

September 9, 1991

PROFS Note

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From: HO78CFP --VM36

To: WM15PJ01--VM15

D. W. HARM

Date and time

WM15LAS --VM15

09/03/91 15:37:08

L. A. SHOOKMAN

From: C.F. Phillips, HS&E/S&IH

Subject: MORE THAN YOU WANTED TO KNOW ABOUT ASBESTOS HISTORY

Additions to my list of this morning in response to your request, plus since we keep getting questions about the 'old' days I've decided to set up a formal chronology for HO and thought my first draft might still be useful for your case. Also someone else (Beverly or Barbara?) forgive me I can't find the note wanted info for the case on when Shell "knew" about the hazards. I've included some notes from prior deposition that may be helpful..please pass it on if you know who the Wilmington staff person is! If you find info to add to my list for future reference I'd appreciate the input.

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 notto 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
- 1972 NIOSH CRITERIA DOCUMENT OCCUPATIONAL EXPOSURE TO ASBESTOS HSM72 -10267 Recommended 2.0 f/cc (>5 um length) 8hr TWA, no peak concentration greater then 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 #6 ASBESTOS DUST, EMERGENCY STANDARD IMPLEMENTATION
- 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

ABS-059949

- 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 (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)
- 1975 (1/4) Memo GM Refining-HO to REFINERY MGRS
OSHA ASBESTOS STD, Medical Exam
(additional guidelines & new exam form)
- 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

NOTES:

Reference Deposition re WRMC HLKusnetz

- a few people with title of IH in Shell prior to HLK
- HL KUSNETZ, CIH, joined Shell 8/71 Mgr IH
brought in to set up a formal IH program
HLK hired/developed other IH's

generally aware of potential hazards of asbestos exposures
OSHA was taking action on asbestos at time
Shell used OSHA standards to determine if exposure acceptable >'71
Refer to ACGIH-TLV's, reference for IH's, used as guidelines
Some state standards <1971

ACGIH formed 1938 OSHA Act 12/
OSHA order 6A adopted all consensus standards
Asbestos - first health std under 6B by OSHA

Walsh- Healey Public Contracts Act, adopted TLV's by reference
(dealt with government contract work)
no other federal stds < 1971 on asbestos

no expectation re Shell to be expert in asbestos, not manufacturer.
would look to manufacturers and suppliers for input (ie MSDS, safety
and health bulletins, etc)