



Shell Oil Company
Interoffice Memorandum

NOVEMBER 21, 1983

FROM: J. L. RIVARD

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SUBJECT: OSHA EMERGENCY TEMPORARY STANDARD FOR ASBESTOS

On November 4, 1983, OSHA published an Emergency Temporary Standard (ETS) for asbestos, effective immediately. Although the Asbestos Information Association has filed suit, the ETS remains in effect. Additionally, OSHA has indicated their intent to step up asbestos enforcement activity. In this regard, EPA will be advising OSHA of planned asbestos-demolition jobs, thereby increasing the probability of a related OSHA inspection. The ETS applies to general industry, construction, and maritime. States with OSHA-approved plans are expected to adopt a comparable standard within 30 days. The ETS also constitutes a Notice of Proposed Rulemaking for the permanent standard. Under the Act, a permanent standard must be published within six months of an ETS. Meanwhile, all provisions of the existing asbestos standard §1910.1001 continue to apply, except to the extent modified by the ETS.

While OSHA calls for comments on this ETS, our intent is not to participate in an ETS debate or in the subsequent rulemaking for the permanent standard. Rather, Shell's efforts should be directed towards compliance. The following may help ensure a rational approach to compliance.

ETS REQUIREMENTS (COPY ATTACHED)

The ETS establishes a permissible exposure level (PEL) of 0.5 fibers per cc of air for an 8-hour time weighted average (TWA), a four-fold reduction from the current PEL of 2.0 fibers per cc.

The ETS permits any combination of engineering controls, work practices, and personal protective equipment to achieve compliance with the new PEL. However, the requirement of the existing standard §1910.1001(c) to utilize feasible engineering controls and work practices to reduce exposures to the 2.0 fibers/cc level remains in effect.

The ETS requires that within 30 days (i.e., by December 4, 1983), the employer shall institute a training program for all employees exposed "in excess of 0.5 fibers/cc, without regard to the use of respirators. . . ." (emphasis added).

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The ETS further requires selection of specific types of respiratory protection and the use of warning signs at each location where exposure may exceed the new TWA PEL. The ETS makes no changes in medical surveillance.

EXISTING STANDARD (COPY ATTACHED)

The existing standard §1910.1001 remains in effect, except to the extent modified by the ETS. The remaining provisions of the existing standard include:

- ° A ceiling PEL of 10 fibers/cc
- ° Methods of compliance
 - (1) Engineering controls (to achieve compliance with the old PEL of 2.0 fibers/cc)
 - (2) Work practices, including wet work methods
- ° Personal protective equipment
 - (1) Respiratory protection program
 - (2) Special clothing, change rooms, and laundering
- ° Caution signs and labels (Note - The ETS relieves some of the specificity pertaining to signs.)
- ° Housekeeping
- ° Recordkeeping
- ° Medical surveillance
- ° (Note that the existing standard has no specific training requirements. However, many locations may already have an asbestos training program.)

COMPLIANCE PLANNING

- ° For workplaces meeting the new PEL

Functions and locations with asbestos compliance programs in place and with monitoring data confirming that exposures do not exceed the new PEL are not required to take any additional action to comply with the ETS, other than to ensure that respirator selection (when needed) is in accord with the new requirements.

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Even so, in view of the increased OSHA enforcement activity, it may be useful for such functions and locations to review their asbestos compliance program and document that past exposures have not exceeded the new PEL. Further, it may be prudent to inform affected employees of the ETS and provide refresher training. In this regard, the Shell Training Resource Program H-140, Asbestos In The Workplace provides an excellent training tool, when coupled with an advisory regarding the new PEL. In addition, review of the Shell medical surveillance program for asbestos should be considered. Guidance regarding that program is contained in your Health and Safety Compliance Review Manual.

° For workplaces not meeting the new PEL

Functions or locations with monitoring data showing exposure above the new PEL will be required to implement the training provisions of the ETS. Additionally, those without well-documented asbestos compliance programs should consider strengthening their overall program. A suggested plan follows.

