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Tab E

Manufacturing Chemists Association

MINUTES OF MEETING

Air Quality Committee

Westbury Hotel Toronto, Ontario, Canada

September 22-23, 1970

MEMBERS PRESENT

W. F. Bixby, Chairman	B. F. Goodrich Chemical Co.
E. F. Spencer, Jr., Vice Chairman	FMC Corporation
M. V. Anthony	Stauffer Chemical Company
C. B. Beck	Cabot Corporation
S. R. Edwards	Aluminum Company of Canada, Ltd.
C. G. Kramer, M. D.	The Dow Chemical Company
R. M. Love	Enjay Chemical Company
R. L. Maycock	Shell Chemical Company
P. W. McDaniel	Union Carbide Corporation
A. H. Phelps, Jr.	The Procter & Gamble Company
A. J. Primosic	Foote Mineral Company
L. W. Roznoy	Olin Corporation
M. B. Tohline	Mobil Oil Corporation
E. F. Wheeler	Monsanto Company
J. H. Yeager	Mallinckrodt Chemical Works
K. D. Johnson	MCA

GUESTS PRESENT

W. L. Canniff	Canadian Chemical Producers' Association (Wednesday only)
F. T. Cunniff	Calgon Corporation (Wednesday only)
S. M. Rumney	Stauffer Chemical Company
J. P. Turner	MCA

MEMBERS ABSENT

J. P. Butler	Kawecki-Berylco Industries, Inc.
W. R. Chalker	E. I. duPont de Nemours & Co.
R. D. Hall	Diamond Shamrock Chemical Co.
J. H. Huguet	Ethyl Corporation
E. W. Kleppinger	Celanese Corporation
F. G. Krikau	Interlake, Inc.

CMA 085898

W. T. Laffey
 W. L. Mann
 R. H. Mansur
 J. H. Morris
 E. G. Opdyke
 S. S. Paist, Jr.
 J. H. Rook
 C. R. Walbridge
 Jerome Wilkerfeld
 D. C. Winson

Hercules Incorporated
 National Lead Company
 Reynolds Metals Company
 Merck & Company, Inc.
 Kay-Fries Chemicals, Inc.
 Rohm and Haas Company
 American Cyanamid Company
 Allied Chemical Corporation
 Hooker Chemical Corporation
 Eckert, Seamans & Cherin

Special Luncheon Guest

Our scheduled guest, Mr. W. B. Drowley, Director of the Air Management Branch, Ontario Department of Energy and Resources Management, was unable to be with us for the Wednesday luncheon, but his role was ably filled by his assistant Mr. Thomas W. Cross. Mr. Cross stressed the resolve of the Ontario government to provide a high level of protection to the environmental resources of the province, and to abate the pollution that, in earlier times, had been permitted to degrade the purity of its atmosphere.

He discussed at some length the system of regulations designed to achieve these goals and the concept of setting stack emission standards on the basis of predicted plume concentrations at point of input of the plume with the ground. Cooperative industry-government effort was identified as an essential element of any effective program. Mr. Cross expressed optimism that Ontario could achieve its environmental goals without undue inhibition of industrial and economic growth.

I. COMMITTEE MEETING

1.0 Opening Remarks - Chairman

Mr. Bixby opened the first meeting of the Committee under its new officers and organizational structure with a welcome to the members and guests, and a description of the program and schedules for the session.

Mr. A. J. Primosic, Vice President for Operations and Planning of the Foote Mineral Company, was welcomed as the new member of the Committee for liaison with the Reactive Metals Subcommittee.

2.0 Minutes of the Meeting of April 15-16, 1970

Mr. Stanley Faist had called to the attention of the Secretary the omission from the subject minutes of the Committee action to request that MCA retain Dr. W. L. Faith to prepare a report on the justification, or lack thereof, for regulatory control of photoreactive solvents from fixed sources. With the addition of this item, the minutes were otherwise approved as distributed.

3.0 MCA Board Liaison - Secretary

The Secretary reported that the current interest of Mr. Doan was in the possible creation of a jointly managed and funded national center for the testing of the long term health effects of chemicals. The proposed center would be operated by a board on which industry, government and the universities would each be represented, and be funded by industry and government. Its principal role would be the development of consensus on protocols for the demonstration of an acceptable level of safety (as opposed to a proof of absence of risk) to be required of products that may be discharged into the environment. It would also be prepared to do a certain amount of product testing on a fee basis.

