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Manufacturing Chemists Association

Minutes of Meeting

TECHNICAL PANEL ON VINYL CHLORIDE RESEARCH

MCA Headquarters

October 13, 1976

Washington, D.C.

Chairman Torkelson convened the meeting at 10:00 a.m.
The record of attendance is:

MEMBERS PRESENT:

T. R. Torkelson, Chairman
T. R. Aalto
F. C. Dehn
(for Z. G. Bell, Jr.)
A. W. Fuhrman
R. L. Gibson
W. D. Harris
R. K. Hinderer
C. A. Johnson
M. N. Johnson
F. Kennedy
H. L. Kusnetz
R. W. Laundrie
R. O. Park
(for R. S. Brookman)
H. L. Schmidt, Jr.
W. M. Smith
R. N. Wheeler
M. Freifeld

The Dow Chemical Company
Tenneco Chemicals, Inc.
PPG Industries

Great American Chemical Corporation
Gulf Oil Corporation
UNIROYAL, Inc.
Ethyl Corporation
The Goodyear Tire & Rubber Company
B. F. Goodrich Company
Continental Oil Company
Shell Oil Company
The General Tire & Rubber Company
Firestone Plastics Co.

Borden Chemical
Air Products & Chemicals, Inc.
Union Carbide Corporation
MCA Staff

MEMBERS ABSENT:

R. J. Abramowitz
B. W. Duck
R. E. Eckardt
J. E. Ertel
W. S. Ferguson
M. R. Gasque

Hooker Chemicals & Plastics Corp.
British Petroleum Co. Ltd.
Exxon Corporation
Robintech Incorporated
Allied Chemical Corporation
Olin Corporation

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J. G. Heil	Certain-Teed Products Corporation
S. K. Law	Keysor-Century Corporation
A. B. Lindquist	Stauffer Chemical Company
A. B. Magram	W. R. Grace & Co.
R. W. McBurney	Diamond Shamrock Corporation
G. Roush	Monsanto Company
H. A. Russell	The Pantasote Company
H. M. Zimmerman	Georgia-Pacific Corporation

* * * * *

1. Minutes of Last Meeting

The minutes of the April 28 meeting were approved as distributed.

2. Finances

The Project Manager briefly reviewed the financial status as shown in the statement of October 1 attached.

3. Projects Completed or In Progress

3.1 Industrial BIO-TEST Laboratories, Inc. (IBT)

Despite concerted efforts by the Project Manager and Dr. Torkelson, we have been unable to obtain a draft of a final report from IBT. It is recognized that they currently face some serious problems, hence, there is hesitancy about applying so much pressure that a report is written in haste resulting in an inferior product.

3.2 Equitable Environmental Health, Inc.

Research Coordinators received copies of a final report only a day or two before their meeting the previous day. The report had been mailed considerably earlier by the contractor but delayed due to a UPS strike. At any rate, Research Coordinators felt they did not have sufficient time to study the report carefully and comment on it adequately.

Nevertheless, it was noted that a serious potential for misunderstanding existed in the way data was presented in Table 5 on page 13. In reporting causes of death the total was shown to be made up of "only PVC" plants and "other and mixed". The latter category includes monomer as well as copolymer plants. At monomer

facilities the VC is usually completely enclosed and worker exposure is extremely low. Hence, it would be more realistic to list these plants separately and combine copolymer plants with PVC if only two groups are to be shown.

In addition, it was felt further investigation was needed for the heading "all other certified causes". In particular, interest was expressed in determining whether connective tissue disorders were an important segment of this grouping. In this vein there was a question as to whether acroosteolysis progresses to malignancy.

The Panel accepted the Research Coordinators recommendation, without dissent, that the report not be distributed to the Panel or anyone else until necessary changes were made. These should obviously include not only the points cited above but any others the Research Coordinators noted following more intensive review. A meeting has been scheduled by the Research Coordinators for November 30 to further discuss this report. It was suggested that in the interim, Equitable be notified that we had expected a draft rather than a finished product, as previously agreed, and that we would contact them again after the Research Coordinators have listed their comment.

In the interest of saving time since additional funds may be required to make the changes desired in the report, the Panel voted without dissent to authorize the Research Coordinators to commit up to \$20,000.00 for this purpose contingent on management approval.

3.3 Dow Studies

The Panel has accepted reports on the completed teratology study and metabolic work done so far.

4. Planned Studies

4.1 Completion of Work on Metabolism

An Agreement between MCA and Dow to complete the metabolic studies is being readied for signature. Dr. Torkelson indicated that the work had actually been started.

4.2 University of Louisville (UL)

An Agreement is also in preparation with UL. It is

expected to be effective as of September 1 and will provide funds only for the first year of a three year study. Early consideration of continuing support was urged to insure continuity next September since such a long lead time is required to arrange funding. The Project Manager reported that in an attempt to obtain a wider industry base via MCA, the proposal to support the UL work beyond the first year was presented to the Occupational Health Committee. It is thought unlikely however, that broad MCA funding can be achieved this way since the Occupational Health Committee already has plans to present other projects to the Board this year.

Another possibility mentioned was to suggest to the Chemical Industry Institute of Toxicology that they consider underwriting this project. Dr. Torkelson is to pursue this.