- (1) Inform affected employees of the existence and provisions of the new ETS. A sample notice is attached.
- (2) Initiate a training program for affected employees. Target earliest training for those who may routinely be exposed to asbestos (e.g., insulators, brake mechanics, carpenters working with asbestos-transite). Ensure training of any employees assigned to particular asbestos-demolition jobs, before such jobs are performed. The Asbestos Training Resource Program can be used as one element of this training.
- (3) Review the medical examination program to ensure that the local program is up-to-date (see your Health and Safety Compliance Review Manual).

° For all workplaces

Notify contractors of the new ETS and Shell Oil Company's expectation that their programs will comply.

Questions regarding the ETS, suggested compliance planning, or available monitoring data can be referred to J. L. Rivard or C. F. Phillips, as appropriate. Questions pertaining to medical surveillance should be directed to Corporate Medical.



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Attachments:

- (1) Emergency Temporary Standard
- (2) Existing Standard §1910.1001
- (3) Suggested Employee Notice

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PART 1910—(AMENDED)

Section 1910.1001 of Part 1910 of Title 29 of the Code of Federal Regulations is hereby amended by adding a new paragraph (k) reading as follows:

§ 1910.1001 Asbestos.

(k) *Emergency temporary standard effective November 4, 1983.*—(1) *Scope.* This emergency temporary standard is issued pursuant to section 6(c) of the Act and applies to all workplaces where employees may be exposed to asbestos in all industries covered by the Act, including, general industry, construction and maritime. Except to the extent modified by this emergency temporary standard all provisions of § 1910.1001 remain in effect.

(2) *Permissible levels of exposure.* The 8-hour time-weighted average airborne concentration of asbestos fibers to which any employee may be exposed shall not exceed one-half (0.5) fiber, longer than 5 micrometers, per cubic centimeter of air, as determined by the method prescribed in paragraph (c) of this section.

(3) *Methods of compliance with the emergency temporary standard.* Notwithstanding any other requirements of this section, compliance with the reduced exposure limit of 0.5 f/cc shall be achieved by any feasible combination of engineering controls, work practices, and personal protective equipment and devices.

(4) *Employee information and training.*—(i) As soon as possible, but not later than thirty (30) days from the effective date of this emergency temporary standard, the employer shall institute a training program for all employees exposed to airborne concentrations of asbestos in excess of

0.5 f/cc, without regard to the use of respirators and shall assure their participation in the program during the effective period of this emergency temporary standard.

(ii) The employer shall assure that each such employee is informed of the following:

(A) The health effects associated with asbestos exposure;

(B) The relationship between asbestos and smoking in producing lung cancer;

(C) The nature of operations which could result in exposure to asbestos and necessary protective steps to minimize exposure including, as applicable, engineering controls, work practices, respirators, housekeeping and protective clothing;

(D) The purpose, proper use, fitting instructions and limitations of respirators permitted by the standard; and

(E) A review of all the provisions contained in 1910.1001.

(5) *Respiratory protection during the ETS.* Notwithstanding any other requirement of this section, where respirators are used to achieve the permissible exposure limit of 0.5 f/cc they shall be selected according to Table 1.

(6) *Warning signs during the ETS.* In addition to the requirements of paragraph (g)(1) of this section, legible signs warning of the health hazards of asbestos shall be provided and displayed at each location where airborne concentrations of asbestos fibers may exceed 0.5 f/cc.

TABLE 1

Respiratory Protection
For Airborne Concentrations of Asbestos

Airborne Concentration of Asbestos (TWA)	Required Respirator ¹
Not in excess of 5 f/cc (10 X PEL)	Reusable or single use air purifying respirator
Not in excess of 50 f/cc (100 X PEL)	Full facepiece air purifying respirator, or a powered air purifying respirator
Greater than 50 f/cc	A type "C" continuous flow or pressure demand, supplied air respirator.

