

ASBESTOS



Overview

- Health Effects of Asbestos
- Reducing Public Exposure to Asbestos
- Asbestos National Emission Standard for Hazardous Air Pollutants
- CARB Asbestos Enforcement Program

What is “ASBESTOS”

“Asbestos” is a term used to describe six naturally occurring minerals:

- 1) Serpentine Group:
 - Chrysotile
- 2) Amphiboles Group:
 - Crocidolite
 - Amosite
 - Anthophyllite
 - Actinolite
 - Tremolite

Health Effects Related to Asbestos Exposure

- **Lung Cancer** - a relatively common form of cancer which has been linked to smoking and a variety of occupational exposures.
- **Asbestosis** - a non-cancerous lung disease related to diffuse fibrous scarring of the lungs.
- **Mesothelioma** - a rare cancer of the thin membranes lining the lungs, chest, and abdominal cavity.
- ARB identified asbestos as a Toxic Air Contaminant
- U.S. EPA classifies asbestos as a Hazardous Air Pollutant

Reducing Public Exposure to Asbestos in California

- National Emission Standards for Hazardous Air Pollutants (NESHAP)
Title 40 Code of Federal Regulations Part 61, Subpart M

- California law establishes the Asbestos NESHAP as an Airborne Toxic Control Measure

Health and Safety Code §39658(b)

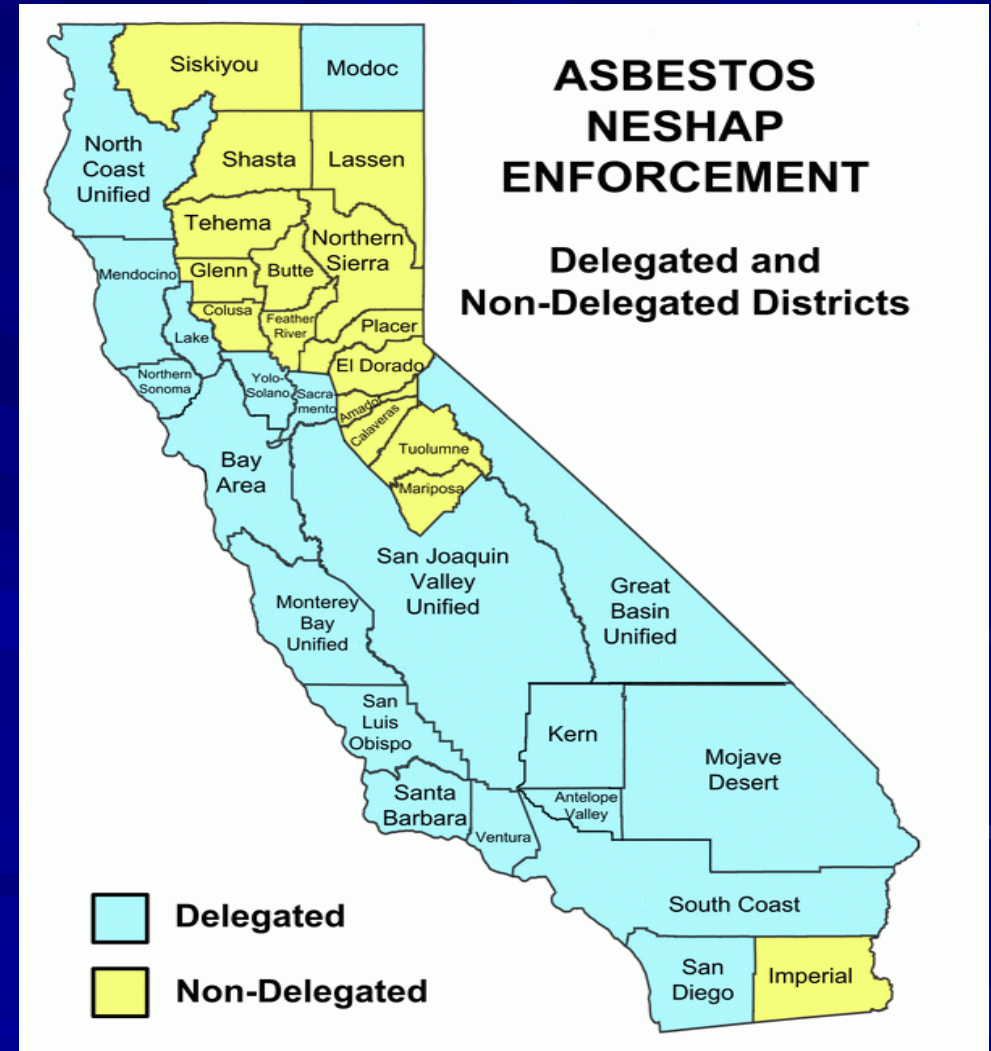
- Airborne Toxic Control Measures for Naturally Occurring Asbestos
 - Construction, Grading, Quarrying, and Surface Mining Operations
 - Surfacing Applications

**ASBESTOS NATIONAL EMISSION
STANDARDS FOR HAZARDOUS AIR
POLLUTANTS**

California's Asbestos NESHAP Programs

- 17 air districts authorized to enforce Asbestos NESHAP

- CARB staff enforces Asbestos NESHAP as an Asbestos ATCM in 16 air districts



Asbestos NESHAP History

Year	Requirement
1973	<ul style="list-style-type: none">• Inclusion of demolition projects• Ban spray-applied asbestos (<i>e.g. fireproofing</i>)
1975	<ul style="list-style-type: none">• Inclusion of renovation projects• Ban wet-applied asbestos (<i>e.g. pipe/boiler insulation</i>)• Ban pre-molded asbestos insulation
1978	<ul style="list-style-type: none">• Establishment of work practices• Ban decorative uses of asbestos (<i>e.g. textured ceilings</i>)
1984	<ul style="list-style-type: none">• Revised work practices
1990	<ul style="list-style-type: none">• Notification• Waste disposal
1994	<ul style="list-style-type: none">• Addressed roof removal

Asbestos NESHAP Applicability

- Applies to owners or operators of demolition or renovation projects
 - ≥ 260 linear feet on pipes
 - ≥ 160 square feet of surface area
 - ≥ 35 “off facility components”
- Applies to all types of facilities
 - Exemptions for small residential buildings with 4 or fewer units

Overview of NESHAP Requirements

- Thorough inspection of facilities for asbestos containing materials before work begins
- Notification requirements
 - 10 work-days before beginning regulated work
 - ASAP but no later than the following working day for emergency renovations and ordered demolitions
- Procedures for asbestos emission control
 - Controlled removal to avoid disturbance during demolition or renovation
- Waste handling and disposal requirements



CARB Asbestos Enforcement Program

- Receive, review and process renovation and demolition project notification forms and inspection reports
- Investigate complaints and inspect projects for compliance
- Issue and resolve Notices of Violation
- Multi-state, multi-district coordination
- Inspector and contractor training

Asbestos NESHAP Working Group

- Two annual meetings of asbestos enforcement personnel from:
 - CARB
 - Air Districts
 - Arizona
 - Hawaii
 - Nevada
 - U.S. EPA Region 9 asbestos
- Share emerging issues and facilitate communication

CARB Asbestos Training Program

- Overview of Asbestos NESHAP/ATCM requirements to regulated communities
- Enforcement training for Air District staff
- Assist building departments and regulated community

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