EnviroScience Consultants inc.
Environmental Engineering ❖ Industrial Hygiene ❖ Laboratory Services

Office Locations:
Newington, CT
Fairfield, CT
Boston, MA

August 14, 2000

BUSINESS FILE

Mr. John Calhoun
Facilities Manager
Environmental Services
New Milford Public Schools
386 Danbury Road
New Milford, CT 06776

RE: Three Year AHERA Asbestos Re-inspection and Management Plan Update
Northville Elementary School
New Milford, Connecticut
EnviroScience Project No. 99-390.10

Dear Mr. Calhoun:

Enclosed is the report of the three-year AHERA asbestos re-inspection and management plan update conducted by EnviroScience Consultants, Inc. (EnviroScience) at the Northville Elementary School, New Milford, Connecticut. This report is an important document that must be kept on file at the school as well as at a central location where the Management Plans are preserved.

If you have any questions regarding this report, please do not hesitate to contact us. Thank you for this opportunity to have served your environmental needs.

Sincerely,

James L. Scott
Manager, Hazardous Materials

JLS:ec

Enclosure

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ASBESTOS HAZARD EMERGENCY RESPONSE ACT THREE-YEAR ASBESTOS REINSPECTION AND MANAGEMENT PLAN UPDATE FOR NORTHVILLE ELEMENTARY SCHOOL

PERFORMED BY

ENVIROSCIENCE CONSULTANTS, INC.
795 NORTH MOUNTAIN ROAD
NEWINGTON, CONNECTICUT 06111

For Compliance with
State of Connecticut, Department of Public Health
Regulation Regarding Asbestos-Containing Material in Schools
(19a - 333-1 through 19a - 333-13)

And
EPA Asbestos Hazard Emergency Response Act
(40 CFR Part 763)

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APPENDICES

1.0 INTRODUCTION

This three-year asbestos re-inspection of the Northville Elementary School, New Milford, Connecticut was conducted in accordance with the requirements of the following regulations:

(i) State of Connecticut Department of Public Health (CTDPH) Asbestos-Containing Materials in Schools regulation (19a-331-1 through 19a-333-13, Section 3 (b)).

(ii) United States Environmental Protection Agency (USEPA) Asbestos Hazard Emergency Response Act (AHERA) regulation (40 CFR Part 763, Section 763.85 (b)).

Mr. Patrick Sharkany of EnviroScience Consultants, Inc. (EnviroScience) performed the re-inspection on October 20, 1999. Mr. Sharkany is an accredited Asbestos Inspector in the State of Connecticut (License No. 000372). During the re-inspection, the following required tasks were performed:

1. A visual re-inspection and reassessment of all friable known or assumed asbestos-containing building materials (ACBM).

2. A visual re-inspection of ACBM that was previously considered non-friable to determine if the present condition of the material has made it friable.

3. Identification and assessment of any homogeneous areas that contains newly friable ACBM.

2.0 BUILDING AND MECHANICAL SYSTEM DESCRIPTION

The Northville Elementary School is an education facility, which includes grades K-6. The school was constructed in 1982. The building is constructed on a slab foundation with brick outer walls and a corrugated steel frame. The inner walls are constructed of cinderblocks. A suspended ceiling exists in most of the building, resulting in a ceiling plenum with water pipes and air ducts located near the ceiling.

Ventilation is provided by an air handling system, which draws air into return ducts and supplies air by means of air handling units located above the ceiling, forcing air into each room by means of supply ducts.

All areas of the school are serviced by a central boiler room. Heat is provided by one oil burning boiler, which conveys heat hot water pipes that traverse the building through the ceiling plenum to radiators in the rooms.

3.0 RE-INSPECTION REPORT

3.1 Review of Records (Checklist)

The Northville Elementary School was originally inspected for asbestos in August and September of 1986 by Jack S. Kozuchowski of Consulting Services. This inspection is know as

the Asbestos Management Plan (AMP). During this survey the following four (4) materials were suspected of containing asbestos:

HOMOGENEOUS MATERIAL	LOCATION
Boiler stack insulation	Boiler room
Stage curtains	Cafeteria
Ceiling tiles (2 types)	Throughout the building
Floor tiles	Throughout the building

The boiler stack insulation and stage curtain were sampled, in triplicate, by Mr. Kozuchowski during the 1986 inspection. Asbestos was not detected during analyses.

The manufacturer of the ceiling tiles, The Armstrong Corp. (Armstrong) was contacted during the AMP inspection and was provided with lot numbers of the two types of ceiling tiles in the building. Both the "Cortega Minaboard" (lot #769A) and "Cortega Tegular Minatone (lot #704A) suspended ceiling tiles were verified by Armstrong as not containing asbestos.

