



University of Maryland

College Park, MD 20742

**STATE-OWNED
FACILITY
ASBESTOS
MANAGEMENT
PLAN**

FY 2019

Reviewed and Approved by:

A blue ink signature of Michael Stumpo, written over a horizontal line.

Michael Stumpo
Asbestos Program Manager

A blue ink signature of Maureen Kotlas, written over a horizontal line.

Maureen Kotlas
Executive Director
Environmental Safety, Sustainability
& Risk

A blue ink signature of Charles R. Reuning, written over a horizontal line.

Charles R. Reuning
Associate Vice President
Facilities Management

Program Personnel & Accreditations

Asbestos Program Manager:

Michael Stumpo
OSH Coordinator, Dept. of Environmental Safety,
Sustainability & Risk
(301) 405-3982

Inspector/Management Planner #17026861

Ronald Llobrera
Safety Specialist, Dept. of Environmental Safety,
Sustainability & Risk
(301) 405-7679

Asbestos Project Designers:

Vacant

Inspector/Management Planner # 19015951

Departmental (USM) Coordinator:

Katherine Cavanaugh
Manager, OSH & Loss Control, Dept. of
Environmental Safety, Sustainability & Risk
(301) 405-2887

Management Plan Prepared by:

Michael Stumpo
Coordinator, Dept. of Environmental Safety,
Sustainability & Risk
(301) 405-3982
Inspector/Management Planner #17026861

Physical Plant Manager:

Charles R. Reuning
Associate Vice President,
Facilities Management
(301) 405-2987

Facility Planner:

Arshad M. Mughal
Asst. Director-Capital Budgeting
Dept. of Facilities Management
(301) 405-3458

Department Planner:

Mark Beck
Director, Capital Planning at University System
3300 Metzert Road, Adelphi, MD 20783
(301) 445-1984

Building Inspectors:

Katherine Cavanaugh
Manager, OSH & Loss Control, Dept. of
Environmental Safety, Sustainability & Risk
(301) 405-2887
Inspector #17026831

Michael Stumpo
OSH Coordinator, Dept. of Environmental Safety,
Sustainability & Risk
(301) 405-3982

Accredited Supervisors as of 2019

Name	Department	Accreditation Number
Stefan Abresch	Facilities Management	18022001

Facility Asbestos Overview

Buildings Classed by Asbestos Content		No. of Buildings
Class A	Asbestos free	208
Class B	Miscellaneous ACM Only in Good Condition	94
Class C	Surfacing and/or Thermal ACM in Good Condition	108
Class C-1	Miscellaneous ACM with Moderate Damage	1
Class D	Surfacing and/or Thermal ACM w/ Moderate Damage	1
Class D-1	Miscellaneous ACM with Significant Damage	0
Class D-2	Surfacing and/or Thermal ACM with Significant Damage	1
Class X	Facilities with Unknown Asbestos Inventory/Conditions	76
Total Number of Buildings Without Restricted Areas		489

Restricted Areas	No. of Buildings
Due to asbestos damage/deterioration, the following areas are restricted, and access is limited to trained/medically monitored Level II employees using protective clothing and respirators.	4* (total: 5 areas)
Entire Buildings	0
Boiler Rooms	0
Crawl Spaces	0
Attics	0
Spaces between Ceiling Decks and Suspended Ceilings (048)	1
Pipe Chases (073, 089)	2
Steam Tunnels	0
Basements	0
Classroom/Office/Residential Areas	0
Auditorium/Cafeteria/Gym Areas	0
Other: Open topped walls (073)	1
Other: Beneath tiered seating decks (078)	1

* Four buildings (Building #: 048, 073, 078 and 089)

Inventories of asbestos materials at the University of Maryland, College Park are available at the Department of Environmental Safety, Sustainability & Risk (ESSR) web site:

https://essr.umd.edu/sites/essr.umd.edu/files/files/documents/Asbestos%20Inventory_0.pdf

Building Use Changes	
Demolished/Sold/Transferred:	No. of Buildings: (listed below)
None	0
Closed for Reasons Other than Asbestos	No. of Buildings
None	0
Out of State Facilities	
None	
Facilities Transferred as Long-Term Lease (not included in overview data)	
260 - Graduate Garden Apartment	261 - Graduate Garden Apartment
262 - Graduate Garden Apartment	263 - Graduate Garden Apartment
264 - Graduate Garden Apartment	265 - Graduate Garden Apartment
266 - Graduate Garden Apartment	267 - Graduate Garden Apartment
268 - Graduate Garden Apartment	269 - Graduate Garden Apartment
270 - Graduate Garden Apartment	271 - Graduate Garden Apartment
272 - Graduate Garden Apartment	273 - Graduate Garden Apartment
274 - Graduate Garden Apartment	275 - Graduate Garden Apartment
276 - Graduate Garden Apartment	277 - Graduate Garden Apartment
278 - Graduate Garden Apartment	279 - Graduate Garden Apartment
280 - Graduate Garden Apartment	281 - Graduate Garden Apartment
282 - Graduate Garden Apartment	283 - Graduate Garden Apartment
284 - Graduate Garden Apartment	285 - Graduate Garden Apartment
286 - Graduate Hills Apartment	287 - Graduate Hills Apartment
288 - Graduate Hills Apartment	289 - Graduate Hills Apartment
290 - Graduate Hills Apartment	291 - Graduate Hills Apartment
292 - Graduate Hills Apartment	383 - Paint Branch Building
407 - Samuel Riggs Alumni Center	710 - Wye Research Center - Office/Meeting Room
711 - Wye Research Center - Aspen Guest House	796 - Laboratory for Physical Sciences
802 - College Park Fire Station	974 - South Campus Commons 5
975 - South Campus Commons 6	981 - South Campus Commons 7
987 - Courtyard 100	988 - Courtyard 200
989 - Courtyard 300	990 - Courtyard 400
991 - Courtyard 500	992 - Courtyard 600
993 - Courtyard 700	994 - Courtyard Clubhouse
995 - Courtyard Maintenance Shed	996 - South Campus Commons 1
997 - South Campus Commons 2	998 - South Campus Commons 3
999 - South Campus Commons 4	

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Facilities Occupied by Lease (not included in overview data)	
902 - Leased Facility, 101 W. Dickman Street, Baltimore, MD	903 - Leased Facility, 5600 Rivertech Court, Riverdale, MD
904 - Leased Facility, 5801 University Research Ct., Riverdale, MD	905 - Leased Facility, 10400 Connecticut Avenue, Kensington, MD
906 - Executive Building, 7100 Baltimore Ave, College Park, MD	907 - Leased Facility, 6811 Kenilworth Avenue, Riverdale, MD
908 – Leased Facility, 8200 Baltimore Ave, College Park,	909 - Leased Facility, 8150 Baltimore Ave., College Park,
910 – Leased Facility, 9658 Baltimore Ave., College Park, MD	911 – Leased Facility, 5650 Rivertech Ct., Riverdale, MD
912 - Hartwick Building, 4321 Hartwick Rd, College Park, MD	913 – Leased Facility, 9222 Willow Lane, Adelphi, MD
916 - Leased Facility, College Park Professional Center, 4511 Knox Rd., College Park, MD	932 - Leased Facility, Opera House, Annapolis, MD
936 - Leased Facility, Ronald Reagan Building, Washington, DC	943 - Leased Facility, 1003 Twin Arch Road, Mt. Airy, MD
944 - Leased Facility, 10632 Little Patuxent Pkwy, Columbia, MD	950 - Leased Facility, 5825 University Research Court, Riverdale, MD
951 - Leased Facility, 5700 Rivertech Court, Riverdale, MD	952 - Leased Facility, 5701 Rivertech Court, Riverdale, MD
954 – Leased Facility, 4601 Calvert Road, College Park, MD	955 - Leased Facility, 1400 Sixteenth Street, Washington, DC
956 - Leased Facility, 4603 Calvert Rd, College Park, MD	957 - Leased Facility, 3711 Campus Drive College Park, MD

Asbestos Inventories

Inventories of asbestos materials at the University of Maryland, College Park are available at the Department of Environmental Safety, Sustainability & Risk web site:

https://essr.umd.edu/sites/essr.umd.edu/files/files/documents/Asbestos%20Inventory_0.pdf

Except for **Restricted Areas** referenced at page 3 of this document and as noted in the on-line facility inventories, all asbestos materials are maintained in **good condition** defined as “less than or equal to one percent damage or deterioration if the damage is evenly distributed (or less than or equal to one percent damage if localized).” The Environmental Protection Agency defines damage conditions in 40 CFR 763 as:

Surfacing Material:

“Friable surfacing ACM which has deteriorated or sustained physical injury such that the internal structure (cohesion) of the material is inadequate or which has delaminated such that its bond to the substrate (adhesion) is inadequate, or which, for any other reason, lacks fiber cohesion or adhesion qualities. Such damage or deterioration may be illustrated by the separation of ACM into layers; separation of ACM from the substrate; flaking, blistering, or crumbling of the ACM surface; water damage; significant or repeated water stains, scrapes, gouges, mars or other signs of physical injury on the ACM. Asbestos debris originating from the ACBM in question may also indicate damage.”

