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Suite 903 E
Dallas TX 75247
214 631 4919



July 3, 1984

Mr. Terry Lohman
Plant Manager
J-M Manufacturing
Denison, TX

Re: ESIS Contract 84E0096

Dear Mr. Lohman

On May 14, 15, and 16, 1984, I visited your plant to conduct an Environmental Health Survey. You will find the results of the Environmental Health Survey attached in a full report. Results reported are an indication of the environmental health conditions that existed at the time of the survey.

I wish to thank you and your staff for the courtesy and cooperation extended during the course of my visit.

If you should have questions about the report, or if I can provide further assistance with your environmental health program, do not hesitate to contact me at (713) 933-1826 or (214) 631-4919.

Very truly yours,

Aileen Teng
Certified Industrial Hygienist
Loss Control Services

AT/st

cc: Dr. E. Edward Wang, Ph.D.; J-M Manufacturing Co., Inc.; A/C Pipe Corp.; 1051 Sperry Rd., Stockton, CA 95206
Ms. Beth Ingleston; Alexander & Alexander of New York; 1185 Avenue of the Americas, New York, New York 10013

D 004873

JUL 05 1984

ENVIRONMENTAL HEALTH REPORT

PREPARED FOR:

J-M Manufacturing
Denison, TX

POLICY NUMBER:

ESIS 84E0096

PREPARED BY:

Aileen Teng
Certified Industrial Hygienist
Loss Control Services, Inc.

ACCOMPANIED BY:

Terry Lohman
Plant Manager
J-M Manufacturing

DATES OF SURVEY:

May 14, 15 and 16, 1984

D 004874

JUL 05 1984

ENVIRONMENTAL HEALTH REPORT

INTRODUCTION

On May 14, 15 and 16, 1984, an environmental health survey was conducted at J-M Manufacturing, Denison, Texas to evaluate the employee exposure to asbestos fibers associated with the manufacture of asbestos cement pipes. The survey was conducted at the request of J-M Manufacturing as part of an on-going asbestos monitoring program.

The standards, guidelines, methods, results and discussion pertinent to this report follow.

STANDARDS & GUIDELINES

The results of this report are based on current OSHA standards and/or accepted state of the art industrial hygiene practices to give reasonable protection to the health and well-being of your employees.

METHODS

Air sampling and analyses were conducted, using the following methods:

<u>Air Contaminant</u>	<u>Vacuum Source</u>	<u>Flow Rate</u>	<u>Collection Medium</u>	<u>Sampling & Analyses Methods</u>
Asbestos	Du-Pont P-2500 Sampling Pumps & MSA Model G Sampling Pumps	1.45 <u>-1.54 lpm</u>	Open face AA filters	NIOSH P & CAM 239; PCM

lpm: liters per minute

PCM: Phase Contrast Microscopy, Porton Reticle; 450 x magnification.

Unless otherwise stated, samples were collected in the workers' breathing zones to obtain samples indicative of actual employee exposure. Sampling pumps were calibrated prior to and after the sampling period.

All analyses were performed by Environmental Health Laboratory which is accredited by the American Industrial Hygiene Association.

RESULTS

Results of asbestos sampling are presented in Table I.

DATE 5/14/84

ASBESTOS AIR SAMPLING DATA

JOB DESCRIPTION	EMPLOYEE NAME	UNITS	AIR CONC.	FEDERAL STANDARD	TWA (1)	SAMPLE TIME (MIN.)	SAMPLE VOLUME (LITERS)	COMMENTS
10' Curer	Roger Carr	fibers/ cc	0.087	2	0.087	202	311.08	
Willow Operator	Alan Morrison	fibers/ cc	0.12	2	0.12	209	313.5	
Mono Saw Operator	David White	fibers/ cc	0.12	2	0.12	201	309.54	
Large Coupling #347 Lathe Operator	Mark Johnson	fibers/ cc	0.055	2	0.055	205	315.7	
Steam Pipe Operator	Lewis Ines	fibers/ cc	<0.054	2	<0.054	215	322.5	

(1) T.W.A. - The Time Weighted Average concentration for a normal 8 hour workday. This determination is based on the assumption that the air concentration during sampling period is representative of the exposure level for the entire shift.

J-M MANUFACTURING, DENISON, TEXAS

ASBESTOS AIR SAMPLING DATA

DATE 5/14/84

JOB DESCRIPTION	EMPLOYEE NAME	UNITS	AIR CONC.	FEDERAL STANDARD	TWA (1)	SAMPLE TIME (MIN.)	SAMPLE VOLUME (LITERS)	COMMENTS
13' Utility Operator	Charles Moore	fibers/cc	0.21	2	0.21	238	297.5	
13' Control Operator	Charles R. Wilson	fibers/cc	0.21	2	0.21	177	247.8	
13' Tender	A. R. Dawson	fibers/cc	0.25*	2	0.25*	258	397.32	
13' Head Curer	Mitchell Troxtell	fibers/cc	0.12	2	0.12	237	364.98	
10' Control Operator	Jimmy Lang	fibers/cc	0.064	2	0.064	222	341.88	

(1) T.W.A. - The Time Weighted Average concentration for a normal 8 hour workday. This determination is based on the assumption that the air concentration during sampling period is representative of the exposure level for the entire shift.

