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Interoffice Memorandum

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JAS
PLAINTIFF'S EXHIBIT

SH-3180

JUNE 29, 1987

FROM: J.E. BARTON, INDUSTRIAL HYGIENE ASSISTANT, HEALTH & SAFETY
DEER PARK MANUFACTURING COMPLEX

TO: J.W. OVERMAN, PROCESS MANAGER CAT CRACKING & GAS
DEER PARK MANUFACTURING COMPLEX

SUBJECT: MONITORING RESULTS FOR INORGANIC LEAD AND HEXAVALENT
CHROMIUM DURING ABRASIVE BLASTING AT CC&G

Attached are Industrial Hygiene monitoring results for total dust, inorganic lead and hexavalent chromium which were collected downwind of the abrasive blasting at the Cat Cracker and Gas Fractionator Units. The sampling results may be compared to the following exposure guidelines:

Eight-hour
time-weighted average

Inorganic Lead	0.05 mg/m ³
Hexavalent Chromium	0.05 mg/m ³
Total Dust	10.0 mg/m ³

One personnel sample was collected on the CCU Compressor Operator to evaluate exposure potential to personnel working in the vicinity of the abrasive blasting area. The compressor operator was monitored because it was primarily the compressor area being affected by the abrasive blasting at this time.

All of the area samples were positioned within 1-5 feet of the barricade tape which identified the abrasive blasting area. All of the area sampling results received to date are below the exposure guidelines for inorganic lead, hexavalent chromium and total dust.

The results of both area and personnel monitoring should be posted in an area accessible to the personnel who work in the Cat Cracking and Gas Fractionator areas.

Your cooperation with Industrial Hygiene in establishing and following requirements relative to the abrasive blasting is appreciated. If you have any questions regarding these monitoring results please call me at 7342.

J.E. Barton
J.E. Barton

Attachment

LAM 006137

CHBT8718104

DPMC-18019

cc: W.B. Austin
A.F. Schmit
P.M. Spicer
T.A. Roberts
R. Snodgrass
JEB Chron
ECB Satellite

LAM 006138

DPMC-18020

CHBT8718104

MONITORING RESULTS FORM

DEPARTMENT/PROCESS:

CC GAS

JOB DESCRIPTION:

COMPRESSOR OPERATOR

NAME	EMP. NO.	DATE	TIME	SAMPLE RESULTS (mg/m ³)				SAMPLE PERIOD (MIN)	WORK DESCRIPTION	(1) 8-HR TWA	(2) RESP
				INORGANIC		TOTAL					
				LEAD GUIDE-LINE =	0.05 mg/m ³	DUST GUIDE-LINE =	10.0 mg/m ³				
		26-87	0710 1432	0.003		.4		442	Abrasive blasting of lead painted piping in the area of compressors and auxiliary equipment. Compressor operator was outside approx. 30% of shift.	X	

LAM 006139

DPMC-18021

- (1) X indicates that the sample result is a measure of the eight-hour time-weighted average exposure.
- (2) X indicates that a respirator was worn during the sampling period.

CHBT8718107

MONITORING RESULTS FORM

DEPARTMENT/PROCESS:		CC GAS		JOB DESCRIPTION:		AREA SAMPLES			
NAME	EMP. NO.	DATE	TIME	SAMPLE RESULTS (mg/m ³)		SAMPLE PERIOD (MIN)	WORK DESCRIPTION	(1) 8-HR TWA	(2) RESP
				INORGANIC LEAD GUIDE-LINE = 0.05 mg/m ³	TOTAL DUST GUIDE-LINE = 10.0 mg/m ³				
Area		5-26-87	0915 1600	.028	2.8	405	Sample located west of CCU control room on the SE corner of compressor platform approx. 10 feet above ground at barricade tape of the abrasive blasting operations approx. 50-70 feet downwind of source.		
Area		5-26-87	1038 1605	<0.001	-	327	Sample located approx. 30 feet upwind of source on 1st landing of staircase south of CCU control room and equipment being blasted - approx. 10 ft. inside barricade.		
Area		5-27-87	0955 1515	0.030	.7	320	Sample located approx. 50 feet downwind of blasting source at Gas Recovery fractionator. Mounted on 1st "I" beam east of fin fans (north-west of control room) 10 feet outside barricade.		

