 14	44	28 ± 13	26
<b>Summary for Survey Unit # 3301 (14 detail records)</b>						
<b>Average</b>	-32		21		13	
<b>Minimum</b>	-153		5		5	
<b>Maximum</b>	129		38		28	
<b>Standard Deviation</b>	77		8		6	

**Note: All results reported in dpm/100cm<sup>2</sup>.**

## Structural Surfaces Survey Results

Building	CC	Survey Unit 4301		Class 3			
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>				
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>		
			Activity	MDC	Activity	MDC	
CC-4301-F1-M-001	259 ± 3665	328	26 ± 17	44	5 ± 5	26	
CC-4301-F1-M-002	59 ± 3220	328	14 ± 12	44	9 ± 7	26	
CC-4301-F1-M-003	224 ± 3590	328	25 ± 16	44	10 ± 8	26	
CC-4301-F1-M-004	35 ± 3163	328	32 ± 18	44	16 ± 10	26	
CC-4301-F1-M-005	330 ± 3809	328	11 ± 11	44	7 ± 6	26	
CC-4301-F1-M-006	141 ± 3410	328	10 ± 10	44	17 ± 10	26	
CC-4301-B1-M-007	200 ± 3540	328	27 ± 17	44	14 ± 9	26	
CC-4301-F1-M-008	224 ± 3590	328	13 ± 12	44	14 ± 9	26	
CC-4301-B1-M-009	-12 ± 3047	328	16 ± 13	44	8 ± 7	26	
CC-4301-F1-M-010	200 ± 3540	328	3 ± 6	44	18 ± 10	26	
CC-4301-F1-M-011	200 ± 3540	328	14 ± 12	44	18 ± 10	26	
CC-4301-F1-M-012	200 ± 3540	328	25 ± 16	44	9 ± 7	26	
CC-4301-F1-M-013	200 ± 3540	328	24 ± 16	44	8 ± 7	26	
CC-4301-B1-M-014	-35 ± 2987	328	26 ± 17	44	10 ± 8	26	
Summary for Survey Unit # 4301 (14 detail records)							
<b>Average</b>	159		19		12		
<b>Minimum</b>	-35		3		5		
<b>Maximum</b>	330		32		18		
<b>Standard Deviation</b>	107		8		4		

Note: All results reported in dpm/100cm<sup>2</sup>.

## Structural Surfaces Survey Results

Building	CC	Survey Unit B301		Class 3			
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>				
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>		
			Activity	MDC	Activity	MDC	
CC-B301-F1-C-001	153 ± 3930	380	19 ± 14	44	14 ± 9	26	
CC-B301-F1-C-002	165 ± 3953	380	5 ± 7	44	18 ± 10	26	
CC-B301-F1-C-003	200 ± 4021	380	14 ± 12	44	11 ± 8	26	
CC-B301-F1-C-004	106 ± 3838	380	17 ± 13	44	14 ± 9	26	
CC-B301-F1-C-005	282 ± 4175	380	10 ± 10	44	8 ± 7	26	
CC-B301-F1-C-006	0 ± 3620	380	7 ± 9	44	21 ± 11	26	
CC-B301-F1-C-007	59 ± 3743	380	9 ± 10	44	10 ± 8	26	
CC-B301-F1-C-008	177 ± 3976	380	13 ± 12	44	9 ± 7	26	
CC-B301-F1-C-009	-12 ± 3595	380	16 ± 13	44	8 ± 7	26	
CC-B301-F1-C-010	400 ± 4386	380	10 ± 10	44	16 ± 10	26	
CC-B301-F1-C-011	247 ± 4110	380	13 ± 12	44	14 ± 9	26	
CC-B301-F1-C-012	306 ± 4218	380	18 ± 14	44	15 ± 9	26	
CC-B301-F1-C-013	59 ± 3743	380	17 ± 13	44	12 ± 8	26	
CC-B301-F1-C-014	177 ± 3976	380	22 ± 15	44	8 ± 7	26	
Summary for Survey Unit # B301 (14 detail records)							
<b>Average</b>	166		14		13		
<b>Minimum</b>	-12		5		8		
<b>Maximum</b>	400		22		21		
<b>Standard Deviation</b>	118		5		4		

Note: All results reported in dpm/100cm<sup>2</sup>.

## Structural Surfaces Survey Results

Building	Survey Unit B302		Class 3			
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
CC-B302-F1-C-001	85 ± 3784	377	18 ± 14	44	16 ± 10	26
CC-B302-F1-C-002	107 ± 3823	377	15 ± 12	44	12 ± 9	26
CC-B302-F1-C-003	-64 ± 3500	377	9 ± 10	44	16 ± 10	26
CC-B302-F1-C-004	-53 ± 3521	377	17 ± 14	44	11 ± 8	26
CC-B302-F1-C-005	-139 ± 3349	377	8 ± 9	44	20 ± 11	26
CC-B302-F1-C-006	96 ± 3804	377	28 ± 17	44	12 ± 8	26
CC-B302-F1-T-007	1109 ± 5340	377	25 ± 16	44	12 ± 9	26
CC-B302-F1-C-008	-75 ± 3479	377	15 ± 12	44	21 ± 11	26
CC-B302-F1-C-009	107 ± 3823	377	5 ± 7	44	23 ± 12	26
CC-B302-F1-M-010	21 ± 3665	377	22 ± 15	44	10 ± 8	26
CC-B302-F1-C-011	-11 ± 3604	377	18 ± 14	44	17 ± 10	26
CC-B302-F1-C-012	75 ± 3765	377	11 ± 11	44	17 ± 10	26
CC-B302-F1-C-013	64 ± 3745	377	19 ± 14	44	15 ± 10	26
CC-B302-F1-C-014	64 ± 3745	377	24 ± 16	44	17 ± 10	26
Summary for Survey Unit # B302 (14 detail records)						
<b>Average</b>	99		17		16	
<b>Minimum</b>	-139		5		10	
<b>Maximum</b>	1109		28		23	
<b>Standard Deviation</b>	301		7		4	
Summary for Building # CC (70 detail records)						
<b>Avg</b>	103		18		13	
<b>Min</b>	-153		3		5	
<b>Max</b>	1109		38		28	

**Note: All results reported in dpm/100cm<sup>2</sup>.**

## Structural Surfaces Survey Results

Building GG	Survey Unit 1301		Class 3			
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
GG-1301-F1-C-001	821 ± 4543	322	9 ± 10	44	17 ± 10	26
GG-1301-F1-C-002	533 ± 4080	322	19 ± 14	44	21 ± 11	26
GG-1301-F1-C-003	341 ± 3740	322	12 ± 11	44	17 ± 10	26
GG-1301-F1-C-004	735 ± 4411	322	13 ± 12	44	14 ± 9	26
GG-1301-F1-C-005	821 ± 4543	322	12 ± 11	44	22 ± 12	26
GG-1301-F1-C-006	480 ± 3989	322	11 ± 11	44	17 ± 10	26
GG-1301-F1-C-007	586 ± 4170	322	6 ± 8	44	15 ± 9	26
GG-1301-F1-C-008	394 ± 3838	322	22 ± 15	44	21 ± 11	26
GG-1301-F1-C-009	799 ± 4511	322	22 ± 15	44	18 ± 11	26
GG-1301-F1-C-010	32 ± 3115	322	20 ± 15	44	21 ± 11	26
GG-1301-F1-C-011	426 ± 3895	322	26 ± 17	44	13 ± 9	26
GG-1301-F1-C-012	394 ± 3838	322	22 ± 15	44	10 ± 8	26
GG-1301-F1-C-013	906 ± 4672	322	25 ± 16	44	13 ± 9	26
GG-1301-F1-C-014	405 ± 3857	322	20 ± 15	44	20 ± 11	26
Summary for Survey Unit # 1301 (14 detail records)						
<b>Average</b>	548		17		17	
<b>Minimum</b>	32		6		10	
<b>Maximum</b>	906		26		22	
<b>Standard Deviation</b>	244		6		4	

**Note: All results reported in dpm/100cm<sup>2</sup>.**

## Structural Surfaces Survey Results

Building GG	Survey Unit 2301			Class 3		
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
GG-2301-F1-M-001	432 ± 2431	1093	141 ± 39	44	11 ± 8	26
GG-2301-F1-M-002	270 ± 2319	1093	44 ± 22	44	13 ± 9	26
GG-2301-F1-M-003	270 ± 2319	1093	57 ± 25	44	12 ± 8	26
GG-2301-F1-M-004	-270 ± 1897	1093	33 ± 19	44	16 ± 10	26
GG-2301-F1-M-005	486 ± 2468	1093	27 ± 17	44	15 ± 9	26
GG-2301-F1-M-006	324 ± 2357	1093	129 ± 37	44	10 ± 8	26
GG-2301-F1-M-007	378 ± 2394	1093	65 ± 26	44	15 ± 9	26
GG-2301-F1-M-008	-162 ± 1989	1093	21 ± 15	44	18 ± 10	26
GG-2301-F1-M-009	594 ± 2539	1093	39 ± 20	44	15 ± 9	26
GG-2301-F1-M-010	594 ± 2539	1093	39 ± 20	44	12 ± 8	26
GG-2301-F1-M-011	-162 ± 1989	1093	17 ± 13	44	19 ± 11	26
GG-2301-F1-M-012	-216 ± 1944	1093	14 ± 12	44	9 ± 7	26
GG-2301-F1-M-013	162 ± 2241	1093	12 ± 11	44	12 ± 8	26
GG-2301-F1-M-014	0 ± 2119	1093	17 ± 13	44	18 ± 10	26
Summary for Survey Unit # 2301 (14 detail records)						
<b>Average</b>	193		47		14	
<b>Minimum</b>	-270		12		9	
<b>Maximum</b>	594		141		19	
<b>Standard Deviation</b>	304		41		3	

**Note: All results reported in dpm/100cm<sup>2</sup>.**

## Structural Surfaces Survey Results

Building GG	Survey Unit 2302			Class 3		
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u> Activity	MDC	<u>Carbon-14</u> Activity	MDC
GG-2302-F1-M-001	-270 ± 1897	1093	17 ± 13	44	22 ± 11	26
GG-2302-F1-M-002	-54 ± 2076	1093	10 ± 10	44	12 ± 8	26
GG-2302-F1-M-003	-216 ± 1944	1093	11 ± 11	44	16 ± 10	26
GG-2302-F1-M-004	270 ± 2319	1093	23 ± 16	44	10 ± 8	26
GG-2302-F1-M-005	-54 ± 2076	1093	33 ± 19	44	10 ± 8	26
GG-2302-F1-M-006	-54 ± 2076	1093	24 ± 16	44	17 ± 10	26
GG-2302-F1-M-007	432 ± 2431	1093	23 ± 16	44	13 ± 9	26
GG-2302-F1-M-008	216 ± 2280	1093	22 ± 15	44	21 ± 11	26
GG-2302-F1-M-009	594 ± 2539	1093	22 ± 15	44	18 ± 10	26
GG-2302-F1-M-010	54 ± 2160	1093	17 ± 13	44	13 ± 9	26
GG-2302-F1-M-011	540 ± 2503	1093	2 ± 5	44	23 ± 12	26
GG-2302-F1-M-012	378 ± 2394	1093	24 ± 16	44	13 ± 9	26
GG-2302-F1-M-013	54 ± 2160	1093	11 ± 11	44	13 ± 9	26
GG-2302-F1-M-014	162 ± 2241	1093	7 ± 9	44	18 ± 10	26
Summary for Survey Unit # 2302 (14 detail records)						
<b>Average</b>	147		18		16	
<b>Minimum</b>	-270		2		10	
<b>Maximum</b>	594		33		23	
<b>Standard Deviation</b>	271		8		4	

**Note: All results reported in dpm/100cm<sup>2</sup>.**

## Structural Surfaces Survey Results

Building GG	Survey Unit 2303			Class 3		
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u> Activity	MDC	<u>Carbon-14</u> Activity	MDC
GG-2303-F1-C-001	756 ± 2642	1093	9 ± 10	44	17 ± 10	26
GG-2303-F1-M-002	108 ± 2201	1093	35 ± 19	44	11 ± 8	26
GG-2303-F1-C-003	216 ± 2280	1093	29 ± 18	44	9 ± 7	26
GG-2303-F1-M-004	54 ± 2160	1093	21 ± 15	44	12 ± 8	26
GG-2303-F1-M-005	162 ± 2241	1093	26 ± 17	44	14 ± 9	26
GG-2303-F1-C-006	972 ± 2773	1093	16 ± 13	44	17 ± 10	26
GG-2303-F1-C-007	972 ± 2773	1093	19 ± 14	44	14 ± 9	26
GG-2303-F1-M-008	-54 ± 2076	1093	16 ± 13	44	11 ± 8	26
GG-2303-F1-C-009	918 ± 2741	1093	14 ± 12	44	16 ± 10	26
GG-2303-F1-C-010	810 ± 2675	1093	25 ± 16	44	14 ± 9	26
GG-2303-F1-C-011	648 ± 2573	1093	25 ± 16	44	7 ± 6	26
GG-2303-F1-C-012	1566 ± 3106	1093	11 ± 11	44	16 ± 10	26
GG-2303-F1-C-013	594 ± 2539	1093	14 ± 12	44	6 ± 6	26
GG-2303-F1-C-014	810 ± 2675	1093	11 ± 11	44	17 ± 10	26
<b>Summary for Survey Unit # 2303 (14 detail records)</b>						
<b>Average</b>	609		19		13	
<b>Minimum</b>	-54		9		6	
<b>Maximum</b>	1566		35		17	
<b>Standard Deviation</b>	458		8		4	

**Note: All results reported in dpm/100cm<sup>2</sup>.**



## Structural Surfaces Survey Results

Building GG	Survey Unit 2304				Class 3	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
GG-2304-F1-M-001	776 ± 9082	786	14 ± 12	44	15 ± 9	26
GG-2304-F1-C-002	1330 ± 10123	786	21 ± 15	44	12 ± 8	26
GG-2304-F1-C-003	748 ± 9027	786	17 ± 13	44	22 ± 11	26
GG-2304-F1-M-004	388 ± 8276	786	15 ± 13	44	10 ± 8	26
GG-2304-F1-M-005	360 ± 8216	786	26 ± 17	44	18 ± 10	26
GG-2304-F1-M-006	388 ± 8276	786	12 ± 11	44	14 ± 9	26
GG-2304-F1-C-007	665 ± 8860	786	23 ± 16	44	18 ± 10	26
GG-2304-F1-C-008	388 ± 8276	786	16 ± 13	44	10 ± 8	26
GG-2304-F1-C-009	1275 ± 10024	786	14 ± 12	44	9 ± 7	26
GG-2304-F1-C-010	1524 ± 10463	786	24 ± 16	44	11 ± 8	26
GG-2304-F1-M-011	416 ± 8336	786	25 ± 16	44	12 ± 8	26
GG-2304-F1-C-012	1607 ± 10605	786	15 ± 13	44	19 ± 11	26
GG-2304-F1-M-013	55 ± 7517	786	35 ± 19	44	19 ± 11	26
GG-2304-F1-C-014	1718 ± 10792	786	28 ± 17	44	16 ± 10	26
Summary for Survey Unit # 2304 (14 detail records)						
<b>Average</b>	831		20		15	
<b>Minimum</b>	55		12		9	
<b>Maximum</b>	1718		35		22	
<b>Standard Deviation</b>	550		7		4	

**Note: All results reported in dpm/100cm<sup>2</sup>.**

## Structural Surfaces Survey Results

Building GG	Survey Unit R301		Class 3			
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
GG-R301-F1-C-001	610 ± 10136	938	10 ± 10	44	20 ± 11	26
GG-R301-F1-C-002	1303 ± 11301	938	26 ± 17	44	11 ± 8	26
GG-R301-F1-C-003	1524 ± 11650	938	13 ± 12	44	26 ± 12	26
GG-R301-F1-C-004	998 ± 10804	938	22 ± 15	44	14 ± 9	26
GG-R301-F1-C-005	2189 ± 12637	938	24 ± 16	44	8 ± 7	26
GG-R301-F1-C-006	416 ± 9785	938	11 ± 11	44	8 ± 7	26
GG-R301-F1-C-007	1025 ± 10850	938	33 ± 19	44	9 ± 7	26
GG-R301-F1-C-008	277 ± 9526	938	18 ± 14	44	15 ± 9	26
GG-R301-F1-C-009	1081 ± 10942	938	33 ± 19	44	15 ± 10	26
GG-R301-F1-C-010	776 ± 10427	938	26 ± 16	44	11 ± 8	26
GG-R301-F1-C-011	1441 ± 11520	938	24 ± 16	44	18 ± 10	26
GG-R301-F1-C-012	1552 ± 11693	938	15 ± 13	44	25 ± 12	26
GG-R301-F1-C-013	1192 ± 11123	938	24 ± 16	44	16 ± 10	26
GG-R301-F1-C-014	610 ± 10136	938	21 ± 15	44	11 ± 8	26
Summary for Survey Unit # R301 (14 detail records)						
<b>Average</b>	1071		21		15	
<b>Minimum</b>	277		10		8	
<b>Maximum</b>	2189		33		26	
<b>Standard Deviation</b>	517		7		6	
Summary for Building # GG (84 detail records)						
<b>Avg</b>	567		24		15	
<b>Min</b>	-270		2		6	
<b>Max</b>	2189		141		26	

Note: All results reported in dpm/100cm<sup>2</sup>.

## Building Systems Final Status Survey Results

Building AA	Survey Unit 1DR1				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
AA-1DR1-D1-M-001			26 ± 17	44	12 ± 9	26
AA-1DR1-D1-M-002			21 ± 15	44	15 ± 9	26
AA-1DR1-D1-M-003			21 ± 15	44	15 ± 10	26
AA-1DR1-D3-M-004			38 ± 20	44	16 ± 10	26
AA-1DR1-D3-M-005			17 ± 13	44	15 ± 9	26
AA-1DR1-D1-M-006			33 ± 19	44	14 ± 9	26
AA-1DR1-D3-M-007			17 ± 13	44	17 ± 10	26
AA-1DR1-D3-M-008			21 ± 15	44	9 ± 7	26
AA-1DR1-D2-M-009			25 ± 16	44	13 ± 9	26
AA-1DR1-D2-M-010			23 ± 16	44	11 ± 8	26
AA-1DR1-D3-M-011			19 ± 14	44	10 ± 8	26
AA-1DR1-D3-M-012			12 ± 11	44	10 ± 8	26
AA-1DR1-D3-M-013			31 ± 18	44	7 ± 6	26
AA-1DR1-D3-M-014			19 ± 14	44	23 ± 12	26
Summary for Survey Unit # 1DR1 (14 detail records)						
<b>Average</b>			23		13	
<b>Minimum</b>			12		7	
<b>Maximum</b>			38		23	
<b>Standard Deviation</b>			7		4	

**Note: All activity results reported in dpm/100cm<sup>2</sup>**

## Building Systems Final Status Survey Results

Building AA	Survey Unit 1DR2				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
AA-1DR2-D2-M-001			8 ± 9	44	14 ± 9	26
AA-1DR2-D3-M-002			11 ± 11	44	19 ± 11	26
AA-1DR2-D3-M-003			4 ± 7	44	19 ± 11	26
AA-1DR2-D2-M-004			26 ± 17	44	6 ± 6	26
AA-1DR2-D3-M-005			18 ± 14	44	13 ± 9	26
AA-1DR2-D2-M-006			16 ± 13	44	15 ± 9	26
Summary for Survey Unit # 1DR2 (6 detail records)						
<b>Average</b>			14		14	
<b>Minimum</b>			4		6	
<b>Maximum</b>			26		19	
<b>Standard Deviation</b>			8		5	

**Note:** All activity results reported in dpm/100cm<sup>2</sup>

## Building Systems Final Status Survey Results

Building AA	Survey Unit 1VA1				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
AA-1VA1-V1-M-001			14 ± 12	44	16 ± 10	26
AA-1VA1-V1-M-002			23 ± 16	44	13 ± 9	26
AA-1VA1-V1-M-003			16 ± 13	44	14 ± 9	26
AA-1VA1-V1-M-004			2 ± 4	44	19 ± 11	26
AA-1VA1-V1-M-005			18 ± 14	44	9 ± 7	26
AA-1VA1-V1-M-006			22 ± 15	44	12 ± 9	26
AA-1VA1-V1-M-007			17 ± 13	44	18 ± 10	26
AA-1VA1-V1-M-008			21 ± 15	44	11 ± 8	26
AA-1VA1-V1-M-009			15 ± 13	44	22 ± 11	26
AA-1VA1-V1-M-010			60 ± 25	44	15 ± 9	26
AA-1VA1-V1-M-011			37 ± 20	44	8 ± 7	26
AA-1VA1-V1-M-012			17 ± 13	44	16 ± 10	26
Summary for Survey Unit # 1VA1 (12 detail records)						
<b>Average</b>			22		14	
<b>Minimum</b>			2		8	
<b>Maximum</b>			60		22	
<b>Standard Deviation</b>			14		4	

**Note: All activity results reported in dpm/100cm<sup>2</sup>**

## Building Systems Final Status Survey Results

Building AA	Survey Unit 1VE1				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
AA-1VE1-E2-M-001			26 ± 17	44	12 ± 8	26
AA-1VE1-E2-M-002			20 ± 14	44	11 ± 8	26
AA-1VE1-E2-M-003			35 ± 19	44	16 ± 10	26
AA-1VE1-E1-M-004			30 ± 18	44	13 ± 9	26
AA-1VE1-E1-M-005			37 ± 20	44	25 ± 12	26
AA-1VE1-E1-M-006			26 ± 17	44	22 ± 11	26
AA-1VE1-E1-M-007			10 ± 10	44	14 ± 9	26
AA-1VE1-E1-M-008			23 ± 16	44	16 ± 10	26
AA-1VE1-E1-M-009			16 ± 13	44	15 ± 9	26
AA-1VE1-E2-M-010			18 ± 14	44	18 ± 11	26
AA-1VE1-E1-M-011			42 ± 21	44	14 ± 9	26
AA-1VE1-E2-M-012			6 ± 8	44	22 ± 11	26
AA-1VE1-E1-M-013			19 ± 14	44	9 ± 7	26
AA-1VE1-E1-M-014			16 ± 13	44	12 ± 8	26
AA-1VE1-E1-M-015			19 ± 14	44	25 ± 12	26
Summary for Survey Unit # 1VE1 (15 detail records)						
<b>Average</b>			23		16	
<b>Minimum</b>			6		9	
<b>Maximum</b>			42		25	
<b>Standard Deviation</b>			10		5	

**Note: All activity results reported in dpm/100cm<sup>2</sup>**

## Building Systems Final Status Survey Results

Building AA	Survey Unit 1VE2				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
AA-1VE2-E2-M-001			14 ± 12	44	9 ± 7	26
AA-1VE2-E2-M-002			13 ± 12	44	9 ± 7	26
AA-1VE2-E2-M-003			25 ± 16	44	17 ± 10	26
AA-1VE2-E2-M-004			4 ± 7	44	11 ± 8	26
AA-1VE2-E2-M-005			37 ± 20	44	17 ± 10	26
AA-1VE2-E2-M-006			23 ± 16	44	10 ± 8	26
AA-1VE2-E2-M-007			26 ± 17	44	14 ± 9	26
AA-1VE2-E2-M-008			9 ± 10	44	12 ± 9	26
AA-1VE2-E2-M-009			23 ± 16	44	10 ± 8	26
AA-1VE2-E2-M-010			11 ± 11	44	18 ± 10	26
AA-1VE2-E2-M-011			16 ± 13	44	11 ± 8	26
AA-1VE2-E2-M-012			28 ± 17	44	15 ± 10	26
AA-1VE2-E2-M-013			37 ± 20	44	11 ± 8	26
AA-1VE2-E2-M-014			30 ± 18	44	18 ± 10	26
AA-1VE2-E2-M-015			21 ± 15	44	15 ± 9	26
Summary for Survey Unit # 1VE2 (15 detail records)						
<b>Average</b>			21		13	
<b>Minimum</b>			4		9	
<b>Maximum</b>			37		18	
<b>Standard Deviation</b>			10		3	

**Note: All activity results reported in dpm/100cm<sup>2</sup>**

## Building Systems Final Status Survey Results

Building AA	Survey Unit 2DR1				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
AA-2DR1-D1-M-001			8 ± 9	44	6 ± 6	26
AA-2DR1-D1-M-002			10 ± 10	44	13 ± 9	26
AA-2DR1-D1-M-003			13 ± 12	44	13 ± 9	26
AA-2DR1-D1-M-004			13 ± 12	44	19 ± 11	26
AA-2DR1-D3-M-005			2 ± 5	44	10 ± 8	26
AA-2DR1-D3-M-006			12 ± 11	44	9 ± 7	26
AA-2DR1-D1-M-007			18 ± 14	44	17 ± 10	26
AA-2DR1-D1-M-008			24 ± 16	44	13 ± 9	26
AA-2DR1-D3-M-009			22 ± 15	44	16 ± 10	26
AA-2DR1-D1-M-010			23 ± 16	44	18 ± 10	26
AA-2DR1-D1-M-011			31 ± 18	44	18 ± 10	26
AA-2DR1-D3-M-012			11 ± 11	44	13 ± 9	26
AA-2DR1-D3-M-013			6 ± 8	44	14 ± 9	26
AA-2DR1-D1-M-014			6 ± 8	44	12 ± 8	26
AA-2DR1-D1-M-015			10 ± 10	44	17 ± 10	26
AA-2DR1-D1-M-016			23 ± 16	44	10 ± 8	26
AA-2DR1-D1-M-017			18 ± 14	44	14 ± 9	26
AA-2DR1-D2-M-018			32 ± 18	44	10 ± 8	26
AA-2DR1-D1-M-019			22 ± 15	44	12 ± 9	26
AA-2DR1-D1-M-020			28 ± 17	44	14 ± 9	26
AA-2DR1-D1-M-021			21 ± 15	44	16 ± 10	26
AA-2DR1-D1-M-022			38 ± 20	44	13 ± 9	26
AA-2DR1-D3-M-023			13 ± 12	44	24 ± 12	26
AA-2DR1-D3-M-024			11 ± 11	44	19 ± 11	26
AA-2DR1-D1-M-025			17 ± 14	44	19 ± 11	26

**Note: All activity results reported in dpm/100cm<sup>2</sup>**



## Building Systems Final Status Survey Results

Building AA	Survey Unit 2DR1				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
AA-2DR1-D1-M-026			17 ± 13	44	14 ± 9	26
AA-2DR1-D3-M-027			19 ± 14	44	16 ± 10	26
AA-2DR1-D1-M-028			13 ± 12	44	23 ± 12	26
AA-2DR1-D1-M-029			17 ± 13	44	17 ± 10	26
AA-2DR1-D3-M-030			19 ± 14	44	13 ± 9	26
AA-2DR1-D3-M-031			22 ± 15	44	15 ± 9	26
AA-2DR1-D1-M-032			23 ± 16	44	11 ± 8	26
AA-2DR1-D1-M-033			9 ± 10	44	25 ± 12	26
AA-2DR1-D1-M-034			5 ± 8	44	16 ± 10	26
AA-2DR1-D1-M-035			11 ± 11	44	18 ± 10	26
AA-2DR1-D1-M-036			9 ± 10	44	12 ± 8	26
AA-2DR1-D1-M-037			11 ± 11	44	20 ± 11	26
AA-2DR1-D3-M-038			11 ± 11	44	11 ± 8	26
AA-2DR1-D3-M-039			10 ± 10	44	9 ± 7	26
AA-2DR1-D3-M-040			12 ± 11	44	14 ± 9	26
AA-2DR1-D1-M-041			4 ± 7	44	19 ± 11	26
AA-2DR1-D1-M-042			12 ± 11	44	8 ± 7	26
AA-2DR1-D1-M-043			15 ± 13	44	13 ± 9	26
AA-2DR1-D1-M-044			5 ± 7	44	8 ± 7	26
AA-2DR1-D1-M-045			8 ± 9	44	19 ± 11	26
AA-2DR1-D1-M-046			16 ± 13	44	20 ± 11	26
AA-2DR1-D1-M-047			14 ± 12	44	18 ± 10	26
AA-2DR1-D1-M-048			9 ± 10	44	9 ± 7	26
AA-2DR1-D3-M-049			9 ± 10	44	12 ± 8	26
AA-2DR1-D3-M-050			14 ± 12	44	21 ± 11	26

**Note: All activity results reported in dpm/100cm<sup>2</sup>**

## Building Systems Final Status Survey Results

Building AA	Survey Unit 2DR1				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
AA-2DR1-D3-M-051			20 ± 15	44	15 ± 9	26
AA-2DR1-D1-M-052			6 ± 8	44	23 ± 12	26
AA-2DR1-D1-M-053			20 ± 15	44	11 ± 8	26
AA-2DR1-D1-M-054			26 ± 17	44	10 ± 8	26
AA-2DR1-D1-M-055			16 ± 13	44	20 ± 11	26
AA-2DR1-D1-M-056			32 ± 18	44	12 ± 8	26
AA-2DR1-D1-M-057			1 ± 3	44	23 ± 12	26
AA-2DR1-D3-M-058			13 ± 12	44	8 ± 7	26
AA-2DR1-D3-M-059			11 ± 11	44	15 ± 10	26
AA-2DR1-D1-M-060			8 ± 9	44	11 ± 8	26
AA-2DR1-D1-M-061			20 ± 15	44	19 ± 11	26
AA-2DR1-D3-M-062			8 ± 9	44	18 ± 10	26
AA-2DR1-D1-M-063			26 ± 17	44	12 ± 8	26
AA-2DR1-D1-M-064			21 ± 15	44	21 ± 11	26
AA-2DR1-D3-M-065			11 ± 11	44	21 ± 11	26
AA-2DR1-D3-M-066			25 ± 16	44	18 ± 10	26
AA-2DR1-D1-M-067			5 ± 7	44	15 ± 10	26
AA-2DR1-D1-M-068			16 ± 13	44	16 ± 10	26
AA-2DR1-D1-M-069			21 ± 15	44	6 ± 6	26
AA-2DR1-D1-M-070			12 ± 11	44	21 ± 11	26
AA-2DR1-D1-M-071			26 ± 17	44	19 ± 11	26
AA-2DR1-D1-M-072			9 ± 10	44	11 ± 8	26
AA-2DR1-D1-M-073			24 ± 16	44	14 ± 9	26
AA-2DR1-D1-M-074			14 ± 12	44	21 ± 11	26
AA-2DR1-D3-M-075			21 ± 15	44	11 ± 8	26

**Note: All activity results reported in dpm/100cm<sup>2</sup>**

## Building Systems Final Status Survey Results

Building AA	Survey Unit 2DR1				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
AA-2DR1-D3-M-076			11 ± 11	44	13 ± 9	26
AA-2DR1-D1-M-077			16 ± 13	44	12 ± 8	26
AA-2DR1-D1-M-078			18 ± 14	44	20 ± 11	26
AA-2DR1-D3-M-079			19 ± 14	44	16 ± 10	26
AA-2DR1-D1-M-080			11 ± 11	44	14 ± 9	26
AA-2DR1-D1-M-081			17 ± 13	44	15 ± 9	26
AA-2DR1-D3-M-082			26 ± 17	44	15 ± 9	26
AA-2DR1-D3-M-083			19 ± 14	44	23 ± 12	26
AA-2DR1-D1-M-084			20 ± 15	44	10 ± 8	26
AA-2DR1-D1-M-085			15 ± 13	44	14 ± 9	26
AA-2DR1-D1-M-086			22 ± 15	44	11 ± 8	26
AA-2DR1-D1-M-087			24 ± 16	44	13 ± 9	26
<hr/>						
Summary for Survey Unit # 2DR1 (87 detail records)						
<b>Average</b>			16		15	
<b>Minimum</b>			1		6	
<b>Maximum</b>			38		25	
<b>Standard Deviation</b>			7		4	

**Note: All activity results reported in dpm/100cm<sup>2</sup>**

## Building Systems Final Status Survey Results

Building AA	Survey Unit 2DR2				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
AA-2DR2-D1-M-001			9 ± 10	44	19 ± 11	26
AA-2DR2-D1-M-002			18 ± 14	44	18 ± 10	26
AA-2DR2-D1-M-003			8 ± 9	44	13 ± 9	26
AA-2DR2-D1-M-004			35 ± 19	44	15 ± 9	26
AA-2DR2-D3-M-005			15 ± 13	44	12 ± 9	26
AA-2DR2-D3-M-006			23 ± 16	44	14 ± 9	26
AA-2DR2-D1-M-007			56 ± 24	44	27 ± 13	26
AA-2DR2-D1-M-008			25 ± 16	44	9 ± 7	26
AA-2DR2-D3-M-009			25 ± 16	44	7 ± 7	26
AA-2DR2-D1-M-010			17 ± 13	44	15 ± 9	26
AA-2DR2-D1-M-011			17 ± 13	44	15 ± 9	26
AA-2DR2-D3-M-012			29 ± 18	44	13 ± 9	26
AA-2DR2-D3-M-013			23 ± 16	44	18 ± 10	26
AA-2DR2-D1-M-014			18 ± 14	44	17 ± 10	26
AA-2DR2-D1-M-015			16 ± 13	44	19 ± 11	26
AA-2DR2-D1-M-016			21 ± 15	44	7 ± 7	26
AA-2DR2-D1-M-017			9 ± 10	44	14 ± 9	26
AA-2DR2-D1-M-018			16 ± 13	44	10 ± 8	26
AA-2DR2-D1-M-019			11 ± 11	44	16 ± 10	26
AA-2DR2-D1-M-020			19 ± 14	44	16 ± 10	26
AA-2DR2-D1-M-021			36 ± 20	44	8 ± 7	26
AA-2DR2-D3-M-022			21 ± 15	44	9 ± 7	26
AA-2DR2-D3-M-023			32 ± 18	44	10 ± 8	26
AA-2DR2-D1-M-024			19 ± 14	44	16 ± 10	26
AA-2DR2-D1-M-025			19 ± 14	44	15 ± 9	26

**Note: All activity results reported in dpm/100cm<sup>2</sup>**

## Building Systems Final Status Survey Results

Building AA	Survey Unit 2DR2				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
AA-2DR2-D3-M-026			29 ± 18	44	21 ± 11	26
AA-2DR2-D1-M-027			20 ± 15	44	10 ± 8	26
AA-2DR2-D1-M-028			17 ± 14	44	11 ± 8	26
AA-2DR2-D3-M-029			24 ± 16	44	5 ± 5	26
AA-2DR2-D3-M-030			17 ± 13	44	6 ± 6	26
AA-2DR2-D1-M-031			20 ± 15	44	19 ± 11	26
AA-2DR2-D1-M-032			15 ± 13	44	20 ± 11	26
AA-2DR2-D1-M-033			16 ± 13	44	12 ± 9	26
AA-2DR2-D1-M-034			25 ± 16	44	11 ± 8	26
AA-2DR2-D1-M-035			9 ± 10	44	19 ± 11	26
AA-2DR2-D1-M-036			31 ± 18	44	13 ± 9	26
AA-2DR2-D1-M-037			10 ± 10	44	17 ± 10	26
AA-2DR2-D1-M-038			5 ± 7	44	10 ± 8	26
AA-2DR2-D3-M-039			14 ± 12	44	17 ± 10	26
AA-2DR2-D3-M-040			12 ± 11	44	9 ± 7	26
AA-2DR2-D1-M-041			20 ± 15	44	10 ± 8	26
AA-2DR2-D1-M-042			21 ± 15	44	21 ± 11	26
AA-2DR2-D3-M-043			28 ± 17	44	17 ± 10	26
AA-2DR2-D1-M-044			16 ± 13	44	10 ± 8	26
AA-2DR2-D1-M-045			24 ± 16	44	14 ± 9	26
AA-2DR2-D3-M-046			11 ± 11	44	21 ± 11	26
AA-2DR2-D3-M-047			30 ± 18	44	16 ± 10	26
AA-2DR2-D1-M-048			9 ± 10	44	20 ± 11	26
AA-2DR2-D1-M-049			21 ± 15	44	18 ± 10	26
AA-2DR2-D1-M-050			11 ± 11	44	12 ± 9	26

