

File: ORIGINAL
INTRACOMPANY CORRESPONDENCE

R-98 (Rev. 1-68)

PLAINTIFF'S
EXHIBIT

RMC-139c

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EXO

DATE & SUBJECT: March 3, 1983 INDUSTRIAL HYGIENE SURVEY, MCCOOK PLANT

cc: D.V.L. Bullough - RRD

At the request of plant management, an Industrial Hygiene survey was conducted at the McCook Sheet & Plate Plant, during August and September 1982. Following are the results of that survey:

- 1) OIL MIST - Personal samples for airborne oil mist were collected for job categories associated with hot rolling, cold rolling, plate rolling, and plate finishing. Samples are generally less than 20 percent of the OSHA standard and indicate compliance in all areas.
- 2) NOISE - Sound level measurements were made throughout the plant, using a conventional sound level meter. Follow-up measurements were made, using 80 and 90 dBA personal audiodosimeters, to determine full-shift exposures. Results indicate that a Mandatory Hearing Conservation Program is required for the following areas:

Hot Rolling Department - Mandatory hearing protection required for all jobs associated with the 80" mill and the 1-1/2" shear. All other employees associated with hot rolling, such as the 6" shear, the scalper, the baler, the ingot stacker, the bandstand, and the crane operator, require inclusion in your Hearing Conservation Program (i.e. annual monitoring and audiograms).

Cold Rolling Department - Mandatory hearing protection is required for the #1 mill operator and the assistant and the #7 mill, A and B operators. All other employees should be included in your Hearing Conservation Program.

Plate Finishing - Mandatory hearing protection is required for the Rust furnace exit operator, with all other employees being included in your Hearing Conservation Program.

Cast House, Plate Rolling, Strip Processing, Heat Treat, Skin Mill, Finishing - All employees in these departments are to be included under the Hearing Conservation Program.

- 3) CASTHOUSE - NUISANCE DUST - METALS - Personal samples for total airborne dust (nuisance dust), aluminum, lead, and beryllium were collected throughout the casthouse. Both nuisance dust and trace levels are well below OSHA guidelines.

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Table 10
NECOCK SHEET & PLATE
ASBESTOS SURVEY
August 25, 1982

<u>SAMPLE NUMBER & DESCRIPTION</u>	<u>Asbestos Fibers/cc</u>	<u>Asbestos * Fibers/cc 8-hr. TWA</u>
<u>LABORER - SWEEPING & SHOVELING SCRAP INSULATION</u>		
A2 Miguel Torres, 7:55a-9:16a	0.17	0.13
A6 " " 9:16a-9:36a	0.08	
A9 " " 9:36a-11:25a	0.11	
A1 Willie White, 7:55a-9:16a	0.15	0.05
A7 " " 9:16a-9:36a	0.00	
A8 " " 9:36a-11:25a	0.04	
<u>MAINTENANCE PERSONNEL</u>		
A3 E. Hunter (Welder, inside furnace) 8:45am-11:25a	0.03	0.01
A4 R. Stillwell - Millwright 8:52a-11:25a	0.00	0.00
A5 V. Dyer - Millwright 8:53a-11:25a	0.02	0.02

*OSHA standard for asbestos: 2.0 fibers/cc - 8-hour TWA;
10 fibers/cc - ceiling value;
0.1 fibers/cc, medical surveillance guideline



REYNOLDS

McCook Sheet + Plate Plant

ALUMINUM

Trace Metals Survey

DATE

PAGE

OF

2

Cast House

August 27 + September 1, 1982

Sample No. + Description

Aluminum
Conc. (µg/m³)Lead
Conc. (µg/m³)Beryllium
Conc. (µg/m³)Manganese
Conc. (µg/m³)Nickel
Conc. (µg/m³)Cadmium
Conc. (µg/m³)

MO8202-5 J.C. Williams

<0.01

<1.18

<0.12

Furnaces 5 + 6, operator

8:25a - 3:15p, 9-1-82

MO8182-4 Andres Baker

0.03

<1.33

0.17

Furnace 28, unit operator

8:15a - 3:25p, 8-27-82

MO8182-1 Raul Ramirez

0.06

<1.28

<0.12

Furnace 28, unit asst. oper.

8:05a - 3:20p, 8-27-82

MO8202-4 Virgil Walton

0.04

<1.19

<0.12

Furnaces 5 + 6, helper

8:20a - 3:15p, 9-1-82

MO8182-2 Gerardo Tovar

0.06

1.74

<0.13

Furnace 28, helper

8:10a - 3:20p, 8-27-82

MO8202-3 Wilbur Richards

0.01

<1.19

<0.12

station 3 casting operator

8:15a - 3:15p, 9-1-82

MO8202-1 Herman Bey

0.01

<1.15

<0.12

charge dolly operator

8:20a - 3:30p, 9-1-82

MO8182-3 C.J. McCullum

0.06

2.06

0.13

dross dolly operator

8:10a - 3:30p, 8-27-82

MO8202-2 Huston Starned

0.06

1.74

<0.13

dolly operator

8:15a - 3:25p, 9-1-82

TX Tiner

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REYNOLDS ALUMINUM

DATE

mg/m^3 ug/m^3 ug/m^3 AGE 2 OF 2
 Al Pb Be

MO8182-9 James Jones	0.03	1.85	0.26		
chip melter operator					
8:25 a - 3:30 p, 8-27-82					
MO8182-6 Noah Palmer	0.02	<1.32	0.21		
chip melter helper					
8:20 a - 3:30 p, 8-27-82					
MO8182-7 John Reed	0.16	4.13	0.28		
reclamation dolly operator					
8:20 a - 3:35 p, 8-27-82					
MO8182-10 Lee Johnson	0.07	1.45	0.29		
reclamation laborer					
8:20 a - 3:35 p, 8-27-82					
MO8202-6 Richard Kozar	0.03	<1.20	<0.12		
baler operator #2					
8:35 a - 3:00 p, 8-29-82					
MO8202-7 Willie Hicks	0.02	<1.23	<0.12		
baler helper,					
8:35 a - 3:00 p, 8-29-82					

1. The OSHA standard for aluminum oxide is $15,000 \text{ ug/m}^3$, 8 hour time weighted av
2. " lead is 50 ug/m^3 , "
3. " beryllium is 2 ug/m^3 , "
4. " magnesium is $15,000 \text{ ug/m}^3$, "
5. " manganese is $5,000 \text{ ug/m}^3$, ceiling value