*Sample was so heavily laden with particulate matter that some fibers could have been obscured during the count; therefore, results may be low.

D 004877

J-M MANUFACTURING, DENISON, TEXAS

ASBESTOS AIR SAMPLING DATA

DATE 5/14/84

JOB DESCRIPTION	EMPLOYEE NAME	UNITS	AIR CONC.	FEDERAL STANDARD	TWA (1)	SAMPLE TIME (MIN.)	SAMPLE VOLUME (LITERS)	COMMENTS
UCL #2 Operator	Wayne Melvin	fibers/cc	<0.081	2	<0.081	140	215.6	The operator also worked on the boring machine during the period of sampling.
Fitting Lathe Operator	Kenneth Campbell	fibers/cc	<0.066	2	<0.066	173	266.42	
Bend Saw Operator	Linda Johnson	fibers/cc	0.067	2	0.067	186	286.44	
Large Coupling Cut-Off Saw Operator	S. Hines	fibers/cc	0.13	2	0.13	178	274.12	

(1) T.W.A. - The Time Weighted Average concentration for a normal 8 hour workday. This determination is based on the assumption that the air concentration during sampling period is representative of the exposure level for the entire shift.

D 004878

DATE 5/15/84

ASBESTOS AIR SAMPLING DATA

JOB DESCRIPTION	EMPLOYEE NAME	UNITS	AIR CONC.	FEDERAL STANDARD	TWA (1)	SAMPLE TIME (MIN.)	SAMPLE VOLUME (LITERS)	COMMENTS
Slash Saw Operator	Paul Lashley	fibers/ cc	<0.048	2	<0.048	235	361.9	
UCL #1 Operator	William McGee	fibers/ cc	0.11	2	0.11	218	327.	
Mono-Lathe Operator	David White	fibers/ cc	0.054	2	0.054	211	324.94	
Crew Leader	Lee Brown	fibers/ cc	<0.054	2	<0.054	210	323.4	
Tool Room Attendant	Jerry Bruce	fibers/ cc	<0.052	2	<0.052	218	335.72	

(1) T.W.A. - The Time Weighted Average concentration for a normal 8 hour workday. This determination is based on the assumption that the air concentration during sampling period is representative of the exposure level for the entire shift.

DATE 5/15/84

ASBESTOS AIR SAMPLING DATA

JOB DESCRIPTION	EMPLOYEE NAME	UNITS:	AIR CONC.	FEDERAL STANDARD	TWA (1)	SAMPLE TIME (MIN.)	SAMPLE VOLUME (LITERS)	COMMENTS
MOA Operator	Ronnie Harp	fibers/cc	0.11*	2	0.11*	219	337.26	
UPL #2 Operator	Larry Henderson	fibers/cc	<0.053	2	<0.053	215	331.1	
UPL #2 Hydrotester	Kevin Hanna	fibers/cc	<0.054	2	<0.054	212	326.48	
Warehouse -Shipping Worker	Freddie Wright	fibers/cc	<0.046	2	<0.046	252	378	
UPL #2 -Unit Loader #1	Billy Corbin	fibers/cc	<0.049	2	<0.049	229	352.66	

(1) T.W.A. - The Time Weighted Average concentration for a normal 8 hour workday. This determination is based on the assumption that the air concentration during sampling period is representative of the exposure level for the entire shift.

*Sample was so heavily laden with particulate matter that some fibers could have been obscured during the count; therefore, results may be low.

J-M MANUFACTURING, DENISON, TEXAS

DATE 5/15/84

ASBESTOS AIR SAMPLING DATA

JOB DESCRIPTION	EMPLOYEE NAME	UNITS	AIR CONC.	FEDERAL STANDARD	TWA (1)	SAMPLE TIME (MIN.)	SAMPLE VOLUME (LITERS)	COMMENTS
Sweeper Operator	Lola McKinney	fibers/cc	0.11	2	0.11	213	308.85	
Big Truck Operator	B. W. Grodin	fibers/cc	<0.048	2	<0.048	235	361.9	
Mechanics	M. E. Abernathy	fibers/cc	0.061	2	0.061	223	343.42	
Platform Driver	Bill Rogers	fibers/cc	<0.049	2	<0.049	229	352.66	
Coupling Test- ing Area -General Labor	Ron Perkins	fibers/cc	<0.052	2	<0.052	216	332.64	

(1) T.W.A. - The Time Weighted Average concentration for a normal 8 hour workday. This determination is based on the assumption that the air concentration during sampling period is representative of the exposure level for the entire shift.