**Note: All activity results reported in dpm/100cm<sup>2</sup>**

## Building Systems Final Status Survey Results

Building AA	Survey Unit 2DR2				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
AA-2DR2-D1-M-051			12 ± 12	44	24 ± 12	26
AA-2DR2-D3-M-052			17 ± 13	44	15 ± 9	26
AA-2DR2-D4-M-053			14 ± 12	44	17 ± 10	26
AA-2DR2-D3-M-054			10 ± 11	44	11 ± 8	26
AA-2DR2-D4-M-055			16 ± 13	44	21 ± 11	26
AA-2DR2-D4-M-056			42 ± 21	44	12 ± 8	26
AA-2DR2-D3-M-057			3 ± 6	44	13 ± 9	26
AA-2DR2-D1-M-058			10 ± 10	44	13 ± 9	26
AA-2DR2-D3-M-059			17 ± 13	44	12 ± 9	26
AA-2DR2-D1-M-060			8 ± 9	44	20 ± 11	26
AA-2DR2-D3-M-061			12 ± 11	44	14 ± 9	26
AA-2DR2-D3-M-062			19 ± 14	44	5 ± 5	26
AA-2DR2-D4-M-063			24 ± 16	44	14 ± 9	26
AA-2DR2-D4-M-064			19 ± 14	44	12 ± 9	26
AA-2DR2-D3-M-065			14 ± 12	44	11 ± 8	26
AA-2DR2-D4-M-066			23 ± 16	44	13 ± 9	26
AA-2DR2-D4-M-067			19 ± 14	44	12 ± 8	26
AA-2DR2-D4-M-068			18 ± 14	44	9 ± 7	26
AA-2DR2-D3-M-069			23 ± 16	44	18 ± 10	26
AA-2DR2-D3-M-070			9 ± 10	44	14 ± 9	26
AA-2DR2-D4-M-071			20 ± 15	44	20 ± 11	26
AA-2DR2-D3-M-072			10 ± 10	44	15 ± 10	26
AA-2DR2-D3-M-073			28 ± 17	44	12 ± 8	26
AA-2DR2-D3-M-074			22 ± 15	44	11 ± 8	26
AA-2DR2-D3-M-075			12 ± 11	44	6 ± 6	26

**Note: All activity results reported in dpm/100cm<sup>2</sup>**

## Building Systems Final Status Survey Results

Building AA	Survey Unit 2DR2				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
AA-2DR2-D3-M-076			28 ± 17	44	6 ± 6	26
AA-2DR2-D3-M-077			20 ± 15	44	14 ± 9	26
AA-2DR2-D3-M-078			14 ± 12	44	17 ± 10	26
AA-2DR2-D1-M-079			16 ± 13	44	9 ± 7	26
AA-2DR2-D3-M-080			29 ± 17	44	12 ± 8	26
AA-2DR2-D2-M-081			15 ± 13	44	14 ± 9	26
AA-2DR2-D2-M-082			12 ± 11	44	10 ± 8	26
Summary for Survey Unit # 2DR2 (82 detail records)						
<b>Average</b>			19		14	
<b>Minimum</b>			3		5	
<b>Maximum</b>			56		27	
<b>Standard Deviation</b>			9		5	

**Note:** All activity results reported in dpm/100cm<sup>2</sup>

## Building Systems Final Status Survey Results

Building AA	Survey Unit 2VA1				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
AA-2VA1-V1-M-001			24 ± 16	44	5 ± 6	26
AA-2VA1-V1-M-002			9 ± 10	44	19 ± 11	26
AA-2VA1-V1-M-003			14 ± 12	44	17 ± 10	26
AA-2VA1-V1-M-004			4 ± 6	44	31 ± 14	26
AA-2VA1-V1-M-005			34 ± 19	44	19 ± 11	26
AA-2VA1-V1-M-006			11 ± 11	44	15 ± 10	26
AA-2VA1-V1-M-007			6 ± 8	44	12 ± 8	26
AA-2VA1-V1-M-008			5 ± 7	44	17 ± 10	26
AA-2VA1-V1-M-009			3 ± 6	44	22 ± 11	26
AA-2VA1-V1-M-010			17 ± 13	44	9 ± 7	26
AA-2VA1-V1-M-011			17 ± 14	44	15 ± 9	26
AA-2VA1-V1-M-012			17 ± 13	44	20 ± 11	26
AA-2VA1-V1-M-013			7 ± 9	44	15 ± 10	26
AA-2VA1-V1-M-014			30 ± 18	44	15 ± 9	26
AA-2VA1-V1-M-015			15 ± 13	44	14 ± 9	26
AA-2VA1-V1-M-016			13 ± 12	44	14 ± 9	26
AA-2VA1-V1-M-017			13 ± 12	44	21 ± 11	26
AA-2VA1-V1-M-018			13 ± 12	44	14 ± 9	26
AA-2VA1-V1-M-019			26 ± 17	44	19 ± 11	26
AA-2VA1-V1-M-020			13 ± 12	44	13 ± 9	26
AA-2VA1-V1-M-021			25 ± 16	44	11 ± 8	26
AA-2VA1-V1-M-022			23 ± 16	44	11 ± 8	26
AA-2VA1-V1-M-023			6 ± 8	44	13 ± 9	26
AA-2VA1-V1-M-024			11 ± 11	44	22 ± 11	26
AA-2VA1-V1-M-025			18 ± 14	44	10 ± 8	26

**Note: All activity results reported in dpm/100cm<sup>2</sup>**



## Building Systems Final Status Survey Results

Building AA	Survey Unit 2VA1				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
AA-2VA1-V1-M-026			10 ± 10	44	15 ± 10	26
AA-2VA1-V1-M-027			8 ± 9	44	12 ± 8	26
AA-2VA1-V1-M-028			21 ± 15	44	15 ± 9	26
AA-2VA1-V1-M-029			8 ± 9	44	14 ± 9	26
AA-2VA1-V1-M-030			22 ± 15	44	11 ± 8	26
AA-2VA1-V1-M-031			5 ± 7	44	17 ± 10	26
AA-2VA1-V1-M-032			22 ± 15	44	5 ± 5	26
AA-2VA1-V1-M-033			16 ± 13	44	10 ± 8	26
AA-2VA1-V1-M-034			14 ± 12	44	12 ± 9	26
AA-2VA1-V1-M-035			56 ± 24	44	14 ± 9	26
AA-2VA1-V1-M-036			15 ± 13	44	12 ± 9	26
AA-2VA1-V1-M-037			21 ± 15	44	17 ± 10	26
AA-2VA1-V1-M-038			14 ± 12	44	14 ± 9	26
AA-2VA1-V1-M-039			10 ± 11	44	15 ± 10	26
AA-2VA1-V1-M-040			17 ± 13	44	15 ± 9	26
AA-2VA1-V1-M-041			11 ± 11	44	17 ± 10	26
AA-2VA1-V1-M-042			24 ± 16	44	19 ± 11	26
AA-2VA1-V1-M-043			9 ± 10	44	19 ± 11	26
AA-2VA1-V1-M-044			17 ± 14	44	15 ± 10	26
AA-2VA1-V1-M-045			50 ± 23	44	20 ± 11	26
AA-2VA1-V1-M-046			21 ± 15	44	15 ± 9	26
AA-2VA1-V1-M-047			13 ± 12	44	19 ± 11	26
AA-2VA1-V1-M-048			9 ± 10	44	16 ± 10	26
AA-2VA1-V1-M-049			15 ± 13	44	21 ± 11	26
AA-2VA1-V1-M-050			17 ± 13	44	15 ± 9	26

**Note: All activity results reported in dpm/100cm<sup>2</sup>**

## Building Systems Final Status Survey Results

Building AA	Survey Unit 2VA1				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
AA-2VA1-V1-M-051			5 ± 7	44	21 ± 11	26
AA-2VA1-V1-M-052			31 ± 18	44	15 ± 10	26
AA-2VA1-V1-M-053			22 ± 15	44	12 ± 9	26
AA-2VA1-V1-M-054			20 ± 15	44	17 ± 10	26
AA-2VA1-V1-M-055			8 ± 9	44	14 ± 9	26
AA-2VA1-V1-M-056			21 ± 15	44	16 ± 10	26
AA-2VA1-V1-M-057			28 ± 17	44	15 ± 10	26
AA-2VA1-V1-M-058			20 ± 15	44	11 ± 8	26
AA-2VA1-V1-M-059			27 ± 17	44	11 ± 8	26
AA-2VA1-V1-M-060			7 ± 8	44	9 ± 7	26
AA-2VA1-V1-M-061			18 ± 14	44	11 ± 8	26
AA-2VA1-V1-M-062			15 ± 13	44	12 ± 8	26
AA-2VA1-V1-M-063			14 ± 12	44	16 ± 10	26
AA-2VA1-V1-M-064			33 ± 19	44	14 ± 9	26
AA-2VA1-V1-M-065			14 ± 12	44	10 ± 8	26
AA-2VA1-V1-M-066			31 ± 18	44	12 ± 8	26
AA-2VA1-V1-M-067			19 ± 14	44	11 ± 8	26
AA-2VA1-V1-M-068			15 ± 13	44	13 ± 9	26
AA-2VA1-V1-M-069			6 ± 8	44	16 ± 10	26
AA-2VA1-V1-M-070			10 ± 10	44	12 ± 8	26
AA-2VA1-V1-M-071			20 ± 15	44	15 ± 10	26
AA-2VA1-V1-M-072			23 ± 16	44	12 ± 9	26
AA-2VA1-V1-M-073			19 ± 14	44	20 ± 11	26
AA-2VA1-V1-M-074			27 ± 17	44	16 ± 10	26
AA-2VA1-V1-M-075			12 ± 11	44	11 ± 8	26

**Note: All activity results reported in dpm/100cm<sup>2</sup>**

## Building Systems Final Status Survey Results

Building AA	Survey Unit 2VA1				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
AA-2VA1-V1-M-076			8 ± 9	44	12 ± 8	26
AA-2VA1-V1-M-077			10 ± 10	44	8 ± 7	26
AA-2VA1-V1-M-078			11 ± 11	44	14 ± 9	26
AA-2VA1-V1-M-079			10 ± 10	44	15 ± 10	26
AA-2VA1-V1-M-080			19 ± 14	44	13 ± 9	26
AA-2VA1-V1-M-081			10 ± 11	44	14 ± 9	26
AA-2VA1-V1-M-082			21 ± 15	44	12 ± 9	26
AA-2VA1-V1-M-083			16 ± 13	44	12 ± 8	26
AA-2VA1-V1-M-084			6 ± 8	44	20 ± 11	26
AA-2VA1-V1-M-085			4 ± 6	44	18 ± 10	26
AA-2VA1-V1-M-086			17 ± 13	44	11 ± 8	26
AA-2VA1-V1-M-087			13 ± 12	44	22 ± 11	26
AA-2VA1-V1-M-088			16 ± 13	44	19 ± 11	26
AA-2VA1-V1-M-089			6 ± 8	44	13 ± 9	26
AA-2VA1-V1-M-090			17 ± 13	44	14 ± 9	26
AA-2VA1-V1-M-091			11 ± 11	44	19 ± 11	26
AA-2VA1-V1-M-092			7 ± 8	44	18 ± 10	26
AA-2VA1-V1-M-093			17 ± 14	44	23 ± 12	26
AA-2VA1-V1-M-094			19 ± 14	44	16 ± 10	26
AA-2VA1-V1-M-095			24 ± 16	44	5 ± 5	26
AA-2VA1-V1-M-096			14 ± 12	44	17 ± 10	26
AA-2VA1-V1-M-097			18 ± 14	44	11 ± 8	26
AA-2VA1-V1-M-098			26 ± 17	44	16 ± 10	26
AA-2VA1-V1-M-099			20 ± 15	44	20 ± 11	26
AA-2VA1-V1-M-100			17 ± 14	44	15 ± 10	26

**Note: All activity results reported in dpm/100cm<sup>2</sup>**

## Building Systems Final Status Survey Results

Building AA	Survey Unit 2VA1				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
AA-2VA1-V1-M-101			22 ± 15	44	13 ± 9	26
AA-2VA1-V1-M-102			12 ± 11	44	17 ± 10	26
AA-2VA1-V1-M-103			21 ± 15	44	17 ± 10	26
AA-2VA1-V1-M-104			10 ± 10	44	22 ± 12	26
AA-2VA1-V1-M-105			15 ± 13	44	4 ± 5	26
AA-2VA1-V1-M-106			7 ± 9	44	15 ± 10	26
AA-2VA1-V1-M-107			11 ± 11	44	19 ± 11	26
AA-2VA1-V1-M-108			22 ± 15	44	11 ± 8	26
AA-2VA1-V1-M-109			14 ± 12	44	16 ± 10	26
AA-2VA1-V1-M-110			9 ± 10	44	9 ± 7	26
AA-2VA1-V1-M-111			22 ± 15	44	11 ± 8	26
AA-2VA1-V1-M-112			10 ± 10	44	22 ± 12	26
AA-2VA1-V1-M-113			11 ± 11	44	21 ± 11	26
Summary for Survey Unit # 2VA1 (113 detail records)						
<b>Average</b>			16		15	
<b>Minimum</b>			3		4	
<b>Maximum</b>			56		31	
<b>Standard Deviation</b>			9		4	

**Note: All activity results reported in dpm/100cm<sup>2</sup>**

## Building Systems Final Status Survey Results

Building AA	Survey Unit 2VA2				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
AA-2VA2-V1-M-001			32 ± 19	44	6 ± 6	26
AA-2VA2-V1-M-002			3 ± 5	44	18 ± 10	26
AA-2VA2-V1-M-003			21 ± 15	44	15 ± 10	26
AA-2VA2-V1-M-004			16 ± 13	44	10 ± 8	26
AA-2VA2-V1-M-005			21 ± 15	44	7 ± 7	26
AA-2VA2-V1-M-006			8 ± 9	44	14 ± 9	26
AA-2VA2-V1-M-007			19 ± 14	44	23 ± 12	26
AA-2VA2-V1-M-008			25 ± 16	44	11 ± 8	26
AA-2VA2-V1-M-009			21 ± 15	44	10 ± 8	26
AA-2VA2-V1-M-010			9 ± 10	44	16 ± 10	26
AA-2VA2-V1-M-011			21 ± 15	44	9 ± 8	26
AA-2VA2-V1-M-012			14 ± 12	44	23 ± 12	26
AA-2VA2-V1-M-013			7 ± 9	44	7 ± 6	26
AA-2VA2-V1-M-014			5 ± 7	44	8 ± 7	26
AA-2VA2-V1-M-015			15 ± 13	44	10 ± 8	26
AA-2VA2-V1-M-016			16 ± 13	44	9 ± 7	26
AA-2VA2-V1-M-017			13 ± 12	44	10 ± 8	26
AA-2VA2-V1-M-018			20 ± 15	44	11 ± 8	26
AA-2VA2-V1-M-019			9 ± 10	44	15 ± 10	26
AA-2VA2-V1-M-020			18 ± 14	44	20 ± 11	26
AA-2VA2-V1-M-021			24 ± 16	44	19 ± 11	26
AA-2VA2-V1-M-022			10 ± 10	44	16 ± 10	26
AA-2VA2-V1-M-023			9 ± 10	44	18 ± 10	26
AA-2VA2-V1-M-024			12 ± 11	44	16 ± 10	26
AA-2VA2-V1-M-025			28 ± 17	44	18 ± 10	26

**Note: All activity results reported in dpm/100cm<sup>2</sup>**

## Building Systems Final Status Survey Results

Building AA	Survey Unit 2VA2				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
AA-2VA2-V1-M-026			24 ± 16	44	16 ± 10	26
AA-2VA2-V1-M-027			30 ± 18	44	17 ± 10	26
AA-2VA2-V1-M-028			20 ± 15	44	11 ± 8	26
AA-2VA2-V1-M-029			39 ± 20	44	13 ± 9	26
AA-2VA2-V1-M-030			13 ± 12	44	12 ± 9	26
AA-2VA2-V1-M-031			28 ± 17	44	14 ± 9	26
AA-2VA2-V1-M-032			27 ± 17	44	15 ± 10	26
AA-2VA2-V1-M-033			26 ± 17	44	14 ± 9	26
AA-2VA2-V1-M-034			21 ± 15	44	14 ± 9	26
AA-2VA2-V1-M-035			17 ± 14	44	12 ± 9	26
AA-2VA2-V1-M-036			14 ± 12	44	10 ± 8	26
AA-2VA2-V1-M-037			15 ± 13	44	12 ± 9	26
AA-2VA2-V1-M-038			19 ± 14	44	14 ± 9	26
AA-2VA2-V1-M-039			28 ± 17	44	15 ± 10	26
AA-2VA2-V1-M-040			30 ± 18	44	16 ± 10	26
AA-2VA2-V1-M-041			29 ± 18	44	11 ± 8	26
AA-2VA2-V1-M-042			11 ± 11	44	9 ± 7	26
AA-2VA2-V1-M-043			29 ± 18	44	9 ± 7	26
AA-2VA2-V1-M-044			20 ± 14	44	11 ± 8	26
AA-2VA2-V1-M-045			33 ± 19	44	14 ± 9	26
AA-2VA2-V1-M-046			7 ± 9	44	15 ± 10	26
AA-2VA2-V1-M-047			15 ± 12	44	23 ± 12	26
AA-2VA2-V1-M-048			38 ± 20	44	21 ± 11	26
AA-2VA2-V1-M-049			6 ± 8	44	12 ± 8	26
AA-2VA2-V1-M-050			23 ± 16	44	14 ± 9	26

**Note: All activity results reported in dpm/100cm<sup>2</sup>**

## Building Systems Final Status Survey Results

Building AA	Survey Unit 2VA2				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
AA-2VA2-V1-M-051			28 ± 17	44	17 ± 10	26
AA-2VA2-V1-M-052			18 ± 14	44	17 ± 10	26
AA-2VA2-V1-M-053			19 ± 14	44	9 ± 7	26
AA-2VA2-V1-M-054			20 ± 15	44	18 ± 10	26
AA-2VA2-V1-M-055			9 ± 10	44	20 ± 11	26
AA-2VA2-V1-M-056			13 ± 12	44	12 ± 9	26
AA-2VA2-V1-M-057			39 ± 20	44	17 ± 10	26
AA-2VA2-V1-M-058			17 ± 13	44	14 ± 9	26
AA-2VA2-V1-M-059			19 ± 14	44	24 ± 12	26
AA-2VA2-V1-M-060			32 ± 19	44	15 ± 10	26
AA-2VA2-V1-M-061			36 ± 20	44	2 ± 4	26
AA-2VA2-V1-M-062			24 ± 16	44	20 ± 11	26
AA-2VA2-V1-M-063			20 ± 15	44	11 ± 8	26
AA-2VA2-V1-M-064			20 ± 14	44	13 ± 9	26
AA-2VA2-V1-M-065			11 ± 11	44	10 ± 8	26
AA-2VA2-V1-M-066			18 ± 14	44	13 ± 9	26
AA-2VA2-V1-M-067			15 ± 13	44	12 ± 9	26
AA-2VA2-V1-M-068			27 ± 17	44	13 ± 9	26
AA-2VA2-V1-M-069			4 ± 7	44	23 ± 12	26
AA-2VA2-V1-M-070			22 ± 15	44	13 ± 9	26
AA-2VA2-V1-M-071			12 ± 11	44	15 ± 10	26
AA-2VA2-V1-M-072			15 ± 13	44	28 ± 13	26
AA-2VA2-V1-M-073			40 ± 21	44	7 ± 6	26
AA-2VA2-V1-M-074			15 ± 13	44	12 ± 9	26
AA-2VA2-V1-M-075			11 ± 11	44	16 ± 10	26

**Note: All activity results reported in dpm/100cm<sup>2</sup>**

## Building Systems Final Status Survey Results

Building AA	Survey Unit 2VA2				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
AA-2VA2-V1-M-076			16 ± 13	44	9 ± 7	26
AA-2VA2-V1-M-077			17 ± 13	44	14 ± 9	26
AA-2VA2-V1-M-078			36 ± 20	44	10 ± 8	26
AA-2VA2-V1-M-079			21 ± 15	44	13 ± 9	26
AA-2VA2-V1-M-080			37 ± 20	44	9 ± 7	26
AA-2VA2-V1-M-081			21 ± 15	44	17 ± 10	26
AA-2VA2-V1-M-082			19 ± 14	44	22 ± 11	26
AA-2VA2-V1-M-083			16 ± 13	44	16 ± 10	26
AA-2VA2-V1-M-084			17 ± 13	44	12 ± 9	26
AA-2VA2-V1-M-085			24 ± 16	44	15 ± 10	26
AA-2VA2-V1-M-086			20 ± 14	44	13 ± 9	26
AA-2VA2-V1-M-087			28 ± 17	44	17 ± 10	26
AA-2VA2-V1-M-088			26 ± 17	44	12 ± 8	26
AA-2VA2-V1-M-089			25 ± 16	44	10 ± 8	26
AA-2VA2-V1-M-090			25 ± 16	44	10 ± 8	26
AA-2VA2-V1-M-091			9 ± 10	44	16 ± 10	26
AA-2VA2-V1-M-092			31 ± 18	44	14 ± 9	26
AA-2VA2-V1-M-093			29 ± 18	44	19 ± 11	26
AA-2VA2-V1-M-094			26 ± 17	44	13 ± 9	26
AA-2VA2-V1-M-095			32 ± 18	44	16 ± 10	26
AA-2VA2-V1-M-096			15 ± 13	44	15 ± 9	26
AA-2VA2-V1-M-097			17 ± 14	44	12 ± 9	26
AA-2VA2-V1-M-098			32 ± 18	44	14 ± 9	26
AA-2VA2-V1-M-099			21 ± 15	44	15 ± 9	26
AA-2VA2-V1-M-100			18 ± 14	44	17 ± 10	26

**Note: All activity results reported in dpm/100cm<sup>2</sup>**



## Building Systems Final Status Survey Results

Building AA	Survey Unit 2VA2				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
AA-2VA2-V1-M-101			24 ± 16	44	13 ± 9	26
AA-2VA2-V1-M-102			9 ± 10	44	16 ± 10	26
AA-2VA2-V1-M-103			24 ± 16	44	14 ± 9	26
AA-2VA2-V1-M-104			15 ± 13	44	12 ± 9	26
AA-2VA2-V1-M-105			28 ± 17	44	12 ± 9	26
AA-2VA2-V1-M-106			15 ± 13	44	21 ± 11	26
AA-2VA2-V1-M-107			5 ± 7	44	16 ± 10	26
AA-2VA2-V1-M-108			19 ± 14	44	12 ± 9	26
AA-2VA2-V1-M-109			34 ± 19	44	18 ± 10	26
AA-2VA2-V1-M-110			17 ± 14	44	13 ± 9	26
AA-2VA2-V1-M-111			16 ± 13	44	16 ± 10	26
AA-2VA2-V1-M-112			31 ± 18	44	12 ± 8	26
AA-2VA2-V1-M-113			30 ± 18	44	15 ± 10	26
Summary for Survey Unit # 2VA2 (113 detail records)						
<b>Average</b>			20		14	
<b>Minimum</b>			3		2	
<b>Maximum</b>			40		28	
<b>Standard Deviation</b>			9		4	

**Note: All activity results reported in dpm/100cm<sup>2</sup>**

## Building Systems Final Status Survey Results

Building AA	Survey Unit 2VE1				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
AA-2VE1-E1-M-001			24 ± 16	44	23 ± 12	26
AA-2VE1-E1-M-002			29 ± 18	44	11 ± 8	26
AA-2VE1-E1-M-003			9 ± 10	44	16 ± 10	26
AA-2VE1-E1-M-004			13 ± 12	44	11 ± 8	26
AA-2VE1-E1-M-005			35 ± 19	44	6 ± 6	26
AA-2VE1-E1-M-006			14 ± 12	44	9 ± 7	26
AA-2VE1-E1-M-007			12 ± 11	44	22 ± 12	26
AA-2VE1-E1-M-008			23 ± 16	44	15 ± 9	26
AA-2VE1-E1-M-009			18 ± 14	44	10 ± 8	26
AA-2VE1-E1-M-010			21 ± 15	44	16 ± 10	26
AA-2VE1-E1-M-011			6 ± 8	44	19 ± 11	26
AA-2VE1-E1-M-012			20 ± 15	44	12 ± 9	26
AA-2VE1-E2-M-013			7 ± 9	44	17 ± 10	26
AA-2VE1-E1-M-014			14 ± 12	44	19 ± 11	26
AA-2VE1-E1-M-015			16 ± 13	44	9 ± 7	26
AA-2VE1-E2-M-016			14 ± 12	44	18 ± 10	26
AA-2VE1-E1-M-017			21 ± 15	44	15 ± 9	26
AA-2VE1-E1-M-018			14 ± 12	44	15 ± 9	26
AA-2VE1-E1-M-019			29 ± 18	44	18 ± 10	26
AA-2VE1-E1-M-020			13 ± 12	44	11 ± 8	26
AA-2VE1-E1-M-021			16 ± 13	44	16 ± 10	26
AA-2VE1-E1-M-022			13 ± 12	44	10 ± 8	26
AA-2VE1-E1-M-023			10 ± 10	44	14 ± 9	26
AA-2VE1-E1-M-024			19 ± 14	44	15 ± 9	26
AA-2VE1-E1-M-025			9 ± 10	44	10 ± 8	26

**Note: All activity results reported in dpm/100cm<sup>2</sup>**

## Building Systems Final Status Survey Results

Building AA	Survey Unit 2VE1				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
AA-2VE1-E2-M-026			24 ± 16	44	16 ± 10	26
AA-2VE1-E1-M-027			10 ± 10	44	13 ± 9	26
AA-2VE1-E1-M-028			18 ± 14	44	12 ± 9	26
AA-2VE1-E1-M-029			17 ± 13	44	14 ± 9	26
AA-2VE1-E1-M-030			8 ± 9	44	13 ± 9	26
AA-2VE1-E1-M-031			27 ± 17	44	12 ± 8	26
AA-2VE1-E1-M-032			29 ± 18	44	19 ± 11	26
AA-2VE1-E1-M-033			17 ± 13	44	22 ± 12	26
AA-2VE1-E1-M-034			22 ± 15	44	12 ± 9	26
AA-2VE1-E1-M-035			9 ± 10	44	10 ± 8	26
AA-2VE1-E1-M-036			7 ± 8	44	9 ± 7	26
AA-2VE1-E1-M-037			12 ± 11	44	18 ± 10	26
AA-2VE1-E1-M-038			20 ± 15	44	24 ± 12	26
AA-2VE1-E1-M-039			18 ± 14	44	18 ± 11	26
AA-2VE1-E1-M-040			21 ± 15	44	13 ± 9	26
AA-2VE1-E1-M-041			23 ± 16	44	17 ± 10	26
AA-2VE1-E1-M-042			13 ± 12	44	27 ± 13	26
AA-2VE1-E1-M-043			17 ± 13	44	15 ± 9	26
AA-2VE1-E1-M-044			22 ± 15	44	18 ± 11	26
AA-2VE1-E1-M-045			14 ± 12	44	7 ± 7	26
AA-2VE1-E1-M-046			29 ± 18	44	3 ± 4	26
AA-2VE1-E1-M-047			11 ± 11	44	10 ± 8	26
AA-2VE1-E1-M-048			11 ± 11	44	19 ± 11	26
AA-2VE1-E1-M-049			18 ± 14	44	10 ± 8	26
AA-2VE1-E1-M-050			20 ± 15	44	11 ± 8	26

**Note: All activity results reported in dpm/100cm<sup>2</sup>**

## Building Systems Final Status Survey Results

Building	Survey Unit		Class: N/A			
AA	2VE1					
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
AA-2VE1-E1-M-051			21 ± 15	44	7 ± 7	26
AA-2VE1-E1-M-052			15 ± 13	44	18 ± 10	26
AA-2VE1-E1-M-053			7 ± 8	44	18 ± 10	26
AA-2VE1-E1-M-054			18 ± 14	44	9 ± 7	26
AA-2VE1-E1-M-055			7 ± 9	44	15 ± 10	26
AA-2VE1-E1-M-056			13 ± 12	44	15 ± 9	26
AA-2VE1-E1-M-057			14 ± 12	44	16 ± 10	26
AA-2VE1-E1-M-058			11 ± 11	44	18 ± 10	26
AA-2VE1-E1-M-059			15 ± 13	44	11 ± 8	26
AA-2VE1-E1-M-060			0 ± 0	44	18 ± 10	26
AA-2VE1-E1-M-061			25 ± 16	44	12 ± 8	26
AA-2VE1-E1-M-062			14 ± 12	44	12 ± 8	26
AA-2VE1-E1-M-063			9 ± 10	44	18 ± 10	26
AA-2VE1-E2-M-064			18 ± 14	44	17 ± 10	26
AA-2VE1-E1-M-065			23 ± 16	44	17 ± 10	26
AA-2VE1-E1-M-066			12 ± 11	44	5 ± 6	26
AA-2VE1-E1-M-067			14 ± 12	44	9 ± 7	26
AA-2VE1-E1-M-068			6 ± 8	44	12 ± 8	26
AA-2VE1-E1-M-069			11 ± 11	44	20 ± 11	26
AA-2VE1-E1-M-070			9 ± 10	44	18 ± 10	26
AA-2VE1-E1-M-071			6 ± 8	44	12 ± 8	26
AA-2VE1-E1-M-072			9 ± 10	44	19 ± 11	26
AA-2VE1-E1-M-073			20 ± 15	44	21 ± 11	26
AA-2VE1-E1-M-074			10 ± 10	44	15 ± 10	26
AA-2VE1-E1-M-075			9 ± 10	44	10 ± 8	26

**Note: All activity results reported in dpm/100cm<sup>2</sup>**

## Building Systems Final Status Survey Results

Building AA	Survey Unit 2VE1				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
AA-2VE1-E1-M-076			9 ± 10	44	27 ± 13	26
AA-2VE1-E1-M-077			28 ± 17	44	8 ± 7	26
AA-2VE1-E1-M-078			18 ± 14	44	11 ± 8	26
AA-2VE1-E1-M-079			12 ± 11	44	19 ± 11	26
AA-2VE1-E1-M-080			5 ± 7	44	17 ± 10	26
AA-2VE1-E1-M-081			12 ± 11	44	16 ± 10	26
AA-2VE1-E1-M-082			25 ± 16	44	9 ± 7	26
AA-2VE1-E1-M-083			16 ± 13	44	16 ± 10	26
AA-2VE1-E1-M-084			19 ± 14	44	16 ± 10	26
AA-2VE1-E1-M-085			7 ± 9	44	11 ± 8	26
AA-2VE1-E1-M-086			7 ± 9	44	15 ± 9	26
Summary for Survey Unit # 2VE1 (86 detail records)						
<b>Average</b>			15		15	
<b>Minimum</b>			0		3	
<b>Maximum</b>			35		27	
<b>Standard Deviation</b>			7		5	

**Note: All activity results reported in dpm/100cm<sup>2</sup>**

## Building Systems Final Status Survey Results

Building AA	Survey Unit 2VE2				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
AA-2VE2-E1-M-001			6 ± 8	44	13 ± 9	26
AA-2VE2-E1-M-002			30 ± 18	44	9 ± 7	26
AA-2VE2-E1-M-003			23 ± 16	44	10 ± 8	26
AA-2VE2-E1-M-004			20 ± 14	44	17 ± 10	26
AA-2VE2-E1-M-005			23 ± 16	44	17 ± 10	26
AA-2VE2-E1-M-006			46 ± 22	44	16 ± 10	26
AA-2VE2-E2-M-007			10 ± 10	44	15 ± 10	26
AA-2VE2-E1-M-008			21 ± 15	44	12 ± 9	26
AA-2VE2-E1-M-009			14 ± 12	44	18 ± 11	26
AA-2VE2-E1-M-010			15 ± 13	44	11 ± 8	26
AA-2VE2-E1-M-011			27 ± 17	44	12 ± 8	26
AA-2VE2-E1-M-012			15 ± 13	44	15 ± 9	26
AA-2VE2-E1-M-013			13 ± 12	44	11 ± 8	26
AA-2VE2-E1-M-014			27 ± 17	44	11 ± 8	26
AA-2VE2-E1-M-015			26 ± 17	44	14 ± 9	26
AA-2VE2-E1-M-016			21 ± 15	44	17 ± 10	26
AA-2VE2-E1-M-017			19 ± 14	44	16 ± 10	26
AA-2VE2-E1-M-018			21 ± 15	44	13 ± 9	26
AA-2VE2-E1-M-019			30 ± 18	44	24 ± 12	26
AA-2VE2-E1-M-020			11 ± 11	44	10 ± 8	26
AA-2VE2-E1-M-021			22 ± 15	44	13 ± 9	26
AA-2VE2-E1-M-022			17 ± 13	44	11 ± 8	26
AA-2VE2-E1-M-023			24 ± 16	44	15 ± 10	26
AA-2VE2-E1-M-024			27 ± 17	44	11 ± 8	26
AA-2VE2-E1-M-025			15 ± 13	44	27 ± 13	26

**Note: All activity results reported in dpm/100cm<sup>2</sup>**

## Building Systems Final Status Survey Results

Building AA	Survey Unit 2VE2				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
AA-2VE2-E1-M-026			34 ± 19	44	18 ± 10	26
AA-2VE2-E1-M-027			10 ± 10	44	13 ± 9	26
AA-2VE2-E1-M-028			19 ± 14	44	28 ± 13	26
AA-2VE2-E1-M-029			29 ± 18	44	13 ± 9	26
AA-2VE2-E1-M-030			22 ± 15	44	13 ± 9	26
AA-2VE2-E1-M-031			20 ± 15	44	27 ± 13	26
AA-2VE2-E1-M-032			21 ± 15	44	12 ± 8	26
AA-2VE2-E1-M-033			18 ± 14	44	17 ± 10	26
AA-2VE2-E1-M-034			18 ± 14	44	19 ± 11	26
AA-2VE2-E1-M-035			18 ± 14	44	9 ± 7	26
AA-2VE2-E1-M-036			10 ± 10	44	15 ± 10	26
AA-2VE2-E1-M-037			42 ± 21	44	13 ± 9	26
AA-2VE2-E1-M-038			27 ± 17	44	12 ± 8	26
AA-2VE2-E1-M-039			9 ± 10	44	10 ± 8	26
AA-2VE2-E1-M-040			20 ± 15	44	17 ± 10	26
AA-2VE2-E1-M-041			14 ± 12	44	15 ± 9	26
AA-2VE2-E1-M-042			29 ± 18	44	18 ± 10	26
AA-2VE2-E1-M-043			15 ± 13	44	11 ± 8	26
AA-2VE2-E1-M-044			24 ± 16	44	23 ± 12	26
AA-2VE2-E2-M-045			16 ± 13	44	15 ± 9	26
AA-2VE2-E1-M-046			22 ± 15	44	11 ± 8	26
AA-2VE2-E1-M-047			15 ± 12	44	14 ± 9	26
AA-2VE2-E1-M-048			22 ± 15	44	5 ± 5	26
AA-2VE2-E1-M-049			30 ± 18	44	9 ± 7	26
AA-2VE2-E1-M-050			20 ± 15	44	18 ± 10	26

