PLAINTIFF'S EXHIBIT
UC-958

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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
Subject Asbestosis

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.

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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RECE
AUG 6 1973
MEDICAL DEPARTMENT


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| 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 | |
| " " | GA | 10:30-11:47A | 1.01 | |
| " " | GA | 1:14- 2:14P | 0.42 | 0.90 |
| " " | 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 | |
| " " | GA | 11:45-12:55P | 0.47 | 0.42 |
| " " | 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 | |
| " " | GA | 10:00-11:30A | 0.64 | 0.37 |
| " " | GA | 1:15- 2:15P | 0.29 | |
| Resin Grade Bagger | PA | 9:00- 9:40A | 0.85 | |
| " " | PA | 9:40-10:20A | 1.22 | |
| " " | PA | 10:20-11:00A | 0.78 | |
| " " | PA | 11:00-11:40A | 0.70 | 1.11 |
| " " | 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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| LOCATION | TYPE OF SAMPLE | TIME OF DAY | FIBERS-5 MICRONS and LONGER/ml of AIR | WEIGHTED EXPOSURE BASED ON SAMPLING PERIOD |
|---|---|---|---|---|
| **Mine Site** | | | | |
| 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.

A08384

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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