

OPERATIONS MANAGEMENT AGREEMENT

Date: December 30, 1983.

Parties: J-M Manufacturing Company, Inc., a PVC pipe manufacturing company incorporated in Delaware state, USA, and herein referred to as "Trustee", and J-M A/C Corporation, an asbestos pipe manufacturing company incorporated in Delaware state, USA, and herein referred to as "Truster", both are headquartered in Stockton, California, have entered into agreement in connection to the trust of operations management and related cost charges.

Recitals:

1. The Trustee has (1) eight plants located in Butler, North Carolina; Denison, Texas; Franklin, Pennsylvania; Green Cove Springs, Florida; McNary, Oregon; Pueblo, Colorado; Stockton, California; and Wilton, Iowa; (2) complete teams of manufacturing management staff, selling forces, marketing management staff, corporate administration staff including production, engineering and development, accounting, treasury, employee relations, data processing, general affairs, and president office; (3) computing facilities, telephone systems, information systems and software systems, telecopier, buildings and offices, parking lots and storage yards; and (4) purchasing functions.

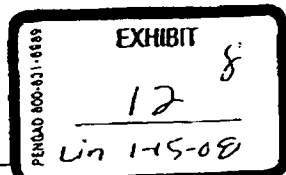
2. The Truster has only two plants located in Stockton, California and Denison, Texas, with limited asbestos pipe production machines and production workers, but does not have plant managers and manufacturing management staff, other operations facilities and various manpower and management systems.

3. Since these two companies are located in the same place and agree to use the same sets of manpower, facilities, and systems belonging to the Trustee. The Truster agrees, before it has its own corporate administration staff, selling forces, marketing management staff, plant managers and manufacturing management staff, and other necessary facilities, manpower and systems, to be charged by the Trustee the necessary costs and expenses and agrees to the related agreements as specified by the following:

Section 1. Manufacturing Expenses

(1.) Direct Costs: The maintenance labor costs (by work hours basis), utility costs (by meters) and other costs directly used for the asbestos pipe plants will be charged to the Truster.

(2.) Indirect Costs: The salaries, wages and related expenses for plant managers and their management staff, depreciation expenses and general affairs expenses will be shared by the Trustee and Truster on the basis of 50% for production value ratios and 50% for direct labor hours ratios.



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Section 2. Selling Expenses

(1.) Direct Costs: Freight, insurance expenses for exports and sales commission for asbestos pipe selling will be directly charged to the Trustee.

(2.) Indirect Costs: Salaries, wages and related expenses for salesmen and sales managers, sales expenses and other related selling expenses will be proportionally charged to the Trustee based on the ratio of monthly sales amounts.

Section 3. Corporate Administration Expenses

All the salaries, wages and related expenses for corporate administration staff including production, engineering and development, accounting, treasury, employee relations, data processing, general affairs and president office will be equally (50% - 50%) shared by the Trustee and the Trustee.

Section 4. Financial Expenses

The interest expenses will be charged to Trustee by the Trustee based on the monthly balances of inter-company accounts due to the Trustee multiplied by the average bank loan interest rates.

Section 5. Lease Expenses

(1.) The Trustee will charge the Trustee \$50,000 per month for the unlimited uses of computer related equipment, telephone system, telecopier, information systems and software systems.

(2.) The Trustee will charge the Trustee \$3,000 per month for the unlimited uses of Headquarters building and parking lot.

(3.) The Trustee will charge the Trustee \$13,000 per month for the unlimited uses of storage yards, including Denison plant's \$5,000 per month, Stockton plant's \$5,000 per month and Buena Park's \$3,000 per month.

Section 6. Purchasing Charge

The Trustee will charge the Trustee 1.7c per pound of the asbestos pipe materials purchased by the Trustee's purchasing department based on the actual receiving quantity at the year end for that year.

Section 7. Written Notice

This agreement contemplates the highest good faith and fair dealing between the parties. All revisions on this agreement in connection to the cost charges should be agreed by both parties. All notices hereunder shall be in writing and delivered by person or sent to by registered mail to the Trustee:

J-M A/C Corporation
1051 Sperry Road
Stockton, California 95206

and to the Trustees:

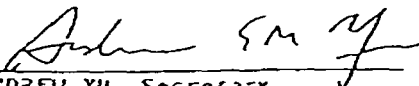
J-M Manufacturing Company, Inc.
1051 Sperry Road
Stockton, California 95206

Section 8. California Laws

This agreement is executed under and in conforming with the laws of the state of California and is to be governed hereby.

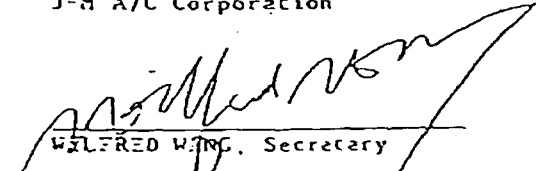
IN WITNESS WHEREOF, the parties hereto have executed this agreement in duplicate as of the day and year first above written.

(Seal)


ANDREW YU, Secretary

J-M A/C Corporation

(Seal)


WILFRED WANG, Secretary
J-M Manufacturing Company, Inc.

J-M Manufacturing Co., Inc.

Internal Correspondence

To : ~~C. G. Stelchek, Denison~~
D. W. Wilkinson, Stockton
From : E. E. Wang, HQ
Copies : T. E. Lohman, C.J. Chen, W. Wang
Subject : OSHA'S NEW ASBESTOS STANDARD

Date: July 11, 1986

As I mentioned earlier in my memo dated 6-19-86, the Federal OSHA has adopted stricter asbestos standards to protect workers from exposure to asbestos. The new standard reduces employee exposure to asbestos to 0.2 fiber per cubic centimeter of air (f/cc) averaged over an 8-hour day. The new standard also sets an action level; it is 0.1 f/cc averaged over 8 hours. If this level is exceeded, employers must begin compliance activities such as air monitoring, employee training, and medical surveillance.

If exposures are above the action level, periodic monitoring must be conducted at intervals no greater than every 6 months. In addition, the employer must initiate monitoring whenever there has been a change in the production, process, control equipment, personnel or work practices that may result in new or additional exposures to asbestos.

The employer must establish a regulated area in those areas where airborne concentrations of asbestos exceed the permissible exposure limit. Only authorized personnel may enter regulated areas. No smoking, eating, drinking, or applying cosmetics is permitted in regulated areas.

Respirators shall be used in work situations where feasible engineering and work practice controls are not yet sufficient to reduce exposure to or below the exposure limit.

This new standard shall become effective July 21, 1986. I have asked the Federal OSHA to send me copies of the new standard. Upon receipt of them, I will forward one copy to you for your review/file.

E. E. Wang



MATERIAL SAFETY DATA SHEET

PREPARED BY

Dr. E.E. Wang

DATE

1-30-87

SECTION I

Manufacturer's Name, Address, and Phone Number

J-M A/C PIPE CORPORATION

1051 Soerry Road, Stockton, CA 95206

(209) 982-1500

Product Trade Name and Synonyms

TRANSITE Pipe

Chemical Name and Synonyms

Asbestos-Cement Pipe

Chemical Family

Mineral

Formula

N/A

SECTION II: INGREDIENTS

Substance	CAS #	WT. %
Asbestos (Chrysotile) * 8	12001-29-5	11
Asbestos (Crocidolite) * 10	1332-21-4	4
Silica (Crystalline)	14808-60-7	35
Portland Cement	None	50

SECTION III: OCCUPATIONAL EXPOSURE LIMITS

Substance	OSHA's PEL	ACGIH's TLV	Listed as Carcinogen
Asbestos (Chrysotile)	0.2 f/cc	2f/cc	Yes
Asbestos (Crocidolite)	0.2f/cc	0.2f/cc	Yes
Silica (Crystalline) (10* or 30** mg/M ³) / (%SiO ₂ +2)		Same as PEL	No
Portland Cement	50 mppcf	5* or 10**mg/M ³	No
*As respirable dust; **As total dust			
*** Asbestos fibers measured are those longer than 5 micrometers.			
Note: PEL and TLV refer to 8-hr. time weighted average			

SECTION IV: PHYSICAL DATA			
Boiling Point (°F)	N/A	Specific Gravity (H ₂ O=1)	1.85
Vapor Pressure (mm Hg)	N/A	Percent, Volatile by Volume (%)	N/A
Vapor Density (Air = 1)	N/A	Evaporation Rate (=1)	N/A
Solubility in Water	N/A		
Appearance and Odor <u>Gravish-white pipe; odorless</u>			

SECTION V: FIRE AND EXPLOSION HAZARD DATA							
Flash Point (Method Used)	<u>N/A</u>	Flammable Limits	<table border="1"> <tr> <td>Lel</td> <td>Uel</td> </tr> <tr> <td>N/A</td> <td>N/A</td> </tr> </table>	Lel	Uel	N/A	N/A
Lel	Uel						
N/A	N/A						
Extinguishing Media <u>N/A</u>							
Special Fire Fighting Procedures <u>N/A</u>							
Unusual Fire and Explosion Hazards <u>None</u>							

SECTION VI: REACTIVITY DATA			
Stability		Conditions to Avoid <u>Power driven saws with</u>	
Stable	Unstable	<u>abrasive discs should NOT be used for dry cutting or beveling</u>	
X		<u>asbestos-cement pipe. Always avoid creating and breathing</u>	
Incompatability (Materials to Avoid)		<u>dust</u>	
<u>None</u>			
Hazardous Decomposition Products <u>None</u>			
Hazardous Polymerization			
May Occur		Will Not Occur	
		X	
Conditions to Avoid <u>- N/A</u>			

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SECTION VII: HEALTH HAZARD DATA (See also Section XII)

Effects of Overexposure

Inhalation of excessive crystalline silica may cause silicosis. Overexposure to airborne asbestos fibers may cause pulmonary diseases (asbestosis, mesothelioma, pleural plaques, and lung cancer). Smoking greatly increases cancer risk from asbestos exposure. The descriptions and symptoms of the above mentioned diseases are given in Section XI.

Emergency and First Aid Procedures

Inhalation: Move person to fresh air.

Eyes: Wash with water for 15 minutes.

Skin: Clean area of contact.

Ingestion: Seek medical attention if necessary.

SECTION VIII: SPILL OR LEAK PROCEDURES

Steps to be Taken in Case Material is Released or Spilled

Pipe fragments and installation debris must be handled in a manner which avoids airborne dispersion of asbestos dust. Use wet or vacuum method for clean-up.

Waste Disposal Method

Comply with all applicable local, state, and federal regulations.

SECTION IX: SPECIAL PROTECTION INFORMATION		
Respiratory Protection <u>Not required when recommended work practices are followed.</u>		
Ventilation	Local Exhaust <u>N/A</u>	Special <u>N/A</u>
	Mechanical <u>N/A</u>	Other <u>N/A</u>
Protective Gloves <u>Not required</u>		Eye Protection <u>Not required</u>
Other Protective Equipment <u>Not required when recommended work practices are followed.</u>		

SECTION X: SPECIAL PRECAUTIONS (See also Section XII)	
Precautions to be Taken in Handling and Storing	
<u>Follow "Recommended Work Practices for A/C Pipe" published by A/C Pipe Producers Association.</u> 	
Other Precautions <u>All tools which may release asbestos fibers in excess of the exposure limits shall be provided with local exhaust ventilation systems.</u>	

REMARKS <u>This information is given without warranty, representation, inducement or license of any kind, except that it is accurate to the best of our knowledge or obtained from sources believed by us to be accurate, and we do not assume any legal responsibility for use or reliance upon same.</u>

SECTION XI

HEALTH HAZARDS - DESCRIPTIONS AND SYMPTOMS

SILICOSIS

A disease due to breathing air containing crystalline silica, characterized anatomically by generalized fibrotic changes and the development of miliary nodulations in both lungs.