**Note: All activity results reported in dpm/100cm<sup>2</sup>**

## Building Systems Final Status Survey Results

Building AA	Survey Unit 2VE2				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
AA-2VE2-E1-M-051			13 ± 12	44	19 ± 11	26
AA-2VE2-E1-M-052			13 ± 12	44	13 ± 9	26
AA-2VE2-E1-M-053			11 ± 11	44	18 ± 10	26
AA-2VE2-E2-M-054			33 ± 19	44	7 ± 6	26
AA-2VE2-E2-M-055			26 ± 17	44	13 ± 9	26
AA-2VE2-E1-M-056			21 ± 15	44	15 ± 10	26
AA-2VE2-E2-M-057			19 ± 14	44	20 ± 11	26
AA-2VE2-E2-M-058			48 ± 23	44	28 ± 13	26
AA-2VE2-E2-M-059			25 ± 16	44	15 ± 10	26
AA-2VE2-E1-M-060			13 ± 12	44	13 ± 9	26
AA-2VE2-E1-M-061			19 ± 14	44	18 ± 10	26
Summary for Survey Unit # 2VE2 (61 detail records)						
<b>Average</b>			21		15	
<b>Minimum</b>			6		5	
<b>Maximum</b>			48		28	
<b>Standard Deviation</b>			8		5	

**Note:** All activity results reported in dpm/100cm<sup>2</sup>



## Building Systems Final Status Survey Results

Building AA	Survey Unit 3DR1				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
AA-3DR1-D3-M-001			13 ± 12	44	14 ± 9	26
AA-3DR1-D3-M-002			15 ± 13	44	16 ± 10	26
AA-3DR1-D3-M-003			22 ± 15	44	13 ± 9	26
AA-3DR1-D3-M-004			26 ± 17	44	16 ± 10	26
AA-3DR1-D3-M-005			18 ± 14	44	11 ± 8	26
AA-3DR1-D3-M-006			13 ± 12	44	12 ± 8	26
AA-3DR1-D3-M-007			18 ± 14	44	20 ± 11	26
AA-3DR1-D3-M-008			14 ± 12	44	11 ± 8	26
AA-3DR1-D3-M-009			27 ± 17	44	13 ± 9	26
AA-3DR1-D3-M-010			5 ± 7	44	7 ± 6	26
AA-3DR1-D1-M-011			19 ± 14	44	15 ± 9	26
AA-3DR1-D3-M-012			18 ± 14	44	9 ± 7	26
AA-3DR1-D3-M-013			27 ± 17	44	16 ± 10	26
AA-3DR1-D3-M-014			18 ± 14	44	12 ± 8	26
AA-3DR1-D3-M-015			10 ± 10	44	20 ± 11	26
AA-3DR1-D3-M-016			25 ± 16	44	16 ± 10	26
AA-3DR1-D3-M-017			17 ± 13	44	20 ± 11	26
AA-3DR1-D3-M-018			23 ± 16	44	15 ± 9	26
AA-3DR1-D3-M-019			15 ± 13	44	12 ± 8	26
AA-3DR1-D3-M-020			23 ± 16	44	22 ± 11	26
AA-3DR1-D3-M-021			16 ± 13	44	10 ± 8	26
AA-3DR1-D3-M-022			15 ± 13	44	12 ± 8	26
AA-3DR1-D1-M-023			25 ± 16	44	9 ± 7	26
AA-3DR1-D3-M-024			11 ± 11	44	13 ± 9	26
AA-3DR1-D3-M-025			5 ± 7	44	16 ± 10	26

**Note: All activity results reported in dpm/100cm<sup>2</sup>**

## Building Systems Final Status Survey Results

Building AA	Survey Unit 3DR1				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
AA-3DR1-D1-M-026			21 ± 15	44	5 ± 5	26
AA-3DR1-D3-M-027			26 ± 17	44	22 ± 11	26
AA-3DR1-D3-M-028			15 ± 13	44	15 ± 9	26
AA-3DR1-D3-M-029			13 ± 12	44	11 ± 8	26
AA-3DR1-D3-M-030			22 ± 15	44	13 ± 9	26
AA-3DR1-D3-M-031			23 ± 16	44	8 ± 7	26
AA-3DR1-D3-M-032			19 ± 14	44	19 ± 11	26
AA-3DR1-D3-M-033			8 ± 9	44	10 ± 8	26
AA-3DR1-D3-M-034			19 ± 14	44	15 ± 9	26
AA-3DR1-D3-M-035			13 ± 12	44	13 ± 9	26
AA-3DR1-D2-M-036			15 ± 13	44	13 ± 9	26
AA-3DR1-D3-M-037			4 ± 7	44	10 ± 8	26
AA-3DR1-D3-M-038			18 ± 14	44	18 ± 10	26
<hr/> Summary for Survey Unit # 3DR1 (38 detail records)						
<b>Average</b>			17		14	
<b>Minimum</b>			4		5	
<b>Maximum</b>			27		22	
<b>Standard Deviation</b>			6		4	

**Note: All activity results reported in dpm/100cm<sup>2</sup>**

## Building Systems Final Status Survey Results

Building AA	Survey Unit 3DR2				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
AA-3DR2-D3-M-001			24 ± 16	44	16 ± 10	26
AA-3DR2-D1-M-002			11 ± 11	44	17 ± 10	26
AA-3DR2-D1-M-003			21 ± 15	44	6 ± 6	26
AA-3DR2-D3-M-004			11 ± 11	44	27 ± 13	26
AA-3DR2-D3-M-005			19 ± 14	44	8 ± 7	26
AA-3DR2-D3-M-006			12 ± 11	44	11 ± 8	26
AA-3DR2-D3-M-007			21 ± 15	44	7 ± 6	26
AA-3DR2-D3-M-008			23 ± 16	44	15 ± 9	26
AA-3DR2-D3-M-009			17 ± 13	44	12 ± 8	26
AA-3DR2-D3-M-010			24 ± 16	44	7 ± 6	26
AA-3DR2-D3-M-011			22 ± 15	44	11 ± 8	26
AA-3DR2-D3-M-012			6 ± 8	44	16 ± 10	26
AA-3DR2-D3-M-013			11 ± 11	44	7 ± 6	26
AA-3DR2-D1-M-014			19 ± 14	44	10 ± 8	26
AA-3DR2-D3-M-015			7 ± 9	44	12 ± 8	26
AA-3DR2-D3-M-016			18 ± 14	44	15 ± 9	26
AA-3DR2-D3-M-017			22 ± 15	44	14 ± 9	26
AA-3DR2-D3-M-018			19 ± 14	44	16 ± 10	26
AA-3DR2-D3-M-019			10 ± 10	44	16 ± 10	26
AA-3DR2-D3-M-020			28 ± 17	44	8 ± 7	26
AA-3DR2-D1-M-021			11 ± 11	44	12 ± 8	26
AA-3DR2-D1-M-022			26 ± 17	44	14 ± 9	26
AA-3DR2-D1-M-023			28 ± 17	44	24 ± 12	26
AA-3DR2-D3-M-024			17 ± 13	44	19 ± 11	26
AA-3DR2-D3-M-025			10 ± 10	44	18 ± 10	26

Note: All activity results reported in dpm/100cm<sup>2</sup>

## Building Systems Final Status Survey Results

Building AA	Survey Unit 3DR2				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
AA-3DR2-D3-M-026			7 ± 9	44	6 ± 6	26
AA-3DR2-D3-M-027			20 ± 15	44	13 ± 9	26
AA-3DR2-D1-M-028			24 ± 16	44	14 ± 9	26
AA-3DR2-D3-M-029			13 ± 12	44	14 ± 9	26
AA-3DR2-D3-M-030			10 ± 10	44	11 ± 8	26
AA-3DR2-D3-M-031			4 ± 7	44	7 ± 6	26
AA-3DR2-D3-M-032			21 ± 15	44	14 ± 9	26
AA-3DR2-D3-M-033			18 ± 14	44	21 ± 11	26
AA-3DR2-D3-M-034			10 ± 10	44	12 ± 8	26
AA-3DR2-D3-M-035			12 ± 11	44	19 ± 11	26
AA-3DR2-D3-M-036			19 ± 14	44	16 ± 10	26
AA-3DR2-D3-M-037			30 ± 18	44	7 ± 6	26
AA-3DR2-D3-M-038			34 ± 19	44	7 ± 6	26
AA-3DR2-D3-M-039			12 ± 11	44	23 ± 12	26
AA-3DR2-D3-M-040			21 ± 15	44	15 ± 9	26
AA-3DR2-D3-M-041			31 ± 18	44	18 ± 10	26
AA-3DR2-D3-M-042			16 ± 13	44	19 ± 11	26
Summary for Survey Unit # 3DR2 (42 detail records)						
<b>Average</b>			18		14	
<b>Minimum</b>			4		6	
<b>Maximum</b>			34		27	
<b>Standard Deviation</b>			7		5	

**Note: All activity results reported in dpm/100cm<sup>2</sup>**

## Building Systems Final Status Survey Results

Building AA	Survey Unit 3VA1				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
AA-3VA1-V1-M-001			12 ± 11	44	11 ± 8	26
AA-3VA1-V1-M-002			26 ± 17	44	10 ± 8	26
AA-3VA1-V1-M-003			19 ± 14	44	14 ± 9	26
AA-3VA1-V1-M-004			17 ± 13	44	14 ± 9	26
AA-3VA1-V1-M-005			15 ± 13	44	7 ± 6	26
AA-3VA1-V1-M-006			24 ± 16	44	17 ± 10	26
AA-3VA1-V1-M-007			20 ± 15	44	15 ± 9	26
AA-3VA1-V1-M-008			10 ± 10	44	17 ± 10	26
AA-3VA1-V1-M-009			28 ± 17	44	14 ± 9	26
AA-3VA1-V1-M-010			10 ± 10	44	17 ± 10	26
AA-3VA1-V1-M-011			9 ± 10	44	14 ± 9	26
AA-3VA1-V1-M-012			21 ± 15	44	14 ± 9	26
AA-3VA1-V1-M-013			16 ± 13	44	9 ± 7	26
AA-3VA1-V1-M-014			24 ± 16	44	11 ± 8	26
AA-3VA1-V1-M-015			13 ± 12	44	18 ± 10	26
AA-3VA1-V1-M-016			19 ± 14	44	9 ± 7	26
AA-3VA1-V1-M-017			22 ± 15	44	16 ± 10	26
AA-3VA1-V1-M-018			21 ± 15	44	9 ± 7	26
AA-3VA1-V1-M-019			36 ± 20	44	13 ± 9	26
AA-3VA1-V1-M-020			19 ± 14	44	10 ± 8	26
AA-3VA1-V1-M-021			23 ± 16	44	15 ± 9	26
AA-3VA1-V1-M-022			24 ± 16	44	14 ± 9	26
AA-3VA1-V1-M-023			29 ± 18	44	17 ± 10	26
AA-3VA1-V1-M-024			6 ± 8	44	9 ± 7	26
AA-3VA1-V1-M-025			16 ± 13	44	18 ± 10	26

**Note: All activity results reported in dpm/100cm<sup>2</sup>**

## Building Systems Final Status Survey Results

Building AA	Survey Unit 3VA1				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
AA-3VA1-V1-M-026			11 ± 11	44	12 ± 8	26
AA-3VA1-V1-M-027			10 ± 10	44	19 ± 11	26
AA-3VA1-V1-M-028			12 ± 11	44	11 ± 8	26
AA-3VA1-V1-M-029			23 ± 16	44	11 ± 8	26
AA-3VA1-V1-M-030			14 ± 12	44	16 ± 10	26
AA-3VA1-V1-M-031			3 ± 6	44	14 ± 9	26
AA-3VA1-V1-M-032			14 ± 12	44	7 ± 6	26
AA-3VA1-V1-M-033			6 ± 8	44	17 ± 10	26
AA-3VA1-V1-M-034			13 ± 12	44	13 ± 9	26
AA-3VA1-V1-M-035			6 ± 8	44	10 ± 8	26
AA-3VA1-V1-M-036			10 ± 10	44	17 ± 10	26
AA-3VA1-V1-M-037			8 ± 9	44	6 ± 6	26
AA-3VA1-V1-M-038			7 ± 9	44	12 ± 8	26
AA-3VA1-V1-M-039			29 ± 18	44	13 ± 9	26
AA-3VA1-V1-M-040			22 ± 15	44	16 ± 10	26
AA-3VA1-V1-M-041			18 ± 14	44	12 ± 8	26
AA-3VA1-V1-M-042			25 ± 16	44	16 ± 10	26
AA-3VA1-V1-M-043			12 ± 11	44	4 ± 5	26
AA-3VA1-V1-M-044			12 ± 11	44	12 ± 8	26
AA-3VA1-V1-M-045			10 ± 10	44	7 ± 6	26
AA-3VA1-V1-M-046			20 ± 15	44	19 ± 11	26
AA-3VA1-V1-M-047			22 ± 15	44	12 ± 8	26
AA-3VA1-V1-M-048			30 ± 18	44	19 ± 11	26
AA-3VA1-V1-M-049			10 ± 10	44	6 ± 6	26
AA-3VA1-V1-M-050			1 ± 3	44	18 ± 10	26

**Note: All activity results reported in dpm/100cm<sup>2</sup>**

## Building Systems Final Status Survey Results

Building AA	Survey Unit 3VA1				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
AA-3VA1-V1-M-051			20 ± 15	44	13 ± 9	26
AA-3VA1-V1-M-052			17 ± 13	44	12 ± 8	26
AA-3VA1-V1-M-053			27 ± 17	44	10 ± 8	26
AA-3VA1-V1-M-054			12 ± 11	44	15 ± 9	26
AA-3VA1-V1-M-055			22 ± 15	44	14 ± 9	26
AA-3VA1-V1-M-056			22 ± 15	44	14 ± 9	26
AA-3VA1-V1-M-057			5 ± 7	44	21 ± 11	26
AA-3VA1-V1-M-058			8 ± 9	44	12 ± 8	26
AA-3VA1-V1-M-059			9 ± 10	44	18 ± 10	26
AA-3VA1-V1-M-060			22 ± 15	44	13 ± 9	26
AA-3VA1-V1-M-061			16 ± 13	44	12 ± 8	26
AA-3VA1-V1-M-062			24 ± 16	44	6 ± 6	26
AA-3VA1-V1-M-063			6 ± 8	44	15 ± 9	26
AA-3VA1-V1-M-064			26 ± 17	44	12 ± 8	26
AA-3VA1-V1-M-065			23 ± 16	44	9 ± 7	26
Summary for Survey Unit # 3VA1 (65 detail records)						
<b>Average</b>			17		13	
<b>Minimum</b>			1		4	
<b>Maximum</b>			36		21	
<b>Standard Deviation</b>			8		4	

**Note: All activity results reported in dpm/100cm<sup>2</sup>**

## Building Systems Final Status Survey Results

Building AA	Survey Unit 3VA2				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
AA-3VA2-V1-M-001			24 ± 16	44	11 ± 8	26
AA-3VA2-V1-M-002			18 ± 14	44	24 ± 12	26
AA-3VA2-V1-M-003			13 ± 12	44	6 ± 6	26
AA-3VA2-V1-M-004			7 ± 9	44	14 ± 9	26
AA-3VA2-V1-M-005			14 ± 12	44	9 ± 7	26
AA-3VA2-V1-M-006			21 ± 15	44	10 ± 8	26
AA-3VA2-V1-M-007			18 ± 14	44	12 ± 8	26
AA-3VA2-V1-M-008			18 ± 14	44	12 ± 8	26
AA-3VA2-V1-M-009			29 ± 18	44	16 ± 10	26
AA-3VA2-V1-M-010			21 ± 15	44	9 ± 7	26
AA-3VA2-V1-M-011			21 ± 15	44	10 ± 8	26
AA-3VA2-V1-M-012			14 ± 12	44	13 ± 9	26
AA-3VA2-V1-M-013			19 ± 14	44	7 ± 6	26
AA-3VA2-V1-M-014			16 ± 13	44	10 ± 8	26
AA-3VA2-V1-M-015			11 ± 11	44	21 ± 11	26
AA-3VA2-V1-M-016			9 ± 10	44	21 ± 11	26
AA-3VA2-V1-M-017			28 ± 17	44	12 ± 8	26
AA-3VA2-V1-M-018			16 ± 13	44	3 ± 4	26
AA-3VA2-V1-M-019			21 ± 15	44	8 ± 7	26
AA-3VA2-V1-M-020			7 ± 9	44	14 ± 9	26
AA-3VA2-V1-M-021			17 ± 13	44	5 ± 5	26
AA-3VA2-V1-M-022			14 ± 12	44	18 ± 10	26
AA-3VA2-V1-M-023			16 ± 13	44	10 ± 8	26
AA-3VA2-V1-M-024			19 ± 14	44	18 ± 10	26
AA-3VA2-V1-M-025			18 ± 14	44	12 ± 8	26

**Note: All activity results reported in dpm/100cm<sup>2</sup>**



## Building Systems Final Status Survey Results

Building AA	Survey Unit 3VA2				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
AA-3VA2-V1-M-026			27 ± 17	44	16 ± 10	26
AA-3VA2-V1-M-027			11 ± 11	44	13 ± 9	26
AA-3VA2-V1-M-028			21 ± 15	44	16 ± 10	26
AA-3VA2-V1-M-029			24 ± 16	44	11 ± 8	26
AA-3VA2-V1-M-030			9 ± 10	44	12 ± 8	26
AA-3VA2-V1-M-031			27 ± 17	44	17 ± 10	26
AA-3VA2-V1-M-032			19 ± 14	44	16 ± 10	26
AA-3VA2-V1-M-033			26 ± 17	44	19 ± 11	26
AA-3VA2-V1-M-034			83 ± 30	44	367 ± 47	26
AA-3VA2-V1-M-035			15 ± 13	44	13 ± 9	26
AA-3VA2-V1-M-036			25 ± 16	44	9 ± 7	26
AA-3VA2-V1-M-037			39 ± 20	44	28 ± 13	26
AA-3VA2-V1-M-038			17 ± 13	44	7 ± 6	26
AA-3VA2-V1-M-039			19 ± 14	44	12 ± 8	26
AA-3VA2-V1-M-040			13 ± 12	44	23 ± 12	26
AA-3VA2-V1-M-041			21 ± 15	44	14 ± 9	26
AA-3VA2-V1-M-042			10 ± 10	44	6 ± 6	26
AA-3VA2-V1-M-043			9 ± 10	44	12 ± 8	26
AA-3VA2-V1-M-044			60 ± 25	44	14 ± 9	26
AA-3VA2-V1-M-045			92 ± 31	44	14 ± 9	26
AA-3VA2-V1-M-046			4 ± 7	44	20 ± 11	26
AA-3VA2-V1-M-047			12 ± 11	44	9 ± 7	26
AA-3VA2-V1-M-048			9 ± 10	44	14 ± 9	26
AA-3VA2-V1-M-049			11 ± 11	44	14 ± 9	26
AA-3VA2-V1-M-050			9 ± 10	44	12 ± 8	26

**Note: All activity results reported in dpm/100cm<sup>2</sup>**

## Building Systems Final Status Survey Results

Building AA	Survey Unit 3VA2				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
AA-3VA2-V1-M-051			26 ± 17	44	14 ± 9	26
AA-3VA2-V1-M-052			26 ± 17	44	13 ± 9	26
AA-3VA2-V1-M-053			21 ± 15	44	15 ± 9	26
AA-3VA2-V1-M-054			9 ± 10	44	17 ± 10	26
AA-3VA2-V1-M-055			18 ± 14	44	11 ± 8	26
AA-3VA2-V1-M-056			26 ± 17	44	10 ± 8	26
AA-3VA2-V1-M-057			11 ± 11	44	13 ± 9	26
AA-3VA2-V1-M-058			13 ± 12	44	8 ± 7	26
AA-3VA2-V1-M-059			19 ± 14	44	12 ± 8	26
AA-3VA2-V1-M-060			16 ± 13	44	15 ± 9	26
AA-3VA2-V1-M-061			14 ± 12	44	11 ± 8	26
AA-3VA2-V1-M-062			13 ± 12	44	17 ± 10	26
AA-3VA2-V1-M-063			26 ± 17	44	8 ± 7	26
AA-3VA2-V1-M-064			26 ± 17	44	6 ± 6	26
AA-3VA2-V1-M-065			12 ± 11	44	14 ± 9	26
AA-3VA2-V1-M-066			16 ± 13	44	13 ± 9	26
AA-3VA2-V1-M-067			17 ± 13	44	5 ± 5	26
AA-3VA2-V1-M-068			16 ± 13	44	12 ± 8	26
AA-3VA2-V1-M-069			26 ± 17	44	11 ± 8	26
AA-3VA2-V1-M-070			8 ± 9	44	15 ± 9	26
AA-3VA2-V1-M-071			32 ± 18	44	5 ± 5	26
AA-3VA2-V1-M-072			9 ± 10	44	20 ± 11	26
AA-3VA2-V1-M-073			14 ± 12	44	18 ± 10	26
AA-3VA2-V1-M-074			25 ± 16	44	8 ± 7	26
AA-3VA2-V1-M-075			18 ± 14	44	18 ± 10	26

**Note: All activity results reported in dpm/100cm<sup>2</sup>**

## Building Systems Final Status Survey Results

Building AA	Survey Unit 3VA2				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
AA-3VA2-V1-M-076			32 ± 18	44	14 ± 9	26
AA-3VA2-V1-M-077			92 ± 31	44	8 ± 7	26
AA-3VA2-V1-M-078			13 ± 12	44	12 ± 8	26
AA-3VA2-V1-M-079			24 ± 16	44	17 ± 10	26
Summary for Survey Unit # 3VA2 (79 detail records)						
<b>Average</b>			21		17	
<b>Minimum</b>			4		3	
<b>Maximum</b>			92		367	
<b>Standard Deviation</b>			16		40	

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**Note: All activity results reported in dpm/100cm<sup>2</sup>**

## Building Systems Final Status Survey Results

Building AA	Survey Unit 3VE1				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
AA-3VE1-E2-M-001			12 ± 11	44	13 ± 9	26
AA-3VE1-E2-M-002			14 ± 12	44	18 ± 10	26
AA-3VE1-E1-M-003			18 ± 14	44	14 ± 9	26
AA-3VE1-E1-M-004			15 ± 13	44	23 ± 12	26
AA-3VE1-E2-M-005			15 ± 13	44	13 ± 9	26
AA-3VE1-E1-M-006			14 ± 12	44	11 ± 8	26
AA-3VE1-E2-M-007			21 ± 15	44	14 ± 9	26
AA-3VE1-E1-M-008			30 ± 18	44	16 ± 10	26
AA-3VE1-E1-M-009			5 ± 7	44	22 ± 11	26
AA-3VE1-E2-M-010			11 ± 11	44	14 ± 9	26
AA-3VE1-E2-M-011			12 ± 11	44	19 ± 11	26
AA-3VE1-E2-M-012			18 ± 14	44	5 ± 5	26
AA-3VE1-E2-M-013			13 ± 12	44	13 ± 9	26
AA-3VE1-E2-M-014			11 ± 11	44	13 ± 9	26
AA-3VE1-E2-M-015			9 ± 10	44	12 ± 8	26
Summary for Survey Unit # 3VE1 (15 detail records)						
<b>Average</b>			15		15	
<b>Minimum</b>			5		5	
<b>Maximum</b>			30		23	
<b>Standard Deviation</b>			6		4	

**Note: All activity results reported in dpm/100cm<sup>2</sup>**

## Building Systems Final Status Survey Results

Building AA	Survey Unit 3VE2				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
AA-3VE2-E1-M-001			13 ± 12	44	23 ± 12	26
AA-3VE2-E1-M-002			12 ± 11	44	17 ± 10	26
AA-3VE2-E2-M-003			23 ± 16	44	11 ± 8	26
AA-3VE2-E1-M-004			22 ± 15	44	15 ± 9	26
AA-3VE2-E1-M-005			18 ± 14	44	9 ± 7	26
AA-3VE2-E2-M-006			11 ± 11	44	16 ± 10	26
AA-3VE2-E1-M-007			18 ± 14	44	52 ± 18	26
AA-3VE2-E1-M-008			21 ± 15	44	28 ± 13	26
AA-3VE2-E2-M-009			22 ± 15	44	23 ± 12	26
AA-3VE2-E2-M-010			17 ± 13	44	18 ± 10	26
AA-3VE2-E1-M-011			21 ± 15	44	20 ± 11	26
AA-3VE2-E1-M-012			15 ± 13	44	20 ± 11	26
AA-3VE2-E2-M-013			18 ± 14	44	8 ± 7	26
AA-3VE2-E1-M-014			0 ± 0	44	66 ± 20	26
AA-3VE2-E1-M-015			53 ± 24	44	64 ± 20	26
AA-3VE2-E2-M-016			32 ± 18	44	16 ± 10	26
AA-3VE2-E2-M-017			14 ± 12	44	11 ± 8	26
Summary for Survey Unit # 3VE2 (17 detail records)						
<b>Average</b>			19		25	
<b>Minimum</b>			0		8	
<b>Maximum</b>			53		66	
<b>Standard Deviation</b>			11		18	

**Note: All activity results reported in dpm/100cm<sup>2</sup>**

## Building Systems Final Status Survey Results

Building AA	Survey Unit 4DR1				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
AA-4DR1-D3-M-001			14 ± 12	44	11 ± 8	26
AA-4DR1-D2-M-002			23 ± 16	44	14 ± 9	26
AA-4DR1-D3-M-003			28 ± 17	44	12 ± 8	26
AA-4DR1-D3-M-004			21 ± 15	44	10 ± 8	26
AA-4DR1-D3-M-005			15 ± 13	44	12 ± 8	26
AA-4DR1-D1-M-006			18 ± 14	44	10 ± 8	26
AA-4DR1-D3-M-007			25 ± 16	44	10 ± 8	26
AA-4DR1-D3-M-008			21 ± 15	44	10 ± 8	26
AA-4DR1-D3-M-009			21 ± 15	44	13 ± 9	26
AA-4DR1-D3-M-010			24 ± 16	44	6 ± 6	26
AA-4DR1-D3-M-011			16 ± 13	44	20 ± 11	26
AA-4DR1-D1-M-012			23 ± 16	44	8 ± 7	26
AA-4DR1-D3-M-013			18 ± 14	44	16 ± 10	26
AA-4DR1-D3-M-014			17 ± 13	44	9 ± 7	26
AA-4DR1-D3-M-015			18 ± 14	44	13 ± 9	26
AA-4DR1-D3-M-016			24 ± 16	44	12 ± 8	26
AA-4DR1-D3-M-017			16 ± 13	44	9 ± 7	26
AA-4DR1-D3-M-018			21 ± 15	44	10 ± 8	26
AA-4DR1-D3-M-019			20 ± 15	44	18 ± 10	26
AA-4DR1-D3-M-020			14 ± 12	44	17 ± 10	26
AA-4DR1-D3-M-021			11 ± 11	44	13 ± 9	26
AA-4DR1-D3-M-022			7 ± 9	44	14 ± 9	26
AA-4DR1-D3-M-023			11 ± 11	44	13 ± 9	26
AA-4DR1-D3-M-024			18 ± 14	44	11 ± 8	26
AA-4DR1-D3-M-025			18 ± 14	44	20 ± 11	26

**Note: All activity results reported in dpm/100cm<sup>2</sup>**

## Building Systems Final Status Survey Results

Building AA	Survey Unit 4DR1				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
AA-4DR1-D3-M-026			14 ± 12	44	9 ± 7	26
Summary for Survey Unit # 4DR1 (26 detail records)						
Average			18		12	
Minimum			7		6	
Maximum			28		20	
Standard Deviation			5		4	

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**Note: All activity results reported in dpm/100cm<sup>2</sup>**

## Building Systems Final Status Survey Results

Building AA	Survey Unit 4DR2				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
AA-4DR2-D3-M-001			16 ± 13	44	8 ± 7	26
AA-4DR2-D3-M-002			13 ± 12	44	14 ± 9	26
AA-4DR2-D3-M-003			19 ± 14	44	15 ± 9	26
AA-4DR2-D3-M-004			34 ± 19	44	7 ± 6	26
AA-4DR2-D1-M-005			13 ± 12	44	13 ± 9	26
AA-4DR2-D3-M-006			25 ± 16	44	9 ± 7	26
AA-4DR2-D3-M-007			25 ± 16	44	8 ± 7	26
AA-4DR2-D3-M-008			10 ± 10	44	9 ± 7	26
AA-4DR2-D3-M-009			10 ± 10	44	11 ± 8	26
AA-4DR2-D3-M-010			20 ± 15	44	10 ± 8	26
AA-4DR2-D3-M-011			31 ± 18	44	17 ± 10	26
AA-4DR2-D3-M-012			15 ± 13	44	15 ± 9	26
AA-4DR2-D3-M-013			18 ± 14	44	13 ± 9	26
AA-4DR2-D3-M-014			24 ± 16	44	15 ± 9	26
AA-4DR2-D3-M-015			27 ± 17	44	16 ± 10	26
AA-4DR2-D3-M-016			14 ± 12	44	7 ± 6	26
AA-4DR2-D3-M-017			5 ± 7	44	21 ± 11	26
AA-4DR2-D1-M-018			9 ± 10	44	12 ± 8	26
AA-4DR2-D3-M-019			16 ± 13	44	9 ± 7	26
AA-4DR2-D3-M-020			28 ± 17	44	14 ± 9	26
AA-4DR2-D3-M-021			5 ± 7	44	9 ± 7	26
AA-4DR2-D2-M-022			20 ± 15	44	12 ± 8	26

**Note: All activity results reported in dpm/100cm<sup>2</sup>**





## Building Systems Final Status Survey Results

Building AA	Survey Unit 4VA1				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
AA-4VA1-V1-M-001			23 ± 16	44	15 ± 9	26
AA-4VA1-V1-M-002			30 ± 18	44	4 ± 5	26
AA-4VA1-V1-M-003			19 ± 14	44	10 ± 8	26
AA-4VA1-V1-M-004			18 ± 14	44	9 ± 7	26
AA-4VA1-V1-M-005			11 ± 11	44	17 ± 10	26
AA-4VA1-V1-M-006			30 ± 18	44	16 ± 10	26
AA-4VA1-V1-M-007			23 ± 16	44	13 ± 9	26
AA-4VA1-V1-M-008			24 ± 16	44	4 ± 5	26
AA-4VA1-V1-M-009			13 ± 12	44	12 ± 8	26
AA-4VA1-V1-M-010			19 ± 14	44	14 ± 9	26
AA-4VA1-V1-M-011			10 ± 10	44	8 ± 7	26
AA-4VA1-V1-M-012			20 ± 15	44	18 ± 10	26
AA-4VA1-V1-M-013			16 ± 13	44	3 ± 4	26
AA-4VA1-V1-M-014			15 ± 13	44	13 ± 9	26
AA-4VA1-V1-M-015			14 ± 12	44	8 ± 7	26
AA-4VA1-V1-M-016			16 ± 13	44	12 ± 8	26
AA-4VA1-V1-M-017			16 ± 13	44	15 ± 9	26
AA-4VA1-V1-M-018			35 ± 19	44	10 ± 8	26
AA-4VA1-V1-M-019			13 ± 12	44	20 ± 11	26
AA-4VA1-V1-M-020			19 ± 14	44	14 ± 9	26
AA-4VA1-V1-M-021			16 ± 13	44	14 ± 9	26
AA-4VA1-V1-M-022			28 ± 17	44	9 ± 7	26
AA-4VA1-V1-M-023			19 ± 14	44	8 ± 7	26
AA-4VA1-V1-M-024			11 ± 11	44	14 ± 9	26
AA-4VA1-V1-M-025			14 ± 12	44	12 ± 8	26

**Note: All activity results reported in dpm/100cm<sup>2</sup>**

## Building Systems Final Status Survey Results

Building AA	Survey Unit 4VA1				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
AA-4VA1-V1-M-026			18 ± 14	44	18 ± 10	26
AA-4VA1-V1-M-027			19 ± 14	44	20 ± 11	26
AA-4VA1-V1-M-028			17 ± 13	44	14 ± 9	26
AA-4VA1-V1-M-029			22 ± 15	44	15 ± 9	26
AA-4VA1-V1-M-030			15 ± 13	44	14 ± 9	26
AA-4VA1-V1-M-031			12 ± 11	44	9 ± 7	26
AA-4VA1-V1-M-032			12 ± 11	44	14 ± 9	26
AA-4VA1-V1-M-033			13 ± 12	44	17 ± 10	26
AA-4VA1-V1-M-034			20 ± 15	44	9 ± 7	26
AA-4VA1-V1-M-035			23 ± 16	44	14 ± 9	26
AA-4VA1-V1-M-036			33 ± 19	44	16 ± 10	26
AA-4VA1-V1-M-037			26 ± 17	44	16 ± 10	26
AA-4VA1-V1-M-038			19 ± 14	44	9 ± 7	26
AA-4VA1-V1-M-039			27 ± 17	44	20 ± 11	26
AA-4VA1-V1-M-040			20 ± 15	44	15 ± 9	26
AA-4VA1-V1-M-041			15 ± 13	44	12 ± 8	26
AA-4VA1-V1-M-042			25 ± 16	44	14 ± 9	26
AA-4VA1-V1-M-043			14 ± 12	44	11 ± 8	26
AA-4VA1-V1-M-044			8 ± 9	44	16 ± 10	26
AA-4VA1-V1-M-045			19 ± 14	44	11 ± 8	26
AA-4VA1-V1-M-046			30 ± 18	44	13 ± 9	26
AA-4VA1-V1-M-047			20 ± 15	44	16 ± 10	26
AA-4VA1-V1-M-048			13 ± 12	44	14 ± 9	26
AA-4VA1-V1-M-049			16 ± 13	44	18 ± 10	26
AA-4VA1-V1-M-050			14 ± 12	44	15 ± 9	26

**Note: All activity results reported in dpm/100cm<sup>2</sup>**

## Building Systems Final Status Survey Results

Building AA	Survey Unit 4VA1				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
AA-4VA1-VI-M-051			11 ± 11	44	13 ± 9	26
Summary for Survey Unit # 4VA1 (51 detail records)						
Average			19		13	
Minimum			8		3	
Maximum			35		20	
Standard Deviation			6		4	

