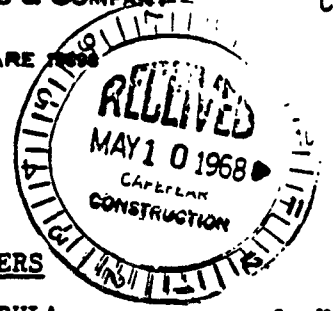
E. I. DU PONT DE NEMOURS & COMPANY

WILMINGTON, DELAWARE

ENGINEERING DEPARTMENT



CC: Adrian Linch-Orchem-Chambers
B. B. Lewis
H. D. Boyce
J. C. Lang
R. K. Mason
W. C. Weaver
Site Safety Supervisor

May 3, 1968

FIELD PROJECT MANAGERS

F. C. BAYLIS, ASHTABULA
W. S. BRIGGS, BEAUMONT
J. J. BELL, BREVARD
A. D. DAY, CAPE FEAR
C. S. ANDERSON, CHAMBERS WORKS
W. S. FREE, CHATTANOOGA
H. S. STANTON, CIRCLEVILLE
K. G. CAUGHMAN, HOUSTON
R. H. DAVIS, KINSTON
R. G. STERNBERGER, LOUISVILLE
J. K. ADDISON, MARTINSVILLE
W. A. SAMANS, MAY
A. S. TRUMPORE, MEMPHIS
H. F. REDMILE, OLD HICKORY
H. J. FEINEN, SAVANNAH RIVER
E. K. DRAWDY, SEAFORD
S. V. HINSON, VICTORIA
R. L. SPITZ, WASHINGTON WORKS
S. KREWATCH, WAYNESBORO
G. E. BARLOW, JR., WILM. AREA

DUST CONTROL - ENVIRONMENTAL AIR MONITORING

With reference to the writer's memorandum dated April 5, 1968, entitled Safety - Dust Control, please be advised that a training session will be conducted for the purpose of instructing Safety Engineers who are assigned the responsibility of collecting air samples.

The meeting will be held May 21, 1968, 8:00 A.M.,at Howard Johnson's Motor Lodge, Route #896, Newark, Delaware. The attached list of personnel will be expected to be in attendance. Reservations have been made at Howard Johnson's Motor Lodge for the evening of May 20.

Participants may make return travel arrangements any time after 1:00 P.M. May 21, 1968.

The training session is being conducted to instruct those responsible for applying the instrument and collecting the necessary technical data on how to administer the air monitoring program. Instruments will be assigned to each project representative in attendance.

Your usual cooperation is appreciated and if there are any further questions, please contact the writer.

CONSTRUCTION DIVISION

K E Kemper

K. E. Kemper
Division Safety Superintendent

KEK/dlm
Attachment

PLAINTIFF'S
EXHIBIT
DUP-1741

E. I. DU PONT DE NEMOURS & COMPANY

WILMINGTON, DELAWARE 19898

ENGINEERING DEPARTMENT

2077 LFM

May 2, 1968

The following procedure was issued on April 5, 1968, to Du Pont's Field Project Managers at its various Construction sites.

SAFETY - DUST CONTROL

In order to assure atmospheric conditions in insulation fabrication shops which will not contribute to the employees' health problems when working with asbestos fiber-containing materials, the Construction Division is initiating the following permanent air quality control program to be effective June 1, 1968.

Air Monitoring

Environmental air monitoring shall be conducted to provide quantitative data for site evaluation of dust control efficiency and assure conformance with established Threshold Limit Values (TLV).

1. The Threshold Limit Value for total dust count shall be 500,000 particles per cubic ft. of air.

2. Personnel monitoring will be conducted in the insulation shops on site locations. One employee will be requested to wear the air sampler one eight-hour day each month.

3. Trained site safety personnel shall be responsible for the control, operation and adjustment of the air sampling instrument, recording required technical data associated with the air sample, mailing of air sample to laboratory for analysis and compiling records of analysis reports.

4. When soliciting participation in the air monitoring program, craft supervision and Safety Engineer should anticipate who will be involved in work which will produce the greatest dust exposure for what day of that month.

DUP 1130907

DU 057279

Air Monitoring (Continued):

5. The personnel air sampling instrument used shall be a Universal Industrial Equipment Co., Millipore filter Model 440B (qualified for explosion hazard areas) air sampler. The filter used shall be an .8 micron pore size, Millipore Cat. No. MAWG 037 A0, Type AA, in plastic holder. This equipment will be assigned to the sites where air monitoring is required by the Division Safety Office.

