

ATTACHMENT A**LIMITED RENOVATION ASBESTOS SURVEY REPORT**

**Communicore – Air Handlers 7 & 8 Replacement
University of Florida
Gainesville, Florida**

GLE Project No.: 20140-01875

Prepared for:

**Ms. Tamera Baughman
University of Florida
Planning Design and Construction
232 Stadium Box 115050
Gainesville, Florida 32611**

January 2020

Prepared by:



**2228 NW 40th Terrace, Suite C
Gainesville, Florida 32605
352-335-6648 • Fax 352-335-6187**



January 15, 2020

Ms. Tamera Baughman
University of Florida
Planning Design and Construction
232 Stadium Box 115050
Gainesville, Florida 32611

**RE: Limited Renovation Asbestos Survey Report
Communicore – Air Handlers 7 & 8 Replacement
University of Florida
Gainesville, Florida**

GLE Project No.: 20140-01875

Dear Ms. Baughman:

GLE Associates, Inc. (GLE) performed a limited renovation survey for asbestos-containing materials (ACM) on January 8, 2020, at the Communicore Building, of the University of Florida, located in Gainesville, Florida. The survey was performed by Mr. Artiom Chacon with GLE. This report outlines the sampling and testing procedures, and presents the results along with our conclusions and recommendations.

GLE appreciates the opportunity to serve as your consultant on this project. If you should have any questions, or if we can be of further service, please do not hesitate to call.

Sincerely,
GLE Associates, Inc.

Artiom Chacon
Senior Project Manager

Robert B. Greene, PE, PG, CIH, LEED AP
President
Florida LAC# EA 0000009

AC/PSZ/RBG/lr

G:\Work\Asbestos\20\20140 - UF\01875 - Communicore C4-2 and C4-3 Survey\Report\SURVEYREPORT.doc

GLE Associates, Inc.

2228 NW 40th Terrace, Suite C | Gainesville, Florida 32605 | 352-335-6648 | Fax: 352-335-6187
Tampa | Orlando | Ft. Lauderdale | Miami | Jacksonville | Atlanta | Nashville
Architecture AA 0002369 • Engineer CA 5483 • Asbestos ZA 0000034 • Geology GB 0000297

TABLE OF CONTENTS

1.0	INTRODUCTION.....	1
1.1	Introduction.....	1
1.2	Facility Description.....	1
2.0	RESULTS.....	2
2.1	Asbestos Survey Procedures.....	2
2.2	Identified Suspect Asbestos-Containing Materials.....	3
	Table 2.2-1 — Summary of Homogeneous Sampling Areas	
3.0	CONCLUSIONS AND RECOMMENDATIONS.....	5
3.1	General.....	5
3.2	Specific.....	6
4.0	LIMITATIONS AND CONDITIONS.....	7
APPENDICES		
	Appendix A – Analytical Results and Chain of Custody	
	Appendix B – Personnel and Laboratory Certifications	
	Appendix C – Photographs	

1.0 INTRODUCTION

1.1 INTRODUCTION

The purpose of this limited renovation survey was to identify accessible asbestos-containing materials (ACMs) and their general locations in mechanical rooms C4-2 (Air Handler 8) and C4-3 (Air Handler 7) of the Communicore Building, located at the University of Florida in Gainesville, Florida. It is our understanding that the survey will be limited to the interior of the subject areas. The survey was conducted pursuant to National Emission Standards for Hazardous Air Pollutants (NESHAP, 40 CFR 61) requirements, associated with the scheduled renovation plans. The survey was performed on January 8, 2020, by Mr. Artiom Chacon, an Environmental Protection Agency/Asbestos Hazard Emergency Response Act (EPA/AHERA) accredited inspector. The scope of this survey did not include demolition of any building components, evaluation of architectural plans.

1.2 FACILITY DESCRIPTION

A summary of the facility investigated is outlined in the table below.

Facility Type:	Hospital
Construction Date:	1975
Number of Floors:	1 in Scope
Exterior	
Floor Support:	Concrete Slab on Grade
Wall Support:	Concrete Block (CMU), Metal Framing
Interior	
Wall Substrate:	CMU
Wall Finishes:	Paint
Floor Finishes:	Concrete

2.0 RESULTS

2.1 ASBESTOS SURVEY PROCEDURES

The survey was performed by visually observing accessible areas within the scope of work. An EPA/AHERA accredited inspector performed the visual observations (refer to Appendix B for personnel qualifications).

