

BROWN & ROOT U.S.A., INC.
SHELL DEER PARK MANUFACTURING COMPLEX

INTEROFFICE MEMO

724.5
101

DATE	NAME	FILE
4/28/88	A. J. Schmit	
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PLAINTIFF'S EXHIBIT

SH-3215

TO: Jimmy Hearn-Superintendent, SBS Project

FROM: Bill Smithson

DATE: April 26, 1988

RE: Asbestos Monitoring Results

Industrial hygiene monitoring was conducted with your personnel during the SBS Asbestos Removal Project. The purpose of the monitoring was to determine employees exposures to asbestos during insulation removal activities on Tanks T-2510, T-2511, and T-2512.

As summarized in the Attachments, two (2) personal monitoring results did exceed the PEL TWA of 0.2 F/cc. The remaining personal and area air sampling results were within the Occupational Safety and Health Administration (OSHA) permissible exposure limits. A review of the sampling data sheets indicated proper protective clothing and respiratory protection were worn by the employees during the monitoring period.

According to the OSHA regulation you must communicate the report to the affected employees and I would encourage posting the report in an area accessible to other similar craft personnel for their review also.

If you have any questions concerning this report, call me at 476-6917.

WJS:kc

Attachments

cc: Al Schmit - Shell Industrial Hygenist
Jerry Stallings - Maintenance
Ken Dessert - Capital

LAM 006300

DPMC-18165

BROWN & ROOT U.S.A., INC.
 ASBESTOS MONITORING RESULTS
 SHELL DEER PARK MANUFACTURING COMPLEX

AREA: BPA-4 JOB ACTIVITY: (1) & 2 Removed ACM from Tank T-2511;

(3) Kept ACM Wet; (4) Handled Bags of ACM;

(5) & (6) Area Samples.

NAME	SOC. SEC. NUMBER	JOB TITLE	SAMPLE DATE	SAMPLE DURATION (MINUTES)	TIME-WEIGHTED AVERAGE RESULT (FIBER/cc) #1	CALCULATED 8 HOUR TWA
(1)		Insulator	04-04-88	400	0.050	
(2)		Insulator	04-04-88	400	0.040	
(3)		Insulator Hlpr.	04-04-88	395	0.100	
(4)		Insulator Hlpr.	04-04-88	395	0.260	
(5)	Area Sample - 25' Downwind from T-2511		04-04-88	450	< 0.005	
(6)	Area Sample - 25' Downwind from T-2511		04-04-88	450	0.006	

DPMC-18166

Permissible Exposure Limit..... 0.2 F/cc

1) Fiber/cc - Fibers Of Asbestos Per Cubic Centimeter Of Air.

LAM 006301

BROWN & ROOT U.S.A., INC.
ASBESTOS MONITORING RESULTS
SHELL DEER PARK MANUFACTURING COMPLEX

AREA: BPA-4

JOB ACTIVITY: (1) & 2 Removed ACM from Tank T-2510;

(3) & (4) Handled Bags of ACM from Same;

(5) & (6) Area Samples.

NAME	SOC. SEC. NUMBER	JOB TITLE	SAMPLE DATE	SAMPLE DURATION (MINUTES)	TIME-WEIGHTED AVERAGE RESULT (FIBER/cc) #1	CALCULATED 8 HOUR TWA
(1)		Insulator	04-06-88	410	0.230	
(2)		Insulator	04-06-88	410	0.030	
(3)		Insulator Hlpr.	04-06-88	410	0.030	
(4)		Insulator Hlpr.	04-06-88	410	< 0.005	
(5)	Area Sample - 25' Downwind from T-2510		04-06-88	480	< 0.005	
(6)	Area Sample - 25' Downwind from T-2510		04-06-88	480	0.005	

DPMC-18167

Permissible Exposure Limit..... 0.2 F/cc

1) Fiber/cc - Fibers Of Asbestos Per Cubic Centimeter Of Air.

LAM 006302

BROWN & ROOT U.S.A., INC.
ASBESTOS MONITORING RESULTS
SHELL DEER PARK MANUFACTURING COMPLEX

AREA: BPA-4

JOB ACTIVITY: (1) Removed ACM from Tank T-2512; (2) Kept ACM Wet;

(3), (4), & (5) Handled Bags of ACM;

(6) & (7) Area Samples.

