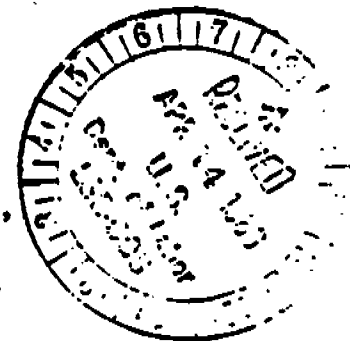


Pittsburgh Corning Corporation  
One Gateway Center  
Pittsburgh, Pennsylvania 15222  
BYRL STOUT  
Vice President of Manufacturing

April 11, 1969

Mr. Wendell R. Blair, Regional Director  
U. S. Department of Labor  
Bureau of Labor Standards  
Office of Occupational Safety  
Room 601  
411 North Akard Street  
Dallas, Texas 75201

Subject: Letter of 4/8/69 to Mr. J. H. Bierer, President,  
Pittsburgh Corning Corporation.  
Re: Survey Plant - Tyler, Texas - 2/13/69



Dear Mr. Blair:

The following action is being taken to correct the unsatisfactory conditions noted in the report dated February 13, 1969.

1. Code Standard - Ref. 50-204.264

All supervisory employees were enrolled in a first aid course given by the American Red Cross with the first session given 4-10-69. The course is to consist of three sessions and by 5-26-69 there will be fully qualified personnel on all shifts.

2. Code Standard - Ref. 50-204.275

Pittsburgh Corning Corporation uses the services of Lee B. Grant, M.D., Medical Director, PPG Industries, and his staff, to monitor its production facilities for compliance with A.C.G.I.H. threshold limits for dust concentrations. (See attachments II and III). In addition, the Industrial Hygiene Foundation conducts periodic dust measurements to ascertain the dust concentrations present. (See attachment I).

For those areas in which dust concentrations exceed the threshold limits, it is required, as a condition of employment, that each employee wear a Dust Foe #55 Respirator #CM-73020 approved by the U. S. Bureau of Mines.

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P I T T S B U R G H **DC** C O R N I N G

April 11, 1948

2. Code Standard (continued)

In reference to the sentence of your report where you state, "It is believed that the present system is below the required capacity", the dust measurements do not support this belief. Pittsburgh Corning Corporation retains the services of Dr. Morton Corn, a consulting engineer and authority in the field of industrial hygiene and air pollution. Dr. Corn approves all new installations as well as any modifications of our dust collecting systems.

If you should need any additional information or there is need for additional surveys, please advise.

Yours very truly,

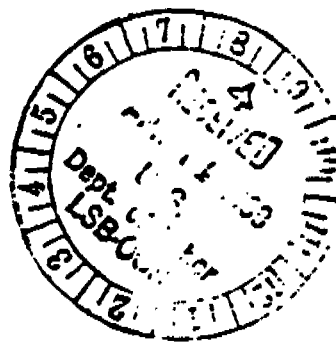
PITTSBURGH CORNING CORPORATION



Byrl M. Stout  
Vice President of Manufacturing

Attns.  
BMS/rh

cc: Mr. James H. Bierer  
Dr. L. B. Grant  
Mr. H. Clark Underwood  
Mr. C. E. van Horne



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Table 4 -- The Per Cent of the Total Number of Asbestos Fibers Occurring in Various Ranges of Length