Thermal System Insulation:

“ACM on pipes, boilers, tanks, ducts, and other thermal system insulation equipment where the insulation has lost its structural integrity, or its covering, in whole or in part, is crushed, water-stained, gouged, punctured, missing, or not intact such that it is not able to contain fibers. Damage may be further illustrated by occasional punctures, gouges, or other signs of physical injury to ACM; occasional water damage on the protective coverings/jackets; or exposed ACM ends or joints. Asbestos debris originating from the ACBM in question may also indicate damage.”

Miscellaneous:

“ACM which has deteriorated or sustained physical injury such that the internal structure (cohesion) of the material is inadequate or, if applicable, which has delaminated such that its bond to the substrate (adhesion) is inadequate or which for any other reason lacks fiber cohesion or adhesion qualities. Such damage or deterioration may be illustrated by the separation of ACM into layers; separation of ACM from the substrate; flaking, blistering, or crumbling of the ACM surface; water damage; significant or repeated water stains, scrapes, gouges, mars or other signs of physical injury on the ACM. Asbestos debris originating from the ACBM in question may also indicate damage.”

UMD Asbestos inventories are intended to provide sufficient information to identify asbestos as it may impact normal maintenance activities. They do not provide all information necessary to identify asbestos materials for demolition or major renovation purposes. Demolition or major renovation work must be preceded by additional survey efforts conducted or coordinated by:

Glynis Bowman	Program Director FM Safety & Emergency Mgt.	(301) 405-2313
Stephen Reid	Construction Project Manager FM O&M Renovation Services	(301) 405-6910
Brian Trest	Manager FM O&M Incident Response	(301) 405-2222
Susan Gilson	Health & Safety Officer Residential Facilities	(301) 314-7527
Michael Stumpo	OSH Coordinator Environmental Safety, Sustainability & Risk	(301) 405-3982

All employees utilizing the UM asbestos inventories must receive Asbestos Level I training to understand terminology and limitations of the system. Materials that have been identified in inventories as asbestos-containing are listed by room. Quantities and asbestos composition are also noted. If materials have not been adequately assessed, they will be identified generally as Presumed Asbestos-Containing Materials (PACMs).

Any campus faculty, staff or student who removes, breaks, cuts into, drills or otherwise damages materials identified as ACM/PACM, or who contracts for such services, must be trained to assess building materials and insure appropriate work practices are implemented. For further information, concerning inventories or training, contact:

Environmental Safety, Sustainability & Risk
(301) 405-3960

Anticipated Renovation Projects (Non-Level II/Non-AOC)

FY20

Name of Building	Area	Type of Project	Asbestos in Area
SCUB I Renewal (Marie Mount Hall)	Upgrade the mechanical room, which serves as a regional SCUB.	Auxiliary Funded	None
H.J. Patterson Hall SCUB Upgrade	Upgrade and expand mechanical room 0242	State and Campus Funded	None

Facility Planner: Arshad M. Mughal	Department Planner: Michael Stumpo
Asbestos Program Manager: Michael Stumpo	Date: 09/30/2019

**Planned Renovation Projects, O&M and Emergency Responses
During FY19 that Involved Asbestos**

Building Name/No.	Area/Room No.	Asbestos Involved	Project Type	Start/Finish Date(s)
Animal Sciences No. 142	Mech Room 5141A/Boiler Breeching	40 TSI; 280 sf RACM; 775 sf CAT I; 50 sf CAT II	O&M	5/29/19 – 6/15/19
Asbestos Contractor	Retro Environmental		License No.: M21-24-107	
Geology No. 237	3110	360 sf of surface material		3/16/19 – 3/16/19
Asbestos Contractor	Retro Environmental		License No.: M21-24-107	
Art-Sociology No. 146	2203	760 sf FT & mastic	O&M	7/27/19 – 8/11/19
Asbestos Contractor	Retro Environmental		License No.: M21-24-107	
Benjamin No. 143	2101, 2102, 2119, 2121	2490 sf FT & mastic	O&M	7/5/19 – 7/7/19
Asbestos Contractor	Retro Environmental		License No.: M21-24-107	
Biology-Psychology No. 144	3111, 3111A, 3115, 3118	2180 FT & mastic	O&M	5/31/19 – 6/7/19 5/31/19 – 6/10/19
Asbestos Contractor	Retro Environmental		License No.: M21-24-107	
Chemical-Nuclear No. 090	2113	816 sf FT & mastic	O&M	5/31/19 – 6/7/19
Asbestos Contractor	Retro Environmental		License No.: M21-24-107	
Benjamin No. 143	0101, 0102	1400 sf FT & mastic	O&M	2/16/19 – 2/17/19
Asbestos Contractor	Retro Environmental		License No.: M21-24-107	
Chemical-Nuclear No. 090	1231	1000 sf FT & mastic	O&M	7/5/19 – 7/7/19
Asbestos Contractor	Retro Environmental		License No.: M21-24-107	
Biology-Psychology No. 144	4122, 4122A, 4128	2180 sf FT & mastic	O&M	5/31/19 – 6/10/19
Asbestos Contractor	Retro Environmental		License No.: M21-24-107	
Biology-Psychology No. 144	4223	2180 sf FT & mastic	O&M	5/31/19 – 6/10/19
Asbestos Contractor	Retro Environmental		License No.: M21-24-107	
Animal Sciences No. 142	3136, 3140, 3144	775 sf Ft & mastic; 2 fume hoods; 280 sf duct TSI; 40 lf TSI	O&M	5/28/19 – 6/15/19
Asbestos Contractor	Retro Environmental		License No.: M21-24-107	
Physics Building No. 182	1219	675 sf FT & mastic	O&M	12/26/19 – 12/28/19
Asbestos Contractor	Retro Environmental		License No.: M21-24-107	
Biology-Psychology No. 144	0107	1400 sf FT & mastic	O&M	3/19/19 – 3/20/19

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Asbestos Contractor	Retro Environmental		License No.: M21-24-107	
Benjamin No. 143	2304K	126 sf FT & mastic	Planned Renovation	1/26/19
Asbestos Contractor	Retro Environmental		License No.: M21-24-107	
Biology-Psychology No. 144	1201	90 sf FT & mastic	Planned Renovation	1/26/19
Asbestos Contractor	Retro Environmental		License No.: M21-24-107	
Atlantic No. 242	0102	1 SF duct insulation	O&M	1/18/19
Asbestos Contractor	Retro Environmental		License No.: M21-24-107	
Preinkert Hall No. 054	1213, 1213A, 1211, 1211A	740 sf FT & mastic; 480 sf chalkboard & glue dots	O&M	2/22/19 – 2/24/19
Asbestos Contractor	Retro Environmental		License No.: M21-24-107	
Marie Mount No. 043	3304C	210 sf FT & mastic	O&M	10/6/19
Asbestos Contractor	Retro Environmental		License No.: M21-24-107	
Kirwan Hall No. 084	B0499	1200 sf Ft & mastic	Planned Renovation	11/17/19 – 11/18/19
Asbestos Contractor	Retro Environmental		License No.: M21-24-107	
Hornbake Library No. 147	2198	540 sf Ft & mastic	Planned Renovation	11/17/19 – 11/18/19
Asbestos Contractor	Retro Environmental		License No.: M21-24-107	
Tydings Hall No. 042	4101A	313 sf FT & mastic	O&M	10/13/19 – 10/14/19
Asbestos Contractor	Retro Environmental		License No.: M21-24-107	
Kirwan Hall No. 084	3107	200 sf FT & mastic	O&M	11/17/19
Asbestos Contractor	Retro Environmental		License No.: M21-24-107	
Symons Hall No. 076	3300	1300 sf FT & mastic	Planned Renovation	7/7/19 – 7/8/19
Asbestos Contractor	Retro Environmental		License No.: M21-24-107	
Physics No. 182	4300	3500 sf FT & mastic; 100 sf duct TSI; 50 lf TSI; mastic patties; seam sealer	Planned Renovation	11/5/19 – 11/16/19
Asbestos Contractor	Retro Environmental		License No.: M21-24-107	
Animal Sciences No. 142	2123	4 lf pipe TSI	O&M	12/5/19
Asbestos Contractor	Retro Environmental		License No.: M21-24-107	
Tydings Hall No. 042	3147D	3 lf pipe TSI; 3 pipe fittings	O&M	1/26/19
Asbestos Contractor	Retro Environmental		License No.: M21-24-107	
Tydings Hall No. 042	3140M, 3104L	5 pipe elbows	O&M	3/3/19

