

Maricopa County Asbestos NESHAP Overview



Valerie Brodeur
Asbestos NESHAP Inspector



Maricopa County
Air Quality Department



WALK MORE USE CFLS MORE CARPOOL MORE
BIKE MORE RAKE MORE TELECOMMUTE
MORE DRIVE HYBRIDS MORE CONSOLIDATE
ERRANDS MORE RIDE PUBLIC TRANSPORTATION
MORE USE ENERGY EFFICIENT APPLIANCES
MORE CARRY REUSABLE TOTE BAGS MORE
CONSIDER SOLAR MORE RUN COLD WATER
CYCLES MORE USE REUSABLE CONTAINERS
MORE CONSERVE ELECTRICITY MORE REDUCE
WOODBURNING MORE RECYCLE MORE USE
ELECTRIC LAWN AND GARDEN EQUIPMENT
MORE REFUEL AFTER DARK MORE RIDE
THE BUS MORE RIDE THE LIGHT RAIL MORE
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CLEAN AIR
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Some Asbestos Facts

- Asbestos is a proven human carcinogen
- The construction industry is particularly susceptible to asbestos-related lung diseases
- Asbestos is the most heavily litigated hazardous substance
- Asbestos use has not been banned for use in the U.S.; it is still being put into millions of buildings today
 - Two types of asbestos applications banned in 1970's
 - Spray applied & Thermal System Insulation (TSI)

- VAT (Vinyl Asbestos Tile)
- Plaster
- Fireproofing
- Popcorn Ceiling Texture
- Pipe Insulation
- Vinyl Sheet Flooring
- Duct Seam Tape
- Transite panels
- Mastic
- Roof sealants and roofing materials
- Vermiculite
- Rule of thumb – if it's not bare metal, bare glass or bare wood, it is suspect!!!

Common Current Uses for Asbestos

- Transite Pipe
- Transite Roofing Tiles
- VAT (Vinyl Asbestos Tile)
- Roof Sealant & Roof Paint
- Plaster Finishes
- Many products from 3rd world countries

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ERRANDS MORE RIDE PUBLIC
MORE CONSIDER SOLAR
REDUCE WOODBURNING
MORE RIDE THE BUS

Pure Chrysotile Asbestos at a contractor supply store

USE MORE CONSOLIDATE
REUSABLE TOTE BAGS
SERVE ELECTRICITY MORE
REFUEL AFTER DARK
DIE MORE RAKE MORE



CLEAN AIR
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Two Activities Regulated by Asbestos NESHAP

USE MORE CONSOLIDATE
REUSABLE TOTE BAGS
CONSERVE ELECTRICITY MORE
REFUEL AFTER DARK
RIDE MORE RAKE MORE

Demolition and Renovation



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Definitions

Renovation: altering a facility or one or more facility components in any way, including the stripping or removal of RACM from a facility component



Demolition: the wrecking or taking out of any load-supporting structural member of a facility together with any related handling operations or the intentional burning of any facility

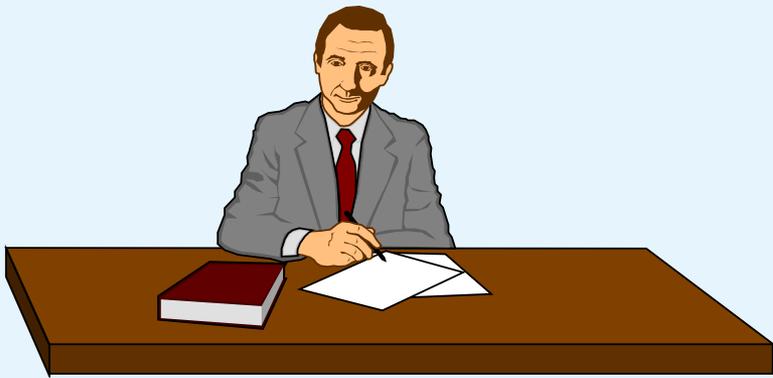


**CLEAN AIR
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The Regulated Community Strict Liability

FOR MORE CONSOLIDATE
REUSABLE TOTE BAGS
CONSERVE ELECTRICITY MORE
REFUEL AFTER DARK
RAKE MORE



**The owner/operator
of a facility**

(It's the building owner and the contractor)

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Why the Owner/Operator are Regulated by NESHAP

USE MORE CONSOLIDATE
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**They are waste generators, producing
asbestos containing waste material
(ACWM)**



CLEAN AIR
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WALK MORE USE CFLS MORE
ERRANDS MORE RIDE PURPLE
MORE CONSIDER SOLAR PANELS
REDUCE WOODBURNING IN
MORE RIDE THE BUS MORE

“Facilities” Regulated by Asbestos NESHAP

USE MORE CONSOLIDATE
REUSABLE TOTE BAGS
SERVE ELECTRICITY MORE
REFUEL AFTER DARK
DINE MORE RAKE MORE

All structures, installations, facility components, or buildings



Includes ships, waste sites, pipelines, and just about everything else



Definition of Facility

- *Facility* means any institutional, commercial, public, industrial, or residential structure, installation, or building **(including any structure, installation, or building containing condominiums or individual dwelling units operated as a residential cooperative, but excluding residential buildings having four or fewer dwelling units**

**CLEAN AIR
MAKE
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WALK MORE USE CEILING FANS
ERRANDS MORE RIDE THE BUS
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REDUCE WOODBURNING
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What Type of Facility is Exempt from NESHAP Requirements?