After the overall visual survey was completed, representative sampling areas were determined. The surveyor delineated homogeneous areas of suspect materials and samples of each material were obtained, in general accordance with regulations as established by the Occupational Safety and Health Administration (OSHA) and NESHAP. The field surveyor determined sample locations based on previous experience. Both friable and non-friable materials were sampled. A friable material is one that can be crushed when dry by normal hand pressure. This survey did not include the demolition of building components to access suspect material.

After completion of the fieldwork, the samples were delivered to GLE's National Voluntary Laboratory Accreditation Program (NVLAP) accredited laboratory for analysis. The samples were analyzed by Polarized Light Microscopy (PLM) coupled with dispersion staining, in general accordance with EPA-600/R-93/116. Utilizing this procedure, the various asbestos minerals (chrysotile, amosite, crocidolite, actinolite, tremolite, and anthophyllite) can be determined. The percentages of asbestos minerals in the samples were visually determined by the microscopist. Please note that the EPA designates all materials containing greater than one percent asbestos as an "asbestos-containing material" (ACM).

Regulated Asbestos-Containing Material (RACM) is defined as (a) Friable asbestos materials, (b) Category I non-friable ACM that has become friable, (c) Category I non-friable ACM that will be or has been subjected to sanding, grinding, cutting, or abrading, or (d) Category II non-friable ACM that has a high probability of becoming or has become crumbled, pulverized, or reduced to powder by the forces expected to act on the material in the course of demolition or renovation operations regulated by this subpart.

Category I and Category II non-friable ACM, as defined by the EPA:

- Category I non-friable ACM means asbestos-containing packings, gaskets, resilient floor covering, asphalt roofing products, and pliable sealants and mastics that are in good condition and not friable, containing more than one percent asbestos, as determined using the method specified in Appendix E, Subpart E, 40 CFR Part 763, Section 1, PLM.
- Category II non-friable ACM means any material, excluding Category I non-friable ACM, containing more than one percent asbestos as determined using the methods specified in Appendix E, Subpart E, 40 CFR Part 763 Section 1, PLM that, when dry, cannot be crumbled, pulverized, or reduced to powder by hand pressure.

2.2 IDENTIFIED SUSPECT ASBESTOS-CONTAINING MATERIALS

A total of 27 samples of suspect building materials were collected from the facility during the survey, representing nine different identified homogeneous areas. The results of the laboratory analyses are included in Appendix A. Photographs of the various materials sampled are included in Appendix C.

A summary of the homogenous sampling areas of suspect ACM determined to be present is outlined in the following table.

**TABLE 2.2-1: SUMMARY OF HOMOGENEOUS SAMPLING AREAS
COMMUNICORE, ROOMS C4-2 AND C4-3 – UNIVERSITY OF FLORIDA
GAINESVILLE, FLORIDA**

HA #	HOMOGENEOUS MATERIAL DESCRIPTION	HOMOGENEOUS MATERIAL LOCATION	FRIABILITY (F/NF)	% ASBESTOS*	# OF SAMPLES COLLECTED	APPROXIMATE QUANTITY	ACM CATEGORY
FP-01	Light Blue Fireproofing	Ceiling Throughout	F	ND	3	NIS	NA
M-01	Vibration Damper	Associated with AHUs 7 & 8	NF	ND	3	NIS	NA
M-02	Brown Caulk	Seams of AHUs 7 & 8	NF	5%C	3	210 LF	CAT I
M-03	Black Gasket	Access Hatches of AHUs 7 & 8	NF	ND	3	NIS	NA
M-04	Gray Over White Caulk	Exterior Ductwork Seams of AHU 8	NF	ND	3	NIS	NA
MAS-01	White Duct Mastic	Exterior of AHU 7 Ductwork	NF	ND	3	NIS	NA
MAS-02	White Duct Mastic	Interior Lining of AHUs 7 & 8 Ductwork	NF	ND	3	NIS	NA
TSI-01	White Mastic on Foamglass with White Wrap	Chilled Water Supply for AHUs 7 & 8	NF	ND	3	NIS	NA
TSI-02	White Mastic on Foamglass with White Wrap	Chilled Water Return for AHUs 7 & 8	NF	ND	3	NIS	NA