¹ Respirators specified for high concentrations may be used at lower concentrations of asbestos.

(Secs. 6(b), 6(c), 6(e) and 6(g), Pub. L. 91-584, 84 Stat. 1593, 1596, 1599, 1001; 29 U.S.C. 655, 657; Sec. 107, Pub. L. 91-584, 83 Stat. 98 (40

U.S.C. 333); 29 CFR Part 1911, Secretary of Labor's Order No. 9-83 (48 FR 35736))
(FR Doc. 83-30879 Filed 11-3-83; 1:45 pm)
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§ 1910.1001 Asbestos.

(a) *Definitions.* For the purpose of this section, (1) "Asbestos" includes chrysotile, amosite, crocidolite, tremolite, anthophyllite, and actinolite.

(2) "Asbestos fibers" means asbestos fibers longer than 5 micrometers.

(b) *Permissible exposure to airborne concentrations of asbestos fibers.*—(1) *Standard effective July 7, 1972.* The 8-hour time-weighted average airborne concentrations of asbestos fibers to which any employee may be exposed shall not exceed five fibers, longer than 5 micrometers, per cubic centimeter of air, as determined by the method prescribed in paragraph (e) of this section.

(2) *Standard effective July 1, 1976.* The 8-hour time-weighted average airborne concentrations of asbestos fibers to which any employee may be exposed shall not exceed two fibers, longer than 5 micrometers, per cubic centimeter of air, as determined by the method prescribed in paragraph (e) of this section.

(3) *Ceiling concentration.* No employee shall be exposed at any time to airborne concentrations of asbestos fibers in excess of 10 fibers, longer than 5 micrometers, per cubic centimeter of air, as determined by the method prescribed in paragraph (e) of this section.

(c) *Methods of compliance.*—(1) *Engineering methods.* (i) *Engineering controls.* Engineering controls, such as, but not limited to, isolation, enclosure, exhaust ventilation, and dust collection, shall be used to meet the exposure limits prescribed in paragraph (b) of this section.

(ii) *Local exhaust ventilation.* (a) Local exhaust ventilation and dust collection systems shall be designed, constructed, installed, and maintained in accordance with the American National Standard Fundamentals Governing the Design and Operation of Local Exhaust Systems, ANSI Z9.2-1971, which is incorporated by reference herein.

(b) See § 1910.6 concerning the availability of ANSI Z9.2-1971, and the maintenance of a historic file in connection therewith. The address of the American National Standards Institute is given in § 1910.100.

(iii) *Particular tools.* All hand-operated and power-operated tools which may produce or release asbestos fibers in excess of the exposure limits prescribed in paragraph (b) of this section, such as, but not limited to, saws, scorers, abrasive wheels, and drills, shall be provided with local exhaust ventilation systems in accordance with subdivision (II) of this subparagraph.

tems in accordance with subdivision (II) of this subparagraph.

(2) *Work practices.*—(i) *Wet methods.* Insofar as practicable, asbestos shall be handled, mixed, applied, removed, cut, scored, or otherwise worked in a wet state sufficient to prevent the emission of airborne fibers in excess of the exposure limits prescribed in paragraph (b) of this section, unless the usefulness of the product would be diminished thereby.

(ii) *Particular products and operations.* No asbestos cement, mortar, coating, grout, plaster, or similar material containing asbestos shall be removed from bags, cartons, or other containers in which they are shipped, without being either wetted, or enclosed, or ventilated so as to prevent effectively the release of airborne asbestos fibers in excess of the limits prescribed in paragraph (b) of this section.

(iii) *Spraying, demolition, or removal.* Employees engaged in the spraying of asbestos, the removal, or demolition of pipes, structures, or equipment covered or insulated with asbestos, and in the removal or demolition of asbestos insulation or coverings shall be provided with respiratory equipment in accordance with paragraph (d) (3) (III) of this section and with special clothing in accordance with paragraph (d) (3) of this section.

