

WASHINGTON ADVENTIST UNIVERSITY

DEPARTMENT OF PUBLIC SAFETY DIVISION

FACILITY ASBESTOS MANAGEMENT PLAN

TAKOMA PARK CAMPUS

REVIEWED and APPROVED BY:

Patrick Farley
WAU- V.P. of Finance

DATE: _____

Steven Lapham
WAU-Executive Director of Facility Services

DATE: _____

John Meier
WAU-Lieutenant of Public Safety Dept.

DATE: _____

Purpose

The purpose of this Asbestos Management Plan is to outline how Washington Adventist University manages asbestos in house (operations and maintenance) and how the University manages asbestos abatement projects.

Goals/Objectives

- Identification, assessment and periodic surveillance of ACM
- Provide emergency response to fiber release episodes
- Compliance with record keeping requirements (sampling data, manifests, survey reports) as per federal and Maryland State requirements
- Ensuring asbestos abatement project designs comply with federal, State, and university Regulatory requirements
- Protecting the health and safety of the Washington Adventist University community during abatement projects through project monitoring and quality control.

Responsibilities

Department of Public Safety Division

- Oversee all asbestos surveys and abatement activities
- Schedule and provide Asbestos Awareness Training for all affected employees
- Maintain asbestos-related documentation, including building surveys, training records, and waste Manifests and abatement project documents

Facility Services

- Review work requests and tickets for the potential to disturb suspect asbestos-containing material (ACM). Any work request or ticket that requires cutting, drilling, sawing, grinding, or otherwise disturbing suspect asbestos-containing material shall be sent to the DPS-Safety Division for further consideration
- Coordinate with WAU-DPS-Safety division to schedule Asbestos Awareness Training for employees annually
- Notify the WAU-DPS-Safety Division when new employees are hired to ensure that the appropriate training is administered
- Submit to WAU- DPS-Safety Division detailed plans for all renovation and demolition projects for review of the potential to disturb asbestos-containing materials

Property Management, Real Estate, Investment, Construction Programs, Special Projects, and all Outside Contractors

- Submit to the Office of Dept of Facility Services and DPS-Safety Division detailed plans for all renovation and demolition projects for review of the potential to disturb asbestos-containing materials

Asbestos Management

Washington Adventist University follows the EPA recommended approach for asbestos management. EPA endorses a practical approach where intact asbestos containing building materials are managed in place. Only if the material is damaged or is expected to be impacted by renovation or repair work will it be removed.

The WAU- Facility Services Dept. contracts third party industrial hygienists to perform air Monitoring and project oversight, during, and after abatement projects to ensure air quality criteria established by the EPA, OSHA, and the MOSHA is maintained.

- Contractors also monitor their own employees involved in abatement activities.
- All projects are conducted to minimize disruption to campus activities. All asbestos abatement Projects are clearly labeled to indicate to the campus community that such work is ongoing.
- Only wet methods or a HEPA filtered vacuum are used for emergency asbestos cleanup activities.
- Keeping the asbestos wet during removal ensures that the asbestos does not become airborne.
- Respiratory protection is required when working with asbestos. Emergency cleanup activities will be contracted out.
- Maryland Law requires that projects involving more than 160 square feet or 260 linear feet of shall notify the Maryland Air Management Administration in writing as soon as possible before the project begins.

Asbestos Inspections and Surveys

- Inspections and surveys are conducted by a person who has received adequate training to perform these tasks competently
- All suspect asbestos-containing materials are considered “Presumed Asbestos Containing Materials” (PACM) until analysis has proven otherwise
- Bulk sample analysis by Polarized Light Microscopy (PLM) or Transmission Electron Microscopy (TEM) methods is performed by an American Industrial Hygiene Association (AIHA) and National Voluntary Laboratory Accreditation Program (NVLAP) accredited laboratory
- Survey records are maintained by the Office of Risk Management and are made available to Employees, staff, students, and contractors
- Control measures to prevent asbestos exposure take effect when any work is performed on or around ACM. Regulated areas are established to indicate locations where a reasonable Possibility for airborne levels of asbestos may exceed the OSHA Permissible Exposure Limit (PEL) of 0.1 asbestos fibers per cubic centimeter (f/cc) of air.