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Asbestos Contractor	Waco, Inc.		License No.: M48-00-002	
Woods Hall No. 047	1101	387 sf FT & mastic	Planned Renovation	12/20/19
Asbestos Contractor	ACM Services, Inc.		License No.: M21-15-094	
Preinkert Hall No. 054	1217	336 sf FT & mastic	O&M	9/26/18
Asbestos Contractor	Waco, Inc.		License No.: M48-00-002	
LeFrak Hall No. 038	0214	931 sf mastic	Planned Renovation	8/20/18 – 8/24/18
Asbestos Contractor	ACM Services, Inc.		License No.: M21-15-094	
Taliaferro Hall No. 043	0111	2 lf TSI w/ black mastic	O&M	
Asbestos Contractor	Waco, Inc.		License No.: M48-00-002	
Marie Mount Hall No. 046	3209B	140 sf FT & mastic	O&M	10/27/18
Asbestos Contractor	Waco, Inc.		License No.: M48-00-002	
Symons Hall No. 076	2104	156 sf FT & mastic; 12 sf chalkboard mastic	Planned Renovation	10/22/18
Asbestos Contractor	SanDow Construction, Inc.		License No.: M21-16-594	
Symons Hall No. 076	0126	189 sf FT & mastic	Planned Renovation	10/1/18
Asbestos Contractor	SanDow Construction, Inc		License No.: M21-16-594	
Turner Hall No. 079	2101, 3103	23 sf FT & mastic	Planned Renovation	8/3/18
Asbestos Contractor	ACM Services, Inc.		License No.: M21-15-094	
Physics Building No. 082	2308, 2314, 2316, 2322, 2334, 2338, 2342, 2214	1152 sf FT & mastic	Planned Renovation	8/20/18 – 8/24/18
Asbestos Contractor	ACM Services, Inc.		License No.: M21-15-094	
Physics Building No. 082	4307, 4309, 4311, 4313, 4315, 4317, 4319, 4321, 4323, 4325, 4327, 4329, 4331, 4333, 4337, 4337A, 4397, 4341	4120 sf FT & mastic	Planned Renovation	11/5/18 – 11/15/18
Asbestos Contractor	Retro Environmental		License No.: M21-24-107	
Physics Building No. 082	2224	35 lf pipe TSI	O&M	8/29/18
Asbestos Contractor	Retro Environmental		License No.: M21-24-107	
Physics Building No. 082	1219	676 sf FT & mastic	Planned Renovation	12/26/18 – 12/27/18

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Asbestos Contractor	Retro Environmental		License No.: M21-24-107	
Physics Building No. 082	0204B	40 lf pipe TSI	O&M	12/5/18
Asbestos Contractor	Retro Environmental		License No.: M21-24-107	
Kirwan Hall No. 084	B0499	1200 sf FT & mastic	Planned Renovation	11/17/18 – 11/18/18
Asbestos Contractor	Retro Environmental		License No.: M21-24-107	
Kirwan Hall No. 084	3107	200 sf FT & mastic	Planned Renovation	11/17/18
Asbestos Contractor	Retro Environmental		License No.: M21-24-107	
Chemistry-Nuclear No. 090	1124	160 sf FT & mastic	Planned Renovation	8/9/18
Asbestos Contractor	ACM Services, Inc.		License No.: M21-15-094	
Animal Sciences No. 142	2123	4 pipe fittings	O&M	12/5/18
Asbestos Contractor	Retro Environmental		License No.: M21-24-107	
Benjamin Building No. 143	0101, 0101A, 0101B, 0101C, 0102, 0102A, 0102B, 0102C, 0102D	1350 sf FT & mastic	Planned Renovation	2/16/19 – 2/17/19
Asbestos Contractor	Retro Environmental		License No.: M21-24-107	
Benjamin Building No. 143	2304K	126 sf FT & mastic	Planned Renovation	1/26/19
Asbestos Contractor	Retro Environmental		License No.: M21-24-107	
Biology-Psychology No. 144	0107	1300 sf FT & mastic	Planned Renovation	3/19/19 – 3/20/19
Asbestos Contractor	Retro Environmental		License No.: M21-24-107	
Biology-Psychology No. 144	1201	90 sf FT & mastic	Planned Renovation	1/26/19
Asbestos Contractor	Retro Environmental		License No.: M21-24-107	
Leonardtwn Office Building No. 201	1200D	300 sf FT & mastic	O&M	7/24/18 - 7/25/18
Asbestos Contractor	Retro Environmental		License No.: M21-24-107	
Atlantic Building No. 224	0102	1 sf Duct Insulation	O&M	1/18/19
Asbestos Contractor	Retro Environmental		License No.: M21-24-107	
Geology Building No. 237	3110	360 sf FT & mastic; 75 sf fume hood	Planned Renovation	3/16/19 – 3/17/19
Asbestos Contractor	Retro Environmental		License No.: M21-24-107	
Leonardtwn Hall No. 240	Apt. 01	100 sf drywall w/ mastic	Planned Renovation	10/17/18 – 10/20/18
Asbestos Contractor	SanDow Construction, Inc.		License No.: M21-16-594	
Leonardtwn Hall No. 240	Apt. 07	100 sf drywall w/ mastic	Planned Renovation	9/21/18

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Asbestos Contractor	SanDow Construction, Inc.		License No.:	
Biomolecular Sciences Building No. 296	2104B	10 sf transite boards	O&M	12/11/18
Asbestos Contractor	Waco, Inc.		License No.: M48-00-002	

Money Spent on In-House Asbestos Work

Month	FY Year	Supplies	Labor	Equipment	Total
July	2019	0	0	0	0
August	2019	0	0	0	0
September	2019	0	0	0	0
October	2019	0	0	0	0
November	2019	0	0	0	0
December	2019	0	0	0	0
January	2019	0	0	0	0
February	2019	0	0	0	0
March	2019	0	0	0	0
April	2019	0	0	0	0
May	2019	0	0	0	0
June	2019	0	0	0	0
Total		0	0	0	0

Comment: licensed asbestos contractors performed all asbestos work during FY19.

Equipment Usage and Maintenance System

Sampling by OSH / contractors to perform any use of equipment

Asbestos related equipment usage and maintenance will be under the direction of the individuals identified below who have responsibilities within their respective organizations:

ESSR

Michael Stumpo

OSH Coordinator

(301) 405-3982

Asbestos related equipment is kept in the following locations:

- Respirators – Individually assigned and maintained by qualified employees at their primary work locations.
- Air Sampling Equipment – Seneca Building, ESSR Office, Room 0103

Employees who need access to equipment must have the following:

1. Current medical approval for asbestos work and respirator usage (through the Occupational Health Unit at the University Health Center),
2. Received respirator training within the previous twelve months, and
3. Demonstrated acceptable respirator fit-testing within the previous twelve months.

The individual identified above is responsible for ensuring that users of asbestos-related equipment meet these criteria.

Employees who need access to equipment and supplies shall use the following procedures:

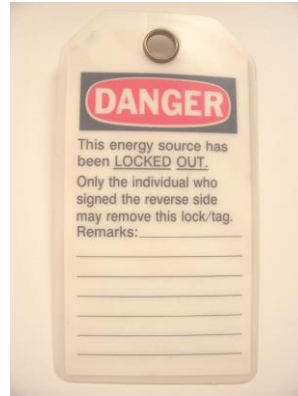
Contact Michael Stumpo at (301) 405-3982 for equipment access by ESSR personnel.

Equipment must be checked by the user to determine if it is in safe operating condition. Anytime the equipment is not in safe operating condition, the user will tag the equipment out of service and notify:

Michael Stumpo at (301) 405-3982

The following tag-out procedure will be used in accordance with OSHA Standards 29 CFR 1910.147 and 1920.333:

The equipment shall be marked with the following tag



If it is determined that the equipment cannot be repaired, it will be promptly discarded

Routine maintenance is performed according to the manufacturer's recommendations by:

Michael Stumpo

OSH Coordinator

(301) 405-3982

Copies of the manufacturer's user manual, maintenance manual, and/or operating and maintenance procedures developed by the facility as either a supplement or alternative to the manufacturer's recommendations are kept by:

Michael Stumpo

OSH Coordinator

(301) 405-3982

and located at the:

Seneca Building - Environmental Safety, Sustainability & Risk Office, Room 0103

The following procedures will be used to ensure that each piece of equipment is serviced according to a preventive maintenance schedule set by the manufacturer or empirically through actual experience:

Manufacturers' maintenance procedures are followed. In addition, equipment is checked prior to use.