The symptoms include gradually increasing difficulty in breathing and non-productive cough, shortness of breath, decreased chest expansion, lessened capacity for work, absence of fever, and increased susceptibility to tuberculosis.

ASBESTOSIS

This is a chronic lung disease in which the lungs become scarred as a result of the biological reaction to inhaled asbestos. Damage to the lungs is irreversible and progressively disabling.

Affected individuals experience shortness of breath on exertion. Examining physicians may note a bluish color of the lips and tongue, an alteration in the nails, and hear crackles at the base of the lungs. The chest x-ray is found to have an increase in the profusion of small irregular opacities and deterioration may be noted in tests of lung function.

Although asbestosis does not necessarily lead to lung cancer, individuals with this disease are at high risk to develop cancer.

Mesothelioma

This is a malignant tumor of the thin membranes lining the chest and abdominal cavities. It is an extremely rare cancer in the general population and is almost invariably associated with asbestos exposure. It is a rapidly progressive disease leading to death within a year or two of appearance.

The first symptom may be shortness of breath or pain in the wall of the chest aggravated by deep breathing or abdominal pain varying from vague discomfort to severe spasms.

Pleural Plaques

The pleura are the membranes lining the chest cavity. Asbestos fibers reaching this cavity may produce scarring of these membranes. This is visible in the chest x-ray as a pleural thickening. If calcium salts become deposited in these areas, then pleural plaques are produced. Pleural thickening is a common complication of pulmonary asbestosis and these x-ray signs are often used as markers of asbestos exposure.

A/C PIPE

Lung Cancer

The symptoms include a cough, or a change in the cough habit, chest pain, and occasionally blood-streaked sputum coughed up from the lungs.

The asbestos-related lung cancer occurs more frequently in the lower lobes. Initial diagnosis is by chest x-ray.

SECTION XII

PRECAUTIONS FOR HANDLING ASBESTOS-CONTAINING PIPES

(Hygienic Practices)

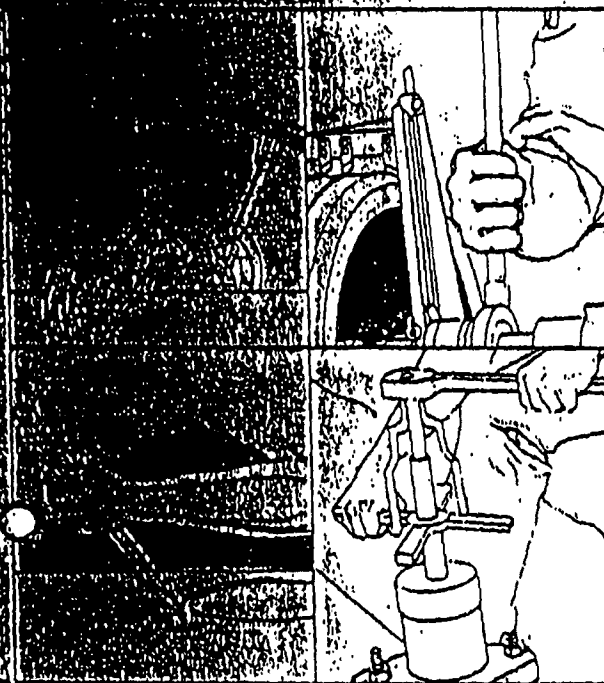
In case of cutting or beveling asbestos-cement pipes, all hand or power-operated tools which may produce or release asbestos fibers should be provided with local exhaust ventilation systems.

Asbestos-containing material should be handled in a wet state sufficient to prevent the emission of airborne fibers.

Workers engaged in the demolition of asbestos-containing pipes should be provided with appropriate respiratory equipment approved by the Bureau of Mines or the National Institute for Occupational Safety and Health and special clothing such as coveralls or similar whole body clothing.

Asbestos-containing waste should be collected and disposed of in sealed impermeable bags, or other closed, impermeable containers.

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Recommended Work Practices for A/C Pipe



A/C Pipe Producers Association

1600 Wilson Boulevard, Suite 100

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Introduction

The Occupational Safety and Health Act in the United States and similar laws in Canada and other countries were enacted to ensure so far as possible, every worker a safe and healthy work place. This legislation is far-reaching. It covers millions of employees and nearly every employer, including those involved in utility duct and pipeline construction.

In keeping with the spirit and intent of these laws, the asbestos-cement pipe industry is cooperating with labor by disseminating information regarding the potential hazards of exposure to airborne asbestos and the means of reducing such potential hazards through good work practices.

Good work practices is what this booklet is about. The recommendations that appear on the following pages are the result of field testing and were developed through study.* They are intended as general guides to achieve safe and clean job site conditions when working with asbestos-cement (A/C) pipe products. Since field conditions will vary, adherence to these work practices will not necessarily guarantee compliance with national, state or local regulations. Questions relating to compliance should be directed to appropriate regulatory agencies.

The A/C Pipe Producers Association believes this booklet will be helpful to engineers, superintendents, contractors, foremen and laying crews in understanding and explaining established procedures for the safe handling of A/C pipe products.

Asbestos and Health

As you are aware, airborne asbestos fiber has been identified as a possible health hazard. Very few things to which we are exposed are "zero risks." But like the automobile, electricity and x-rays, there are non-harmful ways to use potentially harmful things.

Generally, asbestos-cement (A/C) pipe products contain less than 20% asbestos. The asbestos fibers are not free, but encapsulated or "locked-in" the cement binder like reinforcing rods in concrete. The distinction between "free" and "bound" asbestos is extremely important. First of all, it determines the probability of fiber release, which in turn, directly relates to the probability of risk. More importantly, it explains clearly and simply why A/C pipe is a non-harmful use of asbestos.

Experience has shown that minimizing exposure to airborne asbestos dust is the only effective method of preventing asbestos-related diseases. Recommended work practices are the best assurance of providing exposure safeguards for yourself and your employees.

*See "Asbestos Exposures During the Cutting and Machining of Asbestos-Cement Pipe," report prepared by Equitable Environmental Health Inc., March, 1977 and "News from IAC," reporting on a survey by the Occupational Hygiene

Summary of OSHA Asbestos Standard

The Occupational Safety and Health Act was signed into law on December 29, 1970, and became effective on April 28, 1971. On December 7, 1971, the Secretary of Labor issued a temporary standard for exposure to asbestos dust. As required by the Act, a permanent standard for asbestos exposure was promulgated six months later.

Under the current standard, it is the employer's responsibility to assure that exposure of employees to airborne concentrations of asbestos fibers does not exceed the following "permissible exposure levels":

- a. Eight hour time weighted average: Two fibers, longer than 5 micrometers, per cubic centimeter.
- b. Ceiling concentrations: Ten fibers, longer than 5 micrometers, per cubic centimeter.

In October, 1975, OSHA proposed a revision to the current standard which would reduce the eight hour time weighted average exposure to 0.5 fibers per cubic centimeter of air and ceiling concentrations to 5.0 fibers per cubic centimeter. In their notice, OSHA stated that a separate "construction industry standard" would be issued to cover workers who handle asbestos-containing products. This work practice booklet will be revised as necessary to reflect any changes the construction industry standard may necessitate.

The work practices recommended in this booklet are based on data for "peak dust concentrations" representing short time periods of maximum exposure. Field cutting and machining operations involving A/C pipe are normally infrequent and of short duration. Using these recommended work practices, it is improbable that field personnel would be exposed in a typical working day to levels exceeding the eight hour time weighted average.

Products and Operations

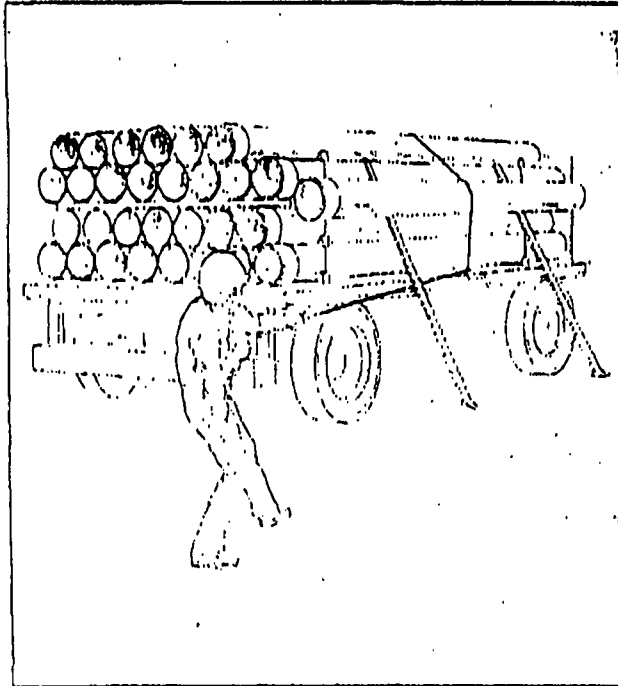
Types of A/C Pipe Products covered by these work practices include:

- "Class" Pressure Pipe
- "Transmission" Pressure Pipe
- Pressure Sewer Pipe
- Gravity Sewer Pipe
- Building Sewer Pipe
- Storm Drain Pipe
- Perforated Underdrain Pipe
- Electrical Conduit
- Telephone Duct
- Air Duct

Operations to which these work practices apply include:

- Shipping, Receiving and Handling
- Cutting
- Machining
- Hole Cutting
- Tapping
- Coupling Removal
- Housekeeping and Waste Disposal

Shipping, Receiving, Handling and Assembly*

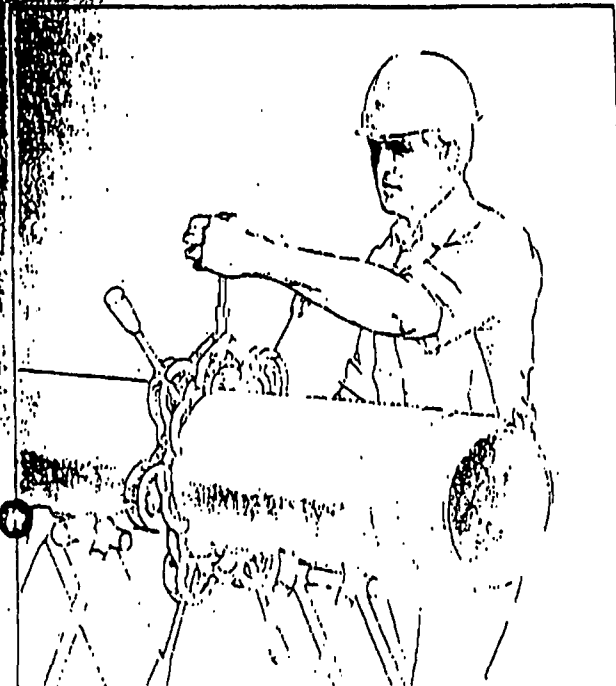


A/C pipe is shipped clean from the factory and carefully loaded using methods acceptable to the carrier. Loading, unloading, stringing out and assembling A/C pipe are essentially dust-free operations. Even in enclosed spaces, airborne asbestos fiber levels from pipe handling operations are far below existing and proposed occupational standards.