The Secretary was asked to distribute the proposal, as presented at the Board Liaison Committee meeting, to the full Committee.

The Committee was also reminded of the environmental protection panel scheduled at the MCA semiannual meeting in November, and the membership of Dr. Carroll Wilson of the Massachusetts Institute of Technology in that panel. The report on critical environmental problems, "Man's Impact on the Global Environment" issued by the MIT symposium, will be the basis of Dr. Wilson's principal comments.

4.0 Report from the Joint Subcommittee on Air and Water Pollution Legislation and Regulations

The Secretary reported that the efforts of the Subcommittee were currently focused on the preparation of an Association position on the new bill reported out by Senator Muskie's Subcommittee on Air and Water Pollution. The letter sent to Senator Randolph, Chairman of the Senate Public Works Committee, was summarized, and suggestions solicited from the Air Quality Committee on ways in which we could further the Association position or achieve acceptable compromises on points at issue.

The Secretary surmised that the Muskie bill, when reported out of the full committee, would pass the Senate without significant change on the floor of that chamber, and that MCA's final and most significant opportunity to achieve meaningful changes in the legislation would be when the House and Senate bills are referred to a Conference Committee. As the time available for submission of comments to this body may be very brief, members were asked to keep in close touch with developments and to forward their suggestions and comments to MCA as expeditiously as possible.

The Committee expressed concern that, with the current operation of the Joint Subcommittee, the parent Committee is being deprived of direct participation by its member attorneys. The Chairman appointed an ad hoc subcommittee to study this problem, and to bring back its recommendations on the second day of the present session. Named to the subcommittee were:

M. V. Anthony, Chairman
K. D. Johnson
A. H. Phelps
E. F. Spencer
E. P. Wheeler

5.0 Report from the Steering Committees for the MCA-NAPCA
Cooperative Studies of Atmospheric Emissions -
E. F. Spencer

5.1 Emissions from Selected Chemical Manufacturing
Processes

The Steering Committee met June 23, 1970 in Durham, North Carolina. The following topics were discussed:

Sulfuric Acid

The question of whether to reprint the 1965 edition without revision, or to attempt to update the statistical and control technique sections was discussed at length. It was agreed that the recent NAPCA publication of the Chemico report, and the lack of industrial operating experience in the United States with control technology more advanced than that described in the 1965 edition both mitigated against present revision.

It was voted to recommend the reprinting of the report without amendment, and to consider the question of a full restudy of the industry in another year.

Chlor-Alkali

Mr. Cuffe informed the Committee that the subject report should be published in August.

Phosphate Fertilizers

The fluoride sampling and analytical problems seem to have been resolved. Of the 42 processes to be sampled, 33 have been sampled to date. Mr. Cuffe expressed a NAPCA determination to complete or terminate the sampling program this fall.

MCA is still without a principal investigator. Any volunteers? Dr. Johnson was requested to determine the extent to which MCA's Information Department could acquire and organize statistical data for the sections of the report assigned to MCA for preparation of the first draft.

The Steering Committee plans for another meeting sometime after October 1.

5.2 Emissions from the Reactive Metals Industry

Four meetings have been held to date, May 5, May 22, July 28 and August 28. MCA representatives are E. F. Spencer, R. R. Banks of Air Reduction Company, O. D. Jordan of Ohio Ferro-Alloys, and R. A. Person of Union Carbide. The Chairman is G. Ozolins of NAPCA. The study team is Art Killin (ex-Union Carbide) for MCA, and Carl Spangler for NAPCA.

The program is moving rapidly and the questionnaire is ready for initial plant distribution. Field sampling plant selection and sampling protocol have been completed. NAPCA will contract the sampling program, hopefully by October 1, and start field sampling by November 1.

Sample copies of the questionnaires were distributed to the Committee.

6.0 Report of Status on Regulations Workbook

No progress in getting the workbook ready for publishing was reported to the Committee.

7.0 Report on Activities to Implement PL 90-148

The Secretary reported that he expected all pending reports to be completed in the next few months. The draft of Mr. Coons report that had been distributed to the liaison

members of the Committee was discussed. There was general consensus that the reorganization of the text had generally been helpful, but that further editorial effort was indicated.

8.0 ASTM Committee D-22 Proposal

The request of ASTM for MCA support of the Committee D-22 project for the validation of standard methods for atmospheric analysis by collaborative testing was discussed at length. There was a clear consensus that the industry's major problems at present and in the immediate future were in the area of stack monitoring.

