

ASBESTOS - SHELL & REGULATORY HISTORY

- 1946 ACGIH established MAC's (Maximum Allowable Concentrations)
MAC for asbestos was 5 mppcf. This was a guideline for IH
professionals, not a regulation or standard.

- 1968 ACGIH Notice of Intended Change to 12 f/ml >5um length
or 2 mppcf (note: mppcf to f/ml conversion uncertain).

- 1969 (5/20) Walsh-Healey Public Contracts Act
Established asbestos standard of 12 f/cc, >5 um length (TWA)
or 2 mppcf. Walsh-Healey dealt with governmental contract work.
Adopted TLV's at the time of Act.

- 1971 (May)
ACGIH Notice of Intended Change for TLV to 5 f/cc >5um length
Concentrations >5 f/ml but not to exceed 10 f/ml may be permitted
for 15 min periods each hour up to five times daily.

- 1971 (12/7) (29 CFR 1910.93a)
OSHA Emergency Temporary Standard for Asbestos
5 f/cc, >5 um length, TWA and 10 f/cc ceiling limit

- 1971 (12/7) OSHA PROGRAM DIRECTIVE #6
ASBESTOS DUST, EMERGENCY STANDARD IMPLEMENTATION

- 1972 NIOSH CRITERIA DOCUMENT OCCUPATIONAL EXPOSURE TO ASBESTOS
HSM72 -10267
Recommended 2.0 f/cc (>5 um length) 8hr TWA, no peak concentration
greater than 10 f/cc (>5 um length), max time of 15 minutes.

- 1972 (2/11) API letter to OSHA re comments on NPR on asbestos

- 1972 (2/23) OSHA SAMPLING DATA SHEET #2 ASBESTOS

- 1972 (6/12) Memo: MGR IH, HO to DISTR.LIST
OSHA ASBESTOS STANDARD Effective 7/7/72, 29 CFR 1910.1001

- 1972 (6/15) Memo: MEDICAL DIRECTOR, Public Affairs
PERM. OSHA STDS for ASBESTOS EXPOSURE, MEDICAL REQUIREMENTS

- 1972 (6/21) Memo: Mgr - DOSH, HO re: OSHA 1910.93a ASBESTOS STD
(first general industry std to be promulgated which did not
originate as national consensus std)
Memo provided brief list of requirements & Shell responsibility.

- 1972 (6/29) Memo: Mgr DOSH, HO to DISTR.
ASBESTOS STD (by 12/7/72 every workplace where fibers are released
must be monitored.

- 1972 (7/7) OSHA ASBESTOS STANDARD, EFFECTIVE DATE 29CFR 1910.1001
Exposure limit to 5 f/cc, >5 um length and then reduced to
2 f/cc on 7/1/76, no ceiling limit set
- 1972 (9/1) Memo: Medical Director, PA to DISTR.LIST
OSHA ASBESTOS STD. Response to Q's concerning the OSHA std.
- 1972 (9/7) MGR-IH, HO to DISTR.LIST
ASBESTOS STD Re: Survey to characterize employee exposures.
- 1972 (10/12) Memo: GM-Manufacturing to Location Managers
DOL/OSHA ASBESTOS EXPOSURE STANDARD.
(tests req. by 12/7/72, medicals w/ exposed employees, started by
1/31/73).
- 1972 (11/13) Memo: Med. Dir. & MGR IH to DISTR. LIST
Definition of "Exposed" in OSHA STANDARDS.
(Discussion of meaning of exposure)
- 1972 (12/1) Memo - MGR-IH, HO to DISTR.LIST
ASBESTOS (guidance on sampling - shipping samples)
- 1973 (5/29) API Memo to Comm on Medicine & Env. Health
Collaborative study of Microscopic Counting of Asbestos Samples
- 1973 (12/4) Memo, Med. Dir & MGR IH to LIST
CALIFORNIA OSH REGS ON ASBESTOS
Re: Medical exams, >1 f/cc, >5 cc length
- 1974 (1/4) Memo GM Refining-HO to REFINERY MGRS
OSHA ASBESTOS STD, Medical Exam
(additional guidelines & new exam form)
- 1974 (3/5) Memo, GM-Chemical Plants & Refineries to Refinery Managers
OSHA ASBESTOS STD AIR MONITORING PROGRAM
(median asbestos counts from 1st round generally < below 5 f/cc,
Peak counts were well below the 10 f/cc limit)
- 1976 (2/3) Memo DOSH TO list
OSHA REV. COMM CASE (GAF & VE C ON ASBESTOS)
- 1976 (12) NIOSH REVISED RECOMMENDED ASBESTOS STANDARD
DHEW (NIOSH) PUBL NO 77-169
Recommends 0.1 f/cc 8hr TWA and 0.5 f/cc for peak
- 1976 (7/1) OSHA asbestos standard of 2 f/cc 8hr TWA became effective.
Ceiling limit of 10 f/cc >5 um length, max time of 15 minutes.
- 1984 (4/12) Memo MGR, EC-M&T to DISTR
AMENDMENTS TO NEHSAP for ASBESTOS (4/5/84)
- 1984 (9/14) Memo: Mgr H&S, M&T to DISTR.LIST
ASBESTOS VS NON-ASBESTOS GASKETS

- 1986 (6/20) OSHA revises the asbestos standard to 0.2 f/cc, but does not issue a short term exposure limit.
- 1988 (9/14) OSHA amends the asbestos standard by adding an excursion limit of 1 f/cc averaged over a sample time of 30 minutes.
- 1989+ OSHA announced other proposed changes, made some changes in the standard but did not change the exposure limits.

CFP
9/3/91 - 1