ASBESTOS CONTENT Expressed as percent	* = The facility owner has the option of point-counting by Polarized Light Microscopy (PLM) those RACM whose asbestos content is less than 10% in order to more accurately determine the asbestos content therein.						
	PC = Results based on Point-Count analysis		TEM NOB = Transmission Electron Microscopy of Non-Friable Organically Bound Material				
FRIABILITY	F = Friable Material		NF = Non-Friable Material				
ACM CATEGORY	RACM = Regulated ACM		CAT I = Category I non-friable ACM		CAT II = Category II non-friable ACM		
ABBREVIATIONS:	NA = Not Applicable		ND = None Detected	NIS = Not in Scope		C = Chrysotile	A = Amosite
	HA = Homogeneous Area		SF = Square Feet		LF = Linear Feet		CF = Cubic Feet

3.0 CONCLUSIONS AND RECOMMENDATIONS

3.1 GENERAL

Asbestos-containing materials (ACMs) were identified in the scope of this survey. General and specific conclusions and recommendations are provided below.

The EPA, OSHA and the State of Florida have promulgated regulations dealing with asbestos. For commercial building owners, the EPA NESHAP (40 CFR 61) regulations require removal of RACM, prior to conducting activities which might disturb the material. They also deal with notification, handling and disposal of asbestos.

No homogenous areas of suspect RACM were determined to contain less than 10 percent asbestos by PLM analysis. According to the NESHAP, when the asbestos content of a bulk sample of suspect RACM is determined to be less than 10 percent by PLM visual estimation, you may:

1. Assume the amount to be greater than one percent and treat the material as asbestos-containing; or
2. Conduct confirmatory verification by point-counting. Note, the results obtained by point-counting are considered the definitive analytical result.

The EPA recommends that an Operations and Maintenance (O&M) Program be developed for any facilities with ACM, and this Program should address all ACM (known and/or assumed) present. The O&M Program establishes notification and training requirements along with special procedures for working around the ACM. The O&M Program would remain in effect until all asbestos is removed.

Category I and Category II non-friable materials, as defined by the EPA, may remain within a facility during demolition with no potential cessation of work, provided they remain non-friable and the appropriate engineering controls (i.e., wet methods) are utilized, with the resulting waste disposed of as asbestos-containing waste. However, there is no guarantee that these materials will remain non-friable. If the materials become friable, then they are classified as RACM.

RACM, as defined by the EPA, must be removed prior to renovation or demolition activities that may disturb the materials.

The OSHA regulations deal with employee exposure to airborne asbestos fibers. The regulations restrict employee exposure, and require special monitoring, training and handling procedures when dealing with asbestos. Additionally, OSHA has regulations that may supersede the EPA regulations. In order to protect the worker, OSHA has established a permissible exposure limit (PEL), which limits employee exposure to airborne fiber concentrations. OSHA requires objective evidence that the PEL will not be exceeded, as justification that personal air monitoring

and engineering controls will not be required. OSHA has also established rules requiring the containerization and labeling of asbestos waste.

The State regulations require that anyone involved in asbestos consulting activities be a licensed asbestos consultant and that anyone involved in asbestos abatement, with the exception of roofing materials, be a licensed asbestos abatement contractor.

3.2 SPECIFIC

Brown Caulk

This material is defined by the EPA as a Category I non-friable material. This material does not appear to present a significant issue, as observed, at the time of the survey. We recommend that the identified ACM be maintained as part of an O&M Program and periodically monitored for any changes in condition. Additionally, we recommend that a licensed asbestos abatement contractor properly remove and dispose of the ACM prior to conducting renovation activities that might disturb the ACM.

4.0 LIMITATIONS AND CONDITIONS

As a result of previous renovations, there may be hidden materials, such as floor tile, sheet vinyl flooring, insulation, etc. These materials may be found in various areas hidden under existing flooring materials or in wall cavities. Any materials found during construction activities, either not addressed in this survey report, or similar to the ACM identified in this survey report should be assumed to be ACM until sampling and analysis documents otherwise.