9.0 Asbestos as an Air Contaminant - C. G. Kramer, M.D.

Dr. Kramer presented an excellent resume of the historical, clinical and toxicological aspects of pulmonary diseases from exposure to asbestos dusts. The text of his paper was distributed to the Committee.

The Committee expressed its great appreciation for Dr. Kramer's presentation and requested that, if possible, he prepare a similar paper on heavy metals for the Houston meeting.

10.0 Committee Assignments

Before the Committee recessed for the holding of subcommittee meetings, the Chairman distributed the following assignments of subcommittee memberships.

Subcommittee chairmen were asked to report back to the second plenary session of the Committee with written reports, including attendance and recommendations made by the subcommittee.

10.1 Standing Subcommittees

10.1.1 Steering Committee of the Air Quality Committee

W. F. Bixby, Chairman
E. F. Spencer, Vice Chairman
J. P. Butler, Chairman of Information
and Publications Subcommittee
W. L. Mann, Chairman of Standards
and Regulations Subcommittee
A. H. Phelps, Chairman of Education
and Training Subcommittee
M. B. Tohline, Chairman of Technology
and Engineering Subcommittee
M. V. Anthony, past chairman
J. H. Huguet, at-large
Jerome Wilkenfeld, at-large
K. D. Johnson, Secretary

10.1.2 Education and Training Subcommittee

Purpose: To foster education and training in the field of air resources management, and to further the exchange of information pertinent thereto through:
(1) an expanded program of workshops, including coverage of air pollution control associated with use of the chemical industry's products. Emphasis is on sharing technical knowledge and expertise on air pollution control with chemical industry personnel, governmental agencies, educators, and on identifying publicly the chemical industry with progress in this field,

(2) the sponsorship of technical seminars and short courses,
 (3) the development of material suitable for distribution to schools and public interest groups, (4) the evaluation of the medical aspects of air pollution as related to the environments of chemical manufacturing.

Membership: A. H. Phelps, Chairman
 J. H. Yeager
 C. B. Beck
 B. R. Edwards
 J. H. Huguet
 C. G. Kramer, M.D.
 W. T. Laffey
 R. M. Love
 R. L. Maycock
 J. H. Morris
 E. G. Opdyke
 M. B. Tohline

10.1.3 Information and Publication Subcommittee

Purpose: To encourage and assist in the assembly of material related to air quality and air pollution control which is of interest to MCA member companies, individuals responsible for air pollution control and the general public, through: (1) the preparation and editorial review of articles for publication, (2) encouraging the development of articles germane to air pollution. (3) the editing and review of Safety Data Sheets, (4) drafting or reviewing items such as "Statement of Principles on Air Quality and Air Pollution Control".

Membership: J. P. Butler, Chairman
 W. T. Laffey
 C. G. Kramer, M.D.
 R. H. Mansur
 P. W. McDaniel
 S. S. Paist
 A. H. Phelps
 J. H. Rook
 D. C. Winson
 J. H. Yeager
 E. P. Wheeler

CMA 085905

10.1.4 Standards and Abatement Programs Subcommittee

Purpose: 1) To keep the chemical industry informed of significant developments in air pollution regulations at state and local levels. 2) To examine critically, available technical data forming the basis for ambient air quality standards and

abatement, including emission restrictions and to make recommendations concerning chemical industry action relative to the adoption of such standards and regulations by regulatory agencies.

Membership: W. L. Mann, Chairman
J. P. Butler
W. R. Chalker
E. W. Kleppinger
P. W. McDaniel
R. H. Mansur
S. S. Paist
A. J. Primosic
J. H. Rook
L. W. Roznoy
C. R. Walbridge
E. P. Wheeler
Jerome Wilkenfeld
D. C. Winson

10.1.5 Technology and Engineering Subcommittee

Purpose: To keep the chemical industry informed of new developments in technology and engineering relating to air pollution control, and more specifically to: (1) develop technical guidance for the chemical industry in the disposal of its wastes without aggravation of air pollution problems, and to coordinate such efforts with those of the Water Resources Committee and the Solid Wastes Management Committee, (2) encourage and stimulate the generation of technical and engineering articles related to pollution control and abatement, and the maintenance and enhancement of air quality, (3) foster research related to the identification, measurement, abatement or determination of the effects of air pollution by (a) administering on-going research program, (b) selecting proposed research projects, (c) soliciting and evaluating research proposals for performance of selected projects, and (d) preparing for presentation to MCA Board, research proposals for projects that have been recommended by the Committee, (4) evaluate new proposals and methods, seeking to abate pollution and enhance air quality, originating in the technical literature, in implementation documents of control authorities, inquiries to MCA, etc.