The manufacturer of the floor tiles, The Armstrong-Marietta Corp. (Armstrong-Marietta) was also contacted regarding the asbestos content in each of the floor tiles used throughout the building*. Armstrong-Marietta's, Terry Hackman checked each lot number* and determined that none of these floor tiles contained asbestos:

*Tile Type and Lot Number

Excelon Tile #51855J8411
Pagoda Red #51842P769
Casa Orange #51843J8411
Imperial 22 #51855J841
White #5185J8311

As mentioned, this inspection was conducted in 1986 and will serve as the original AHERA inspection for the purpose of this 3-Year AHERA Asbestos Re-inspection. EnviroScience conducted the first 3-Year AHERA Asbestos Re-inspection in 1994.

Our 1994 re-inspection lists only thermal system insulation (TSI), in the boiler room, as suspect ABM. The material was assessed as non-TSI and should be removed from the Operation & Maintenance (O&M) Plan.

An important part of this AHERA Re-inspection involved checking documentation that were required to be present at the school being inspected as well as at the central location where all management plans are preserved.

Please see Appendix A for details of our findings.

3.2 Re-inspection Summary

The on-site portion of the re-inspection was documented on forms modeled after examples provided by USEPA and reviewed with Ms. Lesley Giovanelli of the State of Connecticut Department of Public Health.

The first form, **Re-inspection Form 1A**, abstracts inspection data gathered during the initial AHERA inspection (see Appendix B). This form is useful to reference response actions (if any) which have been performed since the last inspection. It additionally provides the inspector a "quick glance" reference when performing the re-inspection.

The second EPA form, **Re-inspection Form 1B,** is used to list all known or assumed asbestos-containing materials that were previously unidentified (see Appendix C). It also lists the ACBM in areas newly acquired by the school for student use, either permanently or temporarily.

The third EPA form, **Reinspection Form 2**, was used to provide information and justification regarding reassessment of the ACBM (see Appendix D). This form also provides response action recommendation including a tentative schedule for completing response actions that recommended removal or repair.

The information obtained during this re-inspection was transmitted to Mr. James Scott, an accredited Management Planner, so that response actions relative to the condition of the ACBM could be designed. Mr. Scott is a licensed Asbestos Management Planner in the State of Connecticut (License No. 000038).

3.3 Newly Identified or Re-sampled ACBM

During the inspection, the following materials were found, which are suspected of being ACBM, and should be considered ACBM until laboratory analyses proves otherwise:

MATERIAL	LOCATION(S)
Transite panels	Interior below windows, especially at courtyards
Wall base and associated mastic	Throughout the school
Insulation	Throughout the school, potentially in fire door cores
Gypsum wallboard and associated joint compound	Throughout the school
Glue daubs	Throughout the school, potentially behind blackboards, mirrors and ceiling tiles
Floor tile mastics	Throughout the school
TSI (piping insulation)	Potentially within walls and pipe chases

No bulk samples were taken. As previously mentioned, these materials should be tested before any maintenance/demolition occurs.

AHERA only covers interior ACBM. Therefore, exterior ACBM were not sampled. However, the following suspect ACBM were noted exterior to the building: caulks and roofing.

Any suspect material encountered during renovation/demolition that is not specifically identified in this report as a non-ACM should be assumed to contain asbestos unless sample results prove otherwise.

3.4 Physical Assessment of ACBMs

During inspection, suspect ACBM were separated into three USEPA categories. These categories are thermal system insulation (TSI), surfacing ACBM, and miscellaneous ACBM. TSI includes all materials used to prevent heat loss or gain or water condensation on mechanical systems. Examples of TSI are pipe insulation, boiler insulation, duct insulation, and mudded insulation on pipe fittings. Surfacing ACBM is commonly used for fireproofing, decorative, and acoustical applications. Miscellaneous materials include all ACBM not listed in TSI or surfacing, such as linoleum, vinyl asbestos flooring, and ceiling tiles.

Finally, all ACBM is quantified in linear and/or square footage, depending on the nature of the material.

All ACBM identified during the inspection and still remaining in the school were reassessed using the State of Connecticut Department of Public Health and AHERA guidelines for assessment of ACBM. The assessment categories are listed as follows:

1 = Damaged or significantly damaged TSI ACBM
2 = Damaged friable surfacing ACBM
3 = Significantly damaged friable surfacing ACBM
4 = Damaged or significantly damaged friable miscellaneous ACBM
5 = ACBM with potential for damage
6 = ACBM with potential for significant damage
7 = Any remaining friable ACBM or friable suspected ACBM

Material locations, assessments, and recommended response actions are listed in the re-inspection forms.