Equipment Inventory Summary

Equipment Item	Age or Year Obtained	Period Between Maintenance	Last Date Inspected	Functional?	Life Cycle
ESSR: EURO-CLEAN 930-H HEPA Vacuum	2011	as necessary	before each use	yes	10 years
Plans for Replacement/Overhaul including funding.	Items will be replaced at end of functional life cycle. Funds are available.				
Respirators provided per necessity					
Plans for Replacement/Overhaul including funding.	Items will be replaced at end of functional life cycle or when major repair is necessary. Funds are available.				
ESSR Air Sampling Pumps: GAST High Vol. (4 ea.) Buck High Vol. (1 ea.) Buck Personal (5 ea.)	1990-2016	as necessary	before each use	yes	not determined
Plans for Replacement/Overhaul including funding.	Items will be replaced when repairs are no longer cost effective. Funds are available.				

Emergency Response System

An emergency response plan is designed to anticipate and plan for unexpected asbestos fiber release episodes so that fiber release is minimized through prompt corrective action.

The emergency response contact persons are:

Glynnis Bowman	Facilities Management – Program Director	(301) 405-2313
Stephen Reid	Facilities Management – Project Manager	(301) 405-6910
Brian Trest	Facilities Management – Manager, Incident Response Unit	(301) 405-2222
Susan Gilson	Residential Facilities – Health & Safety Officer	(301) 314-7527
Patrick Rhodes	Residential Facilities – Assistant to Assistant Director	(301) 314-3486
Andrew Van Der Stuyf	Residential Facilities – Assistant Director, Project Manager	(301) 314-7512

The back-up contact persons are:

On-call OSH representative (24-hour response)	ESSR – Occupational Safety and Health	(301) 405-3960
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Other than restricting access to the area and evacuating it, personnel in the area are to take no other action after contacting the emergency response contact person. The emergency response contact person will direct the initial response; including ensuring that actions are taken as necessary (e.g., debris clean up, patch and repair, etc.) and that, the project is designed by an accredited project designer if necessary.

“Emergency response actions will be performed by licensed asbestos abatement companies, contracted by Facilities Management and/or Residential Facilities.

If a more extensive hazard assessment is required after the initial response, it will be performed or coordinated by the emergency personnel listed in this section.

The accredited project designer that this facility will use is:

Accredited project designers employed by the following contract asbestos abatement companies	
ACM Services, Inc.	301-230-2822
SanDow Construction, Inc.	301-322-1446
Retro Environmental	410-552-9301
WACO Environmental, Inc.	301-290-1333

or

A professional contracted from qualified industrial hygiene firms or licensed asbestos abatement companies.

Waste Storage and Disposal Program

The purpose of a waste disposal program is to prevent asbestos exposure/contamination by incorrect handling of asbestos waste. It also serves to document what happens to the ACM waste from the time that it is generated until it is buried in an approved landfill.

Asbestos wastes are normally disposed of by abatement contractors at the conclusion of each abatement activity performed. Stored materials are presently limited to intact fire doors (the only suspect material routinely handled by University personnel), plus contaminated personal protective equipment and other suspect materials occasionally deposited by accredited personnel with asbestos program management responsibilities.

Management:

Asbestos Waste Storage and Disposal Operations will be managed in accordance with COMAR 26.11.21, & Asbestos Program Policy by:

Stephen Reid FM Project Manager (301) 405-6910

Landfill selection and waste shipment coordination is managed by:

Stephen Reid FM Project Manager (301) 405-6910

Chain of Custody manifests are kept at:

Bldg. 810, FM Hazardous Materials Abatement Manager’s Office

and are maintained by:

Stephen Reid FM Project Manager (301) 405-6910

Procedures used to handle waste are:

- Double-bagged/double sealed asbestos waste is transported on campus property in enclosed vehicles to storage site.
- Any damaged or leaking containers are immediately repaired when observed by Level II employees.
- Dumpster is secured within a locked compound to prevent public access.
- When quantity of waste approached 20 cubic yards, arrangements are made by the FM Hazardous Materials Abatement Manager for shipment.

Waste Storage Inventory	Date	Quantity
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Quantity of asbestos waste stored as of	7/1/18	0.0 cubic yards
Quantity of asbestos waste generated during reporting period		~203.78 cubic yards reported
Quantity of asbestos waste disposed during reporting period		~203.78 cubic yards reported
Quantity of asbestos waste still in storage as of	6/30/19	0.0 cubic yards

Disposal Record for Period

Location	Date	Amount	Type	Hauler	Landfill, Location (permit #)
Hagerstown Hall	6/26/2018	16	Bags	Service Transport Group New Castle, DE 19720	Minerva Landfill Waynesburg, OH 44688 # P0104984
Hagerstown Hall	6/26/2018	3	Drums	Service Transport Group New Castle, DE 19720	Minerva Landfill Waynesburg, OH 44688 # P0104984
Leonardtown Office Building	8/1/2018	7	Bags	Service Transport Group New Castle, DE 19720	Minerva Landfill Waynesburg, OH 44688 # P0104984
Leonardtown Office Building	8/1/2018	3	Drums	Service Transport Group New Castle, DE 19720	Minerva Landfill Waynesburg, OH 44688 # P0104984
Turner Hall	8/13/2018	132	Bags	Service Transport Group New Castle, DE 19720	Minerva Landfill Waynesburg, OH 44688 # P0104984
School of Public Health	8/20/2018	4	Bundles	Service Transport Group New Castle, DE 19720	Minerva Landfill Waynesburg, OH 44688 # P0104984
Physics Building	9/13/2018	14	Bags	Service Transport Group New Castle, DE 19720	Minerva Landfill Waynesburg, OH 44688 # P0104984
Preinkert Hall	9/26/2018	80	Bags	EWSI / Owen Trucking Chantilly, VA 20151	Amelia Landfill Jetersville, VA # 540
Taliaferro Hall	9/29/2018	2	Bags	EWSI / Owen Trucking Chantilly, VA 20151	Amelia Landfill Jetersville, VA # 540
Marie Mount Hall	10/10/2018	7	Bags	Service Transport Group New Castle, DE 19720	Minerva Landfill Waynesburg, OH 44688 # P0104984
Taliaferro Hall	10/10/2018	10	Bags	Service Transport Group New Castle, DE 19720	Minerva Landfill Waynesburg, OH 44688 # P0104984

Location	Date	Amount	Type	Hauler	Landfill, Location (permit #)
Taliaferro Hall	10/10/2018	3	Drums	Service Transport Group New Castle, DE 19720	Minerva Landfill Waynesburg, OH 44688 # P0104984
Lee Building	10/16/2018	1	Bags	Service Transport Group New Castle, DE 19720	Minerva Landfill Waynesburg, OH 44688 # P0104984
Marie Mount Hall	10/27/2018	28	Bags	EWSI / Owen Trucking Chantilly, VA 20151	Amelia Landfill Jetersville, VA # 540
Taliaferro Hall	11/9/2018	10	Bags	EWSI / Owen Trucking Chantilly, VA 20151	Amelia Landfill Jetersville, VA # 540
JM Patterson	11/15/2018	13	Bags	Service Transport Group New Castle, DE 19720	Minerva Landfill Waynesburg, OH 44688 # P0104984
Benjamin Building	11/29/2018	16	Bags	Service Transport Group New Castle, DE 19720	Minerva Landfill Waynesburg, OH 44688 # P0104984
Benjamin Building	11/29/2018	5	Drums	Service Transport Group New Castle, DE 19720	Minerva Landfill Waynesburg, OH 44688 # P0104984
Benjamin Building	12/5/2018	1	Bags	Service Transport Group New Castle, DE 19720	Minerva Landfill Waynesburg, OH 44688 # P0104984
Benjamin Building	12/5/2018	1	Drums	Service Transport Group New Castle, DE 19720	Minerva Landfill Waynesburg, OH 44688 # P0104984
Biomolecular Sciences Building	12/11/2018	6	Bags	EWSI / Owen Trucking Chantilly, VA 20151	Amelia Landfill Jetersville, VA # 540
Physics Building	12/20/2018	18	Bags	Service Transport Group New Castle, DE 19720	Minerva Landfill Waynesburg, OH 44688 # P0104984
Kirwin Hall	1/4/2019	166	Bags	EWSI / Owen Trucking Chantilly, VA 20151	Amelia Landfill Jetersville, VA # 540
Woods Hall	1/7/2019	60	Bags	Service Transport Group New Castle, DE 19720	Minerva Landfill Waynesburg, OH 44688 # P0104984
Animal Sciences Building	1/8/2019	7	Bags	Service Transport Group New Castle, DE 19720	Minerva Landfill Waynesburg, OH 44688 # P0104984