Membership: M. B. Tohline, Chairman
C. B. Beck
W. R. Chalker
B. R. Edwards
J. H. Huguet
E. W. Kleppinger

F. G. Krikau
R. M. Love
W. L. Mann
R. L. Maycock
J. H. Morris
E. G. Opdyke
A. J. Primosic
L. W. Roznoy
C. R. Walbridge
Jerome Wilkenfeld

10.1.6 Steering Committee for the MCA-NAPCA
Cooperative Study on Atmospheric Emissions
from Selected Chemical Processes

E. F. Spencer, Principal Representative
L. W. Roznoy
C. R. Walbridge
E. P. Wheeler

10.1.7 Steering Committee for the MCA-NAPCA
Cooperative Study on Atmospheric Emissions
from the Reactive Metals Industry

E. F. Spencer, Principal Representative
R. R. Banks
O. D. Jordan
R. A. Person
A. J. Primosic (alternate)

10.1.8 Reactive Metals Subcommittee

R. R. Banks, Chairman
George Fegan
O. D. Jordan
F. G. Krikau
R. A. Person
M. B. Powers
A. J. Primosic
R. H. Walsh

10.2 Other Assignments

10.2.1 Ad Hoc Subcommittee on Objectives and Goals

M. V. Anthony, Chairman
J. H. Huguet
Jerome Wilkenfeld
E. P. Wheeler

CMA 085907

10.2.2. Ad Hoc Subcommittee on Meeting Sites

L. W. Roznoy
B. E. Edwards
R. M. Love

10.2.3 Liaison Coordinator - M. V. Anthony

10.2.4 Liaison Members on Joint Subcommittee on
Air and Water Pollution Legislation and
Regulations

M. V. Anthony
M. B. Tohline
(note: J. P. Butler and D. C. Winson will
be attorneys with membership on both the Air Quality
Committee and the subject subcommittee.)

11.0 MCA Pollution Survey

The Chairman asked the Information and Publications
Subcommittee to consider the scope and content of the 1971 MCA
Pollution Survey Questionnaire.

II. SUBCOMMITTEE REPORTS

1.0 Report of Standing Subcommittees

1.1 Education and Training Subcommittee - A. H. Phelps

The following report was submitted by the chairman:

Present: A. H. Phelps, Chairman
M. V. Anthony
C. B. Beck
W. F. Bixby (ex officio)
B. R. Edwards
C. G. Kramer, M.D.
R. M. Love
R. L. Maycock
E. F. Spencer (ex officio)
M. B. Tohline
J. P. Turner, MCA Staff
S. M. Runney, Guest

The following recommendations are made by the
subcommittee.

11. The subcommittee asked the full committee to consider the feasibility of reviewing "paperback" publications in the environmental field, and the preparation of critiques on each significant book.

The chairman moved the adoption of the report. After a discussion, in which the Committee expressed its opposition to making item (11) a budget item for the 1971-72 budget, the motion was carried.

1.2 Information and Publication Subcommittee

In the absence of the Chairman, Mr. Phelps presided at the meeting and submitted the following report.

Present: A. H. Phelps, Acting Chairman
W. F. Bixby (ex officio)
C. G. Kramer, M.D.
P. W. McDaniel
E. P. Wheeler
E. F. Spencer (ex officio)
J. P. Turner, MCA Staff

Recommendations made by the subcommittee were:

1. An expansion of the Currents mailing list, to increase coverage of doctors and dentists' offices and of high school and university libraries in the major metropolitan areas. The MCA Board was requested to increase funding of Currents by \$17,000/year for this purpose.
2. More active participation in the environmental protection aspects of the chemical safety data sheets preparations, with each member of the Air Quality Committee volunteering the products on the list in which his company has an interest and expertise.
3. Committee technical support in the preparation of the "environmental message" tapes being prepared by the PR department for spot use in radio programming.
4. That the recommendations made by the Subcommittee in April, re the MCA Pollution Survey Questionnaire, be endorsed without change.
5. That the chairman write to members of the Committee inquiring as to numbers and sources of emissions inventory questionnaires that have been received by their companies, with a view to providing some guidelines that will assist a company in determining which surveys

- a. must be replied to under legal sanctions.
- b. should be returned on grounds of social responsibilities.
- c. should be returned on grounds of public relations aspects.
- d. have doubtful justifications for reply.