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Note: All activity results reported in dpm/100cm<sup>2</sup>

## Building Systems Final Status Survey Results

Building AA	Survey Unit 4VA2				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
AA-4VA2-V1-M-001			10 ± 10	44	15 ± 9	26
AA-4VA2-V1-M-002			32 ± 18	44	11 ± 8	26
AA-4VA2-V1-M-003			20 ± 15	44	16 ± 10	26
AA-4VA2-V1-M-004			22 ± 15	44	14 ± 9	26
AA-4VA2-V1-M-005			20 ± 15	44	15 ± 9	26
AA-4VA2-V1-M-006			5 ± 7	44	24 ± 12	26
AA-4VA2-V1-M-007			20 ± 15	44	8 ± 7	26
AA-4VA2-V1-M-008			14 ± 12	44	7 ± 6	26
AA-4VA2-V1-M-009			15 ± 13	44	13 ± 9	26
AA-4VA2-V1-M-010			8 ± 9	44	10 ± 8	26
AA-4VA2-V1-M-011			19 ± 14	44	15 ± 9	26
AA-4VA2-V1-M-012			16 ± 13	44	9 ± 7	26
AA-4VA2-V1-M-013			18 ± 14	44	17 ± 10	26
AA-4VA2-V1-M-014			11 ± 11	44	15 ± 9	26
AA-4VA2-V1-M-015			1 ± 3	44	20 ± 11	26
AA-4VA2-V1-M-016			21 ± 15	44	13 ± 9	26
AA-4VA2-V1-M-017			25 ± 16	44	16 ± 10	26
AA-4VA2-V1-M-018			9 ± 10	44	16 ± 10	26
AA-4VA2-V1-M-019			13 ± 12	44	6 ± 6	26
AA-4VA2-V1-M-020			25 ± 16	44	8 ± 7	26
AA-4VA2-V1-M-021			6 ± 8	44	10 ± 8	26
AA-4VA2-V1-M-022			19 ± 14	44	12 ± 8	26
AA-4VA2-V1-M-023			39 ± 20	44	12 ± 8	26
AA-4VA2-V1-M-024			19 ± 14	44	14 ± 9	26
AA-4VA2-V1-M-025			11 ± 11	44	14 ± 9	26

**Note: All activity results reported in dpm/100cm<sup>2</sup>**

## Building Systems Final Status Survey Results

Building AA	Survey Unit 4VA2				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
AA-4VA2-V1-M-026			31 ± 18	44	9 ± 7	26
AA-4VA2-V1-M-027			28 ± 17	44	11 ± 8	26
AA-4VA2-V1-M-028			3 ± 6	44	16 ± 10	26
AA-4VA2-V1-M-029			17 ± 13	44	11 ± 8	26
AA-4VA2-V1-M-030			24 ± 16	44	11 ± 8	26
Summary for Survey Unit # 4VA2 (30 detail records)						
<b>Average</b>			17		13	
<b>Minimum</b>			1		6	
<b>Maximum</b>			39		24	
<b>Standard Deviation</b>			9		4	

**Note: All activity results reported in dpm/100cm<sup>2</sup>**

## Building Systems Final Status Survey Results

Building AA	Survey Unit 4VA3				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
AA-4VA3-V1-M-001			7 ± 9	44	8 ± 7	26
AA-4VA3-V1-M-002			28 ± 17	44	17 ± 10	26
AA-4VA3-V1-M-003			22 ± 15	44	15 ± 9	26
AA-4VA3-V1-M-004			16 ± 13	44	16 ± 10	26
AA-4VA3-V1-M-005			20 ± 14	44	14 ± 9	26
AA-4VA3-V1-M-006			24 ± 16	44	12 ± 8	26
AA-4VA3-V1-M-007			25 ± 16	44	8 ± 7	26
AA-4VA3-V1-M-008			15 ± 13	44	17 ± 10	26
AA-4VA3-V1-M-009			16 ± 13	44	8 ± 7	26
AA-4VA3-V1-M-010			22 ± 15	44	11 ± 8	26
AA-4VA3-V1-M-011			16 ± 13	44	16 ± 10	26
AA-4VA3-V1-M-012			27 ± 17	44	9 ± 7	26
<hr/>						
Summary for Survey Unit # 4VA3 (12 detail records)						
Average			20		13	
Minimum			7		8	
Maximum			28		17	
Standard Deviation			6		4	

**Note: All activity results reported in dpm/100cm<sup>2</sup>**

## Building Systems Final Status Survey Results

Building AA	Survey Unit 4VE1				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
AA-4VE1-E2-M-001			15 ± 13	44	12 ± 8	26
AA-4VE1-E2-M-002			20 ± 15	44	16 ± 10	26
AA-4VE1-E2-M-003			25 ± 16	44	14 ± 9	26
AA-4VE1-E2-M-004			15 ± 13	44	12 ± 8	26
AA-4VE1-E2-M-005			20 ± 15	44	20 ± 11	26
AA-4VE1-E2-M-006			12 ± 11	44	8 ± 7	26
AA-4VE1-E2-M-007			14 ± 12	44	25 ± 12	26
AA-4VE1-E1-M-008			13 ± 12	44	14 ± 9	26
AA-4VE1-E1-M-009			14 ± 12	44	9 ± 7	26
AA-4VE1-E2-M-010			18 ± 14	44	11 ± 8	26
AA-4VE1-E1-M-011			24 ± 16	44	10 ± 8	26
AA-4VE1-E1-M-012			14 ± 12	44	18 ± 10	26
AA-4VE1-E2-M-013			8 ± 9	44	36 ± 15	26
AA-4VE1-E2-M-014			16 ± 13	44	9 ± 7	26
AA-4VE1-E2-M-015			25 ± 16	44	8 ± 7	26
AA-4VE1-E2-M-016			13 ± 12	44	18 ± 10	26
AA-4VE1-E2-M-017			12 ± 11	44	9 ± 7	26
AA-4VE1-E2-M-018			21 ± 15	44	8 ± 7	26
Summary for Survey Unit # 4VE1 (18 detail records)						
<b>Average</b>			17		14	
<b>Minimum</b>			8		8	
<b>Maximum</b>			25		36	
<b>Standard Deviation</b>			5		7	

**Note: All activity results reported in dpm/100cm<sup>2</sup>**



## Building Systems Final Status Survey Results

Building AA	Survey Unit 4VE2				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
AA-4VE2-E2-M-001			2 ± 5	44	16 ± 10	26
AA-4VE2-E2-M-002			7 ± 9	44	19 ± 11	26
AA-4VE2-E1-M-003			12 ± 11	44	9 ± 7	26
AA-4VE2-E1-M-004			7 ± 9	44	18 ± 10	26
AA-4VE2-E2-M-005			14 ± 12	44	24 ± 12	26
AA-4VE2-E2-M-006			7 ± 9	44	14 ± 9	26
AA-4VE2-E2-M-007			15 ± 13	44	17 ± 10	26
AA-4VE2-E2-M-008			13 ± 12	44	13 ± 9	26
AA-4VE2-E1-M-009			13 ± 12	44	14 ± 9	26
AA-4VE2-E1-M-010			16 ± 13	44	7 ± 6	26
AA-4VE2-E2-M-011			9 ± 10	44	13 ± 9	26
AA-4VE2-E2-M-012			14 ± 12	44	9 ± 7	26
AA-4VE2-E2-M-013			21 ± 15	44	13 ± 9	26
AA-4VE2-E2-M-014			20 ± 15	44	18 ± 10	26
Summary for Survey Unit # 4VE2 (14 detail records)						
<b>Average</b>			12		15	
<b>Minimum</b>			2		7	
<b>Maximum</b>			21		24	
<b>Standard Deviation</b>			5		5	

**Note: All activity results reported in dpm/100cm<sup>2</sup>**

## Building Systems Final Status Survey Results

Building AA	Survey Unit 4VE3				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
AA-4VE3-E1-M-001			23 ± 16	44	14 ± 9	26
AA-4VE3-E1-M-002			6 ± 8	44	21 ± 11	26
AA-4VE3-E2-M-003			11 ± 11	44	18 ± 10	26
AA-4VE3-E1-M-004			36 ± 20	44	9 ± 7	26
AA-4VE3-E1-M-005			4 ± 7	44	21 ± 11	26
Summary for Survey Unit # 4VE3 (5 detail records)						
Average			16		17	
Minimum			4		9	
Maximum			36		21	
Standard Deviation			13		5	

**Note: All activity results reported in dpm/100cm<sup>2</sup>**

## Building Systems Final Status Survey Results

Building AA	Survey Unit 5DR1				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
AA-5DR1-D3-M-001			15 ± 13	44	17 ± 10	26
AA-5DR1-D3-M-002			12 ± 11	44	11 ± 8	26
AA-5DR1-D3-M-003			18 ± 14	44	18 ± 10	26
AA-5DR1-D3-M-004			20 ± 15	44	20 ± 11	26
AA-5DR1-D3-M-005			14 ± 12	44	19 ± 11	26
AA-5DR1-D3-M-006			9 ± 10	44	13 ± 9	26
AA-5DR1-D3-M-007			30 ± 18	44	17 ± 10	26
AA-5DR1-D1-M-008			7 ± 9	44	14 ± 9	26
AA-5DR1-D3-M-009			10 ± 10	44	11 ± 8	26
AA-5DR1-D3-M-010			24 ± 16	44	12 ± 8	26
AA-5DR1-D3-M-011			16 ± 13	44	18 ± 10	26
AA-5DR1-D3-M-012			9 ± 10	44	21 ± 11	26
AA-5DR1-D1-M-013			18 ± 14	44	14 ± 9	26
AA-5DR1-D3-M-014			18 ± 14	44	10 ± 8	26
AA-5DR1-D3-M-015			19 ± 14	44	14 ± 9	26
AA-5DR1-D3-M-016			24 ± 16	44	9 ± 7	26
AA-5DR1-D3-M-017			27 ± 17	44	8 ± 7	26
AA-5DR1-D3-M-018			30 ± 18	44	8 ± 7	26
AA-5DR1-D2-M-019			23 ± 16	44	8 ± 7	26
<hr/> Summary for Survey Unit # 5DR1 (19 detail records)						
<b>Average</b>			18		14	
<b>Minimum</b>			7		8	
<b>Maximum</b>			30		21	
<b>Standard Deviation</b>			7		4	

**Note:** All activity results reported in dpm/100cm<sup>2</sup>

## Building Systems Final Status Survey Results

Building AA	Survey Unit 5DR2				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
AA-5DR2-D2-M-001			33 ± 19	44	11 ± 8	26
AA-5DR2-D3-M-002			19 ± 14	44	10 ± 8	26
AA-5DR2-D1-M-003			19 ± 14	44	17 ± 10	26
AA-5DR2-D3-M-004			22 ± 15	44	19 ± 11	26
AA-5DR2-D3-M-005			16 ± 13	44	13 ± 9	26
AA-5DR2-D3-M-006			11 ± 11	44	23 ± 12	26
AA-5DR2-D3-M-007			16 ± 13	44	12 ± 8	26
AA-5DR2-D3-M-008			18 ± 14	44	5 ± 5	26
AA-5DR2-D3-M-009			18 ± 14	44	15 ± 9	26
AA-5DR2-D3-M-010			17 ± 13	44	7 ± 6	26
AA-5DR2-D3-M-011			10 ± 10	44	12 ± 8	26
AA-5DR2-D3-M-012			17 ± 13	44	7 ± 6	26
AA-5DR2-D3-M-013			13 ± 12	44	7 ± 6	26
AA-5DR2-D3-M-014			19 ± 14	44	10 ± 8	26
AA-5DR2-D3-M-015			9 ± 10	44	18 ± 10	26
AA-5DR2-D3-M-016			12 ± 11	44	8 ± 7	26
AA-5DR2-D3-M-017			13 ± 12	44	12 ± 8	26
AA-5DR2-D1-M-018			24 ± 16	44	14 ± 9	26
AA-5DR2-D3-M-019			11 ± 11	44	13 ± 9	26
AA-5DR2-D3-M-020			16 ± 13	44	17 ± 10	26
AA-5DR2-D3-M-021			18 ± 14	44	28 ± 13	26
AA-5DR2-D1-M-022			22 ± 15	44	12 ± 8	26
AA-5DR2-D3-M-023			17 ± 13	44	13 ± 9	26
AA-5DR2-D3-M-024			14 ± 12	44	3 ± 4	26
AA-5DR2-D1-M-025			19 ± 14	44	4 ± 5	26

**Note:** All activity results reported in dpm/100cm<sup>2</sup>

## Building Systems Final Status Survey Results

Building AA	Survey Unit 5DR2				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
AA-5DR2-D3-M-026			13 ± 12	44	16 ± 10	26
AA-5DR2-D1-M-027			14 ± 12	44	19 ± 11	26
AA-5DR2-D3-M-028			26 ± 17	44	14 ± 9	26
AA-5DR2-D3-M-029			11 ± 11	44	15 ± 9	26
AA-5DR2-D3-M-030			19 ± 14	44	8 ± 7	26
AA-5DR2-D3-M-031			20 ± 15	44	17 ± 10	26
AA-5DR2-D3-M-032			27 ± 17	44	9 ± 7	26
AA-5DR2-D3-M-033			15 ± 13	44	18 ± 10	26
AA-5DR2-D3-M-034			18 ± 14	44	10 ± 8	26
AA-5DR2-D3-M-035			21 ± 15	44	15 ± 9	26
AA-5DR2-D3-M-036			21 ± 15	44	12 ± 8	26
AA-5DR2-D3-M-037			14 ± 12	44	19 ± 11	26
AA-5DR2-D3-M-038			10 ± 10	44	16 ± 10	26
AA-5DR2-D3-M-039			9 ± 10	44	13 ± 9	26
AA-5DR2-D3-M-040			23 ± 16	44	18 ± 10	26
AA-5DR2-D3-M-041			13 ± 12	44	15 ± 9	26
AA-5DR2-D3-M-042			24 ± 16	44	11 ± 8	26
AA-5DR2-D3-M-043			28 ± 17	44	14 ± 9	26
Summary for Survey Unit # 5DR2 (43 detail records)						
<b>Average</b>			17		13	
<b>Minimum</b>			9		3	
<b>Maximum</b>			33		28	
<b>Standard Deviation</b>			5		5	

**Note: All activity results reported in dpm/100cm<sup>2</sup>**

## Building Systems Final Status Survey Results

Building AA	Survey Unit 5VA1				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
AA-5VA1-V1-M-001			11 ± 11	44	15 ± 9	26
AA-5VA1-V1-M-002			26 ± 17	44	22 ± 11	26
AA-5VA1-V1-M-003			31 ± 18	44	10 ± 8	26
AA-5VA1-V1-M-004			21 ± 15	44	12 ± 8	26
AA-5VA1-V1-M-005			19 ± 14	44	14 ± 9	26
AA-5VA1-V1-M-006			23 ± 16	44	18 ± 10	26
AA-5VA1-V1-M-007			29 ± 18	44	15 ± 9	26
AA-5VA1-V1-M-008			40 ± 21	44	18 ± 10	26
AA-5VA1-V1-M-009			15 ± 13	44	24 ± 12	26
AA-5VA1-V1-M-010			14 ± 12	44	22 ± 11	26
AA-5VA1-V1-M-011			36 ± 20	44	8 ± 7	26
AA-5VA1-V1-M-012			31 ± 18	44	16 ± 10	26
AA-5VA1-V1-M-013			19 ± 14	44	9 ± 7	26
AA-5VA1-V1-M-014			26 ± 17	44	10 ± 8	26
AA-5VA1-V1-M-015			12 ± 11	44	8 ± 7	26
AA-5VA1-V1-M-016			23 ± 16	44	14 ± 9	26
AA-5VA1-V1-M-017			19 ± 14	44	13 ± 9	26
AA-5VA1-V1-M-018			12 ± 11	44	11 ± 8	26
AA-5VA1-V1-M-019			15 ± 13	44	12 ± 8	26
AA-5VA1-V1-M-020			31 ± 18	44	6 ± 6	26
AA-5VA1-V1-M-021			13 ± 12	44	14 ± 9	26
AA-5VA1-V1-M-022			28 ± 17	44	19 ± 11	26
AA-5VA1-V1-M-023			15 ± 13	44	13 ± 9	26
AA-5VA1-V1-M-024			16 ± 13	44	11 ± 8	26
AA-5VA1-V1-M-025			17 ± 13	44	23 ± 12	26

**Note: All activity results reported in dpm/100cm<sup>2</sup>**

## Building Systems Final Status Survey Results

Building AA	Survey Unit 5VA1				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
AA-5VA1-V1-M-026			18 ± 14	44	9 ± 7	26
AA-5VA1-V1-M-027			10 ± 10	44	15 ± 9	26
AA-5VA1-V1-M-028			12 ± 11	44	13 ± 9	26
AA-5VA1-V1-M-029			42 ± 21	44	14 ± 9	26
AA-5VA1-V1-M-030			33 ± 19	44	15 ± 9	26
AA-5VA1-V1-M-031			24 ± 16	44	13 ± 9	26
AA-5VA1-V1-M-032			22 ± 15	44	11 ± 8	26
AA-5VA1-V1-M-033			10 ± 10	44	8 ± 7	26
AA-5VA1-V1-M-034			20 ± 15	44	16 ± 10	26
AA-5VA1-V1-M-035			7 ± 9	44	8 ± 7	26
AA-5VA1-V1-M-036			29 ± 18	44	11 ± 8	26
AA-5VA1-V1-M-037			21 ± 15	44	19 ± 11	26
AA-5VA1-V1-M-038			26 ± 17	44	9 ± 7	26
AA-5VA1-V1-M-039			12 ± 11	44	8 ± 7	26
AA-5VA1-V1-M-040			11 ± 11	44	8 ± 7	26
AA-5VA1-V1-M-041			18 ± 14	44	18 ± 10	26
AA-5VA1-V1-M-042			16 ± 13	44	10 ± 8	26
AA-5VA1-V1-M-043			12 ± 11	44	13 ± 9	26
AA-5VA1-V1-M-044			35 ± 19	44	7 ± 6	26
AA-5VA1-V1-M-045			26 ± 17	44	15 ± 9	26
AA-5VA1-V1-M-046			22 ± 15	44	24 ± 12	26
AA-5VA1-V1-M-047			14 ± 12	44	19 ± 11	26
AA-5VA1-V1-M-048			8 ± 9	44	16 ± 10	26
AA-5VA1-V1-M-049			42 ± 21	44	8 ± 7	26
AA-5VA1-V1-M-050			19 ± 14	44	14 ± 9	26

**Note: All activity results reported in dpm/100cm<sup>2</sup>**

## Building Systems Final Status Survey Results

Building AA	Survey Unit 5VA1				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
AA-5VA1-V1-M-051			28 ± 17	44	14 ± 9	26
AA-5VA1-V1-M-052			8 ± 9	44	19 ± 11	26
AA-5VA1-V1-M-053			20 ± 15	44	14 ± 9	26
AA-5VA1-V1-M-054			24 ± 16	44	12 ± 8	26
AA-5VA1-V1-M-055			22 ± 15	44	15 ± 9	26
AA-5VA1-V1-M-056			16 ± 13	44	12 ± 8	26
AA-5VA1-V1-M-057			16 ± 13	44	16 ± 10	26
AA-5VA1-V1-M-058			27 ± 17	44	10 ± 8	26
AA-5VA1-V1-M-059			12 ± 11	44	11 ± 8	26
AA-5VA1-V1-M-060			12 ± 11	44	11 ± 8	26
AA-5VA1-V1-M-061			19 ± 14	44	9 ± 7	26
Summary for Survey Unit # 5VA1 (61 detail records)						
Average			21		13	
Minimum			7		6	
Maximum			42		24	
Standard Deviation			9		4	

**Note: All activity results reported in dpm/100cm<sup>2</sup>**



## Building Systems Final Status Survey Results

Building AA	Survey Unit 5VA2				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
AA-5VA2-V1-M-001			28 ± 17	44	11 ± 8	26
AA-5VA2-V1-M-002			25 ± 16	44	23 ± 12	26
AA-5VA2-V1-M-003			19 ± 14	44	18 ± 10	26
AA-5VA2-V1-M-004			10 ± 10	44	16 ± 10	26
AA-5VA2-V1-M-005			11 ± 11	44	7 ± 6	26
AA-5VA2-V1-M-006			25 ± 16	44	9 ± 7	26
AA-5VA2-V1-M-007			23 ± 16	44	10 ± 8	26
AA-5VA2-V1-M-008			25 ± 16	44	11 ± 8	26
AA-5VA2-V1-M-009			31 ± 18	44	16 ± 10	26
AA-5VA2-V1-M-010			8 ± 9	44	12 ± 8	26
AA-5VA2-V1-M-011			<b>182 ± 44</b>	44	11 ± 8	26
AA-5VA2-V1-M-012			21 ± 15	44	14 ± 9	26
AA-5VA2-V1-M-013			15 ± 13	44	12 ± 8	26
AA-5VA2-V1-M-014			21 ± 15	44	15 ± 9	26
AA-5VA2-V1-M-015			23 ± 16	44	19 ± 11	26
AA-5VA2-V1-M-016			21 ± 15	44	5 ± 5	26
AA-5VA2-V1-M-017			<b>64 ± 26</b>	44	14 ± 9	26
AA-5VA2-V1-M-018			11 ± 11	44	16 ± 10	26
AA-5VA2-V1-M-019			47 ± 22	44	17 ± 10	26
AA-5VA2-V1-M-020			15 ± 13	44	12 ± 8	26
AA-5VA2-V1-M-021			14 ± 12	44	15 ± 9	26
AA-5VA2-V1-M-022			25 ± 16	44	22 ± 11	26
AA-5VA2-V1-M-023			25 ± 16	44	16 ± 10	26
AA-5VA2-V1-M-024			20 ± 15	44	16 ± 10	26
AA-5VA2-V1-M-025			11 ± 11	44	20 ± 11	26

**Note: All activity results reported in dpm/100cm<sup>2</sup>**

## Building Systems Final Status Survey Results

Building AA	Survey Unit 5VA2				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
AA-5VA2-V1-M-026			21 ± 15	44	16 ± 10	26
AA-5VA2-V1-M-027			24 ± 16	44	11 ± 8	26
AA-5VA2-V1-M-028			47 ± 22	44	5 ± 5	26
AA-5VA2-V1-M-029			24 ± 16	44	19 ± 11	26
AA-5VA2-V1-M-030			5 ± 7	44	12 ± 8	26
AA-5VA2-V1-M-031			21 ± 15	44	14 ± 9	26
AA-5VA2-V1-M-032			15 ± 13	44	7 ± 6	26
AA-5VA2-V1-M-033			20 ± 15	44	13 ± 9	26
AA-5VA2-V1-M-034			19 ± 14	44	9 ± 7	26
AA-5VA2-V1-M-035			19 ± 14	44	14 ± 9	26
AA-5VA2-V1-M-036			17 ± 13	44	14 ± 9	26
AA-5VA2-V1-M-037			16 ± 13	44	13 ± 9	26
AA-5VA2-V1-M-038			20 ± 15	44	7 ± 6	26
AA-5VA2-V1-M-039			22 ± 15	44	20 ± 11	26
AA-5VA2-V1-M-040			5 ± 7	44	16 ± 10	26
AA-5VA2-V1-M-041			19 ± 14	44	19 ± 11	26
AA-5VA2-V1-M-042			20 ± 15	44	13 ± 9	26
AA-5VA2-V1-M-043			13 ± 12	44	13 ± 9	26
AA-5VA2-V1-M-044			20 ± 15	44	14 ± 9	26
AA-5VA2-V1-M-045			23 ± 16	44	7 ± 6	26
AA-5VA2-V1-M-046			13 ± 12	44	19 ± 11	26
AA-5VA2-V1-M-047			4 ± 7	44	23 ± 12	26
AA-5VA2-V1-M-048			26 ± 17	44	6 ± 6	26
AA-5VA2-V1-M-049			10 ± 10	44	11 ± 8	26
AA-5VA2-V1-M-050			18 ± 14	44	16 ± 10	26

**Note: All activity results reported in dpm/100cm<sup>2</sup>**

## Building Systems Final Status Survey Results

Building AA	Survey Unit 5VA2				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
AA-5VA2-V1-M-051			6 ± 8	44	15 ± 9	26
AA-5VA2-V1-M-052			27 ± 17	44	11 ± 8	26
AA-5VA2-V1-M-053			16 ± 13	44	14 ± 9	26
AA-5VA2-V1-M-054			9 ± 10	44	12 ± 8	26
AA-5VA2-V1-M-055			9 ± 10	44	7 ± 6	26
AA-5VA2-V1-M-056			25 ± 16	44	7 ± 6	26
AA-5VA2-V1-M-057			13 ± 12	44	14 ± 9	26
AA-5VA2-V1-M-058			4 ± 7	44	14 ± 9	26
AA-5VA2-V1-M-059			4 ± 7	44	16 ± 10	26
AA-5VA2-V1-M-060			23 ± 16	44	10 ± 8	26
AA-5VA2-V1-M-061			2 ± 5	44	10 ± 8	26
AA-5VA2-V1-M-062			16 ± 13	44	14 ± 9	26
AA-5VA2-V1-M-063			9 ± 10	44	14 ± 9	26
AA-5VA2-V1-M-064			12 ± 11	44	20 ± 11	26
AA-5VA2-V1-M-065			13 ± 12	44	12 ± 8	26
AA-5VA2-V1-M-066			20 ± 15	44	14 ± 9	26
AA-5VA2-V1-M-067			18 ± 14	44	14 ± 9	26
AA-5VA2-V1-M-068			28 ± 17	44	4 ± 5	26
AA-5VA2-V1-M-069			29 ± 18	44	11 ± 8	26
AA-5VA2-V1-M-070			23 ± 16	44	9 ± 7	26
AA-5VA2-V1-M-071			13 ± 12	44	13 ± 9	26
AA-5VA2-V1-M-072			1 ± 3	44	11 ± 8	26
AA-5VA2-V1-M-073			165 ± 42	44	12 ± 8	26
AA-5VA2-V1-M-074			19 ± 14	44	8 ± 7	26
AA-5VA2-V1-M-075			13 ± 12	44	12 ± 8	26

**Note: All activity results reported in dpm/100cm<sup>2</sup>**

## Building Systems Final Status Survey Results

Building AA	Survey Unit 5VA2				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
AA-5VA2-V1-M-076			10 ± 10	44	9 ± 7	26
AA-5VA2-V1-M-077			17 ± 13	44	13 ± 9	26
AA-5VA2-V1-M-078			19 ± 14	44	13 ± 9	26
AA-5VA2-V1-M-079			27 ± 17	44	10 ± 8	26
AA-5VA2-V1-M-080			10 ± 10	44	12 ± 8	26
AA-5VA2-V1-M-081			26 ± 17	44	14 ± 9	26
AA-5VA2-V1-M-082			19 ± 14	44	7 ± 6	26
Summary for Survey Unit # 5VA2 (82 detail records)						
<b>Average</b>			22		13	
<b>Minimum</b>			1		4	
<b>Maximum</b>			182		23	
<b>Standard Deviation</b>			26		4	

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**Note: All activity results reported in dpm/100cm<sup>2</sup>**

## Building Systems Final Status Survey Results

Building AA	Survey Unit 5VE1				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
AA-5VE1-E2-M-001			24 ± 16	44	9 ± 7	26
AA-5VE1-E1-M-002			18 ± 14	44	10 ± 8	26
AA-5VE1-E1-M-003			8 ± 9	44	25 ± 12	26
AA-5VE1-E1-M-004			22 ± 15	44	13 ± 9	26
AA-5VE1-E1-M-005			18 ± 14	44	14 ± 9	26
AA-5VE1-E2-M-006			34 ± 19	44	31 ± 14	26
AA-5VE1-E1-M-007			27 ± 17	44	8 ± 7	26
AA-5VE1-E1-M-008			26 ± 17	44	22 ± 11	26
AA-5VE1-E1-M-009			11 ± 11	44	13 ± 9	26
AA-5VE1-E1-M-010			13 ± 12	44	8 ± 7	26
AA-5VE1-E1-M-011			9 ± 10	44	12 ± 8	26
AA-5VE1-E1-M-012			22 ± 15	44	11 ± 8	26
AA-5VE1-E1-M-013			14 ± 12	44	9 ± 7	26
AA-5VE1-E1-M-014			22 ± 15	44	11 ± 8	26
AA-5VE1-E1-M-015			17 ± 13	44	18 ± 10	26
AA-5VE1-E1-M-016			23 ± 16	44	15 ± 9	26
AA-5VE1-E1-M-017			28 ± 17	44	14 ± 9	26
AA-5VE1-E2-M-018			11 ± 11	44	19 ± 11	26
AA-5VE1-E2-M-019			23 ± 16	44	19 ± 11	26
AA-5VE1-E1-M-020			24 ± 16	44	11 ± 8	26
AA-5VE1-E1-M-021			25 ± 16	44	17 ± 10	26
AA-5VE1-E1-M-022			12 ± 11	44	17 ± 10	26
AA-5VE1-E2-M-023			7 ± 9	44	13 ± 9	26
AA-5VE1-E2-M-024			29 ± 18	44	11 ± 8	26

**Note: All activity results reported in dpm/100cm<sup>2</sup>**



## Building Systems Final Status Survey Results

Building AA	Survey Unit 5VE2				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
AA-5VE2-E2-M-001			25 ± 16	44	9 ± 7	26
AA-5VE2-E2-M-002			12 ± 11	44	15 ± 9	26
AA-5VE2-E2-M-003			16 ± 13	44	11 ± 8	26
AA-5VE2-E1-M-004			20 ± 15	44	51 ± 17	26
AA-5VE2-E2-M-005			17 ± 13	44	19 ± 11	26
AA-5VE2-E2-M-006			14 ± 12	44	14 ± 9	26
AA-5VE2-E2-M-007			13 ± 12	44	20 ± 11	26
AA-5VE2-E1-M-008			16 ± 13	44	9 ± 7	26
AA-5VE2-E1-M-009			4 ± 7	44	36 ± 15	26
AA-5VE2-E2-M-010			14 ± 12	44	15 ± 9	26
AA-5VE2-E1-M-011			23 ± 16	44	20 ± 11	26
AA-5VE2-E1-M-012			20 ± 15	44	20 ± 11	26
AA-5VE2-E2-M-013			26 ± 17	44	9 ± 7	26
AA-5VE2-E1-M-014			20 ± 15	44	13 ± 9	26
AA-5VE2-E2-M-015			22 ± 15	44	14 ± 9	26
AA-5VE2-E2-M-016			17 ± 13	44	21 ± 11	26
<hr/>						
Summary for Survey Unit # 5VE2 (16 detail records)						
<b>Average</b>			17		19	
<b>Minimum</b>			4		9	
<b>Maximum</b>			26		51	
<b>Standard Deviation</b>			6		11	

**Note: All activity results reported in dpm/100cm<sup>2</sup>**







## Building Systems Final Status Survey Results

Building AA	Survey Unit PVE1			Class: N/A			
Location Code	<u>Total Beta Activity Measurements</u>			<u>Removable Activity Measurements</u>			
	Activity	MDC	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
	Activity	MDC	MDC	Activity	MDC	Activity	MDC
AA-PVE1-E3-M-001	464	1972	815	13 ± 12	44	22 ± 12	26
AA-PVE1-E3-M-002	0	1559	815	19 ± 14	44	13 ± 9	26
AA-PVE1-E3-M-003	515	2012	815	23 ± 16	44	18 ± 10	26
AA-PVE1-E1-M-004				23 ± 16	44	10 ± 8	26
AA-PVE1-E1-M-005				20 ± 14	44	11 ± 8	26
AA-PVE1-E1-M-006				16 ± 13	44	10 ± 8	26
AA-PVE1-E1-M-007				32 ± 19	44	25 ± 12	26
AA-PVE1-E1-M-008				17 ± 14	44	12 ± 9	26
AA-PVE1-E1-M-009				5 ± 7	44	16 ± 10	26
AA-PVE1-E1-M-010				19 ± 14	44	21 ± 11	26
AA-PVE1-E1-M-011				26 ± 17	44	17 ± 10	26
AA-PVE1-E1-M-012				27 ± 17	44	12 ± 8	26
AA-PVE1-E1-M-013				20 ± 14	44	15 ± 9	26
AA-PVE1-E1-M-014				17 ± 14	44	22 ± 11	26
AA-PVE1-E1-M-015				19 ± 14	44	13 ± 9	26
AA-PVE1-E1-M-016				21 ± 15	44	15 ± 9	26
AA-PVE1-E1-M-017				17 ± 13	44	20 ± 11	26
AA-PVE1-E1-M-018				37 ± 20	44	16 ± 10	26
AA-PVE1-E1-M-019				13 ± 12	44	16 ± 10	26
AA-PVE1-E1-M-020				15 ± 13	44	20 ± 11	26
AA-PVE1-E1-M-021				5 ± 8	44	14 ± 9	26
AA-PVE1-E1-M-022				13 ± 12	44	11 ± 8	26
AA-PVE1-E1-M-023				11 ± 11	44	15 ± 10	26
AA-PVE1-E1-M-024				16 ± 13	44	22 ± 12	26
AA-PVE1-E3-M-025				26 ± 17	44	21 ± 11	26

Note: All activity results reported in dpm/100cm<sup>2</sup>

## Building Systems Final Status Survey Results

Building AA	Survey Unit PVE1				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
AA-PVE1-E3-M-026			22 ± 15	44	12 ± 9	26
AA-PVE1-E1-M-027			19 ± 14	44	5 ± 5	26
AA-PVE1-E3-M-028			4 ± 6	44	20 ± 11	26
AA-PVE1-E3-M-029			12 ± 11	44	18 ± 10	26
AA-PVE1-E3-M-030			18 ± 14	44	11 ± 8	26
AA-PVE1-E3-M-031			26 ± 17	44	7 ± 7	26
AA-PVE1-E3-M-032			19 ± 14	44	13 ± 9	26
AA-PVE1-E3-M-033			15 ± 13	44	15 ± 9	26
AA-PVE1-E3-M-034			14 ± 12	44	11 ± 8	26
AA-PVE1-E3-M-035			20 ± 14	44	19 ± 11	26
<b>Summary for Survey Unit # PVE1 (35 detail records)</b>						
<b>Average</b>	326		18		15	
<b>Minimum</b>	0		4		5	
<b>Maximum</b>	515		37		25	
<b>Standard Deviation</b>	284		7		5	