(d) *Personal protective equipment.*—(1) Compliance with the exposure limits prescribed by paragraph (b) of this section may not be achieved by the use of respirators or shift rotation of employees, except:

(i) During the time period necessary to install the engineering controls and to institute the work practices required by paragraph (c) of this section;

(ii) In work situations in which the methods prescribed in paragraph (c) of this section are either technically not feasible or feasible to an extent insufficient to reduce the airborne concentrations of asbestos fibers below the limits prescribed by paragraph (b) of this section; or

(iii) In emergencies.

(iv) Where both respirators and personnel rotation are allowed by subdivisions (i), (ii), or (iii) of this subparagraph, and both are practicable, personnel rotation shall be preferred and used.

(2) Where a respirator is permitted by subparagraph (1) of this paragraph, it shall be selected from among those approved by the Bureau of Mines, Department of the Interior, or the National Institute for Occupational Safety and Health, Department of Health, Education, and Welfare, under the provisions of 30 CFR Part 11 (37 F.R. 6244, Mar. 25, 1972), and shall be used in accordance with subdivisions (i), (ii), (iii), and (iv) of this subparagraph.

(i) *Air purifying respirators.* A reusable or single use air purifying respirator, or a respirator described in subdivision (ii) or (iii) of this subparagraph, shall be used to reduce the concentrations of

airborne asbestos fibers in the respirator below the exposure limits prescribed in paragraph (b) of this section, when the ceiling or the 8-hour time-weighted average airborne concentrations of asbestos fibers are reasonably expected to exceed no more than 10 times those limits.

(ii) *Powered air purifying respirators.* A full facepiece powered air purifying respirator, or a powered air purifying respirator, or a respirator described in subdivision (iii) of this subparagraph, shall be used to reduce the concentrations of airborne asbestos fibers in the respirator below the exposure limits prescribed in paragraph (b) of this section, when the ceiling or the 8-hour time-weighted average concentrations of asbestos fibers are reasonably expected to exceed 10 times, but not 100 times, those limits.

(iii) *Type "C" supplied-air respirators.* continuous flow or pressure-demand class. A type "C" continuous flow or pressure-demand, supplied-air respirator shall be used to reduce the concentrations of airborne asbestos fibers in the respirator below the exposure limits prescribed in paragraph (b) of this section, when the ceiling or the 8-hour time-weighted average airborne concentrations of asbestos fibers are reasonably expected to exceed 100 times those limits.

(iv) *Establishment of a respirator program.* (a) The employer shall establish a respirator program in accordance with the requirements of the American National Standards Practices for Respiratory Protection, ANSI Z88.2-1969, which is incorporated by reference herein.

b. See § 1910.6 concerning the availability of ANSI Z88.2-1969 and the maintenance of an historic file in connection therewith. The address of the American National Standards Institute is given in § 1910.100.

(c) No employee shall be assigned to tasks requiring the use of respirators if, based upon his most recent examination, an examining physician determines that the employee will be unable to function normally wearing a respirator, or that the safety or health of the employee or other employees will be impaired by his use of a respirator. Such employee shall be rotated to another job or given the opportunity to transfer to a different position whose duties he is able to perform with the same employer, in the same geographical area and with the same seniority, status, and rate of pay he had just prior to such transfer, if such a different position is available.

(3) *Special clothing.* The employer shall provide, and require the use of, special clothing, such as coveralls or similar whole body clothing, head coverings, gloves, and foot coverings for any employee exposed to airborne concentrations of asbestos fibers, which exceed the ceiling level prescribed in paragraph (b) of this section.

(4) *Change rooms.* (i) At any fixed place of employment exposed to airborne concentrations of asbestos fibers in excess of the exposure limits prescribed in paragraph (b) of this section, the em-

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ployer shall provide change rooms for employees working regularly at the place.

(ii) **Clothes lockers:** The employer shall provide two separate lockers or containers for each employee, so separated or isolated as to prevent contamination of the employee's street clothes from his work clothes.