All hand and mechanical unloading operations should be carried out in accordance with the manufacturer's installation manuals.

A/C Pipe Products: All
Size Range: All

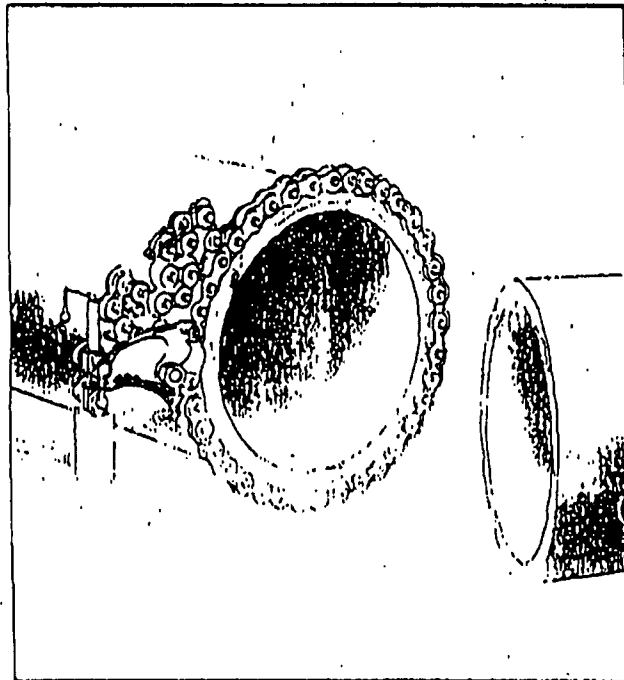
Cutting Carbide Blade Equipment



Blade cutters consist of a frame adjustable to the circumference of the pipe and a number of outboard, self-tracking rollers that align one or more carbide-tipped cutting blades. Blade cutters are typically hand-operated. Due to the relatively low mechanical input and clean cutting action, significant amounts of airborne asbestos dust are not produced.

A/C Pipe Products: All
Size Range: 3" through 24"

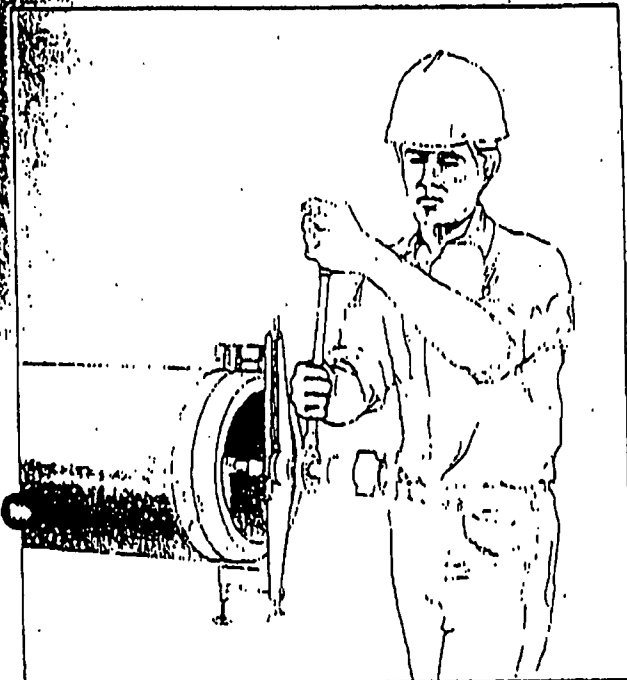
Cutting Snap Cutting Equipment



Snap cutters or "squeeze and pop" equipment operates by means of cutting wheels mounted in a chain wrapped around the pipe barrel. Hydraulic pressure, applied by means of a remote electric or manually-operated pump, simultaneously squeezes the cutting wheels into the pipe wall until the cut is made.

A/C Pipe Products: All
Size Range: Pressure Pipe—3" through 24"
Pressure, Gravity and Building Sewer; Storm Drain;
Air, Electrical and Telephone Duct—3" through 36"

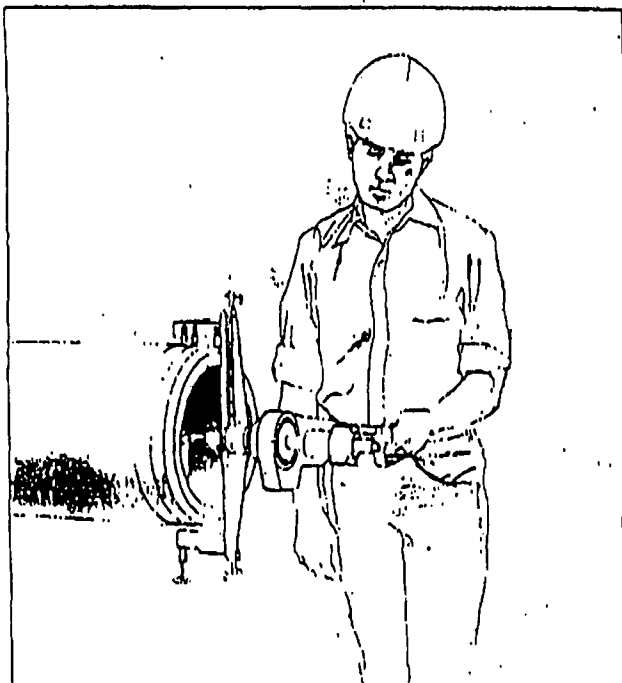
Machining Field Lathe—Manual



Manual field lathes are designed to end-trim and re-machine rough pipe barrels to factory-machined end profiles. The lathe consists of an adjustable, self-aligning arbor inserted into the pipe bore (which acts as a mandrel upon which the turning handle operates), a screw-fed turning frame, carbide machining blades and manual (hand or ratchet) turning handles.

A/C Pipe Products: All
Size Range: All

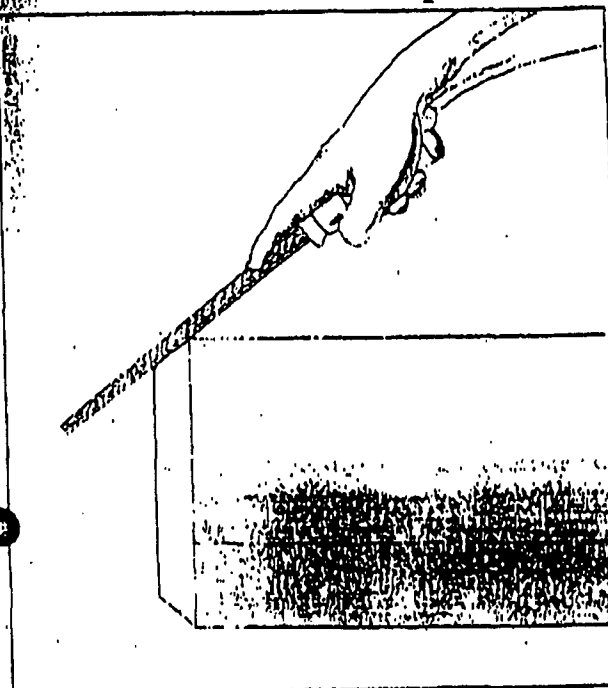
Machining Field Lathe-Power



Power field lathes, like manual lathes, are designed to end trim and re-machine rough pipe barrels to factory-machined end profiles. The lathe consists of an adjustable, self-aligning arbor inserted into the pipe bore (which acts as a mandrel upon which the turning handle operates), a screw-fed turning frame, carbide machining blades and electric or pneumatic power drive.

A/C Pipe Products: All
Size Range: All

Machining Rasp-Manual*



Short lengths of A/C pipe (MEE's & MOA's) can be cut for pipe closures, repairs and to locate fittings exactly. Field cut ends may be rebeveled with a coarse wood rasp to form a taper approximating the same profile as the factory-beveled end.

A/C Pipe Products: All
Size Range: All

Hole Cutting Shell Cutters



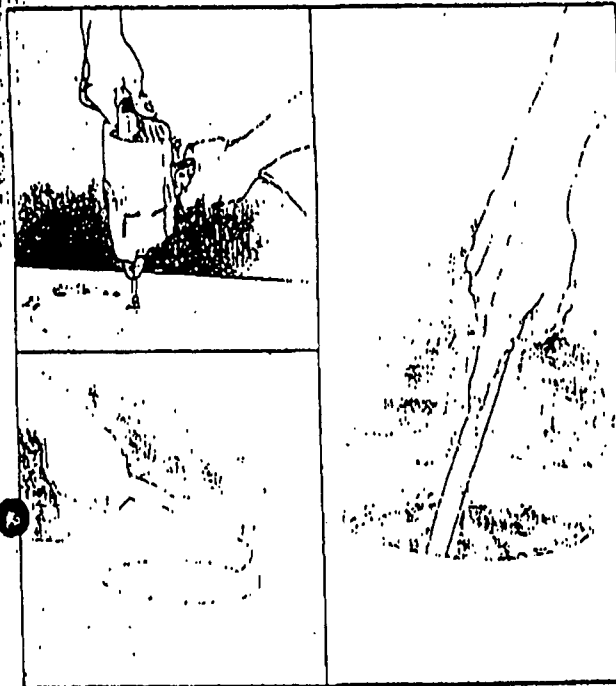
For field connections into A/C pipe, clean, even entry cuts may be accomplished by means of shell cutting equipment. Shell cutters consist of a hole cutter housing mounted on the pipe, a carbide or diamond-tipped hole cutter and a manual ratchet, pneumatic, electric or gasoline drive to power the cutting head.

When cutting holes in A/C pipe products, all dust and cuttings should be removed from the pipe or duct interior after the cutting operation. Removal may be accomplished by flushing with water, wet mopping or vacuuming prior to placing in service. DO NOT BLOW OUT WITH COMPRESSED AIR OR DRY SWEEP.