**Note: All activity results reported in dpm/100cm<sup>2</sup>**

## Building Systems Final Status Survey Results

Building AA	Survey Unit PVE2				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
AA-PVE2-E1-M-001			33 ± 19	44	13 ± 9	26
AA-PVE2-E1-M-002			23 ± 16	44	10 ± 8	26
AA-PVE2-E1-M-003			21 ± 15	44	5 ± 5	26
AA-PVE2-E1-M-004			33 ± 19	44	15 ± 10	26
AA-PVE2-E1-M-005			7 ± 9	44	15 ± 10	26
AA-PVE2-E1-M-006			35 ± 19	44	8 ± 7	26
AA-PVE2-E1-M-007			22 ± 15	44	12 ± 9	26
AA-PVE2-E1-M-008			23 ± 16	44	10 ± 8	26
AA-PVE2-E1-M-009			20 ± 14	44	5 ± 5	26
AA-PVE2-E1-M-010			18 ± 14	44	20 ± 11	26
AA-PVE2-E1-M-011			14 ± 12	44	17 ± 10	26
AA-PVE2-E1-M-012			14 ± 12	44	16 ± 10	26
AA-PVE2-E1-M-013			27 ± 17	44	9 ± 8	26
AA-PVE2-E1-M-014			19 ± 14	44	13 ± 9	26
AA-PVE2-E1-M-015			18 ± 14	44	21 ± 11	26
AA-PVE2-E1-M-016			19 ± 14	44	15 ± 9	26
AA-PVE2-E1-M-017			14 ± 12	44	16 ± 10	26
AA-PVE2-E1-M-018			20 ± 14	44	12 ± 9	26
AA-PVE2-E1-M-019			15 ± 13	44	13 ± 9	26
AA-PVE2-E1-M-020			10 ± 10	44	24 ± 12	26
AA-PVE2-E1-M-021			11 ± 11	44	18 ± 11	26
AA-PVE2-E1-M-022			15 ± 13	44	15 ± 9	26
AA-PVE2-E1-M-023			15 ± 13	44	17 ± 10	26
AA-PVE2-E1-M-024			17 ± 13	44	15 ± 9	26
AA-PVE2-E1-M-025			13 ± 12	44	11 ± 8	26

**Note: All activity results reported in dpm/100cm<sup>2</sup>**

## Building Systems Final Status Survey Results

Building AA	Survey Unit PVE2				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
AA-PVE2-E3-M-026			29 ± 18	44	13 ± 9	26
AA-PVE2-E3-M-027			25 ± 16	44	8 ± 7	26
AA-PVE2-E3-M-028			32 ± 19	44	7 ± 6	26
AA-PVE2-E3-M-029			21 ± 15	44	6 ± 6	26
AA-PVE2-E3-M-030			29 ± 18	44	19 ± 11	26
AA-PVE2-E3-M-031			13 ± 12	44	13 ± 9	26
AA-PVE2-E3-M-032			28 ± 17	44	18 ± 11	26
AA-PVE2-E3-M-033			18 ± 14	44	10 ± 8	26
AA-PVE2-E3-M-034			10 ± 10	44	6 ± 6	26
AA-PVE2-E3-M-035			20 ± 15	44	14 ± 9	26
AA-PVE2-E3-M-036			23 ± 16	44	15 ± 9	26
AA-PVE2-E3-M-037			12 ± 11	44	20 ± 11	26
AA-PVE2-E3-M-038			7 ± 9	44	20 ± 11	26
Summary for Survey Unit # PVE2 (38 detail records)						
<b>Average</b>			20		13	
<b>Minimum</b>			7		5	
<b>Maximum</b>			35		24	
<b>Standard Deviation</b>			7		5	

**Note: All activity results reported in dpm/100cm<sup>2</sup>**









## Building Systems Final Status Survey Results

Building BB	Survey Unit 1VE2				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
BB-1VE2-E2-M-001			14 ± 12	44	12 ± 8	26
BB-1VE2-E2-M-002			12 ± 11	44	11 ± 8	26
BB-1VE2-E2-M-003			14 ± 12	44	14 ± 9	26
BB-1VE2-E2-M-004			28 ± 17	44	17 ± 10	26
BB-1VE2-E2-M-005			21 ± 15	44	13 ± 9	26
BB-1VE2-E2-M-006			8 ± 9	44	20 ± 11	26
BB-1VE2-E2-M-007			29 ± 17	44	11 ± 8	26
BB-1VE2-E2-M-008			16 ± 13	44	24 ± 12	26
BB-1VE2-E2-M-009			10 ± 10	44	13 ± 9	26
Summary for Survey Unit # 1VE2 (9 detail records)						
<b>Average</b>			17		15	
<b>Minimum</b>			8		11	
<b>Maximum</b>			29		24	
<b>Standard Deviation</b>			7		5	

**Note: All activity results reported in dpm/100cm<sup>2</sup>**

## Building Systems Final Status Survey Results

Building BB	Survey Unit 2DR1				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
BB-2DR1-D3-M-001			25 ± 16	44	15 ± 10	26
BB-2DR1-D1-M-002			14 ± 12	44	17 ± 10	26
BB-2DR1-D1-M-003			21 ± 15	44	7 ± 7	26
BB-2DR1-D3-M-004			29 ± 18	44	19 ± 11	26
BB-2DR1-D3-M-005			7 ± 9	44	18 ± 10	26
BB-2DR1-D1-M-006			9 ± 10	44	20 ± 11	26
BB-2DR1-D1-M-007			19 ± 14	44	9 ± 7	26
BB-2DR1-D1-M-008			23 ± 16	44	18 ± 10	26
BB-2DR1-D1-M-009			13 ± 12	44	15 ± 10	26
BB-2DR1-D1-M-010			19 ± 14	44	14 ± 9	26
BB-2DR1-D1-M-011			21 ± 15	44	13 ± 9	26
BB-2DR1-D1-M-012			7 ± 9	44	17 ± 10	26
BB-2DR1-D1-M-013			8 ± 9	44	14 ± 9	26
BB-2DR1-D1-M-014			22 ± 15	44	10 ± 8	26
BB-2DR1-D3-M-015			17 ± 13	44	17 ± 10	26
BB-2DR1-D3-M-016			13 ± 12	44	13 ± 9	26
BB-2DR1-D1-M-017			19 ± 14	44	19 ± 11	26
BB-2DR1-D1-M-018			17 ± 13	44	16 ± 10	26
BB-2DR1-D3-M-019			17 ± 13	44	26 ± 12	26
BB-2DR1-D1-M-020			4 ± 7	44	19 ± 11	26
BB-2DR1-D1-M-021			15 ± 12	44	5 ± 6	26
BB-2DR1-D3-M-022			21 ± 15	44	14 ± 9	26
BB-2DR1-D3-M-023			6 ± 8	44	13 ± 9	26
BB-2DR1-D1-M-024			12 ± 11	44	28 ± 13	26
BB-2DR1-D1-M-025			24 ± 16	44	29 ± 13	26

**Note: All activity results reported in dpm/100cm<sup>2</sup>**

## Building Systems Final Status Survey Results

Building BB	Survey Unit 2DR1				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
BB-2DR1-D1-M-026			17 ± 13	44	19 ± 11	26
BB-2DR1-D1-M-027			15 ± 13	44	21 ± 11	26
BB-2DR1-D1-M-028			23 ± 16	44	9 ± 8	26
BB-2DR1-D1-M-029			15 ± 13	44	15 ± 10	26
BB-2DR1-D1-M-030			19 ± 14	44	17 ± 10	26
BB-2DR1-D1-M-031			10 ± 11	44	17 ± 10	26
BB-2DR1-D3-M-032			21 ± 15	44	10 ± 8	26
BB-2DR1-D3-M-033			12 ± 11	44	18 ± 11	26
BB-2DR1-D1-M-034			15 ± 13	44	18 ± 10	26
BB-2DR1-D1-M-035			18 ± 14	44	17 ± 10	26
BB-2DR1-D3-M-036			29 ± 18	44	18 ± 10	26
BB-2DR1-D1-M-037			10 ± 10	44	14 ± 9	26
BB-2DR1-D1-M-038			16 ± 13	44	7 ± 6	26
BB-2DR1-D3-M-039			29 ± 18	44	16 ± 10	26
BB-2DR1-D3-M-040			31 ± 18	44	14 ± 9	26
BB-2DR1-D1-M-041			20 ± 15	44	10 ± 8	26
BB-2DR1-D1-M-042			11 ± 11	44	16 ± 10	26
BB-2DR1-D1-M-043			4 ± 7	44	9 ± 8	26
BB-2DR1-D1-M-044			16 ± 13	44	9 ± 7	26
BB-2DR1-D1-M-045			22 ± 15	44	19 ± 11	26
BB-2DR1-D1-M-046			15 ± 13	44	10 ± 8	26
BB-2DR1-D1-M-047			21 ± 15	44	15 ± 10	26
BB-2DR1-D1-M-048			18 ± 14	44	15 ± 9	26
BB-2DR1-D3-M-049			28 ± 17	44	20 ± 11	26
BB-2DR1-D3-M-050			20 ± 15	44	8 ± 7	26

**Note: All activity results reported in dpm/100cm<sup>2</sup>**

## Building Systems Final Status Survey Results

Building BB	Survey Unit 2DR1				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
BB-2DR1-D1-M-051			20 ± 15	44	14 ± 9	26
BB-2DR1-D1-M-052			23 ± 16	44	7 ± 7	26
BB-2DR1-D3-M-053			12 ± 11	44	15 ± 9	26
BB-2DR1-D1-M-054			17 ± 13	44	17 ± 10	26
BB-2DR1-D1-M-055			24 ± 16	44	4 ± 5	26
BB-2DR1-D3-M-056			25 ± 16	44	6 ± 6	26
BB-2DR1-D3-M-057			22 ± 15	44	7 ± 7	26
BB-2DR1-D1-M-058			28 ± 17	44	8 ± 7	26
BB-2DR1-D1-M-059			16 ± 13	44	17 ± 10	26
BB-2DR1-D1-M-060			15 ± 13	44	18 ± 11	26
BB-2DR1-D1-M-061			16 ± 13	44	15 ± 9	26
BB-2DR1-D1-M-062			9 ± 10	44	17 ± 10	26
BB-2DR1-D1-M-063			48 ± 23	44	12 ± 8	26
BB-2DR1-D1-M-064			11 ± 11	44	20 ± 11	26
BB-2DR1-D1-M-065			15 ± 12	44	17 ± 10	26
BB-2DR1-D3-M-066			23 ± 16	44	16 ± 10	26
BB-2DR1-D3-M-067			9 ± 10	44	12 ± 8	26
BB-2DR1-D1-M-068			17 ± 14	44	17 ± 10	26
BB-2DR1-D1-M-069			20 ± 15	44	11 ± 8	26
BB-2DR1-D3-M-070			10 ± 10	44	18 ± 10	26
BB-2DR1-D1-M-071			20 ± 15	44	8 ± 7	26
BB-2DR1-D1-M-072			15 ± 13	44	18 ± 11	26
BB-2DR1-D3-M-073			22 ± 15	44	12 ± 9	26
BB-2DR1-D3-M-074			16 ± 13	44	11 ± 8	26
BB-2DR1-D1-M-075			17 ± 13	44	17 ± 10	26

**Note:** All activity results reported in dpm/100cm<sup>2</sup>

## Building Systems Final Status Survey Results

Building BB	Survey Unit 2DR1				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
BB-2DR1-D1-M-076			28 ± 17	44	8 ± 7	26
BB-2DR1-D1-M-077			33 ± 19	44	13 ± 9	26
BB-2DR1-D1-M-078			27 ± 17	44	19 ± 11	26
BB-2DR1-D1-M-079			13 ± 12	44	14 ± 9	26
BB-2DR1-D1-M-080			16 ± 13	44	17 ± 10	26
BB-2DR1-D3-M-081			13 ± 12	44	20 ± 11	26
BB-2DR1-D3-M-082			27 ± 17	44	18 ± 10	26
BB-2DR1-D1-M-083			21 ± 15	44	15 ± 9	26
BB-2DR1-D1-M-084			20 ± 15	44	14 ± 9	26
BB-2DR1-D1-M-085			21 ± 15	44	23 ± 12	26
BB-2DR1-D1-M-086			31 ± 18	44	9 ± 7	26
BB-2DR1-D3-M-087			26 ± 17	44	17 ± 10	26
<hr/>						
Summary for Survey Unit # 2DR1 (87 detail records)						
<b>Average</b>			18		15	
<b>Minimum</b>			4		4	
<b>Maximum</b>			48		29	
<b>Standard Deviation</b>			7		5	

**Note:** All activity results reported in dpm/100cm<sup>2</sup>

## Building Systems Final Status Survey Results

Building BB	Survey Unit 2DR2				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
BB-2DR2-D1-M-001			18 ± 14	44	12 ± 8	26
BB-2DR2-D1-M-002			8 ± 9	44	17 ± 10	26
BB-2DR2-D1-M-003			9 ± 10	44	13 ± 9	26
BB-2DR2-D1-M-004			15 ± 13	44	13 ± 9	26
BB-2DR2-D3-M-005			20 ± 15	44	16 ± 10	26
BB-2DR2-D3-M-006			24 ± 16	44	12 ± 8	26
BB-2DR2-D1-M-007			18 ± 14	44	11 ± 8	26
BB-2DR2-D1-M-008			33 ± 19	44	16 ± 10	26
BB-2DR2-D3-M-009			16 ± 13	44	12 ± 8	26
BB-2DR2-D1-M-010			30 ± 18	44	14 ± 9	26
BB-2DR2-D1-M-011			30 ± 18	44	14 ± 9	26
BB-2DR2-D3-M-012			24 ± 16	44	8 ± 7	26
BB-2DR2-D3-M-013			18 ± 14	44	13 ± 9	26
BB-2DR2-D1-M-014			19 ± 14	44	9 ± 7	26
BB-2DR2-D1-M-015			22 ± 15	44	11 ± 8	26
BB-2DR2-D1-M-016			18 ± 14	44	4 ± 5	26
BB-2DR2-D1-M-017			23 ± 16	44	16 ± 10	26
BB-2DR2-D2-M-018			19 ± 14	44	5 ± 5	26
BB-2DR2-D1-M-019			27 ± 17	44	17 ± 10	26
BB-2DR2-D1-M-020			30 ± 18	44	12 ± 8	26
BB-2DR2-D1-M-021			12 ± 11	44	13 ± 9	26
BB-2DR2-D1-M-022			14 ± 12	44	12 ± 8	26
BB-2DR2-D3-M-023			5 ± 7	44	24 ± 12	26
BB-2DR2-D3-M-024			25 ± 16	44	14 ± 9	26
BB-2DR2-D1-M-025			30 ± 18	44	14 ± 9	26

**Note: All activity results reported in dpm/100cm<sup>2</sup>**

## Building Systems Final Status Survey Results

Building BB	Survey Unit 2DR2				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
BB-2DR2-D1-M-026			32 ± 18	44	8 ± 7	26
BB-2DR2-D3-M-027			23 ± 16	44	15 ± 9	26
BB-2DR2-D1-M-028			16 ± 13	44	14 ± 9	26
BB-2DR2-D1-M-029			3 ± 6	44	12 ± 8	26
BB-2DR2-D3-M-030			18 ± 14	44	13 ± 9	26
BB-2DR2-D3-M-031			13 ± 12	44	13 ± 9	26
BB-2DR2-D1-M-032			23 ± 16	44	22 ± 11	26
BB-2DR2-D1-M-033			29 ± 18	44	11 ± 8	26
BB-2DR2-D1-M-034			4 ± 7	44	10 ± 8	26
BB-2DR2-D1-M-035			21 ± 15	44	11 ± 8	26
BB-2DR2-D1-M-036			15 ± 13	44	12 ± 8	26
BB-2DR2-D1-M-037			24 ± 16	44	13 ± 9	26
BB-2DR2-D1-M-038			38 ± 20	44	5 ± 5	26
BB-2DR2-D1-M-039			16 ± 13	44	12 ± 8	26
BB-2DR2-D3-M-040			19 ± 14	44	18 ± 10	26
BB-2DR2-D3-M-041			21 ± 15	44	7 ± 6	26
BB-2DR2-D1-M-042			14 ± 12	44	7 ± 6	26
BB-2DR2-D1-M-043			25 ± 16	44	8 ± 7	26
BB-2DR2-D3-M-044			23 ± 16	44	14 ± 9	26
BB-2DR2-D1-M-045			17 ± 13	44	9 ± 7	26
BB-2DR2-D1-M-046			22 ± 15	44	10 ± 8	26
BB-2DR2-D3-M-047			14 ± 12	44	12 ± 8	26
BB-2DR2-D3-M-048			14 ± 12	44	12 ± 8	26
BB-2DR2-D1-M-049			22 ± 15	44	15 ± 9	26
BB-2DR2-D1-M-050			22 ± 15	44	14 ± 9	26

Note: All activity results reported in dpm/100cm<sup>2</sup>

## Building Systems Final Status Survey Results

Building BB	Survey Unit 2DR2				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
BB-2DR2-D1-M-051			26 ± 17	44	13 ± 9	26
BB-2DR2-D1-M-052			10 ± 10	44	16 ± 10	26
BB-2DR2-D1-M-053			11 ± 11	44	20 ± 11	26
BB-2DR2-D1-M-054			24 ± 16	44	11 ± 8	26
BB-2DR2-D1-M-055			18 ± 14	44	18 ± 10	26
BB-2DR2-D1-M-056			6 ± 8	44	19 ± 11	26
BB-2DR2-D3-M-057			12 ± 11	44	17 ± 10	26
BB-2DR2-D3-M-058			21 ± 15	44	9 ± 7	26
BB-2DR2-D1-M-059			10 ± 10	44	13 ± 9	26
BB-2DR2-D1-M-060			27 ± 17	44	10 ± 8	26
BB-2DR2-D3-M-061			22 ± 15	44	10 ± 8	26
BB-2DR2-D1-M-062			17 ± 13	44	16 ± 10	26
BB-2DR2-D1-M-063			31 ± 18	44	10 ± 8	26
BB-2DR2-D3-M-064			23 ± 16	44	8 ± 7	26
BB-2DR2-D3-M-065			18 ± 14	44	10 ± 8	26
BB-2DR2-D1-M-066			21 ± 15	44	10 ± 8	26
BB-2DR2-D1-M-067			10 ± 10	44	23 ± 12	26
BB-2DR2-D1-M-068			18 ± 14	44	12 ± 8	26
BB-2DR2-D1-M-069			20 ± 15	44	10 ± 8	26
BB-2DR2-D1-M-070			21 ± 15	44	20 ± 11	26
BB-2DR2-D1-M-071			24 ± 16	44	14 ± 9	26
BB-2DR2-D3-M-072			13 ± 12	44	19 ± 11	26
BB-2DR2-D3-M-073			21 ± 15	44	9 ± 7	26
BB-2DR2-D1-M-074			16 ± 13	44	21 ± 11	26
BB-2DR2-D1-M-075			21 ± 15	44	10 ± 8	26

**Note: All activity results reported in dpm/100cm<sup>2</sup>**



## Building Systems Final Status Survey Results

Building BB	Survey Unit 2DR2				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
BB-2DR2-D3-M-076			13 ± 12	44	14 ± 9	26
BB-2DR2-D1-M-077			18 ± 14	44	19 ± 11	26
BB-2DR2-D1-M-078			24 ± 16	44	16 ± 10	26
BB-2DR2-D3-M-079			10 ± 10	44	24 ± 12	26
BB-2DR2-D1-M-080			25 ± 16	44	10 ± 8	26
BB-2DR2-D1-M-081			14 ± 12	44	11 ± 8	26
BB-2DR2-D1-M-082			16 ± 13	44	11 ± 8	26
BB-2DR2-D1-M-083			6 ± 8	44	21 ± 11	26
BB-2DR2-D1-M-084			14 ± 12	44	11 ± 8	26
BB-2DR2-D1-M-085			23 ± 16	44	16 ± 10	26
BB-2DR2-D3-M-086			27 ± 17	44	16 ± 10	26
BB-2DR2-D3-M-087			14 ± 12	44	20 ± 11	26
BB-2DR2-D1-M-088			16 ± 13	44	12 ± 8	26
BB-2DR2-D1-M-089			9 ± 10	44	13 ± 9	26
BB-2DR2-D3-M-090			4 ± 7	44	11 ± 8	26
BB-2DR2-D1-M-091			15 ± 13	44	8 ± 7	26
BB-2DR2-D1-M-092			15 ± 13	44	15 ± 9	26
BB-2DR2-D3-M-093			23 ± 16	44	11 ± 8	26
BB-2DR2-D3-M-094			6 ± 8	44	17 ± 10	26
BB-2DR2-D1-M-095			7 ± 9	44	6 ± 6	26
BB-2DR2-D1-M-096			15 ± 13	44	14 ± 9	26
BB-2DR2-D1-M-097			9 ± 10	44	13 ± 9	26
BB-2DR2-D1-M-098			18 ± 14	44	13 ± 9	26

**Note: All activity results reported in dpm/100cm<sup>2</sup>**

## Building Systems Final Status Survey Results

Building	BB	Survey Unit 2DR2				Class: N/A
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u> Activity	MDC	<u>Carbon-14</u> Activity	MDC
Summary for Survey Unit # 2DR2 (98 detail records)						
Average			18		13	
Minimum			3		4	
Maximum			38		24	
Standard Deviation			7		4	

Note: All activity results reported in dpm/100cm<sup>2</sup>

## Building Systems Final Status Survey Results

Building BB	Survey Unit 2VA1				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
BB-2VA1-V1-M-001			20 ± 15	44	16 ± 10	26
BB-2VA1-V1-M-002			16 ± 13	44	9 ± 7	26
BB-2VA1-V1-M-003			18 ± 14	44	18 ± 11	26
BB-2VA1-V1-M-004			19 ± 14	44	17 ± 10	26
BB-2VA1-V1-M-005			158 ± 41	44	10 ± 8	26
BB-2VA1-V1-M-006			36 ± 19	44	22 ± 11	26
BB-2VA1-V1-M-007			20 ± 15	44	7 ± 7	26
BB-2VA1-V1-M-008			11 ± 11	44	18 ± 10	26
BB-2VA1-V1-M-009			34 ± 19	44	13 ± 9	26
BB-2VA1-V1-M-010			27 ± 17	44	11 ± 8	26
BB-2VA1-V1-M-011			18 ± 14	44	15 ± 10	26
BB-2VA1-V1-M-012			12 ± 11	44	16 ± 10	26
BB-2VA1-V1-M-013			11 ± 11	44	19 ± 11	26
BB-2VA1-V1-M-014			17 ± 14	44	19 ± 11	26
BB-2VA1-V1-M-015			35 ± 19	44	13 ± 9	26
BB-2VA1-V1-M-016			28 ± 17	44	26 ± 13	26
BB-2VA1-V1-M-017			18 ± 14	44	11 ± 8	26
BB-2VA1-V1-M-018			44 ± 22	44	15 ± 9	26
BB-2VA1-V1-M-019			58 ± 25	44	27 ± 13	26
BB-2VA1-V1-M-020			26 ± 17	44	22 ± 11	26
BB-2VA1-V1-M-021			35 ± 19	44	12 ± 9	26
BB-2VA1-V1-M-022			27 ± 17	44	11 ± 8	26
BB-2VA1-V1-M-023			26 ± 17	44	9 ± 7	26
BB-2VA1-V1-M-024			25 ± 16	44	16 ± 10	26
BB-2VA1-V1-M-025			0 ± 0	44	18 ± 10	26

**Note: All activity results reported in dpm/100cm<sup>2</sup>**

## Building Systems Final Status Survey Results

Building BB	Survey Unit 2VA1				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
BB-2VA1-V1-M-026			48 ± 23	44	30 ± 14	26
BB-2VA1-V1-M-027			8 ± 9	44	16 ± 10	26
BB-2VA1-V1-M-028			19 ± 14	44	17 ± 10	26
BB-2VA1-V1-M-029			111 ± 34	44	24 ± 12	26
BB-2VA1-V1-M-030			17 ± 14	44	16 ± 10	26
BB-2VA1-V1-M-031			6 ± 8	44	21 ± 11	26
BB-2VA1-V1-M-032			12 ± 11	44	15 ± 10	26
BB-2VA1-V1-M-033			25 ± 16	44	12 ± 8	26
BB-2VA1-V1-M-034			6 ± 8	44	12 ± 8	26
BB-2VA1-V1-M-035			0 ± 0	44	30 ± 13	26
BB-2VA1-V1-M-036			13 ± 12	44	20 ± 11	26
BB-2VA1-V1-M-037			32 ± 19	44	16 ± 10	26
BB-2VA1-V1-M-038			34 ± 19	44	9 ± 7	26
BB-2VA1-V1-M-039			13 ± 12	44	18 ± 10	26
BB-2VA1-V1-M-040			0 ± 0	44	25 ± 12	26
BB-2VA1-V1-M-041			2 ± 5	44	25 ± 12	26
BB-2VA1-V1-M-042			51 ± 23	44	17 ± 10	26
BB-2VA1-V1-M-043			22 ± 15	44	5 ± 5	26
BB-2VA1-V1-M-044			14 ± 12	44	8 ± 7	26
BB-2VA1-V1-M-045			19 ± 14	44	16 ± 10	26
BB-2VA1-V1-M-046			51 ± 23	44	16 ± 10	26
BB-2VA1-V1-M-047			34 ± 19	44	25 ± 12	26
BB-2VA1-V1-M-048			30 ± 18	44	11 ± 8	26
BB-2VA1-V1-M-049			29 ± 18	44	8 ± 7	26
BB-2VA1-V1-M-050			35 ± 19	44	20 ± 11	26

**Note: All activity results reported in dpm/100cm<sup>2</sup>**

## Building Systems Final Status Survey Results

Building BB	Survey Unit 2VA1				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
BB-2VA1-V1-M-051			25 ± 16	44	20 ± 11	26
BB-2VA1-V1-M-052			75 ± 28	44	15 ± 9	26
BB-2VA1-V1-M-053			37 ± 20	44	13 ± 9	26
BB-2VA1-V1-M-054			57 ± 25	44	14 ± 9	26
BB-2VA1-V1-M-055			15 ± 12	44	14 ± 9	26
BB-2VA1-V1-M-056			12 ± 11	44	16 ± 10	26
BB-2VA1-V1-M-057			15 ± 13	44	15 ± 9	26
BB-2VA1-V1-M-058			11 ± 11	44	7 ± 6	26
BB-2VA1-V1-M-059			29 ± 18	44	11 ± 8	26
BB-2VA1-V1-M-060			10 ± 10	44	13 ± 9	26
BB-2VA1-V1-M-061			25 ± 16	44	15 ± 10	26
BB-2VA1-V1-M-062			17 ± 14	44	12 ± 9	26
BB-2VA1-V1-M-063			13 ± 12	44	14 ± 9	26
BB-2VA1-V1-M-064			27 ± 17	44	14 ± 9	26
BB-2VA1-V1-M-065			13 ± 12	44	10 ± 8	26
BB-2VA1-V1-M-066			82 ± 30	44	17 ± 10	26
BB-2VA1-V1-M-067			51 ± 23	44	10 ± 8	26
BB-2VA1-V1-M-068			19 ± 14	44	21 ± 11	26
BB-2VA1-V1-M-069			26 ± 17	44	12 ± 9	26
BB-2VA1-V1-M-070			15 ± 12	44	6 ± 6	26
BB-2VA1-V1-M-071			39 ± 20	44	19 ± 11	26
BB-2VA1-V1-M-072			21 ± 15	44	16 ± 10	26
BB-2VA1-V1-M-073			24 ± 16	44	14 ± 9	26
BB-2VA1-V1-M-074			16 ± 13	44	20 ± 11	26
BB-2VA1-V1-M-075			25 ± 16	44	11 ± 8	26

**Note: All activity results reported in dpm/100cm<sup>2</sup>**

## Building Systems Final Status Survey Results

Building BB	Survey Unit 2VA1				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
BB-2VA1-V1-M-076			23 ± 16	44	16 ± 10	26
BB-2VA1-V1-M-077			36 ± 20	44	11 ± 8	26
BB-2VA1-V1-M-078			48 ± 23	44	14 ± 9	26
BB-2VA1-V1-M-079			24 ± 16	44	12 ± 8	26
BB-2VA1-V1-M-080			22 ± 15	44	15 ± 9	26
BB-2VA1-V1-M-081			23 ± 16	44	14 ± 9	26
BB-2VA1-V1-M-082			12 ± 11	44	14 ± 9	26
BB-2VA1-V1-M-083			67 ± 27	44	19 ± 11	26
BB-2VA1-V1-M-084			31 ± 18	44	11 ± 8	26
BB-2VA1-V1-M-085			15 ± 13	44	20 ± 11	26
BB-2VA1-V1-M-086			27 ± 17	44	12 ± 8	26
BB-2VA1-V1-M-087			0 ± 0	44	22 ± 11	26
BB-2VA1-V1-M-088			68 ± 27	44	15 ± 10	26
BB-2VA1-V1-M-089			7 ± 9	44	17 ± 10	26
BB-2VA1-V1-M-090			22 ± 15	44	12 ± 8	26
BB-2VA1-V1-M-091			36 ± 20	44	13 ± 9	26
BB-2VA1-V1-M-092			32 ± 19	44	16 ± 10	26
BB-2VA1-V1-M-093			17 ± 13	44	14 ± 9	26
BB-2VA1-V1-M-094			0 ± 0	44	18 ± 10	26
BB-2VA1-V1-M-095			26 ± 17	44	27 ± 13	26
BB-2VA1-V1-M-096			19 ± 14	44	16 ± 10	26
BB-2VA1-V1-M-097			24 ± 16	44	14 ± 9	26
BB-2VA1-V1-M-098			21 ± 15	44	14 ± 9	26
BB-2VA1-V1-M-099			107 ± 34	44	11 ± 8	26
BB-2VA1-V1-M-100			55 ± 24	44	11 ± 8	26

Note: All activity results reported in dpm/100cm<sup>2</sup>



## Building Systems Final Status Survey Results

Building BB	Survey Unit 2VA2				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
BB-2VA2-V1-M-001			21 ± 15	44	7 ± 6	26
BB-2VA2-V1-M-002			15 ± 13	44	16 ± 10	26
BB-2VA2-V1-M-003			13 ± 12	44	13 ± 9	26
BB-2VA2-V1-M-004			5 ± 7	44	20 ± 11	26
BB-2VA2-V1-M-005			12 ± 11	44	16 ± 10	26
BB-2VA2-V1-M-006			18 ± 14	44	14 ± 9	26
BB-2VA2-V1-M-007			18 ± 14	44	9 ± 7	26
BB-2VA2-V1-M-008			27 ± 17	44	5 ± 5	26
BB-2VA2-V1-M-009			16 ± 13	44	18 ± 10	26
BB-2VA2-V1-M-010			32 ± 18	44	16 ± 10	26
BB-2VA2-V1-M-011			15 ± 13	44	14 ± 9	26
BB-2VA2-V1-M-012			6 ± 8	44	12 ± 8	26
BB-2VA2-V1-M-013			35 ± 19	44	7 ± 6	26
BB-2VA2-V1-M-014			23 ± 16	44	8 ± 7	26
BB-2VA2-V1-M-015			19 ± 14	44	14 ± 9	26
BB-2VA2-V1-M-016			26 ± 17	44	12 ± 8	26
BB-2VA2-V1-M-017			18 ± 14	44	7 ± 6	26
BB-2VA2-V1-M-018			17 ± 13	44	8 ± 7	26
BB-2VA2-V1-M-019			19 ± 14	44	19 ± 11	26
BB-2VA2-V1-M-020			7 ± 9	44	6 ± 6	26
BB-2VA2-V1-M-021			14 ± 12	44	16 ± 10	26
BB-2VA2-V1-M-022			34 ± 19	44	12 ± 8	26
BB-2VA2-V1-M-023			24 ± 16	44	18 ± 10	26
BB-2VA2-V1-M-024			15 ± 13	44	9 ± 7	26
BB-2VA2-V1-M-025			24 ± 16	44	15 ± 9	26

**Note: All activity results reported in dpm/100cm<sup>2</sup>**



## Building Systems Final Status Survey Results

Building BB	Survey Unit 2VA2				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
BB-2VA2-V1-M-026			16 ± 13	44	13 ± 9	26
BB-2VA2-V1-M-027			26 ± 17	44	18 ± 10	26
BB-2VA2-V1-M-028			30 ± 18	44	9 ± 7	26
BB-2VA2-V1-M-029			22 ± 15	44	13 ± 9	26
BB-2VA2-V1-M-030			30 ± 18	44	10 ± 8	26
BB-2VA2-V1-M-031			11 ± 11	44	12 ± 8	26
BB-2VA2-V1-M-032			24 ± 16	44	13 ± 9	26
BB-2VA2-V1-M-033			12 ± 11	44	18 ± 10	26
BB-2VA2-V1-M-034			29 ± 18	44	10 ± 8	26
BB-2VA2-V1-M-035			18 ± 14	44	10 ± 8	26
BB-2VA2-V1-M-036			25 ± 16	44	7 ± 6	26
BB-2VA2-V1-M-037			28 ± 17	44	17 ± 10	26
BB-2VA2-V1-M-038			16 ± 13	44	13 ± 9	26
BB-2VA2-V1-M-039			22 ± 15	44	9 ± 7	26
BB-2VA2-V1-M-040			20 ± 15	44	9 ± 7	26
BB-2VA2-V1-M-041			10 ± 10	44	15 ± 9	26
BB-2VA2-V1-M-042			19 ± 14	44	9 ± 7	26
BB-2VA2-V1-M-043			13 ± 12	44	12 ± 8	26
BB-2VA2-V1-M-044			18 ± 14	44	9 ± 7	26
BB-2VA2-V1-M-045			16 ± 13	44	6 ± 6	26
BB-2VA2-V1-M-046			17 ± 13	44	13 ± 9	26
BB-2VA2-V1-M-047			9 ± 10	44	22 ± 11	26
BB-2VA2-V1-M-048			8 ± 9	44	18 ± 10	26
BB-2VA2-V1-M-049			9 ± 10	44	18 ± 10	26
BB-2VA2-V1-M-050			20 ± 15	44	12 ± 8	26

**Note: All activity results reported in dpm/100cm<sup>2</sup>**

## Building Systems Final Status Survey Results

Building BB	Survey Unit 2VA2				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
BB-2VA2-V1-M-051			18 ± 14	44	12 ± 8	26
BB-2VA2-V1-M-052			17 ± 13	44	8 ± 7	26
BB-2VA2-V1-M-053			17 ± 13	44	9 ± 7	26
BB-2VA2-V1-M-054			0 ± 0	44	14 ± 9	26
BB-2VA2-V1-M-055			15 ± 13	44	9 ± 7	26
BB-2VA2-V1-M-056			11 ± 11	44	17 ± 10	26
BB-2VA2-V1-M-057			25 ± 16	44	10 ± 8	26
BB-2VA2-V1-M-058			17 ± 13	44	8 ± 7	26
BB-2VA2-V1-M-059			12 ± 11	44	11 ± 8	26
BB-2VA2-V1-M-060			9 ± 10	44	15 ± 9	26
BB-2VA2-V1-M-061			13 ± 12	44	14 ± 9	26
BB-2VA2-V1-M-062			23 ± 16	44	9 ± 7	26
BB-2VA2-V1-M-063			11 ± 11	44	11 ± 8	26
BB-2VA2-V1-M-064			27 ± 17	44	12 ± 8	26
BB-2VA2-V1-M-065			10 ± 10	44	22 ± 11	26
BB-2VA2-V1-M-066			4 ± 7	44	20 ± 11	26
BB-2VA2-V1-M-067			25 ± 16	44	8 ± 7	26
BB-2VA2-V1-M-068			27 ± 17	44	12 ± 8	26
BB-2VA2-V1-M-069			10 ± 10	44	19 ± 11	26
BB-2VA2-V1-M-070			21 ± 15	44	8 ± 7	26
BB-2VA2-V1-M-071			16 ± 13	44	10 ± 8	26
BB-2VA2-V1-M-072			14 ± 12	44	12 ± 8	26
BB-2VA2-V1-M-073			29 ± 18	44	13 ± 9	26
BB-2VA2-V1-M-074			25 ± 16	44	18 ± 10	26
BB-2VA2-V1-M-075			12 ± 11	44	11 ± 8	26

