



INTERNAL CORRESPONDENCE



CHEMICALS AND PLASTICS

INSTITUTE PLANT P. O. BOX 2831, CHARLESTON, WEST VIRGINIA 25330

To (Name) Mr. R. J. DuBrul
Division
Location Building 2

Date 1 August 1973

Originating Dept. Medical Department - Plant 512

Answering letter date

Copy to

Mr. A. F. Booth
Mr. G. D. Brown
Mr. T. L. Collins
C. U. Dernehl, M.D.
Mr. P. E. Drake
Mr. D. L. Garrison
Mr. R. H. Johns
Mr. G. R. Kraft
Mr. H. C. McGinnis
Mr. R. E. Peele
Mr. B. G. Perry
Mr. B. D. Tissue
J. J. Welsh, M.D.

Subject Asbestosis

Enclosed is a report describing a Medical Department survey conducted on employees of the Plant Maintenance and Utilities Departments.

Very truly yours,

R. J. Sexton, M.D.
Plant Medical Director

RJS:gh

Enc.

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MEDICAL DEPARTMENT

Mr. F. H. Larrison

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August 7, 1973

LOCATION	TYPE OF SAMPLE	TIME OF DAY	FIBERS-5MICRONS and LONGER/ml of AIR	WEIGHTED EXPOSURE BASED ON SAMPLING PERIOD
Bagger Area -				
General	GA	9:25-10:30A	0.81	0.90
" "	GA	10:30-11:47A	1.01	
" "	GA	1:14- 2:14P	0.42	
" "	GA	2:14- 3:05P	1.29	
" "	GA	3:05- 4:07P	0.99	
Shifter's Office-				
General	GA	10:35-11:45A	0.40	0.42
" "	GA	11:45-12:55P	0.47	
" "	GA	12:55- 2:20P	0.41	
Sample Balcony-				
General	GA	2:10- 2:53P	0.69	0.74
" "	GA	2:53- 3:27P	0.81	
Wet Side-General	GA	9:20-10:00A	0.27	0.37
" "	GA	10:00-11:30A	0.64	
" "	GA	1:15- 2:15P	0.29	
Resin Grade Bagger	PA	9:00- 9:40A	0.85	1.11
" "	PA	9:40-10:20A	1.22	
" "	PA	10:20-11:00A	0.78	
" "	PA	11:00-11:40A	0.70	
" "	PA	1:10- 1:50P	0.65	
" "	PA	1:50- 2:30P	1.81	
" "	PA	2:30- 3:10P	1.37	
" "	PA	3:10- 3:50P	1.58	
South Fence Line-				
General	GA	1:30-2:55P	0.31	0.33
" "	GA	2:55-4:00P	0.35	

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Mr. F. H. Larrison

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August 7, 1973

LOCATION	TYPE OF SAMPLE	TIME OF DAY	FIBERS-5 MICRONS and LONGER/ml of AIR	WEIGHTED EXPOSURE BASED ON SAMPLING PERIOD
<u>Mine Site</u>				
Mine Area-				
General	PA	9:30-10:47A	0.58	} 0.55
" "	PA	10:47-11:30A	0.50	
" "	PA	11:30-12:00N	0.69	
Michigan Loader				
Operator	PA	9:50-10:40A	1.77	} 1.53
" "	PA	10:40-11:18A	1.14	
" "	PA	11:18-11:55A	1.62	
Caterpillar				
Operator	PA	10:00-10:55A	0.53	} 0.54
" "	PA	10:55-11:23A	0.49	
" "	PA	11:23-11:58A	0.58	

As you will note actual weighted exposures of personnel or potential exposures as might be expected, for example, in the shifters office were in all cases less than 5.0 fibers per milliliter of air. Nevertheless, in areas involving dry operations personnel wore appropriate respirators. I recommend that this practice be continued until enough information is available that shows we are well within the existed limit of 5.0 fibers/ml and the soon-to-come limit of 2.0 fibers/ml.

For one interval during the activity of the bagger-loader operator in the standard grade area, the concentration of fiber exceeded 10/ml which I believe is an action point in the OSHA regulation even though the weighted average is less than 5 fibers/ml. I believe, you will wish to check in to this.

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Mr. F. H. Larrison

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August 7, 1973

I don't know why this jump in concentration occurred.

The fiber concentrations outside the buildings did not appear to be significant during this visit as witness the results for the south fence line with a north to south wind. I have seen worse days.

MINE:

Fiber concentrations at the mine site were not high even though a brisk wind was blowing. It is interesting to note that the highest readings were obtained inside the closed cab of the Michigan loader rather than on the open seat of the Caterpillar bulldozer. On the latter, however, it was noted that there is a considerable exposure to diesel exhaust fumes. The quantity may not be excessive but it quickly shows on a filter paper sampler. All personnel at the mine site wore respirators, a practice which I believe should continue to be encouraged regardless of present findings.

Very truly yours,

P. W. McDaniel
Industrial Hygiene Engineer

PWM:jr

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