A/C Pipe Products: Pressure, Gravity and Building Sewer;
Air Duct

Size Range: All

Hole Cutting Drill and Rasp*



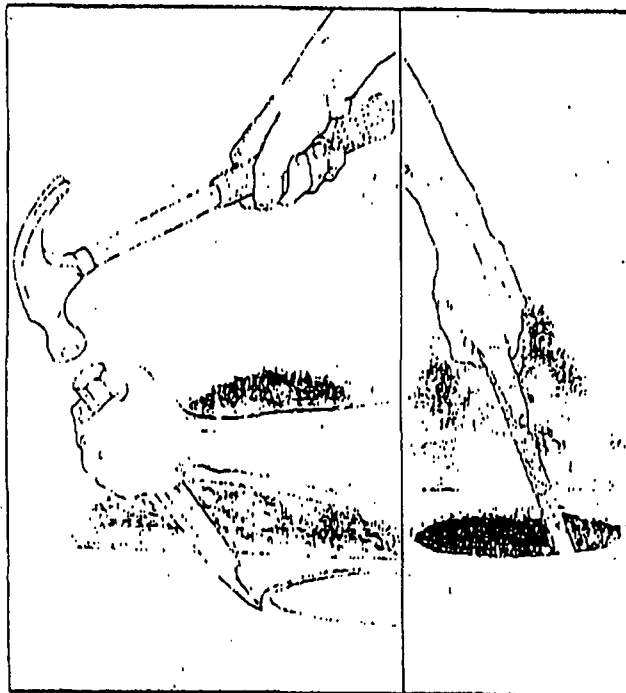
Field connections may be made with a heavy duty electric drill and rasp. Using a carbide-tipped drill, a series of closely-spaced holes are first drilled around the hole outline. The disc is knocked free with a hammer and the edges of the hole are dressed with a coarse wood rasp.

When cutting holes in A/C pipe products, all dust and cuttings should be removed from the pipe or duct interior after the cutting operation. Removal may be accomplished by flushing with water, wet mopping or vacuuming prior to placing in service. DO NOT BLOW OUT WITH COMPRESSED AIR OR DRY SWEEP.

A/C Pipe Products: Pressure, Gravity and Building Sewer;
Air Duct

Size Range: All

Hole Cutting Chisel and Rasp



Holes may be cut into A/C pipe with a hammer and chisel. The edge of a plumber's wood chisel is used to cut completely around the hole outline, about a $\frac{1}{4}$ " from the prescribed line. The operation is repeated and the cut deepened until through. The edges of the hole are then dressed with a coarse wood rasp.

When cutting holes in A/C pipe products, all dust and cuttings should be removed from the pipe or duct interior after the cutting operation. Removal may be accomplished by flushing with water, wet mopping or vacuuming prior to placing in service. **DO NOT BLOW OUT WITH COMPRESSED AIR OR DRY SWEEP.**

A/C Pipe Products: Pressure, Gravity and Building Sewer;
Air Duct

Size Range: All

Tapping Non-Pressure*



Non-pressure or "dry" tapping for service connections may be performed in or above the trench. The equipment is affixed to the pipe by means of a chain yoke. Separate drills and taps or a combination tool drills and taps the pipe wall. Corporation stops or other connections may then be affixed to the pipe.

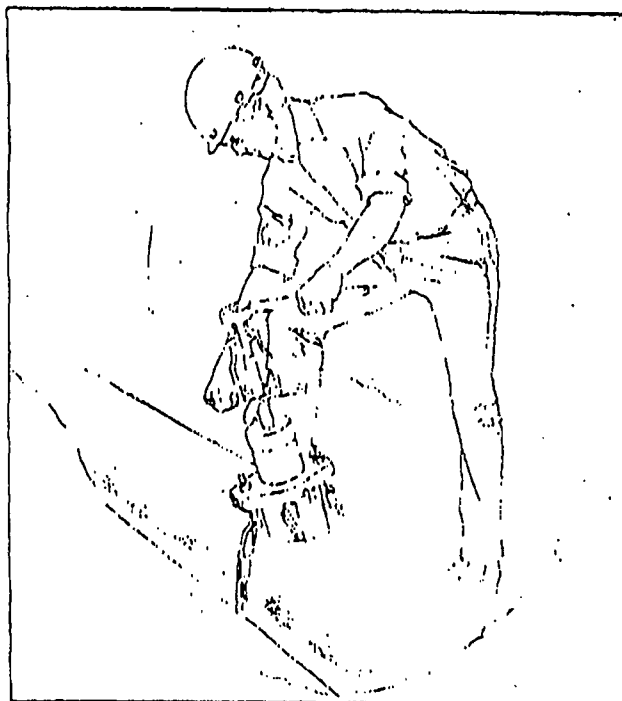
To minimize (a) the fouling of valves, regulators, meters, etc. with chips and (b) unnecessary addition of asbestos to drinking water, all dust and cuttings should be removed from the pipe interior by flushing with water, wet mopping or vacuuming prior to placing in service. **DO NOT BLOW OUT WITH COMPRESSED AIR OR DRY SWEEP.**

A/C Pipe Products: Pressure Pipe

Size Range: All

*Pressure data not currently available. Recommendation based on exposure data

Tapping Pressure*

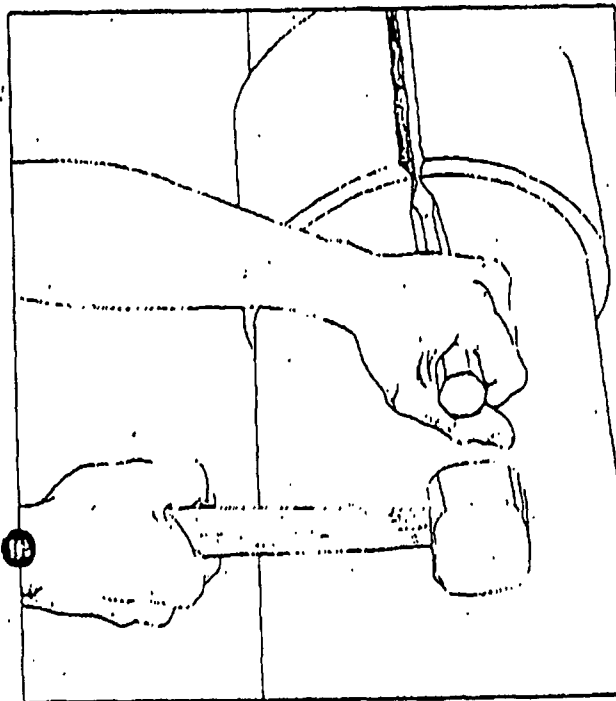


Pressure or "wet" tapping for service connections is performed in the trench while the pipe is under pressure. The equipment (manual or power driven) is affixed to the pipe by means of a chain yoke. A combination boring and inserting bar drills and taps the pipe wall and inserts a corporation stop or pipe plug. The pressure chamber, which protects against water leakage, also catches the asbestos-cement chips, so this is essentially a dust-free operation.

To minimize (a) the fouling of valves, regulators, meters, etc. with chips and (b) unnecessary addition of asbestos to drinking water, provisions should be made for downstream flushing or use of tapping equipment with positive purge or "blow-off" features.

A/C Pipe Products: Pressure Pipe
Size Range: All

Coupling Removal Hammer and Chisel*



Replacement of damaged pipe necessitates excavation, exposure and removal. Coupling removal may be accomplished by gradually splitting the coupling lengthwise, using a chisel and ball-peen hammer. After the top of the coupling has been split, a crowbar or similar tool is used as a lever to split the bottom of the coupling.

A/C Pipe Products: All pipe with A/C couplings
Size Range: All

A/C Pipe Producers Association

REGULAR MEMBERS

Asbestos de Mexico, S.A.
Tlalnepantla, Mexico
Atlas Asbestos Company
Montreal, Quebec, Canada
Canadian Johns-Manville Co., Ltd.
Mississauga, Ontario, Canada
Cement Asbestos Products Company
Birmingham, Alabama
Certain-teed Corporation
Valley Forge, Pennsylvania
Johns-Manville Sales Corporation
Denver, Colorado
Mexalit del Norte, S.A.
Mexico City, Mexico

ASSOCIATE MEMBERS

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Hamburg, Germany
Asbestos Monterrey, S.A.
Mexico City, Mexico
Association de l'Industrie l'Asbeste-Ciment
Nyon, Switzerland
Eternit, B.V.
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Everitube
Neuilly-sur-Seine, France
James Hardie & Company Pty., Ltd.
Sydney, New South Wales, Australia
Hellenit, S.A.
Athens, Greece
Hyderabad Asbestos Cement Products Ltd.
Hyderabad, India
Paralsten Kalkki Oy
Pargas, Finland
Sociedad Industrial Pizarreno, S.A.
Santiago, Chile
TAC Construction Materials, Ltd.
Manchester, United Kingdom

FACTURE
INVOICE

NO. INVOICE/ORDER NO. A10-01-00342-0-00		NO. COMM. DU CLIENT/CONT. ORDER NO. J4023/HARCM 85		MANDATABLE PRIME/ATTORNEY IN FACT TWO		L.A.S./PAUL ASBESTOS		WARRANTY P.C. 0939 P		DATE INVOICE/DATE ORDER 85-03-05	
ITEM 04 447-883-000		SEC 46 A199-05-00		CR. VENTES /SALES CR. 1		CR. VENTES /SALES CR. 2		CR. VENTES /SALES CR. 3		EXPEDITE US/IMPROV. FROM ASBESTOS	

USUALMENT L'ESCOMPTE, SI APPLICABLE, SUR VALEUR NETTE DU MATERIEL / PERME - CASH DISCOUNT IF EARNED APPLIES ON NET MATERIAL VALUE.
1 - 10 - 30

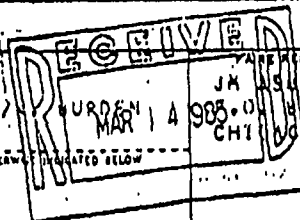
RL5 CN GTW 8N URGW WP

VENDU A/SOLD TO

J-M A.C. PIPE CORPORATION
1081 SPERRY ROAD, ATTN: J.P. SIMPSON
STOCKTON, CALIFORNIA. 95206

STOCKTON PIPE DIVISION

STOCKTON, CALIFORNIA



FAIRE REMISE A/REMIT TO ADDRESS

J.M. ASBESTOS SALES INC.
BOX 66512, AMF O'HARE AIRPORT
CHT 606, ILLINOIS 60666CANADIAN FUNDS PRICE
PAYABLE IN U.S. FUNDS

QUANTITE QUANTITY	GRADE	DESCRIPTION	UNITE UNIT	NO. PART NO. PART	PREMIUM PREMIUM	PRICE/UNIT	MONTANT/AMOUNT
60.00	SP4T30	ASBESTOS FIURE	12.00	60.00	611.25	36675.00	
	24	PALLET NO. 350	AT	.00	EACH	36675.00 S	26527.00
		GROSS WEIGHT 132000 LB.				.00	
		KLG GR 60147 NET 60000					
		PPD FRGHT - XXXXXXXX XXXXXXXXXX				10442.33	
		TOTAL IN U.S. FUNDS				10442.33 S	7557.94
		CONVERTED AT .7233					34079.97
		DEDUCT 265.27 IF PD BY MAR 16/85					
		13-0889690-					

CN 410232 SEAL 877109/877110

HAR 00000279

PLAINTIFFS
EXHIBIT
1-25-01

C	LOC	ACCT. CODE	DATE	AMT	REMARKS
			AST 210.502	CN 410232	
					34079.97
DUE DATE: 4-5-85			C/O: 0760		

Ref 74.
Center it
the place for the
Ref 710. 711. Be
centered.

- By Paul Huang
- ACCOUNTING
1. Please furnish, subject to the conditions appearing on reverse side of this order.
 2. Material sold at the delivered prices or freight allowed must be shipped prepaid. No parcel post or insurance charges allowed except as provided above.