Note: All activity results reported in dpm/100cm<sup>2</sup>

## Building Systems Final Status Survey Results

Building BB	Survey Unit 2VA2				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
BB-2VA2-V1-M-076			33 ± 19	44	6 ± 6	26
BB-2VA2-V1-M-077			12 ± 11	44	13 ± 9	26
BB-2VA2-V1-M-078			13 ± 12	44	14 ± 9	26
BB-2VA2-V1-M-079			23 ± 16	44	7 ± 6	26
BB-2VA2-V1-M-080			17 ± 13	44	9 ± 7	26
BB-2VA2-V1-M-081			11 ± 11	44	8 ± 7	26
BB-2VA2-V1-M-082			15 ± 13	44	9 ± 7	26
BB-2VA2-V1-M-083			17 ± 13	44	15 ± 9	26
BB-2VA2-V1-M-084			5 ± 7	44	10 ± 8	26
BB-2VA2-V1-M-085			25 ± 16	44	10 ± 8	26
BB-2VA2-V1-M-086			19 ± 14	44	17 ± 10	26
BB-2VA2-V1-M-087			18 ± 14	44	12 ± 8	26
BB-2VA2-V1-M-088			27 ± 17	44	17 ± 10	26
BB-2VA2-V1-M-089			27 ± 17	44	15 ± 9	26
BB-2VA2-V1-M-090			11 ± 11	44	12 ± 8	26
BB-2VA2-V1-M-091			19 ± 14	44	7 ± 6	26
BB-2VA2-V1-M-092			11 ± 11	44	23 ± 12	26
BB-2VA2-V1-M-093			13 ± 12	44	8 ± 7	26
BB-2VA2-V1-M-094			10 ± 10	44	17 ± 10	26
BB-2VA2-V1-M-095			25 ± 16	44	10 ± 8	26
BB-2VA2-V1-M-096			20 ± 15	44	13 ± 9	26
BB-2VA2-V1-M-097			26 ± 17	44	6 ± 6	26
BB-2VA2-V1-M-098			22 ± 15	44	21 ± 11	26
BB-2VA2-V1-M-099			4 ± 7	44	16 ± 10	26
BB-2VA2-V1-M-100			21 ± 15	44	8 ± 7	26

**Note: All activity results reported in dpm/100cm<sup>2</sup>**

## Building Systems Final Status Survey Results

Building BB	Survey Unit 2VA2				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
BB-2VA2-V1-M-101			28 ± 17	44	11 ± 8	26
BB-2VA2-V1-M-102			6 ± 8	44	11 ± 8	26
BB-2VA2-V1-M-103			29 ± 18	44	9 ± 7	26
BB-2VA2-V1-M-104			26 ± 17	44	18 ± 10	26
BB-2VA2-V1-M-105			14 ± 12	44	14 ± 9	26
BB-2VA2-V1-M-106			17 ± 13	44	7 ± 6	26
BB-2VA2-V1-M-107			32 ± 18	44	12 ± 8	26
BB-2VA2-V1-M-108			2 ± 5	44	16 ± 10	26
BB-2VA2-V1-M-109			22 ± 15	44	19 ± 11	26
BB-2VA2-V1-M-110			23 ± 16	44	22 ± 11	26
BB-2VA2-V1-M-111			14 ± 12	44	12 ± 8	26
BB-2VA2-V1-M-112			14 ± 12	44	19 ± 11	26
BB-2VA2-V1-M-113			14 ± 12	44	2 ± 3	26
BB-2VA2-V1-M-114			13 ± 12	44	14 ± 9	26
BB-2VA2-V1-M-115			6 ± 8	44	15 ± 9	26
BB-2VA2-V1-M-116			9 ± 10	44	14 ± 9	26
BB-2VA2-V1-M-117			12 ± 11	44	19 ± 11	26
BB-2VA2-V1-M-118			21 ± 15	44	7 ± 6	26
BB-2VA2-V1-M-119			7 ± 9	44	22 ± 11	26
BB-2VA2-V1-M-120			25 ± 16	44	18 ± 10	26
BB-2VA2-V1-M-121			26 ± 17	44	4 ± 5	26
BB-2VA2-V1-M-122			16 ± 13	44	21 ± 11	26
BB-2VA2-V1-M-123			17 ± 13	44	23 ± 12	26
BB-2VA2-V1-M-124			18 ± 14	44	14 ± 9	26
BB-2VA2-V1-M-125			36 ± 20	44	8 ± 7	26

**Note: All activity results reported in dpm/100cm<sup>2</sup>**

## Building Systems Final Status Survey Results

Building BB	Survey Unit 2VA2				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
BB-2VA2-V1-M-126			13 ± 12	44	14 ± 9	26
BB-2VA2-V1-M-127			9 ± 10	44	15 ± 9	26
BB-2VA2-V1-M-128			15 ± 13	44	18 ± 10	26
BB-2VA2-V1-M-129			5 ± 7	44	9 ± 7	26
BB-2VA2-V1-M-130			9 ± 10	44	10 ± 8	26
BB-2VA2-V1-M-131			26 ± 17	44	11 ± 8	26
BB-2VA2-V1-M-132			18 ± 14	44	16 ± 10	26
BB-2VA2-V1-M-133			15 ± 13	44	13 ± 9	26
BB-2VA2-V1-M-134			46 ± 22	44	9 ± 7	26
BB-2VA2-V1-M-135			25 ± 16	44	8 ± 7	26
BB-2VA2-V1-M-136			20 ± 15	44	19 ± 11	26
BB-2VA2-V1-M-137			13 ± 12	44	12 ± 8	26
BB-2VA2-V1-M-138			12 ± 11	44	9 ± 7	26
BB-2VA2-V1-M-139			12 ± 11	44	20 ± 11	26
<b>Summary for Survey Unit # 2VA2 (139 detail records)</b>						
<b>Average</b>			18		13	
<b>Minimum</b>			0		2	
<b>Maximum</b>			46		23	
<b>Standard Deviation</b>			8		5	

**Note: All activity results reported in dpm/100cm<sup>2</sup>**

## Building Systems Final Status Survey Results

Building BB	Survey Unit 2VE1				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
BB-2VE1-E2-M-001			25 ± 16	44	23 ± 12	26
BB-2VE1-E2-M-002			22 ± 15	44	13 ± 9	26
BB-2VE1-E2-M-003			30 ± 18	44	14 ± 9	26
BB-2VE1-E1-M-004			22 ± 15	44	10 ± 8	26
BB-2VE1-E1-M-005			15 ± 13	44	19 ± 11	26
BB-2VE1-E2-M-006			17 ± 13	44	15 ± 10	26
BB-2VE1-E1-M-007			20 ± 15	44	9 ± 7	26
BB-2VE1-E1-M-008			10 ± 10	44	12 ± 8	26
BB-2VE1-E1-M-009			10 ± 11	44	14 ± 9	26
BB-2VE1-E1-M-010			10 ± 10	44	14 ± 9	26
BB-2VE1-E1-M-011			20 ± 15	44	7 ± 7	26
BB-2VE1-E1-M-012			16 ± 13	44	15 ± 10	26
BB-2VE1-E1-M-013			5 ± 7	44	19 ± 11	26
BB-2VE1-E1-M-014			10 ± 10	44	14 ± 9	26
BB-2VE1-E1-M-015			30 ± 18	44	14 ± 9	26
BB-2VE1-E1-M-016			16 ± 13	44	10 ± 8	26
BB-2VE1-E1-M-017			8 ± 9	44	14 ± 9	26
BB-2VE1-E1-M-018			26 ± 17	44	12 ± 8	26
BB-2VE1-E1-M-019			21 ± 15	44	10 ± 8	26
BB-2VE1-E1-M-020			22 ± 15	44	17 ± 10	26
BB-2VE1-E1-M-021			25 ± 16	44	18 ± 10	26
BB-2VE1-E2-M-022			8 ± 9	44	17 ± 10	26
BB-2VE1-E1-M-023			17 ± 13	44	12 ± 9	26
BB-2VE1-E1-M-024			18 ± 14	44	9 ± 7	26
BB-2VE1-E1-M-025			23 ± 16	44	18 ± 10	26

**Note: All activity results reported in dpm/100cm<sup>2</sup>**

## Building Systems Final Status Survey Results

Building	Survey Unit		Removable Activity Measurements		Class:	
BB	2VE1				N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u> Activity	MDC	<u>Carbon-14</u> Activity	MDC
BB-2VE1-E1-M-026			16 ± 13	44	11 ± 8	26
BB-2VE1-E1-M-027			17 ± 13	44	12 ± 9	26
BB-2VE1-E1-M-028			14 ± 12	44	9 ± 7	26
BB-2VE1-E1-M-029			18 ± 14	44	16 ± 10	26
BB-2VE1-E1-M-030			14 ± 12	44	16 ± 10	26
BB-2VE1-E1-M-031			5 ± 7	44	17 ± 10	26
BB-2VE1-E1-M-032			24 ± 16	44	20 ± 11	26
BB-2VE1-E1-M-033			27 ± 17	44	17 ± 10	26
BB-2VE1-E1-M-034			12 ± 11	44	16 ± 10	26
BB-2VE1-E1-M-035			15 ± 13	44	18 ± 11	26
BB-2VE1-E1-M-036			7 ± 9	44	11 ± 8	26
BB-2VE1-E1-M-037			29 ± 17	44	20 ± 11	26
BB-2VE1-E1-M-038			17 ± 13	44	15 ± 9	26
BB-2VE1-E2-M-039			9 ± 10	44	13 ± 9	26
BB-2VE1-E1-M-040			26 ± 17	44	7 ± 7	26
BB-2VE1-E1-M-041			23 ± 16	44	18 ± 10	26
BB-2VE1-E1-M-042			23 ± 16	44	8 ± 7	26
BB-2VE1-E1-M-043			14 ± 12	44	21 ± 11	26
BB-2VE1-E1-M-044			27 ± 17	44	19 ± 11	26
BB-2VE1-E1-M-045			15 ± 13	44	13 ± 9	26
BB-2VE1-E1-M-046			21 ± 15	44	15 ± 9	26
BB-2VE1-E1-M-047			19 ± 14	44	16 ± 10	26
BB-2VE1-E1-M-048			7 ± 9	44	18 ± 10	26
BB-2VE1-E1-M-049			15 ± 13	44	12 ± 9	26
BB-2VE1-E1-M-050			7 ± 9	44	16 ± 10	26

**Note:** All activity results reported in dpm/100cm<sup>2</sup>

## Building Systems Final Status Survey Results

Building BB	Survey Unit 2VE1				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
BB-2VE1-E1-M-051			21 ± 15	44	12 ± 9	26
BB-2VE1-E1-M-052			19 ± 14	44	12 ± 9	26
BB-2VE1-E1-M-053			2 ± 5	44	23 ± 12	26
BB-2VE1-E1-M-054			4 ± 7	44	10 ± 8	26
BB-2VE1-E1-M-055			11 ± 11	44	19 ± 11	26
BB-2VE1-E2-M-056			15 ± 13	44	28 ± 13	26
BB-2VE1-E1-M-057			20 ± 15	44	11 ± 8	26
BB-2VE1-E1-M-058			16 ± 13	44	19 ± 11	26
BB-2VE1-E1-M-059			22 ± 15	44	20 ± 11	26
BB-2VE1-E1-M-060			27 ± 17	44	10 ± 8	26
BB-2VE1-E1-M-061			14 ± 12	44	9 ± 7	26
BB-2VE1-E1-M-062			9 ± 10	44	20 ± 11	26
BB-2VE1-E1-M-063			11 ± 11	44	10 ± 8	26
BB-2VE1-E1-M-064			25 ± 16	44	13 ± 9	26
BB-2VE1-E1-M-065			13 ± 12	44	11 ± 8	26
BB-2VE1-E1-M-066			13 ± 12	44	19 ± 11	26
BB-2VE1-E1-M-067			26 ± 17	44	14 ± 9	26
BB-2VE1-E1-M-068			11 ± 11	44	12 ± 8	26
BB-2VE1-E1-M-069			16 ± 13	44	16 ± 10	26
BB-2VE1-E1-M-070			18 ± 14	44	10 ± 8	26
BB-2VE1-E1-M-071			27 ± 17	44	15 ± 10	26
BB-2VE1-E1-M-072			9 ± 10	44	17 ± 10	26
BB-2VE1-E2-M-073			16 ± 13	44	16 ± 10	26
BB-2VE1-E1-M-074			17 ± 14	44	17 ± 10	26
BB-2VE1-E1-M-075			33 ± 19	44	13 ± 9	26

**Note: All activity results reported in dpm/100cm<sup>2</sup>**



## Building Systems Final Status Survey Results

Building BB	Survey Unit 2VE1				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
BB-2VE1-E1-M-076			11 ± 11	44	15 ± 9	26
BB-2VE1-E1-M-077			18 ± 14	44	16 ± 10	26
BB-2VE1-E1-M-078			15 ± 12	44	14 ± 9	26
BB-2VE1-E1-M-079			13 ± 12	44	17 ± 10	26
BB-2VE1-E1-M-080			28 ± 17	44	15 ± 9	26
BB-2VE1-E1-M-081			8 ± 9	44	12 ± 8	26
BB-2VE1-E1-M-082			7 ± 8	44	9 ± 7	26
BB-2VE1-E1-M-083			11 ± 11	44	15 ± 9	26
BB-2VE1-E2-M-084			7 ± 9	44	21 ± 11	26
BB-2VE1-E1-M-085			26 ± 17	44	8 ± 7	26
BB-2VE1-E1-M-086			23 ± 16	44	8 ± 7	26
BB-2VE1-E1-M-087			20 ± 14	44	12 ± 9	26
BB-2VE1-E1-M-088			20 ± 15	44	19 ± 11	26
BB-2VE1-E1-M-089			24 ± 16	44	13 ± 9	26
Summary for Survey Unit # 2VE1 (89 detail records)						
<b>Average</b>			17		15	
<b>Minimum</b>			2		7	
<b>Maximum</b>			33		28	
<b>Standard Deviation</b>			7		4	

**Note: All activity results reported in dpm/100cm<sup>2</sup>**



## Building Systems Final Status Survey Results

Building BB	Survey Unit 2VE2				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
BB-2VE2-E1-M-026			19 ± 14	44	13 ± 9	26
BB-2VE2-E1-M-027			18 ± 14	44	23 ± 12	26
BB-2VE2-E1-M-028			7 ± 9	44	13 ± 9	26
BB-2VE2-E2-M-029			23 ± 16	44	16 ± 10	26
BB-2VE2-E1-M-030			24 ± 16	44	11 ± 8	26
BB-2VE2-E1-M-031			11 ± 11	44	14 ± 9	26
BB-2VE2-E1-M-032			32 ± 18	44	4 ± 5	26
BB-2VE2-E1-M-033			15 ± 13	44	17 ± 10	26
BB-2VE2-E1-M-034			13 ± 12	44	6 ± 6	26
BB-2VE2-E1-M-035			12 ± 11	44	9 ± 7	26
BB-2VE2-E1-M-036			15 ± 13	44	21 ± 11	26
BB-2VE2-E1-M-037			10 ± 10	44	18 ± 10	26
BB-2VE2-E1-M-038			1 ± 3	44	18 ± 10	26
BB-2VE2-E1-M-039			17 ± 13	44	10 ± 8	26
BB-2VE2-E1-M-040			14 ± 12	44	13 ± 9	26
BB-2VE2-E1-M-041			8 ± 9	44	15 ± 9	26
BB-2VE2-E1-M-042			17 ± 13	44	19 ± 11	26
BB-2VE2-E1-M-043			17 ± 13	44	10 ± 8	26
BB-2VE2-E1-M-044			18 ± 14	44	12 ± 8	26
BB-2VE2-E1-M-045			28 ± 17	44	13 ± 9	26
BB-2VE2-E2-M-046			5 ± 7	44	27 ± 13	26
BB-2VE2-E1-M-047			8 ± 9	44	11 ± 8	26
BB-2VE2-E1-M-048			22 ± 15	44	15 ± 9	26
BB-2VE2-E1-M-049			17 ± 13	44	19 ± 11	26
BB-2VE2-E1-M-050			7 ± 9	44	12 ± 8	26

**Note: All activity results reported in dpm/100cm<sup>2</sup>**

## Building Systems Final Status Survey Results

Building BB	Survey Unit 2VE2				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
BB-2VE2-E1-M-051			14 ± 12	44	13 ± 9	26
BB-2VE2-E1-M-052			17 ± 13	44	18 ± 10	26
BB-2VE2-E1-M-053			17 ± 13	44	10 ± 8	26
BB-2VE2-E1-M-054			15 ± 13	44	9 ± 7	26
BB-2VE2-E1-M-055			11 ± 11	44	17 ± 10	26
BB-2VE2-E1-M-056			12 ± 11	44	12 ± 8	26
BB-2VE2-E1-M-057			25 ± 16	44	19 ± 11	26
BB-2VE2-E1-M-058			14 ± 12	44	7 ± 6	26
BB-2VE2-E1-M-059			16 ± 13	44	12 ± 8	26
BB-2VE2-E1-M-060			13 ± 12	44	13 ± 9	26
BB-2VE2-E1-M-061			12 ± 11	44	17 ± 10	26
BB-2VE2-E2-M-062			9 ± 10	44	20 ± 11	26
BB-2VE2-E1-M-063			26 ± 17	44	9 ± 7	26
BB-2VE2-E1-M-064			14 ± 12	44	13 ± 9	26
BB-2VE2-E1-M-065			6 ± 8	44	17 ± 10	26
BB-2VE2-E1-M-066			27 ± 17	44	9 ± 7	26
BB-2VE2-E1-M-067			23 ± 16	44	14 ± 9	26
BB-2VE2-E1-M-068			7 ± 9	44	16 ± 10	26
BB-2VE2-E1-M-069			21 ± 15	44	16 ± 10	26
BB-2VE2-E1-M-070			15 ± 13	44	17 ± 10	26
BB-2VE2-E1-M-071			6 ± 8	44	17 ± 10	26
BB-2VE2-E1-M-072			20 ± 15	44	10 ± 8	26
BB-2VE2-E1-M-073			45 ± 22	44	11 ± 8	26
BB-2VE2-E1-M-074			20 ± 15	44	14 ± 9	26
BB-2VE2-E1-M-075			28 ± 17	44	6 ± 6	26

**Note: All activity results reported in dpm/100cm<sup>2</sup>**

## Building Systems Final Status Survey Results

Building BB	Survey Unit 2VE2				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
BB-2VE2-E2-M-076			19 ± 14	44	9 ± 7	26
BB-2VE2-E1-M-077			20 ± 15	44	10 ± 8	26
BB-2VE2-E1-M-078			5 ± 7	44	21 ± 11	26
BB-2VE2-E1-M-079			16 ± 13	44	12 ± 8	26
BB-2VE2-E1-M-080			8 ± 9	44	18 ± 10	26
BB-2VE2-E1-M-081			24 ± 16	44	11 ± 8	26
BB-2VE2-E1-M-082			18 ± 14	44	14 ± 9	26
BB-2VE2-E1-M-083			3 ± 6	44	18 ± 10	26
BB-2VE2-E1-M-084			23 ± 16	44	15 ± 9	26
BB-2VE2-E1-M-085			17 ± 13	44	8 ± 7	26
BB-2VE2-E1-M-086			25 ± 16	44	16 ± 10	26
BB-2VE2-E1-M-087			15 ± 13	44	22 ± 11	26
BB-2VE2-E1-M-088			13 ± 12	44	14 ± 9	26
BB-2VE2-E1-M-089			17 ± 13	44	7 ± 6	26
BB-2VE2-E1-M-090			14 ± 12	44	12 ± 8	26
BB-2VE2-E1-M-091			18 ± 14	44	13 ± 9	26
BB-2VE2-E2-M-092			5 ± 7	44	15 ± 9	26
BB-2VE2-E1-M-093			26 ± 17	44	5 ± 5	26
BB-2VE2-E1-M-094			15 ± 13	44	8 ± 7	26
BB-2VE2-E1-M-095			8 ± 9	44	19 ± 11	26
BB-2VE2-E1-M-096			28 ± 17	44	11 ± 8	26
BB-2VE2-E1-M-097			6 ± 8	44	7 ± 6	26
BB-2VE2-E1-M-098			18 ± 14	44	12 ± 8	26
BB-2VE2-E1-M-099			17 ± 13	44	14 ± 9	26
BB-2VE2-E1-M-100			22 ± 15	44	7 ± 6	26

Note: All activity results reported in dpm/100cm<sup>2</sup>



## Building Systems Final Status Survey Results

Building BB	Survey Unit 3DR1				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
BB-3DR1-D3-M-001			15 ± 13	44	14 ± 9	26
BB-3DR1-D3-M-002			15 ± 13	44	13 ± 9	26
BB-3DR1-D3-M-003			7 ± 9	44	19 ± 11	26
BB-3DR1-D3-M-004			22 ± 15	44	14 ± 9	26
BB-3DR1-D3-M-005			32 ± 18	44	8 ± 7	26
BB-3DR1-D3-M-006			12 ± 11	44	9 ± 7	26
BB-3DR1-D3-M-007			18 ± 14	44	12 ± 8	26
BB-3DR1-D3-M-008			19 ± 14	44	15 ± 9	26
BB-3DR1-D3-M-009			20 ± 15	44	13 ± 9	26
BB-3DR1-D3-M-010			27 ± 17	44	11 ± 8	26
BB-3DR1-D1-M-011			21 ± 15	44	9 ± 7	26
BB-3DR1-D3-M-012			22 ± 15	44	14 ± 9	26
BB-3DR1-D3-M-013			24 ± 16	44	13 ± 9	26
BB-3DR1-D3-M-014			14 ± 12	44	18 ± 10	26
BB-3DR1-D3-M-015			20 ± 15	44	8 ± 7	26
BB-3DR1-D3-M-016			17 ± 13	44	14 ± 9	26
BB-3DR1-D3-M-017			20 ± 15	44	8 ± 7	26
BB-3DR1-D3-M-018			27 ± 17	44	10 ± 8	26
BB-3DR1-D1-M-019			21 ± 15	44	8 ± 7	26
BB-3DR1-D1-M-020			6 ± 8	44	10 ± 8	26
BB-3DR1-D1-M-021			22 ± 15	44	10 ± 8	26
BB-3DR1-D1-M-022			18 ± 14	44	12 ± 8	26
BB-3DR1-D2-M-023			17 ± 13	44	9 ± 7	26
BB-3DR1-D3-M-024			34 ± 19	44	9 ± 7	26

**Note: All activity results reported in dpm/100cm<sup>2</sup>**

## Building Systems Final Status Survey Results

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<b>Building BB</b>	<b>Survey Unit 3DR1</b>				<b>Class: N/A</b>	
<b>Location Code</b>	<b><u>Total Beta Activity Measurements</u></b>		<b><u>Removable Activity Measurements</u></b>			
	<b>Activity</b>	<b>MDC</b>	<b><u>Tritium</u></b>		<b><u>Carbon-14</u></b>	
			<b>Activity</b>	<b>MDC</b>	<b>Activity</b>	<b>MDC</b>
Summary for Survey Unit # 3DR1 (24 detail records)						
<b>Average</b>			20		12	
<b>Minimum</b>			6		8	
<b>Maximum</b>			34		19	
<b>Standard Deviation</b>			7		3	

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**Note: All activity results reported in dpm/100cm<sup>2</sup>**



## Building Systems Final Status Survey Results

Building	Survey Unit		3DR2		Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
BB-3DR2-D3-M-001			19 ± 14	44	18 ± 10	26
BB-3DR2-D3-M-002			0 ± 0	44	15 ± 9	26
BB-3DR2-D3-M-003			18 ± 14	44	12 ± 8	26
BB-3DR2-D3-M-004			9 ± 10	44	14 ± 9	26
BB-3DR2-D1-M-005			31 ± 18	44	10 ± 8	26
BB-3DR2-D3-M-006			21 ± 15	44	8 ± 7	26
BB-3DR2-D3-M-007			19 ± 14	44	8 ± 7	26
BB-3DR2-D3-M-008			20 ± 15	44	12 ± 8	26
BB-3DR2-D3-M-009			26 ± 17	44	6 ± 6	26
BB-3DR2-D3-M-010			29 ± 18	44	12 ± 8	26
BB-3DR2-D3-M-011			26 ± 17	44	15 ± 9	26
BB-3DR2-D3-M-012			24 ± 16	44	6 ± 6	26
BB-3DR2-D3-M-013			18 ± 14	44	15 ± 9	26
BB-3DR2-D3-M-014			22 ± 15	44	14 ± 9	26
BB-3DR2-D3-M-015			4 ± 7	44	8 ± 7	26
BB-3DR2-D1-M-016			22 ± 15	44	11 ± 8	26
BB-3DR2-D3-M-017			29 ± 18	44	17 ± 10	26
BB-3DR2-D3-M-018			26 ± 17	44	5 ± 5	26
BB-3DR2-D3-M-019			31 ± 18	44	7 ± 6	26
BB-3DR2-D3-M-020			19 ± 14	44	9 ± 7	26
BB-3DR2-D3-M-021			18 ± 14	44	10 ± 8	26
BB-3DR2-D3-M-022			21 ± 15	44	15 ± 9	26
BB-3DR2-D3-M-023			21 ± 15	44	8 ± 7	26
BB-3DR2-D3-M-024			18 ± 14	44	13 ± 9	26
BB-3DR2-D3-M-025			13 ± 12	44	7 ± 6	26

**Note: All activity results reported in dpm/100cm<sup>2</sup>**

## Building Systems Final Status Survey Results

Building BB	Survey Unit 3DR2				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
BB-3DR2-D1-M-026			17 ± 13	44	10 ± 8	26
BB-3DR2-D3-M-027			9 ± 10	44	22 ± 11	26
BB-3DR2-D3-M-028			18 ± 14	44	10 ± 8	26
BB-3DR2-D3-M-029			18 ± 14	44	9 ± 7	26
BB-3DR2-D3-M-030			11 ± 11	44	9 ± 7	26
BB-3DR2-D1-M-031			12 ± 11	44	8 ± 7	26
BB-3DR2-D3-M-032			31 ± 18	44	11 ± 8	26
BB-3DR2-D3-M-033			25 ± 16	44	10 ± 8	26
BB-3DR2-D1-M-034			16 ± 13	44	19 ± 11	26
BB-3DR2-D3-M-035			20 ± 15	44	12 ± 8	26
Summary for Survey Unit # 3DR2 (35 detail records)						
<b>Average</b>			19		11	
<b>Minimum</b>			0		5	
<b>Maximum</b>			31		22	
<b>Standard Deviation</b>			7		4	

**Note: All activity results reported in dpm/100cm<sup>2</sup>**

## Building Systems Final Status Survey Results

Building BB	Survey Unit 3VA1				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
BB-3VA1-V1-M-001			5 ± 7	44	15 ± 9	26
BB-3VA1-V1-M-002			29 ± 18	44	14 ± 9	26
BB-3VA1-V1-M-003			21 ± 15	44	18 ± 10	26
BB-3VA1-V1-M-004			29 ± 18	44	17 ± 10	26
BB-3VA1-V1-M-005			18 ± 14	44	17 ± 10	26
BB-3VA1-V1-M-006			15 ± 13	44	14 ± 9	26
BB-3VA1-V1-M-007			19 ± 14	44	16 ± 10	26
BB-3VA1-V1-M-008			10 ± 10	44	17 ± 10	26
BB-3VA1-V1-M-009			15 ± 13	44	13 ± 9	26
BB-3VA1-V1-M-010			16 ± 13	44	10 ± 8	26
BB-3VA1-V1-M-011			7 ± 9	44	24 ± 12	26
BB-3VA1-V1-M-012			21 ± 15	44	8 ± 7	26
BB-3VA1-V1-M-013			16 ± 13	44	17 ± 10	26
BB-3VA1-V1-M-014			18 ± 14	44	14 ± 9	26
BB-3VA1-V1-M-015			9 ± 10	44	16 ± 10	26
BB-3VA1-V1-M-016			8 ± 9	44	8 ± 7	26
BB-3VA1-V1-M-017			17 ± 13	44	16 ± 10	26
BB-3VA1-V1-M-018			17 ± 13	44	17 ± 10	26
BB-3VA1-V1-M-019			5 ± 7	44	16 ± 10	26
BB-3VA1-V1-M-020			12 ± 11	44	18 ± 10	26
BB-3VA1-V1-M-021			19 ± 14	44	16 ± 10	26
BB-3VA1-V1-M-022			13 ± 12	44	8 ± 7	26
BB-3VA1-V1-M-023			15 ± 13	44	20 ± 11	26
BB-3VA1-V1-M-024			23 ± 16	44	11 ± 8	26
BB-3VA1-V1-M-025			6 ± 8	44	16 ± 10	26

**Note: All activity results reported in dpm/100cm<sup>2</sup>**

## Building Systems Final Status Survey Results

Building BB	Survey Unit 3VA1				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
BB-3VA1-V1-M-026			9 ± 10	44	14 ± 9	26
BB-3VA1-V1-M-027			11 ± 11	44	11 ± 8	26
BB-3VA1-V1-M-028			17 ± 13	44	14 ± 9	26
BB-3VA1-V1-M-029			12 ± 11	44	9 ± 7	26
BB-3VA1-V1-M-030			18 ± 14	44	18 ± 10	26
BB-3VA1-V1-M-031			23 ± 16	44	15 ± 9	26
BB-3VA1-V1-M-032			5 ± 7	44	11 ± 8	26
BB-3VA1-V1-M-033			19 ± 14	44	16 ± 10	26
BB-3VA1-V1-M-034			22 ± 15	44	14 ± 9	26
BB-3VA1-V1-M-035			15 ± 13	44	8 ± 7	26
BB-3VA1-V1-M-036			22 ± 15	44	13 ± 9	26
BB-3VA1-V1-M-037			17 ± 13	44	10 ± 8	26
BB-3VA1-V1-M-038			23 ± 16	44	6 ± 6	26
BB-3VA1-V1-M-039			21 ± 15	44	15 ± 9	26
BB-3VA1-V1-M-040			26 ± 17	44	15 ± 9	26
BB-3VA1-V1-M-041			21 ± 15	44	10 ± 8	26
BB-3VA1-V1-M-042			18 ± 14	44	11 ± 8	26
BB-3VA1-V1-M-043			15 ± 13	44	15 ± 9	26
BB-3VA1-V1-M-044			6 ± 8	44	11 ± 8	26
BB-3VA1-V1-M-045			14 ± 12	44	14 ± 9	26
BB-3VA1-V1-M-046			17 ± 13	44	15 ± 9	26
BB-3VA1-V1-M-047			14 ± 12	44	11 ± 8	26
BB-3VA1-V1-M-048			15 ± 13	44	15 ± 9	26
BB-3VA1-V1-M-049			22 ± 15	44	13 ± 9	26
BB-3VA1-V1-M-050			17 ± 13	44	9 ± 7	26

**Note: All activity results reported in dpm/100cm<sup>2</sup>**

## Building Systems Final Status Survey Results

Building BB	Survey Unit 3VA1				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
BB-3VA1-V1-M-051			3 ± 6	44	15 ± 9	26
BB-3VA1-V1-M-052			23 ± 16	44	10 ± 8	26
BB-3VA1-V1-M-053			4 ± 7	44	15 ± 9	26
BB-3VA1-V1-M-054			13 ± 12	44	13 ± 9	26
BB-3VA1-V1-M-055			11 ± 11	44	19 ± 11	26
BB-3VA1-V1-M-056			25 ± 16	44	11 ± 8	26
BB-3VA1-V1-M-057			17 ± 13	44	8 ± 7	26
BB-3VA1-V1-M-058			30 ± 18	44	14 ± 9	26
BB-3VA1-V1-M-059			23 ± 16	44	24 ± 12	26
BB-3VA1-V1-M-060			22 ± 15	44	14 ± 9	26
BB-3VA1-V1-M-061			20 ± 15	44	12 ± 8	26
BB-3VA1-V1-M-062			21 ± 15	44	12 ± 8	26
BB-3VA1-V1-M-063			15 ± 13	44	22 ± 11	26
BB-3VA1-V1-M-064			16 ± 13	44	8 ± 7	26
BB-3VA1-V1-M-065			17 ± 13	44	13 ± 9	26
BB-3VA1-V1-M-066			20 ± 15	44	12 ± 8	26
BB-3VA1-V1-M-067			14 ± 12	44	12 ± 8	26
BB-3VA1-V1-M-068			10 ± 10	44	9 ± 7	26
BB-3VA1-V1-M-069			11 ± 11	44	14 ± 9	26
BB-3VA1-V1-M-070			24 ± 16	44	21 ± 11	26
BB-3VA1-V1-M-071			19 ± 14	44	15 ± 9	26
BB-3VA1-V1-M-072			17 ± 13	44	6 ± 6	26
BB-3VA1-V1-M-073			20 ± 15	44	14 ± 9	26

**Note: All activity results reported in dpm/100cm<sup>2</sup>**



## Building Systems Final Status Survey Results

Building BB	Survey Unit 3VA2				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
BB-3VA2-V1-M-001			18 ± 14	44	9 ± 7	26
BB-3VA2-V1-M-002			15 ± 13	44	13 ± 9	26
BB-3VA2-V1-M-003			14 ± 12	44	10 ± 8	26
BB-3VA2-V1-M-004			26 ± 17	44	17 ± 10	26
BB-3VA2-V1-M-005			0 ± 0	44	19 ± 11	26
BB-3VA2-V1-M-006			17 ± 13	44	28 ± 13	26
BB-3VA2-V1-M-007			22 ± 15	44	5 ± 5	26
BB-3VA2-V1-M-008			17 ± 13	44	9 ± 7	26
BB-3VA2-V1-M-009			14 ± 12	44	11 ± 8	26
BB-3VA2-V1-M-010			13 ± 12	44	14 ± 9	26
BB-3VA2-V1-M-011			0 ± 0	44	17 ± 10	26
BB-3VA2-V1-M-012			33 ± 19	44	5 ± 5	26
BB-3VA2-V1-M-013			30 ± 18	44	10 ± 8	26
BB-3VA2-V1-M-014			5 ± 7	44	22 ± 11	26
BB-3VA2-V1-M-015			7 ± 9	44	12 ± 8	26
BB-3VA2-V1-M-016			19 ± 14	44	16 ± 10	26
BB-3VA2-V1-M-017			21 ± 15	44	16 ± 10	26
BB-3VA2-V1-M-018			7 ± 9	44	21 ± 11	26
BB-3VA2-V1-M-019			21 ± 15	44	15 ± 9	26
BB-3VA2-V1-M-020			17 ± 13	44	8 ± 7	26
BB-3VA2-V1-M-021			14 ± 12	44	3 ± 4	26
BB-3VA2-V1-M-022			28 ± 17	44	11 ± 8	26
BB-3VA2-V1-M-023			16 ± 13	44	9 ± 7	26
BB-3VA2-V1-M-024			25 ± 16	44	8 ± 7	26
BB-3VA2-V1-M-025			13 ± 12	44	20 ± 11	26