Location	Date	Amount	Type	Hauler	Landfill, Location (permit #)
Animal Sciences Building	1/8/2019	19	Drums	Service Transport Group New Castle, DE 19720	Minerva Landfill Waynesburg, OH 44688 # P0104984
Physics Building	1/8/2019	7	Bags	Service Transport Group New Castle, DE 19720	Minerva Landfill Waynesburg, OH 44688 # P0104984
Physics Building	1/8/2019	19	Drums	Service Transport Group New Castle, DE 19720	Minerva Landfill Waynesburg, OH 44688 # P0104984
Physics Building	1/9/2019	2	Bags	EWSI / Owen Trucking Chantilly, VA 20151	Amelia Landfill Jetersville, VA # 540
Architecture Building	1/11/2019	65	Bags	Service Transport Group New Castle, DE 19720	Minerva Landfill Waynesburg, OH 44688 # P0104984
Physics Building	1/12/2019	25	Bags	EWSI / Owen Trucking Chantilly, VA 20151	Amelia Landfill Jetersville, VA # 540
Marie Mount Hall	1/13/2019	75	Bags	EWSI / Owen Trucking Chantilly, VA 20151	Amelia Landfill Jetersville, VA # 540
Marie Mount Hall	1/15/2019	19	Bags	EWSI / Owen Trucking Chantilly, VA 20151	Amelia Landfill Jetersville, VA # 540
Atlantic Building	1/21/2019	3	Bags	Service Transport Group New Castle, DE 19720	Minerva Landfill Waynesburg, OH 44688 # P0104984
Benjamin Building	1/30/2019	8	Bags	Service Transport Group New Castle, DE 19720	Minerva Landfill Waynesburg, OH 44688 # P0104984
Benjamin Building	1/30/2019	3	Drums	Service Transport Group New Castle, DE 19720	Minerva Landfill Waynesburg, OH 44688 # P0104984
Bio-Psych Building	1/30/2019	6	Bags	Service Transport Group New Castle, DE 19720	Minerva Landfill Waynesburg, OH 44688 # P0104984
Bio-Psych Building	1/30/2019	1	Drums	Service Transport Group New Castle, DE 19720	Minerva Landfill Waynesburg, OH 44688 # P0104984
Benjamin Building	2/26/2019	38	Bags	Service Transport Group New Castle, DE 19720	Minerva Landfill Waynesburg, OH 44688 # P0104984

Location	Date	Amount	Type	Hauler	Landfill, Location (permit #)
Benjamin Building	2/26/2019	14	Drums	Service Transport Group New Castle, DE 19720	Minerva Landfill Waynesburg, OH 44688 # P0104984
Preinkert Hall	2/26/2019	20	Bags	Service Transport Group New Castle, DE 19720	Minerva Landfill Waynesburg, OH 44688 # P0104984
Preinkert Hall	2/26/2019	18	Drums	Service Transport Group New Castle, DE 19720	Minerva Landfill Waynesburg, OH 44688 # P0104984
Tydings Hall	3/1/2019	6	Bags	EWSI / Owen Trucking Chantilly, VA 20151	Amelia Landfill Jetersville, VA # 540
Marie Mount Hall	3/17/2019	169	Bags	EWSI / Owen Trucking Chantilly, VA 20151	Amelia Landfill Jetersville, VA # 540
La Plata Hall	3/17/2019	8	Bags	EWSI / Owen Trucking Chantilly, VA 20151	Amelia Landfill Jetersville, VA # 540
Marie Mount Hall	3/17/2019	169	Bags	EWSI / Owen Trucking Chantilly, VA 20151	Amelia Landfill Jetersville, VA # 540
Bio-Psych Building	3/25/2019	14	Bags	Service Transport Group New Castle, DE 19720	Minerva Landfill Waynesburg, OH 44688 # P0104984
Bio-Psych Building	3/25/2019	10	Drums	Service Transport Group New Castle, DE 19720	Minerva Landfill Waynesburg, OH 44688 # P0104984
Geology Building	3/25/2019	8	Bags	Service Transport Group New Castle, DE 19720	Minerva Landfill Waynesburg, OH 44688 # P0104984
Geology Building	3/25/2019	5	Drums	Service Transport Group New Castle, DE 19720	Minerva Landfill Waynesburg, OH 44688 # P0104984
Atlantic Building	3/28/2019	8	Bags	EWSI / Owen Trucking Chantilly, VA 20151	Amelia Landfill Jetersville, VA # 540
Atlantic Building	4/4/2019	3	Bags	EWSI / Owen Trucking Chantilly, VA 20151	Amelia Landfill Jetersville, VA # 540
JM Patterson	4/11/2019	3	Bags	EWSI / Owen Trucking Chantilly, VA 20151	Amelia Landfill Jetersville, VA # 540

Location	Date	Amount	Type	Hauler	Landfill, Location (permit #)
Reckord Armory	5/27/2019	8	Bags	EWSI / Owen Trucking Chantilly, VA 20151	Amelia Landfill Jetersville, VA # 540
Animal Sciences Building	6/5/2019	29	Bags	Service Transport Group New Castle, DE 19720	Minerva Landfill Waynesburg, OH 44688 # P0104984
Animal Sciences Building	6/5/2019	16	Drums	Service Transport Group New Castle, DE 19720	Minerva Landfill Waynesburg, OH 44688 # P0104984
Animal Sciences Building	6/5/2019	35	Bundles	Service Transport Group New Castle, DE 19720	Minerva Landfill Waynesburg, OH 44688 # P0104984
Bio-Psych Building	6/5/2019	9	Bags	Service Transport Group New Castle, DE 19720	Minerva Landfill Waynesburg, OH 44688 # P0104984
Bio-Psych Building	6/5/2019	10	Drums	Service Transport Group New Castle, DE 19720	Minerva Landfill Waynesburg, OH 44688 # P0104984
Bio-Psych Building	6/5/2019	16	Bags	Service Transport Group New Castle, DE 19720	Minerva Landfill Waynesburg, OH 44688 # P0104984
Bio-Psych Building	6/5/2019	12	Drums	Service Transport Group New Castle, DE 19720	Minerva Landfill Waynesburg, OH 44688 # P0104984
Chem-Nuke Building	6/5/2019	26	Bags	Service Transport Group New Castle, DE 19720	Minerva Landfill Waynesburg, OH 44688 # P0104984
Chem-Nuke Building	6/5/2019	14	Drums	Service Transport Group New Castle, DE 19720	Minerva Landfill Waynesburg, OH 44688 # P0104984
Chem-Nuke Building	6/5/2019	26	Bags	Service Transport Group New Castle, DE 19720	Minerva Landfill Waynesburg, OH 44688 # P0104984
Chem-Nuke Building	6/5/2019	14	Drums	Service Transport Group New Castle, DE 19720	Minerva Landfill Waynesburg, OH 44688 # P0104984
Physics Building	6/9/2019	370	Bags	EWSI / Owen Trucking Chantilly, VA 20151	Amelia Landfill Jetersville, VA # 540
Animal Sciences Building	6/11/2019	28	Bags	Service Transport Group New Castle, DE 19720	Minerva Landfill Waynesburg, OH 44688 # P0104984

Location	Date	Amount	Type	Hauler	Landfill, Location (permit #)
Animal Sciences Building	6/11/2019	1	Drums	Service Transport Group New Castle, DE 19720	Minerva Landfill Waynesburg, OH 44688 # P0104984
Bio-Psych Building	6/11/2019	8	Bags	Service Transport Group New Castle, DE 19720	Minerva Landfill Waynesburg, OH 44688 # P0104984
Bio-Psych Building	6/11/2019	8	Bags	Service Transport Group New Castle, DE 19720	Minerva Landfill Waynesburg, OH 44688 # P0104984
Bio-Psych Building	6/11/2019	2	Drums	Service Transport Group New Castle, DE 19720	Minerva Landfill Waynesburg, OH 44688 # P0104984
Bio-Psych Building	6/11/2019	33	Bags	Service Transport Group New Castle, DE 19720	Minerva Landfill Waynesburg, OH 44688 # P0104984
Bio-Psych Building	6/11/2019	12	Drums	Service Transport Group New Castle, DE 19720	Minerva Landfill Waynesburg, OH 44688 # P0104984
Bio-Psych Building	6/11/2019	42	Bundles	Service Transport Group New Castle, DE 19720	Minerva Landfill Waynesburg, OH 44688 # P0104984
Chem-Nuke Building	6/11/2019	28	Bags	Service Transport Group New Castle, DE 19720	Minerva Landfill Waynesburg, OH 44688 # P0104984
Chem-Nuke Building	6/11/2019	14	Drums	Service Transport Group New Castle, DE 19720	Minerva Landfill Waynesburg, OH 44688 # P0104984
Chem-Nuke Building	6/11/2019	28	Bags	Service Transport Group New Castle, DE 19720	Minerva Landfill Waynesburg, OH 44688 # P0104984
Chem-Nuke Building	6/11/2019	14	Drums	Service Transport Group New Castle, DE 19720	Minerva Landfill Waynesburg, OH 44688 # P0104984
Animal Sciences Building	6/19/2019	19	Bags	Service Transport Group New Castle, DE 19720	Minerva Landfill Waynesburg, OH 44688 # P0104984
Animal Sciences Building	6/19/2019	1	Drums	Service Transport Group New Castle, DE 19720	Minerva Landfill Waynesburg, OH 44688 # P0104984
Benjamin Building	7/9/2019	66	Bags	Service Transport Group New Castle, DE 19720	Minerva Landfill Waynesburg, OH 44688 # P0104984