USE MORE CONSOLIDATE
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***A single residential building
having 1 - 4 living units***



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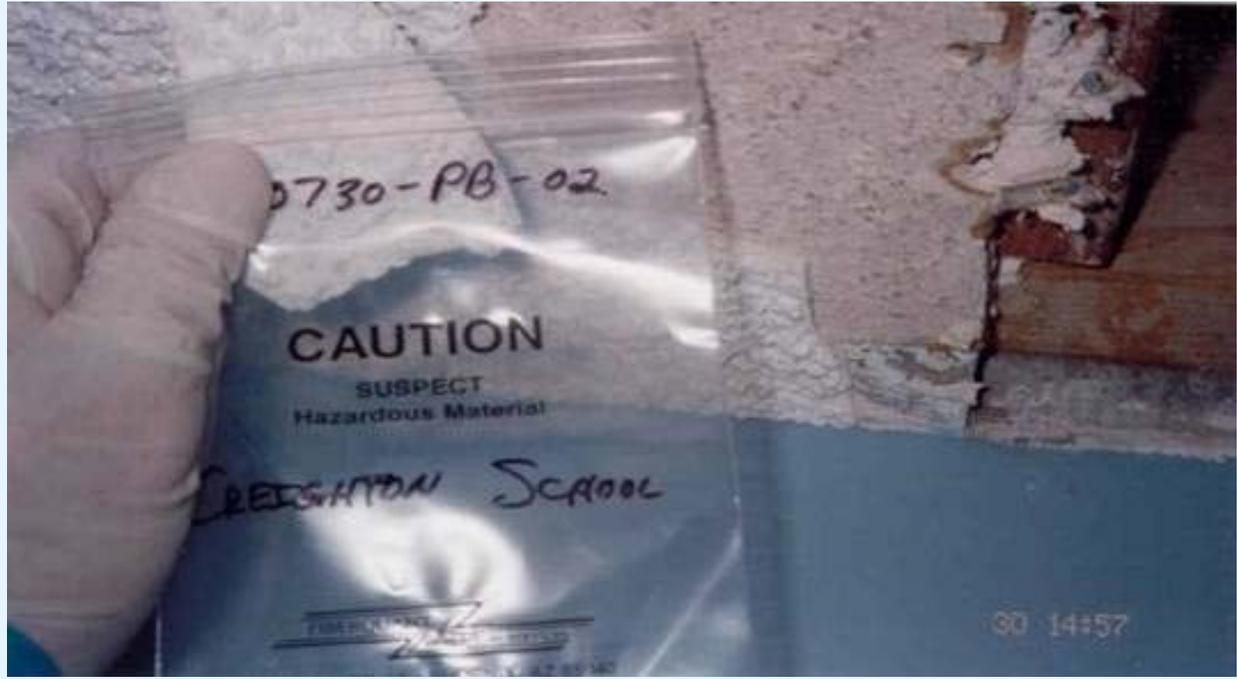
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Prior to Commencing Demolition or Renovation

FOR MORE CONSOLIDATE
REUSABLE TOTE BAGS
ELECTRICITY MORE
REFUEL AFTER DARK
RAKE MORE

Thoroughly INSPECT the facility to identify all asbestos!!



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Asbestos Waste of Concern from Demolition & Renovation Activities

MORE CONSOLIDATE
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REFUEL AFTER DARK
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**REGULATED ASBESTOS
CONTAINING MATERIAL**

→ **(RACM)** ←

Other Major Requirements for Demolition or Renovation Activities

RACM

- Inspect to identify all asbestos
- NESHAP notification to EPA
- Required removal before disturbance
- Proper procedures for removal
- Proper waste disposal
- Waste shipment records



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Asbestos Categories

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Asbestos Categories

- Friable (RACM)
- Category I (CAT I) non-friable*
- Category II (CAT II) non-friable*

Each Type is Greater than 1% Asbestos

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Friable Asbestos

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Asbestos-containing material that when dry can be crumbled, pulverized or reduced to powder by hand pressure



Non-Friable ACM Categories

Category I (CAT I) non-friable
Resilient/pliable roofing, flooring, packings, gaskets, and other pliable materials and not likely to become friable



Non-Friable ACM Categories

Category II (CAT II) non-friable

All other non-friable materials which are removed intact before demo, generating non-friable waste (typically asbestos-containing cementitious products)