4.0 MANAGEMENT PLAN UPDATE

Based on the inspection report, physical walk-through inspection and existing condition of the ACBM, following response actions are recommended:

4.1 Recommended Response Actions

1. Removal

   No removal recommended at this time.

2. Repair

   No repair required at this time.

3. Enclosure

Not applicable

4. Encapsulation

Not applicable

5. Operations and Maintenance (O & M)

It should be noted that only locations with assessments of 1 or 2 are recommended for removal or repair. All remaining ACBM in the school shall be placed in an Operations and Maintenance (O & M) Program. The condition of such materials will be monitored until all the ACBM have been removed from the building. A successful O & M Program include the following elements:

a) Cleaning: All areas of the school where friable ACBM or friable suspected ACBM assumed to be ACBM are present shall be cleaned at least once after the completion of the initial inspection. Additional cleaning may be necessary if the Management Planner make a written recommendation indicating methods and frequency of such cleaning.

b) O & M Activities: The LEA shall ensure that the procedures described below are followed to protect building occupants for any O & M activities that may disturb known or assumed ACBM:
(1) Restrict entry into the area either by physically isolating or by scheduling.
(2) Post warning signs to prevent entry by unauthorized persons.
(3) Shut off or temporarily modify the air-handling system.
(4) Use proper work practices and engineering controls such as wet methods, protective clothing, HEPA-vacuums, mini enclosures/ glove bags etc. to inhibit spread of fibers.
(5) Place all asbestos debris and other contaminated materials in a sealed, leak-tight container for eventual disposal.

c) Minor Fiber Release Episodes: The LEA shall ensure that the procedures described below are followed in the event of a minor fiber release episode (i.e., disturbance of 3 linear/ square feet or less of friable ACBM):
(1) Saturate the debris using wet method.
(2) Place the debris in a sealed leak-tight container and clean the area.
(3) Repair the area of damaged ACBM with materials such as asbestos-free spackling, plaster or insulation or seal with an encapsulant.

d) Major Fiber Release Episode: The LEA shall ensure that the procedures described below are followed in the event of a major fiber release episode (i.e., disturbance of more than 3 linear/square feet of friable ACBM):
(1) Restrict entry into the area and post warning signs.
(2) Shut off or temporarily modify the air handling system to prevent spread of fibers to other areas of the school.

(3) **The response for any major fiber release episode must be designed by persons accredited to design response actions and conducted by persons accredited to conduct response actions.**
(4) The LEA shall notify the CTDPH of any major fiber release episode within twenty-four hours of its occurrence and, if necessary, provide written notification as required by applicable federal and/or state regulations.

4.2 Periodic Surveillance

At least once every six (6) months after a management plan is in place, the LEA shall conduct periodic surveillance in the school that contains ACBM or assumed to contain ACBM. The person conducting periodic surveillance shall visually inspect all areas in the school that have been identified in the management plan as having ACBM, record the date of surveillance, his/her name, and any changes in the condition of the materials and submit the record to the LEA Designated Person for inclusion in the management plan.

Please see Appendix F for Periodic Surveillance Form that may be used for conducting periodic surveillance.

4.3 Preventive Measures

The LEA shall institute appropriate preventive measures to eliminate the reasonable likelihood that the ACBM will become damaged, deteriorated or delaminated.

Please see Appendix G for preventive measures designed for various types of ACBM that may exist in the school.

5.0 EPA CERTIFICATION REQUIREMENTS

The certificates and the licenses for the individuals (Patrick Sharkany and James L. Scott) involved in performing the re-inspection and updating the management plan are provided in Appendix D.

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CHECKLIST FOR EXISTING RECORDS

Local Education Agency (LEA): Lillis Administration Building
50 East Street, New Milford, Connecticut

School Building: Northville Elementary School

The following documentation is required to be present in both the LEA's Office as well as in a centralized location in the administrative office of the school. The information included in this checklist shall be verified to be present and complete as part of three year re-inspection.