6. That the next revision of the MCA-NAPCA report on sulfuric acid manufacturing processes be revised to stress the dependence of SO_3 - H_2SO_4 mist data upon sampling techniques, and the need to have regulatory standards consistent with the analytical technique specified. Mr. Walbridge was asked to prepare a position paper on this subject, and Mr. Turner to cover the matter in a Pilot article

On motion of Mr. Phelps the report was seconded and adopted by the Committee.

1.3 Standards and Abatement Programs Subcommittee

Mr. P. W. McDaniel served as temporary chairman in the absence of Mr. Mann, and submitted the following report:

Attendance: 7

1. The subcommittee discussed the proposed hydrocarbons emissions projects discussed at the April meeting and concurred with MCA staff recommendations that this not now be pursued, as the subject has been covered adequately in other publications.

2. The NAPCA Oxides of Nitrogen Criteria draft was reviewed, together with comments submitted by MCA affiliated reviewers directly to NAPCA. It was agreed that no further action was necessary at this time.

The adoption of the report was moved, seconded and carried.

1.4 Technology and Engineering Subcommittee - M. B. Tohline

The following report was submitted by the chairman.

Present: M. B. Tohline, Chairman
M. V. Anthony
C. B. Beck
W. F. Bixby (ex officio)
B. R. Edwards
R. M. Love
R. L. Maycock
A. J. Primosic
L. W. Roznoy
E. F. Spencer (ex officio)
K. D. Johnson, MCA Staff
S. M. Rumney, Guest

CMA 085911

The Subcommittee discussed the following subjects:

- (1) Sulfuric acid mist determination technique.
- (2) MCA-NAPCA A. D. Little odor nuisance research project.
- (3) R. L. Maycock position paper on stack monitoring and ambient air surveying.
- (4) Coons position paper on equivalent opacity.
- (5) Checklist of potential air pollution hazards of chemical products.
- (6) Joint Industry-Government-University organization for testing long term health effects on humans.
- (7) Future recommendations to MCA Board of Directors and Air Quality Committee concerning technological research, specifically a literature search on the effects of trace amounts of heavy metals or Muskie Bill Section 114 compounds.

The following recommendations were made:

- (1) Items (1) through (5) are recommended to be the subject of short articles for Pilot.
- (2) Cliff Walbridge will be asked by Chairman Tohline about preparing Pilot article based on October sulfuric acid plant MCA workshop (Chicago).
- (3) Dr. Johnson is requested to contact NAPCA concerning its provision of suitable equipment on loan to continue study under Joint MCA-NAPCA odor research program (Item (2)). Recommend \$40,000 be included in 1971-72 budget to continue this project.
- (4) Dr. Maycock to send copies of his position paper draft to subcommittee members for comments and suggestions prior to submission to Air Quality Committee.
- (5) Dr. Johnson will coordinate completion of Coons Equivalent Opacity paper and issue (Item (4)).
- (6) Chairman will arrange to have New Product Pollution Potential Hazards Checklist completed and submitted to Air Quality Committee for approval (Item (5)).
- (7) Committee recommended C. G. Kramer, E. P. Wheeler, J. H. Rook, and P. W. McDaniel to serve with their senior executives as ad hoc committee to consider Joint Industry-University-Government National Facilities for Testing Long Term Health Effects on Humans.
- (8) Subcommittee recommends that \$20,000 be included in 1971-72 budget request to cover a literature search on health effects of airborne heavy-metals.

Mr. Spencer was asked to report on progress on the odor research at A. D. Little and submitted the following report.

September 16, 1970

MCA-NAPCA Odor Study at A. D. Little

A meeting was held at Arthur D. Little July 23 with representatives of NAPCA and A. D. Little, and Dr. Johnson and myself. The main discussion concerned ways and means of obtaining surplus Federal instrumentation rather than spending MCA and/or NAPCA funds. Jerry Romanovsky of NAPCA was most helpful and knowledgeable in this area.

As of September 16, a chair with suitable sensors in the arms had been located, but efforts to procure a polygraph have been futile. The whole program is at a standstill.