(iii) **Laundrying:** (a) Laundrying of asbestos contaminated clothing shall be done so as to prevent the release of airborne asbestos fibers in excess of the exposure limits prescribed in paragraph (b) of this section.

(b) Any employer who gives asbestos-contaminated clothing to another person for laundrying shall inform such person of the requirement in (a) of this subdivision to effectively prevent the release of airborne asbestos fibers in excess of the exposure limits prescribed in paragraph (b) of this section.

(c) Contaminated clothing shall be transported in sealed impermeable bags, or other closed, impermeable containers, and labeled in accordance with paragraph (g) of this section.

(e) **Method of measurement.** All determinations of airborne concentrations of asbestos fibers shall be made by the membrane filter method at 400-450 X (magnification) (4 millimeter objective) with phase contrast illumination.

(f) **Monitoring—(1) Initial determinations.** Within 6 months of the publication of this section, every employer shall cause every place of employment where asbestos fibers are released to be monitored in such a way as to determine whether every employee's exposure to asbestos fibers is below the limits prescribed in paragraph (b) of this section. If the limits are exceeded, the employer shall immediately undertake a compliance program in accordance with paragraph (c) of this section.

(2) **Personal monitoring—(i) Samples** shall be collected from within the breathing zone of the employee, on membrane filters of 0.8 micrometer porosity mounted in an open-face filter holder. Samples shall be taken for the determination of the 8-hour time-weighted average airborne concentrations and of the ceiling concentrations of asbestos fibers.

(ii) **Sampling frequency and patterns.** After the initial determinations required by subparagraph (1) of this paragraph, samples shall be of such frequency and pattern as to represent with reasonable accuracy the levels of exposure of employees. In no case shall the sampling be done at intervals greater than 6 months for employees whose exposure to asbestos may reasonably be foreseen to exceed the limits prescribed by paragraph (b) of this section.

(3) **Environmental monitoring—(i)** samples shall be collected from areas of a work environment which are representative of the airborne concentrations of asbestos fibers which may reach the breathing zone of employees. Samples shall be collected on a membrane filter of 0.8 micrometer porosity mounted in

an open-face filter holder. Samples shall be taken for the determination of the 8-hour time-weighted average airborne concentrations and of the ceiling concentrations of asbestos fibers.

(ii) **Sampling frequency and patterns.** After the initial determinations required by subparagraph (1) of this paragraph, samples shall be of such frequency and pattern as to represent with reasonable accuracy the levels of exposure of the employees. In no case shall sampling be at intervals greater than 6 months for employees whose exposures to asbestos may reasonably be foreseen to exceed the exposure limits prescribed in paragraph (b) of this section.

(4) **Employee observation of monitoring.** Affected employees, or their representatives, shall be given a reasonable opportunity to observe any monitoring required by this paragraph and shall have access to the records thereof.

(g) **Caution signs and labels.** (1) **Caution signs.** (i) **Posting.** Caution signs shall be provided and displayed at each location where airborne concentrations of asbestos fibers may be in excess of the exposure limits prescribed in paragraph (b) of this section. Signs shall be posted at such a distance from such a location so that an employee may read the signs and take necessary protective steps before entering the area marked by the signs. Signs shall be posted at all approaches to areas containing excessive concentrations of airborne asbestos fibers.

(ii) **Sign specifications.** The warning signs required by subdivision (1) of this subparagraph shall conform to the requirements of 29" x 14" vertical format signs specified in §1910.145(d)(4), and to this subdivision. The signs shall display the following legend in the lower panel, with letter sizes and styles of a visibility at least equal to that specified in this subdivision.

Legend	Notation
Asbestos.....	1" Sans Serif Gothic or Block.
Dust Hazard.....	¾" Sans Serif Gothic or Block.
Avoid Breathing Dust....	¾" Gothic.
Wear Assigned Protective Equipment.	¾" Gothic.
Do Not Remain In Area Unless Your Work Requires It.	¾" Gothic.
Breathing Asbestos Dust May Be Hazardous To Your Health.	14 point Gothic.