JMM 00000022



TÉLEX: 05-833572
CABLE: "AMASCOLIM"
TÉLÉPHONE (418) 338-2181

SOCIÉTÉ ASBESTOS LIMITÉE
ASBESTOS CORPORATION LIMITED

C.P. / P.O. BOX 519, THETFORD-MINES, QUÉBEC, CANADA, G6G 5T6

PUROLATOR COURIER

Thetford-Mines, Qc, Canada
December 18, 1985

J-M MANUFACTURING COMPANY, INC.
1051 Sperry Road
Stockton, Calif. 95206
U.S.A.

Attention: Mr. Paul Huang
Purchasing Manager

Re: Request for quotation - 1986

Dear Sirs:

In reference to your letter inviting us to quote for 1986 asbestos fibre contract, we are pleased to quote the following prices valid for 1986:

<u>WHITE ASBESTOS FIBER</u>	<u>DENISON</u>	<u>STOCKTON</u>
4T	US \$498.00	US \$516.00
5R	US \$345.00	US \$361.00

Above prices are per short ton and include transportation costs to door Stockton and Denison.

We are also pleased to enclose herewith some literature, as per your request.

Yours very truly,

André Lachance
Traffic Manager

AL/hlg

Enclosure

COLLECTED

JM RD STO

ASBESTOS THTH

TO: J.H. MANUFACTURING , USA

DEC. 18, 1985

12-298

ATTN: MR. PAUL HUANG

RE. YOUR LETTER DATED NOV. 22 (REVISION RECEIVED ON DEC. 13, 1985)
WE ARE PLEASED TO QUOTE AS FOLLOWS:

FOR 1986 REQUIREMENTS

GRADE	GENTSON	STOCKTON
4T	498.00	516.00
5R	345.00	361.00

ABOVE PRICES ARE PER SHORT TON IN U.S. DOLLARS AND INCLUDES
TRANSPORATION COSTS TO DOOR PLANT.

WE WILL BE CONFIRMING ABOVE BY LETTER THIS WEEK.

HOPING ABOVE SATISFACTORY.

REGARDS,
A.LACHANCE
ASBESTOS THTH
....I
DISCONNECTED

JMM 00000024



J-M Manufacturing Company, Inc.

1051 Sperry Road, Stockton, California 95206
Tel: (209) 982-1500 • Telex: 359491 • Telecopier: (209) 465-8184

November 22, 1985

***Revised Quotation: See Below; ST should be MLBS

Asbestos Corp. Ltd.
PO Box 519
Thetford-Mines, Quebec
Canada, G6G 5T6
Attn: Claude Limoges

Re: Request for Quotation, 1986

Dear Claude,
Below you will find a list of our raw materials, additives, and/or operating supplies with our forecast requirements for the year 1986.

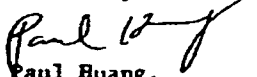
No specification is available at this time. Please bid according to the description listed.

Also, please submit the quotation, with your catalog or literature, for these products by 12/6/85 or sooner.

<u>DESCRIPTION:</u>	<u>1986 FORECAST</u>	
	<u>DENISON</u>	<u>STOCKTON</u>
***a.) 4 Grade	6,000 MLBS	7,400 MLBS
***b.) 5 Grade	940 MLBS	1,200 MLBS

If there are any questions regarding the above items, please feel free to call me anytime.

Sincerely,


Paul Huang,
Purchasing Manager

PH/js

enclosures

JMM 00000025

TEL: (514) 281-0141

EASTERN CHEN TRADING CO., LTD.
LES ENTREPRISES DE L'ORIENT CHEN CO., LTÉE
1117 Ste-Catherine St. West, Suite 603
Montreal, Quebec, Canada H3B 1H9

September 5, 1986

Ms. Jeannine Simonian
JM Manufacturing Company Inc.
1051 Sperry Road
Stockton, CA.
95206 U.S.A.

Dear Jeannine:

Following our telephone conversation of September 3, 1986,
I would like to provide you with the name and address of
LAB Chrysotile.

LAB CHRYSOTILE, INC.
835 Mooney Street
P.O.Box 459
Thetford-Mines, Quebec
G6G 5T5 CANADA
Tel: (418) 338-7500
Telex: 05-833586

JM Manufacturing's account is looked after by Mr. Ken Power.
He can be reached at (418) 338-7627

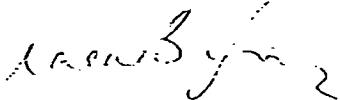
LAB Chrysotile is consisted of three former major asbestos
suppliers, namely,

Lac d'Amiante du Quebec (LAQ)
Asbestos Corporation Ltd.
Bell Asbestos Mine.

This new partnership went into effect on June 18, 1986.

Shall you require any further information, please do not hesitate
to contact me. I remain,

Yours truly,



Bih Ju Chen

JMM 00000026

/bj

LAB

RECEIVED JUL 24 1986

July 8, 1986

Gentlemen:

We wish to inform you that the agreement creating a limited partnership between Lac d'Amiante du Québec, Ltée (LAQ), Asbestos Corporation, Limited and Bell Asbestos Mines, Ltd., has been executed on June 18, 1986. We are convinced that this partnership, which will constitute the largest asbestos supplier in the western world, will ensure your long-term requirements.

The name of the limited partnership will be **LAB AND COMPANY, LIMITED** while the production and marketing activities will be managed by a company named:

LAB Chrysotile, Inc.,
835 Mooney Street
P.O. Box 459
Thetford-Mines (QC) Canada
G6G 5T5

TELEPHONE: (418) 338-7500
TELEX: 05-833586

LAB Marketing Department will be reorganized as follows:

Roland P. Gagnon V.P. - Marketing	(418) 338-7616
Mrs. Jeannine Lessard Secretary	(418) 338-7617
Jean-Marc Leblond General Director - Marketing	(418) 338-7622
Peter Buchholz General Director - Sales	(418) 338-7623
Harold F.X. Plate Sales Manager (USA & Mexico)	(203) 579-2957
Ken Power Sales Representative (USA & Canada)	(418) 338-7626

.../2

LAB Chrysotile, Inc.
P.O. Box 459
Thetford Mines, Quebec, G6G 5T5
(418) 338-7500
Telex: 05-833586

JMM 00000027

July 8, 1986

Page 2

Marc Roy Sales Office Manager	(418) 338-7620
Mrs. Gisèle Gravel Documentation/Invoicing Supervisor	(418) 338-7627
Len C. Webster Traffic Manager	(418) 338-7621
André Lachance Traffic Supervisor	(418) 338-7625
Bruno Roy Traffic Supervisor	(418) 338-7645

ALL CORRESPONDENCE SHOULD BE ADDRESSED TO:

LAB Chrysotile, Inc.,
835 Mooney Street
P.O. Box 459
Thetford-Mines (QC) Canada
G6G 5T5

Production facilities have been reorganized to ensure that the new company will keep offering you high quality fibre and that you will be receiving the same quality fibre as you were supplied heretofore.

All our marketing and technical staff is at your disposal for any inquiries you may have.

We wish to thank you for your continued support of LAB's products and rest assured of our continued interest to supply your requirements of asbestos and remain, with kindest regards,

Yours sincerely,


Roland P. Gagnon

RPG/jgl

cc: File
DFile

JMM 00000028

LAB

EFFECTIVE July 1, 1986

PRICE LIST NO. 100

ASBESTOS FIBRE PRICES

PRICES IN CANADIAN DOLLARS PER METRIC TON
F.O.B. BLACK LAKE OR THETFORD-MINES, QUEBEC, CANADA

STANDARD GRADE DESIGNATION	GUARANTEED MINIMUM TEST	FREIGHT CLASSI- FICATION	PRICE PER METRIC TON	STANDARD GRADE DESIGNATION
3F	10.5-3.9-1.3-0.3	Fibre	\$ 2,443.00	3F
3K	7-7-1.5-0.5	Fibre	2,075.00	3K
3R	4-7-4-1	Fibre	1,764.00	3R
3T	2-8-4-2	Fibre	1,600.00	3T
3Z	1-9-4-2	Fibre	1,569.00	3Z
4A	0-8-6-2	Fibre	1,510.00	4A
402	0-7-6-3	Fibre	1,272.00	402
4D	0-7-6-3	Fibre	1,227.00	4D
4K	0-4-9-3	Fibre	1,196.00	4K
4M	0-4-8-4	Fibre	1,183.00	4M
4T	0-2-10-4	Fibre	1,083.00	4T
5D	0-0.5-10.5-5	Fibre	838.00	5D
5K	0-0-12-4	Fibre	838.00	5K
5M	0-0-11-5	Fibre	788.00	5M
5R	0-0-10-6	Fibre	711.00	5R
5Z	0-0-8.6-7.4	Fibre	613.00	5Z
6D	0-0-7-9	Waste	521.00	6D
7D	0-0-5-11	Shorts	308.00	7D
7F	0-0-4-12	Shorts	279.00	7F
7H	0-0-3-13	Shorts	230.00	7H
7K	0-0-2-14	Shorts	193.00	7K
7M	0-0-1-15	Shorts	177.00	7M
7R	0-0-0-16	Shorts	164.00	7R
7T	0-0-0-16	Shorts	160.00	7T

Payment in Canadian Funds or U.S. equivalent.

Standard Packaging: 50-kg. bag or 100-lb. bag (depending on the available packaging).

Should any new government taxes be imposed, they will be added to our invoices.

All sales are F.O.B. mine. Freight, insurance and fees are for customer's account. All offers are made subject to prior sale and orders are accepted subject to our ability to deliver.

ALL PRICES ARE SUBJECT TO CHANGE WITHOUT NOTICE. INTEREST WILL BE CHARGED ON OVERDUE ACCOUNTS.

LAB Chrysotile, Inc.

P.O. Box 459

Thetford Mines, Quebec, G6G 5T5

(418) 338-7500

Telex: 05-833586

Issued - July 1, 1986

JMM 00000029

J-M A/C PIPE CORP.
Purchase Order

651 SERRY ROAD
STOCKTON, CA 95208

Vendor (Name & Address)

LAC D'AMINATE DU QUEBEC LTD.
C/O EASTERN CHEN TRADING CO., LTD.
1117 STE. CATHERINE ST. WEST
MONTREAL, QUE, CANADA H3B1H9
ATTN: T-Y. CHEN (514) 281-0141

AS RELEASED	Show This No. On Invoice
2/13/86	Bill To: East. Province
	JH60036

SHIP TO	J-M MANUFACTURING HIGHWAY 75 N DENISON, TX 75020	DENISON TX	PLANT DEST. ☐ CHARGE ☐ ALLOWED ☒ COLLECT ☐	Taxable
		SEE BELOW	N30	Tax Exempt ☒

Item	Quantity	Unit	Description	Unit Price	Extension
BLANKET ORDER FOR RECORD & BILLING PURPOSES ONLY TO COVER OUR PARTIAL REQUIREMENT OF MATERIAL SHOWN BELOW FOR THE PERIOD OF 1-1-86 to 12-31-86.					
			ASBESTOS FIBER 4T-3 (.2422/LB)	\$534/MT	
			ASBESTOS FIBER 5R-3 (.1724/LB)	\$380/MT	
IF EPA OR ANY OTHER GOVERNMENT AGENCIES BAN A/C PIPE IN THE USA, ALL SUPPLIER'S FIBER IN OUR DENISON PLANT WAREHOUSE MAY BE RETURNED FOR FULL CREDIT & FREIGHT WILL BE NEGOTIATED BY BOTH PARTIES. MATERIALS TO BE SUPPLIED WILL BE SHIPPED VIA PIGGYBACK (T.O.P.C.) ON SLIPSHOTS & SHRINK-WRAPPED UNIT.					
AUTHORIZED JH CONTACT: HQ PURCHASING DEPT. OR HAROLD STONE REQUIREMENT: UPON RECEIVING BLANKET ORDER, SUPPLIER IS TO SEND CONFIRMED ORDER BACK.					
JMM 00000030					

- Please furnish, subject to the conditions appearing on reverse side of this order.
- Material sold at the delivered prices or freight allowed must be shipped prepaid. No parcel post or insurance charges allowed except as provided above.
- Mail invoice in duplicate & B/L on date of shipment.

