

EN-1029



E. I. DU PONT DE NEMOURS & COMPANY

INCORPORATED

WILMINGTON, DELAWARE 19898

cc: H. L. Adam-Emp. Rel.-Nemours
W. R. Chalker-ESD
W. S. Cotton-Du Pont of Canada-Kingston
D. B. Sebree-Legal-Du Pont Building
R. M. Shepherd-PP&R-Du Pont Building

IC 32

PLAINTIFF'S
EXHIBIT
DUP-885

ENGINEERING DEPARTMENT

February 27, 1979

PRESENT: L. T. FREELAND - CHAIRMAN - ELASCHEM - BEAUMONT
R. L. BARNHART - PETROCHEMICALS - VICTORIA
K. A. CHEN - CD&P - CHAMBERS WORKS - BUILDING 1094
R. J. DAM - ER&D - EPL
C. S. HORNBERGER - CR&D - HASKELL LAB
J. R. MARTIN - EMPLOYEE RELATIONS - NEMOURS
L. F. PERCIVAL - PP&R - DU PONT BUILDING
M. J. RANDOLPH - CD&P - BRANDYWINE
D. J. STITZER - DESIGN
R. W. STOWE - CD&P - EDGE MOOR
L. H. WILLIAMS - TEXTILE FIBERS - KINSTON
A. R. GREENING - STANDARDS SECTION
C. E. MARSH - STANDARDS SECTION

AR Greening

ABSENT: S. W. DIXON - ELASCHEM - LOUISVILLE
A. M. HAYES - ESD

VISITORS: S. E. BYE - PETROCHEMICALS - SENECA
R. L. KLAUSMEIER - STANDARDS SECTION
M. K. RICHARDS - ELASTOMERS - WILMINGTON
G. J. SZURLEY - PHOTO PRODUCTS - PARLIN

STANDARDS SECTION - AIR QUALITY SUBCOMMITTEE
MINUTES FOR THE MEETING HELD WEDNESDAY, FEBRUARY 7, 1979
AT 8:00 A.M. IN CONFERENCE ROOM, BEAUMONT WORKS

APPROVAL OF MINUTES

The minutes of the December 7, 1978, meeting were approved.

STANDARDS RELEASED FOR ISSUE - JANUARY

S2T - Revised and Reaffirmed.

L. T. Freeland noted that inorganic lead was not a carcinogen as the heading for Paragraph 2.4 indicates. It was agreed that the correct description for Paragraph 2.4.1 was a list of materials for which OSHA has issued regulations. It was agreed that no change was required at this time, but the heading of Paragraph 2.4 would be revised in the next issue of S2T. Subsequent to the meeting, further inquiries were received on this point and the chairman requested the revision be processed promptly.

DUP 1121658

DU 056103

A question was raised on the interpretation of Paragraph 4.5.3, which provides a means of reducing the TLV for a seven-day workweek. It was questioned whether this reduction should be made for a traditional shift schedule where a worker may work seven consecutive workdays but will work only five days in any given week and on a long-term basis will average five days per week. C. S. Hornberger is to check on the correct interpretation of this section.

The note "supersedes DGL2G" appearing on Page 1 is in error and will be deleted.

PRELIMINARY CONSIDERATION OF STANDARDS FOR REVIEW AT THE APRIL MEETING

Written comments are urged one month prior to the meeting date covering any recommended general or specific changes in the standards listed below:

J2L - Air Monitoring for Total Suspended Particulates - L. H. Williams
- T. A. Kittleman

J9M - Calibration Gas Standards for Source Monitoring Equipment -
- R. J. Dam
- R. E. Bucher

For the review of J9M, feedback on the use of aluminum gas cylinders is requested.

NEW STANDARDS

1. J3K (Proposed) - Compliance Testing of Facilities
The proposed standard prepared by S. E. Bye was reviewed. The need and usefulness of the proposed standard was questioned because of the complexity and variance of State laws. It was agreed that the standard will provide only general guidance, but the majority of the subcommittee felt that such guidance was needed and would be useful. The standard will be put in pink sheet format for further review by the subcommittee. M. K. Richards expressed a concern that the standard will get to the right people for review with the normal standards distribution. R. L. Klausmeier agreed that this question would be reviewed in the March Standards Committee meeting. The need for a legal review of this standard was questioned. It was the consensus that a legal review would be requested at the time the standard is serialized.
2. J4K (Proposed) - Certification of Analyzers
Discussion was deferred until the next meeting due to the absence of A. M. Hayes.

REVISED STANDARDS

3. J1L - Air Monitoring for Dust Fall
After discussion, it was agreed that J1L should be made a section of J2L. L. H. Williams is to follow up on this item.