NAME	SOC. SEC. NUMBER	JOB TITLE	SAMPLE DATE	SAMPLE DURATION (MINUTES)	TIME-WEIGHTED AVERAGE RESULT (FIBER/cc) #1	CALCULATED 8 HOUR TWA
(1)		Insulator	04-13-88	415	0.010	
(2)		Insulator Hlpr.	04-13-88	415	0.006	
(3)		Insulator Hlpr.	04-13-88	415	0.008	
(4)		Insulator Hlpr.	04-13-88	415	0.006	
(5)		Insulator Hlpr.	04-13-88	415	0.009	
(6)	Area Sample - 20' Downwind from T-2512		04-13-88	465	< 0.005	
(7)	Area Sample - 20' Downwind from T-2512		04-13-88	450	< 0.005	

DPMC-18168

Permissible Exposure Limit..... 0.2 F/cc

1) Fiber/cc - Fibers Of Asbestos Per Cubic Centimeter Of Air.

LAM 006303

BROWN & ROOT U.S.A., INC.
 ASBESTOS MONITORING RESULTS
 SHELL DEER PARK MANUFACTURING COMPLEX

AREA: BPA-4 JOB ACTIVITY: (1) Removed ACM from Tank T-2512; (2) Kept ACM Wet;

(3), (4), & (5) Handled Bags of ACM;

(6) & (7) Area Samples.

NAME	SOC. SEC. NUMBER	JOB TITLE	SAMPLE DATE	SAMPLE DURATION (MINUTES)	TIME-WEIGHTED AVERAGE RESULT (FIBER/cc) #1	CALCULATED 8 HOUR TWA
(1)		Insulator	04-14-88	420	0.010	
(2)		Insulator Hlpr.	04-14-88	420	0.020	
(3)		Insulator Hlpr.	04-14-88	420	0.030	
(4)		Insulator Hlpr.	04-14-88	420	0.010	
(5)		Insulator Hlpr.	04-14-88	420	0.008	
(6)	Area Sample - 25' Downwind from T-2512		04-14-88	465	< 0.005	
(7)	Area Sample - 25' Downwind from T-2512		04-14-88	465	< 0.005	

Permissible Exposure Limit..... 0.2 F/cc

1) Fiber/cc - Fibers Of Asbestos Per Cubic Centimeter Of Air.

DPMC-18169

LAM 006304

BROWN & ROOT U.S.A., INC.
ASBESTOS MONITORING RESULTS
SHELL DEER PARK MANUFACTURING COMPLEX

<u>AREA:</u>		<u>BPA-4</u>	<u>JOB ACTIVITY:</u> (1) - (5) Area Samples.			
<u>NAME</u>	<u>SOC. SEC. NUMBER</u>	<u>JOB TITLE</u>	<u>SAMPLE DATE</u>	<u>SAMPLE DURATION (MINUTES)</u>	<u>TIME-WEIGHTED AVERAGE RESULT (FIBER/cc) #1</u>	<u>CALCULATED 8 HOUR TWA</u>
(1) Area Sample - 20' Downwind from T-2512			04-12-88	470	0.006	
(2) Area Sample - West of T-3222			04-12-88	470	0.007	
(3) Area Sample - West of T-2301			04-12-88	465	0.005	
(4) Area Sample - Open Area North of the Old Control Room			04-12-88	480	0.005	
(5) Area Sample - West Side of BPA Projects Building			04-12-88	480	0.005	

Permissible Exposure Limit..... 0.2 F/cc

1) Fiber/cc - Fibers Of Asbestos Per Cubic Centimeter Of Air.

DPMC-18170

LAM 006305

BROWN & ROOT U.S.A., INC.
 ASBESTOS MONITORING RESULTS
 SHELL DEER PARK MANUFACTURING COMPLEX

<u>AREA:</u>		<u>BPA-4</u>		<u>JOB ACTIVITY: (1) - (4) Area Samples.</u>		
<u>NAME</u>	<u>SOC. SEC. NUMBER</u>	<u>JOB TITLE</u>	<u>SAMPLE DATE</u>	<u>SAMPLE DURATION (MINUTES)</u>	<u>TIME-WEIGHTED AVERAGE RESULT (FIBER/cc) #1</u>	<u>CALCULATED 8 HOUR TWA</u>
(1) Area Sample - West Side of BPA Projects Building			04-11-88	480	0.007	
(2) Area Sample - West Side of T-2301			04-11-88	480	None Detected	
(3) Area Sample - 20' from T-2513			04-11-88	480	0.005	
(4) Area Sample - 20' from T-2512			04-11-88	480	None Detected	

DPMC-18171

LAM 006306

Permissible Exposure Limit..... 0.2 F/cc

- 1) Fiber/cc - Fibers Of Asbestos Per Cubic Centimeter Of Air.