On Friday, September 18, Messrs. Kendall and Leonardos and Dr. Jacobs will review the situation and call Dr. Johnson and me September 27. Hopefully, a meeting can be set up quickly with NAPCA, MCA, and ADL to resolve the impasse or select an alternate approach to get the show on the road.

s/Emmet F. Spencer, Jr.

Emmet F. Spencer, Jr.

The chairman concluded his report with a plea to the full committee for suggestions and guidance for future subcommittee programs, and moved the adoption of the report. His motion was duly seconded and adopted by the Committee.

The Secretary agreed to distribute copies of Dr. Maycock's paper to members of the Committee who did not get one at the meeting.

2.0 Report of Special Subcommittees2.1 Report of Meetings Subcommittee

The ad hoc subcommittee for the selection of a September 1971 meeting site recommended either St. Louis or Chicago. The Committee selected Chicago and the Chairman asked Mr. Yeager to make preliminary arrangements for meeting facilities and selection of a guest speaker.

2.2 Report of Ad Hoc Subcommittee on Attorneys' Participation

Dr. Anthony submitted the following report, which was adopted by the Committee.

CMA 085913

Your committee concluded that through the years the attorney members have contributed materially to the success of the Air Quality Committee. Further that the need for legal guidance continues in such matters as:

- 1) Legislation at the state and local levels where much activity exists in adoption of new laws and revisions to old laws.
- 2) There is a continuing need for legal guidance in operating problems; for example establishing policy with regard to questionnaires from regulatory agencies.

Therefore we make the following resolution "that MCA take whatever steps may be necessary to reestablish a close working relationship between attorneys knowledgeable about air pollution matters and the Air Quality Committee. There is a strong feeling that legislation reporting should be revitalized as a direct responsibility of the Air Quality Committee independent of any efforts along that line of the Joint Subcommittee on Air and Water Pollution Legislation and Regulations."

2.3 Report of the Reactive Metals Subcommittee

Dr. Robert Banks of Airco Alloys has been elected Chairman of the subcommittee and we have added a new member to the group. Mr. Grover of Woodward Iron Company. Mr. Sourcer's of Tennessee Metallurgical, membership is pending.

The subcommittee has been active in following legislative developments, new regulations and enforcement actions of concern to the industry. The major thrust has been toward the joint NAPCA study which is now active. Final review of the Plant Survey Questionnaire has been completed as well as the sampling protocol.

3.0 Report of Public Relations Department - J. P. Turner

Mr. Turner summarized the results of their survey of change in reader attitudes toward the chemical industry follow in their receipt of Currents. This indicated that before they received that publication, five out of seven had unfavorable impressions of the industry's commitment to environmental protection, whereas after they had been reading Currents, only one in eleven retained this viewpoint.

He asked that Committee members take a greater interest in making case history material available to Pilot and Currents, and in writing articles for use in these journals.

4.0 Old Business

4.1 Budget Items

The special project budgets, based on present Committee recommendations, are

- a. for A. D. Little Odor Research - \$40,000
- b. for Heavy Metals Health Effects Study - \$20,000
- c. for expansion of Currents Mailing List - \$17,000

4.2 Liaison Assignments

The Chairman asked that, pending further adjustments, presently designated contacts for technical and professional society liaison, and for state reporting, continue with these assignments.

5.0 New Business

5.1 Effects on Health of Heavy Metals

Mr. Canniff of the Canadian Chemical Producers' Association, reported that "The National Research Council of Canada (NRC) have set up a new committee with separate secretariate to determine the effects on the environment of contaminants. Their first attack on this project is to do as complete as possible a literature survey of all world literature sources, of data in these areas. Where data is not conclusive, the NRC will set up to measure the effects. All of the data is to be published. It may be possible, that since heavy metal contamination has been given strong emphasis in Canada, that this may be an early item on their program."

He offered to explore with the NRC of Canada the prospects of developing their data on heavy metals in time to be of use in the proposed MCA project.

5.2 AAAS Article of Economic Impact of Health Effects of Air Pollution

The Secretary called to the Committee's attention the article "Air Pollution and Human Health" by Lester B. Love and Eugene P. Seskin, in Science, Vol. 169, pages 723-738 (August 21, 1970). If the implications of this article are supportable, then cost-benefit analysis would appear to lose any general validity as a defense against extremely rigid emission restriction regulations. It was suggested that MCA explore with other major trade associations the soundness of the assumptions made therein, with a view to either challenging errors or of adjusting our position to accommodate the authors views.

6.0 Reports of Developments in the States

Available reports are included in these minutes as an Appendix.