By PAUL HUANG

PURCHASING AGENT

**J-M Manufacturing
Company, Inc.**

Purchase Requisition

				P.R. No. H 0066																																																																																																								
Requisition Dept. BLANKET ORDER	Date Prepared 2-6-86	Date Required as released	Requisitioned By B. Harris																																																																																																									
Suggested Vendor			Remarks: (Justification, Package, etc.) Bill to Denison, TX		Deliver to: Denison, TX																																																																																																							
			Account No.		Project No. (w/o No)																																																																																																							
					Charge Code/Cost Center																																																																																																							
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Partial or Complete																																																																																																												
Received By																																																																																																												

JMM 00000031

(Purchasing fill out Shaded areas)

Paul Huang
Purchasing Department

PURCHASING

J-M A/C PIPE CORP.

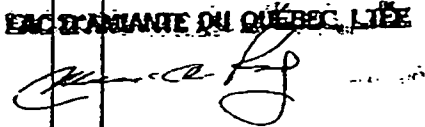
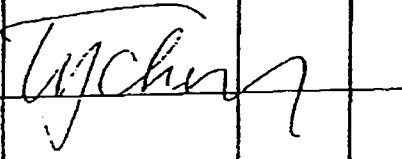
1051 SPERRY ROAD
STOCKTON, CA 95208

Purchase Order
Vendor (Name & Address)

LAC D'AMINATE DU QUEBEC LTD.
C/O EASTERN CHEM TRADING CO., LTD.
1117 STE, CATHERINE ST. WEST
MONTREAL, QUE, CANADA H3B1H9
ATTN: T.Y. CHEN (514) 281-0141

AS RELEASED	Show This No. On Invoice.
	B/L and Each Package.
2/13/86	JH60036

J-M MANUFACTURING HIGHWAY 75 N DENISON, TX 75020	DENISON, TX STOCKTON, CA	PLANT DEST. ☐ CHARGE ☐ ALLOWED ☐ COLLECT ☐	Taxable %
SEE BELOW	N30		Tax Exempt ☒

Item	Quantity	Unit	Description	Unit Price	Extension
BLANKET ORDER FOR RECORD & BILLING PURPOSES ONLY TO COVER OUR PARTIAL REQUIREMENT OF MATERIAL SHOWN BELOW FOR THE PERIOD OF 1-1-86 to 12-31-86.					
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AUTHORIZED JM CONTACT: HQ PURCHASING DEPT. OR HAROLD STONE					
REQUIREMENT: UPON RECEIVING BLANKET ORDER, SUPPLIER IS TO SEND CONFIRMED ORDER BACK.					
EASTERN CHEM TRADING CO. LTD.  LAC D'AMINATE DU QUEBEC LTD. REC'D BLACK LANE 24 FEB '86 JO HOG HOG HOG HOG HOG HOG HOG HOG  JMM 00000032					

- Please furnish, subject to the conditions appearing on reverse side of this order.
- Material sold at the delivered prices or freight allowed must be shipped prepaid. No parcel post or insurance charges allowed except as provided above.
- Mail invoice in duplicate & B/L on date of shipment.

By PAUL HUANG

VENDOR

LAC D'AMIANTE DU QUEBEC, LTEE

M E M O R A N D U M

RECU	
BLACK LAKE	
25 APR '86	
✓	10
✓	RFG
✓	PS
✓	TRP
✓	TR
✓	NA
✓	LOW
✓	Y2

TO: P. Laroche

FROM: N. Boutet

Date: April 25, 1986

cc: *Eastern*

Chen

SUBJECT: Crocidolite (blue fibre) from China National Metal

Please find enclosed our laboratory tests results on a crocidolite fibre sample from China National Metal. This sample came to us through Eastern Chen.

Results obtained are a bit confusing. Ro-Tap and Quebec Standard tests show a 5R grade, but Bauer-McNett results indicate a 4T grade. We also note a very high wet volume (in the range of our group 3 fibre) and a very slow drainage rate.

We will run a fibre strength unit test on the remaining fibre and base the evaluation of our closest matching grade mostly on that result. A complementary report will be issued as soon as F.S.U. results are known.

Normand Boutet

N. Boutet

NB/dbm
cc: AGauthier
RPGagnon
GVerreault
CBernier
Lab
File

Copy to P. W. W. ✓

This report was Loe did for Eastern Chen concerning the blue fibre for China.

Did you have any response back from Calaveras? Let me know.

*② file w/Loe - Asbestos file *Paul* 4/28/86*

LAC D'AMIANTE DU QUEBEC, LTEE

DIVISION BLACK LAKE DIVISION

CONTROLE DE LA QUALITE - QUALITY CONTROL RESULTATS DE TESTS EN LABORATOIRE - LABORATORY RESULTS

ENT DU DEPARTEMENT
CUSTOMER OR DEPARTMENT

EASTERN CHEN

DATE: APRIL 25, 1986

HULLON - SAMPLE (GRADE)		CROCIDOLITE (BLUE FIBRE)				
SACHAGE - BAGGING		FROM CHINA				
DEMANDE - ORDER NO.		NATIONAL				
CON - CAR NO.		METAL				
UNES - TONS		LAB. NO.				
FE		4683				
ART - SHIFT						
STANDARD (1 LB. - 1 MIN. 50 SEC.)						
1/2 PO. - INCH.						
4 M.		0.4				
10 M.		11.6				
35 M.		3.3				
PAN		0.7				
AP	4 + 5	6 + 7D	7			
MIN.	50/10	100/10	100/30			
	3	4	6	6	1.2	
	4	5	10	14	4.0	
	6	10	14	20	40.0	
	10	20	20	28	34.0	
	20	35	35	35	13.0	
	35	65	65	65	3.8	
PAN PAN PAN PAN		4.0				
NET (20 MIN.)						
10 GR.						
4 M.		30.0				
14 M.		12.0 42.0				
35 M.		10.0				
200 M.		18.0				
200 M.		30.0				
AI DE LAVAGE - 200 M. (%)						
H TEST						
X (100 GR.)		4.5				
TICULES + 20M. ROCK PARTICLES		L.				
UNNETS + 20 M. U.F.P.		M.				
TENU ROCHEUX (%) ROCK CONT.						
A SEC. (100 GR.) C.C.						
BULK						
A L'EAU (30 GR.-2 HRS) C.C.		1900				
BULK						
A L'EAU (20 GR.-4 HRS) C.C.						
BULK						
OSITE - VISCOSITY						
OSENE C.C. 100 GR.						
ETRATION						
IMAGE - FILTRATION (SEC.)		464				
FACE - R.S.A. (CM.² / GR.)		6700				
LEUR - COLOR						
L. (IND.)						
=						
ARQUES - REMARKS						
UBLE CHLORIDES (PPM)		60				

JMM 00000034

Purchase Requisition

(Purchasing till out Shaded areas)

Purchasing Department

DISPOSING

JMM 00000035

J-M Manufacturing Company, Inc.

1051 Sperry Road, Stockton, California 95206

Tel:(209) 982-1500 • Telex:359491 • Telecopier:(209) 465-8184

November 22, 1985

*****Revised Quotation: See Below; ST should be MLBS**

Lac. D'Amiante Du Quebec Ltd.
C/O Eastern Chen Trading Co., Ltd.
1117 Suite-Catherine St. West
Montreal, Que. Canada H3B 1H9
(514) 281-0141
Attn: Mr. T. Chen

47

5R

[illegible]

Re: Request for Quotation, 1986

Dear Mr. Chen,

Below you will find a list of our raw materials, additives, and/or operating supplies with our forecast requirements for the year 1986.

No specification is available at this time. Please bid according to the description listed.

Also, please submit the quotation, with your catalog or literature,
For these products by 12/6/85 or sooner.

DESCRIPTION

1986 FORECAST

WHITE ASBESTOS FIBER

DENISON

STOCKTON

*** a.) 4 Grade

6,000 MLBS

7,400 MLBS

*** b.) 5 Grade

940 MLBS

1.200 MLBS

If there are any questions regarding the above items, please feel free to call me anytime.

Sincerely,


Paul Huang,
Purchasing Manager

PE/JS

enclosures

JMM 00000036

J-M A/C PIPE CORP.

1051 SPEER ROAD
STOCKTON, CA 95206

Purchase Order

CHANGE MARKET ORDER

Vendor (Name & Address)

Lab Chrysotile, Inc.
c/o Eastern Chen Trading Co., Ltd.
1117 Ste-Catherine St. West Suite 603
Montreal, Quebec, Canada H3B1H9
(514) 281-0141

Delivery Schedule	Show This No. On Invoice
Issue Date	Purchase Order No.
10-16-86	JH60036

SHIP TO	J-M Manufacturing Co., Inc. Highway 75N Denison, Tx. 75020	SHIP Via rail	FOB PLANT ☒ DEST. ☐ PPD CHARGE ☐ PPD ALLOWED ☐ COLLECT ☐	Taxable %
		Terms N30	Tax Exempt ☒	

Item	Quantity	Unit	Description	Unit Price	Extension
Effective 10-3-86, the price of 4T asbestos fiber should be revised from \$534./MT to \$519./MT & firm through 12-31-86. The rest of this order remains unchanged.					
LAB Chrysotile, Inc. P. O. BOX 459 THETFORD MINES, QUEBEC, G6G 5T5 (418) 338-7500 TELEX: 05-833586 <i>Kenn</i> EASTERN CHEN TRADING CO. LTD. <i>Y Chen</i> JMM 00000037					

1. Please furnish, subject to the conditions appearing on reverse side of this order. 2. Material sold at the delivered prices or freight allowed must be shipped prepaid. No parcel post or insurance charges allowed except as provided above. 3. Mail invoice in duplicate & B/L on date of shipment.	By Paul Huang <i>Paul Huang</i> VENDOR
---	---

J-M A/C PIPE CORP.