Location	Date	Amount	Type	Hauler	Landfill, Location (permit #)
Benjamin Building	7/9/2019	28	Drums	Service Transport Group New Castle, DE 19720	Minerva Landfill Waynesburg, OH 44688 # P0104984
Chem-Nuke Building	7/9/2019	12	Bags	Service Transport Group New Castle, DE 19720	Minerva Landfill Waynesburg, OH 44688 # P0104984
Chem-Nuke Building	7/9/2019	12	Drums	Service Transport Group New Castle, DE 19720	Minerva Landfill Waynesburg, OH 44688 # P0104984
Chem-Nuke Building	7/9/2019	9	Bundles	Service Transport Group New Castle, DE 19720	Minerva Landfill Waynesburg, OH 44688 # P0104984
Symons Hall	7/12/2019	28	Bags	Service Transport Group New Castle, DE 19720	Minerva Landfill Waynesburg, OH 44688 # P0104984
Symons Hall	7/12/2019	9	Drums	Service Transport Group New Castle, DE 19720	Minerva Landfill Waynesburg, OH 44688 # P0104984
Chem-Nuke Building	7/19/2019	3	Bags	Service Transport Group New Castle, DE 19720	Minerva Landfill Waynesburg, OH 44688 # P0104984
Chem-Nuke Building	7/19/2019	2	Drums	Service Transport Group New Castle, DE 19720	Minerva Landfill Waynesburg, OH 44688 # P0104984
Chem-Nuke Building	7/19/2019	1	Bundles	Service Transport Group New Castle, DE 19720	Minerva Landfill Waynesburg, OH 44688 # P0104984
Art-Sociology	8/16/2019	12	Bags	Service Transport Group New Castle, DE 19720	Minerva Landfill Waynesburg, OH 44688 # P0104984
Art-Sociology	8/16/2019	1	Drums	Service Transport Group New Castle, DE 19720	Minerva Landfill Waynesburg, OH 44688 # P0104984
Marie Mount Hall	10/10/2019	10	Bags	Service Transport Group New Castle, DE 19720	Minerva Landfill Waynesburg, OH 44688 # P0104984
Marie Mount Hall	10/10/2019	2	Drums	Service Transport Group New Castle, DE 19720	Minerva Landfill Waynesburg, OH 44688 # P0104984
Marie Mount Hall	10/10/2019	7	Bags	Service Transport Group New Castle, DE 19720	Minerva Landfill Waynesburg, OH 44688 # P0104984

Location	Date	Amount	Type	Hauler	Landfill, Location (permit #)
Marie Mount Hall	10/10/2019	3	Drums	Service Transport Group New Castle, DE 19720	Minerva Landfill Waynesburg, OH 44688 # P0104984
Tydings Hall	10/16/2019	10	Bags	Service Transport Group New Castle, DE 19720	Minerva Landfill Waynesburg, OH 44688 # P0104984
Tydings Hall	10/16/2019	4	Drums	Service Transport Group New Castle, DE 19720	Minerva Landfill Waynesburg, OH 44688 # P0104984
Tydings Hall	10/16/2019	10	Bags	Service Transport Group New Castle, DE 19720	Minerva Landfill Waynesburg, OH 44688 # P0104984
Hornbake Library	11/21/2019	13	Bags	Service Transport Group New Castle, DE 19720	Minerva Landfill Waynesburg, OH 44688 # P0104984
Hornbake Library	11/21/2019	9	Drums	Service Transport Group New Castle, DE 19720	Minerva Landfill Waynesburg, OH 44688 # P0104984
Kirwin Hall	11/21/2019	70	Bags	Service Transport Group New Castle, DE 19720	Minerva Landfill Waynesburg, OH 44688 # P0104984
Kirwin Hall	11/21/2019	20	Drums	Service Transport Group New Castle, DE 19720	Minerva Landfill Waynesburg, OH 44688 # P0104984
Kirwin Hall	11/21/2019	10	Bags	Service Transport Group New Castle, DE 19720	Minerva Landfill Waynesburg, OH 44688 # P0104984
Kirwin Hall	11/21/2019	4	Drums	Service Transport Group New Castle, DE 19720	Minerva Landfill Waynesburg, OH 44688 # P0104984
Physics Building	11/21/2019	26	Bags	Service Transport Group New Castle, DE 19720	Minerva Landfill Waynesburg, OH 44688 # P0104984
Physics Building	11/21/2019	39	Drums	Service Transport Group New Castle, DE 19720	Minerva Landfill Waynesburg, OH 44688 # P0104984
Physics Building	11/21/2019	22	Bundles	Service Transport Group New Castle, DE 19720	Minerva Landfill Waynesburg, OH 44688 # P0104984

Further Information/Comments:

None

Notification System

A notification program is designed to do two things:

1. Inform maintenance workers and custodial workers of what they need to know to be able to work safely in a building that contains ACM.
2. Inform building occupants on how to work safely in a building that contains ACM and let them know what precautions are already being taken.

General maintenance and custodial workers working in areas with ACM with a high potential for disturbance are informed of asbestos locations through the following methods:

Employees are provided Asbestos Awareness Training (Level I) at initial hire and annually thereafter. Portion of training includes identification of ACM/PACM and availability/use of on-line asbestos inventories. Caution signs are posted inside mechanical rooms of buildings where asbestos materials have been identified warning of presence of material. Employees are advised to isolate the area and report any damage to ACM possible re. Employees are advised to contact supervisors if conditions are encountered which may cause asbestos exposure.

Number of days within which maintenance and custodial employees will receive this notification after their initial hire 30 days

Building occupants in buildings containing ACM are informed on what precautions must be taken to avoid disturbing the ACM by the following methods:

On-line inventories of asbestos materials are accessible to all UM occupants. All resident students receive a brochure at time of occupancy that references the existence of ACMs in some dormitories and cautions against any activity that causes damage to building materials.

Number of days building occupants will receive this notification within their initial occupancy 1 day

The person or position responsible for providing this notification is

Stephen Reid	FM Project Manager	(301) 405-6910
Patrick Rhodes	DRF Assistant to Assistant Director	(301) 314-3486

Summary of Asbestos Training Activities at the Facility

Asbestos Training Program

The purpose of the training program is to inform employees of those aspects of asbestos hazard recognition, reporting, and response which they must follow to minimize the risk of exposure to themselves and others. Level II building maintenance employees and their supervisors will receive both initial training and refresher training from the Maryland Department of the Environment or a licensed contractor.

Level II automotive mechanics involved with asbestos brake and clutch work will receive initial training from the Maryland Department of the Environment and annual refresher training from the Agency Safety and Health Specialist.

Asbestos Safety & Health Specialists, Asbestos Program Managers, and Building Inspectors will attend Maryland Department of the Environment sponsored training classes, including, but not limited to Building Inspector/Management Planner Initial and annual refresher training.

Level I Employees shall be trained annually by the Agency Safety and Health Specialist or other members of the Department of Environmental Safety, Sustainability & Risk staff, using guidelines furnished by the Maryland Department of the Environment.

The Department Coordinator is Katherine Cavanaugh

The Department Coordinator's Training Contacts at the Facility are:

Ronald Llobrera	Safety Specialist ESSR	(301) 405-7679
Katherine Cavanaugh	Manager, OSH & Loss Control ESSR	(301) 405-2887
Michael Stumpo	OSH Coordinator ESSR	(301) 405-3982
Elena Johnson	Safety Specialist ESSR	(301) 405-9736

Employees will be notified of their scheduled training dates by their supervisors. Employer notification of training will vary in time depending upon type of training (scheduled vs in-shop) and training provider.

Procedures for access to training records:

- Contact Katherine Cavanaugh at (301) 405-2887 for training record information.
- Current employees may also access their training records through the ESSR training records database at <https://essr.umd.edu>.
- Unit heads and training coordinators also have access to subordinates' training records through <https://essr.umd.edu>.