Spacing between lines shall be at least equal to the height of the upper of any two lines.

(2) **Caution labels—(i) Labeling.** Caution labels shall be affixed to all raw materials, mixtures, scrap, waste, debris, and other products containing asbestos fibers, or to their containers, except that no label is required where asbestos fibers have been modified by a bonding agent, coating, binder, or other material so that

during any reasonably foreseeable use, handling, storage, disposal, processing, or transportation, no airborne concentrations of asbestos fibers in excess of the exposure limits prescribed in paragraph (b) of this section will be released.

(ii) **Label specifications.** The caution labels required by subdivision (1) of this subparagraph shall be printed in letters of sufficient size and contrast as to be readily visible and legible. The label shall state:

Caution
Contains Asbestos Fibers
Avoid Creating Dust
Breathing Asbestos Dust May Cause Serious Bodily Harm
(h) **Housekeeping—(1) Cleaning.** All external surfaces in any place of employment shall be maintained free of accumulations of asbestos fibers if, with their dispersion, there would be an excessive concentration.

(2) **Waste disposal.** Asbestos waste, scrap, debris, bags, containers, equipment, and asbestos-contaminated clothing, consigned for disposal, which may produce in any reasonably foreseeable use, handling, storage, processing, disposal, or transportation airborne concentrations of asbestos fibers in excess of the exposure limits prescribed in paragraph (b) of this section shall be collected and disposed of in sealed impermeable bags, or other closed, impermeable containers.

(i) **Recordkeeping—(1) Exposure records.** Every employer shall maintain records of any personal or environmental monitoring required by this section. Records shall be maintained for a period of at least 20 years and shall be made available upon request to the Assistant Secretary of Labor for Occupational Safety and Health, the Director of the National Institute for Occupational Safety and Health, and to authorized representatives of either:

(2) **Access.** Employee exposure records required by this paragraph shall be provided upon request to employees, designated representatives, and the Assistant Secretary in accordance with 29 CFR 1910.20 (a)-(e) and (g)-(i). [§1910.1001(i)(2) amended at 45 F.R. 35281, May 23, 1980; effective August 21, 1980.]

(3) **Employee notification.** Any employee found to have been exposed at any time to airborne concentrations of asbestos fibers in excess of the limits prescribed in paragraph (b) of this section shall be notified in writing of the exposure as soon as practicable but not later than 5 days of the finding. The employee shall also be timely notified of the corrective action being taken.

(j) **Medical examinations—(1) General.** The employer shall provide or make available at his cost, medical examinations relative to exposure to asbestos required by this paragraph.

(2) **Preplacement.** The employer shall provide or make available to each of his employees, within 30 calendar days following his first employment in an

occupation exposed to airborne concentrations of asbestos fibers, a comprehensive medical examination, which shall include, as a minimum, a chest roentgenogram (posterior-anterior 14 x 17 inches), a history to elicit symptomatology of respiratory disease, and pulmonary function tests to include forced vital capacity (FVC) and forced expiratory volume at 1 second (FEV₁).

(3) **Annual examinations.** On or before January 31, 1973, and at least annually thereafter, every employer shall provide, or make available, comprehensive medical examinations to each of his employees engaged in occupations exposed to airborne concentrations of asbestos fibers. Such annual examination shall include, as a minimum, a chest roentgenogram (posterior-anterior 14 x 17 inches), a history to elicit symptomatology of respiratory disease, and pulmonary function tests to include forced vital capacity (FVC) and forced expiratory volume at 1 second (FEV₁).

(4) **Termination of employment.** The employer shall provide, or make available, within 30 calendar days before or after the termination of employment of any employee engaged in an occupation exposed to airborne concentrations of asbestos fibers, a comprehensive medical examination which shall include, as a minimum, a chest roentgenogram (posterior-anterior 14 x 17 inches), a history to elicit symptomatology of respiratory disease, and pulmonary function tests to include forced vital capacity (FVC) and forced expiratory volume at 1 second (FEV₁).