Asbestos Awareness Training

Asbestos Awareness Training is provided to all University employees who have the potential to impact asbestos-containing material. Affected groups include:

- Facilities services Operations
- Housekeeping
- Department of Public Safety

Asbestos Abatement Operations

A person trained in the provisions of the Asbestos National Emissions Standard for Hazardous Air Pollutants (NESHAP) supervises all asbestos abatement operations. This person is present during all asbestos-containing material (ACM) abatement operations. All asbestos abatement operations at the University shall comply with Section 112 of the Clean Air Act, as amended by Section 301 of the 1990 CAA Amendment, and with all of the requirements of the Asbestos

NESHAP at 40 CFR 61.140 and with the "Control of Asbestos" at (MD) Title 26 Department of the Environment Subtitle 11 Air Quality.

Air Sampling

Air sampling is conducted before, during and after abatement, to ensure that the asbestos operations on site have been adequately removed and that the area has been properly cleaned. All final clearance air sampling to be analyzed by phase contrast microscopy shall be conducted in accordance with the National Institute of Occupational Safety and Health (NIOSH) method 7400 for all projects that contain less than NESHAP quantities. The clearance level for re-occupancy using PCM analysis is 0.01-fibers/cubic centimeter of air (f/cc).

All final clearance air sampling to be analyzed by transmission electron microscopy shall be conducted in accordance with the U.S. Environmental Protection Agency (EPA) Title 40 of the CFR Part 763 Final Rule (Asbestos Containing Materials in Schools) for all projects that contain greater than NESHAP quantities.

The clearance level for re-occupancy, using TEM analysis is less than 70 structures per square millimeter per filter area.

All final clearance air sampling shall be conducted by an Accredited Project Monitor, trained to competently perform the task.

Record Keeping

- Signed manifests returned from the asbestos disposal facilities shall be maintained by the WAU-Facility Services.
- All insurance documents and business licenses shall be kept on file at the WAU-Facility Services.
- Copies of all notifications and permits shall be submitted to the WAU-Facility Services prior to the commencement of an abatement project.
- All abatement project documentation including final abatement and air monitoring reports will be kept on file at the WAU-Facility Services for a minimum of thirty years

PROGRAM PERSONNEL AND ACCREDITATIONS

Ellis Contee
Facility Services Supervisor
Tel. 301-891-4161
Supervisor # 111760

ACCREDITED SUPERVISORS AS OF 2011

NAME	DEPARTMENT	ACCREDITATION/DATE
Ellis Contee	Facility Services	107377 (5/14/2010)

FACILITY ASBESTOS OVERVIEWS

Building classed by Asbestos content		No. of Buildings
Class A	Asbestos Free	
Class B	Miscellaneous ACM only in good condition	
Class C	Surfacing and /or thermal ACM in good condition	
Class C1	Miscellaneous ACM with moderate Damage	
Class D	Surfacing and / or thermal ACM w/ moderate Damage	
Class D1	Miscellaneous ACM with significant Damage	
Class D2	Surfacing and /or Thermal with significant Damage	
Class X	Facilities with unknown asbestos inventory/ conditions	

Total of numbers of Buildings without restricted areas:

Restricted Areas	No. of Buildings
Due to Asbestos damage/deterioration, the following areas are restricted and access is limited to trained/Medical monitored level II employee using Protective clothing and respirators.	
Entire Buildings	
Boilers rooms	
Crawls spaces	
Attics	
Spaces between ceiling desks and suspended ceilings	
Pipe chases	
Basements	
Classroom/Office/ Residential Areas	
Auditorium/ Cafeteria/ Gym Areas	
Other: Open topped walls	

ASBESTOS INVENTORIES

Except for **Restricted Areas** referenced at page 2 of this document and as noted in the 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 40CFR 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 it’s 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.”