Because of the hidden nature of many building components (i.e. within mechanical chases), it may be impossible to determine if all of the suspect building materials have been located and subsequently tested. Destructive testing in some instances is not a viable option. We cannot, therefore, guarantee that all potential ACM has been located. For the same reasons, estimates of quantities and/or conditions are subject to readily apparent situations, and our findings reflect this condition. We do warrant, however, that the investigations and methodology reflect our best efforts based upon the prevailing standard of care in the environmental industry.

The information contained in this report was prepared based upon specific parameters and regulations in force at the time of this report. The information herein is only for the specific use of the client and GLE. GLE accepts no responsibility for the use, interpretation, or reliance by other parties on the information contained herein, unless prior written authorization has been obtained from GLE.

APPENDIX A

Analytical Results and Chain of Custody

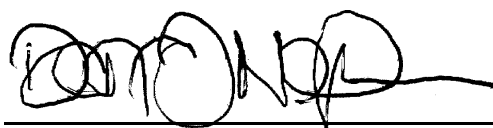
SUMMARY OF BULK SAMPLE ANALYSIS

UF; Communicore Air Handlers 7 & 8 Replacement

20140-01875

Sample	Sample Type	Fiber Type	
FP-01A	Light Blue Fireproofing	100%	Cellulose/paper
FP-01B	Light Blue Fireproofing	100%	Cellulose/paper
FP-01C-QC	Light Blue Fireproofing	100%	Cellulose/paper
M-01A	Vibration Damper	100%	Polymer
M-01B	Vibration Damper	100%	Polymer
M-01C	Vibration Damper	100%	Polymer
M-02A	Brown Caulk	5% 95%	Chrysotile Asbestos Polymer, Quartz, Calcite, Clay, Mica
M-02B	Brown Caulk		Positive Stop/Sample not analyzed
M-02C	Brown Caulk		Positive Stop/Sample not analyzed
M-03A	Black Gasket	100%	Polymer
M-03B	Black Gasket	100%	Polymer
M-03C	Black Gasket	100%	Polymer
M-04A-QC	Gray over White Caulk	100%	Polymer, Quartz, Calcite, Clay, Mica
M-04B	Gray over White Caulk	100%	Polymer, Quartz, Calcite, Clay, Mica
M-04C	Gray over White Caulk	100%	Polymer, Quartz, Calcite, Clay, Mica

Analyst / Approved
Signatory:



Darryl Neldner

* Polarized Light Microscopy coupled with dispersion is the technique used for identification in accordance with EPA 600/M4-82-020, EPA 600/R-93/116, and NIOSH Method 9002.

** The percentage of each component is visually estimated. The result of this analysis relate only to the material tested. The report shall not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. (>1% greater than one percent, <1% less than one percent) QC - Sample reanalyzed for QA/QC.

*** This report shall not be reproduced except in full, without the written approval of the laboratory. GLE Report # 24867

Analysis performed by GLE Associates, Inc. NVLAP Code 102003-0, CO AL-17485, TX 30-0337

Feedback regarding laboratory performance should be addressed to lab@gleassociates.com.

Report Date: 1/10/2020

Page 1 of 2

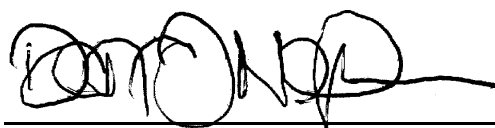
SUMMARY OF BULK SAMPLE ANALYSIS

UF; Communicore Air Handlers 7 & 8 Replacement

20140-01875

Sample	Sample Type		Fiber Type
MAS-01A	White Duct Mastic	100%	Polymer, Quartz, Calcite, Clay, Mica
MAS-01B	White Duct Mastic	100%	Polymer, Quartz, Calcite, Clay, Mica
MAS-01C	White Duct Mastic	100%	Polymer, Quartz, Calcite, Clay, Mica
MAS-02A	White Duct Mastic	100%	Polymer, Quartz, Calcite, Clay, Mica
MAS-02B	White Duct Mastic	100%	Polymer, Quartz, Calcite, Clay, Mica
MAS-02C	White Duct Mastic	100%	Polymer, Quartz, Calcite, Clay, Mica
TSI-01A	White Mastic on Foamglass & White Wrap	100%	Polymer, Quartz, Calcite, Clay, Mica
TSI-01B-QC	White Mastic on Foamglass & White Wrap	100%	Polymer, Quartz, Calcite, Clay, Mica
TSI-01C	White Mastic on Foamglass & White Wrap	100%	Polymer, Quartz, Calcite, Clay, Mica
TSI-02A	White Mastic on Foamglass & White Wrap	100%	Polymer, Quartz, Calcite, Clay, Mica
TSI-02B	White Mastic on Foamglass & White Wrap	100%	Polymer, Quartz, Calcite, Clay, Mica
TSI-02C	White Mastic on Foamglass & White Wrap	100%	Polymer, Quartz, Calcite, Clay, Mica