DUP 1121659

DU 056104

4. J3L - Wind Speed and Direction Stations
R. I. Wevodau recommended reaffirmation of J3L with revised prices and the subcommittee agreed. A. R. Greening is to check with R. I. Wevodau on the wording in Paragraph 3.3.
5. J4L - Instrument Methods for Analysis for Sulfur Dioxide in Ambient Air
A revised draft of J4L was circulated to the subcommittee for review. J4L will be revised and reaffirmed in the draft form if no comments are received from subcommittee members by the end of the month. L. F. Percival is to provide wording for a new Paragraph 3.1.3.5, which will provide a warning that samples shipped to outside laboratories may lose part of their original SO₂ content.
6. J2N - Odor Control
J2N was reaffirmed without revisions.
7. J2P - Dispersion of Air Pollution from Isolated Sources
A revised version of J2P prepared by R. I. Wevodau was approved for typing in finished form with minor changes. It will be released for issue with author's review.
8. J4P - Evaluation of Air Pollution Abatement Methods
The revised draft of J4P dated January 22, 1979, prepared by T. A. Kittleman was approved for final typing with minor changes. It will be released for issue with author's review.
9. S11T - Priorities for Workspace Sampling for Exposure to Chemicals
A draft of C. S. Hornberger's completed two-page material data safety sheet was reviewed by the subcommittee. The two-page material data safety sheet is being used by CD&P and several other departments and is available from Stationery and Forms, General Services Department. After discussion, the subcommittee agreed that the two-page form should be added to S11T to supplement the existing four-page form. C. S. Hornberger is to revise S11T to incorporate the new material data safety sheet and forward the revised standard to A. R. Greening for typing.
10. S4T - Measurement and Control of Asbestos Dust Exposure
Proposed changes to S4T were reviewed by the subcommittee; however, the decision on changing the standard was deferred until an Ad Hoc Committee of L. F. Percival, S. W. Dixon, and M. J. Randolph make a general review of S4T and OSHA 1910.1001 requirements. The Ad Hoc Committee is to have a revised draft of S4T ready for review at the April meeting.
11. Monitoring Devices
In regard to the monitoring devices being developed by F&F Department and discussed at the Beaumont meeting, a representative from F&F will be at the April 5, 1979, meeting to review the opinions of the subcommittee members of potential interest in these devices.

DUP 1121660

DU 056105

ADJOURNMENT

The meeting adjourned at 11:30 a.m.

NEXT MEETING

The next meeting of the Air Quality Subcommittee is scheduled for Thursday, April 5, 1979, at 8:30 a.m. in Room 13418, Nemours Building (Employee Relations Conference Room).

ARG:ce

DUP 1121661

DU 056106

EN-1029



E. I. DU PONT DE NEMOURS & COMPANY
INCORPORATED

WILMINGTON, DELAWARE 19898

CC: H. L. Adam-Emp. Rel.-Nemours
W. R. Chalker-ESD
W. S. Cotton-Du Pont of Canada-Kingston
D. B. Sebree-Legal-Du Pont Building
R. M. Shepherd-PP&R-Du Pont Building
O. T. Skretvedt-ESD
IC 32

ENGINEERING DEPARTMENT

February 27, 1979

PRESENT: L. T. FREELAND - CHAIRMAN - ELASCHEM - BEAUMONT
R. L. BARNHART - PETROCHEMICALS - VICTORIA
K. A. CHEN - CD&P - CHAMBERS WORKS - BUILDING 1094
R. J. DAM - ER&D - EPL
C. S. HORNBERGER - CR&D - HASKELL LAB
J. R. MARTIN - EMPLOYEE RELATIONS - NEMOURS
L. F. PERCIVAL - PP&R - DU PONT BUILDING
M. J. RANDOLPH - CD&P - BRANDYWINE
D. J. STITZER - DESIGN
R. W. STOWE - CD&P - EDGE MOOR
L. H. WILLIAMS - TEXTILE FIBERS - KINSTON
A. R. GREENING - STANDARDS SECTION
C. E. MARSH - STANDARDS SECTION

ABSENT: S. W. DIXON - ELASCHEM - LOUISVILLE
A. M. HAYES - ESD

VISITORS: S. E. BYE - PETROCHEMICALS - SENECA
R. L. KLAUSMEIER - STANDARDS SECTION
M. K. RICHARDS - ELASTOMERS - WILMINGTON
G. J. SZURLEY - PHOTO PRODUCTS - PARLIN

STANDARDS SECTION - AIR QUALITY SUBCOMMITTEE
MINUTES FOR THE MEETING HELD WEDNESDAY, FEBRUARY 7, 1979
AT 8:00 A.M. IN CONFERENCE ROOM, BEAUMONT WORKS

APPROVAL OF MINUTES

The minutes of the December 7, 1978, meeting were approved.

STANDARDS RELEASED FOR ISSUE - JANUARY

S2T - Revised and Reaffirmed.

L. T. Freeland noted that inorganic lead was not a carcinogen as the heading for Paragraph 2.4 indicates. It was agreed that the correct description for Paragraph 2.4.1 was a list of materials for which OSHA has issued regulations. It was agreed that no change was required at this time, but the heading of Paragraph 2.4 would be revised in the next issue of S2T. Subsequent to the meeting, further inquiries were received on this point and the chairman requested the revision be processed promptly.

DUP 1121662

DU 056107

A question was raised on the interpretation of Paragraph 4.5.3, which provides a means of reducing the TLV for a seven-day workweek. It was questioned whether this reduction should be made for a traditional shift schedule where a worker may work seven consecutive workdays but will work only five days in any given week and on a long-term basis will average five days per week. C. S. Hornberger is to check on the correct interpretation of this section.

The note "supersedes DG12G" appearing on Page 1 is in error and will be deleted.

PRELIMINARY CONSIDERATION OF STANDARDS FOR REVIEW AT THE APRIL MEETING
Written comments are urged one month prior to the meeting date covering any recommended general or specific changes in the standards listed below:

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- T. A. Kittleman

J9M - Calibration Gas Standards for Source Monitoring Equipment -
- R. J. Dam
- R. E. Bucher

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NEW STANDARDS

1. J3K (Proposed) - Compliance Testing of Facilities
The proposed standard prepared by S. E. Bye was reviewed. The need and usefulness of the proposed standard was questioned because of the complexity and variance of State laws. It was agreed that the standard will provide only general guidance, but the majority of the subcommittee felt that such guidance was needed and would be useful. The standard will be put in pink sheet format for further review by the subcommittee. M. K. Richards expressed a concern that the standard will get to the right people for review with the normal standards distribution. R. L. Klausmeier agreed that this question would be reviewed in the March Standards Committee meeting. The need for a legal review of this standard was questioned. It was the consensus that a legal review would be requested at the time the standard is serialized.
2. J4K (Proposed) - Certification of Analyzers
Discussion was deferred until the next meeting due to the absence of A. M. Hayes.

