

File Memo
Trenton Chemical
June 18, 1969

Subject: Follow-up Study - Friction Materials Building

The ventilation for the new Littleford mixers was evaluated and was found to be inadequate at this time. The bypass damper for the mixers has not yet been installed and virtually no exhaust is provided at this time. A problem was observed when the automatic loading cart for these mixers is inverted. The top of this cart leaks at several points and some material escapes. The housekeeping in the area where these Littleford mixers are operated was very poor. This is a further indication that the ventilation control is inadequate. It was recommended that this area be cleaned and the bypass damper for the mixers be installed. After these changes have been made, a study will be made to evaluate employee exposure to lead and asbestos on the mixer platform. Air samples should also be taken at the extruders and grinders.

A new exhaust system is to be installed at the weigh-up area where the carts are loaded. This should provide considerably better control than the current system. A down draft of 100 feet per minute into the loading carts will be provided with the newly designed system. The plans for this ventilation system are to be submitted to this office prior to installation.

G.A.S.
G.A.S.

hm

cc: N. A. Trombley



INTER COMPANY CORRESPONDENCE

TO - NAME		DEPT. Mgr., Friction		FILE CODE	May 1, 1969
S. C. Enders		Materials Development		Chemical	Trenton Chemical
FROM - NAME		DEPT.		DIVISION	PLANT/OFFICE
G. A. Sattelmeyer		Industrial Hygiene		Personnel	Highland Park

SUBJECT: Special Industrial Hygiene Survey - Chemical Division,
Friction Material Building

On April 29, 1969, a study was made at the subject plant to evaluate the adequacy of the exhaust system proposed for handling brake lining materials containing lead litharge.

The ventilation system was evaluated at the weigh-up carts where asbestos and the lead litharge is dumped dry into the transfer carts. A side draft hood should be installed in this area of the type discussed with Mr. E. Lombard at the time of the survey. A sufficient volume of air should be exhausted through this hood to provide a capture velocity of 100 feet per minute. Side baffling should be installed to prevent drafts from the open doorway. An exhaust ventilation system should be provided at the scale where the lead litharge is to be weighted. This system should also be designed for a capture velocity of 100 feet per minute.

The ventilation for the Littleford mixers should be installed and operated as soon as possible. Until these are installed respirators should be provided for exposed employees.

The ventilation system for the laboratory grinders is inadequate. A system should be installed which captures asbestos and lead litharge dust at the grinders.

G. A. Sattelmeyer
G. A. Sattelmeyer
Industrial Hygienist

hm

cc: W. F. Bavinger
R. F. Bowers
M. F. Bruton, M. D.
W. T. Diehl
D. L. Eschelbach
W. L. Knapp, M. D.
E. R. Lombard
F. E. Repucci
N. A. Trombley



INTER COMPANY CORRESPONDENCE

TO: NAME

DEPT

DIVISION

FILE
CODEDATE
PLANT

June 19, 1969

FROM: NAME
G. A. Sattelmeyer

Industrial Hygiene Personnel

Highland Park

S. C. Enders

Fric. Mat'l. Oper. Chemical

Trenton

SUBJECT

SPECIAL INDUSTRIAL HYGIENE SURVEY - CHEMICAL DIVISION,
FRICTION MATERIALS BUILDING

The report on your April 29th study to evaluate the adequacy of the exhaust system proposed for handling brake lining materials containing lead litharge has been carefully reviewed. As a result, several changes are being made to improve the exhaust ventilation.

At the location where the asbestos and lead litharge will be dumped dry into the transfer carts, a hood will be installed with a 2' x 2' opening on the top. The transfer carts will be pushed under the hood and the raw materials dumped into the cart through this opening. The capture velocity at the opening will be 100 feet per minute.

A side draft hood with a capture velocity of 100 feet per minute will be installed at the scale in the weigh-up area where the lead litharge will eventually be weighed. At the present time, the litharge is being weighed on the mezzanine in the mixing area on a scale with a side draft hood. The litharge is dumped into the opening on top of the Littleford mixer. The two Littleford mixers in operation have exhaust ventilation installed as you have recommended.

We are continuing to study the problem of providing improved exhaust ventilation for the laboratory grinders. Temporarily we are connecting the grinders to their own separate dust collection system. This will give better control of the dust generated when grinding.

