Michigan State University East Lansing, Michigan

Asbestos Inspection Nisbet Hall

January 12, 2007 Project No. G06675



MICHIGAN STATE UNIVERSITY EAST LANSING, MICHIGAN

NISBET HALL ASBESTOS INSPECTION

JANUARY 12, 2007 PROJECT NO. G06675



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LIST OF ACRONYMS

ACM Asbestos-Containing Material

EMSL Analytical, Incorporated, Ann Arbor, Michigan

FTC&H Fishbeck, Thompson, Carr & Huber, Inc.

MSU Michigan State University

OEOS Office of Environmental and Occupational Safety

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INTRODUCTION

FTC&H was retained by MSU OEOS, East Lansing, Michigan, to conduct an asbestos building inspection of Nisbet Hall. FTC&H discussed the project with Mr. Andrew D. Smith, MSU-OEOS, prior to beginning the field work. The inspection was conducted in accordance with the September 13, 2006, FTC&H proposal to MSU.

CERTIFICATION

The asbestos building inspection was conducted by Mr. Mark Nelson, State-of-Michigan Accredited Asbestos Inspector No. A33420. The bulk asbestos samples were analyzed using Polarized Light Microscopy by EMSL, which participates in the National Voluntary Laboratory Accreditation Program (Accreditation No. 101048-4).

INSPECTION PROCEDURES AND SAMPLING METHODOLOGY

The survey was a functional space (room by room) survey, and was used to design the sampling plan. Materials of similar age and uniform color and texture were classified into homogeneous areas. Rooms 12 in Nisbet Hall was not accessible during the inspection. Room by Room Asbestos Building Inspection Forms are provided in Appendix 1.

A minimum of one bulk asbestos sample was collected from miscellaneous materials, three to seven samples were collected from surfacing materials, and Thermal Systems Insulation were sampled as necessary. As required by MSU, the inspection was limited to the building interior. Samples were not collected from roofing materials or materials on the exterior of the building. In addition, samples were not collected from operating machinery or fire doors.

All samples were collected by a State-of-Michigan Accredited Asbestos Building Inspector. The samples were collected from areas considered representative of each homogeneous area. Destructive sampling was not conducted, and the samples were collected from accessible materials. Where necessary, sampling locations were repaired.

Sixteen distinct homogeneous materials suspected of containing asbestos were identified during the inspection. The homogeneous materials are described on Table 1. A total of 30 bulk material samples were collected from the homogeneous materials and 36 total analyses were performed for asbestos. Bulk material samples were collected from suspect ACMs according to the protocol described in

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29 CFR 1926.1101 (Occupational Safety and Health Administration Asbestos Construction Standard). Sample locations are described on the Bulk Sample Log (Appendix 2) and located on the drawings included as Appendix 3.

RESULTS

The samples were transported to EMSL for analysis. The analytical data report provided by EMSL is included as Appendix 4.

Of the 16 homogeneous materials sampled, a total of 2 homogeneous materials were identified to contain asbestos above 1 percent by weight. The asbestos-containing homogeneous materials include:

- Seamless floor covering light brown with white and dark brown (HA 11)
- 12" x 12" beige vinyl tile with dark beige (tile and mastic) (HA 13)

Homogeneous materials assumed to be ACM include:

Fire doors.

Homogeneous materials that are non-ACM include:

- Mud fitting (HA 1)
- 2' x 4' ceiling tile with pinholes & fissures (HA 3)
- 1' x 1' ceiling tile with fissures (HA 4)
- 4" brown cove base (HA 5)
- Spray on fire proofing (HA 6)
- 4" grey cove base (HA 7)
- 2' x 2' ceiling tile with pinholes & fissures (HA 8)
- Drywall (HA 2)
- 2' x 2' ceiling tile with large and small pinholes (HA 9)
- Fiber board ceiling (HA 10)
- 6" brown cove base (HA 12)
- 12" x 12" grey vinyl tile with light grey speckles (HA 14)
- 12" x 12" white vinyl tile with grey (HA 15)
- 4" black cove base (HA 16)

Estimated quantities of each homogeneous area by functional space are provided on the Room by Room Asbestos Building Inspection Forms (Appendix 1). Estimates of the total quantity for each homogeneous area are provided on Table 1.

The quantities provided within this report are only estimates. Additional materials may exist within wall cavities, ceiling cavities, or other inaccessible areas that could not be evaluated as part of this asbestos inspection.

CONCLUSIONS

On October 12 and November 1, 2006, a State-of-Michigan Accredited Asbestos Building Inspector conducted an inspection for asbestos at Nisbet Hall. The ACMs and total quantities found as a result of this inspection are shown on Table 1.

Mark R. Nelson

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