	DOCUMENTATION	LOCATION	
		School	**LEA Office**
1.	Original AHERA Inspection/Management Plan	Yes	Yes
2.	Three year Re-inspection (First)	Yes	Yes
3.	Three year Re-inspection (Second)	Yes	Yes
4.	Notifications to Parents/Guardians and Teachers (yearly since last re-inspection)	No	No
5.	Designated Person Identified and Proper Training (person must be named and have appropriate training)	No	No
6.	Designated Person Periodic Surveillance (every six months since last re-inspection)	No	No
7.	Record of Awareness Training for Maintenance Staff	No	No
8.	Outside Vendor Awareness Notification	No	No
9.	Warning Signs and Labels (required posting in Boiler room and mechanical spaces only)	No	No
10.	Record of Response Actions (includes any abatement done since last re-inspection)	No	No

Comments: _____

Inspector: Patrick Sharkany Date: 10/20/99

School: Northville Elementary School Building Date(s) of Original AHERA Inspection November 1986

This form is not applicable since no ACBM was located during this re-inspection.

Homogeneous sampling areas		Material Category	Friability	Condition Category (1-7)	Recorded Locations	Response actions taken/ renovations/other comments
Sample Number	Material Description					

Information abstracted by Patrick Sharkany Date 10-20-99

Friability: F = friable, NF = nonfriable

AHERA assessment category: 1 = Damaged or significantly damaged TSI ACBM, 2 = Damaged friable surfacing ACBM, 3 = Significantly damaged friable surfacing ACBM, 4 = Damaged or significantly damaged friable miscellaneous ACBM, 5 = ACBM with potential for damage, 6 = ACBM with potential for significant damage, 7 = Any remaining friable ACBM or friable suspected ACBM

School: Northville Elementary School Building Date(s) of Re-Inspection October 20, 1999

Homogeneous sampling areas		Material Category	Quantity (SF/LF)	Friability	Assessment Category (1-7)	Recorded locations of material for each assessment category	Asbestos Content (%)
Sample Number	Material Description						
Assumed	Transite panels	Misc.	Unknown	NF	5	Interior below windows, especially at courtyards	
Assumed	Wall base and associated mastic	Misc.	Unknown	NF	5	Throughout the school	
Assumed	Insulation	Misc.	Unknown	NF	5	Throughout the school, potentially in fire door cores	
Assumed	Gypsum wallboard and associated joint compounds	Misc.	Unknown	NF	5	Throughout the school	
Assumed	Glue daubs	Misc.	Unknown	NF	5	Throughout the school, potentially behind blackboards, mirrors and ceiling tiles	
Assumed	Floor tile mastics	Misc.	Unknown	NF	5	Throughout the school	
Assumed	TSI (piping insulation)	TSI	Unknown	F	5	Potentially within walls and pipe chases	

Information abstracted by Patrick Sharkany Date 10-20-99

Friability: F = friable, NF = nonfriable

AHERA assessment category: 1 = Damaged or significantly damaged TSI ACBM, 2 = Damaged friable surfacing ACBM, 3 = Significantly damaged friable surfacing ACBM, 4 = Damaged or significantly damaged friable miscellaneous ACBM, 5 = ACBM with potential for damage, 6 = ACBM with potential for significant damage, 7 = Any remaining friable ACBM or friable suspected ACBM

School Northville Elementary School Building Not Applicable Date(s) of Re-Inspection October 20, 1999
Homogeneous Material Transite panels ID Number Not applicable

RE-INSPECTION FINDINGS FOR ABM			MANAGEMENT PLANNER RECOMMENDATIONS		
Location(s) of ACBM by assessment category	Quantity	Assessment Description	Response Action(s)	Schedule Begin	Schedule Complete
Interior below windows, especially at courtyards	Unknown	Assumed good	Include under O&M Program. See Section B.1 of Appendix G for preventive measure.	2000	2002

Were additional samples of this ACBM collected? Yes [No]

Date of Management Planner review: 23 June 00

Inspectors Name: for Patrick Sharkany
Inspector signature: James L. Scott

Accreditation #/State: 000372/CT
Expiration date: March 31, 2001

Management Planner Name: James L. Scott
Management Planner signature: James L. Scott

Accreditation #/State: 000038/CT
Expiration Date: August 31, 2001

I, the LEA's Designated Person, have read and understood the recommendations made above: _____ Date: _____

School Northville Elementary School Building Not Applicable Date(s) of Re-Inspection October 20, 1999
Homogeneous Material Wall base and associated mastic ID Number Not applicable