LAM 006140

DPMC-18022

CHBT8718107

MONITORING RESULTS FORM

DEPARTMENT/PROCESS:		CC GAS		JOB DESCRIPTION:		AREA SAMPLES			
NAME	EMP. NO.	DATE	TIME	SAMPLE RESULTS (mg/m ³)		SAMPLE PERIOD (MIN)	WORK DESCRIPTION	(1) 8-HR TWA	(2) RESP
				INORGANIC LEAD GUIDE-LINE =	TOTAL DUST GUIDE-LINE =				
				0.05 mg/m ³	10.0 mg/m ³				
Area		5-27-87	1030 1605	0.028	2.8	280	Sample located west of CCU control room on SE corner of compressor shed platform during abrasive blasting operations at CCU (approx. 50 feet downwind of blaster).		

LAM 006141

DPMC-18023

CHBT8718107

MONITORING RESULTS FORM

DEPARTMENT/PROCESS: CC GAS JOB DESCRIPTION: AREA SAMPLES

NAME	EMP. NO.	DATE	TIME	SAMPLE RESULTS (mg/m ³)		SAMPLE PERIOD (MIN)	WORK DESCRIPTION	(1) 8-HR TWA	(2) RESP
				HEXAVALENT CHROMIUM	TOTAL DUST				
				GUIDE - LINE = 0.05 mg/m ³	GUIDE - LINE = 10.0 mg/m ³				
Area		5-26-87	0915 1600	<0.005	2.11	405	Sample located west of CCU control room on the SE corner of compressor platform approx. 10 feet above ground at barricade tape of the abrasive blasting operation - approx. 50-70 feet downwind of source.		
Area		5-26-87	1038 1605	<0.005	0.16	327	Sample located approx. 30 feet upwind of source on 1st landing of staircase south of CCU control room and equipment being blasted - approx. 10 feet inside barricade.		
Area		5-27-87	0955 1515	<0.005	1.18	320	Sample located approx. 50 feet downwind of blasting source at Gas Recovery fractionator. Mounted on 1st "I" beam east of fin fans (northwest of control room); 10 feet outside barricade.		

LAM 006142

DPMC-18024

CHBT8718107

MONITORING RESULTS FORM

DEPARTMENT/PROCESS:		CC GAS		JOB DESCRIPTION:		AREA SAMPLES			
NAME	EMP. NO.	DATE	TIME	SAMPLE RESULTS (mg/m ³)		SAMPLE PERIOD (MIN)	WORK DESCRIPTION	(1) 8-HR TWA	(2) RESP
				HEXAVALENT CHROMIUM GUIDE-LINE = 0.05 mg/m ³	TOTAL DUST GUIDE-LINE = 10.0 mg/m ³				
Area		5-27-87	1030 1510	<0.005	1.89	280	Sample located west of CCU control room on SE corner of compressor shed platform during abrasive blasting operations at CCU (approx. 50 feet downwind of blaster).		

LAM 006143

DPMC-18025

CHBT8718107

MONITORING RESULTS FORM

DEPARTMENT/PROCESS: CC GAS JOB DESCRIPTION: AREA SAMPLES

NAME	EMP. NO.	DATE	TIME	SAMPLE RESULTS (mg/m ³)				SAMPLE PERIOD (MIN)	WORK DESCRIPTION	(1) 8-HR TWA	(2) RESP
				HEXAVALENT CHROMIUM	DUST	GUIDE-LINE =	TOTAL				
				GUIDE-LINE = 0.05 mg/m ³	GUIDE-LINE = 10.0 mg/m ³						
Area		5-26-87	0915 1600	<0.005	2.11			405	Sample located west of CCU control room on the SE corner of compressor platform approx. 10 feet above ground at barricade tape of the abrasive blasting operation - approx. 50-70 feet downwind of source.		
Area		5-26-87	1038 1605	<0.005	0.16			327	Sample located approx. 30 feet upwind of source on 1st landing of staircase south of CCU control room and equipment being blasted - approx. 10 feet inside barricade.		
Area		5-27-87	0955 1515	<0.005	1.18			320	Sample located approx. 50 feet downwind of blasting source at Gas Recovery fractionator. Mounted on 1st "I" beam east of fin fans (northwest of control room); 10 feet outside barricade.		