It appears most likely at this point, that the VC Panel will be asked to continue their support although the above leads will be followed-up. In preparation for such possible action it was suggested that Dr. Tamburro be invited to give the Panel an oral report and that reimbursement for his travel expenses be offered. Hopefully, this can be scheduled for the next meeting, probably this coming January.

5. Other U.S. and European Studies

A listing of such projects including their key features, is being prepared by Dr. Torkelson and was reviewed by him. It will be distributed to the group when ready.

Information released recently by Professor Maltoni appeared to show excessive tumors compared to controls even at very low levels. The sponsors of this work, European companies and the Society for the Plastics Industry feel this data needs additional analysis and clarification. We have been informed that SPI has notified the concerned government agencies about Maltoni's findings.

6. Revision of Safety Data Sheet

There was general agreement that revision of this SDS should be undertaken and completed promptly. Mr. Nick Wheeler agreed to chair this group and select those who would work on it with him. The Panel voted unanimously in favor of this arrangement and suggested the first of the year as a target for

completing the task.

7. Review of Government Regulations

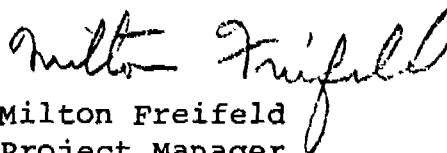
NIOSH is looking into Maltoni's data but no changes are anticipated in OSHA regulations at this time.

EPA regulations limiting emissions to 10 ppm are due to be published very shortly. This is the figure that has already passed agency review. It is expected that Maltoni's new data will be taken into account by modifying the introduction to the regulation by including provision for review as additional information becomes available.

8. Next Meeting

This is to be held at the discretion of the Chairman. A suitable meeting frequency was thought to be roughly three times per year.

The meeting was adjourned at 3:30 p.m.


Milton Freifeld
Project Manager
Vinyl Chloride Research

MF:ec
Minutes Subject to Approval
November 11, 1976

Manufacturing Chemists Association

VINYL CHLORIDE RESEARCH PROGRAM

Financial Statement - October 1, 1976

	Invoiced	Received	Research Contracts	DISBURSEMENTS				Balance on Contract
				Time	Travel	Misc.	Research Contracts	
1. <u>Epidemiology Study</u> Equitable Environmental Health	\$ 91,940	\$ 91,940						
(a) Health Study of VC Workers (6/13/73)			\$ 71,340				\$ 91,895	
(b) Adjustment/-Travel (8/16/73)			\$ 3,950					
(c) Adjustment/- Extension (3/12/74)			\$ 5,250					
(d) Retabulation of Data (7/13/74)			\$ 1,000					
(e) Study of Workers/ 4 plants (11/5/74)			\$ 10,350					
(f) Extended Epidem- iology Study (4/22/75)	\$ 52,597	\$ 52,597	\$ 32,000				\$ 28,764	\$ 3,236/1
2. <u>Chronic Inhalation Studies</u> Industrial BIO-TEST Labs	\$190,281	\$190,281						
(a) Original-Protocol (2/1/73)			\$149,000				\$130,375	\$18,625/1
(b) Additional Animals - 100 rats (5/22/73) (Restart-Agreement) (8/31/73)			\$ 15,000				\$ 10,000	\$ 5,000/1
(c) I B-T L Contract Adjustments	\$ 50,000	\$ 50,000						
(d) Holding 4 chambers for 14 weeks			\$ 7,840				\$ 7,840	
(e) Holding Animals beyond 2 years			\$ 1,610				\$ 1,610	
(f) Overrun			\$ 20,000				\$ 20,000	
3. <u>Dow Studies</u>	\$101,250	\$101,250						
(a) Metabolic			\$ 50,000				\$ 50,000	
(b) Teratology			\$ 20,000				\$ 20,000	
(c) Extension of Studies	\$149,990	\$149,990	\$154,090				\$154,090	
Total Disbursements:	\$532,700			\$14,532	\$2,665	\$929	\$514,574	\$26,861
Balance on Hand:	\$103,358							

Note: 1. Due Receipt of Final Report

4. University of Louisville
Diagnostic Study
8/19/76 \$100,000 \$ 92,235

5. Dow Metabolic Study

BOR 010350



MANUFACTURING CHEMISTS ASSOCIATION

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RECEIVED
NOV 22 1976
DR. A. S. CUMMIN

November 11, 1976

TO: Vinyl Chloride Technical Panel

SUBJECT: Minutes of Last Meeting and Other Items

Gentlemen:

Herewith are the following:

1. Minutes of October 13 Meeting
2. EPA Standard for Vinyl Chloride from Federal Register, October 21, 1976, Part II *(not done as should already have)*
3. "Capillary Abnormalities in Polyvinyl Chloride Production Workers", by Maricq et al. from JAMA, *have* September 20, 1976
4. "Hepatic Angiosarcoma in a Vinyl Chloride Worker", by P. M. Smith et al. from the Bulletin of the New York Academy of Medicine, May 1976
5. Letter of Dr. Harris to Dr. Torkelson, August 12, 1976 with appended listings of angiosarcoma of the liver cases
6. "Effect of Occupational and Nonoccupational Factors on the Respiratory System of Vinyl Chloride and Other Workers", by Gamble et al. from Journal of Occupational Medicine, October 1976

Sincerely,

Milton Freifeld

Milton Freifeld
Project Manager
Vinyl Chloride Research

MF:ec
Enclosures

11/17

CC: HAP
ASCV
PJJ/DW
JML
TM
EAL
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