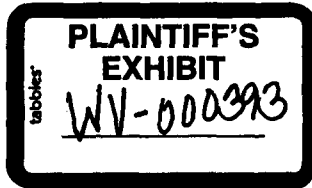
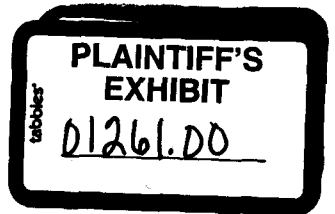


FILE COPY

PITTSBURGH CORNING CORPORATION



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. Biser, 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.C.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 #C4-73020 approved by the U. S. Bureau of Mines.

April 11, 1969

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

Attchs.
BMS/rh

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

Gases and Vapors (cont.)

Substance	PPM	Approx. Mg. per Cu. M.	Substance	PPM	Approx. Mg. per Cu. M.
Propylene imine - skin	25	60	Tetrahydrofuran	200	590
Propylene oxide	100	240	Tetranitromethane	1	8
Pyridine	5	15	Toluene (toluol)	200	750
Quinone	0.1	0.4	o-Toluidine - skin	5	22
Stibine	0.1	0.5	Tolylene-2,4-diisocyanate	0.02*	0.14*
Stoddard solvent	500	2900	Trichloroethylene	100	520
Styrene monomer (phenylethylene)	100	420	Triethylamine	25	100
Sulfur dioxide	5	13	Trifluoromonobromomethane	1000	6100
Sulfur hexafluoride	1000	6000	Turpentine	100	560
Sulfur monochloride	1	6	Vinyl chloride (chloroethylene)	500	1300
Sulfur pentafluoride	0.025	0.25	Vinyl toluene	100	480
1,1,2,2-Tetrachloro- ethane - skin	5	35	Xylene (xylol)	200	870
			Xylidine - skin	5	25

* Probably sufficiently low to protect against primary sensitization, but may not protect persons specifically sensitized.

Dusts, Fumes and Mists

Substance	Mg. per Cu. M.	Substance	Mg. per Cu. M.
Aldrin (1,2,3,4,10,10-hexachloro-1,4, 4a,5,8,8a-hexahydro-1,4,5,8-di- methanonaphthalene) - skin	0.25	Lindane (hexachlorocyclohexane, gamma isomer)	0.5
Ammate (ammonium sulfamate)	15	Lithium hydride	0.025
Antimony	0.5	Magnesium oxide fume	15
ANTU (alpha-naphthyl-thiourea)	0.3	Malathion (O,O-dimethyl dithiophosphate of diethyl mercaptosuccinate) - skin	15
Arsenic	0.5	Manganese	5
Barium (soluble compounds)	0.5	Mercury	0.1
Beryllium	0.002	Mercury (organic compounds) - skin	0.01
Cadmium oxide fume	0.1	Methoxychlor (2,2-di-p-methoxyphenyl-1, 1,1-trichloroethane)	15
Calcium arsenate	0.1	Molybdenum (soluble compounds)	5
Chlordane (1,2,4,5,6,7,8,8-octa- chloro-3a,4,7,7a-tetra-hydro-4, 7-methanoindane)	2	(insoluble compounds)	15
Chlorinated camphene, 60%	0.5	Nicotine - skin	0.5
Chlorinated diphenyl oxide	0.5	Parathion (O,O-diethyl-O-p-nitrophenyl thiophosphate) - skin	0.1
Chlorodiphenyl (42% chlorine) - skin	1	Pentachloronaphthalene - skin	0.5
Chlorodiphenyl (54% chlorine) - skin	0.5	Pentachlorophenol - skin	0.5
Chromic acid and chromates (as CrO ₃)	0.1	Phosphoric acid	1
Crag herbicide (sodium 2-(2,4-dichloro- phenoxy) ethanol hydrogen sulfate)	15	Phosphorus (yellow)	0.1
Cyanide (as CN) - skin	5	Phosphorus pentachloride	1
2,4-D (2,4-dichlorophenoxyacetic acid)	10	Phosphorus pentasulfide	1
DDT (2,2-bis (p-chlorophenyl)-1,1,1- trichloroethane)	1	Picric acid - skin	0.1
Dieldrin (1,2,3,4,10,10-hexachloro-6, 7-epoxy-1,4,4a,5,6,7,8,8a-octahydro- 1,4,5,8-dimethanonaphthalene) - skin	0.25	Pyrethrum	2
Dinitrobenzene - skin	1	Rotenone	5
Dinitrotoluene - skin	1.5	Selenium compounds (as Se)	0.1
Dinitro-o-cresol - skin	0.2	Sodium fluoroacetate (1080) - skin	0.1
EPN (O-ethyl O-p-nitrophenyl thiono- benzenephosphonate) - skin	0.5	Sodium hydroxide	2
Ferbam (ferric dimethyl dithiocarbamate)	15	Strychnine	0.15
Ferrovanadium dust	1	Sulfuric acid	1
Fluoride	2.5	TEDP (tetraethyl dithionopyro- phosphate) - skin	0.2
Hydroquinone	2	TEPP (tetraethyl pyrophosphate) - skin	0.05
Iron oxide fume	15	Tellurium	0.1
Lead	0.2	Tetryl (2,4,6-trinitrophenylmethyl- nitramine) - skin	1.5
Lead arsenate	0.15	Thallium (soluble compounds)	0.1
		Thiram (tetramethyl thiuram disulfide)	5
		Titanium dioxide	15