D 004881

J-M MANUFACTURING, DENISON, TEXAS

ASBESTOS AIR SAMPLING DATA

DATE 5/15/84

JOB DESCRIPTION	EMPLOYEE NAME	UNITS:	AIR CONC.	FEDERAL STANDARD	TWA (1)	SAMPLE TIME (MIN.)	SAMPLE VOLUME (LITERS)	COMMENTS
Moulder	Paul Franks	fibers/ cc	0.058	2	0.058	205	315.7	
Boring Mill Operator	Wayne Melvin	fibers/ cc	<0.059	2	<0.059	193	297.22	

(1) T.W.A. - The Time Weighted Average concentration for a normal 8 hour workday. This determination is based on the assumption that the air concentration during sampling period is representative of the exposure level for the entire shift.

D 004882

ASBESTOS AIR SAMPLING DATA

JOB DESCRIPTION	EMPLOYEE NAME	UNITS:	AIR CONC.	FEDERAL STANDARD	TWA (1)	SAMPLE TIME (MIN.)	SAMPLE VOLUME (LITERS)	COMMENTS
UPL #1 Operator	Cecil Bell	fibers/ cc	<0.049	2	<0.049	230	354.2	The operator also, worked at coupling testing area.
UPL #1 Loader	Barry Sims	fibers/ cc	0.066	2	0.066	224	344.96	The operator also worked at slash saw area.
UPL #2 Inspector	James Walsh	fibers/ cc	0.071	2	0.071	216	332.64	
Small Cut-Off Saw	Billy Hall	fibers/ cc	0.15	2	0.15	212	326.48	
Quality Control Room	(Area Sample)	fibers/ cc	<0.043	2	<0.043	263	405.02	

(1) T.W.A. - The Time Weighted Average concentration for a normal 8 hour workday. This determination is based on the assumption that the air concentration during sampling period is representative of the exposure level for the entire shift.

J-M MANUFACTURING, DENISON, TEXAS

ASBESTOS AIR SAMPLING DATA

DATE 5/16/84

JOB DESCRIPTION	EMPLOYEE NAME	UNITS	AIR CONC.	FEDERAL STANDARD	TWA (1)	SAMPLE TIME (MIN.)	SAMPLE VOLUME (LITERS)	COMMENTS
In-Process Inspector	Mark McDaniel	fibers/ cc	0.14	2	0.14	219	337.26	
General Labor - Operating Salvage Grinder	McCliver	fibers/ cc	0.24*	2	0.24*	238	357	
Salvage Truck Driver	Johnny Crain	fibers/ cc	0.085	2	0.085	167	257.18	

(1) T.W.A. - The Time Weighted Average concentration for a normal 8 hour workday. This determination is based on the assumption that the air concentration during sampling period is representative of the exposure level for the entire shift.

*Sample was so heavily laden with particulate matter that some fibers could have been obscured during the count; therefore, results may be low.

ENVIRONMENTAL HEALTH REPORT

DISCUSSION

Air samples were collected from within the breathing zone of the employees. One sample was taken for each job classification. The UCL #2, radial drill, nipple lathe, perforator drill, K & C lathe and molding swing saw were not in operation during the survey, therefore, samples could not be taken for these operations.

As can be seen from the sample results presented in the Results section, all the exposure levels were within OSHA 8-hour permissible exposure limit of 2 fibers per cubic centimeter of air. It should be noted that OSHA has issued an emergency temporary standard on asbestos which lowered the permissible exposure limit to 0.5 fibers per cubic centimeter. The emergency rulemaking was challenged in court by the Asbestos Information Association which obtained a stay on the implementation of the rule pending judicial review. The exposure levels were also within the proposed emergency standard for asbestos.

There were three samples which were so heavily laden with particulate matter that some fibers could have been obscured during count. Therefore, the reported results may be low. In order to obtain more accurate exposure levels, more samples with shorter duration on each sample should be taken at these locations.

J-M Manufacturing Company, Inc.

Internal Correspondence

To: E. E. Wang, Stockton

Date: August 11, 1983

From: W. R. Arant, Denison

W.R. Arant

Copies: A. M. Curry, W. G. Burnett

Subject: YOUR LETTER OF JULY 5, 1983

Asbestos related lung disease is certainly a problem that we are all concerned with, especially as it relates to cigarette smokers exposed to asbestos fibers in the work place.

In 1976 the Denison Plant instituted a multi-phase no-smoking program. The end result was to eliminate smoking anywhere on company property.

The local union, by a written grievance, challenged the validity of our no-smoking policy. This dispute eventually ended in arbitration before David H. Brown, Arbitrator. On December 6, 1976, Mr. Brown rendered his decision in favor of the Union. As a result of his decision, the company is required to allow smoking in certain areas of the plant.

In addition to the above mentioned arbitration case, our union contract contains certain restrictive language that would prevent us from transferring smokers to non-asbestos areas if they had seniority and qualifications to remain on their present jobs.

It is our intent to eventually eliminate smoking at the Denison Plant through hiring practices that disqualify smokers.

WRA/1a

D 004886

AUG. 16 1983