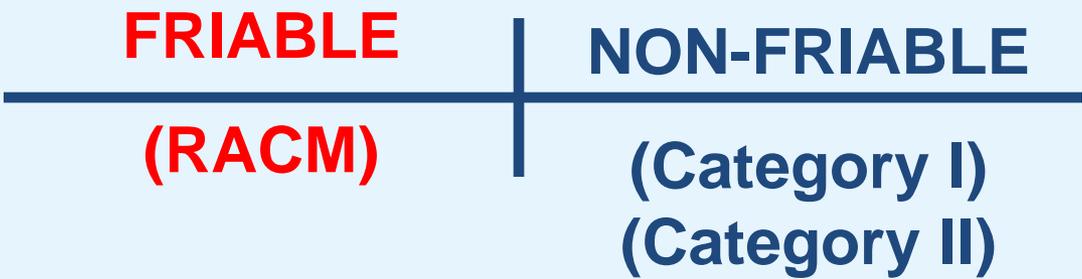
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- Friable ACM
- Category I non-friable which has become friable
- Category I non-friable which has been/will be sanded, ground, cut or abraded (making it friable)
- Category II non-friable which probably will become/has become friable
- RACM as an EPA ruling



Friable vs. Non-Friable

Identify all ACM:



Friable: Fully regulated **(RACM)**

Category I: Generally not regulated

Category II: Required removal pre-demolition

Not regulated for disposal

NESHAP Threshold Amounts of RACM

for Demolition or Renovation Notification

260 linear feet

160 square feet

**35 cubic feet if unable to measure
otherwise (i.e. waste)**

Renovation below threshold:

No regulation

Renovation above threshold:

Renovation notification

Demolition below threshold:

Demolition notification only (even if no asbestos)



NESHAP Applicability

Demolition

Inspection

Renovation

- Notification
- Required removal
- Wet methods
- Trained person
- Leak-tight waste
- Labeling
- Proper disposal

- Notification
- Required removal
- Wet methods
- Trained person
- Leak-tight waste
- Labeling
- Proper disposal

At or above threshold

RACM

260 linear ft. 160 square ft. 35 cubic ft.

Below threshold

**Demolition notification
(even with no
asbestos)**

No regulation

Maricopa County Asbestos Regulation – Rule 370, 301.8

- Inspection within 12 months of commencement
- AHERA certified building inspector
- AHERA certified workers and contractor/supervisors
- Certifications & color photo IDs on site
- Inspection viewing devices (e.g. view port)
- Use of amended water for renovation
- Transparent wrapping

- Common Information Needed for NESHAP Notification
 - Owner / Contractor – Legal Names
 - Proper Address and Parcel Information
 - Correct ACM amounts for both renovation and demolition
- Ten Day Waiting Period
 - Exception of Ordered Demolition & Emergency Renovation
- Maricopa County NESHAP Notification vs. City Permits

Inspections

- Total Number of Inspections – July 2009 to June 2010
 - Non-notified – 312
 - Notified – 400
- Case Load
 - 136 in 2009
 - 87 in 2010
 - Failure to thoroughly inspect and notify – most common



CLEAN AIR MAKE MORE

WALK MORE USE CFLS MORE
ERRANDS MORE RIDE PUBLIC
MORE CONSIDER SOLAR MORE
REDUCE WOODBURNING MORE
MORE RIDE THE BUS MORE

USE MORE CONSOLIDATE
REUSABLE TOTE BAGS
CONSERVE ELECTRICITY MORE
REFUEL AFTER DARK
RAKE MORE

Regulated?



Regulated?



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Example of a Demolition

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USE REUSABLE TOTE BAGS
CONSERVE ELECTRICITY MORE
REFUEL AFTER DARK
DRIVE MORE RAKE MORE



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Thorough Inspection

DRIVE HYBRIDS MORE CONSOLIDATE
ERRANDS MORE RIDE PUBLIC
TRANSPORTATION MORE USE ENERGY
EFFICIENT APPLIANCES MORE CARRY
REUSABLE TOTE BAGS MORE
CONSIDER SOLAR MORE RUN COLD
WATER CYCLES MORE USE
REUSABLE CONTAINERS MORE
CONSERVE ELECTRICITY MORE
REDUCE WOODBURNING MORE
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Example of Demolition

USE MORE CONSOLIDATE
REUSABLE TOTE BAGS
CONSERVE ELECTRICITY MORE
REFUEL AFTER DARK
DRIVE MORE RAKE MORE



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“Emergency”

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Fire Damage w/RACM

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Example of RACM

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Demolition

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Contact Information

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Valerie Brodeur

Asbestos NESHAP Inspector

602-527-6429

BrodeurV@mail.maricopa.gov



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Other Contact Information

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REFUEL AFTER DARK
DRIVE MORE RAKE MORE



Scott I. MacDonald
Asbestos NESHAP Inspector Supervisor
602-506-6708
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Robert S. Trotter
Asbestos NESHAP Coordinator
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trotter.robert@epamail.epa.gov



Brian Jones
Environmental Program Specialist
602-771-2333
1-800-234-5677



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Other Asbestos Information

- Maricopa County Air Quality Department Complaint Line:
602-372-2703 or 602-506-6010
- Maricopa County Air Quality Department asbestos website:
www.maricopa.gov/aq/divisions/compliance/air/asbestos_neshap/
- ADEQ AQ asbestos website:
www.azdeq.gov/environ/air/asbestos/index.html
- EPA asbestos website: **www.epa.gov/asbestos/**

