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Insulation Problems**

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Research and Engineering Center
October 9, 1970 (dictated 10/8)

File 259

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**MOUNT SINAI MEETING
SHIPYARD INSULATION PROBLEMS**

Dr. Selikoff informed me that this meeting will be held at 9:30 a.m. on October 15 at Mount Sinai Hospital. We should plan to meet at Dr. Selikoff's office in the Environmental Sciences Department, Mount Sinai Hospital, at that time. He will take us from there to the Board Room where the formal meeting will start at 10 a.m.

In addition to ourselves, and several people from Dr. Selikoff's staff, representatives from the U.S. Navy Department, the U.S. Department of Labor, the Occupational Health Division of the U.S.P.H.S., and the Shipbuilders Council of America will be present.

I have not received an official agenda or list of attendees, but if I do prior to the meeting, I will forward it to you.

F. L. Fundsack
F. L. Fundsack

cc

cc: J. B. Jobe, DMQ
N. W. Burleson, DMQ

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SHIPYARDS MEETING - MOUNT SINAI
OCTOBER 15, 1970

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ATTENDERS:

Cdr. (Dr.) George Lawton, USN

Cdr. (Dr.) Samuel Barbo, USN (Visited J-M Research Center)

Carl Mangel - Project Engineer- Puget Sound Naval Shipyards *Mangel*

John O'Neil, US Dept. of Labor

Harry Howard - Bethlehem Steel & Shipbuilders Council

Austen Sheehan - Todd Shipyard &

Jim Mulhern - Asbestos Workers Union

MOUNT SINAI

Dr. Selikoff

Dr. Nicholson

Dr. Heiman

Bill Reitse

Dr. E. Pichter

Duncan Salodoy

JOHN-MANTLE

Fred Pundack

Ed Fenner

Charles Ernst

Bill Raines

Chaired by Duncan Salodoy

DR. SELIKOFF

- Summarised "standards"
- Analyses of Portsmouth (same mortality rate)
- Most shipyard evidence (workers) and Stump (material)
- Stress on Mesothelioma

Dr. Selikoff visited J-M Research

- 1,370,000 people worked in shipyards of WW II: With tumors?
- Did they have signs?
- Will this result in future?

rd pleth* re NY and NJ locals.

outh, No. shipyard workers (NU) showed
cases NY-NJ

ence is based on Royal Navy (Non-insulation
high Marries work (including unpublished

loma

USN (Dr. Barbee) (Probably before USN
Center!)

are working in shipyards during height
move, could be 3-3½ million.

ificant occupational exposure to asbestos
(indirect).

many new cases of mesothelioma in near

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SHIPYARDS MEETING - MOUNT SINAI

- Royal Navy has accepted responsibility for mesothelioma resulting from shipyard work in WW II -- Mt. Sinai working with them on possible therapy for mesothelioma.
- Control of peak exposure may renew the hazard. Occasional exposures may not be significant.

DISCUSSION

Dr. Lorton

How do we know non-insulators in shipyards were exposed to such asbestos (vs other possible meso-inducing agents)?

Dr. Selikoff

Meso has been associated primarily with asbestos exposure.

But hazard could be from other insulation materials or other materials with asbestos.

Extruded silicates have produced meso in experimental animals.

OTHER DISCUSSION

Questions of rip-out vs installation - Risk to boilermakers.

Feitz

Summarized observations from visits to 50-100 shipyards in US and Europe - Navy and civilian.

Regardless of his trade, a shipyard worker gets considerable exposure to asbestos dust. They work right beside the insulation workers.

DUSTY OPERATIONS

Mixing asbestos cements
Cutting insulations
Fitting block to pipes or boilers
Saw housekeeping
Asbestos blanket stuffing
Rip-out (NOT done by asbestos workers)

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Findings

- Baghouses very effective in trapping asbestos fibres.

Discussion of types of R/C equipment

Barlow

After Dr. Solihoff and J-M meetings, he visited all USN shipyards.

Has decided that priority concern is to get respirators worn in shipyards.

USN in process of promulgating regulations:

- Will recommend substitutes for high-asbestos content materials (amosite blanket and pipe insulation)
- Will enforce 5 fiber ACGIH standard in shipyards.
- Require annual X-rays of shipyard workers exposed to asbestos.
- Seal off areas while asbestos is sprayed.
- Mandatory use of respirators.
- Induction and semi-annual refreshers in industry hazards for workers.
- Use of disposable work clothes for asbestos workers.

Holzer

Discussed respirators.

He is Chairman of American National Standards Committee Sub-Committee to draw up standards for disposable respirators.

Next step will be to get Bureau of Mines approved schedule on this.

Respirators being developed by four companies.

Bureau of Mines standards must be published - republished after thirty-days (after announcement) and then promulgated.

Dr. Solihoff

Heat insulation installation work is now at 5 fibers per cc. Some areas, like, spraying give 100 fibers per cc -- so airline respirators will be needed.

Nicholson

Reported on procedures at shipyard at Plymouth, UK.

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SHIFFRANS MEETING - MOUNT SINAI

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Labor Department

- Dubious about its role/ability to promulgate enforceable regulations.

Emphasize development of respirators

Department of Labor is preparing occupational controls and standards for the "Construction industries"

Labor Department sees asbestos standard moving down from 5 fibers to 2 fibers.

Monday

See need for compilation of what has been/is being done in this area.

Would like committee representing the "groups" present today -- that could develop a "Manual of Recommended Practices". Committee should include someone like Don Bradshaw of NICA.

- Another Washington "front"??

Bd

W. P. Raines

10/15/70

CC: P. L. Fendack
E. M. Finner
P. J. Solen, Jr.
H. M. Swanson
Carl Thompson
D. Saylor

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