Analyst / Approved
Signatory:



Darryl Neldner

* Polarized Light Microscopy coupled with dispersion is the technique used for identification in accordance with EPA 600/M4-82-020, EPA 600/R-93/116, and NIOSH Method 9002.

** The percentage of each component is visually estimated. The result of this analysis relate only to the material tested. The report shall not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. (>1% greater than one percent, <1% less than one percent) QC - Sample reanalyzed for QA/QC.

*** This report shall not be reproduced except in full, without the written approval of the laboratory. GLE Report # 24867

Analysis performed by GLE Associates, Inc. NVLAP Code 102003-0, CO AL-17485, TX 30-0337

Feedback regarding laboratory performance should be addressed to lab@gleassociates.com.

Report Date: 1/10/2020

Page 2 of 2

CHAIN OF CUSTODY/SAMPLE TRANSMITTAL FORM

GLE Associates, Inc.
2228 NW 40th Terrace, Suite C
Gainesville, FL 32605
PHONE: (352) 335-6648 FAX: (352) 335-6187

CLIENT: UF

PROJECT #: 20140-01875

PROJECT: Communicore Air Handlers 7 & 8 Replacement

LABORATORY SENT TO: TAMPA GLE

DATE: January 8, 2020

SAMPLE INFORMATION

SAMPLE #	DESCRIPTION	SAMPLE #	DESCRIPTION
FP-01 A-C	Light Blue Fireproofing		
M-01 A-C	Vibration Damper		
M-02 A-C	Brown Caulk		
M-03 A-C	Black Gasket		
M-04 A-C	Gray Over White Caulk		
MAS-01 A-C	White Duct Mastic		
MAS-02 A-C	White Duct Mastic		
TSI-01 A-C	White Mastic on Foamglass with White Wrap		
TSI-02 A-C	White Mastic on Foamglass with White Wrap		
IMPORTANT: TOTAL NUMBER OF SAMPLES SUBMITTED		27	
IMPORTANT: POSITIVE STOP ANALYSIS		YES	
IMPORTANT: E-MAIL RESULTS TO		a.chacon, p.zak	

NOTE:

Turnaround time starts at receipt by lab and does not include weekend or holidays.

Select Turnaround Time

☐ 3 hour
 ☐ 6 Hour
 ☐ 24 Hour
 ☐ 48 Hour
 ☐ 3 Day
 ☒ 4 Day

REPORT RESULTS TO THE ADDRESS ABOVE

CHAIN OF CUSTODY: GLE ASSOCIATES, INC.		CHAIN OF CUSTODY: LABORATORY	
PACKAGED BY: Artiom Chacon		SAMPLES RECEIVED BY:	
DATE PACKAGED: January 8, 2020		DATE:	
METHOD OF TRANSMITTAL: FedEx		TIME:	
TRANSMITTED BY: FEDEX		CONDITION OF PACKAGE: SAMPLES:	
CHAIN OF CUSTODY: RETURNED TO GLE ASSOCIATES, INC.			
RECEIVED BY:		DATE:	
INVENTORIED BY:		DATE:	
REPACKAGED AND SEALED BY:		DATE:	
PAGE: / OF /			

APPENDIX B

Personnel and Laboratory Certifications



Ron DeSantis, Governor

Halsey Beshears, Secretary



STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

ASBESTOS LICENSING UNIT

THE ASBESTOS BUSINESS ORGANIZATION HEREIN IS LICENSED UNDER THE
 PROVISIONS OF CHAPTER 469, FLORIDA STATUTES

GLE ASSOCIATES INC

ROBERT BLAIR GREENE
 5405 CYPRESS CENTER DRIVE
 SUITE 110
 TAMPA FL 33609

LICENSE NUMBER: ZA0000034

EXPIRATION DATE: NOVEMBER 30, 2021

Always verify licenses online at MyFloridaLicense.com



Do not alter this document in any form.