REVISED STANDARDS

3. J1L - Air Monitoring for Dust Fall
After discussion, it was agreed that J1L should be made a section of J2L. L. H. Williams is to follow up on this item.

DUP 1121663

DU 056108

4. J3L - Wind Speed and Direction Stations
R. I. Wevodau recommended reaffirmation of J3L with revised prices and the subcommittee agreed. A. R. Greening is to check with R. I. Wevodau on the wording in Paragraph 3.3.
5. J4L - Instrument Methods for Analysis for Sulfur Dioxide in Ambient Air
A revised draft of J4L was circulated to the subcommittee for review. J4L will be revised and reaffirmed in the draft form if no comments are received from subcommittee members by the end of the month. L. F. Percival is to provide wording for a new Paragraph 3.1.3.5, which will provide a warning that samples shipped to outside laboratories may lose part of their original SO₂ content.
6. J2N - Odor Control
J2N was reaffirmed without revisions.
7. J2P - Dispersion of Air Pollution from Isolated Sources
A revised version of J2P prepared by R. I. Wevodau was approved for typing in finished form with minor changes. It will be released for issue with author's review.
8. J4P - Evaluation of Air Pollution Abatement Methods
The revised draft of J4P dated January 22, 1979, prepared by T. A. Kittleman was approved for final typing with minor changes. It will be released for issue with author's review.
9. S11T - Priorities for Workspace Sampling for Exposure to Chemicals
A draft of C. S. Hornberger's completed two-page material data safety sheet was reviewed by the subcommittee. The two-page material data safety sheet is being used by CD&P and several other departments and is available from Stationery and Forms, General Services Department. After discussion, the subcommittee agreed that the two-page form should be added to S11T to supplement the existing four-page form. C. S. Hornberger is to revise S11T to incorporate the new material data safety sheet and forward the revised standard to A. R. Greening for typing.
10. S4T - Measurement and Control of Asbestos Dust Exposure
Proposed changes to S4T were reviewed by the subcommittee; however, the decision on changing the standard was deferred until an Ad Hoc Committee of L. F. Percival, S. W. Dixon, and M. J. Randolph make a general review of S4T and OSHA 1910.1001 requirements. The Ad Hoc Committee is to have a revised draft of S4T ready for review at the April meeting.
11. Monitoring Devices
In regard to the monitoring devices being developed by F&F Department and discussed at the Beaumont meeting, a representative from F&F will be at the April 5, 1979, meeting to review the opinions of the subcommittee members of potential interest in these devices.

DUP 1121664

DU 056109

ADJOURNMENT

The meeting adjourned at 11:30 a.m.

NEXT MEETING

The next meeting of the Air Quality Subcommittee is scheduled for Thursday, April 5, 1979, at 8:30 a.m. in Room 13418, Nemours Building (Employee Relations Conference Room).

ARG:ce

DUP 1121665

DU 056110



E. I. DU PONT DE NEMOURS & COMPANY
INCORPORATED

WILMINGTON, DELAWARE 19898

ENGINEERING DEPARTMENT
LOUVIERS BUILDING

cc: H.L.Adam-Emp. Rel.-Nemours
S.E.Bye-Petrochem-Seneca
T.A.Kittleman-ESD (Items 1-2)
O.T.Skretvedt-CR&D-Haskell Lab
J.W.Bowman-Emp. Rel.-Nemours
W.H.Darnell-C&P-Brandywine
W.S.Cotton-DuPont Canada, Inc.-Kingston
S.S.O'Shea-DuPont Canada, Inc.-
Mississauga
J.N.Glenn-Design
IC ~~42~~

October 7, 1980

PRESENT: L. T. FREELAND - CHAIRMAN - POLYMER PROD. - BEAUMONT
R. L. BARNHART - PETROCHEMICALS - VICTORIA
D. J. CALVO - POLYMER PRODUCTS - LOUISVILLE
K. A. CHEN - C&P - CHAMBERS WORKS - BUILDING 1094
R. J. DAM - ER&D - EPL
S. W. DIXON - CR&D - HASKELL
J. R. MARTIN - EMPLOYEE RELATIONS - NEMOURS
R. A. MEAD - F&F - BRANDYWINE
J. A. MORELLO - ESD
L. F. PERCIVAL - POLYMER PRODUCTS - DU PONT
D. J. STITZER - DESIGN
R. W. STOWE - C&P - EDGE MOOR
A. R. GREENING - STANDARDS SECTION *AR Greening*

ABSENT: L. H. WILLIAMS - TEXTILE FIBERS - KINSTON

VISITORS: J. W. BOWMAN - ~~XXXXXXXXXXXX~~ NEMOURS
J. MATTSON - CR&D - HASKELL LAB

STANDARDS SECTION - AIR QUALITY SUBCOMMITTEE
MINUTES FOR THE MEETING HELD THURSDAY, OCTOBER 2, 1980
AT 8:30 A.M. IN ROOM 13418, NEMOURS BUILDING

APPROVAL OF MINUTES

The minutes of the August 7, 1980 meeting were approved.

AIR QUALITY STANDARDS BOOKLET

Please insert the following in your Air Quality Standards Booklet.

- A revised index for the booklet.
- An Alphabetical Index for Du Pont Engineering Standards.
- Revised green sheet copies of J1J, J3J, J5L, and J6M.

Your booklet should be up to date with the above additions.
Please contact Charlene Erthal at 366-2364 if you need up-to-date copies of any other standards.