| Sample No.           | Date 1963 | Time of Day         | Description and Location of Sample                                                               | mppcf Asbestos Fibers | Lengths of Fibers in Microns |      |      |      |      |      |      |    |
|----------------------|-----------|---------------------|--------------------------------------------------------------------------------------------------|-----------------------|------------------------------|------|------|------|------|------|------|----|
|                      |           |                     |                                                                                                  |                       | <100                         | <50  | <40  | <30  | <20  | <10  | <5   | <1 |
| <b>Process Areas</b> |           |                     |                                                                                                  |                       |                              |      |      |      |      |      |      |    |
| 14                   | 8/6       | 3:40 pm - 3:50 pm   | Breathing zone at the scrap crusher while scrap was being crushed.                               | 4.2                   | 100                          | 94.2 | 94.2 | 95.1 | 74.6 | 55.1 | 21.3 | 0  |
| 20                   | 8/7       | 12:00 N - 12:04 pm  | Breathing zone at the scrap crusher while scrap was being crushed.                               | 1.0                   | 100                          | 98.2 | 96.4 | 94.6 | 81.9 | 51.9 | 11.1 | 0  |
| 9                    | 8/6       | 1:15 pm - 1:45 pm   | Breathing zone in the scrap and asbestos feed area.                                              | 0.6                   | 97.7                         | 90.3 | 87.1 | 77.5 | 65.7 | 44.8 | 18.4 | 0  |
| 17                   | 8/7       | 10:38 am - 10:55 am | Breathing zone in the scrap and asbestos feed area.                                              | 0.3                   | 100                          | 97.3 | 97.3 | 97.3 | 94.6 | 75.5 | 31.0 | 0  |
| 16                   | 8/7       | 10:15 am - 10:35 am | Breathing zone in the building and take-off area.                                                | 0.2                   | 94.1                         | 88.9 | 86.4 | 83.9 | 74.6 | 53.4 | 17.0 | 0  |
| <b>Sawing Area</b>   |           |                     |                                                                                                  |                       |                              |      |      |      |      |      |      |    |
| 2                    | 8/6       | 8:54 am - 9:02 am   | Breathing zone at the large slitting saw while pieces 1 1/2" thick were being cut.               | 0.8                   | 96.9                         | 89.4 | 83.8 | 70.1 | 60.1 | 40.8 | 4.1  | 0  |
| 3                    | 8/6       | 9:18 am -           | Breathing zone at the large edging saw while pieces 1 1/2" thick were being cut.                 | 0.5                   | 100                          | 92.5 | 90.5 | 85.5 | 78.1 | 43.3 | 6.4  | 0  |
| 4                    | 8/6       | 9:57 am - 10:07 am  | Breathing zone at the feed end of the large edging saw while pieces 1 1/2" thick were being cut. | 1.7                   | 98.5                         | 92.5 | 89.5 | 79.5 | 69.5 | 27.0 | 4.0  | 0  |
| 6                    | 8/6       | 11:37 am - 11:52 am | Breathing zone at the large edging saw while heavy walled pieces were being cut.                 | 1.2                   | 98.0                         | 94.0 | 91.5 | 89.0 | 84.5 | 60.9 | 19.2 | 0  |
| 8                    | 8/6       | 12:00 N -           | Breathing zone at the large slitting saw while heavy walled pieces were being cut.               | 1.8                   | 99.5                         | 99.5 | 98.0 | 96.0 | 89.7 | 79.5 | 39.2 | 0  |
| 9                    | 8/6       | 10:10 am - 10:20 am | Breathing zone at the block saw.                                                                 | 2.1                   | 99.0                         | 94.5 | 89.1 | 80.7 | 73.8 | 43.7 | 4.1  | 0  |
| 11                   | 8/7       | 2:18 pm - 2:30 pm   | Breathing zone at the wheel cutters while blocks were being cut.                                 | 3.3                   | 99.0                         | 98.0 | 97.5 | 97.5 | 94.0 | 77.8 | 25.3 | 0  |

(Table continued)

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Table 2 -- (Continued)

| Sample No.                     | Date 1963 | Time of Day         | Description and Location of Sample                                                                   | mppcf Asbestos Fibers | Lengths of Fibers in Microns |      |      |      |      |      |      |    |  |
|--------------------------------|-----------|---------------------|------------------------------------------------------------------------------------------------------|-----------------------|------------------------------|------|------|------|------|------|------|----|--|
|                                |           |                     |                                                                                                      |                       | <100                         | <50  | <40  | <30  | <20  | <10  | <5   | <0 |  |
| <u>Sawing Area (continued)</u> |           |                     |                                                                                                      |                       |                              |      |      |      |      |      |      |    |  |
| 12                             | 8/6       | 2:32 pm - 2:45 pm   | Breathing zone at the wheel cutters while blocks were being cut.                                     | 1.4                   | 100                          | 96.6 | 96.6 | 96.1 | 91.8 | 78.0 | 40.8 | 0  |  |
| 13                             | 8/6       | 3:15 pm - 3:20 pm   | Breathing zone while cleaning the 3-unit dust collector in the saw area (down-stream of dust cloud). | 29.6                  | 100                          | 99.0 | 98.0 | 96.1 | 89.9 | 76.0 | 29.2 | 0  |  |
| 19                             | 8/7       | 11:40 am - 12:04 pm | General air near the 3-unit dust collector in the saw area                                           | 0.7                   | 100                          | 96.1 | 92.2 | 89.0 | 71.5 | 39.7 | 10.5 | 0  |  |
| <u>Miscellaneous</u>           |           |                     |                                                                                                      |                       |                              |      |      |      |      |      |      |    |  |
| 15                             | 8/7       | 10:05 am - 10:55 am | General air in the asbestos storage area.                                                            | 0.3                   | 99.2                         | 90.9 | 85.3 | 76.2 | 67.9 | 41.5 | 8.5  | 0  |  |
| 18                             | 8/7       | 11:10 am - 11:55 am | General air in center of the product storage area.                                                   | 0.1                   | Too Few Fibers               |      |      |      |      |      |      |    |  |

*Respirators Mandatory!*

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| Substance                            | Mg. per<br>Cu.M. | Substance                                                    | Mg. per<br>Cu.M. |
|--------------------------------------|------------------|--------------------------------------------------------------|------------------|
| Trichloronaphthalene - skin          | 5                | Warfarin (3-( $\alpha$ -acetylbenzyl)-<br>4-hydroxycoumarin) | 0.5              |
| Trinitrotoluene - skin               | 1.5              | Yttrium                                                      | 5                |
| Uranium                              |                  | Zinc oxide (fume)                                            | 15               |
| (soluble compounds)                  | 0.05             | Zirconium compounds (as Zr)                                  | 5                |
| (insoluble compounds)                | 0.25             |                                                              |                  |
| Vanadium                             |                  |                                                              |                  |
| (V <sub>2</sub> O <sub>5</sub> dust) | 0.5              |                                                              |                  |
| (V <sub>2</sub> O <sub>5</sub> fume) | 0.1              |                                                              |                  |