RE-INSPECTION FINDINGS FOR ABM			MANAGEMENT PLANNER RECOMMENDATIONS		
Location(s) of ACBM by assessment category	Quantity	Assessment Description	Response Action(s)	Schedule	
				Begin	Complete
Throughout the school	Unknown	Assumed good	Include under O&M Program. See Section B.1 of Appendix G for preventive measure.	2000	2002
Were additional samples of this ACBM collected? Yes [No]			Date of Management Planner review: 23 June 00		
Inspectors Name: for Patrick Sharkany Inspector signature: James L. Scott Accreditation #/State: 000372/CT Expiration date: March 31, 2001			Management Planner Name: James L. Scott Management Planner signature: James L. Scott Accreditation #/State: 000038/CT Expiration Date: August 31, 2001		
I, the LEA's Designated Person, have read and understood the recommendations made above: _____ Date: _____					

School Northville Elementary School Building Not Applicable Date(s) of Re-Inspection October 20, 1999
Homogeneous Material Insulation ID Number Not applicable

RE-INSPECTION FINDINGS FOR ABM			MANAGEMENT PLANNER RECOMMENDATIONS		
Location(s) of ACBM by assessment category	Quantity	Assessment Description	Response Action(s)	Schedule	
				Begin	Complete
Throughout the school, potentially in fire door cores	Unknown	Assumed good	Include under O&M Program. See Section B.1 of Appendix G for preventive measure.	2000	2002
Were additional samples of this ACBM collected? Yes [No]			Date of Management Planner review: 23 June 00		
Inspectors Name: for Patrick Sharkany Inspector signature: [signature] Accreditation #/State: 000372/CT Expiration date: March 31, 2001			Management Planner Name: James L. Scott Management Planner signature: [signature] Accreditation #/State: 000038/CT Expiration Date: August 31, 2001		
I, the LEA's Designated Person, have read and understood the recommendations made above:_____ Date:_____					

School Northville Elementary School Building Not Applicable Date(s) of Re-Inspection October 20, 1999
Homogeneous Material Gypsum wall board and associated joint compound ID Number Not applicable

RE-INSPECTION FINDINGS FOR ABM			MANAGEMENT PLANNER RECOMMENDATIONS		
Location(s) of ACBM by assessment category	Quantity	Assessment Description	Response Action(s)	Schedule	
				Begin	Complete
Throughout the school	Unknown	Assumed good	Include under O&M Program. See Section B.1 of Appendix G for preventive measure.	2000	2002
Were additional samples of this ACBM collected? Yes [No]			Date of Management Planner review: 23 June 00		
Inspectors Name: for Patrick Sharkany Inspector signature: Accreditation #/State: 000372/CT Expiration date: March 31, 2001			Management Planner Name: James L. Scott Management Planner signature: Accreditation #/State: 000038/CT Expiration Date: August 31, 2001		
I, the LEA's Designated Person, have read and understood the recommendations made above: Date:					

School Northville Elementary School Building Not Applicable Date(s) of Re-Inspection October 20, 1999
Homogeneous Material Glue daubs ID Number Not applicable

RE-INSPECTION FINDINGS FOR ABM			MANAGEMENT PLANNER RECOMMENDATIONS		
Location(s) of ACBM by assessment category	**Quantity**	**Assessment Description**	**Response Action(s)**	**Schedule** Begin	Complete
Throughout the school, potentially behind blackboards, mirrors and ceiling tiles	Unknown	Assumed good	Include under O&M Program. See Section B.1 of Appendix G for preventive measure.	2000	2002
Were additional samples of this ACBM collected? Yes [No]			Date of Management Planner review: 23 June		
Inspectors Name: for Patrick Sharkany Inspector signature: [signature] Accreditation #/State: 000372/CT Expiration date: March 31, 2001			Management Planner Name: James L. Scott Management Planner signature: [signature] Accreditation #/State: 000038/CT Expiration Date: August 31, 2001		
I, the LEA's Designated Person, have read and understood the recommendations made above: _____ Date: _____					

School Northville Elementary School Building Not Applicable Date(s) of Re-Inspection October 20, 1999
Homogeneous Material Floor tile mastics ID Number Not applicable

RE-INSPECTION FINDINGS FOR ABM			MANAGEMENT PLANNER RECOMMENDATIONS		
Location(s) of ACBM by assessment category	Quantity	Assessment Description	Response Action(s)	Schedule	
				Begin	Complete
Throughout the school	Unknown	Assumed good	Include under O&M Program. See Section B.1 of Appendix G for preventive measure.	2000	2002
Were additional samples of this ACBM collected? Yes [No]			Date of Management Planner review: 23 June 02		
Inspectors Name: for Patrick Sharkany Inspector signature: James Scott Accreditation #/State: 000372/CT Expiration date: March 31, 2001			Management Planner Name: James L. Scott Management Planner signature: James Scott Accreditation #/State: 000038/CT Expiration Date: August 31, 2001		
I, the LEA's Designated Person, have read and understood the recommendations made above: _____ Date: _____					