DUP 1121667

DU 056111

NEW STANDARDS

1. S8H (Proposed) - Respiratory Protection Fit Testing -
J. R. Martin

Replies to serial letter comments were issued August 18, 1980. No additional comments were received. A revised draft is in composition. It will be circulated to the subcommittee for final review and approval prior to issue.

L. T. Freeland reported the additional suggestions had been received from O. T. Skretvedt and T. J. Nelson. After reviewing these suggestions with several members of the subcommittee, the following action was taken:

- Paragraph 3.7.2 was revised to require a 5X safety factor when a single fit test is used.
- Suggestions to provide masks from at least two vendors and to not allow adjustment of the mask during testing were not accepted.

The 5X safety factor will provide a 95 percent confidence level that protection will be adequate while the 10X safety factor suggested would provide a 99 percent confidence level. The 95 percent confidence level is consistent with S12T.

2. S7H (Proposed) - Chemical Protective Clothing (Safety & Fire Protection Subcommittee responsibility - K. A. Chen, L. F. Percival
J. Mattson of Haskell Lab reported that the monograph on glove protection will be issued by the end of October. The report will include a description of the test procedure, a summary of available data, and guidance on application.

It was agreed that work on the standard should be expedited. Members of the Ad Hoc Committee on the standard are:

J. W. Bowman
D. E. Speier
L. F. Percival
K. A. Chen
N. W. Henry
J. E. Wright
A. R. Greening

3. S-G (Proposed) - Microwave and Radio-Frequency Radiation Safety
R. J. Dam

A revised draft dated 10/10/80, which incorporates comments on earlier drafts, was circulated to the subcommittee. The draft was approved for preparation in standard format pending resolution of questions on the exposure limits set by Haskell Lab. R. J. Dam is to forward a revised copy to A. R. Greening for composition.

DUP 1121668

DU 056112

REVISED STANDARDS

4. Sl3T - Hardware for Workspace Sampling and Analytical Methods (12/78) - S. W. Dixon, L. T. Freeland
Pink sheet copies of Sl3T were circulated to the subcommittee. The standard will be released for issue on October 9, 1980, unless objections are received by that date.

5. S2T - Threshold Limit Values of Airborne Contaminants (1/80)
A draft of S2T prepared by L. T. Freeland and J. R. Martin was reviewed and approved for composition. Before submitting to composition, A. R. Greening is to revise the Scope section into separate Scope and General sections and indicate in the General section how the various exposure limits are to be used. Greening is also to have the Z tables checked by the Legal Library to ensure that they are current.

Pink sheet copies will be circulated for final review prior to issue.

6. Sl1T - Priorities for Workspace Sampling for Exposure to Chemicals (8/79) - D. J. Calvo, S. W. Dixon
A revised draft of Sl1T is in composition. Pink sheet copies will be distributed for final review and approval prior to issue.

7. J1M - Measurement of Visible Emissions - R. W. Stowe
J1M was approved for reaffirmation with a minor change to Paragraph 2.6.

8. Sl2T - Strategy for Workspace Sampling for Exposure to Chemicals (11/78)
It was agreed that the table on return sampling requirements in Paragraph 6.4.1.5 is to be revised by K. A. Chen, S. W. Dixon, and R. L. Barnhart. A. R. Greening is to add the qualifications developed by J. R. Martin for S2T to the references in Sl2T. Greening is also to check with R. E. Wheeler to determine if his revisions have been completed.

9. 1981 WORK SCHEDULE
The following assignments for 1981 reviews were made:

- J2M - R. A. Mead
- J8M - R. L. Barnhart

Marked copies are due to A. R. Greening by December 31, 1980.

The following subjects were suggested for possible new standards to be developed:

- A roadmap standard for complying with PSD regulations.

DUP 1121669

DU 056113

- A standard on spill and leak protection.
- A standard on preparation of MSDS (Material Safety Data Sheets).
- A standard on communication of chemical hazards information.
- A standard on food handling and sanitary facilities.

It was agreed that a meeting would be held at Haskell Lab in the spring with a 1/2-day business meeting and a 1/2-day tour.

10. S4T - Measurement and Control of Asbestos Dust Exposure
L. F. Percival reported that there was confusion on the requirements for maintaining lists of personnel with exposure to asbestos in previous Du Pont jobs or off-plant prior to or during Du Pont employment. He will prepare a proposed revision.

ADJOURNMENT

The meeting adjourned at 3:00 p.m.

NEXT MEETING

The next meeting of the Air Quality Subcommittee was rescheduled for Thursday, January 22, 1980, at 8:30 a.m.

ARG:ce

Atch

DUP 1121670

DU 056114



E. I. DU PONT DE NEMOURS & COMPANY
INCORPORATED
WILMINGTON, DELAWARE 19898

CC: H.L.Adam-Emp.Rel.-Nemours
S.E.Bye-Petrochem-Seneca
T.A.Kittleman-ESD
O.T.Skretvedt-CR&D-Haskell Lab
J.W.Bowman-Emp.Rel.-Nemours (Item 2)
R.E.Munson-Emp.Rel.-Nemours (Item 2)
W.S.Cotton-DuPont Canada, Inc.-Kingston
IC 32

ENGINEERING DEPARTMENT
LOUVIERS BUILDING

August 19, 1980

PRESENT: L. T. FREELAND - CHAIRMAN - POLY. PROD. - BEAUMONT
R. L. BARNHART - PETROCHEMICALS - VICTORIA
D. J. CALVO - POLYMER PRODUCTS - LOUISVILLE
K. A. CHEN - C&P - CHAMBERS WORKS - BUILDING 1094
R. J. DAM -ER&D - EPL
S. W. DIXON - CR&D - HASKELL LAB
R. C. COOLEY (ALT. FOR J. R. MARTIN) - EMP. REL. - NEMOURS
R. A. MEAD - F&F - BRANDYWINE
J. A. MORELLO - ESD
L. F. PERCIVAL - POLYMER PRODUCTS - DU PONT
D. J. STITZER - DESIGN
A. R. GREENING - STANDARDS SECTION

