# SAFE WORK PROCEDURES

## SOUTHWESTERN REFINING CO.

TITLE: ASBESTOS HANDLING PROCEDURES #65

DATE: Revised: 2/3/87



I. PERMISSIBLE EXPOSURE LIMIT (PEL)

A. No employee shall be exposed to an airborne concentration of asbestos, tremolite, anthophyllite, actinolite or a combination of these minerals in excess of 0.2 fiber per cubic centimeter of air as an 8-hour time-weighted average (TWA).

B. The Safety Office will be notified prior to the removal of asbestos. Exposure shall be determined from breathing zone air samples that are representative of an 8-hour TWA of each employee.

C. Employees will be notified in writing of the results of the monitoring as soon as possible.

II. ENGINEERING CONTROL AND WORK PRACTICES

Any of the following control methods shall be used to achieve compliance with the PEL

A. Vacuum cleaner equipped with HEPA filters
B. Enclosure or isolation
C. Use of wet methods, wetting agents or removal encapsulants
D. Use of glove bags
E. Prompt disposal of wastes in leak tight containers

III. RESPIRATORY PROTECTION AND PROTECTIVE CLOTHING

1A. Half face airpurifying respirators with high efficiency filters shall be worn at all times when airborne concentrations of asbestos are not in excess of 2 f/cc. For exposures exceeding 2 f/cc, respirators shall be selected in accordance with Table D4 of 1926.58.

PLAINTIFF'S EXHIBIT

KRC-379

III. RESPIRATORY PROTECTION AND PROTECTIVE CLOTHING: cont.

B. An employee shall be evaluated by a physician to determine that an employee will be able to function normally wearing a respirator,

C. Qualitative fit tests will be performed every six months.

2A. Disposable coveralls, head coverings, gloves, and foot coverings shall be worn at all times.

B. Contaminated clothing and respirator cartridges shall be placed in impermeable bags and properly labeled for disposal.

IV. HYGIENE FACILITIES AND PRACTICE

A. Protective clothing and respirators must be put on before entering the asbestos work area.

B. Before removing protective equipment, all tools shall be decontaminated, and all asbestos materials placed in disposable bags.

C. Protective clothing shall be cleaned with a HEPA vacuum before removing.

D. Wash face and respirator before removing the respirator.

E. All employees must shower after each asbestos exposure job.

V. WARNING SIGNS

A. Warning signs shall mark the asbestos work area.

B. Asbestos shall be disposed of in properly labeled bags and should include the following:

Danger
Contains asbestos fibers
Avoid creating dust
Cancer and lung disease hazard

VI. EMPLOYEE TRAINING

All employees exposed to asbestos shall be trained annually. The training shall include the following:

A. Methods of recognition

B. Health effects

C. Relationship between smoking and asbestos exposure

D. The nature of operations that could result in exposure

E. The purpose, proper use, fitting instructions, and limitations of respirators

F. Appropriate work practices

G. Medical surveillance requirements

F. Location and access to training material and information.

VII. MEDICAL SURVEILLANCE

A. Medical examination prior to initial assignment and annually thereafter shall be made available.

B. Medical examinations shall include:

1. Medical and work history directed to pulmonary, cardiovascular, and gastrointestinal systems

2. A standardized questionnaire shall be filled out, and on annual examination, the abbreviated questionnaire will be used.

3. The physical examination shall include a chest roentgenogram and a pulmonary function test. Interpretation of chest roentgenogram shall be performed by a B Reader, a board eligible/certified radiologist, or an experienced physician in pneumoconioses.

X. RECORDKEEPING cont.

D. All medical records shall be maintained for the duration of employment plus thirty years

E. Training records shall be maintained one year beyond the last date of employment.

XI. MISCELLANEOUS

A. All employees will receive asbestos training in order to become familiar with methods of recognition and appropriate work practices.

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