PLAINTIFF'S EXHIBIT WRG-1731

CAMBRIDGE

TO: D.J. Powling - Easthampton DATE: September 12, 1977

FROM: Peter Kostic SUBJECT: Air Sampling and Evaluation

CC: E.S. Wood
J.W. Wolter
W.R. Wright
J.W. Ashworth - Wilder
R.E. Schneider
F.W. Eaton

03649779

Attached are the results of air sampling for tremolite as conducted by me at the Easthampton plant on August 18, 1977. Computation for Time Weighted Averages (TWA) for the four employee exposures shows the following:

T. Houle	3.81 fibers/cc
R. Sobasko	4.44 fibers/cc
J. Dean	3.81 fibers/cc
J. Belcher	3.88 fibers/cc

Since the exposures were all in excess of the TWA of 2 fibers/cc as prescribed by OSHA standards, it is necessary that all four employees be notified in writing of their exposures. To help you in this regard, we have enclosed (1) The letters of notification, (2)Instructions as to what should be explained to the employees, and (3) Procedures for reducing employee exposure to tremolite. The employees should be notified as soon as possible.

It is my impression that the principal dust sources insofar as the employee exposures are concerned are as follows:

(1) The two Stoner hoppers, one located just beside each bagging station, and neither equipped with water spray or local exhaust ventilation.

(2) The two cyclone drops, neither of which are equipped with local exhaust ventilation. These are also located within close proximity of the bagging stations.

Two of the four engineering samples, EH-20 taken in the furnace room, between the furnaces, and EH-21 taken on the Stoner deck, between the cyclones, also exceeded the 2 fibers/cc OSHA limit. These two areas should be checked to make sure that Stoner exhaust is properly maintained, that there are no leaks in the furnaces or ductwork, and that good housekeeping practices are observed.

The installation of an enclosed screw conveyor, to transport Stoner waste and cyclone fines to an outdoor covered hopper, as you indicated is soon to be done, should substantially reduce the quantity of airborne particulate matter.

03649780

Peter Kostic

Peter Kostic

PK:bp

Attachment

15051103

NEERING SAMPLES

CONFIDENTIAL

GRACE

AIR SAMPLING RECORD SHEET

PLANT LOCATION EASTHAMPTON, MASS.
CONTAMINANT FIBERS
SAMPLING BY P. Foote
DATE: 8-18-77

SAMPLING CONDITIONS:
OUTSIDE CLEAR
INSIDE DRAFT MODERATE
VISIBLE DUST SLIGHT

HOUSEKEEPING:
GOOD

0364978

Sample Number	Employee Name	Job Location and Description	Remarks	Pump Number	Pump Off	Pump On	Sampling Time	Flow Rate	Total Sampled Volume	Lab Evaluation
EH-20	—	FURNACE ROOM BETWEEN FURNACES		IC6-4	9:07	8:37	30 MIN	1.5 LPM	45 L	3.04
EH-21	—	STONER DECK - BETWEEN CYCLONES		IC6-1	11:22	10:49	33 MIN	"	49.5L	4.28
EH-22	—	CENTER OF WAREHOUSE		IC6-8	1:40	1:00	40 MIN	"	60 L	0.80
EH-23	—	BAGGING AREA-BETWEEN "O" AND MK STATIONS		IC6-8	3:02	2:32	30 MIN	"	45L	1.37

ENGINEERING TEST SAMPLE

Additional Comments: POSSIBLE DUST SOURCES — STONER HOPPERS, NO EXHAUST, NO WATER SPRAY; CYCLONE DROPS, NO EXHAUST; DROPPING OF OPEN BAGS OF EXP. PRODUCT ON BAG SEALING CONVEYOR BELT.

Laboratory Evaluation By: Nancy Cataldo
Date: 9-1-77

1505104

FINAL SAMPLES

GRACE

AIR SAMPLING RECORD SHEET

CONFIDENTIAL

PLANT LOCATION EASTHAMPTON, MASS.
CONTAMINANT FIBERS
SAMPLING BY [redacted]
DATE: 8-18-77

036497B2

SAMPLING CONDITIONS:
OUTSIDE CLEAR
INSIDE DRAFT MODERATE
VISIBLE DUST SLIGHT

HOUSEKEEPING: GOOD

Sample Number	Employee Name	Job Location and Description	Remarks	Pump Number	Pump Off	Pump On	Sampling Time	Flow Rate	Total Sampled Volume	Lab Evaluation
EH-1	T. HOULE	BAGGING ATTIC FILL "A" FURNACE	LIBBY #1	ICG-8	8:45	8:25	20 MIN.	1.5 LPM	30 L	4.79
EH-2	R. SOBASKO	BAGGING ATTIC FILL "A" FURNACE	" "	106-1	8:51	8:29	22 MIN	"	33 L	4.35
EH-3	J. DEAN	OPER. LIFT TRUCK-LOAD ATTIC FILL INTO R.R. CAR		106-2	9:03	8:33	30 MIN	"	45 L	4.41
EH-4	T. HOULE	AS EH-1		ICG-1	9:45	9:27	18 MIN	"	27 L	3.55
EH-5	R. SOBASKO	AS EH-2		ICG-8	9:49	9:31	18 MIN	"	27 L	6.59
EH-6	J. DEAN	AS EH-3		106-2	10:02	9:37	25 MIN	"	37.5 L	2.92
EH-7	T. HOULE	AS EH-1		ICG-8	10:55	10:40	15 MIN	"	22.5 L	4.56
EH-8	R. SOBASKO	AS EH-2		ICG-2	10:56	10:41	15 MIN	"	22.5 L	5.47
EH-9	J. DEAN	AS EH-3		ICG-4	11:06	10:46	20 MIN	"	30 L	2.74
EH-10	T. HOULE	AS EH-1		ICG-1	1:25	1:10	15 MIN	"	22.5 L	4.56
EH-11	R. SOBASKO	AS EH-2		ICG-2	1:27	1:12	15 MIN	"	22.5 L	3.95
EH-12	J. BELCHER	MIXING/BAGGING MK-4	LIBBY #3	ICG-4	1:36	1:14	22 MIN	"	33 L	4.77

Additional Comments: RUNNING ATTIC FILL OFF "A" AND "B" FURNACES TO 1:14 p.m. RUNNING THE SAME PLUS MONOKOTE AFTER 1:14 p.m. (MODEL A FURNACES)

Laboratory Evaluation By: Nancy Catello
Date: 9/1/77

PERSONNEL SAMPLE