1051 SPERRY ROAD
STOCKTON, CA 95206

Purchase Order

Vendor (Name & Address)

Lab Chrysotile, Inc.
c/o Eastern Chen Trading Co., Ltd.
1117 Ste-Catherine St. West Suite 603
Montreal, Quebec, Canada H3B1H9
(514) 281-0141

Delivery Schedule as released	Show This Not On Invoice B/L and Each Package
Issue Date 10-16-86	Purchase Order No. JH60092

J-M Manufacturing Co., Inc. 1051 Sperry Rd. Stockton, Ca. 95206	Bill to: <u>Stockton, Ca.</u>	FOB: <u>PLANT</u> <u>DEST.</u> <u>PPD CHARGE</u> <u>PPD ALLOWED</u> <u>COLLECT</u>	Taxable %
	Ship Via: <u>rail</u>	Terms: <u>W30</u>	Tax Exempt ☒

Item	Quantity	Unit	Description	Unit Price	Extension
BLANKET ORDER FOR RECORD & BILLING PURPOSES ONLY TO COVER OUR PARTIAL REQUIREMENT OF MATERIAL SHOWN BELOW <u>12-31-86</u>					
			<u>FIRM FARGO</u>		
			1. Asbestos Fiber 4T-3	\$519./MT	
IF EPA OR ANY OTHER GOVERNMENT AGENCIES BAN A/C PIPE IN THE USA, ALL SUPPLIER'S FIBER IN OUR <u>Stockton</u> PLANT WAREHOUSE MAY BE RETURNED FOR FULL CREDIT & FREIGHT WILL BE NEGOTIATED BY BOTH PARTIES. MATERIALS TO BE SUPPLIED WILL BE SHIPPED VIA <u>RAIL</u> ON SLIPSHEETS & SHRINK-WRAPPED UNIT.					
AUTHORIZED J-M CONTACT: HQ PURCHASING DEPT. OR <u>D.W. Wilkinson</u>					
REQUIREMENT: UPON RECEIVING BLANKET ORDER, SUPPLIER IS TO SEND CONFIRMED ORDER BACK.					
LAB Chrysotile, Inc. P. O. BOX 459 THEFTFORD MINES, QUEBEC, G6G 5T5 (418) 338-7500 TELEX: 05-833586 <i>Ken Power</i> EASTERN CHEN TRADING CO. LTD. <i>Ty Chen</i> JMM 00000038					

- Please furnish, subject to the conditions appearing on reverse side of this order.
- Material sold at the delivered prices or freight allowed must be shipped prepaid. No parcel post or insurance charges allowed except as provided above.
- Mail invoice in duplicate & B/L on date of shipment.

By Paul Hagg

VENDOR

J-M A/C PIPE CORP.

1031 SPERRY ROAD
STOCKTON, CA 95206

Purchase Order

Vendor (Name & Address)

Lab Chrysotile, Inc.
c/o Eastern Chem Trading Co., Ltd.
1117 Ste-Catherine St. West Suite 603
Montreal, Quebec, Canada H3B1R9
(514) 281-0141

as released	Show Time to On Invoice B/L and Extra Package ↓
10-16-86	JH60092

J-M Manufacturing Co., Inc.
1051 Sperry Rd.
Stockton, Ca. 95206

Bill to Stockton, Ca.	PLANT ☐ DEST. ☐ CHARGE ☐ ALLOWED ☐ COLLECT ☐	Taxable ____ %
rail	NO	Tax Exempt ☒

Item	Quantity	Unit	Description	Unit Price	Extension
BLANKET ORDER FOR RECORD & BILLING PURPOSES ONLY TO COVER OUR PARTIAL REQUIREMENT OF MATERIAL SHOWN BELOW FOR THE PERIOD OF 1-1-87 to 12-31-87.					
			1. Asbestos Fiber 4T-3	\$519./KT	
IF EPA OR ANY OTHER GOVERNMENT AGENCIES BAN A/C PIPE IN THE USA, ALL SUPPLIER'S FIBER IN OUR <u>Stockton</u> PLANT WAREHOUSE MAY BE RETURNED FOR FULL CREDIT & FREIGHT WILL BE NEGOTIATED BY BOTH PARTIES. MATERIALS TO BE SUPPLIED WILL BE SHIPPED VIA PICKUP (T.O.R.C.) ON SLIPSHEETS & SHRINK-WRAPPED UNIT.					
AUTHORIZED J-M CONTACT: HQ PURCHASING DEPT. OR D.W. Wilkinson					
REQUIREMENT: UPON RECEIVING BLANKET ORDER, SUPPLIER IS TO SEND CONFIRMED ORDER BACK.					
JMM 00000039					

- Please furnish, subject to the conditions appearing on reverse side of this order.
- Material sold at the delivered prices or freight allowed must be shipped prepaid. No parcel post or insurance charges allowed except as provided above.
- Mail invoice in duplicate & B/L on date of shipment.

By

Paul Hanning

PURCHASING AGENT

J-M A/C PIPE CORP.

1051 SPERRY ROAD
STOCKTON, CA 95208

Purchase Requisition

RECEIVED OCT 21 1986

P.R. No. H 8136		P.O. No. (Master No.) 7860092																																																																														
Requisition Dept. Blanket order	Date Prepared 10-16-86	Date Required	Requisitioned By																																																																													
Suggested Vendor		Remarks: (Justification, Package, etc.) Bill to Stockton, Ca.																																																																														
Est. Date of Order		Date Ordered	Schedule Delivery																																																																													
Ordered From Lab Chrysofile, Inc. c/o Eastern Chen Trading Co., Ltd 1117 St. Catherine St. West Suite 603 Montreal, Quebec, Canada H3B1H9 (514) 281-0181		FOB: ☐ PLANT ☒ DEST ☐ CHARGE ☐ PRO-ALLOWED ☐ COLLECT ☐																																																																														
Ship Via Tail		Terms n30																																																																														
Confirm to: T.Y. Chen		Est. Freight																																																																														
Taxable ☒		☒ Tax Exempt																																																																														
Charge Code		Account No.																																																																														
<table border="1"> <thead> <tr> <th>Quantity</th> <th>Item</th> <th>Qty</th> <th>Unit</th> <th>Complete Description</th> <th>Unit Price</th> <th>Extension</th> </tr> </thead> <tbody> <tr> <td colspan="7">BLANKET ORDER FOR RECORD & BILLING PURPOSES ONLY TO COVER OUR PARTIAL REQUIREMENT OF MATERIAL SHOWN BELOW FOR THE PERIOD OF 1-1-87 to 12-31-87.</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>1. Asbestos Fiber 4T-3</td> <td>\$50 / M</td> <td></td> </tr> <tr> <td colspan="7">XXXXXXXXXXXXXXXXXXXX</td> </tr> <tr> <td colspan="7">IF EPA OR ANY OTHER GOVERNMENT AGENCIES BAN A/C PIPE IN THE USA, ALL SUPPLIER'S FIBER IN OUR Stockton PLANT WAREHOUSE MAY BE RETURNED FOR FULL CREDIT & FREIGHT WILL BE NEGOTIATED BY BOTH PARTIES. MATERIALS TO BE SUPPLIED WILL BE SHIPPED VIA PICKUP (I.O.P.C.) ON SLIPSHEETS & SHRINK-WRAPPED UNIT.</td> </tr> <tr> <td colspan="7">AUTHORIZED IN CONTACT: HQ PURCHASING DEPT. OR MINER D.W. Wilkerson</td> </tr> <tr> <td colspan="7">REQUIREMENT: UPON RECEIVING BLANKET ORDER, SUPPLIER IS TO SEND CONFIRMED ORDER BACK</td> </tr> <tr> <td colspan="6">Total</td> <td></td> </tr> <tr> <td colspan="2">Date Received</td> <td colspan="2">APPROVAL</td> <td>President</td> <td>V.P.</td> <td>Manager</td> </tr> <tr> <td colspan="2">Partial or Complete</td> <td colspan="2"></td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="2">Received By</td> <td colspan="2"></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>				Quantity	Item	Qty	Unit	Complete Description	Unit Price	Extension	BLANKET ORDER FOR RECORD & BILLING PURPOSES ONLY TO COVER OUR PARTIAL REQUIREMENT OF MATERIAL SHOWN BELOW FOR THE PERIOD OF 1-1-87 to 12-31-87.											1. Asbestos Fiber 4T-3	\$50 / M		XXXXXXXXXXXXXXXXXXXX							IF EPA OR ANY OTHER GOVERNMENT AGENCIES BAN A/C PIPE IN THE USA, ALL SUPPLIER'S FIBER IN OUR Stockton PLANT WAREHOUSE MAY BE RETURNED FOR FULL CREDIT & FREIGHT WILL BE NEGOTIATED BY BOTH PARTIES. MATERIALS TO BE SUPPLIED WILL BE SHIPPED VIA PICKUP (I.O.P.C.) ON SLIPSHEETS & SHRINK-WRAPPED UNIT.							AUTHORIZED IN CONTACT: HQ PURCHASING DEPT. OR MINER D.W. Wilkerson							REQUIREMENT: UPON RECEIVING BLANKET ORDER, SUPPLIER IS TO SEND CONFIRMED ORDER BACK							Total							Date Received		APPROVAL		President	V.P.	Manager	Partial or Complete							Received By						
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Partial or Complete																																																																																
Received By																																																																																

(Purchasing fill out Shaded areas)

JMM 00000040

Paul Huang
Purchasing Department

PURCHASING

JM AC PIPE CORP.

1057 SPERRY ROAD
S. JACKSON, CA 95208

Purchase Order

CHANCE BLANKET ORDER

Vendor (Name & Address)

Chrysofile, Inc.
1678/o Eastern Chen Trading Co., Ltd.
1117 Ste-Catherine St. West Suite 603
Montreal, Quebec, Canada H3B1H9
(514) 281-0141

Show This No. On Invoice	
B/L and Each Package	
10-16-86	JH60036

J-M Manufacturing Co., Inc.
Highway 75N
Denison, Tx. 75020

PLANT	DEST.	PPD	CHARGE	PPD	ALLOWED	COLLECT	Taxable
☐	☐	☐	☐	☐	☐	☐	____ %
rail							Tax Exempt ☒
H30							

Item	Qmnt.	Unit	Description	Unit Price	Extension
Effective 10-3-86, the price of 4T asbestos fiber should be revised from \$534./MT to \$519./MT & firm through 12-31-86.					
The rest of this order remains unchanged.					
JMM 00000041					

- Please furnish, subject to the conditions appearing on reverse side of this order.
- Material sold at the delivered prices or freight allowed must be shipped prepaid. No parcel post or insurance charges allowed except as provided above.
- Mall invoice in duplicate & B/L on date of shipment.

By Paul Huang

PURCHASING AGENT

JW A/C PIPE CORP.

