ASBESTOS BUILDING INSPECTION REPORT

for

Michigan State University
Office of Environmental Safety
East Lansing, Michigan 48823

at the

VanHoosen Hall
Building #319
East Lansing, Michigan 48823

Inspection conducted by

Fibertec Industrial Hygiene Services, Inc.
1914 Holloway Drive
Holt, Michigan 48842

Project #20966-1

Project dates: July 11 – July 13, 2005

Final Report date: August 4, 2005
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INTRODUCTION

Fibertec Industrial Hygiene Services, Inc. (Fibertec IHS) was retained by the Michigan State University Office of Environmental and Occupational Safety to perform an asbestos building inspection in VanHoosen Hall. The project was discussed with Ms. Mary Lindsey-Frary of the Michigan State University Office of Environmental and Occupational Safety prior to beginning the fieldwork. Ms. Lindsey-Frary requested a comprehensive asbestos building inspection, including the collection of an appropriate number of bulk asbestos samples in accordance with the provisions of the General Industry Standard for Asbestos.

The asbestos building inspection took place from July 11 to July 13, 2005. During the inspection, bulk samples were collected and quantities of suspect asbestos-containing materials were estimated.

CERTIFICATION

The asbestos building inspection was conducted by Gregg Kolodica, Adam Cobb and John Luna, State of Michigan Accredited Asbestos Building Inspectors. Mr. Cobb and Mr. Luna also maintain accreditation as Asbestos Contractor Supervisors.

Steven Day, Adam Mittino and Sean Hillaker, trained Polarized Light Microscopists, analyzed all bulk asbestos samples in the Fibertec IHS Polarized Light Microscopy (PLM) laboratory.

GENERAL INSPECTION PROCEDURES

In an effort to identify asbestos-containing material (ACM) at VanHoosen Hall, an extensive inspection procedure was followed. A visual inspection of the building was combined with the collection of an appropriate number and distribution of bulk samples. Material sampling that would potentially compromise the weather tight integrity of the building envelope was not conducted (e.g., window glazing compound, roofing) at the request of Michigan State University (including any outside sampling).

Determination of suspect asbestos-containing material was based on visual examination, bulk sample analysis and material age. Specifically, materials similar in color and texture were classified into homogenous areas (e.g., drywall). An appropriate number of samples were collected from material in each homogenous area. The samples were analyzed by Polarized Light Microscopy (PLM) in the Fibertec IHS PLM Laboratory. When the results of analysis of all samples from a homogenous area indicate no asbestos present (less than or equal to one percent), the homogenous area is considered to be a non-asbestos containing material. When the results of analysis indicate asbestos present (in a quantity greater than one percent) in just one sample of those collected from a single homogenous area, the material in the entire homogenous area must be considered asbestos-containing.

Destructive testing (i.e., demolition) was not conducted as part of this asbestos building inspection. Quantities of ACM indicated in pipe chases, above drywall ceilings or other inaccessible areas have been estimated. Additionally, some asbestos-containing material hidden from view (e.g., pipe insulation in inaccessible pipe chases, between walls, floor leveling compound below floor tile, duct caulk on duct in mechanical shafts and vermiculite in cinderblock walls) may be present and may not have been accounted for as part of this inspection.
RESULTS OF VISUAL INSPECTION

Based on the inspection, 23 distinct suspect asbestos-containing materials were identified in VanHoosen Hall. Some suspect asbestos-containing materials were sampled a number of times in different locations, smooth wall and ceiling plaster being an example. All suspect asbestos-containing materials observed at the time of the inspection are listed in the Room by Room Asbestos Building Inspection Forms.

BULK SAMPLE RESULTS

The information gathered from the inspection is included in Appendices B (Bulk Sample Log), C (Bulk Sample Analytical Report), D (Room By Room Asbestos Building Inspection Forms), E (Photograph Log), F (Floor Plan Sketches and Sample Locations) and G (Significantly Damaged ACM).

SUMMARY OF ASBESTOS-CONTAINING MATERIALS

The following materials were found to contain asbestos in VanHoosen Hall:

9” x 9” beige floor tile with cream and tan streaks and associated mastic
Spray-on acoustical ceiling plaster (popcorn)
Cream linoleum with mosaic pattern (self adhesive)
9” x 9” dark brown floor tile with cream and rust streaks
Steam and condensate supply and return pipe straight insulation
Steam and condensate supply and return pipe joint and hanger insulation
Domestic water supply and return pipe straight insulation

The following materials were assumed to contain asbestos in VanHoosen Hall:

Fire doors and frames
Window and door frame caulk compound
Roofing products/materials

The following materials were found not to contain asbestos in VanHoosen Hall:

Plaster (smooth)
Drywall
Drywall joint compound
Canvas wrap on fiberglass pipe straight insulation
Domestic water supply and return pipe joint and hanger insulation
4” cream cove molding and associated mastic
4” brown cove molding and associated mastic
4” black cove molding and associated mastic
12” x 12” tan linoleum with swirl pattern and associated mastic
Vinyl wood grain flooring and associated mastic
12” x 12” cream floor tile with white and tan streaks and associated mastic
White sink undercoating
Black sink undercoating

CONCLUSION

Undamaged and damaged, non-friable (cannot be crumbled, pulverized or reduced to powder by hand pressure when dry) known or assumed asbestos-containing materials, as well as damaged and undamaged, friable known asbestos-containing materials, were discovered during the course of this inspection.

This facility inspection to determine the location of asbestos-containing materials was conducted in accordance with the provisions of the General Industry Standard for Asbestos, the EPA Sampling Bulletin of September 30, 1994, and current industry standards.

For more information contact MSU Environmental Health and Safety – (517) 353-8956
RECOMMENDATIONS

Based on the information collected during this asbestos building inspection, the following recommendations are offered. These recommendations are based on currently observed conditions and may have to be adjusted if change of ownership, emergency, or other factors substantially alter the condition, use or planned future use of the building.

1. Notify the building occupants, custodians, Physical Plant personnel and others who may encounter ACM during the routine execution of their assigned work of the presence of known or assumed asbestos-containing products in or on the building. This notification must be given to any outside contractors (e.g., HVAC maintenance personnel) who work within or atop the building and may disturb the asbestos-containing material(s). Depending on the specific activity being performed, maintenance or repair personnel may need to utilize personal protective equipment or other engineering controls and comply with the provisions of various asbestos regulations.

2. Provide two-hour asbestos hazard awareness training including specific information regarding the quantity, condition and location of ACM for those individuals in the building who may encounter asbestos during the course of their work. Ensure that contractors performing work in the building have equivalent training (at a minimum) and provide appropriate documentation.

3. Plan for the proper removal of any asbestos-containing materials which may be impacted by renovation or demolition prior to any renovation or demolition within the facility.

4. Label any ACM identified in routine maintenance areas, mechanical rooms, custodial closets, and inside ceiling access hatches at a minimum, in accordance with 29 CFR 1910.1200(7) (vii).

5. Repair or remove areas of significantly damaged ACM. Ensure contractors performing the work are licensed, provide appropriate regulatory notification and conduct appropriate air monitoring, including final clearance monitoring.

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