This is your license. It is unlawful for anyone other than the licensee to use this document.



RICK SCOTT, GOVERNOR

JONATHAN ZACHEM, SECRETARY



STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
ASBESTOS LICENSING UNIT

THE ASBESTOS CONSULTANT - ENGINEER HEREIN IS LICENSED UNDER THE
 PROVISIONS OF CHAPTER 469, FLORIDA STATUTES

GREENE, ROBERT BLAIR

GLE ASSOCIATES INC
 5405 CYPRESS CENTER DR
 SUITE 110
 TAMPA FL 33609

LICENSE NUMBER: EA0000009

EXPIRATION DATE: NOVEMBER 30, 2020

Always verify licenses online at MyFloridaLicense.com



Do not alter this document in any form.

This is your license. It is unlawful for anyone other than the licensee to use this document.



GLE Associates, Inc. FL 49-0001218

5405 Cypress Center Drive ~ Suite 110 ~ Tampa, Florida 33609 ~ (813) 241-8350

certifies that

Artiom Chacon

has completed the requisite training for
ASBESTOS INSPECTOR REFRESHER
accreditation under TSCA Title II Course No.: FL 49-0002824

conducted on

July 13, 2019

at

TAMPA, FLORIDA

Certificate Number

6391

Passed Exam with score of 70% or better.

EPA Accreditation Expires: July 13, 2020

Instructor


GLE Associates, Inc.

United States Department of Commerce
National Institute of Standards and Technology



Certificate of Accreditation to ISO/IEC 17025:2005

NVLAP LAB CODE: 102003-0

GLE Associates, Inc.
Tampa, FL

*is accredited by the National Voluntary Laboratory Accreditation Program for specific services,
listed on the Scope of Accreditation, for:*

Asbestos Fiber Analysis

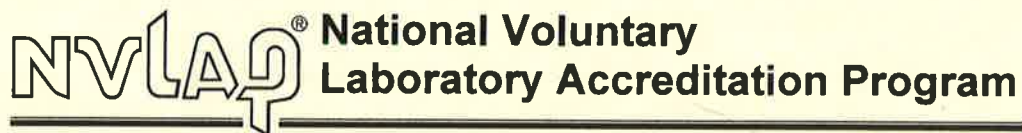
*This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005.
This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality
management system (refer to joint ISO-ILAC-IAF Communiqué dated January 2009).*

2019-04-01 through 2020-03-31

Effective Dates



For the National Voluntary Laboratory Accreditation Program



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

GLE Associates, Inc.
 5405 Cypress Center Drive
 Suite 110
 Tampa, FL 33609
 Mr. Darryl S. Neldner
 Phone: 813-241-8350 x247 Fax: 813-241-8737
 Email: dneldner@gleassociates.com
<http://www.gleassociates.com>

ASBESTOS FIBER ANALYSIS

NVLAP LAB CODE 102003-0

Bulk Asbestos Analysis

<u>Code</u>	<u>Description</u>
18/A01	EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples
18/A03	EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials

A handwritten signature in dark ink, appearing to read "Darryl S. Neldner".

For the National Voluntary Laboratory Accreditation Program

APPENDIX C

Photographs



Upper Photo: Exterior View of C4-3

Lower Photo: Interior View of C4-3 (AHU 7)

Photograph Date:
January 8, 2020

Prepared By:
GLE Associates, Inc.



Communicore AHU's 7 & 8

Job No.
20140-01875

Figure
1



Upper Photo: Exterior View of C4-2

Lower Photo: Interior View of C4-2 (AHU 8)

Photograph Date:
January 8, 2020

Prepared By:
GLE Associates, Inc.



Communicore AHU's 7 & 8

Job No.
20140-01875

Figure
2



Upper Photo: FP-01-Light Blue
Fireproofing

Lower Photo: M-01-Vibration Damper

Photograph Date:
January 8, 2020

Prepared By:
GLE Associates, Inc.