6. The filter in plastic holder, upon completion of air sampling, shall be mailed by the site Safety Engineer to Morton Corn, Ph.D., Graduate School of Public Health, University of Pittsburgh, Pittsburgh, Pennsylvania 15213, attention Felix Stein. A phase microscopy analysis of submitted sample will be made and a report submitted to the site and the Division Safety Office indicating: (a) fibers below 5 micron length, (b) fibers above 5 micron length, and (c) total number of particles. Reports indicating total particle count to be approaching or above the TLV will require determining cause of condition and taking corrective action to reduce particle count. After improvement has been applied, a second eight-hour sample shall be conducted, analyzed and documented.

Atmospheric Dust Control

The application of the following recommendations should demonstrate conformance with the established dust TLV and provide effective dust emission control.

1. Materials containing Crocidolite asbestos fiber shall not be purchased or accepted for use. Materials containing Chrysotile and Amosite asbestos fibers are acceptable for use.

2. The pressure spray application of materials with any per cent of asbestos fiber content shall be eliminated.

3. All power tool and equipment operations shall be isolated from other shop facilities and fabricating operations.

Atmospheric Dust Control (continued):

4. All power shop equipment shall, when operated, have installed exhaust ventilation of sufficient capacity to remove dust particles at point of origin. Exhausted dust particles shall be collected by an effective collector system which will not allow vent-off of dust particles to the atmosphere.

5. Present controlled shop cleanliness programs shall be expanded. A vacuum cleaner should be used in lieu of broom sweeping to remove dust particles from shop equipment work tables, ledges, floors, etc.

6. A controlled materials handling program should be adopted to eliminate the emission of dust; for example, when opening and removing materials from shipping cartons or in the handling and mixing of asbestos cements.

Respiratory Protection

Severe or isolated conditions may require that respiratory protective devices be used. Consideration should be made for adequate protection of people in adjacent areas to the work location producing this condition. A supplied air respirator or a filter respirator manufactured by Mine Safety Appliance Co., Pittsburgh, Pa., Model Dustfoe 77 with filter number BM 21 B-9 should be used.

Your usual cooperation is anticipated in administering these dust controls.

CONSTRUCTION DIVISION

/S/ K. E. Keuper
Division Safety Superintendent

DUST SAMPLING PROGRAM

I. Air Analysis

1. Work environment evaluation - Consider not only insulation installation exposure but also dismantling work, grinding metals and cutting other materials, welding, etc.

2. Insulation exposure to be applied first week of each month. If results indicate improvement required after correction is made, a second proof sample must be made within that specific month.

3. Selection of participant employee - Safety Engineer with the Craft Superintendent and Craft Foreman will select the participant. This should be based on that individual employee's work assignment(s) for the day of sampling. It is expected that the employee subjected to the most severe exposure in producing dust from the varied work assignments will be selected.

4. Introduction to employee wearing the instrument making air sample - Example of approach: "For your protection, we are interested in continuing to control the amount of dust in the air. We are requesting your participation by wearing this dust measuring instrument while you are working today. It will not interfere with your movements, and there are no adjustments that you will have to make."

5. Special dust problems - prior to collecting sample, contact Division Safety Office. This is to assure that analysis can be made on sample submitted. (We are limited to 30 samples a month.)

II. Use of Instrument

1. Instrument is assigned to you (Safety Engineer trained and qualified in operation of instrument) and you are held responsible for condition of instrument, application of instrument, recording technical data, mailing sample, and compiling results at site location.

2. Preventive maintenance and/or re-calibration will be performed by Adrian Linch, Medical Section, Chambers Works. Frequency for re-calibration will be determined by Mr. Linch.

3. Work Sheet - This is made out in triplicate (3 copies). One carbon is to be retained at site and original and one carbon copy are to be submitted with sample plastic holder to Mr. Stein, University of Pittsburgh.

(OVER)

Check pump flow, instrument performance, work activity, material exposure and record pump flow rate (re-adjust if necessary to required flow), time checked and sign. This is to be performed at a minimum of every two hours.

III. Handling of Sample

1. Seal filter plastic container, insert plastic container along with two copies of work sheet in mailing tube and mail to:

Morton Corn, Ph.D.
Attention: Felix Stein
Graduate School of Public Health
Dept. of Occupational Health
University of Pittsburgh
Pittsburgh, Pa. 15213

May 17, 1968
K. E. Keuper