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Houston, Texas  
July 6, 1982

PLAINTIFF'S EXHIBIT  
TEX-93

SAF STUDIES, SURVEYS & REPORTS  
Texaco USA  
Eagle Point Plant  
Area Asbestos Sampling

Mr. R. J. Fischbach  
Westville, New Jersey

Please find attached a report of industrial hygiene sampling for asbestos fibers conducted at the Polymerization Unit and the Powerhouse, April 16-22, 1982, by Mr. J. E. Schlicht. No exposures exceeded current regulatory or recommended standards. Recommendations concerning bagging of loose insulation and sealing exposed or broken insulation are discussed herein.

Please contact Mr. A. D. Gillie of this office if you have any questions concerning this report.

Signed: O. W. RIGDON

O. W. RIGDON

ADG/JES  
blh:z/a

Attachments

FJB

| TEXACO U. S. A. HOUSTON  |   |      |   |
|--------------------------|---|------|---|
| ENVIRONMENTAL AND HEALTH |   |      |   |
| JUL 07 '82               |   |      |   |
| FJB                      | ✓ | CHM  |   |
| RGM                      |   | FCH  |   |
| ERK                      |   | DWM  |   |
| CWD                      |   | CFH  |   |
| MLM                      |   | DJS  | ✓ |
| JFY                      |   | SECY |   |
| JMG                      |   |      |   |

WA-TEX 006315

WA-TEX006315

INDUSTRIAL HYGIENE  
POLYMERIZATION UNIT AND POWERHOUSE  
AREA ASBESTOS SAMPLING

EAGLE POINT PLANT

APRIL 16-22, 1982

Report by: A. D. Gillie  
Associate Industrial Hygienist  
RESO

J. E. Schlicht  
Industrial Hygiene Technician  
Texaco USA

Survey by: J. E. Schlicht  
Industrial Hygiene Technician  
Texaco USA

R. A. Novak  
Safety Inspector  
Texaco USA

I. SUMMARY

Area sampling was performed to characterize airborne asbestos fiber concentrations at the polymerization unit and the powerhouse. The locations were selected for sampling based upon the deteriorated condition of insulation in these areas. The monitoring results show that no airborne levels exceeded current regulatory or recommended standards. Recommendations are discussed herein.

II. RESULTS AND DISCUSSION

Area monitoring for asbestos fibers was conducted downwind of broken or exposed insulation in the polymerization unit and the powerhouse to determine areas of potential asbestos exposure. The results are listed in the attached Table I. The eight-hour time weighted average (TWA) determinations were performed using calibrated Bendix Super Sampler Pumps and mixed cellulose ester filter cassettes. Subsequent analysis

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was performed by NATLSCO's Environmental Sciences Laboratory, which is an accredited analytical facility.

Seven of the eight determinations for airborne asbestos showed concentrations less than or equal to 0.01 fibers per cubic centimeter (f/cc). The eighth determination, collected at a stairway landing, showed an airborne asbestos concentration of 0.17 f/cc which may be due to the loose insulation and gusting winds in the vicinity of the collection device. The OSHA eight-hour TWA permissible exposure limit for airborne asbestos is 2 fibers per cubic centimeter (f/cc). Employees spend very little time in those areas; therefore, it appears that there is little potential for exposure. However, if loose insulation on piping or on the ground is disturbed and thereby dispersed into the atmosphere, employees' potential asbestos exposure may increase.

### III. RECOMMENDATIONS

- 1) Although the above sampling determinations do not indicate potential asbestos fiber exposures to employees, the loose asbestos insulation may become airborne if disturbed. Therefore, loose or broken insulation should be sealed with cement and/or metal jacketing, and insulation that has fallen to the ground should be removed to prevent employee asbestos exposure. A vacuum can be employed to clean areas in order to prevent dispersion of asbestos fibers, and the debris should be placed in plastic bags displaying the appropriate warning labels. Employees performing the sealing or cleanup operations should wear appropriate personal protective equipment, such as the 3-M 8710 disposable respirator, and coveralls to prevent asbestos exposure. Furthermore, insulation should be wetted before removal to reduce the generation of loose fibers.
- 2) Enclosed are extra copies of the monitoring results that may be posted in the polymerization unit and powerhouse to notify employees of airborne asbestos concentrations.

SAF - STUDIES, SURVEY AND REPORTS  
TEXACO USA  
EAGLE POINT PLANT  
ASBESTOS

TABLE I  
EAGLE POINT PLANT  
ASBESTOS

TABLE 1 OF 1  
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AREA SAMPLES  
7/15/82 - 04/22/82

| SAMPLE<br>NUMBER | DATE     | LOCATION | WIND SPEED   | TEMP<br>(F) | TIME | ANALYSIS<br>RESULT* | ADJUSTED<br>CONCENTRATION* | METHOD**  |
|------------------|----------|----------|--------------|-------------|------|---------------------|----------------------------|-----------|
| 6193000552       | 04/10/82 | OUTSIDE  | 0 TO 5 MPH   | 70          | 439  | < 0.0100 F/CC       | 439                        | 8 HR-SAME |
| 6193000553       | 04/14/82 | OUTSIDE  | 0 TO 5 MPH   | 70          | 435  | < 0.0100 F/CC       | 435                        | 8 HR-SAME |
| 6193000557       | 04/21/82 | OUTSIDE  | 0 TO 5 MPH   | 61          | 461  | 0.0100 F/CC         | 461                        | 8 HR-SAME |
| 6193000558       | 04/21/82 | OUTSIDE  | 1 TO 10 MPH  | 60          | 456  | 0.0100 F/CC         | 456                        | 8 HR-SAME |
| 6193000559       | 04/21/82 | OUTSIDE  | 1 TO 10 MPH  | 60          | 453  | 0.0100 F/CC         | 453                        | 8 HR-SAME |
| 6193000560       | 04/22/82 | OUTSIDE  | 11 TO 20 MPH | 59          | 460  | < 0.0100 F/CC       | 460                        | 8 HR-SAME |
| 6193000561       | 04/22/82 | OUTSIDE  | 11 TO 20 MPH | 59          | 453  | 0.1700 F/CC         | 453                        | 8 HR-SAME |
| 6193000562       | 04/22/82 | OUTSIDE  | 1 TO 10 MPH  | 59          | 430  | < 0.0100 F/CC       | 430                        | 8 HR-SAME |

\* = ANALYSIS BY FIELDING UNIT  
# = ANALYSIS BY LABORATORY  
J = ANALYSIS BY QUALITY CHECKS THE STANDARD

\*\* = 8 HR = 8 HOUR EXPOSURE DURING THE BALANCE OF THE UNSAMPLED TIME.  
/C = 100% CONC. ANALYSIS WAS COMPUTED BASED ON NO SIGNIFICANT EXPOSURE DURING THE BALANCE OF THE UNSAMPLED