Project approved for further dust collector 7-10-69 E Lombard
Dust collector approved. 10-13-69.

S. C. Enders, General Manager
Friction Materials Operations

SCE/ss

cc: W. F. Bavinger
R. F. Bowers
M. F. Bruton, M.D.
W. T. Diehl
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E. R. Lombard
F. E. Repucci

File Memo
Trenton Chemical Division
June 25, 1969

Subject: Follow-up Survey - Friction Materials Building

On June 24, 1969, a follow-up survey was conducted by the writer to supplement a survey started on June 18, 1969.

meeting satisfactory - 5-6-69
The Lodige-Littleford Mixer was not operating because of a mechanical failure of its automatic feed mechanism. ~~Ripal~~ machines had ~~recently been~~ installed in the new building and were not in production at this time. For these reasons we plan to reschedule a day to obtain samples of airborne asbestos and lead (litharge) dust in the above areas.

sample installed 8-25-69
We were informed that the bypass damper for the exhaust ventilation system of the Lodige-Littleford Mixer is on order. Testing of the exhaust ventilation system of this machine with the extra opening blanked-off indicated that the exhaust ventilation may have to be increased after the damper is installed. Inward air velocity at the filling doors, opened four inches, ranged from 50 to 100 feet per minute.

Day Mixers operating instead of the above mixer emit visible dust into the work environment. During a meeting with Messrs. S. Enders and E. Lombard we recommended that employees wear approved dust respirators while working on the mezzanine in the vicinity of the Day Mixers until the Lodige-Littleford Mixer is reactivated. Also, it was recommended that approved organic respirators be worn by employees transferring brake shoes from the conveyors to drying racks after the adhesive application operations. We were informed that the transfer operation will be automated in the future to eliminate the handling and storage of freshly coated brake shoes. They will be fed directly into drying ovens.

L. R.
L. R.

hm

cc: N. A. Trombley

File Memo
Trenton Chemical Division Plant
August 28, 1969

M. Schuman, State of Michigan Division of Occupational Health, reviewed ventilation control facilities as a follow-up to an industrial hygiene investigation in February 1969.

Friction Materials Building

Ventilation control in the recently installed ~~area~~ brake area appeared to be excellent. The brake lining Littleford mixer operations including weighing of asbestos and lead appeared to be satisfactorily controlled.

Operations involving the transfer of brake lining material to the extruder hopper and removing brake lining slabs from the extruder table require control to reduce exposure of employees to toluene vapor. K. L. Hasselkus, Facilities Engineering Department, informed us that the present plans are to build a platform above the extruder in order to transfer brake lining material from the container to the hopper. This method of transfer would ~~eliminate~~ eliminate shoveling the material into the hopper and would reduce the major source of exposure. We were informed that four to six weeks will be required to determine if this procedure will be satisfactory from a production standpoint.

K. L. Hasselkus, also, indicated that present plans include installation of exhaust ventilation at the end of the extruder table. This will not be installed until the method of material transfer is resolved.

done removed on 9/29/69. A platform will be built above the extruder table to transfer material by gravity. Will eliminate transfer of material by shoveling. A communication

D.L.E.

hm present to *Exhaust, Plant Mgr.* and will be followed
cc: N. A. Trombley

until correction is provided.

TRENTON CHEMICAL PLANT - Stock Counts

Name	Barcode No.	Height Cm	Hop	Roe	Wise	Pay	Stops	km	Month	Eos	Bozo - Ranges
DICKENS - ELOYD	7530	42.5	14.8	43.0	6,550	47	1	45	4	2	1 SOME MISCELLANEOUS
GODEN - WILLIAM	3169	51.0	15.0	4970	10,650	49	4	39	8	-	-
WILLIAMS - WAYMON	9715	48.5	14.0	5,000	5,650	45	2	41	8	3	1 SOME MISCELLANEOUS
PETIT - WILLIAM	1010	49.0	15.5	4620	7,900	57	4	26	10	1	-
De BARRER - BUREAU	0069	48.0	15.2	4870	4,750	40	12	36	10	2	-
GASKEWILL - CHRISTOPHER	9745	49.0	15.0	5,150	6,350	47	2	38	7	9	2

