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ASBESTOS IN SHIPBUILDING

United States Practices, 1930's -- 1970's

Key Documents Identified and Summarized by Experts

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◆◆ *See sample pages and indices on the next several pages.* ◆◆

This book identifies and factually summarizes the key documents, articles, papers and books that are central to understanding the factors and considerations pertaining to the use of asbestos in U.S. shipbuilding between the 1930's and the 1970's. Summary statistics of U.S. shipbuilding in that period are also presented. This book will give the reader sufficient information to address these questions, among others:

- ◆ What factors and considerations promoted and advanced the use of asbestos in the U.S. shipbuilding industry since the 1930's?
- ◆ Why did the epidemiological studies of the 1960's result in such significantly different recommended particle exposure limits when compared to the earlier (pre-1940's) studies?
- ◆ Which entities recommended, encouraged, required and/or selected the use of asbestos in U.S. shipbuilding?
- ◆ Why did the use of asbestos in the U.S. shipbuilding industry continue into the 1970's after the long-term health risks associated with its use were more clearly identified in the 1960's?

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Introduction by Dr. Kenneth W. Fisher, Editor

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Example of Summaries

DATE PUBLISHED: September 1, 1943
AUTHORED BY: Division of Labor Standards
PUBLISHED BY: U.S. Department of Labor
DOCUMENT NAME: Wartime Working Conditions: Minimum Standards for Maximum Protection, Special Bulletin No. 13

ABSTRACT:

<page 1> The introduction to the standards stated that they were "advisory in nature" and "intended to supplement existing requirements under State and Federal laws, rules, and regulations." <page 2> Requirements for fire prevention containment included the use of "fire-resistant materials in new construction." <page 5> "Plants using processes which produce injurious dusts ... should either (1) change the process so as to substitute harmless for toxic materials or (2) catch the dusts ... at the point of origin and remove them to a safe point of discharge by means of local exhaust ventilation, or (3) isolate the process so as to reduce the

DATE PUBLISHED: 13 August 1971
AUTHORED BY: U.S. Occupational Health and Safety Administration
PUBLISHED BY: U.S. Department of Labor
DOCUMENT NAME: Vol. 36 Federal Register - Section 1910.93 amended

DOCUMENT NUMBER: 7186

ABSTRACT:

Section 1910.93 is amended to include a formula for calculating the Time Weighted Average exposure for employers to use when determining the Threshold Limit Values

DATE PUBLISHED: November 4, 1953
AUTHORED BY: Hueper, W.C. MD, discussion, Proceedings of the Scientific Session/Annual Meeting
PUBLISHED BY: American Cancer Society, Inc.
DOCUMENT NAME: Cancer of the Lung: An Evaluation of the Problem -- Potential Occupational Factors in Lung Cancer

DOCUMENT NUMBER: 7282

ABSTRACT:

The meeting centered around the discussion of potential occupational factors in lung cancer. <page 90> Table I listed carcinogens and possible carcinogens. Asbestos was listed with "7" next to it indicating that it was a possible cause of lung cancer. <page 91> Figure 1 listed various occupations involving known or suspected carcinogens. Asbestos was listed as being

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Example of Summaries

DATE PUBLISHED: 1953
AUTHORED BY: U.S. Navy
PUBLISHED BY: U.S. Navy
DOCUMENT NAME: Specifications for the Construction of a Navy Refrigerated Stores Ship, Design R3-S-4a

ABSTRACT:

261 ... (b) Amosite asbestos insulation shall ... compose of amosite

DOCUMENT NUMBER: 7290

DATE PUBLISHED: November 1962
AUTHORED BY: Asbestos Worker, The
PUBLISHED BY: Asbestos Worker, The
DOCUMENT NAME: The Asbestos Worker, Vol. XVI, No. 1: Convention Issue, Proceedings and Highlights/ 20th Int'l Convention

ABSTRACT:

<page 1> Report of Health Hazards committee. The recommendation for a study on the health hazards involved in the asbestos industry was carried out through meetings of an International ... committee. "Dr. Irving J. Selikoff, a specialist in internal medicine, is conducting ... President's recommendation that this investigation be continued."