A. R. Greening

ABSENT: R. W. STOWE - C&P - EDGE MOOR
L. H. WILLIAMS- TEXTILE FIBERS - KINSTON

VISITORS: W. H. DARNELL - C&P - BRANDYWINE
W. E. MC ENROE - CR&D - HASKELL LAB

STANDARDS SECTION - AIR QUALITY SUBCOMMITTEE
MINUTES FOR THE MEETING HELD THURSDAY, AUGUST 7, 1980
AT 8:30 A.M. IN ROOM 13418, LOUVIERS BUILDING

APPROVAL OF MINUTES

The minutes of the June 5, 1980, meeting were approved as written.

NEW STANDARDS

1. S8H (Proposed) - Respiratory Protection Fit Testing - J.R.Martin
Proposed serial letter comments prepared by L. T. Freeland and A. R. Greening were reviewed, revised, and approved. The following items require additional follow up:
 - Several requests were received to include the qualitative test procedures which uses isoamyl acetate and a stencil brush. This procedure was in early drafts of S8H. S. W. Dixon is to review this request with Haskell Lab. If Haskell Lab agrees, the procedure will be added.

DUP 1121671

DU 056115

- Paragraph 2.6 recommends against fit testing employees with facial hair. Requests for a stronger statement were received along with a recommendation to delay issuing the standard until the current controversy over the issue is resolved. A. R. Greening is to review Paragraph 2.6 with Legal prior to issue.
- 2. S7H (Proposed) - Chemical Protective Clothing - K. A. Chen, L. F. Percival
No progress on preparation of the standard has been made. It was reported that a rough draft of a compendium report on Company protective equipment studies would be completed this month.
The subcommittee expressed a strong interest in completing this standard. The subcommittee also believes that specific recommendations on materials should be included in the standard.
- 3. S-G (Proposed) - Microwave and Radio-Frequency Radiation Safety R. J. Dam
A revised draft was circulated to the subcommittee on August 1, 1980. Comments are to be returned to R. J. Dam by August 20.

REVISED STANDARDS

- 4. S13T - Hardware for Workspace Sampling and Analytical Methods (12/78) - S. W. Dixon, L. T. Freeland
S13T is in composition. Pink sheet copies will be circulated for final approval prior to issue.
- 5. S2T - Threshold Limit Values of Airborne Contaminants (1/80)
L. T. Freeland reported that revision was in progress. The decision to delete the ACGIH tables and include the OSHA "Z" tables was reaffirmed.
- 6. S11T - Priorities for Workspace Sampling for Exposure to Chemicals (8/79) - D. J. Calvo, S. W. Dixon
Changes made in the pink sheet draft dated 8/6/80 were reviewed and general agreement on the Scope of the changes was obtained. Members are to review the standard in detail and send additional comments to S. W. Dixon by 8/22/80.

It was agreed that wordings for the degree of exposure descriptions in Paragraph 6.8.1 should be revised to conform with TOSCA 8A.

The need for a serial letter issue of the revised standard was discussed and it was agreed that a serial letter was not required. The next draft of S11T is to be circulated informally by the subcommittee members within their departments.

The current goal is to have a final draft ready for approval by mid November.

7. JLM - Measurement of Visible Emissions - R. W. Stowe
Work on revision of JLM is in progress.
8. "Workshop" on Occupational Health/Industrial Hygiene, Air Sampling
L. T. Freeland announced that the workshop would be held September 30 and October 1 at the Ramada Inn in Wilmington under ESD sponsorship. All attendees will be required to present a paper. An announcement of the workshop will be issued next week.
9. Transite Siding
 - It was reported that Lucite® paint has been successfully used to stabilize deteriorating Transite siding for a five-year period.
 - It was reported that siding installed for 25 years at another site was in good condition.

ADJOURNMENT

The meeting adjourned at 3:30 p.m.

NEXT MEETING

The next meeting of the Air Quality Subcommittee is scheduled for Thursday, October 2, 1980, at 8:30 a.m. in Room 13418, Nemours Building.

ARG:ce

DUP 1121673

DU 056117



E. I. DU PONT DE NEMOURS & COMPANY
INCORPORATED
WILMINGTON, DELAWARE 19898

ENGINEERING DEPARTMENT
LOUVIERS BUILDING

cc: H.L.Adam-Emp Rel-Nemours
S.E.Bye-Petrochem-Seneca
T.A.Kittleman-ESD (Item 10)
O.T.Skretvedt-CR&D-Haskell Lab
J.W.Bowman-Emp Rel-Nemours
R.E.Munson-Emp Rel-Nemours (Item 9)
W.S.Cotton-DuPont Canada, Inc.-Kingston
J.N.Glenn-Design
W.R.Hitchens-Standards Section (Item 7)
IC ~~32~~

June 25, 1980

PRESENT: L. T. FREELAND - CHAIRMAN - POLYMER PRODUCTS - BEAUMONT
R. L. BARNHART - PETROCHEMICALS - VICTORIA
D. J. CALVO - POLYMER PRODUCTS - LOUISVILLE
K. A. CHEN - CD&P - CHAMBERS WORKS - BUILDING 1094
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R. W. STOWE - CD&P - EDGE MOOR
L. H. WILLIAMS - TEXTILE FIBERS - KINSTON
A. R. GREENING - STANDARDS SECTION *AR Greening*

ABSENT: D. J. STITZER - DESIGN

VISITOR: M. K. RICHARDS - POLYMER PRODUCTS - DU PONT

STANDARDS SECTION - ~~XXXXXXXXXXXXXXXXXXXX~~
MINUTES FOR THE MEETING HELD THURSDAY, JUNE 5, 1980
AT 8:30 A.M. IN ROOM 13418, NEMOURS BUILDING

APPROVAL OF MINUTES

The minutes of the meeting held April 18, 1980, were approved.