Summary of Asbestos Training Activities at the Facility

Date	Course Title	Time Expended	Instructor
7/12/2018	Asbestos Awareness, Level I	120 min.	Jennifer Kurek
8/9/2018	Asbestos Awareness, Level I	120 min.	Katherine Cavanaugh
10/11/2018	Asbestos Awareness, Level I	120 min.	Jennifer Kurek
12/13/2018	Asbestos Awareness, Level I	120 min.	Jennifer Kurek
9/13/2018	Asbestos Awareness, Level 1 Refresher	60 min.	Jennifer Kurek / Katherine Cavanaugh
11/8/2018	Asbestos Awareness, Level 1 Refresher	60 min.	Jennifer Kurek / Katherine Cavanaugh
1/25/2019	Asbestos Awareness, Level 1 Refresher	60 min.	Jennifer Kurek / Katherine Cavanaugh
2/7/2019	Asbestos Awareness, Level 1 Refresher	60 min.	Jennifer Kurek
2/14/2019	Asbestos Awareness, Level 1 Refresher	60 min.	Jennifer Kurek / Katherine Cavanaugh
2/25/2019	Asbestos Awareness, Level 1 Refresher	60 min.	Jennifer Kurek
4/11/2019	Asbestos Awareness, Level 1 Refresher	60 min.	Jennifer Kurek / Katherine Cavanaugh
5/9/2019	Asbestos Awareness, Level I	120 min.	Michael Stumpo
5/28/2019	Asbestos Awareness, Level I	120 min.	Ronald Llobrera
6/13/2019	Asbestos Awareness, Level I	120 min.	Ronald Llobrera
6/13/2019	Asbestos Awareness, Level 1 Refresher	60 min.	Jennifer Kurek

Note: No Asbestos Automotive Re-training was conducted during this period.

Asbestos Medical Monitoring Program

In accordance with Executive Order 01.01.1987.22, employees classified as Level II workers must participate in the medical monitoring program. Employees who do not participate in medical monitoring or who are disapproved for respirator use cannot work with asbestos. Those employees who were exposed to asbestos in the past while in State service (i.e., in a Level II type position) are also eligible for medical monitoring, even if they are not currently working in a Level II capacity. Exams are scheduled through the University Health Center (UHC) and employees’ supervisors.

The Departmental Coordinator's Medical Monitoring Contact at the facility is:

Rebekah Giannakos UHC - Occupational Health (301) 314-8172

Employees will be notified of their medical monitoring appointments by:

UHC Personnel UHC - Occupational Health (301) 314-8172 or (301) 314-8199

The following procedures are instituted to ensure individuals keep appointments and to track cancellations:

Supervisors are notified of available medical surveillance schedule slots. They coordinate staff availability with scheduling and ensure that staff keep their appointments. If employees are unable to make their appointments, supervisors must contact the Health Center - Occupational Health Unit as soon as possible.

Medical monitoring records will be maintained at the following location:

University Health Center - Occupational Health Office

by:

Rebekah Giannakos Occupational Health (301) 314-8172

The following procedures are in place for access to medical monitoring records:

Contact the Occupational Health Unit at (301) 314-8172 or (301) 314-8199 to coordinate medical record access.

During the reporting period the following persons have been re-designated from a Level II category to a Level I

category BUT WILL be kept in the Medical Monitoring Program:

Name	Job Classification	MDE Number
None		

During the reporting period the following persons have been re-designated from a Level II category to a Level I category AND WILL NOT be kept in the Medical Monitoring Program:

Name	Job Classification	MDE Number
None		

Work Permit Policy for Outside Contractors (Telephone, Electrical, Computer, Plumbing, etc.)

Purpose: The work permit policy ensures that authorization is obtained prior to outside contractors performing maintenance, repair, or renovation work, to avoid inadvertent disturbance of ACM. All plans for work by outside contractors must be reviewed for asbestos disturbing potential by:

Any one of the following persons approved by the Asbestos Program Manager as being aware of asbestos locations and any precautions that are necessary to work in those areas.

Michael Stumpo	OSH Coordinator, ESSR	(301) 405-3982
Vacant	Engineer, Code Services	(301) 405-7488
Stephen Reid	FM Project Manager	(301) 405-6910

OR

The Asbestos Program Manager:

Michael Stumpo	OSH Coordinator, ESSR	(301) 405-3982
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All contracted jobs occurring in an area containing ACM must have the work reviewed by a person capable of recognizing potential asbestos hazards. If special work procedures precautions are necessary, such as not placing ladders against pipes, not hanging wires into fireproofing, etc. they will be specified by an accredited Supervisor (see page 4) or other personnel listed on this page.

Documentation of review will be maintained at:

Facilities Management - Architecture, Engineering & Construction, Building 003

Procedures for access are:

Contact Stephen Reid at (301) 405-6910

The following information establishes requirements for contractors at UM:

Permit Policy for Projects Designed by Outside A/Es

Consistent with the University's Design Criteria and Facility Standards (DC/FS) for A/E's, "All pre-1985 buildings scheduled for alterations which impact existing building materials shall be surveyed and assessed for asbestos conditions consistent with regulatory requirements and the University's specifications for Industrial Hygiene services."

"Where damage or disturbance is anticipated during construction, appropriate corrective action must be designed into the project."

“Where feasible, designs which avoid or minimize disturbance through in-place management techniques are preferred over wholesale removal.”

The University’s DC/FS for A /E’s manual is accessible at <https://www.facilities.umd.edu/MMD/>

These A/E designs are subject to University review by EPA-accredited Asbestos Project Designers in the Department of Environmental Safety Code Services unit.

Permit Policy for Projects Designed In-House by Campus Projects

Consistent with Campus Project’s Contract Specifications for Hazardous Materials Abatement, On-Call Contractors shall secure qualified and accredited Industrial Hygiene firms to:

“At Owner’s request, visit specific sites to assess potential hazards and, based on results of sampling and analysis, make recommendations for abatement as necessary to meet project objectives.”

“a) Where available, review previous sampling data, as-built drawings, aerial photographs, and/or archived specifications to assess pre-existing conditions and to outline relevant architectural, mechanical, and structural elements of the subject building.

“b) Where directed by Owner’s representative, conduct site reconnaissance and interview key site personnel to identify recognizable environmental conditions which potentially compromise environmental health and safety.

“c) Submit sampling scheme to collect air, soil, water, dust wipe, or material bulk samples of subject environmental parameters for laboratory analysis, in accordance with procedures set forth in the Contract Documents or professional industrial hygiene standards.

“d) Report imminent hazards represented by existing conditions to the Owner without delay.

“Furnish Owner with a written report not later than five (5) days following completion of initial visit unless otherwise stated in writing.

“a) Faster rates of turnaround may be requested, as needed.

“b) The report shall discuss findings and recommendations.

“Conduct investigations in accordance with applicable regulations, existing guidelines as indicated in the Contract Documents, and current professional industrial hygiene standards.”

The University may, from time to time, contract directly with qualified and accredited Industrial Hygiene firms to evaluate site conditions in advance of work. All IH firm evaluations are subject to University review by EPA-accredited Asbestos Project Designers in the Department of Environmental Safety, Safety and Code Services unit.

Periodic Surveillance Program

Asbestos which remains in a building must be periodically surveyed to note and respond to changes in its condition. The elements of the surveillance program include the following:

1. Assignment of trained individuals knowledgeable in the inspection and assessment of ACM and its potential for disturbance.
2. Pre-surveillance record review of asbestos locations and any abatements done since the last survey.
3. Scheduling which is consistent with the ACM's general condition and access.
4. Occupancy control, if obtaining samples during periodic surveillance.
5. Recordkeeping.
6. Transmittal of information to the person performing the hazard assessment and response action planning.

The periodic surveillance program will be implemented under the authority of the asbestos program manager by:

Katherine Cavanaugh Manager, OSH, ESSR (301) 405-2887

Individuals/Positions performing periodic surveillance shall be employees that are accredited workers, accredited supervisors, or accredited building inspectors.

The following individuals will be involved in periodic surveillance activities:

Ronald Llobrera	Safety Specialist, ESSR	(301) 405-7976
Elena Johnson	Safety Specialist, ESSR	(301) 405-9736
Michael Stumpo	OSH Coordinator, ESSR	(301) 405-3982
Stephen Reid	Project Manager, Facilities Management	(301) 405-6910

Building maintenance staff in Facilities Management, Dining Services and Residential Facilities departments are responsible for routine assessment for damage conditions in assigned facilities. These employees receive Asbestos Level I training and report damage conditions to work control centers for repair/removal coordination.

Records of inspection training for all asbestos-related positions/individuals are kept at:

Department of Environmental Safety, Sustainability & Risk, Seneca, Room 0103

by:

Katherine Cavanaugh OSH Manager, ESSR (301) 405-2887

Periodic surveillance is an on-going activity to be completed as schedules and time constraints permit.

In the event that samples must be taken, the following procedures will be used to control occupancy:

Samples in occupied locations are collected during periods of non-occupancy (nights, weekends, holidays, etc.)

