

*Fred Eaton
Reed Wright*

CAMBRIDGE

*While these results are low vs Fed regulation,
it once again suggests that Minneapolis is higher
than other plants, especially during the winter.*

To: J. Baba/Minneapolis *Just* Date: 1 February 1985

From: P. M. Connor

cc: F. Eaton
R. Kilbaugh/W. Chicago
W. R. Wright
[Redacted]

Subject: Industrial Hygiene Survey

On December 6, 1984, I conducted an industrial hygiene survey at the Minneapolis plant. The results of the survey are attached, and a discussion of the results is contained below.

Air Sampling - Fiber

The results of the personnel fiber sampling are well below the OSHA Permissible Exposure Limit (PEL) for asbestos of 2.0 fibers/cc of air for an 8-hour Time-Weighted Average (TWA).

Employee	Job	Ore	8-hour TWA
R. Batcher	Bagging and loading Masonry	L-3	0.166 fiber/cc
E. Fischer	Bagging and loading Masonry	L-3	0.176 fiber/cc

The results of the engineering samples show the waste rock collector as a potential problem area. Sample MN-21, from the waste rock hopper, showed a fiber level of 1.65 fiber/cc. Currently, the waste rock is collected in a shallow wheelbarrow which is ventilated by means of a canopy hood with three canvas siding flaps. I recommend that you contact CPD Engineering to request a better method of airborne fiber control for the waste rock collector.

Noise Monitoring

The results of the employee noise dosimetry are indicated below and on the attached sheets.

Employee	Job	80 dB Threshold	90 dB Threshold (dBA)
E. Fischer	Bagging and loading Masonry	73.1	55.4
R. Batcher	Bagging and loading Masonry	76.0	62.7

The noise monitoring was done using both 80 dBA and 90 dBA threshold levels. An overexposure (85 dBA or greater) with the 80 dBA threshold signals the need for a Hearing Conservation Program to be in effect. An overexposure (90 dBA or greater) with the 90 dBA threshold requires mandatory hearing protection in accordance with OSHA regulations.

The results of the noise dosimetry done in Minneapolis reveal that employee noise exposures are below the Permissible Exposure Limit (PEL) of 90 dBA as well as being below the "Action Level" of 85 dBA for an 8-hour TWA.

Safety Survey

At this time I have no recommendations.



Paul M. Connor

.PMC/al

Attachments

C055

10002688

NOISE DOSIMETRY RECORD II

Health, Safety & Toxicology

Plant Location Minneapolis

Date 6 December 1984

Measurements by P.M. Connor

EMPLOYEE NAME	Emil Fischer	Roger Batchner		
SOC. SEC. NO.				
JOB DESCRIPTION	Bagging masonry	Bagging masonry		
PROTECTIVE EQUIP.	NONE	NONE		
DOSIMETER NO.	13579	013589		
CALIBRATION	PRE POST	PRE POST		
MIN. IN WORKDAY	600	600		
TOTAL BREAK MIN.	50/10	50/10		
DOSIMETER	ON OFF	ON OFF		
TOTAL TIME	3:31 (211 min)	3:48 (228 min)		
(1) DOSE %	3.5	5.7		
(1) L avg. (dB)	71.9	74.8		
(2) DOSE %	0.3	0.9		
(2) L avg. (dB)	54.8	62.0		
L max. (dB)	105.8	105.8		
TIME OF L max.	2:59	3:36		
PEAK L max. (1/16 sec.)	113.3	107.3		
PROJ. 8-hr DOSE	8.0	12.1		
TIME > 115 dB	0.00	0.0		
(1) 8-hr TWA (dB)	73.1	76.0		
(2) 8-hr TWA (dB)	55.4	62.7		

Equipment: DuPont MK-2 dosimeter

Settings: (1) (2)

Threshold Level 80 dB 90 dB
 Criterion level 90 dB 90 dB
 Doubling Rate 5 dB 5 dB

Additional Comments