GLE

Communicore AHU's 7 & 8

Job No.
20140-01875

Figure
3



Upper Photo: M-02-Brown Caulk
Lower Photo: M-03-Black Gasket

Photograph Date:
January 8, 2020

Prepared By:
GLE Associates, Inc.

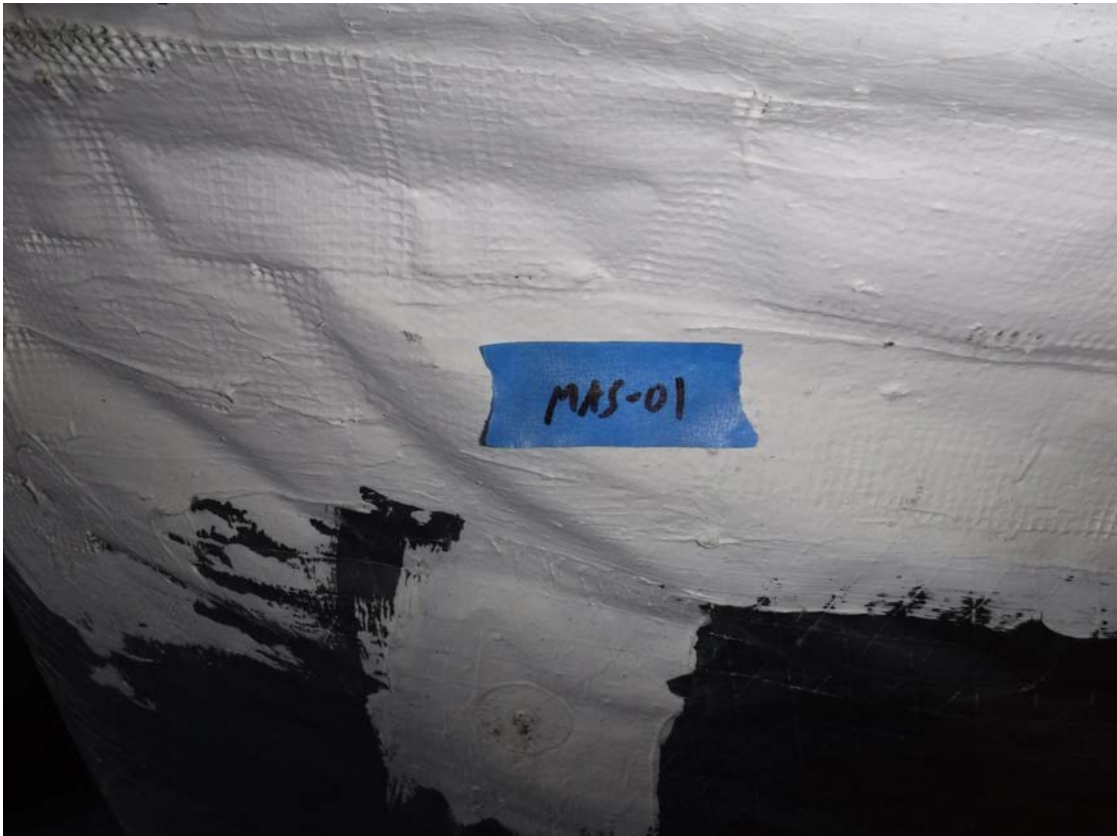


GLE

Communicore AHU's 7 & 8

Job No.
20140-01875

Figure
4



Upper Photo: M-04-Gray over White
Caulk

Lower Photo: MAS-01-White Duct
Mastic (Exterior of Ductwork)

Photograph Date:
January 8, 2020

Prepared By:
GLE Associates, Inc.



Communicore AHU's 7 & 8

Job No.
20140-01875

Figure
5



Upper Photo: MAS-02-White Duct
Mastic (Interior of Ductwork)

Lower Photo: TSI-01-White Mastic on
Foamglass with White Wrap

Photograph Date:
January 8, 2020

Prepared By:
GLE Associates, Inc.



GLE

Communicore AHU's 7 & 8

Job No.
20140-01875

Figure

6



Upper Photo: TSI-02-White Mastic on
Foamglass with White Wrap

Photograph Date:
January 8, 2020

Prepared By:
GLE Associates, Inc.



GLE

Communicore AHU's 7 & 8

Job No.
20140-01875

Figure
7