WAU- 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:

Mr. Patrick Farley	V.P. of Financial for Washington Adventist University.	301-891-4156
Mr. Steven Lapham	Executive Director Facility Services for Washington Adventist University	301-891-4161
Mr. John Meier	Lieutenant of Public Safety for Washington Adventist University	301-891-4019

All employees utilizing the Washington Adventist University 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, contacts:

Steve Lapham
Department of Facility Services
(301) 891-4161

WAU Dept. of Public Safety

CONTACT INFORMATION

UNIVERSITY INFORMATION
Address: 7600 Flower Ave. Takoma Park, Maryland 20912.
High Education: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Telephone Numbers: 301-891-4019, 301-891-4161 and 301-891-4008

DESIGNATED PERSON INFORMATION		
Name of Designated Person: Steve Lapham		Tel. No. 301-891-4161
Address: 7600 Flower Ave. Takoma Park, Maryland 20912		
Courses Name:	Training Agency	Hours of Training

MANAGEMENT PLANNER (S)		
The following Management Planner (s) has developed/contributed to this plan and is accredited under the Maryland State accreditation program or an EPA-approved course.		
Name: Steve Lapham		Tel. No. 301-891-4161
Firm: Washington Adventist University, Dept. of Facility Services		
Address: 7600 Flower Ave, Takoma Park, Maryland 20912		
State of Accreditation Number:		
Course Name:	Date:	Training Agency:
Name:		Tel. No.
Firm:		
Address:		
State of Accreditation Number:		
Course Name:	Date:	Training Agency

UNIVERSITY BUILDINGS LIST

List each building used as University building for this University (e.g., site administration building, maintenance building storage building and any off site building used for classroom, etc). List the date of the original construction and any subsequent additions. Place and X in the appropriate column to note whether the building has friable ACBM, non-friable ACBM, friable and non-friable suspect ACBM assumed to be ACM or no ACBM at the time of contractions. If there is no ACBM in the building as a result of a removal action, note "removal" and insert the date (e.g. removal).

Name of Buildings	Address	Construction Date (s)	Friable ACBM	Non Friable ACBM	Friable & non-friable suspected ACBM assumed to be ACBM	No ACBM
Richard Hall	7600 Flower Ave TP	6-27-12 6-28-12	No	No	Yes, Room 103	Y
Wilkinson Hall	7600 Flower Ave TP	6-29-12	N/A	N/A	Dinning Ceiling tiles no hot.	Insp. 11-7-11
Morrison Hall	7600 Flower Ave TP					
Halcyon Hall	7600 Flower Ave TP					
Science Building	7600 Flower Ave TP					
Health Science building	7600 Flower Ave TP					
Gymnasium	7600 Flower Ave TP					
Trans-shop	7600 Flower Ave TP					
Power Plant	7600 Flower Ave TP					
General Services	7600 Flower Ave TP					
Library	7600 Flower Ave TP					
Music Building	7600 Flower Ave TP					

ATTACHMENT

- IF THE University building was constructed after October 12, 1988 and is asbestos-free, attach a signed statement from an archived or project engineer responsible for the construction of the building, or project engineer responsible for the building or by an accredited inspector, indicating that no ACBM was specified as a building material in any construction document for the building or to the best of his or her knowledge, no ACBM was used as building materials.

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ASBESTOS MANAGEMENT PLAN**

INSPECTION COVER SHEET

Type of Inspection: <input type="checkbox"/> Initial inspection <input type="checkbox"/> Re-inspection	
Date of Inspection:	
Building Assessed:	Tel. Number:
Address:	
Date of Original Building Construction:	

Provide the date, description and location of additional/renovations for this building e.g., new structural additions or application of surfacing material or fireproofing insulation (provide all heating system information in next section).

Type of heating system:
Has any part of the heating system, including boiler(s), hot water pipes, water heater, etc, been renovated or replaced? <input type="checkbox"/> Yes <input type="checkbox"/> No
Provide date, description and location of heating renovation/ replacement for the building:

The following inspector (s) conducted the inspection and is accredited under Maryland State accreditation program and EPA approved course.				
1	Name:	State of Accreditation/Acc No	Signature:	Date:
	Firm:	Date:	Telephone Number:	
	Course Name:	Date:	Training Agency:	
2	Name:	State of Accreditation/Acc No	Signature:	Date:
	Firm:	Date:	Telephone Number:	
	Course Name:	Date:	Training agency:	