7.0 Future Meeting Schedules

7.1 January 26-27, 1971, in Houston, Texas, at the Sheraton Lincoln Hotel. Dr. Herbert C. McKee, Chairman of the Texas Air Control Board, will be our speaker.

7.2 April 21-22, 1971, in Philadelphia, Pa., probably at the Marriott Motor Hotel. Mr. Victor Sussman will be our guest speaker.

7.3 September 21-22, 1971, in St. Louis, Mo., at Stouffer's Riverfront Inn. Mr. Yeager has been asked to recruit a guest speaker.

Respectfully submitted,



Kenneth D. Johnson
Secretary
Air Quality Committee

KDJ/swb

Minutes subject to approval

January 25, 1971

APPENDIX

LIAISON REPORTS ON ACTIVITIES IN THE STATES

Reports were received on the following states:

Alaska - E. F. Spencer

Nothing to report

California - E. F. Spencer

This year's legislative session has seen more bills devoted to air quality than ever before, the majority of which were automobile oriented. The motor vehicle has occupied center stage, but the Legislature has not been idle with respect to stationary sources. As in other environmental areas, a great many bills were introduced, but apparently most of them will not pass.

Enacted to date are:

AB89 - Authorizes APCD officers to arrest offenders.

AB90 - Makes it easier for the APCD's to use injunctive authority to enforce their regulations.

AB88 - Provides a \$6 M a day fine for air pollution violators.

AB119- Authorizes judicial review, by writ of mandate, of decisions of APCD hearing boards.

Bills awaiting the Governor's signature include:

AB85 - Calls for Ringelmann 2 statewide and requires the Air Resources Board to report to the Legislature on the desirability of Ringelmann 1 standards.

AB1580-Requires that APCD's establish emission standards for lead from non-vehicular sources by January 1, 1972.

AB479- Extends active authority of the BAAPCD to Napa, Sonoma, and Solano counties which are included in the District, but not under its active control.

CMA 085917

Recently a program was started in the Los Angeles area to determine whether significant improvements in air quality would result if the opacity requirement is lowered to No. 1 Ringelmann equivalent. The investigation is jointly conducted by the Los Angeles APCD, the California Air Resources Board, and Southern California industry, which is providing both financial and technical support.

In the Bay Area, the Advisory Council has recommended the following new standards for Regulation 2 for new or expanded operations (expanded defined as 10% or greater throughput capacity):

0.15 grains/SDCF

$\text{SO}_2 < 300 \text{ ppm}$

40 lbs./hr. maximum process weight loss.

0.04 grain/SDCF H_2SO_4 mist.

0.15 grain/SDCF H_2SO_4 from scavenger plant.

Ringelmann 1 equivalent.

Existing to meet above within 2 years of effective date.

Indiana - C. B. Beck

Regulation 8 (Adopted September 1969)

Applies to Lake and Porter Counties, Indiana, for Chicago Interstate Air Quality Control Region; standards are to be reached by January 1, 1972.

a. Particulate

Maximum annual geometric mean - 75 ug/m^3 .
Maximum concentration of 200 ug/m^3 not to be exceeded more than 1% of days of year.
Maximum concentration of 260 ug/m^3 not to be exceeded more than one day/year.

CMA 085918

b. Sulfur dioxide

Maximum annual mean 0.015 ppm (43 ug/m^3 , 24 hr. sample).
Maximum 24 hour concentration 0.10 ppm (286 ug/m^3) not to be exceeded more than one day/year.
Maximum one-hour concentration of 0.142 ppm (119 ug/m^3) not to be exceeded more than one hour/year.

Regulation 9 (Adopted October 1969)

Applies to Ohio and Dearborn counties for metropolitan Cincinnati Interstate Air Quality Region; standards to be reached by January 1, 1975.

(Same as Regulation 8)

Regulation 10 (Adopted May 1970)

Applies to Marion, Boone, Hamilton, Hancock, Hendricks, Johnson, Morgan and Shelby counties, (Indianapolis Intrastate Air Quality Region) standards to be reached by January 1, 1973.

a. Particulates

Maximum annual geometric mean 65 ug/m^3 .

Maximum concentration of 180 ug/m^3 not to be exceeded more than 1% of days of year.

Maximum concentration of 220 ug/m^3 not to be exceeded more than one day per year.

b. Sulfur dioxide (Same as Regulation 8)

Regulation 11 (Adopted June 1970)

Applies to Clark and Floyd counties as part of metropolitan Louisville Interstate Air Quality Region; standards to be reached by April 1, 1973.