LAM 006144

DPMC-18026

CHBT87181C

MONITORING RESULTS FORM

DEPARTMENT/PROCESS: CAT CRACKING & GAS JOB DESCRIPTION: AREA SAMPLES

NAME	EMP. NO.	DATE	TIME	SAMPLE RESULTS (mg/m ³)		TOTAL NOISANCE	DUST GUIDE-LINE = 10.0 mg/m ³	SAMPLE PERIOD (MIN)	WORK DESCRIPTION	(1) 8-HR TWA	(2) RESP
				INORGANIC	LEAD						
				GUIDE-LINE = 0.05 mg/m ³	GUIDE-LINE = 10.0 mg/m ³						
Area Sample		11-23-87	0832 1308	<.0001		<0.5		276	Area sample collected at corner of 13th & P streets. Approx. 250' NW of DHT unit. Sandblasting being done on DHT.		
Area Sample		11-23-87	0831 1311	.0043		<0.5		280	Sample collected at NE corner of East Maintenance Annex trailer approx. 150' north of DHT unit. Sandblasting being done on DHT.		
Area Sample		11-23-87	0831 1309	<.0001		<0.5		278	Sample collected at NE corner of 13th & P streets approx. 100' NW of DHT unit during sandblasting.		
Area Sample		11-23-87	0828 1310	.0175		1.3		282	Sample collected at north end of DHT during sandblasting.		
Area Sample		11-23-87	0832 1307	<.0001		<0.5		279	Sample collected at SE corner of CCU approx. 350' from DHT unit. Sandblasting being done on DHT unit.		

LAM 006145

DPMC-18

LAM 006145

DPMC-18027

(1) X indicates that the sample result is a measure of the eight-hour time-weighted average exposure.

(2) X indicates that a respirator was worn during the sampling period.

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MONITORING RESULTS FORM

DEPARTMENT/PROCESS: CAT CRACKED GAS JOB DESCRIPTION: AREA SAMPLES

NAME	EMP. NO.	DATE	TIME	SAMPLE RESULTS (MG/M ³)						SAMPLE PERIOD (MIN)	WORK DESCRIPTION	(1) 8-HR TWA	(2) RESP
				INORGANIC		TOTAL		HEXAVALENT					
				LEAD	GUIDE-LINE =	DUST	GUIDE-LINE =	CHROMIUM	GUIDE-LINE =				
				0.05 mg/m ³	10.0 mg/m ³								
Area		6-1-87	0850 1400	-	0.41	<0.005			310	Sample located west of CCU control room at south-east corner of compressor shed platform. Approx. 50 ft. downwind of blaster.			
Area		6-1-87	0850 1400	0.0114	<0.3	-			310	Sample located west of CCU control room on south-east corner of compressor shed platform. Approx. 50 ft. downwind of blaster.			
Area		6-1-87	0840 1400	<0.0004	<0.3	-			320	Sample located approx. 50 ft. downwind of blasting source at Gas Recovery Fractionator.			
Area		6-1-87	0840 1400	-	0.15	<0.005			320	Sample located approx. 50 ft. downwind of blasting source at Gas Recovery Fractionator.			

LAM 00614

DPMC-18

LAM 006146

DPMC-18028

CHBT8721504

MONITORING RESULTS FORM

DEPARTMENT/PROCESS:		CC GAS		JOB DESCRIPTION:		AREA SAMPLES			
NAME	EMP. NO.	DATE	TIME	SAMPLE RESULTS (mg/m ³)		SAMPLE PERIOD (MIN)	WORK DESCRIPTION	(1) 8-HR TWA	(2) RESP
				HEXAVALENT CHROMIUM GUIDE-LINE = 0.05 mg/m ³	TOTAL DUST GUIDE-LINE = 10.0 mg/m ³				
Area		5-27-87	1030 1510	<0.005	1.89	280	Sample located west of CCU control room on SE corner of compressor shed platform during abrasive blasting operations at CCU (approx. 50 feet downwind of blaster).		

LAM 006147

DPMC-18029

CHBT87181C

MONITORING RESULTS FORM

DEPARTMENT/PROCESS: CC GAS JOB DESCRIPTION: COMPRESSOR OPERATOR

NAME	EMP. NO.	DATE	TIME	SAMPLE RESULTS (mg/m ³)			SAMPLE PERIOD (MIN)	WORK DESCRIPTION	(1) 8-HR TWA	(2) RESP
				INORGANIC	LEAD	DUST				
				GUIDE - LINE =	GUIDE - LINE =	GUIDE - LINE =				
				0.05 mg/m ³		10.0 mg/m ³				
		5-26-87	0710 1432	0.003		.4	442	Abrasive blasting of lead painted piping in the area of compressors and auxiliary equipment. Compressor operator was outside approx. 30% of shift.	X	

(1) X indicates that the sample result is a measure of the eight-hour time-weighted average exposure.
 (2) X indicates that a respirator was worn during the sampling period.

DPMC-18030

LAM 006148

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