DATE PUBLISHED: Nov. 2, 1936
AUTHORED BY: Air Hygiene Foundation
PUBLISHED BY: Air Hygiene Foundation of America, Inc., Preventive Engineering Series, Bulletin No. 1
DOCUMENT NAME: Measurement and Control of Industrial Dusts

DOCUMENT NUMBER: 7372

ABSTRACT:

The bulletin took a broad look at the data available on occupational dust diseases, especially silicosis. It then concentrated on preventive measures beginning with limits and proper engineering. <page 8> "In diseases such as silicosis and asbestosis, particles must reach the alveoli or no silicosis or asbestosis results." <page 11> "If the breathing of dust causes disability of any sort silicosis is only one manifestation then it follows that there must be some degree of air cleanliness from which no disability will result to the average man during the average working period." <page 12> "If left to his own devices he [the engineer] will do his best to achieve dust concentration substantially lower than any man's knowledge warrants."

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CHRONOLOGICAL INDEX ASBESTOS IN SHIPBUILDING

Chronological Index Example

Year Published	Authored by:	Published by:	Document Name	Document Description	Document Number
1937	National Silicosis Conference Committees	U.S. Department of Labor	National Silicosis Conference: Bulletin No. 13 "Summary Reports Submitted to the Secretary of Labor"	Major U.S. conference on Silicosis	7063
1937	Committee on Commerce, chaired by Mr. Copeland	U.S. Senate, 75th Congress	MORRO CASTLE and MOHAWK Investigations, Final Preliminary Report, Senate Report 184	Investigation into the disasters of MORRO CASTLE, MOHAWK	7078
1938	Air Hygiene Foundation	Air Hygiene Foundation of America, Inc., Info.Circ. No. 4	Air Hygiene Foundation: What, Why, Where? and Officers, Committees, Members, and Purposes	Air Hygiene Foundation promotes Health & Safety	7370
1938	Committee on Regulatory and Administrative Phases of the Silicosis Problem	U.S. Department of Labor, Division of Labor Standards	National Silicosis Conference, Report on Regulatory and Administrative Phases, Bulletin No. 21, Part 4	State requirements for health and safety together with statutory provisions relating to dust control	7067
1938	Lanza, A.J. editor, and various authors	Oxford University Press	Silicosis and Asbestosis	Prominent Book about Asbestosis	7049
1938	U.S. Congress	U.S. Government Printing Office		Marine Inspection Technical Staff is created	7086
1938	U.S. Maritime Commission	U.S. Maritime Commission	Specifications for the construction of a Single Screw Passenger and Cargo Vessel: Design C-3	USMC Published specifications for Design C-3 Steam Propulsion	7102

1963	Waters, Theodore C., attorney	Industrial Hygiene Foundation of America, Inc.	Current Status of Compensation for Pneumoconioses	Asbestos is being included as pneumoconiosis for compensation laws	7374
1963	Asbestos Worker, The	Asbestos Worker, The	The Asbestos Worker, Vol. XVI, No. 5: Navy Takes Labor Leaders on Orientation Cruise	Asbestos Worker article reports on executive order granting federal employees the right to join unions	7292
1963	Asbestos Worker, The	Asbestos Worker, The	The Asbestos Worker, Vol. XVI, No. 2: Niagara Power Plant	Asbestos Worker article reports on progress of survey of insulation workers' lungs	7291
1964	U.S. Maritime Administration	U.S. Maritime Administration	Annual Report of the U.S. Maritime Administration	MARAD report on shipbuilding program	7174
1964	Asbestos Worker, The	Asbestos Worker, The	The Asbestos Worker, Vol. XVI, No. 9	Asbestos Worker article reports on high incidence of cancer in asbestos insulation workers	7294
1964	Asbestos Worker, The	Asbestos Worker, The	The Asbestos Worker, Vol. XVI, No. 6	Asbestos worker article reports on study of insulation workers lung problems; to be published early that year by the AMA	7293
1964	Selikoff, I.J., et al.	Journal of the American Medical Association, The	Asbestos Exposure and Neoplasia	Association between cancer and asbestos validated by study of insulation workers' death and cancer rates	7222
1965	Addingley, C.G.	New York Academy of Sciences	Dust Measurement and Monitoring in the Asbestos Industry	Dust filters and detection techniques barely adequate	7016
1965	Ayer, H.E., and Lynch, J.R., and Fanney, J.H.	New York Academy of Sciences	A Comparison of Impinger and Membrane Filter Techniques for Evaluating Air Samples in Asbestos Plants	Dust filters and detection techniques barely adequate	7014
1965	Enterline, PE.	New York Academy of Sciences	Mortality Among Asbestos Product Workers in the United States	Threat to asbestos workers higher than cotton workers	7010
1965	Gilson, J.C.	New York Academy of Sciences	Problems and Perspectives: The Changing Hazards of Exposure to Asbestos	Asbestos safeguards must be put in place for all	7022