Records pertaining to surveillance activities are kept at:

Department of Environmental Safety, Sustainability & Risk, Seneca Building, Room 0103

Supplies necessary to perform periodic surveillance can be obtained at:

Department of Environmental Safety, Sustainability & Risk, Seneca Building, Room 0103

The following procedures will be used to access periodic surveillance supplies and/or records:

Contact ESSR at (301) 405-3960 for more information.

At the conclusion of each survey, a copy of the findings will be sent to the Management Planner, who will do the hazard assessment and response action planning. The original copy will be sent to the appropriate record keeper.

The following persons shall be responsible for incorporating periodic surveillance information into the records pertaining to asbestos conditions:

Michael Stumpo	OSH Coordinator, ESSR	(301) 405-3982
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Number of days from the end of each period surveillance survey that information regarding the condition of asbestos materials will be incorporated into the files.	30 days
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Respiratory Protection Program

A written respiratory protection program shall be maintained at the facility. The purpose of such a program is to ensure that employees are adequately protected against respiratory hazards.

The following person will be responsible for writing and implementing this facility's respiratory protection program:

Katherine Cavanaugh Manager, OSH & Loss Control, ESSR (301) 405-2887

Number of times per year employee asbestos exposures, job tasks, etc. shall be evaluated to see if conditions have changed using the following procedures:

Conditions are evaluated by the on-site Competent Person to verify that appropriate respiratory protection is in place. Exposure Assessments are to be conducted for all asbestos abatement activities and changes in techniques, materials and controls are sufficient cause to re-evaluate personal exposures.

The following procedures will be used to evaluate employee job tasks:

- All exposure monitoring of Level II employees will be conducted by occupational safety and health staff in the Department of Environmental Safety, Sustainability & Risk. Current OSHA and NIOSH criteria are followed for obtaining personal samples.
- Analysis of samples will be performed by a NIST/NVLAP accredited laboratory for asbestos analysis.
- Competent persons are responsible for verifying that all asbestos tasks are evaluated to determine employee exposures. If exposures are demonstrated above 10 fibers per cubic centimeter of air (f/cc) as an 8-hour time-weighted average (TWA), or if Excursion Limits exceed 100 f/cc, use of the full-face PAPR must be discontinued and a Type C supplied air respirator or self-contained breathing apparatus used before proceeding.

The following person is responsible for fit testing of employees after they have received an initial fit test from MDE. Fit tests will be done annually.

Katherine Cavanaugh OSH Manager, ESSR (301) 405-2887

A copy of the written respiratory protection program as well as copies of individual employee fit tests will be kept at the following location:

Department of Environmental Safety, Sustainability & Risk, Seneca Building, Room 0103

Procedures to access include:

Contact ESSR at (301) 405-3960 or view document at: <https://www.essr.umd.edu/>. Employees who have been fit-tested may view their status through the ESSR web page at: <https://www.essr.umd.edu/>.

The following procedures were used to inform Level II Employees on policies and procedures in place at the facility regarding use and care of respirators:

Employees receive annual Respiratory Protection training from/thru Environmental Safety, Sustainability & Risk that specifies regulatory requirements for care and use of respirators. Supervisors are required to detail specific procedures in the worksite-specific Respiratory Protection Program implemented for each work group.

The following procedures are in place for storage of respirators filter cartridges, and other related components:

Employees receive annual Respiratory Protection training from/thru Environmental Safety, Sustainability & Risk that specifies regulatory requirements for storage of respirators and components. Supervisors are required to detail specific procedures in the worksite-specific Respiratory Protection Program implemented for each work group.

The following requirements are in place regarding cleaning and disinfection of respirators:

Employees receive annual Respiratory Protection training from/thru Environmental Safety, Sustainability & Risk that specifies regulatory requirements for cleaning and sanitizing respirators. Supervisors are required to detail specific procedures in the worksite-specific Respiratory Protection Program implemented for each work group.

For PAPRs (powered air-purifying respirators), the following procedures are used to ensure that batteries are properly charged and available for emergency response:

Employees are issued personal respirators. They are responsible for maintaining batteries and condition of the device as detailed in the manufacturers' manuals and literature.

For PAPRs, describe how the flow-testing device is made available to respirator users so they can verify that they have sufficient airflow through the unit, as recommended by the manufacturer:

All personally issued PAPRs have test devices for determining the flow rate. Tight-fitting PAPRs must be capable of delivering a minimum of 4 CFM.

**Response Action Summary (Level II Work)
for the Reporting Period 1 Jul 16 - 30 Jun 17**

No response actions (Level II Work) were conducted in-house during the reporting period. All asbestos abatement/cleanup work is conducted by licensed companies that are contracted by the Department of Facilities Management.

Hazard Assessment - Response Action Planning Method

The following accredited Management Planner will perform the hazard assessment using the decision tree method taught in Building Inspector - Management Planner class.

Michael Stumpo

OSH Coordinator

(301) 405-3982

The hazard assessment must be completed before any response action planning can be done. Additional consultation for hazard assessment or response action design is available through The State Employees Asbestos Program (410) 537-3200.

Records of hazard assessments and response actions are kept on file at the following location:

Department of Environmental Safety, Sustainability & Risk – Seneca Building, Room 0103 and may be accessed by contacting:

Michael Stumpo

OSH Coordinator

(301) 405-3982

Purchase and Supply Inventory System

Purchase of supplies and equipment for asbestos related work at this facility will be overseen by:

Richard Smith Warehouse Supervisor (301) 405-3245

Specifications and requisitions for supplies have been developed by:

Stefan Abresch Construction Contracts-Insulation (301) 405-8075
Services Supervisor

Copies of supply specifications can be obtained from:

Richard Smith Warehouse Supervisor (301) 405-3245

The following inventory procedure will be used to ensure sufficient quantities of supplies are maintained on hand at the facility and to monitor the expenditure of consumable supplies:

When supplies are getting low, warehouse personnel will order and stock.

Employees who need access to equipment and supplies shall use the following procedures:

Contact: Stephen Reid at (301) 405-6910 or Michael Stumpo at (301) 405-3982

Supplies are stored in the following location(s):

Facilities Management Logistics Warehouse (Bldg. 810).

Recordkeeping System

An asbestos recordkeeping system keeps relevant information available to those who need it for daily asbestos activities, provides information necessary for facility, departmental, and State level planning, meets the requirements of **related** laws and regulations, and provides legal documentation.

<u>Type of Record</u>	<u>Maintained by</u>	<u>Location of Records</u>	<u>Procedures for Access</u>
Survey results- BCR's, FSR's, etc.	Michael Stumpo	Environmental Safety, Sustainability & Risk Seneca Building, Rm. 0103	Contact Michael Stumpo (301) 405-3982
As-Builts, Architectural Plans, Blueprints	Facilities Management	Facilities Management - Operations and Maintenance Archives - Service Bldg.	Contact Facilities Management (301) 405-3230
Medical Monitoring Records	Rebekah Giannakos	University Health Center - Occupational Health Unit	Contact Rebekah Giannakos (301) 314-8172
Management Plans	Michael Stumpo	Environmental Safety, Sustainability & Risk Seneca Building, Rm. 0103	Contact Michael Stumpo (301) 405-3982
Abatement Contracts, Priorities, Log of Activities	Stephen Reid	Facilities Management – Severn Building, 0704	Contact Stephen Reid (301) 405-6910
Permits, sampling data, waste manifests	Stephen Reid	Facilities Management – Severn Building, 0704	Contact Stephen Reid (301) 405-6910
Periodic Surveillance Results	Michael Stumpo	Environmental Safety, Sustainability & Risk Seneca Building, Rm. 0103	Contact Michael Stumpo (301) 405-3982
Respiratory Protection Program	Katherine Cavanaugh	Environmental Safety, Sustainability & Risk Seneca Building, Rm. 0103	Contact Katherine Cavanaugh (301) 405-2887
Consent/Refusal Status of Employees, Incentive Pay Log	Consent/Refusal Status not followed at UM. Departments maintain pay logs.	Individual department payroll offices.	Contact department's accountant or business manager.

<u>Type of Record</u>	<u>Maintained by</u>	<u>Location of Records</u>	<u>Procedures for Access</u>
Written O/M Plan	Michael Stumpo	Environmental Safety, Sustainability & Risk Seneca Building, Rm. 0103	Contact Michael Stumpo (301) 405-3982
Training Records	Michael Stumpo	Environmental Safety, Sustainability & Risk Seneca Building, Rm. 0103	Contact Michael Stumpo (301) 405-3982
Equipment Logs	Michael Stumpo	Environmental Safety, Sustainability & Risk Seneca Building, Rm. 0103	Contact Michael Stumpo (301) 405-3982