School Northville Elementary School Building Not Applicable Date(s) of Re-Inspection October 20, 1999
Homogeneous Material TSI (piping insulation) ID Number Not applicable

RE-INSPECTION FINDINGS FOR ABM			MANAGEMENT PLANNER RECOMMENDATIONS		
Location(s) of ACBM by assessment category	Quantity	Assessment Description	Response Action(s)	Schedule	
				Begin	Complete
Potentially within walls and pipe chases	Unknown	Assumed good	Include under O&M Program. See Section B.1 of Appendix G for preventive measure.	2000	2002
Were additional samples of this ACBM collected? Yes [No]			Date of Management Planner review: 23 June 00		
Inspectors Name: for Patrick Sharkany Inspector signature: [signature] Accreditation #/State: 000372/CT Expiration date: March 31, 2001			Management Planner Name: James L. Scott Management Planner signature: [signature] Accreditation #/State: 000038/CT Expiration Date: August 31, 2001		
I, the LEA's Designated Person, have read and understood the recommendations made above: _____ Date: _____					

PERIODIC SURVEILLANCE FORM

Local Education Agency (LEA): New Milford Public Schools, 47 Bridge Street

Facility Address: Northville Elementary School

Date of Surveillance: _____

ACBM DAMAGE REPORT

Asbestos Containing Material	Location	Previous Condition	Present Condition	Change in Condition (Yes/No)	Quantity Damaged	Comments
Transite panels	Interior below windows, especially at courtyards					
Wall base and associated mastic	Throughout the school					
Insulation	Potentially in fire door cores throughout the school					
Gypsum wallboard and associated joint compound	Throughout the school					
Glue daubs	Potentially behind blackboards, mirrors and ceiling tiles throughout the school					
Floor tile mastics	Throughout the school					
TSI (piping insulation)	Potentially within walls and pipe chases					

Conditions: G = Good
D = Damaged
SD = Significant damage

Surveillance conducted by: _____

_____
(Signature)

PREVENTIVE MEASURES
FOR VARIOUS ASBESTOS-CONTAINING MATERIALS

A. SURFACING MATERIALS

"Surfacing Materials" means materials in a school building that are sprayed-on, troweled-on, or otherwise applied to surfaces. These include sprayed-on fireproofing materials on structural members, ceiling and wall plasters, or other materials applied to surfaces for acoustical, fireproofing, or other purposes.

Surfacing Materials are generally considered friable and can release asbestos fibers if damaged by impact, air erosion, vibration, and/or water intrusion. The following procedures, when properly implemented, will reduce the potential for fiber release:

1. Sprayed-on fire-proofing

   a) Identify the materials and post warning signs on the laid-in or glued-in ceiling tile. If the decking is not covered, place the sign on the wall.
   b) Maintain the materials in intact state and undamaged condition. During winter, pigeons, squirrels and other rodents tend to roost in boiler/machine rooms and dislodge sprayed-on fireproofing on the decking. Prevent such possibilities.
   c) Prevent water leakage. If the material is significantly damaged, removal is the best option. For minor damage, enclosure is a temporary solution. Encapsulation of damaged sprayed-on fireproofing material is not recommended.
   d) Train the custodial people who are responsible for care and maintenance of surfacing materials. Please note that the repair/removal can only be performed by a licensed abatement contractor.

2. Ceiling and wall plaster

   a) Identify the materials and post warning signs.
   b) Maintain the materials in intact state and undamaged condition. Avoid storing/stacking on/near the materials to reduce contact damage.
   c) Prevent water leakage. If the material is significantly damaged, removal is the best option. For minor damage, repair or enclosure is a temporary solution.
   d) Train the custodial people who are responsible for care and maintenance of surfacing materials.

B. THERMAL SYSTEM INSULATION (TSI)

"Thermal System Insulation (TSI)" means insulating materials applied to pipes, pipe fittings, boilers, breechings, tanks, ducts, or other components to prevent process heat loss or gain, water condensation, or for other purposes (e.g., fire door insulation core).