Radioactivity: For permissible concentrations of radionuclides in air, see U. S. Department of Commerce, National Bureau of Standards, Handbook 69, "Maximum Permissible Body Burdens and Maximum Permissible Concentrations of Radionuclides in Air and in Water for Occupational Exposure", June 5, 1959. Also, see U. S. Department of Commerce, National Bureau of Standards, Handbook 59, "Permissible Dose from External Sources of Ionizing Radiation", September 24, 1954, and addendum of April 15, 1958.

#### Mineral and Non-Metallic Inorganic Dusts

| Substance                     | MPPCF | Substance         | MPPCF |
|-------------------------------|-------|-------------------|-------|
| Silica                        |       | Miscellaneous:    |       |
| Quartz                        |       | Aluminum Oxide    | 50    |
| high (above 50% free silica)  | 5     | Calcite           | 50    |
| medium (5 to 50% free silica) | 20    | Dolomite          | 50    |
| low (below 5% free silica)    | 50    | Limestone         | 50    |
| Cristobalite (above 5%)       | 5     | Marble            | 50    |
| Amorphous                     | 20    | Silicon Carbide   | 50    |
| Silicates                     |       | Other Inert Dusts | 50    |
| Asbestos                      | 5     |                   |       |
| Mica                          |       |                   |       |
| Portland Cement               | 20    |                   |       |
| Soapstone                     |       |                   |       |
| Talc                          |       |                   |       |

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#### Tentative Values

| Substance                                                                                                                       | PPM | Approx. Mg.<br>per Cu.M. | Substance                                                   | PPM   | Approx. Mg.<br>per Cu. M. |
|---------------------------------------------------------------------------------------------------------------------------------|-----|--------------------------|-------------------------------------------------------------|-------|---------------------------|
| Acetonitrile                                                                                                                    | 40  | 70                       | sec-Hexyl acetate                                           | 100   | 590                       |
| Allyl glycidyl ether (AGE)                                                                                                      | 10  | 45                       | Isopropyl glycidyl ether (IGE)                              | 50    | 240                       |
| Boron oxide                                                                                                                     |     | 15                       | Ketene                                                      | 0.5   | 0.9                       |
| tert. Butyl chromate (as CrO <sub>3</sub> )                                                                                     |     | 0.1                      | Methyl mercaptan                                            | 50    | 100                       |
| n-Butyl glycidyl ether (BGE)                                                                                                    | 50  | 270                      | 1-Nitropropane                                              | 25    | 90                        |
| Butyl mercaptan                                                                                                                 | 10  | 35                       | Pentaborane                                                 | 0.005 | 0.01                      |
| Chloroacetaldehyde                                                                                                              | 1   | 3                        | Perchloromethyl mercaptan                                   | 0.1   | 0.8                       |
| Chlor bromomethane                                                                                                              | 200 | 1050                     | Phenyl glycidyl ether (PGE)                                 | 50    | 310                       |
| DDVP (O, O-Dimethyl-2, 2-Dichlorodivinyl phosphate)                                                                             |     | 1                        | Phosdrin (2-carbomethoxy-1-methyl vinyl dimethyl phosphate) |       | 0.1                       |
| Diglycidyl ether (DGE)                                                                                                          | 10  | 55                       | n-Propyl nitrate                                            | 25    | 110                       |
| Dimethyl acetamide                                                                                                              | 10  | 35                       | Systox                                                      |       | 0.2                       |
| Endrin (1, 2, 3, 4, 10, 10-hexachloro-6, 7-epoxy-1, 4, 4a, 5, 6, 7, 8, 8a-dcta hydro-1, 4-endo, endo-5, 8-dimethanonaphthalene) |     | 0.25                     | 2, 4, 5T (2, 4, 5-trichlorophenoxyacetic acid)              |       | 10                        |
| Ethanol amine                                                                                                                   | 0.5 | 1                        | Teflon decomposition products (as F)                        |       | 0.05                      |
| Ethyl mercaptan                                                                                                                 | 250 | 640                      | 1, 2, 3-Trichloropropane                                    | 50    | 300                       |
| Glycidol                                                                                                                        | 50  | 150                      | 1, 1, 2-Trichloro-1, 2, 2-trifluoroethane                   | 1000  | 7600                      |
| Heptachlor (1, 4, 5, 6, 7, 8, 8-heptachloro-3a, 4, 7, 7a-tetrahydro-4, 7-methanoindene)                                         |     | 0.25                     | Triorthocresyl phosphate                                    |       | 0.1                       |
|                                                                                                                                 |     |                          | Triphenyl phosphate                                         |       |                           |

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