STANDARDS ISSUED APRIL AND MAY

None

NEW STANDARDS

1. S8H (Proposed) - Respiratory Protection Fit Testing - J. R. Martin

J. R. Martin reported that S8H was not issued on a serial letter because recent Haskell Lab data indicates that higher protection factors can be obtained with qualitative fit testing than previously believed. The higher protection factors (400 to 1,000) are obtained with a qualitative procedure incorporating:

- Training prior to the initial fit test

DUP 1121674

DU 056118

REVISED STANDARDS

4. J1J - Selected References on Air Pollution (9/76) - J. A. Morello, R. J. Dam
A revised draft of J1J is in composition. It will be circulated to the subcommittee in pink sheet form for final approval prior to issue.
5. J3J - Conversion Factors (7/76) - D. J. Stitzer
A revised draft of J3J is in composition. It will be circulated to the subcommittee in pink sheet form and final approval prior to issue.
6. SL3T - Hardware for Workspace Sampling and Analytical Methods (12/78) - S. W. Dixon, L. T. Freeland
A. R. Greening reported that all changes to SL3T agreed to at the April meeting were completed except for the revision of the section on passive dosimeters. L. T. Freeland is to revise this section. The revised standard will be circulated for final approval prior to issue.
7. S2T - Threshold Limit Values of Airborne Contaminants - S. W. Dixon, L. T. Freeland
S. W. Dixon reported that Haskell now concurs with the use of STEL valves in some cases. Haskell should be contacted, however, if difficulties in meeting STEL valves are encountered. L. T. Freeland is to prepare a revised draft of S2T incorporating the changes agreed to at the April meeting.
8. J5L - Calibration Gas Standards For Ambient Air Monitoring - L. H. Williams, R. A. Mead
Revisions proposed by L. H. Williams and R. A. Mead were approved. J5L was approved for issue pending an author's review of the final draft.
9. J1M - Measurement of Visible Emissions - R. W. Stowe
R. W. Stowe will have a revised draft ready for review at the next meeting.
10. J6M - Noncontinuous Stack Sampling for Sulfur Dioxide - R. L. Barnhart, K. A. Chen
A revised draft was approved for issue pending review of the final draft by the authors.

ADJOURNMENT

The meeting adjourned at 3:00 p.m.

NEXT MEETING

The next meeting of the Air Quality Subcommittee is scheduled for Thursday, August 7, 1980, at 8:30 a.m. in Room 13418, Nemours Building.

ARG:ce

DUP 1121676

DU 056119



E. I. DU PONT DE NEMOURS & COMPANY
WILMINGTON, DELAWARE 19898

ENGINEERING DEPARTMENT
LOUVIERS BUILDING

cc: H.L.Adam-Emp Rel-Nemours
S.E.Bye-Petrochem-Seneca
T.A.Kittleman-ESD (Item 10)
O.T.Skretvedt-CR&D-Haskell Lab
J.W.Bowman-Emp Rel-Nemours
R.E.Munson-Emp Rel-Nemours (Item 9)
W.S.Cotton-DuPont Canada, Inc-Kingston
J.N.Glenn-Design
W.R.Hitchens-Standards Section (Item 7)
IC 52

April 18, 1980

PRESENT: L. T. FREELAND - CHAIRMAN - POLYMER PRODUCTS - BEAUMONT
R. L. BARNHART - PETROCHEMICALS - VICTORIA
D. J. CALVO - CR&D - HASKELL LAB
R. J. DAM - ER&D - EPL
S. W. DIXON - CR&D - HASKELL LAB
N. D. JOHNSON (ALT. FOR J. R. MARTIN) - EMP. REL. - NEMOURS
R. A. MEAD - F&F - BRANDYWINE
J. A. MORELLO - ESD
D. J. STITZER - DESIGN
R. W. STOWE - CD&P - EDGE MOOR
A. R. GREENING - STANDARDS SECTION

ABSENT: K. A. CHEN - CD&P - CHAMBERS WORKS - BUILDING 1094
L. F. PERCIVAL - POLYMER PRODUCTS - DU PONT
L. H. WILLIAMS - TEXTILE FIBERS - KINSTON

STANDARDS SECTION - AIR QUALITY SUBCOMMITTEE
~~MINUTES FOR THE MEETING HELD THURSDAY, APRIL 10, 1980~~
AT 8:30 A.M. IN ROOM 13418, NEMOURS BUILDING

APPROVAL OF MINUTES
The minutes of the meeting held January 10, 1980, were approved.

STANDARDS ISSUED IN JANUARY
S2T (Revision and Reaffirmation)

STANDARDS ISSUED FEBRUARY AND MARCH
None

NEW STANDARDS

1. S8H (Proposed) - Respiratory Protection Fit Testing - J. R. Martin
S8H was not issued on a serial letter at J. R. Martin's request. Haskell Lab has developed data which indicates that protection factors of 400 to 3,000 can be obtained with a revised qualitative fit testing protocol. A final report on the testing program is expected in May. S8H will be revised and issued on a serial letter after the final report is received.

