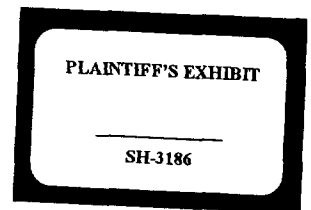




Shell Oil Company • Shell Chemical Company
Interoffice Memorandum

724.3
CA 124



AUGUST 5, 1987

FROM: H.F. ELY, SENIOR SAFETY INSPECTOR, HEALTH & SAFETY
DEER PARK MANUFACTURING COMPLEX

TO: L.R. BROERING, PROCESS MANAGER, CAT REFORMING
DEER PARK MANUFACTURING COMPLEX

SUBJECT: MONITORING RESULTS FOR INORGANIC LEAD AND HEXAVALENT
CHROMIUM DURING ABRASIVE BLASTING AT CAT REFORMING

Attached are industrial hygiene monitoring results for total dust, inorganic lead and hexavalent chromium which were collected downwind of abrasive blasting at the CR-3 Offsite area. Both area samples were positioned approximately 60 feet downwind of the blasting on tank J-317. The lead result indicates a potential for lead exposure, exceeding the OSHA Permissible Exposure Limit (PEL), exists downwind of abrasive blasting on lead-based painted surfaces. Additional monitoring will be required to more fully define affected areas. Personnel who must work in areas downwind of abrasive blasting on lead-based painted surfaces should wear dust respirators (3M 9920 or dual cartridge with HEPA filters). Refer to attached HS&E Guidelines for Application and Removal of Lead/Chromate Based Coatings. 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

These results should be posted in an area accessible to the personnel who work in the CR-3 Offsites area.

If you have any questions, please call me at extension 7710.

H.F. Ely
H.F. Ely

HFE/md

Attachments

LAM 006181

DPMC-18060

CHBT8721707

cc: W.B. Austin
B. Bitner
A.F. Schmit
ECB Satellite
HFE Chron

LAM 006182

DPMC-18061

CHBT8721707

MONITORING RESULTS FORM

DEPARTMENT/PROCESS: CAT REFORMING JOB DESCRIPTION: AREA SAMPLES

NAME	EMP. NO.	DATE	TIME	SAMPLE RESULTS (mg/m ³)						WORK DESCRIPTION	(1) 8-HR TWA	(2) RESP
				INORGANIC		TOTAL		HEXAVALENT				
				LEAD	DUST	CHROMIUM	GUIDE -	GUIDE -	LINE =			
				GUIDE -	LINE =	LINE =	SAMPLE PERIOD	(MIN)				
				0.05 mg/m ³	10.0 mg/m ³	0.05 mg/m ³						
Area		6/5/87	0800 1445	0.1188	2.9	-		405	Sample located at south-west firewall about 60 ft. downwind from blasting source - J-317 abrasive blasting on tank that had been primed with "Red Lead".			
Area		6/5/87	0800 1445	-	2.25	<0.005		405	Sample located at south-west firewall about 60 ft. downwind from blasting source - J-317 abrasive blasting on tank that had been primed with "Red Lead".			

DPMC-18062

LAM 006183

CHBT8721505

East Operations Catalytic
Refining Monitoring Results
1987 724.3

LAM 006180

DPMC 18059.1