(5) **Recent examinations.** No medical examination is required of any employee, if adequate records show that the employee has been examined in accordance with this paragraph within the past 1-year period.

(6) **Medical records—(i) Maintenance.** Employers of employees examined pursuant to this paragraph shall cause to be maintained complete and accurate records of all such medical examinations. Records shall be retained by employers for at least 20 years.

(ii) **Access.** Records of the medical examinations required by this paragraph shall be provided upon request to employees, designated representatives, and the Assistant Secretary in accordance with 29 CFR 1910.20 (a)-(c) and (g)-(i). These records shall also be provided upon request to the Director of NIOSH. Any physician who conducts a medical examination required by this paragraph shall furnish to the employer of the examined employee all the information specified required by this paragraph, and any other medical information related to occupational exposure to asbestos fibers.

[§1910.1001(i)(6)(ii) amended at 45 F.R. 35281, May 23, 1980; effective August 21, 1980.]

END

SUGGESTED ANNOUNCEMENT
(Bulletin Board Format)

December 4, 1983

OSHA EMERGENCY TEMPORARY STANDARD FOR ASBESTOS

OSHA has issued an Emergency Temporary Standard (ETS) for asbestos, reducing the permissible exposure limit (PEL) from 2 fibers per cc of air to 0.5 fibers per cc. This new PEL is in effect now in all general industry, construction, and maritime activities. States with OSHA plans are expected to adopt a comparable standard within 30 days.

Asbestos is a health hazard when taken into the system in excessive amounts. The asbestos fibers are associated with a variety of diseases, including (1) Asbestosis - a non-malignant scarring of the lungs; (2) Bronchogenic Carcinoma - a malignancy (cancer) of the lung; (3) Mesothelioma - a malignancy of the lining of the chest cavity; and (4) cancer of the stomach, colon, and rectum. These diseases develop slowly, and usually do not become evident until many years after initial exposure. Asbestos fibers can enter the system via the breathing process or via eating or drinking. When dry, the small asbestos fibers are easily "airborne" and can contaminate the work area. Smoking drastically increases the chances of cancer occurring with asbestos exposure.

Asbestos is a mineral silicate occurring naturally as a variously colored fiber. It is non-combustible, non-conducting, and resistant to deterioration and chemical attack. Because of these properties, it has found widespread use in thermal insulation, asbestos floor tile, roofing and transite materials, gaskets, coatings, plastics, and brake linings. Because of its fibrous nature, it can be woven into cloth, or used to add strength to other materials. Asbestos is most frequently encountered within [name of location] as insulation on pipes and structures. While purchase of new insulation containing asbestos has been discontinued, asbestos insulation may be encountered in older facilities for years to come.

Whenever possible, asbestos materials should be handled in a wet state to prevent or minimize the formation of airborne asbestos fibers. Work areas shall be wet-cleaned; dry sweeping and blowing create the hazard of airborne asbestos fibers. Engineering controls, such as isolation, enclosure, exhaust ventilation, and dust collection are used to control asbestos exposures. Respiratory protection is also used to protect employees. The approved respiratory devices for asbestos are specified in the new OSHA standard. Warning signs must be posted when asbestos exposure exceeds the PEL. If you are working at a task where exposure to airborne asbestos fibers is likely, coveralls shall be worn. Laundering service will be provided or disposable coveralls used.

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Identifying labels shall be applied to waste asbestos or asbestos-containing debris if there is a likelihood that airborne concentrations of asbestos fibers could result. This label shall state, "CAUTION-CONTAINS ASBESTOS FIBERS-AVOID CREATING DUST-BREATHING ASBESTOS MAY CAUSE SERIOUS BODILY HARM." All asbestos materials will be disposed of via landfill at an approved location, in accord with EPA requirements.

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