**Note: All activity results reported in dpm/100cm<sup>2</sup>**

## Building Systems Final Status Survey Results

Building BB	Survey Unit 3VA2				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
BB-3VA2-V1-M-026			20 ± 15	44	14 ± 9	26
BB-3VA2-V1-M-027			25 ± 16	44	13 ± 9	26
BB-3VA2-V1-M-028			19 ± 14	44	16 ± 10	26
BB-3VA2-V1-M-029			9 ± 10	44	13 ± 9	26
BB-3VA2-V1-M-030			22 ± 15	44	19 ± 11	26
BB-3VA2-V1-M-031			15 ± 13	44	21 ± 11	26
BB-3VA2-V1-M-032			20 ± 15	44	10 ± 8	26
BB-3VA2-V1-M-033			14 ± 12	44	18 ± 10	26
BB-3VA2-V1-M-034			21 ± 15	44	25 ± 12	26
BB-3VA2-V1-M-035			23 ± 16	44	10 ± 8	26
BB-3VA2-V1-M-036			18 ± 14	44	11 ± 8	26
BB-3VA2-V1-M-037			12 ± 11	44	16 ± 10	26
BB-3VA2-V1-M-038			12 ± 11	44	15 ± 9	26
BB-3VA2-V1-M-039			14 ± 12	44	11 ± 8	26
BB-3VA2-V1-M-040			15 ± 13	44	6 ± 6	26
BB-3VA2-V1-M-041			10 ± 10	44	18 ± 10	26
BB-3VA2-V1-M-042			9 ± 10	44	12 ± 8	26
BB-3VA2-V1-M-043			3 ± 6	44	11 ± 8	26
BB-3VA2-V1-M-044			18 ± 14	44	11 ± 8	26
BB-3VA2-V1-M-045			10 ± 10	44	19 ± 11	26
BB-3VA2-V1-M-046			28 ± 17	44	14 ± 9	26
BB-3VA2-V1-M-047			17 ± 13	44	15 ± 9	26
BB-3VA2-V1-M-048			14 ± 12	44	12 ± 8	26
BB-3VA2-V1-M-049			9 ± 10	44	19 ± 11	26

**Note: All activity results reported in dpm/100cm<sup>2</sup>**





## Building Systems Final Status Survey Results

Building BB	Survey Unit 3VE1				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
BB-3VE1-E2-M-001			18 ± 14	44	14 ± 9	26
BB-3VE1-E2-M-002			22 ± 15	44	30 ± 13	26
BB-3VE1-E1-M-003			34 ± 19	44	12 ± 8	26
BB-3VE1-E2-M-004			10 ± 10	44	11 ± 8	26
BB-3VE1-E1-M-005			14 ± 12	44	14 ± 9	26
BB-3VE1-E2-M-006			19 ± 14	44	9 ± 7	26
BB-3VE1-E1-M-007			20 ± 15	44	19 ± 11	26
BB-3VE1-E2-M-008			11 ± 11	44	16 ± 10	26
BB-3VE1-E2-M-009			17 ± 13	44	24 ± 12	26
BB-3VE1-E1-M-010			20 ± 15	44	7 ± 6	26
BB-3VE1-E2-M-011			18 ± 14	44	13 ± 9	26
BB-3VE1-E2-M-012			11 ± 11	44	12 ± 8	26
BB-3VE1-E2-M-013			12 ± 11	44	9 ± 7	26
BB-3VE1-E2-M-014			31 ± 18	44	14 ± 9	26
BB-3VE1-E2-M-015			14 ± 12	44	18 ± 10	26
BB-3VE1-E2-M-016			15 ± 13	44	8 ± 7	26
BB-3VE1-E2-M-017			28 ± 17	44	14 ± 9	26
BB-3VE1-E2-M-018			16 ± 13	44	14 ± 9	26
Summary for Survey Unit # 3VE1 (18 detail records)						
<b>Average</b>			18		14	
<b>Minimum</b>			10		7	
<b>Maximum</b>			34		30	
<b>Standard Deviation</b>			7		6	

**Note: All activity results reported in dpm/100cm<sup>2</sup>**

## Building Systems Final Status Survey Results

Building BB	Survey Unit 3VE2				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
BB-3VE2-E1-M-001			24 ± 16	44	13 ± 9	26
BB-3VE2-E2-M-002			28 ± 17	44	11 ± 8	26
BB-3VE2-E1-M-003			16 ± 13	44	13 ± 9	26
BB-3VE2-E2-M-004			6 ± 8	44	11 ± 8	26
BB-3VE2-E2-M-005			20 ± 15	44	11 ± 8	26
BB-3VE2-E1-M-006			7 ± 9	44	23 ± 12	26
BB-3VE2-E2-M-007			16 ± 13	44	10 ± 8	26
BB-3VE2-E1-M-008			14 ± 12	44	12 ± 8	26
BB-3VE2-E2-M-009			22 ± 15	44	21 ± 11	26
BB-3VE2-E2-M-010			11 ± 11	44	12 ± 8	26
BB-3VE2-E2-M-011			7 ± 9	44	13 ± 9	26
BB-3VE2-E1-M-012			21 ± 15	44	15 ± 9	26
BB-3VE2-E2-M-013			22 ± 15	44	7 ± 6	26
BB-3VE2-E1-M-014			20 ± 15	44	11 ± 8	26
BB-3VE2-E2-M-015			16 ± 13	44	12 ± 8	26
BB-3VE2-E1-M-016			21 ± 15	44	16 ± 10	26
BB-3VE2-E1-M-017			20 ± 15	44	10 ± 8	26
BB-3VE2-E2-M-018			23 ± 16	44	21 ± 11	26
BB-3VE2-E2-M-019			24 ± 16	44	8 ± 7	26
BB-3VE2-E2-M-020			17 ± 13	44	14 ± 9	26
BB-3VE2-E2-M-021			24 ± 16	44	12 ± 8	26
BB-3VE2-E2-M-022			14 ± 12	44	18 ± 10	26
BB-3VE2-E2-M-023			17 ± 13	44	15 ± 9	26
BB-3VE2-E2-M-024			20 ± 15	44	13 ± 9	26

**Note: All activity results reported in dpm/100cm<sup>2</sup>**

## Building Systems Final Status Survey Results

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<b>Building</b>	<b>BB</b>	<b>Survey Unit</b>		<b>3VE2</b>	<b>Class: N/A</b>	
<b>Location Code</b>	<b><u>Total Beta Activity Measurements</u></b>		<b><u>Removable Activity Measurements</u></b>			
	<b>Activity</b>	<b>MDC</b>	<b><u>Tritium</u></b>		<b><u>Carbon-14</u></b>	
			<b>Activity</b>	<b>MDC</b>	<b>Activity</b>	<b>MDC</b>
Summary for Survey Unit # 3VE2 (24 detail records)						
<b>Average</b>			18		13	
<b>Minimum</b>			6		7	
<b>Maximum</b>			28		23	
<b>Standard Deviation</b>			6		4	

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**Note: All activity results reported in dpm/100cm<sup>2</sup>**

## Building Systems Final Status Survey Results

Building BB	Survey Unit 4DR1				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
BB-4DR1-D3-M-001			11 ± 11	44	14 ± 9	26
BB-4DR1-D3-M-002			12 ± 11	44	11 ± 8	26
BB-4DR1-D3-M-003			24 ± 16	44	19 ± 11	26
BB-4DR1-D3-M-004			13 ± 12	44	14 ± 9	26
BB-4DR1-D3-M-005			30 ± 18	44	6 ± 6	26
BB-4DR1-D1-M-006			12 ± 11	44	17 ± 10	26
BB-4DR1-D1-M-007			10 ± 10	44	17 ± 10	26
BB-4DR1-D1-M-008			21 ± 15	44	12 ± 8	26
BB-4DR1-D1-M-009			28 ± 17	44	8 ± 7	26
BB-4DR1-D1-M-010			19 ± 14	44	16 ± 10	26
BB-4DR1-D1-M-011			15 ± 13	44	7 ± 6	26
BB-4DR1-D1-M-012			23 ± 16	44	6 ± 6	26
BB-4DR1-D1-M-013			26 ± 17	44	13 ± 9	26
BB-4DR1-D1-M-014			22 ± 15	44	13 ± 9	26
BB-4DR1-D1-M-015			14 ± 12	44	10 ± 8	26
BB-4DR1-D1-M-016			4 ± 7	44	17 ± 10	26
BB-4DR1-D1-M-017			14 ± 12	44	10 ± 8	26
BB-4DR1-D1-M-018			18 ± 14	44	5 ± 5	26
BB-4DR1-D1-M-019			17 ± 13	44	20 ± 11	26
Summary for Survey Unit # 4DR1 (19 detail records)						
<b>Average</b>			18		12	
<b>Minimum</b>			4		5	
<b>Maximum</b>			30		20	
<b>Standard Deviation</b>			7		5	

**Note:** All activity results reported in dpm/100cm<sup>2</sup>

## Building Systems Final Status Survey Results

Building BB	Survey Unit 4DR2				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
BB-4DR2-D3-M-001			21 ± 15	44	16 ± 10	26
BB-4DR2-D3-M-002			21 ± 15	44	19 ± 11	26
BB-4DR2-D1-M-003			40 ± 21	44	8 ± 7	26
BB-4DR2-D3-M-004			31 ± 18	44	11 ± 8	26
BB-4DR2-D3-M-005			16 ± 13	44	18 ± 10	26
BB-4DR2-D3-M-006			13 ± 12	44	10 ± 8	26
BB-4DR2-D1-M-007			21 ± 15	44	10 ± 8	26
BB-4DR2-D3-M-008			13 ± 12	44	20 ± 11	26
BB-4DR2-D3-M-009			8 ± 9	44	16 ± 10	26
BB-4DR2-D3-M-010			22 ± 15	44	14 ± 9	26
BB-4DR2-D3-M-011			13 ± 12	44	14 ± 9	26
BB-4DR2-D1-M-012			27 ± 17	44	9 ± 7	26
BB-4DR2-D1-M-013			17 ± 13	44	14 ± 9	26
BB-4DR2-D3-M-014			17 ± 13	44	15 ± 9	26
BB-4DR2-D3-M-015			17 ± 13	44	24 ± 12	26
BB-4DR2-D3-M-016			20 ± 15	44	10 ± 8	26
BB-4DR2-D1-M-017			8 ± 9	44	11 ± 8	26
BB-4DR2-D3-M-018			13 ± 12	44	13 ± 9	26
BB-4DR2-D3-M-019			15 ± 13	44	14 ± 9	26
BB-4DR2-D3-M-020			29 ± 18	44	16 ± 10	26
BB-4DR2-D3-M-021			10 ± 10	44	17 ± 10	26
BB-4DR2-D3-M-022			12 ± 11	44	9 ± 7	26
BB-4DR2-D3-M-023			14 ± 12	44	13 ± 9	26
BB-4DR2-D3-M-024			19 ± 14	44	8 ± 7	26
BB-4DR2-D3-M-025			15 ± 13	44	7 ± 6	26

**Note: All activity results reported in dpm/100cm<sup>2</sup>**



## Building Systems Final Status Survey Results

Building BB	Survey Unit 4VA1				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
BB-4VA1-V1-M-001			29 ± 18	44	15 ± 9	26
BB-4VA1-V1-M-002			11 ± 11	44	10 ± 8	26
BB-4VA1-V1-M-003			14 ± 12	44	11 ± 8	26
BB-4VA1-V1-M-004			20 ± 15	44	12 ± 8	26
BB-4VA1-V1-M-005			13 ± 12	44	12 ± 8	26
BB-4VA1-V1-M-006			5 ± 7	44	17 ± 10	26
BB-4VA1-V1-M-007			12 ± 11	44	5 ± 5	26
BB-4VA1-V1-M-008			16 ± 13	44	18 ± 10	26
BB-4VA1-V1-M-009			26 ± 17	44	3 ± 4	26
BB-4VA1-V1-M-010			15 ± 13	44	12 ± 8	26
BB-4VA1-V1-M-011			17 ± 13	44	12 ± 8	26
BB-4VA1-V1-M-012			30 ± 18	44	8 ± 7	26
BB-4VA1-V1-M-013			23 ± 16	44	13 ± 9	26
BB-4VA1-V1-M-014			9 ± 10	44	11 ± 8	26
BB-4VA1-V1-M-015			13 ± 12	44	14 ± 9	26
BB-4VA1-V1-M-016			11 ± 11	44	7 ± 6	26
BB-4VA1-V1-M-017			19 ± 14	44	9 ± 7	26
BB-4VA1-V1-M-018			24 ± 16	44	9 ± 7	26
BB-4VA1-V1-M-019			15 ± 13	44	11 ± 8	26
BB-4VA1-V1-M-020			31 ± 18	44	3 ± 4	26
BB-4VA1-V1-M-021			9 ± 10	44	9 ± 7	26
BB-4VA1-V1-M-022			19 ± 14	44	11 ± 8	26
BB-4VA1-V1-M-023			14 ± 12	44	19 ± 11	26
BB-4VA1-V1-M-024			8 ± 9	44	10 ± 8	26
BB-4VA1-V1-M-025			14 ± 12	44	17 ± 10	26

**Note: All activity results reported in dpm/100cm<sup>2</sup>**



## Building Systems Final Status Survey Results

Building BB	Survey Unit 4VA1				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
BB-4VA1-V1-M-026			21 ± 15	44	7 ± 6	26
BB-4VA1-V1-M-027			18 ± 14	44	9 ± 7	26
BB-4VA1-V1-M-028			24 ± 16	44	8 ± 7	26
BB-4VA1-V1-M-029			27 ± 17	44	16 ± 10	26
BB-4VA1-V1-M-030			22 ± 15	44	18 ± 10	26
BB-4VA1-V1-M-031			12 ± 11	44	16 ± 10	26
BB-4VA1-V1-M-032			22 ± 15	44	12 ± 8	26
BB-4VA1-V1-M-033			7 ± 9	44	10 ± 8	26
BB-4VA1-V1-M-034			15 ± 13	44	4 ± 5	26
BB-4VA1-V1-M-035			1 ± 3	44	21 ± 11	26
BB-4VA1-V1-M-036			6 ± 8	44	15 ± 9	26
BB-4VA1-V1-M-037			20 ± 15	44	12 ± 8	26
BB-4VA1-V1-M-038			18 ± 14	44	12 ± 8	26
BB-4VA1-V1-M-039			6 ± 8	44	18 ± 10	26
BB-4VA1-V1-M-040			6 ± 8	44	16 ± 10	26
BB-4VA1-V1-M-041			7 ± 9	44	9 ± 7	26
BB-4VA1-V1-M-042			16 ± 13	44	13 ± 9	26
BB-4VA1-V1-M-043			8 ± 9	44	15 ± 9	26
BB-4VA1-V1-M-044			5 ± 7	44	15 ± 9	26
BB-4VA1-V1-M-045			13 ± 12	44	7 ± 6	26
BB-4VA1-V1-M-046			4 ± 7	44	17 ± 10	26
BB-4VA1-V1-M-047			12 ± 11	44	9 ± 7	26
BB-4VA1-V1-M-048			19 ± 14	44	13 ± 9	26
BB-4VA1-V1-M-049			13 ± 12	44	12 ± 8	26
BB-4VA1-V1-M-050			25 ± 16	44	6 ± 6	26

**Note: All activity results reported in dpm/100cm<sup>2</sup>**

## Building Systems Final Status Survey Results

Building BB	Survey Unit 4VA1				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
BB-4VA1-V1-M-051			22 ± 15	44	12 ± 8	26
BB-4VA1-V1-M-052			9 ± 10	44	18 ± 10	26
Summary for Survey Unit # 4VA1 (52 detail records)						
Average			15		12	
Minimum			1		3	
Maximum			31		21	
Standard Deviation			7		4	

**Note: All activity results reported in dpm/100cm<sup>2</sup>**

## Building Systems Final Status Survey Results

Building BB	Survey Unit 4VA2				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
BB-4VA2-V1-M-001			10 ± 10	44	11 ± 8	26
BB-4VA2-V1-M-002			18 ± 14	44	6 ± 6	26
BB-4VA2-V1-M-003			9 ± 10	44	14 ± 9	26
BB-4VA2-V1-M-004			4 ± 7	44	15 ± 9	26
BB-4VA2-V1-M-005			14 ± 12	44	9 ± 7	26
BB-4VA2-V1-M-006			21 ± 15	44	16 ± 10	26
BB-4VA2-V1-M-007			11 ± 11	44	19 ± 11	26
BB-4VA2-V1-M-008			15 ± 13	44	8 ± 7	26
BB-4VA2-V1-M-009			12 ± 11	44	19 ± 11	26
BB-4VA2-V1-M-010			13 ± 12	44	12 ± 8	26
BB-4VA2-V1-M-011			25 ± 16	44	5 ± 5	26
BB-4VA2-V1-M-012			28 ± 17	44	12 ± 8	26
BB-4VA2-V1-M-013			20 ± 15	44	12 ± 8	26
BB-4VA2-V1-M-014			21 ± 15	44	9 ± 7	26
BB-4VA2-V1-M-015			13 ± 12	44	8 ± 7	26
BB-4VA2-V1-M-016			3 ± 6	44	21 ± 11	26
BB-4VA2-V1-M-017			17 ± 13	44	11 ± 8	26
BB-4VA2-V1-M-018			13 ± 12	44	19 ± 11	26
BB-4VA2-V1-M-019			10 ± 10	44	25 ± 12	26
BB-4VA2-V1-M-020			22 ± 15	44	11 ± 8	26
BB-4VA2-V1-M-021			9 ± 10	44	14 ± 9	26
BB-4VA2-V1-M-022			8 ± 9	44	8 ± 7	26
BB-4VA2-V1-M-023			16 ± 13	44	20 ± 11	26
BB-4VA2-V1-M-024			24 ± 16	44	18 ± 10	26
BB-4VA2-V1-M-025			9 ± 10	44	17 ± 10	26

**Note:** All activity results reported in dpm/100cm<sup>2</sup>

## Building Systems Final Status Survey Results

Building BB	Survey Unit 4VA2				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
BB-4VA2-V1-M-026			1 ± 3	44	14 ± 9	26
BB-4VA2-V1-M-027			9 ± 10	44	16 ± 10	26
BB-4VA2-V1-M-028			17 ± 13	44	11 ± 8	26
BB-4VA2-V1-M-029			5 ± 7	44	10 ± 8	26
BB-4VA2-V1-M-030			19 ± 14	44	7 ± 6	26
BB-4VA2-V1-M-031			7 ± 9	44	20 ± 11	26
BB-4VA2-V1-M-032			18 ± 14	44	13 ± 9	26
BB-4VA2-V1-M-033			5 ± 7	44	18 ± 10	26
BB-4VA2-V1-M-034			27 ± 17	44	17 ± 10	26
BB-4VA2-V1-M-035			23 ± 16	44	12 ± 8	26
BB-4VA2-V1-M-036			26 ± 17	44	14 ± 9	26
BB-4VA2-V1-M-037			9 ± 10	44	7 ± 6	26
BB-4VA2-V1-M-038			14 ± 12	44	17 ± 10	26
BB-4VA2-V1-M-039			17 ± 13	44	14 ± 9	26
BB-4VA2-V1-M-040			14 ± 12	44	9 ± 7	26
BB-4VA2-V1-M-041			17 ± 13	44	14 ± 9	26
BB-4VA2-V1-M-042			20 ± 15	44	14 ± 9	26
BB-4VA2-V1-M-043			20 ± 15	44	10 ± 8	26
BB-4VA2-V1-M-044			17 ± 13	44	10 ± 8	26
BB-4VA2-V1-M-045			28 ± 17	44	16 ± 10	26
BB-4VA2-V1-M-046			11 ± 11	44	13 ± 9	26
BB-4VA2-V1-M-047			4 ± 7	44	10 ± 8	26
BB-4VA2-V1-M-048			26 ± 17	44	13 ± 9	26
BB-4VA2-V1-M-049			20 ± 15	44	11 ± 8	26
BB-4VA2-V1-M-050			14 ± 12	44	11 ± 8	26

**Note: All activity results reported in dpm/100cm<sup>2</sup>**

## Building Systems Final Status Survey Results

Building BB	Survey Unit 4VA2				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
BB-4VA2-V1-M-051			12 ± 11	44	11 ± 8	26
BB-4VA2-V1-M-052			17 ± 13	44	15 ± 9	26
BB-4VA2-V1-M-053			20 ± 15	44	20 ± 11	26
BB-4VA2-V1-M-054			7 ± 9	44	16 ± 10	26
BB-4VA2-V1-M-055			273 ± 54	44	15 ± 9	26
BB-4VA2-V1-M-056			17 ± 13	44	15 ± 9	26
BB-4VA2-V1-M-057			17 ± 13	44	13 ± 9	26
BB-4VA2-V1-M-058			27 ± 17	44	9 ± 7	26
BB-4VA2-V1-M-059			19 ± 14	44	7 ± 6	26
BB-4VA2-V1-M-060			10 ± 10	44	9 ± 7	26
BB-4VA2-V1-M-061			7 ± 9	44	10 ± 8	26
BB-4VA2-V1-M-062			13 ± 12	44	7 ± 6	26
BB-4VA2-V1-M-063			31 ± 18	44	3 ± 4	26
BB-4VA2-V1-M-064			16 ± 13	44	13 ± 9	26
BB-4VA2-V1-M-065			12 ± 11	44	18 ± 10	26
BB-4VA2-V1-M-066			6 ± 8	44	20 ± 11	26
BB-4VA2-V1-M-067			4 ± 7	44	17 ± 10	26
<hr/> Summary for Survey Unit # 4VA2 (67 detail records)						
<b>Average</b>			19		13	
<b>Minimum</b>			1		3	
<b>Maximum</b>			273		25	
<b>Standard Deviation</b>			32		4	

**Note: All activity results reported in dpm/100cm<sup>2</sup>**

## Building Systems Final Status Survey Results

Building BB	Survey Unit 4VE1				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
BB-4VE1-E2-M-001			22 ± 15	44	14 ± 9	26
BB-4VE1-E1-M-002			23 ± 16	44	13 ± 9	26
BB-4VE1-E2-M-003			13 ± 12	44	11 ± 8	26
BB-4VE1-E2-M-004			29 ± 18	44	5 ± 5	26
BB-4VE1-E2-M-005			8 ± 9	44	10 ± 8	26
BB-4VE1-E2-M-006			13 ± 12	44	18 ± 10	26
BB-4VE1-E2-M-007			8 ± 9	44	16 ± 10	26
BB-4VE1-E2-M-008			22 ± 15	44	18 ± 10	26
BB-4VE1-E2-M-009			8 ± 9	44	16 ± 10	26
BB-4VE1-E2-M-010			6 ± 8	44	17 ± 10	26
BB-4VE1-E2-M-011			20 ± 15	44	14 ± 9	26
BB-4VE1-E2-M-012			6 ± 8	44	18 ± 10	26
BB-4VE1-E2-M-013			22 ± 15	44	19 ± 11	26
BB-4VE1-E2-M-014			12 ± 11	44	11 ± 8	26
BB-4VE1-E2-M-015			19 ± 14	44	16 ± 10	26
BB-4VE1-E2-M-016			14 ± 12	44	12 ± 8	26
BB-4VE1-E2-M-017			20 ± 15	44	13 ± 9	26
BB-4VE1-E2-M-018			17 ± 13	44	16 ± 10	26
Summary for Survey Unit # 4VE1 (18 detail records)						
Average			16		14	
Minimum			6		5	
Maximum			29		19	
Standard Deviation			7		4	

**Note: All activity results reported in dpm/100cm<sup>2</sup>**

## Building Systems Final Status Survey Results

Building BB	Survey Unit 4VE2				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
BB-4VE2-E2-M-001			26 ± 17	44	8 ± 7	26
BB-4VE2-E1-M-002			8 ± 9	44	18 ± 10	26
BB-4VE2-E2-M-003			12 ± 11	44	19 ± 11	26
BB-4VE2-E1-M-004			27 ± 17	44	17 ± 10	26
BB-4VE2-E2-M-005			17 ± 13	44	9 ± 7	26
BB-4VE2-E1-M-006			30 ± 18	44	11 ± 8	26
BB-4VE2-E1-M-007			19 ± 14	44	8 ± 7	26
BB-4VE2-E2-M-008			21 ± 15	44	7 ± 6	26
BB-4VE2-E2-M-009			14 ± 12	44	15 ± 9	26
BB-4VE2-E1-M-010			14 ± 12	44	11 ± 8	26
BB-4VE2-E1-M-011			29 ± 18	44	15 ± 9	26
BB-4VE2-E2-M-012			34 ± 19	44	25 ± 12	26
BB-4VE2-E2-M-013			7 ± 9	44	13 ± 9	26
BB-4VE2-E2-M-014			8 ± 9	44	18 ± 10	26
BB-4VE2-E1-M-015			8 ± 9	44	16 ± 10	26
BB-4VE2-E2-M-016			3 ± 6	44	16 ± 10	26
BB-4VE2-E2-M-017			25 ± 16	44	17 ± 10	26
BB-4VE2-E2-M-018			14 ± 12	44	10 ± 8	26
BB-4VE2-E2-M-019			12 ± 11	44	21 ± 11	26
BB-4VE2-E1-M-020			19 ± 14	44	19 ± 11	26
BB-4VE2-E2-M-021			4 ± 7	44	16 ± 10	26
BB-4VE2-E2-M-022			11 ± 11	44	14 ± 9	26
BB-4VE2-E2-M-023			20 ± 15	44	9 ± 7	26
BB-4VE2-E2-M-024			9 ± 10	44	5 ± 5	26
BB-4VE2-E2-M-025			12 ± 11	44	11 ± 8	26

Note: All activity results reported in dpm/100cm<sup>2</sup>





## Building Systems Final Status Survey Results

Building BB	Survey Unit 5DR1				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
BB-5DR1-D3-M-001			24 ± 16	44	17 ± 10	26
BB-5DR1-D3-M-002			22 ± 15	44	13 ± 9	26
BB-5DR1-D3-M-003			12 ± 11	44	9 ± 7	26
BB-5DR1-D3-M-004			15 ± 13	44	15 ± 9	26
BB-5DR1-D3-M-005			20 ± 15	44	10 ± 8	26
BB-5DR1-D3-M-006			27 ± 17	44	11 ± 8	26
BB-5DR1-D3-M-007			17 ± 13	44	16 ± 10	26
BB-5DR1-D3-M-008			11 ± 11	44	4 ± 5	26
BB-5DR1-D3-M-009			31 ± 18	44	11 ± 8	26
BB-5DR1-D3-M-010			8 ± 9	44	8 ± 7	26
BB-5DR1-D3-M-011			23 ± 16	44	16 ± 10	26
BB-5DR1-D3-M-012			15 ± 13	44	13 ± 9	26
BB-5DR1-D3-M-013			14 ± 12	44	13 ± 9	26
BB-5DR1-D3-M-014			17 ± 13	44	9 ± 7	26
BB-5DR1-D3-M-015			7 ± 9	44	13 ± 9	26
BB-5DR1-D3-M-016			7 ± 9	44	16 ± 10	26
BB-5DR1-D3-M-017			16 ± 13	44	10 ± 8	26
BB-5DR1-D1-M-018			10 ± 10	44	9 ± 7	26
BB-5DR1-D3-M-019			13 ± 12	44	15 ± 9	26
BB-5DR1-D3-M-020			17 ± 13	44	9 ± 7	26
BB-5DR1-D3-M-021			17 ± 13	44	8 ± 7	26
BB-5DR1-D2-M-022			17 ± 13	44	14 ± 9	26
BB-5DR1-D3-M-023			11 ± 11	44	16 ± 10	26

Note: All activity results reported in dpm/100cm<sup>2</sup>



## Building Systems Final Status Survey Results

Building BB	Survey Unit 5DR2				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
BB-5DR2-D1-M-001			19 ± 14	44	10 ± 8	26
BB-5DR2-D3-M-002			24 ± 16	44	9 ± 7	26
BB-5DR2-D3-M-003			25 ± 16	44	8 ± 7	26
BB-5DR2-D3-M-004			17 ± 13	44	8 ± 7	26
BB-5DR2-D3-M-005			23 ± 16	44	7 ± 6	26
BB-5DR2-D3-M-006			11 ± 11	44	8 ± 7	26
BB-5DR2-D3-M-007			39 ± 20	44	16 ± 10	26
BB-5DR2-D3-M-008			7 ± 9	44	13 ± 9	26
BB-5DR2-D3-M-009			42 ± 21	44	11 ± 8	26
BB-5DR2-D3-M-010			26 ± 17	44	18 ± 10	26
BB-5DR2-D1-M-011			25 ± 16	44	10 ± 8	26
BB-5DR2-D3-M-012			14 ± 12	44	11 ± 8	26
BB-5DR2-D3-M-013			10 ± 10	44	11 ± 8	26
BB-5DR2-D1-M-014			7 ± 9	44	13 ± 9	26
BB-5DR2-D3-M-015			17 ± 13	44	18 ± 10	26
BB-5DR2-D1-M-016			12 ± 11	44	17 ± 10	26
BB-5DR2-D3-M-017			19 ± 14	44	9 ± 7	26
BB-5DR2-D1-M-018			22 ± 15	44	7 ± 6	26
BB-5DR2-D3-M-019			16 ± 13	44	14 ± 9	26
BB-5DR2-D3-M-020			11 ± 11	44	14 ± 9	26
BB-5DR2-D3-M-021			19 ± 14	44	9 ± 7	26
BB-5DR2-D3-M-022			19 ± 14	44	10 ± 8	26
BB-5DR2-D2-M-023			16 ± 13	44	12 ± 8	26
BB-5DR2-D3-M-024			17 ± 13	44	15 ± 9	26
BB-5DR2-D2-M-025			20 ± 15	44	13 ± 9	26

Note: All activity results reported in dpm/100cm<sup>2</sup>

## Building Systems Final Status Survey Results

Building BB	Survey Unit 5DR2				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
BB-5DR2-D2-M-026			23 ± 16	44	9 ± 7	26
BB-5DR2-D2-M-027			12 ± 11	44	11 ± 8	26
BB-5DR2-D3-M-028			26 ± 17	44	13 ± 9	26
BB-5DR2-D2-M-029			5 ± 7	44	11 ± 8	26
BB-5DR2-D2-M-030			20 ± 15	44	11 ± 8	26
BB-5DR2-D2-M-031			16 ± 13	44	12 ± 8	26
BB-5DR2-D3-M-032			14 ± 12	44	9 ± 7	26
BB-5DR2-D2-M-033			11 ± 11	44	7 ± 6	26
BB-5DR2-D2-M-034			20 ± 15	44	4 ± 5	26
BB-5DR2-D2-M-035			17 ± 13	44	14 ± 9	26
BB-5DR2-D3-M-036			14 ± 12	44	12 ± 8	26
BB-5DR2-D2-M-037			15 ± 13	44	14 ± 9	26
BB-5DR2-D3-M-038			17 ± 13	44	7 ± 6	26
BB-5DR2-D3-M-039			18 ± 14	44	12 ± 8	26
BB-5DR2-D2-M-040			9 ± 10	44	13 ± 9	26
BB-5DR2-D2-M-041			15 ± 13	44	17 ± 10	26
Summary for Survey Unit # 5DR2 (41 detail records)						
<b>Average</b>			18		11	
<b>Minimum</b>			5		4	
<b>Maximum</b>			42		18	
<b>Standard Deviation</b>			7		3	

**Note: All activity results reported in dpm/100cm<sup>2</sup>**

## Building Systems Final Status Survey Results

Building BB	Survey Unit 5VA1				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
BB-5VA1-V1-M-001			10 ± 10	44	8 ± 7	26
BB-5VA1-V1-M-002			9 ± 10	44	14 ± 9	26
BB-5VA1-V1-M-003			17 ± 13	44	13 ± 9	26
BB-5VA1-V1-M-004			15 ± 13	44	15 ± 9	26
BB-5VA1-V1-M-005			22 ± 15	44	13 ± 9	26
BB-5VA1-V1-M-006			3 ± 6	44	15 ± 9	26
BB-5VA1-V1-M-007			11 ± 11	44	24 ± 12	26
BB-5VA1-V1-M-008			29 ± 18	44	16 ± 10	26
BB-5VA1-V1-M-009			18 ± 14	44	21 ± 11	26
BB-5VA1-V1-M-010			8 ± 9	44	12 ± 8	26
BB-5VA1-V1-M-011			22 ± 15	44	18 ± 10	26
BB-5VA1-V1-M-012			2 ± 5	44	18 ± 10	26
BB-5VA1-V1-M-013			14 ± 12	44	14 ± 9	26
BB-5VA1-V1-M-014			17 ± 13	44	20 ± 11	26
BB-5VA1-V1-M-015			30 ± 18	44	14 ± 9	26
BB-5VA1-V1-M-016			8 ± 9	44	17 ± 10	26
BB-5VA1-V1-M-017			11 ± 11	44	16 ± 10	26
BB-5VA1-V1-M-018			26 ± 17	44	16 ± 10	26
BB-5VA1-V1-M-019			15 ± 13	44	11 ± 8	26
BB-5VA1-V1-M-020			28 ± 17	44	8 ± 7	26
BB-5VA1-V1-M-021			11 ± 11	44	12 ± 8	26
BB-5VA1-V1-M-022			29 ± 18	44	11 ± 8	26
BB-5VA1-V1-M-023			6 ± 8	44	14 ± 9	26
BB-5VA1-V1-M-024			24 ± 16	44	13 ± 9	26
BB-5VA1-V1-M-025			22 ± 15	44	13 ± 9	26

**Note: All activity results reported in dpm/100cm<sup>2</sup>**

## Building Systems Final Status Survey Results

Building BB	Survey Unit 5VA1				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
BB-5VA1-V1-M-026			20 ± 15	44	17 ± 10	26
BB-5VA1-V1-M-027			25 ± 16	44	12 ± 8	26
BB-5VA1-V1-M-028			12 ± 11	44	15 ± 9	26
BB-5VA1-V1-M-029			12 ± 11	44	11 ± 8	26
BB-5VA1-V1-M-030			29 ± 18	44	9 ± 7	26
BB-5VA1-V1-M-031			20 ± 15	44	12 ± 8	26
BB-5VA1-V1-M-032			8 ± 9	44	8 ± 7	26
BB-5VA1-V1-M-033			18 ± 14	44	15 ± 9	26
BB-5VA1-V1-M-034			21 ± 15	44	18 ± 10	26
BB-5VA1-V1-M-035			16 ± 13	44	3 ± 4	26
BB-5VA1-V1-M-036			20 ± 15	44	8 ± 7	26
BB-5VA1-V1-M-037			33 ± 19	44	10 ± 8	26
BB-5VA1-V1-M-038			14 ± 12	44	15 ± 9	26
BB-5VA1-V1-M-039			14 ± 12	44	9 ± 7	26
BB-5VA1-V1-M-040			17 ± 13	44	4 ± 5	26
BB-5VA1-V1-M-041			4 ± 7	44	16 ± 10	26
BB-5VA1-V1-M-042			15 ± 13	44	23 ± 12	26
BB-5VA1-V1-M-043			11 ± 11	44	16 ± 10	26
BB-5VA1-V1-M-044			0 ± 0	44	16 ± 10	26
BB-5VA1-V1-M-045			17 ± 13	44	10 ± 8	26
BB-5VA1-V1-M-046			25 ± 16	44	16 ± 10	26
BB-5VA1-V1-M-047			11 ± 11	44	21 ± 11	26
BB-5VA1-V1-M-048			14 ± 12	44	9 ± 7	26
BB-5VA1-V1-M-049			22 ± 15	44	11 ± 8	26
BB-5VA1-V1-M-050			22 ± 15	44	15 ± 9	26