Normal
Ranges

43-46

15.5 gm

4.5 to
million/m

6-8,000

58-

3-5%

21-30

1-3

%

DATE	NAME	BAGG NO	HETERO COUNT	HQB	RBC	WBC	PLT	STAB	LYMPH	EOS	BASE	PERCENT
8-27-64	SANTO - JOE	7677	50	17.0	5.270	7.350		13	21	3	1	
8-27	LUCAS - JAMES	7851	41	13.2	3.930	7.550		5	41	7	1	
8-27	CLIVER - RICHARD	3379	44	14.2	5.320	7.850		-	47	4	2	
8-27	HAETERICK - HLOYD	4116	58	15.5	6.280	13.450		2	39	4	-	
8-27	FEUDRUS - HAROLD	1472	44	13.2	4.280	6.650		-	48	5	-	
8-27	TALLEY - WILLIAM	7783	51.8	16.3	4.950	11.250		2	39	3	1	
8-27	DRUYER - JEROME	6939	48.5	16.0	5.550	12.600		7	36	1	1	
8-27	MERTON - JAMES	5741	47.3	16.0	5.200	11.500		8	27	3	1	
8-27	MOODY - DAVID	6158	48.8	16.8	4.870	7.550		3	26	8	-	

100mm
Lenses

43-46

15.5 gm
4.5 to
milion
6.8 to
mm

58-6
3-5

2-30
4-6

8-1
9-1

10-1

DATE	NAME	BRIDGE NO	HERMAN 11/27	HQB	RBC	WBC	PLAT	LYMPH	MONO	EUS	BASE	REMARKS
8-27-68	SANTO - JOE	7677	50	11/0	5.2%	7.350	58	21	4	3	1	Remains
8-27	LUCAS - JAMES	7551	51	132	3.9%	11.550	42	41	4	7	1	Some MACEO
8-27	CHIVER - RICHARD	3379	44	103	3.3%	7.350	42	47	6	4	2	Some MACEO
8-27	HARTER - LLOYD	416	58	155	6.3%	13.450	51	39	4	4	-	Some MACEO
8-27	PEOPLES - RICHARD	1472	44	133	4.2%	6.150	40	48	7	5	-	Some MACEO
8-27	TALLEY - WILLIAM	7782	51	113	4.8%	11.250	47	39	8	3	1	Some MACEO
8-27	DRUYER - HERMAN	6737	48	160	5.5%	12.600	49	36	6	1	1	Some MACEO
8-27	PHILTON - JAMES	5561	47	100	5.2%	11.150	54	27	8	3	1	Some MACEO
8-27	MOODY - DANIEL	6458	48	168	4.8%	11.650	48	36	8	5	-	Some MACEO

Norma
Ranges

43.46

15.5 gram

4.5 to 5
million

6 - 8.0
Cm mm

58 - 66

3 - 5 %

31 - 30

4 - 6

1 - 3

1 %

DATE	NAME	BRIDGE NO	HEMAN CITIZ	HQB	RBC	WBC	POY	STAS	LYMPH	MCNO	EOS	PLASO	REMARKS
8-27-69	JANIS - JOE	7671	50	11.0	5.20	7.350	58	13	21	4	3	1	
8-27	LUCAS - JAMES	7821	41	13.2	3.70	7.550	42	5	41	4	1	1	3000 MACROCYTOS
8-27	OLIVER - RICHARD	3379	44	14.2	5.320	7.850	42	-	47	5	4	2	3000 MACROCYTOS
8-27	HARTERICK - LLOYD	4116	58	15.5	6.280	13.450	51	2	39	1	4	-	3000 MACROCYTOS
8-27	PEARSON - RUTH	1472	44	13.2	4.280	6.650	40	-	48	2	5	-	3000 MACROCYTOS
8-27	TALLEY - WILLIAM	7783	51.8	16.3	4.850	11.250	47	2	39	8	3	1	3000 MACROCYTOS
8-27	DRUYER - JEROME	6439	48.5	16.0	5.550	12.600	49	7	36	6	1	1	3000 MACROCYTOS
8-27	MELTON - JAMES	5801	47.3	16.0	5.20	11.150	50	8	27	9	3	1	3000 MACROCYTOS
8-27	DOODY - DARRELL	6458	48.8	16.8	4.870	7.550	48	3	36	8	5	-	3000 MACROCYTOS