PLAINTIFF'S EXHIBIT
TEX-93

SAF-1H-EAP

Houston, Texas
July 6, 1982

COPY

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	✓	0	CHM		
RGM			FCH		
ERK			DWM		
CWD			CFH		
MLM			DJS	✓	
JFY			SECY		
JJG					

INDUSTRIAL HYGIENE

POLYMERIZATION UNIT AND POWERHOUSE

AREA ASBESTOS SAMPLING

EAGLE POINT PLANT

APRIL 16-22, 1982

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

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

WA-TEX006316

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). Employes 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, employes' potential asbestos exposure may increase.

III. RECOMMENDATIONS

1) Although the above sampling determinations do not indicate potential asbestos fiber exposures to employes, 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 employe 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. Employes 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 employes of airborne asbestos concentrations.

WA-TEX006317

TABLE I

EAGLE POINT PLANT

ASBESTOS

AREA SAMPLES
04/16/82 - 04/22/82

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

TABLE 1 OF 1
PAGE 1 OF 1
REPORT DATE- JUL 6 1982

SAMPLE NUMBER	DATE	LOCATION	WIND SPEED	TEMP (F)	TIME	ANALYSIS RESULT*	ADJUSTED CONCENTRATION*	METHOD**
6193000552	04/16/82	POLYMERIZATION	0 TO 5 MPH	70	439	< 0.0100 F/CC	439 < 0.01 F/CC	8 HR-SAME
6193000553	04/16/82	POLYMERIZATION	0 TO 5 MPH	70	435	< 0.0100 F/CC	435 < 0.01 F/CC	8 HR-SAME
6193000557	04/21/82	UTILITIES	0 TO 5 MPH	60	461	0.0100 F/CC	461 0.01 F/CC	8 HR-SAME
6193000558	04/21/82	UTILITIES	INDOORS	60	456	0.0100 F/CC	456 0.01 F/CC	8 HR-SAME
6193000559	04/21/82	UTILITIES	INDOORS	60	453	0.0100 F/CC	453 0.01 F/CC	8 HR-SAME
6193000560	04/22/82	POLYMERIZATION	11 TO 20 MPH	59	460	< 0.0100 F/CC	460 < 0.01 F/CC	8 HR-SAME
6193000561	04/22/82	POLYMERIZATION	11 TO 20 MPH	59	453	0.1700 F/CC	453 0.17 F/CC	8 HR-SAME
6193000562	04/22/82	UTILITIES	INDOORS	59	430	< 0.0100 F/CC	430 < 0.01 F/CC	8 HR-SAME

* < = [illegible] LIMIT
[illegible] = [illegible] HUMOREDTH
[illegible] = [illegible]
[illegible] = ADJUSTED CONCENTRATION EXCEEDS THE STANDARD

** SAME = [illegible] CONCENTRATION WAS COMPUTED BASED ON ASSUMED SAME EXPOSURE DURING THE BALANCE OF THE UNSAMPLED TIME.
/EX = [illegible] CONCENTRATION WAS COMPUTED BASED ON NO SIGNIFICANT EXPOSURE DURING THE BALANCE OF THE UNSAMPLED TIME.

WA-TEX 006318