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DATE PUBLISHED: March 1940
AUTHORED BY: Miller, Frieda S., Industrial Commissioner
PUBLISHED BY: State of New York, Department of Labor

Example of Summaries

DOCUMENT NAME: Workers' Health Hazards - - Today and Tomorrow: Detection and Control of Silicosis and Other Occupational Diseases

ABSTRACT:

This paper covers what New York State had done and the job ahead regarding workers' health hazards. New York State had begun a program of examining workers exposed to dust hazards including asbestos. They recommended ventilation as the best method to control the hazard. They are setting up standards with the industry to control dusts. page 11 "The Labor Law provides that no new ventilating system may be installed or an existing one modified which has been submitted for examination and received the approval of the Division."

DATE PUBLISHED: 1972; reproduced for 1984 conference DOCUMENT NUMBER: 7361
AUTHORED BY: Keane, William T., D.Sc., University of Arizona
PUBLISHED BY: American Conference of Governmental Industrial Hygienists Vol. 9 (1984)
DOCUMENT NAME: OSHA Interpretation for the industrial hygienist

ABSTRACT:

<page 227> The use of TLVs as legal standards has been opposed by the ACGIH. Despite this opposition, the TLVs were first promulgated as federal health standards in the 1960 Walsh-Healy Public Contracts Act. The TLV Committee made every effort to avoid the use of TLVs as legal standards that would be rigidly applied without professional judgement. The fallacy in such an application of TLVs lies in the fact that they will be employed as fine lines between safe and dangerous concentrations. Such strict interpretation is within the intent expressed in the preface to the TLVs, and places industry in undue jeopardy. <page 230> "OSHA does not require that human exposure to all chemicals capable of causing cancer in animals or man be standard. The standard shall be established for such..." <page 231>

DATE PUBLISHED: November 27, 1936 DOCUMENT NUMBER: 7079
AUTHORED BY: Committee on Commerce, chaired by Mr. Copeland
PUBLISHED BY: U.S. Senate, 75th Congress
DOCUMENT NAME: MORRO CASTLE and MOHAWK Investigations, Report to the Technical Committee on Safety at Sea to the Subcommittee on Department of Commerce and Merchant Marine of the Senate Committee on Commerce

TRACT

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Archive Sources

The identified and summarized papers come from a wide range of sources, including, among others, the archives of these organizations and, as appropriate, their predecessor and/or successor organizations:

- ◆ American Conference of Governmental Industrial Hygienists
- ◆ American Medical Association
- ◆ American Society of Safety Engineers
- ◆ American Standards Association
- ◆ Bureau of Labor Standards
- ◆ Bureau of Marine Inspection
- ◆ Bureau of Mines
- ◆ Coast Guard
- ◆ Department of Commerce and Industry
- ◆ Department of Health, Education and Welfare
- ◆ Department of Labor
- ◆ Industrial (Air) Hygiene Foundation of America
- ◆ Maritime Administration
- ◆ Maritime Commission
- ◆ National Institute of Health
- ◆ National Institute of Safety and Health
- ◆ National Safety Council
- ◆ Naval shipyards
- ◆ Navy Department
- ◆ New York Academy of Sciences
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