DUP 1121677

DU 056120

2. S7H (Proposed) - Chemical Protective Clothing - K. A. Chen,
L. F. Percival
A. R. Greening reported that J. W. Bowman expects to have a draft ready by the middle of the year. The ASTM F-23 Committee is expected to approve a permeation test method in June.

REVISED STANDARDS

3. J1J - Selected References on Air Pollution (9/76) - J. A. Morello,
R. J. Dam
A complete rewrite of J1J prepared by J. A. Morello and R. J. Dam was circulated and discussed. The subcommittee members are requested to review the rewrite and submit comments to R. J. Dam by 4/30/80. After comments, a revised draft is to be forwarded to A. R. Greening for preparation in standards format.

Pink sheet copies of the revised draft are to be circulated to the subcommittee for final review and approval prior to issue.

4. J3J - Conversion Factors (7/76) - D. J. Stitzer
Revisions to J3J proposed by D. J. Stitzer were reviewed and approved for issue pending circulation of pink sheet copies to the subcommittee for final review.
5. S13T - Hardware for Workspace Sampling and Analytical Methods (12/78) - S. W. Dixon, L. T. Freeland
Changes to S13T proposed by S. W. Dixon were reviewed and S13T was approved for issue pending the following:
 - Paragraph 4.3 - S. W. Dixon to revise wording.
 - Paragraph 5.4.2.2 - Century Systems Corporation has been acquired by Foxboro. L. T. Freeland is to check with Foxboro to determine if model numbers for the Century equipment will change.
 - Paragraph 7.7 - S. W. Dixon is to revise wording.
 - Paragraph 9.4 - Du Pont is to be added to the Manufacturers list. L. T. Freeland is to supply required information which is expected to be available in mid-May.
 - Paragraph 9.7.3 - A. R. Greening is to check with Photo Products on the availability of their GC/MS Systems.
 - Paragraph 10.4 - D. J. Calvo is to revise to include a note indicating that the Bendix units must be sent back to the vendor for weighing.
 - Paragraph 13 - R. W. Stowe is to provide a new address for Research Appliance Company.

DUP 1121678

6. S2T - Threshold Limit Values of Airborne Contaminants (1/80)

Continued publication of the ACGIH TLV tables in S2T has been questioned because at least 3,700 copies of the ACGIH booklet are purchased by Du Pont (vs. the approximately 2,000 copies of S2T that are printed) and because it is expected that Haskell may in the future recommend AEL's less conservative than the ACGIH TLV's. After an extended discussion, the following changes to S2T were agreed to:

- Add the OSHA Z tables (1910.1001).
- Delete the ACGIH TLV tables but retain a discussion of the ACGIH tables.
- Include as references:
 - The ACGIH TLV tables
 - The NIOSH/OSHA Pocket Guide to Chemical Hazards
 - The OSHA Industrial Hygiene Field Operations Manual
- Add Haskell AEL values when they are available for publication.
- Change title to "Exposure Limits for Airborne Contaminants."
- Add Du Pont experimental and suspected carcinogen lists, but do not include the ISD synonym list.
- Eliminate the novel work schedule discussion.

A revised draft is to be prepared by L. T. Freeland, J. R. Martin, and A. R. Greening. Pink sheet copies of the revised draft are to be circulated to the subcommittee for review. Copies of the final draft will be circulated to Legal and Haskell Lab prior to issue.

7. S11T - Setting Occupational Health Priorities (8/79) -

D. J. Calvo, S. W. Dixon

S. W. Dixon proposed that the Scope of S11T be expanded from "setting priorities for work space sampling" to "setting occupational health priorities" and that in Section 5 greater weight be given to the degree of exposure. Details were attached to the meeting agenda.

A general agreement on Dixon's proposals was obtained. It was agreed that the title should be changed to "Setting Occupational Health Priorities." S. W. Dixon and D. J. Calvo are to prepare a revised draft of S11T for review by the subcommittee. Additional items to be considered in the revision are:

- Relocate Section 7 to the beginning of the standard.
(See H. M. Baker's letter of 9/6/79.)

DUP 1121679

DU 056122

- Indicate that the standard can be used for two phases of priority setting, i.e.:

Phase 1 - Setting priorities for sampling.

Phase 2 - Setting priorities for corrective action.
(Add example for Phase 2.)

- Indicate that rankings obtained are relative only, not absolute.
- Consider use of a hazard index such as used in H3U (green copy attached).
- Cover differences between using standard with engineering calculations and with data from sampling.

The revised standard is to be publicized in the Standards Newsletter and the Safety Management Bulletin when it is issued.

8. S-G (Proposed) - Microwave and Radio-Frequency Radiation Safety - R. J. Dam
Responsibility for development of this proposed new standard was assigned to R. J. Dam. J. R. Martin will be a consultant.
9. Vessel Entry
L. T. Freeland reported that OSHA and NIOSH are reviewing vessel entry procedures. Action by OSHA or NIOSH could affect S16G.
10. PSD Monitoring Requirements
L. T. Freeland reported on conversations with T. A. Kittleman on the need for a standard to assist plants in meeting PSD monitoring requirements. The standard would provide a "roadmap" to follow. T. A. Kittleman will assist in development.

The first step will be to develop a justification, Scope, and outline for the proposed standard for review by Standards management.
11. "Workshop" on Occupational Health/Industrial Hygiene, Air Sampling
L. T. Freeland reported that preliminary plans (attached) have been developed for a workshop to be held the two days before the October Air Quality meeting.
12. 1980 PROGRAM GOALS
1980 program goals were reviewed by A. R. Greening and a recommended format for reviewing standards to meet these goals was distributed.

ADJOURNMENT

The meeting adjourned at 1:30 p.m.