(Same as Regulation 10)

Regulation 12 (Adopted July 1970)

Statewide.

Defines air pollution episode alert levels:

- (1) Air pollution forecast, least severe.
- (2) Air pollution alert.
- (3) Air pollution warning.
- (4) Air pollution emergency.

The various definitions are based on meteorological conditions combined with SO_2 concentrations and COH measurements.

Regulation 13 (Proposed October 1970, hearing scheduled October 26, 1970.)

Statewide.

Federal regions to meet standards by previously designated target dates.

Plants in non-federal regions to submit timetable of compliance within six months of adoption of regulation. New plants to comply.

- (4) Board reserves right to apply more stringent controls than (2) and (3) for a large number of adjacent sources.
- (5) Residential exclusion.
- (6) Board may grant variance if human health and safety not endangered and Regulations 8, 9, 10 or 11 not violated.

Maryland - E. F. Spencer

Public hearings are scheduled September 25 for Montgomery and Prince George counties (2 D.C. bedroom counties). Schueneman's announcement states, "The proposed regulations which were presented at the March 17, 1970 public hearing have been improved substantially, and therefore a new public hearing is being held".

This is the understatement of the year. For starters, Gene proposes "No person shall permit the discharge of emissions from any building or installation, other than water in an uncombined form, which are visible to human observers". An exception of six minutes per hour of No. 1R or equivalent is proposed for new fires, soot blowing, etc.

Fines are raised to a maximum of \$10 M per violation.

Proposed particulate matter limits are as follows:

- 1. Residual oil: 0.03 to 0.02 gr/SDCF depending on size. 0.01 gr/SDCF for any new installations.
- 2. Coal: 0.05 to 0.03 gr/SDCF depending on size.
- 3. Incinerators: 0.03 gr/SDCF.
- 4. Other sources: Los Angeles process weight table or 0.03 gr/SDCF, whichever is more restrictive.

Sulfur regulations are as follows:

- 1. All fuels shall contain 1% or less sulfur.
- 2. After July 1, 1972, distillate fuel oils shall contain 0.3% or less sulfur.
- 3. After July 1, 1977, residual fuel oils shall contain 0.5% or less sulfur.

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4. Maximum stack SO_2 concentration is 2,000 ppm for existing, 500 ppm for new.
5. Maximum stack SO_3 concentration is 70 Mg/M^3 existing, 35 Mg/M^3 new.
6. H_2S limit is 0.03 ppm for 30 minutes.
7. Scavenger plants must reduce sulfur emissions by 95%.

The odor regulation prohibits objectionable odors beyond the property line. Objectionable odors are defined as "those odors deemed objectionable by 15% or more of a sample of people exposed to them. The number of people in said sample shall be at least 20 or, if fewer than 20 people are exposed in a particular situation 75% of the people exposed."

Missouri - A. H. Phelps

Kansas City: We have heard that the State was proposing ambient air standards on SO_2 like several of the more restrictive ones adopted elsewhere: .015 ppm annual geometric mean for example. We have also heard that there would be citizens at the public hearing proposing values $\frac{1}{4}$ of those proposed by the State because "these are the levels we have now." Interested member companies have been alerted and may be able to report on the hearing at the September meeting.

New York - E. F. Spencer

On Earth Day, Governor Rockefeller signed a bill creating a Department of Environmental Conservation. This is a super-agency, responsible for almost all aspects of environmental matters. Henry L. Diamond was appointed Commissioner on July 1. The industrial representative on the Board is Jerome Wilkenfeld. Recodification of all the existing regulations appears to be the first order of business.

Ohio - A. H. Phelps

NAPCA has contracted with TRW to devise a mathematical model for testing proposed emission standards against ambient air standards for a region. It has been their intention to use the Cincinnati Region as a proving ground for this approach. This testing is going slowly, and the implementation plan will probably be filed late in order to continue testing this approach.

Preliminary indications are that no existing set of regulations currently in use in the country will achieve the ambient air standards adopted for the Cincinnati Air Quality Control Region this January. There has been some talk (rumor) of emission standards on combustion like $.05 \text{ gr/ft}^3$ and of sulfur in fuel limits like less than .3%.

Wyoming - E. F. Spencer

Although the state adopted tight regulations last December, enforcement has been spotty because of limited manpower and money (2 man staff).

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