

INTEROFFICE MEMORANDUM

OCTOBER 2, 1991

1/243
SH-3204
PLAINTIFF'S EXHIBIT

FROM: D. L. TACKETT, INDUSTRIAL HYGIENIST, HEALTH & SAFETY, DEER PARK MANUFACTURING COMPLEX

TO: J. A. GANDOLFO, MANAGER, CENTRAL MAINTENANCE, DEER PARK MANUFACTURING COMPLEX

SUBJECT: DUST AND NOISE EXPOSURE MONITORING

On June 27 and 28, 1991, industrial hygiene monitoring was done during abrasive blasting activities at the Sand Yard. The monitoring was done to provide an initial assessment of a new abrasive blasting helmet (Northstar), as compared to the performance of the helmet currently in use at the yard. Samples for dust, including certain metals, and noise were taken.

The results of monitoring are included on the attached Industrial Hygiene Exposure Monitoring Form. The exposure guidelines for total dust and the metals are as follows:

Total Dust	-	10 mg/m ³
Copper	-	1 mg/m ³
Lead	-	0.05 mg/m ³
Nickel	-	1 mg/m ³

These guidelines are as 8-hour time weighted averages. For noise exposure, hearing protection is required at or above 85 dBA.

During the sampling, Kiefer wore the Northstar helmet. The results of the dust and metals samples are all well below their respective exposure guideline. Although no result was obtained for the one noise sample, the sample taken in the Northstar helmet is consistent with noise levels typically measured inside blasting hoods, approximately 100 dBA (refer to Health & Safety Order S-124).

This limited sampling data suggests that there is no significant difference between the two helmets, relative to potential exposures to noise and dust.

All affected employees must be informed of these sampling results. This may be done individually, or by posting of the attached forms in a place accessible by the employees.

DPMC-18118

LAM 006250

If you have any questions regarding these results, or require additional assistance, please contact me at 6-1218.

Lynne Tackett
Lynne Tackett

Attachment

cc: W./B. Austin
H/B Satellite
DLT Chron

LAM 006251

DPMC-18119

DEER PARK MANUFACTURING COMPLEX
INDUSTRIAL HYGIENE EXPOSURE MONITORING RESULTS FORM

DEPARTMENT/PROCESS: PAINT SHOP-MTC-DPMC

EMPLOYEE NAME	SAMPLED	DATE PERIOD	PERIOD	YES	SAMPLE (MIN)	(1)	SMPL TIME (2)	8-HR TWA	RESP WORN?	RESULT	WORK TASK
06/28/91	0740-1115	215	NO	YES	CU (SOL)	<0.002	MG/M3	SPENT APPROX. 1 HR. ABRASIVE BLASTING WITH STAN BLAST. NORTHSTAR HOOD			
					NI	<0.003	MG/M3	SPENT APPROX. 1 HR. ABRASIVE BLASTING WITH STAN BLAST. NORTHSTAR HOOD			
					PB	<0.0081	MG/M3	SPENT APPROX. 1 HR. ABRASIVE BLASTING WITH STAN BLAST. NORTHSTAR HOOD			
					TOTAL DUST	<0.5	MG/M3	SPENT APPROX. 1 HR. ABRASIVE BLASTING WITH STAN BLAST. NORTHSTAR HOOD			
06/28/91	0742-1120	218	NO	YES	CU (SOL)	<0.002	MG/M3	SPENT APPROX. 1 HR ABRASIVE BLASTING USING STAN BLAST.			
					NI	<0.002	MG/M3	SPENT APPROX. 1 HR ABRASIVE BLASTING USING STAN BLAST.			
					PB	<0.0073	MG/M3	SPENT APPROX. 1 HR ABRASIVE BLASTING USING STAN BLAST.			
					TOTAL DUST	<0.5	MG/M3	SPENT APPROX. 1 HR ABRASIVE BLASTING USING STAN BLAST.			
06/27/91	0940-1408	268	NO	YES	NOISE	92	DBA	SPENT APPROX. 1 1/2 HR ABRASIVE BLASTING USING STAN BLAST. NOISE LEVEL INSIDE HELMET AT 100-105 DBA. NORTHSTAR HELMET WORN			
06/27/91	0958-1408	250	NO	YES	NOISE	---	---	SPENT APPROX. 1 1/2 HR ABRASIVE BLASTING USING STAN BLAST. NO RESULT OBTAINED. DOSIMETER TURNED OFF BEFORE DATA WAS READ.			

- (1) YES INDICATES THAT THE SAMPLE RESULT IS A MEASURE OF THE EIGHT-HOUR TIME WEIGHTED AVERAGE EXPOSURE.
(2) YES INDICATES THAT A RESPIRATOR WAS WORN DURING THE SAMPLING PERIOD.

DATE RUN: 10/02/91

DPMC-18120

LAM 006252

Industrial Hygiene-724.3
Monitoring Rule
Maintenance Central
130320 061 CH10/65/9415

LAM 006249

DPMC 18:17:1

Industrial Hygiene - 724.3
Monitoring Data - 1991
Maintenance Central
130320 061 CH10/65/475

LAM 006248