TSI are generally considered friable asbestos-containing materials. This means they can be easily damaged, increasing the potential for fiber release. The following procedures, when properly implemented, will reduce the potential for fiber release:

1. Boiler and breeching insulation

   a) Identify the locations and label the boiler. Warning signs should be posted outside the boiler room.
   b) Reduce the likelihood of fiber release by ensuring that the insulation is not damaged. Avoid storing/stacking on/near the boiler to reduce contact damage.
   c) Maintain the insulation in intact state and undamaged condition. Repair damaged areas as soon as possible to prevent further deterioration. If repair is not feasible due to extensive damage/deterioration, remove the material.
   d) Train the custodial people who are responsible for care and maintenance of TSI. Please note that the repair/removal can only be performed by a licensed abatement contractor.

2. Pipe, pipe-fittings, tank and duct insulation

   a) Identify the locations and label the materials. Warning signs should be posted outside of rooms that have TSI materials.
   b) Reduce the likelihood of fiber release by ensuring that the materials are not damaged. Avoid storing/stacking near the materials to reduce contact damage.
   c) Maintain all TSI materials in intact state and undamaged condition. Inspect the protective jackets for damage. Repair damaged areas as soon as possible to prevent further deterioration. If repair is not feasible due to extensive damage/deterioration, remove the material.
   d) Train the custodial people who are responsible for care and maintenance of TSI. Please note that the repair/removal can only be performed by a licensed abatement contractor.

3. Fire door

   a) Identify the locations and label the materials.
   b) Since there may be a number of different types of fire doors throughout a building, fire door cores must be considered to have asbestos-containing interior insulation unless sample result prove otherwise. Prior to performing any maintenance on any door (lock change, drilling, etc.), the door should be surveyed by qualified personnel to rule out the existence of an asbestos core.
   c) Train the custodial people who are responsible for care and maintenance of TSI. Please note that the repair/removal can only be performed by a licensed abatement contractor.

C. MISCELLANEOUS MATERIALS

"Miscellaneous Materials" are all other asbestos-containing materials in a school building that do not fall under the categories of Surfacing Materials or TSI. These include floor tiles, floor tile and carpet mastic, gypsum wallboard and joint compound, ceiling tiles, glue daubs, transite panels, laboratory counter tops, wallbase and associated glue, window caulking and glazing compounds etc. The following maintenance procedures are recommended for these materials:

1. Vinyl Asbestos Floor Tiles (VAT)

Vinyl Asbestos Floor Tiles (VAT) are considered non-friable, however routine maintenance procedures such as spray-buffing, burnishing, wet scrubbing, and stripping can generate asbestos fibers. Following procedures, when properly implemented, will reduce the potential of fiber release:

a) Do not sand, grind or abrade the tiles. Stripping of VAT should be done as infrequently as possible. When stripping becomes necessary, follow the appropriate work practices. Never perform dry stripping.
b) During spray-buffing or burnishing the floor, operate the machine at the lowest workable speed and use the least abrasive pad. Use a wet mop for routine cleaning whenever possible.
c) Routinely check whether chair and desk glides are in good condition and replace when necessary. Worn glides can gouge the floor and cause fiber release.
d) Place carpets/floor mats in all entrances to reduce abrasion of floor tiles by sand and pebbles. During winter, have parking lots and walkways swept to the extent possible to avoid the tracking of salt and ice-melting compounds into the school by the students .
e) Train the custodial people who are responsible for care and maintenance of VAT. Please note that the repair/removal can only be performed by a licensed abatement contractor.

2. Gypsum wallboard and joint compound assembly

a) Since there may exist a number of different homogeneous assemblies in a building, all sheetrock/joint compound must be assumed to be ACBM unless sample result prove otherwise. If any specific areas are going to be disturbed, the material in that area should be sampled.
b) Reduce the likelihood of fiber release by avoiding cutting or drilling holes through the sheetrock panels.

3. Ceiling Tile and Glue Daubs

a) Reduce the likelihood of fiber release by limiting access to the area above the ceiling tiles. Maintain the ceiling tiles in undamaged condition. Replace any damaged or water-stained tile.
b) If the ceiling tiles are negative for asbestos, sample and analyze the glue daubs to ascertain whether these are asbestos-containing before the tiles are replaced.

4. Transite Panels, Laboratory Counter Tops, Window Caulking and Glazing Compounds

a) Reduce the likelihood of fiber release.
b) Maintain transite panels, lab tabletops and window caulking and glazing compounds in undamaged condition.

5. Carpet Glue, Blackboard/ Tack Board Glue, Sink Undercoating, Floor Tile Mastic, Baseboard and Mastic

a) Reduce the likelihood of fiber release by leaving base cove and carpets in place.
b) Maintain carpets and base cove in good condition. Sample and analyze the glue and the mastic to ascertain whether these are asbestos-containing if the renovation activities are going to impact the carpet and the baseboard.

