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

<table>
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<th>Year</th>
<th>Requirement</th>
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| 1973 | • Inclusion of demolition projects  
      • Ban spray-applied asbestos (*e.g.* *fireproofing*) |
| 1975 | • Inclusion of renovation projects  
      • Ban wet-applied asbestos (*e.g.* *pipe/boiler insulation*)  
      • Ban pre-molded asbestos insulation |
| 1978 | • Establishment of work practices  
      • Ban decorative uses of asbestos (*e.g.* *textured ceilings*) |
| 1984 | • Revised work practices |
| 1990 | • Notification  
      • Waste disposal |
| 1994 | • 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
Contacts

Ahmad “AJ” Najjar – Program Coordinator
(916) 229-0349
aj.najjar@arb.ca.gov

Jeff Lindberg – Program Manager
(916) 229-0756
jeff.lindberg@arb.ca.gov

Notifications submitted to: asbestos@arb.ca.gov