Trichloronaphthalene - skin	5	Warfarin (3-(α -acetylbenzyl)-	
Trinitrotoluene - skin	1.5	4-hydroxycoumarin)	0.5
Uranium		Yttrium	5
(soluble compounds)	0.05	Zinc oxide fume	15
(insoluble compounds)	0.25	Zirconium compounds (as Zr)	5
Vanadium			
(V ₂ O ₅ dust)	0.5		
(V ₂ O ₅ 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			
Quartz		Miscellaneous:	
high (above 50% free silica)	5	Aluminum Oxide	50
medium (5 to 50% free silica)	20	Calcite	50
low (below 5% free silica)	50	Dolomite	50
Cristobalite (above 5%)	5	Limestone	50
Amorphous	20	Marble	50
Silicates		Silicon Carbide	50
Asbestos	5	Other Inert Dusts	50
Mica	20		
Portland Cement	50		
Soapstone	20		
Talc	20		

Tentative Values

Substance	PPM	Approx. Mg. per Cu. M.	Substance	PPM	Approx. Mg. 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 ₃)		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
Chlorobromomethane	200	1050	Phenyl glycidyl ether (PGE)	50	310
DDVP (O, O-Dimethyl-2, 2-			Phosdrin (2-carbomethoxy-1-		
Dichlorodivinyl phosphate)		1	methyl vinyl dimethyl phos-		
Diglycidyl ether (DGE)	10	55	phate)		0.1
Dimethyl acetamide	10	35	n-Propyl nitrate	25	110
Endrin (1, 2, 3, 4, 10, 10-hexa-			Systox		0.2
chloro-6, 7-epoxy-1, 4, 4a,			2, 4, 5T (2, 4, 5-trichloro-		
5, 6, 7, 8, 8a-octa hydro-1,			phenoxy acetic acid)		10
4-endo, endo-5, 8-dimeth-			Teflon decomposition		
anonaphthalene)		0.25	products (as F)		0.05
Ethanol amine	0.5	1	1, 2, 3-Trichloropropane	50	300
Ethyl mercaptan	250	640	1, 1, 2-Trichloro-1, 2, 2-tri-		
Glycidol	50	150	fluoroethane	1000	7600
Heptachlor (1, 4, 5, 6, 7, 8-hep-			Triorthocresyl phosphate		0.1
tachloro-3a, 4, 7, 7a-tetrahydro-			Triphenyl phosphate		3
4, 7-methanoindene)		0.25			

(Signed): William L. Ball Herbert E. Stokinger Hervey B. Elkins William F. Reindollar
W. Clark Cooper Keith H. Jacobson Russel G. Scovill Allan L. Coleman, Chairman

Table 2 -- 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		
Process Areas														
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	85.1	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		
Sawing Area														
2	8/6	8:54 am - 9:02 am	Breathing zone at the large edging 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 edging 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		
5	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	8/6	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)

Table 2 -- (Continued)

Sample No.	Date	Time of Day	Description and Location of Sample	mpcf 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 (downstream 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					