NEXT MEETING

The next meeting of the Air Quality Subcommittee is scheduled for Thursday, June 5, 1980, at 8:30 a.m. in Room 13418, Nemours Building.

ARG:ce
Atchs

DUP 1121680

DU 056123

cc: J. R. Martin, Wilmington
J. A. Morello, Wilmington
J. L. Parsons, Wilmington
J. R. Potts, Wilmington
T. J. Kiwala, Canada
R. L. McClure, Beaumont
J. E. Nauss, Beaumont

April 2, 1980

TO: H. A. SMITH, WILMINGTON

FROM: L. T. FREELAND, BEAUMONT

CORPORATE "WORKSHOP" ON OCCUPATIONAL HEALTH/INDUSTRIAL HYGIENE AIR SAMPLING

After several months of discussion, a group willing to coordinate a workshop in this important field has been formed. The name "Workshop" was selected because each person who attends will be expected to make a short presentation and an abstract.

The sponsoring group will be ESD--coordinated by John Potts. The first meeting was held March 27 (Freeland, Morello, Potts) with the following decisions:

- Name will be "Workshop on Occupational Health/Industrial Hygiene-Air Sampling."
- The format will be a 1.5-1.75 days in Wilmington area on September 30 and October 1, 1980. (This will be before the Air Quality Subcommittee Meeting, October 2, cost effective.)
- John Potts will coordinate and issue a notice describing the format to appear in the ISO Environmental Newsletter (L. E. Rassmussen, April issue). Because of all the previous discussions also mentioned will be Freeland and Morello as coordinators.
- A list of potential participants was developed (30 names) and contacts will be conducted by ESD. Past participants in the Air Sampling ESD Course will be canvassed.
- Abstracts will be required for all presentations by July 15, 1980. It will be necessary to present some data for discussion in order to attend.
- The fee for this workshop will be nominal to cover cost of luncheon, evening dinner and printing. Probable site is Ramada Inn, but may change as John Potts evaluates.
- Final program will be assembled prior to Air Quality Subcommittee Meeting in the week of August 4 through 8.

This workshop is designed to bring together personnel at the working level to exchange analytical aids and problems. All attendees will be provided a questionnaire to critique this course, suggest topics for followup items and desirability/timing for the future workshops.

Your support is solicited, and any suggestions should be forwarded to me. The organizers believe it will serve as a means to prevent re-invention of wheels and should be cost effective for Du Pont. It is long overdue and will provide one of the most suitable vehicles for information exchange.

LTF:fb

DUP 1121681

DU 056124



E. I. DU PONT DE NEMOURS & COMPANY

INCORPORATED

WILMINGTON, DELAWARE 19898

CC: H.L. Adam-Emp Rel-Nemours
 S.E. Bye-Petrochem-Seneca
 W.S. Cotton-Du Pont Canada, Inc. - Kingston
 T.A. Kittleman-ESD
 O.T. Skretvedt-CR&D-Haskell Lab
 IC 32

ENGINEERING DEPARTMENT
 LOUVIERS BUILDING

January 28, 1980

PRESENT: L. T. FREELAND - POLYMER PRODUCTS - BEAUMONT
 R. L. BARNHART - PETROCHEMICALS - VICTORIA
R. Hemingway - ~~R. HEMINGWAY~~ (ALT. FOR D. J. CALVO) - CR&D - HASKELL LAB
 K. A. CHEN - CD&P - CHAMBERS WORKS - BLDG. 1094
 R. J. DAM - ER&D - EPL
 J. R. MARTIN - EMPLOYEE RELATIONS - NEMOURS
 R. A. MEAD - F&F - BRANDYWINE BUILDING
 J. A. MORELLO - ESD
 D. J. STITZER - DESIGN
 L. H. WILLIAMS - TEXTILE FIBERS - KINSTON
 A. R. GREENING - STANDARDS SECTION *AR Greening*

ABSENT: S. W. DIXON - POLYMER PRODUCTS - LOUISVILLE
 L. F. PERCIVAL - POLYMER PRODUCTS - DU PONT
 R. W. STOWE - CD&P - EDGE MOOR

STANDARDS SECTION - AIR QUALITY SUBCOMMITTEE
 MINUTES FOR THE MEETING TO BE HELD THURSDAY, JANUARY 10, 1980
 AT 8:30 A.M. IN ROOM 13418, NEMOURS BUILDING

APPROVAL OF MINUTES

The minutes of the meeting held October 23, 1979, were approved.

STANDARDS RELEASED FOR ISSUE IN JANUARY

S2T (Revision & Reaffirmation)

NEW STANDARDS

1. S8H (Proposed) - Respiratory Protection Fit Testing - J. R. Martin
 A revised draft of S8H prepared by J. R. Martin which incorporated comments by O. T. Skretvedt was reviewed in detail. The draft was approved for serial letter issue pending:
 - a. Preparation of a new Section 4 by J. R. Martin to clarify when qualitative testing is adequate and when quantitative fit is required.

DUP 1121682

DU 056125

June Review - (Draft due to A. R. Greening 5/1/80)
J5L - L. H. Williams, R. A. Mead
J1M - R. W. Stowe
J6M - R. L. Barnhart, K. A. Chen
S11T - D. J. Calvo , S. W. Dixon

August Review - (Draft due to A. R. Greening 7/1/80)
S12T - K. A. Chen, S. W. Dixon

October Review - (Draft due 9/1/80)
S2T - A. R. Greening, D. J. Calvo

ADJOURNMENT

The meeting adjourned at 3:30 p.m.

NEXT MEETING

The next meeting of the Air Quality Subcommittee is scheduled for Thursday, April 10, 1980, at 8:30 a.m. in Room 13418, Nemours Building.

ARG:ce

DUP 1121684

DU 056126