**Note: All activity results reported in dpm/100cm<sup>2</sup>**

## Building Systems Final Status Survey Results

Building BB	Survey Unit 5VA1				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
BB-5VA1-V1-M-051			14 ± 12	44	15 ± 9	26
BB-5VA1-V1-M-052			22 ± 15	44	14 ± 9	26
BB-5VA1-V1-M-053			23 ± 16	44	18 ± 10	26
BB-5VA1-V1-M-054			22 ± 15	44	13 ± 9	26
BB-5VA1-V1-M-055			13 ± 12	44	11 ± 8	26
BB-5VA1-V1-M-056			9 ± 10	44	15 ± 9	26
BB-5VA1-V1-M-057			19 ± 14	44	13 ± 9	26
BB-5VA1-V1-M-058			25 ± 16	44	13 ± 9	26
BB-5VA1-V1-M-059			19 ± 14	44	7 ± 6	26
BB-5VA1-V1-M-060			12 ± 11	44	19 ± 11	26
BB-5VA1-V1-M-061			28 ± 17	44	19 ± 11	26
BB-5VA1-V1-M-062			21 ± 15	44	10 ± 8	26
BB-5VA1-V1-M-063			17 ± 13	44	18 ± 10	26
BB-5VA1-V1-M-064			20 ± 15	44	10 ± 8	26
BB-5VA1-V1-M-065			13 ± 12	44	7 ± 6	26
BB-5VA1-V1-M-066			8 ± 9	44	16 ± 10	26
BB-5VA1-V1-M-067			8 ± 9	44	16 ± 10	26
BB-5VA1-V1-M-068			28 ± 17	44	5 ± 5	26
BB-5VA1-V1-M-069			25 ± 16	44	10 ± 8	26
BB-5VA1-V1-M-070			20 ± 15	44	7 ± 6	26
BB-5VA1-V1-M-071			15 ± 13	44	4 ± 5	26
BB-5VA1-V1-M-072			13 ± 12	44	14 ± 9	26
BB-5VA1-V1-M-073			22 ± 15	44	19 ± 11	26
BB-5VA1-V1-M-074			4 ± 7	44	16 ± 10	26

**Note: All activity results reported in dpm/100cm<sup>2</sup>**

## Building Systems Final Status Survey Results

Building <b>BB</b>	Survey Unit <b>5VA1</b>				Class: <b>N/A</b>	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
Summary for Survey Unit # 5VA1 (74 detail records)						
<b>Average</b>			17		13	
<b>Minimum</b>			0		3	
<b>Maximum</b>			33		24	
<b>Standard Deviation</b>			7		4	

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**Note: All activity results reported in dpm/100cm<sup>2</sup>**





## Building Systems Final Status Survey Results

Building BB	Survey Unit 5VA2				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
BB-5VA2-V1-M-026			14 ± 12	44	12 ± 8	26
BB-5VA2-V1-M-027			28 ± 17	44	10 ± 8	26
BB-5VA2-V1-M-028			15 ± 13	44	15 ± 9	26
BB-5VA2-V1-M-029			21 ± 15	44	15 ± 9	26
BB-5VA2-V1-M-030			18 ± 14	44	20 ± 11	26
BB-5VA2-V1-M-031			23 ± 16	44	9 ± 7	26
BB-5VA2-V1-M-032			25 ± 16	44	18 ± 10	26
BB-5VA2-V1-M-033			11 ± 11	44	12 ± 8	26
BB-5VA2-V1-M-034			19 ± 14	44	9 ± 7	26
BB-5VA2-V1-M-035			13 ± 12	44	13 ± 9	26
BB-5VA2-V1-M-036			14 ± 12	44	13 ± 9	26
BB-5VA2-V1-M-037			17 ± 13	44	9 ± 7	26
BB-5VA2-V1-M-038			17 ± 13	44	23 ± 12	26
BB-5VA2-V1-M-039			11 ± 11	44	12 ± 8	26
BB-5VA2-V1-M-040			14 ± 12	44	15 ± 9	26
BB-5VA2-V1-M-041			12 ± 11	44	15 ± 9	26
BB-5VA2-V1-M-042			22 ± 15	44	6 ± 6	26
BB-5VA2-V1-M-043			12 ± 11	44	11 ± 8	26
BB-5VA2-V1-M-044			9 ± 10	44	16 ± 10	26
BB-5VA2-V1-M-045			15 ± 13	44	11 ± 8	26
BB-5VA2-V1-M-046			20 ± 15	44	13 ± 9	26
BB-5VA2-V1-M-047			11 ± 11	44	15 ± 9	26
BB-5VA2-V1-M-048			8 ± 9	44	18 ± 10	26
BB-5VA2-V1-M-049			14 ± 12	44	15 ± 9	26
BB-5VA2-V1-M-050			22 ± 15	44	5 ± 5	26

**Note: All activity results reported in dpm/100cm<sup>2</sup>**

## Building Systems Final Status Survey Results

Building BB	Survey Unit 5VA2				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
BB-5VA2-V1-M-051			18 ± 14	44	16 ± 10	26
BB-5VA2-V1-M-052			27 ± 17	44	17 ± 10	26
BB-5VA2-V1-M-053			23 ± 16	44	9 ± 7	26
BB-5VA2-V1-M-054			17 ± 13	44	24 ± 12	26
BB-5VA2-V1-M-055			17 ± 13	44	17 ± 10	26
BB-5VA2-V1-M-056			32 ± 18	44	12 ± 8	26
BB-5VA2-V1-M-057			20 ± 15	44	10 ± 8	26
BB-5VA2-V1-M-058			14 ± 12	44	11 ± 8	26
BB-5VA2-V1-M-059			32 ± 18	44	10 ± 8	26
BB-5VA2-V1-M-060			6 ± 8	44	14 ± 9	26
BB-5VA2-V1-M-061			36 ± 20	44	9 ± 7	26
BB-5VA2-V1-M-062			14 ± 12	44	14 ± 9	26
BB-5VA2-V1-M-063			7 ± 9	44	19 ± 11	26
BB-5VA2-V1-M-064			13 ± 12	44	14 ± 9	26
BB-5VA2-V1-M-065			22 ± 15	44	9 ± 7	26
BB-5VA2-V1-M-066			30 ± 18	44	15 ± 9	26
BB-5VA2-V1-M-067			6 ± 8	44	10 ± 8	26
BB-5VA2-V1-M-068			20 ± 15	44	12 ± 8	26
BB-5VA2-V1-M-069			13 ± 12	44	15 ± 9	26
BB-5VA2-V1-M-070			29 ± 18	44	16 ± 10	26
BB-5VA2-V1-M-071			18 ± 14	44	14 ± 9	26
Summary for Survey Unit # 5VA2 (71 detail records)						
<b>Average</b>			17		13	
<b>Minimum</b>			2		5	
<b>Maximum</b>			39		24	
<b>Standard Deviation</b>			8		4	

**Note: All activity results reported in dpm/100cm<sup>2</sup>**

## Building Systems Final Status Survey Results

Building BB	Survey Unit 5VE1				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
BB-5VE1-E2-M-001			15 ± 13	44	13 ± 9	26
BB-5VE1-E2-M-002			13 ± 12	44	14 ± 9	26
BB-5VE1-E2-M-003			23 ± 16	44	14 ± 9	26
BB-5VE1-E2-M-004			4 ± 7	44	15 ± 9	26
BB-5VE1-E2-M-005			4 ± 7	44	10 ± 8	26
BB-5VE1-E2-M-006			11 ± 11	44	13 ± 9	26
BB-5VE1-E2-M-007			16 ± 13	44	10 ± 8	26
BB-5VE1-E2-M-008			18 ± 14	44	12 ± 8	26
BB-5VE1-E2-M-009			10 ± 10	44	18 ± 10	26
BB-5VE1-E1-M-010			29 ± 18	44	9 ± 7	26
BB-5VE1-E2-M-011			20 ± 15	44	18 ± 10	26
BB-5VE1-E2-M-012			12 ± 11	44	9 ± 7	26
BB-5VE1-E2-M-013			20 ± 15	44	10 ± 8	26
BB-5VE1-E2-M-014			13 ± 12	44	10 ± 8	26
BB-5VE1-E2-M-015			14 ± 12	44	17 ± 10	26
BB-5VE1-E2-M-016			23 ± 16	44	16 ± 10	26
Summary for Survey Unit # 5VE1 (16 detail records)						
<b>Average</b>			15		13	
<b>Minimum</b>			4		9	
<b>Maximum</b>			29		18	
<b>Standard Deviation</b>			7		3	

**Note: All activity results reported in dpm/100cm<sup>2</sup>**

## Building Systems Final Status Survey Results

Building BB	Survey Unit 5VE2				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
BB-5VE2-E2-M-001			27 ± 17	44	16 ± 10	26
BB-5VE2-E2-M-002			22 ± 15	44	13 ± 9	26
BB-5VE2-E1-M-003			11 ± 11	44	16 ± 10	26
BB-5VE2-E2-M-004			26 ± 17	44	15 ± 9	26
BB-5VE2-E2-M-005			11 ± 11	44	14 ± 9	26
BB-5VE2-E2-M-006			12 ± 11	44	9 ± 7	26
BB-5VE2-E2-M-007			10 ± 10	44	11 ± 8	26
BB-5VE2-E2-M-008			17 ± 13	44	11 ± 8	26
BB-5VE2-E2-M-009			11 ± 11	44	15 ± 9	26
BB-5VE2-E1-M-010			15 ± 13	44	8 ± 7	26
BB-5VE2-E2-M-011			13 ± 12	44	22 ± 11	26
BB-5VE2-E2-M-012			16 ± 13	44	18 ± 10	26
BB-5VE2-E2-M-013			14 ± 12	44	13 ± 9	26
BB-5VE2-E2-M-014			11 ± 11	44	14 ± 9	26
BB-5VE2-E1-M-015			15 ± 13	44	9 ± 7	26
BB-5VE2-E1-M-016			24 ± 16	44	22 ± 11	26
BB-5VE2-E2-M-017			15 ± 13	44	17 ± 10	26
BB-5VE2-E1-M-018			23 ± 16	44	7 ± 6	26
BB-5VE2-E1-M-019			14 ± 12	44	11 ± 8	26
BB-5VE2-E1-M-020			15 ± 13	44	13 ± 9	26
BB-5VE2-E1-M-021			13 ± 12	44	12 ± 8	26
BB-5VE2-E2-M-022			12 ± 11	44	15 ± 9	26
BB-5VE2-E1-M-023			12 ± 11	44	9 ± 7	26
BB-5VE2-E2-M-024			20 ± 15	44	21 ± 11	26
BB-5VE2-E1-M-025			7 ± 9	44	13 ± 9	26

**Note: All activity results reported in dpm/100cm<sup>2</sup>**





## Building Systems Final Status Survey Results

Building BB	Survey Unit PDR2				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
BB-PDR2-D2-M-001			17 ± 14	44	16 ± 10	26
BB-PDR2-D2-M-002			12 ± 11	44	14 ± 9	26
Summary for Survey Unit # PDR2 (2 detail records)						
<b>Average</b>			15		15	
<b>Minimum</b>			12		14	
<b>Maximum</b>			17		16	
<b>Standard Deviation</b>			4		2	

**Note: All activity results reported in dpm/100cm<sup>2</sup>**



## Building Systems Final Status Survey Results

Building BB	Survey Unit PVE1				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
BB-PVE1-E1-M-001			25 ± 16	44	18 ± 10	26
BB-PVE1-E1-M-002			22 ± 15	44	12 ± 9	26
BB-PVE1-E1-M-003			9 ± 10	44	18 ± 10	26
BB-PVE1-E1-M-004			18 ± 14	44	8 ± 7	26
BB-PVE1-E1-M-005			23 ± 16	44	16 ± 10	26
BB-PVE1-E1-M-006			5 ± 7	44	20 ± 11	26
BB-PVE1-E1-M-007			28 ± 17	44	9 ± 8	26
BB-PVE1-E1-M-008			16 ± 13	44	11 ± 8	26
BB-PVE1-E1-M-009			19 ± 14	44	22 ± 12	26
BB-PVE1-E1-M-010			6 ± 8	44	11 ± 8	26
BB-PVE1-E1-M-011			15 ± 13	44	13 ± 9	26
BB-PVE1-E1-M-012			16 ± 13	44	16 ± 10	26
BB-PVE1-E1-M-013			8 ± 9	44	21 ± 11	26
BB-PVE1-E1-M-014			22 ± 15	44	11 ± 8	26
BB-PVE1-E1-M-015			27 ± 17	44	19 ± 11	26
BB-PVE1-E1-M-016			10 ± 10	44	21 ± 11	26
BB-PVE1-E1-M-017			34 ± 19	44	10 ± 8	26
BB-PVE1-E1-M-018			21 ± 15	44	9 ± 7	26
BB-PVE1-E1-M-019			1 ± 3	44	22 ± 11	26
BB-PVE1-E1-M-020			21 ± 15	44	16 ± 10	26
BB-PVE1-E3-M-021			32 ± 18	44	10 ± 8	26
BB-PVE1-E3-M-022			18 ± 14	44	11 ± 8	26
BB-PVE1-E3-M-023			18 ± 14	44	11 ± 8	26
BB-PVE1-E3-M-024			12 ± 11	44	13 ± 9	26
BB-PVE1-E3-M-025			4 ± 6	44	19 ± 11	26

**Note: All activity results reported in dpm/100cm<sup>2</sup>**

## Building Systems Final Status Survey Results

Building BB	Survey Unit PVE1				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
BB-PVE1-E3-M-026			23 ± 16	44	14 ± 9	26
Summary for Survey Unit # PVE1 (26 detail records)						
Average			17		15	
Minimum			1		8	
Maximum			34		22	
Standard Deviation			9		5	

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**Note: All activity results reported in dpm/100cm<sup>2</sup>**

## Building Systems Final Status Survey Results

Building BB	Survey Unit PVE2			Class: N/A			
Location Code	<u>Total Beta Activity Measurements</u>			<u>Removable Activity Measurements</u>			
	Activity		MDC	<u>Tritium</u>		<u>Carbon-14</u>	
	Activity	MDC	MDC	Activity	MDC	Activity	MDC
BB-PVE2-E1-M-001	54	2191	1072	10 ± 11	44	10 ± 8	26
BB-PVE2-E1-M-002	1998	3347	1072	19 ± 14	44	49 ± 17	26
BB-PVE2-E1-M-003	-162	2022	1072	24 ± 16	44	11 ± 8	26
BB-PVE2-E1-M-004	-162	2022	1072	42 ± 21	44	8 ± 7	26
BB-PVE2-E1-M-005				19 ± 14	44	17 ± 10	26
BB-PVE2-E1-M-006				20 ± 15	44	12 ± 9	26
BB-PVE2-E1-M-007				23 ± 16	44	17 ± 10	26
BB-PVE2-E1-M-008				18 ± 14	44	9 ± 7	26
BB-PVE2-E1-M-009				6 ± 8	44	13 ± 9	26
BB-PVE2-E1-M-010				14 ± 12	44	16 ± 10	26
BB-PVE2-E1-M-011				13 ± 12	44	11 ± 8	26
BB-PVE2-E1-M-012				18 ± 14	44	10 ± 8	26
BB-PVE2-E1-M-013				29 ± 17	44	13 ± 9	26
BB-PVE2-E1-M-014				14 ± 12	44	18 ± 10	26
BB-PVE2-E1-M-015				15 ± 12	44	13 ± 9	26
BB-PVE2-E1-M-016				17 ± 13	44	16 ± 10	26
BB-PVE2-E1-M-017				21 ± 15	44	7 ± 7	26
BB-PVE2-E1-M-018				18 ± 14	44	11 ± 8	26
BB-PVE2-E1-M-019				30 ± 18	44	16 ± 10	26
BB-PVE2-E1-M-020				18 ± 14	44	19 ± 11	26
BB-PVE2-E1-M-021				11 ± 11	44	20 ± 11	26
BB-PVE2-E1-M-022				19 ± 14	44	10 ± 8	26
BB-PVE2-E1-M-023				25 ± 16	44	17 ± 10	26
BB-PVE2-E1-M-024				14 ± 12	44	16 ± 10	26
BB-PVE2-E1-M-025				23 ± 16	44	10 ± 8	26

Note: All activity results reported in dpm/100cm<sup>2</sup>



## Building Systems Final Status Survey Results

Building BB	Survey Unit RVE1				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
BB-RVE1-E2-M-001			24 ± 16	44	14 ± 9	26
BB-RVE1-E2-M-002			11 ± 11	44	12 ± 8	26
BB-RVE1-E2-M-003			24 ± 16	44	12 ± 8	26
BB-RVE1-E2-M-004			6 ± 8	44	11 ± 8	26
BB-RVE1-E3-M-005			28 ± 17	44	17 ± 10	26
Summary for Survey Unit # RVE1 (5 detail records)						
<b>Average</b>			19		13	
<b>Minimum</b>			6		11	
<b>Maximum</b>			28		17	
<b>Standard Deviation</b>			9		3	
Summary for Building # BB (1446 detail records)						
<b>Avg</b>	410		18		14	
<b>Min</b>	-162		0		2	
<b>Max</b>	1998		273		49	

Building CC	Survey Unit 2DR1				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
CC-2DR1-D3-M-001			15 ± 13	44	18 ± 11	26
CC-2DR1-D3-M-002			13 ± 12	44	12 ± 8	26
Summary for Survey Unit # 2DR1 (2 detail records)						
<b>Average</b>			14		15	
<b>Minimum</b>			13		12	
<b>Maximum</b>			15		18	
<b>Standard Deviation</b>			2		5	

**Note: All activity results reported in dpm/100cm<sup>2</sup>**



## Building Systems Final Status Survey Results

Building CC	Survey Unit 3DR1				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
CC-3DR1-D3-M-001			16 ± 13	44	23 ± 12	26
Summary for Survey Unit # 3DR1 (1 detail record)						
Average			16		23	
Minimum			16		23	
Maximum			16		23	
Standard Deviation						

Building CC	Survey Unit 3VA1				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
CC-3VA1-V1-M-001			15 ± 13	44	14 ± 9	26
Summary for Survey Unit # 3VA1 (1 detail record)						
Average			15		14	
Minimum			15		14	
Maximum			15		14	
Standard Deviation						

Building CC	Survey Unit 3VE1				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
CC-3VE1-E2-M-001			26 ± 17	44	11 ± 8	26
Summary for Survey Unit # 3VE1 (1 detail record)						
Average			26		11	
Minimum			26		11	
Maximum			26		11	
Standard Deviation						

**Note: All activity results reported in dpm/100cm<sup>2</sup>**

## Building Systems Final Status Survey Results

Building CC	Survey Unit 4DR1				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
CC-4DR1-D3-M-001			10 ± 10	44	18 ± 10	26
CC-4DR1-D1-M-002			13 ± 12	44	17 ± 10	26
Summary for Survey Unit # 4DR1 (2 detail records)						
<b>Average</b>			12		18	
<b>Minimum</b>			10		17	
<b>Maximum</b>			13		18	
<b>Standard Deviation</b>			2		1	

Building CC	Survey Unit 4VA1				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
CC-4VA1-V1-M-001			9 ± 10	44	13 ± 9	26
CC-4VA1-V1-M-002			18 ± 14	44	9 ± 7	26
CC-4VA1-V1-M-003			17 ± 13	44	13 ± 9	26
CC-4VA1-V1-M-004			21 ± 15	44	15 ± 9	26
Summary for Survey Unit # 4VA1 (4 detail records)						
<b>Average</b>			16		13	
<b>Minimum</b>			9		9	
<b>Maximum</b>			21		15	
<b>Standard Deviation</b>			5		3	

**Note: All activity results reported in dpm/100cm<sup>2</sup>**















## Building Systems Final Status Survey Results

Building GG	Survey Unit 2VE4				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
GG-2VE4-E2-M-001			16 ± 13	44	13 ± 9	26
GG-2VE4-E1-M-002			20 ± 15	44	12 ± 9	26
GG-2VE4-E2-M-003			19 ± 14	44	16 ± 10	26
GG-2VE4-E1-M-004			12 ± 11	44	19 ± 11	26
GG-2VE4-E1-M-005			8 ± 9	44	17 ± 10	26
GG-2VE4-E2-M-006			8 ± 9	44	14 ± 9	26
GG-2VE4-E1-M-007			24 ± 16	44	11 ± 8	26
GG-2VE4-E1-M-008			19 ± 14	44	5 ± 5	26
Summary for Survey Unit # 2VE4 (8 detail records)						
<b>Average</b>			16		13	
<b>Minimum</b>			8		5	
<b>Maximum</b>			24		19	
<b>Standard Deviation</b>			6		4	

**Note: All activity results reported in dpm/100cm<sup>2</sup>**

## Building Systems Final Status Survey Results

Building GG	Survey Unit DR01				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
GG-DR01-D3-M-001			10 ± 10	44	12 ± 8	26
GG-DR01-D2-M-002			8 ± 9	44	10 ± 8	26
GG-DR01-D2-M-003			23 ± 16	44	20 ± 11	26
GG-DR01-D3-M-004			37 ± 20	44	7 ± 6	26
GG-DR01-D2-M-005			453 ± 70	44	74 ± 21	26
GG-DR01-D2-M-006			81 ± 29	44	8 ± 7	26
GG-DR01-D3-M-007			20 ± 15	44	19 ± 11	26
GG-DR01-D2-M-008			15 ± 13	44	8 ± 7	26
GG-DR01-D2-M-009			28 ± 17	44	18 ± 10	26
GG-DR01-D3-M-010			69 ± 27	44	6 ± 6	26
GG-DR01-D2-M-011			71 ± 28	44	12 ± 8	26
GG-DR01-D2-M-012			19 ± 14	44	11 ± 8	26
GG-DR01-D3-M-013			28 ± 17	44	9 ± 7	26
GG-DR01-D2-M-014			41 ± 21	44	13 ± 9	26
GG-DR01-D2-M-015			17 ± 14	44	11 ± 8	26
GG-DR01-D3-M-016			19 ± 14	44	16 ± 10	26
GG-DR01-D3-M-017			54 ± 24	44	13 ± 9	26
GG-DR01-D2-M-018			90 ± 31	44	6 ± 6	26
GG-DR01-D2-M-019			74 ± 28	44	2 ± 4	26
GG-DR01-D3-M-020			11 ± 11	44	7 ± 6	26
GG-DR01-D2-M-021			32 ± 18	44	9 ± 7	26
GG-DR01-D2-M-022			16 ± 13	44	15 ± 9	26
GG-DR01-D2-M-023			11 ± 11	44	25 ± 12	26
GG-DR01-D2-M-024			25 ± 16	44	5 ± 5	26
GG-DR01-D2-M-025			37 ± 20	44	15 ± 10	26

**Note: All activity results reported in dpm/100cm<sup>2</sup>**





## Building Systems Final Status Survey Results

Building GG	Survey Unit RDR1				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
GG-RDR1-D2-M-001			16 ± 13	44	8 ± 7	26
GG-RDR1-D2-M-002			25 ± 16	44	9 ± 8	26
GG-RDR1-D2-M-003			14 ± 12	44	14 ± 9	26
GG-RDR1-D2-M-004			21 ± 15	44	15 ± 9	26
Summary for Survey Unit # RDR1 (4 detail records)						
<b>Average</b>			19		11	
<b>Minimum</b>			14		8	
<b>Maximum</b>			25		15	
<b>Standard Deviation</b>			5		3	

**Note:** All activity results reported in dpm/100cm<sup>2</sup>

## Building Systems Final Status Survey Results

Building GG	Survey Unit RVE1				Class: N/A	
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
GG-RVE1-E2-M-001			30 ± 18	44	10 ± 8	26
GG-RVE1-E3-M-002			24 ± 16	44	7 ± 7	26
GG-RVE1-E3-M-003			12 ± 11	44	15 ± 9	26
GG-RVE1-E3-M-004			9 ± 10	44	2 ± 3	26
GG-RVE1-E3-M-005			6 ± 8	44	13 ± 9	26
GG-RVE1-E3-M-006			19 ± 14	44	11 ± 8	26
GG-RVE1-E3-M-007			13 ± 12	44	17 ± 10	26
GG-RVE1-E3-M-008			7 ± 9	44	8 ± 7	26
GG-RVE1-E3-M-009			23 ± 16	44	18 ± 10	26
GG-RVE1-E3-M-010			12 ± 11	44	21 ± 11	26
GG-RVE1-E3-M-011			20 ± 15	44	11 ± 8	26
GG-RVE1-E3-M-012			22 ± 15	44	12 ± 9	26
GG-RVE1-E3-M-013			36 ± 20	44	9 ± 7	26
GG-RVE1-E3-M-014			29 ± 18	44	11 ± 8	26
GG-RVE1-E3-M-015			21 ± 15	44	15 ± 9	26
GG-RVE1-E3-M-016			8 ± 9	44	14 ± 9	26
GG-RVE1-E3-M-017			25 ± 16	44	10 ± 8	26
GG-RVE1-E3-M-018			11 ± 11	44	10 ± 8	26
GG-RVE1-E3-M-019			8 ± 9	44	20 ± 11	26
GG-RVE1-E3-M-020			10 ± 10	44	18 ± 10	26
GG-RVE1-E3-M-021			20 ± 15	44	10 ± 8	26
GG-RVE1-E3-M-022			13 ± 12	44	19 ± 11	26
GG-RVE1-E3-M-023			1 ± 3	44	16 ± 10	26
GG-RVE1-E3-M-024			18 ± 14	44	15 ± 9	26
GG-RVE1-E3-M-025			27 ± 17	44	9 ± 7	26

**Note: All activity results reported in dpm/100cm<sup>2</sup>**



## Building Systems Final Status Survey Results

Building GG	Survey Unit VE01			Class: N/A			
Location Code	<u>Total Beta Activity Measurements</u>			<u>Removable Activity Measurements</u>			
	Activity	MDC		<u>Tritium</u>		<u>Carbon-14</u>	
				Activity	MDC	Activity	MDC
GG-VE01-E2-M-001				30 ± 18	44	13 ± 9	26
GG-VE01-E2-M-002				38 ± 20	44	11 ± 8	26
GG-VE01-E2-M-003				24 ± 16	44	11 ± 8	26
GG-VE01-E1-M-004	-108	2022	1055	23 ± 16	44	13 ± 9	26
GG-VE01-E2-M-005				15 ± 12	44	11 ± 8	26
GG-VE01-E2-M-006				8 ± 9	44	13 ± 9	26
GG-VE01-E2-M-007				18 ± 14	44	17 ± 10	26
GG-VE01-E2-M-008				13 ± 12	44	19 ± 11	26
GG-VE01-E2-M-009				10 ± 10	44	13 ± 9	26
GG-VE01-E2-M-010				30 ± 18	44	8 ± 7	26
GG-VE01-E2-M-011				13 ± 12	44	11 ± 8	26
GG-VE01-E2-M-012				23 ± 16	44	16 ± 10	26
GG-VE01-E2-M-013				10 ± 10	44	15 ± 9	26
GG-VE01-E2-M-014				14 ± 12	44	15 ± 9	26
GG-VE01-E2-M-015				18 ± 14	44	10 ± 8	26
GG-VE01-E2-M-016				26 ± 17	44	9 ± 7	26
GG-VE01-E2-M-017				13 ± 12	44	11 ± 8	26
GG-VE01-E2-M-018				33 ± 19	44	14 ± 9	26
GG-VE01-E1-M-019	270	2309	1055	15 ± 13	44	12 ± 9	26
GG-VE01-E1-M-020	0	2108	1055	16 ± 13	44	8 ± 7	26
GG-VE01-E1-M-021	54	2150	1055	13 ± 12	44	10 ± 8	26
GG-VE01-E1-M-022	270	2309	1055	18 ± 14	44	18 ± 10	26
GG-VE01-E1-M-023	-108	2022	1055	9 ± 10	44	10 ± 8	26
GG-VE01-E1-M-024	-324	1838	1055	25 ± 16	44	19 ± 11	26
GG-VE01-E1-M-025	756	2633	1055	19 ± 14	44	15 ± 9	26

**Note: All activity results reported in dpm/100cm<sup>2</sup>**

## Building Systems Final Status Survey Results

Building GG	Survey Unit VE01			Class: N/A			
Location Code	<u>Total Beta Activity Measurements</u>			<u>Removable Activity Measurements</u>			
	Activity	MDC	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
	Activity	MDC	MDC	Activity	MDC	Activity	MDC
GG-VE01-E1-M-026	378	2385	1055	30 ± 18	44	22 ± 11	26
GG-VE01-E1-M-027	-540	1633	1055	18 ± 14	44	19 ± 11	26
GG-VE01-E1-M-028	270	2309	1055	13 ± 12	44	15 ± 9	26
GG-VE01-E1-M-029				28 ± 17	44	7 ± 6	26
Summary for Survey Unit # VE01 (29 detail records)							
<b>Average</b>	83			19		13	
<b>Minimum</b>	-540			8		7	
<b>Maximum</b>	756			38		22	
<b>Standard Deviation</b>	358			8		4	
Summary for Building # GG (130 detail records)							
<b>Avg</b>	83			26		13	
<b>Min</b>	-540			1		2	
<b>Max</b>	756			453		74	

**Note: All activity results reported in dpm/100cm<sup>2</sup>**

## Quality Assurance Survey Results

Building	Survey Unit		Class			
BB	1QA1		3			
Location Code	Total Beta Activity Measurements		Removable Activity Measurements			
	Activity	MDC	Tritium		Carbon-14	
			Activity	MDC	Activity	MDC
BB-1QA1-F1-C-001	286 ± 3443	297	25 ± 16	44	11 ± 8	26
BB-1QA1-F1-T-002	286 ± 3443	297	19 ± 14	44	20 ± 11	26
BB-1QA1-F1-M-003	-34 ± 2660	297	12 ± 11	44	15 ± 9	26
BB-1QA1-F1-C-004	149 ± 3132	297	15 ± 13	44	19 ± 11	26
BB-1QA1-B1-M-005	11 ± 2785	297	14 ± 12	44	14 ± 9	26
BB-1QA1-B1-M-006	103 ± 3021	297	21 ± 15	44	16 ± 10	26
BB-1QA1-F1-C-007	160 ± 3159	297	18 ± 14	44	15 ± 9	26
BB-1QA1-F1-M-008	-34 ± 2660	297	12 ± 11	44	9 ± 7	26
BB-1QA1-F1-T-009	286 ± 3443	297	22 ± 15	44	18 ± 10	26
BB-1QA1-F1-M-010	-160 ± 2280	297	20 ± 15	44	25 ± 12	26
BB-1QA1-F1-C-011	137 ± 3104	297	6 ± 8	44	23 ± 12	26
BB-1QA1-F1-C-012	92 ± 2992	297	15 ± 13	44	15 ± 9	26
BB-1QA1-F1-M-013	-46 ± 2628	297	15 ± 13	44	11 ± 8	26
BB-1QA1-F1-C-014	286 ± 3443	297	21 ± 15	44	14 ± 9	26
Summary for Survey Unit # 1QA1 (14 detail records)						
Average	109		17		16	
Minimum	-160		6		9	
Maximum	286		25		25	
Standard Deviation	146		5		5	

Note: All activity results reported in dpm/100cm<sup>2</sup>

## Quality Assurance Survey Results

**Building BB****Survey Unit 1QA2****Class 3**

Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
BB-1QA2-F1-T-001	848 ± 4301	265	7 ± 9	44	18 ± 10	26
BB-1QA2-F1-C-002	34 ± 2525	265	22 ± 15	44	15 ± 9	26
BB-1QA2-F1-M-003	23 ± 2491	265	26 ± 17	44	10 ± 8	26
BB-1QA2-F1-M-004	23 ± 2491	265	17 ± 13	44	21 ± 11	26
BB-1QA2-F1-M-005	0 ± 2421	265	17 ± 13	44	14 ± 9	26
BB-1QA2-F1-M-006	0 ± 2421	265	13 ± 12	44	6 ± 6	26
BB-1QA2-F1-M-007	115 ± 2751	265	21 ± 15	44	11 ± 8	26
BB-1QA2-F1-M-008	46 ± 2559	265	21 ± 15	44	15 ± 9	26
BB-1QA2-F1-M-009	-69 ± 2200	265	20 ± 15	44	11 ± 8	26
BB-1QA2-F1-M-010	-80 ± 2161	265	18 ± 14	44	8 ± 7	26
BB-1QA2-F1-M-011	23 ± 2491	265	17 ± 13	44	12 ± 8	26
BB-1QA2-F1-M-012	0 ± 2421	265	6 ± 8	44	14 ± 9	26
BB-1QA2-F1-M-013	46 ± 2559	265	20 ± 15	44	16 ± 10	26
BB-1QA2-F1-M-014	23 ± 2491	265	23 ± 16	44	6 ± 6	26
Summary for Survey Unit # 1QA2 (14 detail records)						
Average	74		18		13	
Minimum	-80		6		6	
Maximum	848		26		21	
Standard Deviation	228		6		4	
Summary for Building # BB (28 detail records)						
Avg	91		17		14	
Min	-160		6		6	
Max	848		26		25	

Note: All activity results reported in dpm/100cm<sup>2</sup>



## Quality Assurance Survey Results

Building GG	Survey Unit QA01		Class 3			
Location Code	<u>Total Beta Activity Measurements</u>		<u>Removable Activity Measurements</u>			
	Activity	MDC	<u>Tritium</u>		<u>Carbon-14</u>	
			Activity	MDC	Activity	MDC
GG-QA01-F1-C-001	594 ± 2539	1093	25 ± 16	44	7 ± 6	26
GG-QA01-F1-C-002	540 ± 2503	1093	15 ± 13	44	22 ± 11	26
GG-QA01-F1-M-003	0 ± 2119	1093	25 ± 16	44	5 ± 5	26
GG-QA01-F1-M-004	0 ± 2119	1093	9 ± 10	44	21 ± 11	26
GG-QA01-F1-M-005	108 ± 2201	1093	21 ± 15	44	4 ± 5	26
GG-QA01-F1-M-006	270 ± 2319	1093	12 ± 11	44	19 ± 11	26
Summary for Survey Unit # QA01 (6 detail records)						
<b>Average</b>	252		18		13	
<b>Minimum</b>	0		9		4	
<b>Maximum</b>	594		25		22	
<b>Standard Deviation</b>	264		7		9	
Summary for Building # GG (6 detail records)						
<b>Avg</b>	252		18		13	
<b>Min</b>	0		9		4	
<b>Max</b>	594		25		22	

**Note: All activity results reported in dpm/100cm<sup>2</sup>**

