



ENGINEERING DEPARTMENT

File in Asbestos Monitoring

5373 W. Alabama
Houston, Texas
September 29, 1978



Mr. Andy Sedlak, Safety Engineer
C. F. Breaun & Company
P. O. Box 798
Deer Park, Texas 77536

Re: Shell Owner Controlled Program
WC 68416

Dear Mr. Sedlak:

Here is the Industrial Hygiene Report that was recently requested to confirm the results of air sampling that was done on February 18, 1977. These results were given to you by telephone on February 19, 1977.

The samples were collected to determine the concentration of airborne asbestos fibers larger than 5 microns per cubic centimeter of air during the use of a portable electric circular saw to cut 3' X 12" X 3/8" sheets of Transite, a corrugated siding made of 69% Portland cement, 20% asbestos, and 11% limestone.

The Transite was cut to size by a Montgomery Elevator employee. The work was done adjacent to the elevator shaft in EPA-3 unit.

If you have any questions regarding the sampling procedures, the fiber counting, or the results, just let us know.

Respectfully submitted,

Charles Ham

Charles Ham
Regional Industrial Hygiene/
Health Engineer

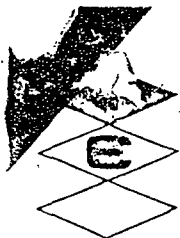
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cc: T. F. Hruska
Shell Oil Co.
Deer Park, Texas
cc: Mr. Richard B. Basham, Loss Control Consultant
Alexander & Alexander of Texas, Inc.
Houston, Texas

EMPLOYERS INSURANCE OF TEXAS TEXAS EMPLOYERS' INSURANCE ASSOCIATION EMPLOYERS CASUALTY COMPANY EMPLOYERS NATIONAL INSURANCE COMPANY

DPMC-05559

LAM 009088



ENGINEERING DEPARTMENT

C. F. Braun (Shell GCP)
Deer Park, Texas

Texas WC 68146
September 28, 1978

PURPOSE OF SURVEY

The survey was conducted at the request of Mr. Andy Sedlak, C. F. Braun Safety Engineer, on February 17, 1977, to aid in efforts to provide effective safety and health activities.

Samples were collected to measure the airborne concentrations of asbestos fibers, longer than 5 microns, per cubic centimeter of air, to which employees might be exposed.

SAMPLING & EVALUATION METHODS

Each sample was collected on a 37 millimeter Millipore Type AA filter mounted in an open-face filter holder. Each filter was contained in plastic holder and was supported on pads in the holder to aid in controlling the distribution of air as it passed through the filter.

A Mine Safety Appliances Permissible Portable Pump, Model G, was used to pull a measured quantity of air through the filter. The filter holder was mounted about four feet above ground level in an effort to obtain a representative sample of the airborne concentration of asbestos fibers in the area.

SAMPLING CONDITIONS

Sample #A-56 was collected at a point an average of six feet down wind from the saw as cuts were made in a sheet of transite. Wind velocity was approximately 4 miles per hour. The temperature was 65°F. The humidity was 70% and the barometric pressure was 30.5 inches of mercury. A thirty liter sample was collected at the rate of 2 liters per minute.

Sample # A-59 was collected at a point an average of three feet downwind from the point of operations. The weather conditions and sampling rate and volume were the same as for sample # A-56.

DISCUSSION OF RESULTS

The airborne concentrations of fibers, longer than 5 microns per cubic centimeter, in the samples collected were below the permissible exposure to an eight hour time-weighted average concentration and the ceiling concentration as established by the Occupational Safety and Health, 29 CFR 1910.1001.

A tabulation of the results is part of the report.

DPMC-05560

LAM 009089



ENGINEERING DEPARTMENT

C. F. Braun (Shell OCP)
Deer Park, Texas

Texas WC 68416
September 20, 1978

The comments and discussions in this report are intended to be helpful and of assistance to management in its efforts to provide an adequate safety and health program. The discussions, and any recommendations which might develop from the discussions, are based on materials and sources considered reliable and lead to practical approaches in providing solutions to specific health and safety hazards. The approaches should not be used when an ordinance, law, code, or rule of any local, state, or federal jurisdiction specifies a different solution, nor are any recommendations presented to be interpreted as insurance requirements.

Charles Ham

Charles Ham, PE
Regional Industrial
Hygiene/Health Engineer

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DPMC-05561

LAM 009090


E**ENGINEERING DEPARTMENT**

C. F. Braun (Shell OCP)
Deer Park, Texas

Texas WC 68416
September 28, 1978

SAMPLE RESULTS

<u>Sample No. & Location</u>	<u>Asbestos Concentration Fibers > 5μ/cc*</u>	<u>Threshold Limit/Value Fibers > 5μ/cc</u>
# A-56 Sample Collected 6' from the sawing operation	0.001	2.0
# A-59 Sample Collected 3' from the sawing operation in the middle of a cut	0.006	2.0

* Fibers > 5 μ /cc - Fibers longer than 5 microns per cubic centimeters of air.

Threshold Limit Value

** The 8-hour time-weighted average airborne concentration of asbestos fibers to which any employee may be exposed shall not exceed two fibers, longer than 5 micrometers, per cubic centimeter of air.

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DPMC-05562

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