STATE OF CONNECTICUT

DEPARTMENT OF PUBLIC HEALTH

PURSUANT TO THE PROVISIONS OF THE GENERAL STATUTES OF CONNECTICUT
THE INDIVIDUAL NAMED BELOW IS LICENSED
BY THIS DEPARTMENT AS A

ASBESTOS CONSULTANT-INSPECTOR

PATRICK A. SHARKANY

LICENSE NO.
000372
CURRENT THROUGH
03/31/01
VALIDATION NO.
00-312726

SIGNATURE

COMMISSIONER/DEPT. OF PUBLIC HEALTH

State of Connecticut

Board of Trustees, Community-Technical Colleges

Capital Community-Technical College

401 Flatbush Avenue, Hartford, CT 06106 -- (860) 987-4814

This is to certify that

Patrick Sharkany

13 Griffith Lane, Ridgefield, CT 06877

SS# 015-62-2515

has successfully completed the

8 Hr. Asbestos Inspector Refresher Course

Asbestos Accreditation under TSCA Title II

40 CFR Part 763

James L. Scott, CIH

Principal Instructor

Patricia Lindsey

Training Manager

Jan. 11, 2000

Date of Course

AIR-1/11-5

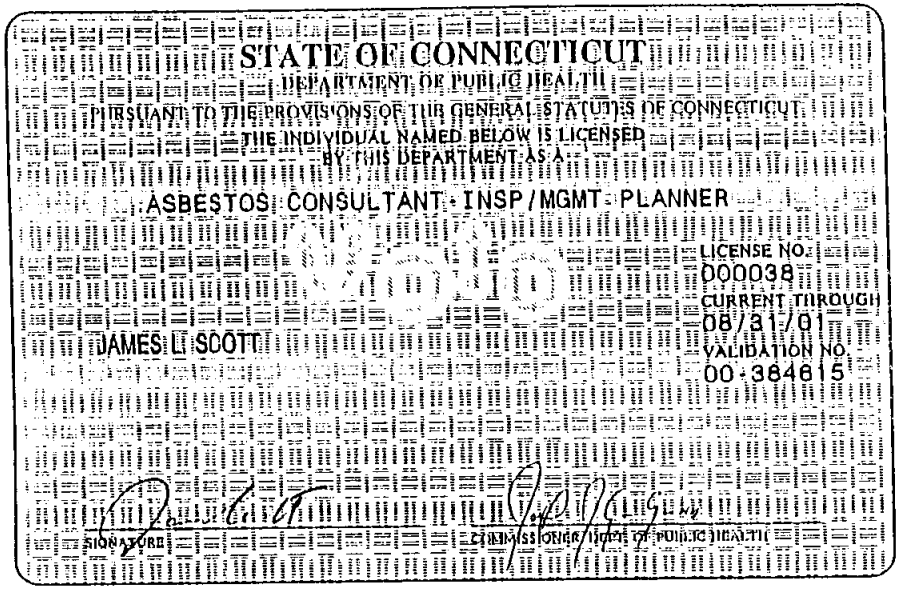
Certificate Number

Jan. 11, 2000: B

Examination Date & Grade

Jan. 11, 2001

Expiration Date



STATE OF CONNECTICUT

DEPARTMENT OF PUBLIC HEALTH

PURSUANT TO THE PROVISIONS OF THE GENERAL STATUTES OF CONNECTICUT,
THE INDIVIDUAL NAMED BELOW IS LICENSED
BY THIS DEPARTMENT AS A

ASBESTOS CONSULTANT - INSP/MGMT - PLANNER

JAMES L SCOTT

LICENSE NO.
000038

CURRENT THROUGH
08/31/01

VALIDATION NO.
00-384615

SIGNATURE

COMMISSIONER, DEPT. OF PUBLIC HEALTH

State of Connecticut

Board of Trustees, Community-Technical Colleges

Capital Community-Technical College

401 Flatbush Avenue, Hartford, CT 06106 -- (860) 987-4814

This is to certify that

James Scott, SS# 019-34-3740

153 North Washington St., Belchertown, MA 01007

has successfully completed the

8 Hour Lead Planner Project Designer Refresher

(Approved per Sec. 20-477, CT General Statutes.)

Robert L. May, Jr.

Instructor

Patricia Lindsey

Training Manager

Nov. 9-10, 1999

Date of Course

LPPDR-11/99-2

Certificate Number

Nov. 10, 1999: A-

Examination Date & Grade

Nov. 10, 2000

Expiration Date

NORTHVILLE

as of 3/25/99