

# Chapter 12.10

## Signs, Warnings, and Communications of Hazards

### 1. Requirement

Communicate the hazards of working with or around asbestos materials to employees and building occupants by signs, labels, and employee information and training. Information in this chapter is based on the OSHA requirements found in 29 CFR 1926.1101.

### 2. Signs and labels for regulated areas and asbestos waste

You shall follow these requirements for signs and labels:

- a. Post signs, as required in this section and 29 CFR 1926.1101, at a distance far enough away from the immediate regulated area to permit an employee to read the sign and take the necessary protective measures to avoid exposure.
- b. Additional signs may need to be posted as directed by the competent person after construction of workplace enclosures or during asbestos-related activities.
- c. Barricade all regulated areas for Class I, II, and III work and for Class IV emergency response with ropes, tapes, or enclosures, and post signs that bear the following legend:

**DANGER**  
**ASBESTOS**  
**CANCER AND LUNG DISEASE HAZARD**  
**AUTHORIZED PERSONNEL ONLY**  
**RESPIRATORS AND PROTECTIVE CLOTHING ARE**  
**REQUIRED IN THIS AREA**

The purpose of this sign is to alert employees and building occupants of the existence of the regulated area, thereby minimizing the number of people in the area by alerting them to the requirement that they shall have to have authorization to enter and that they take appropriate protective measures before and during entry.

- d. Label all asbestos products and containers of asbestos products with the following information:

**DANGER**  
**CONTAINS ASBESTOS FIBERS**  
**AVOID CREATING DUST**  
**CANCER AND LUNG DISEASE HAZARD**  
**AVOID BREATHING ASBESTOS**

## **Part 12, Asbestos Control Requirements**

- e. Signs for waste containers are discussed in Chapter 12.13 of this handbook. All signs and labels shall be legible, in English, and prominently displayed on the container. You may use commercially available signs and labels if they meet the above requirements.
- f. No label is required in instances where:
  - 1. Asbestos fibers have been modified by a bonding agent, coating or binder, or other material that prevents exposure above the action level. (**Note:** This exemption doesn't apply to removal operations.)
  - 2. Asbestos is present in a product concentration at less than 1%.

### **3. Information and training for asbestos workers**

All employees who may be exposed to airborne asbestos concentrations in the course of their daily work assignments, or in excess of the PEL, shall receive training as required by Chapter 12.5 of this handbook and 29 CFR 1926.1101 before, or at the time of, initial assignment.

### **4. Communication to employees**

Each NASA or contractor organization that undertakes asbestos-related work shall inform facility occupants and employees of the nature of their work and the requirements for regulated areas, or any other restrictions. This requirement can be met by notifying and working with the appropriate facility manager and the work area supervisor(s), manager(s), or division chief(s) responsible for the area(s) within the affected facility. You shall never start or continue an asbestos-related activity if affected building occupants have not been notified.

### **5. Awareness training for building occupants**

Cover general awareness training about the presence of asbestos in buildings and the "dos and don'ts" concerning regulated areas and suspected asbestos debris in the annual hazard communication training required of all on-site employees.

### **6. Labeling of mechanical rooms and conference rooms with exposed asbestos-containing materials**

You shall post the following in mechanical and conference rooms:

- a. Post the following sign on the exterior door(s) of mechanical rooms with exposed SAI:

# **Danger**

**Authorized Personnel Only**  
**Asbestos Insulation is Present in This Area**  
**Cancer and Lung Disease Hazard**  
**Avoid Creating Dust**

Work Practices which disturb asbestos materials must be done in accordance with 29 CFR 1926.1101 and Part 12, "Asbestos Control Requirements," of JPR 1700.1.

For More Information Contact the JSC Asbestos Program Manager

Extension 33120

- b. Place danger labels in English and Spanish near the ceiling in areas and rooms with exposed acoustical or decorative SAI. These labels shall read:

**Ceiling Materials Contain Asbestos**

**DO NOT DISTURB – AVOID CREATING DUST**

**DANGER!**

**Cancer and Lung Disease Hazard**

**ANY activity disturbing ASBESTOS**

**must comply with OSHA**

**7. Labeling of buildings with asbestos-containing materials**

In buildings at JSC that have ACM, post the following sign on the exterior doors.

**Notice**

**This Building Contains Materials Which Contain Asbestos Fibers.  
Periodic air monitoring by JSC has shown that airborne fiber  
concentrations in this building satisfy OSHA and EPA standards.**

**Asbestos Fibers May be Present in the Following Building Materials**  
Sprayed Applied Insulation and Acoustical Decoration

Thermal System (Pipe) Insulation

Floor Tiles and Sheet Flooring

Sheetrock/Wallboard

Roofing and Siding Materials

Ceiling Tiles

**DANGER!** Cutting, drilling, grinding, sanding or otherwise damaging these or any other building materials which contain asbestos can cause fiber release and asbestos exposure. These materials can cause cancer and lung disease and should not be disturbed unless proper precautions are followed per OSHA 29 CFR 1926.1101 and Part 12, "Asbestos Control Requirements," JPR 1700.1. If any of these materials are found damaged, notify the Facility Manager, Operations Center at extensions 32038 or 33061, or Occupational Health at extension 36726. For more information call the JSC Asbestos Program Manger at extension 33120.