1051 SPERRY ROAD
SILICON, CA 95208

Purchase Requisition

RECEIVED OCT 21 1986

P.R. No. H 8137		P.O. No. (Trade No.) JMM00036	
Requisition Dept. Change	Date Prepared 10-16-86	Date Required	Requisitioned By Bill Harris
Project No. (w/o No.)		Channel No.	
Suggested Vendor		Remarks: (Justification, Package, etc.)	
Deliver to: Denison, TX.			
Est. Date of Order	Date Ordered	Schedule Delivery	ROFF
			☐ MAIL ☐ EXPRESS ☐ DELIVERED ☐ COLLECT
Est. Freight		B.G. No.	
B.G. No.		Charge Code	
Account No.		Tax-Exempt ☒	
Effective 10-3-86, the price of 4T asbestos fiber should be revised from \$534./MT to \$519./MT & firm through 12-31-86. The rest of this order remains unchanged			
Total:			
Date Received	Partial or Complete	Received By	APPROVAL
President		V.P.	Manager
Section Head			

(Purchasing fill out Shaded areas)

JMM 00000042

Paul Hoang
Purchasing Department

751 W. STRY ROAD
STOCKTON, CA 95218

CHANCE BLANKET ORDER

Calaveras Asbestos Ltd.
P.O. Box 127
Copperopolis, Ca. 95228
ATTN: Mr. Gordon Coats
(209) 785-2201

REPORTED BY as released	SHOW THIS NO. ON INVOICE BILL AND EXCH. PACKING: 
DATE 10-16-86	JMS0035

J-N Manufacturing Co., Inc.
1051 Sperry Rd.
Stockton, Ca. 95206

TRUCK SH-74 truck	PLANT DEST. ☐ ☐ PPD CHARGE ☐ PPD ALLOWED ☐ COLLECT ☐ R30	Taxable _____ % Tax Exempt ☒
--	--	---

Item	Quantity	Unit	Description	Unit Price	Extension
			Effective 10-16-86 the price of 4T asbestos fiber will be revised from \$470./ST to \$460./ST & firm through 12-31-86.		
			The rest of this order remains unchanged.		

JMM 00000043

JMM 00000043

1. Please furnish, subject to the conditions appearing on reverse side of this order.
2. Material sold at the delivered prices or freight allowed must be shipped prepaid. No parcel post or insurance charges allowed except as provided above.
3. Mail Invoice in duplicate & B/L on date of shipment.

By Paul Huang

PURCHASING AGENT

1051 SPERRY ROAD
STOCKTON, CA 95208

RECEIVED OCT 21 1986

[illegible]

(Purchasing fill out Shaded areas)

Paul Huang
Purchasing Department

PURCHASING

1051 SPERRY ROAD
STOCKTON, CA 95206

Vendor (Name & Address)

CALAVERAS ASBESTOS LTD.
PO BOX 127
COPPERPOLIS, CA. 95228
ATTN: GORDON A. COATS
(209)785-2201

AS RELEASED 2/14/86	Show This No. On Invoice, Bill and Cash Receipts:  JH60035
---	--

J-M MANUFACTURING 1051 SPERRY ROAD STOCKTON, CA. 95206 4YT	STOCKTON, HQ ACCT	PLANT DEST. ☒ SP ☐	CHARGE ☐	ALLOWED ☐	COLLECT ☒	Taxable ____ %
	TRUCK: \$10.00/ST	H30				Tax Exempt ☒

Item	Quantity	Description	Unit Price	Extension
BLANKET ORDER FOR RECORD AND BILLING PURPOSES ONLY TO COVER OUR PARTIAL REQUIREMENT OF MATERIAL SHOWN BELOW FOR THE PERIOD OF 1-1-86 TO 12-31-86.				
		ASBESTOS FIBER 4T GRADE	\$470/ST	
		ASBESTOS FIBER 5R GRADE	\$325/ST	
IF EPA OR ANY OTHER GOVERNMENT AGENCIES BAN A/C PIPE IN THE USA, ALL SUPPLIERS'S FIBER IN OUR STOCKTON PLANT WAREHOUSE MAY BE RETURNED FOR FULL CREDIT & FREIGHT WILL BE NEGOTIATED BY BOTH PARTIES. MATERIALS TO BE SUPPLIED WILL BE PACKED WITH SHRINK-WRAPPED UNIT.				
AUTHORIZED JM CONTACT: HQ PURCHASING DEPT. OR D.W. WILKINSON				
REQUIREMENT: UPON RECEIVING BLANKET ORDER, SUPPLIER IS TO SEND CONFIRMED ORDER BACK.				

JMM 00000045

1. Please furnish, subject to the conditions appearing on reverse side of this order.
2. Material sold at the delivered prices or freight allowed must be shipped prepaid. No parcel post or insurance charges allowed except as provided above.
3. Mail invoice in duplicate & B/L on date of shipment.

By PAUL HUANG

PURCHASING AGENT

J-M A/C PIPE CORP.

 1651 SPERRY ROAD
 STOCKTON, CA 95206

Purchase Requisition

				P.R. No. H 8018	BQ No. (Optional)
Division Dept.	Date Prepared	Date Required	Requisitioned By	Project No. (w/o No.)	Charge No.
BLANKET ORDER	2/5/86	as released	B. Harris		
Suggested Vendor			Remarks: (Justification, Package, etc.)		Deliver to:
			BILL TO Stockton, Ca.		Stockton, Ca.
Est. Date of Order	Date Ordered	Schedule Delivery	Priority	Order No.	Est. Freight
Product Code			Material	Quantity	Unit Price
Charge Code			Account No.		
Item	Qty.	Unit	Complete Description	Unit Price	Extension
BLANKET ORDER FOR RECORD & BILLING PURPOSES ONLY TO COVER OUR PARTIAL MONTHLY REQUIREMENT OF MATERIAL SHOWN BELOW FOR THE PERIOD OF 1-1-86 TO 12-31-86.					
			1. Asbestos Fiber 4T grade		
			2. Asbestos Fiber 5R grade		
IF EPA OR ANY OTHER GOVERNMENT AGENCIES BAN A/C PIPE IN THE USA, ALL A/C PIPE IN OUR STOCKTON PLANT WAREHOUSE MAY BE RETURNED FOR FULL REFUND. THIS WILL BE NEGOTIATED BY BOTH PARTIES. MATERIALS TO BE SUPPLIED WITH SHRINK-WRAPPED UNIT.					
AUTHORIZED J-M CONTACT: HQ PURCHASING DEPT. OR D.W. WILKINSON REQUIREMENT: UPON RECEIVING BLANKET ORDER, SUPPLIER IS TO SEND CONFIRMED ORDER BACK					
				Total	
Date Received	Partial or Complete	Received By	President	V.P.	Manager

(Purchasing fill out Shaded areas)

JMM 00000046

Purchasing Department

PURCHASING



J-M Manufacturing Company, Inc.

1051 Sperry Road, Stockton, California 95206
Tel:(209) 982-1500 • Telex:359491 • Telecopier:(209) 465-8184

November 22, 1985

***Revised Quotation: See Below; ST should be MLBS

Calsonic, Ltd.

Copperopolis, Ca. 95228

Attn: Gordon Coats

(408) 388-1111

Re: Request for Quotation, 1986

Dear Gordon,

Below you will find a list of our raw materials, additives, and/or operating supplies with our forecast requirements for the year 1986.

No specification is available at this time. Please bid according to the description listed.

Also, please submit the quotation, with your catalog or literature, For these products by 12/6/85 or sooner.

DESCRIPTION:

1986 FORECAST

<u>WHITE ASBESTOS FIBER</u>	<u>DENISON</u>	<u>STOCKTON</u>
***a.) 4 Grade	6,000 MLBS	7,400 MLBS
***b.) 5 Grade	940 MLBS	1,200 MLBS

If there are any questions regarding the above items, please feel free to call me anytime.

Sincerely,



Paul Huang
Purchasing Manager

PE/js

enclosures

JMM 00000047

RECEIVED

[Handwritten signature]



December 4, 1985

Mr. Paul Huang, Purchasing Manager
JM Manufacturing Company, Inc.
1051 Sperry Road
Stockton, CA 95206

Dear Paul,

I am leaving on an extended business trip to Europe on Thursday, December 5, 1985, and will return to San Francisco the night of Thursday, December 19th. I would be pleased to meet you in your office on Friday, the 20th, about 10 a.m.

As of this date, I have not heard of any definite 1986 pricing. One U.S. customer told me yesterday that a Canadian asbestos supplier advised him his price would not increase in 1986, but would remain the same.

We are most interested in serving your Company in 1986, not only with our quality fiber, but also the service we can offer. I don't want any misunderstandings with you as occurred last year. We obviously must be competitive, and can supply you F.O.B. your facility in Stockton at a lesser price than other, more distant mines.

It is also possible that while on this trip I will learn about 1986 prices. If this is the case I will telephone you from wherever I am.

I look forward to visiting with you within two weeks.

Best regards.

Yours,

CALAVERAS NATURAL RESOURCES, INC.
General Partner

[Handwritten signature of Gordon A. Coats]
Gordon A. Coats
President

GAC:tc

JMM 00000048

1051 SPERRY ROAD
STOCKTON, CA 95206

ENTERED FEB 20 1986

CALAVERAS ASBESTOS LTD.
PO BOX 127
COPPERPOPLIS, CA. 95228
ATTN: GORDON A. COATS
(209)785-2201

Delivery Schedule	Show This No. On Invoice
AS RELEASED	Bill and Each Package. ↓
Issue Date	Purchase Order No.
2/14/86	JH60035

J-M MANUFACTURING 1051 SPERRY ROAD STOCKTON, CA. 95206 ACT	Bill To: STOCKTON, HQ ACCT	FOB: PLANT DEST. ☒ SP ☐ PPD CHARGE ☐ PPD ALLOWED ☐ COLLECT ☒	Taxable _____ %
	Ship Via ESTIMATED FREIGHT TRUCK: \$10.00/ST	Terms N30	Tax Exempt ☒

Item	Quantity	Unit	Description	Unit Price	Extension
			BLANKET ORDER FOR RECORD AND BILLING PURPOSES ONLY TO COVER OUR PARTIAL REQUIREMENT OF MATERIAL SHOWN BELOW FOR THE PERIOD OF 1-1-86 TO 12-31-86.		
			ASBESTOS FIBER 4T GRADE	\$470/ST	
			ASBESTOS FIBER 5R GRADE	\$325/ST	
IF EPA OR ANY OTHER GOVERNMENT AGENCIES BAN A/C PIPE IN THE USA, ALL SUPPLIER'S FIBER IN OUR STOCKTON PLANT WAREHOUSE MAY BE RETURNED FOR FULL CREDIT & FREIGHT WILL BE NEGOTIATED BY BOTH PARTIES. MATERIALS TO BE SUPPLIED WILL BE PACKED WITH SHRINK-WRAPPED UNIT.					
AUTHORIZED JH CONTACT: HQ PURCHASING DEPT. OR D.W. WILKINSON REQUIREMENT: UPON RECEIVING BLANKET ORDER, SUPPLIER IS TO SEND CONFIRMED ORDER BACK.					
<i>Approved</i> <i>Good Luck, be true</i> <i>Calum N. Lto</i> <i>Calum N. Lto</i> <i>2-18-86</i>					
JMM 00000049					

JMM 00000049

1. Please furnish, subject to the conditions appearing on reverse side of this order.
2. Material sold at the delivered prices or freight allowed must be shipped prepaid. No parcel post or insurance charges allowed except as provided above.
3. Mail invoice in duplicate & B/L on date of shipment.

By PAUL HUANG

VENDOR



TÉLEX: 05-633572
CÂBLE: "AMASCOLIM"
TÉLÉPHONE (418) 338-2181

SOCIÉTÉ ASBESTOS LIMITÉE
ASBESTOS CORPORATION LIMITED
C.P. / P.O. BOX 519, THETFORD-MINES, QUÉBEC, CANADA, G6G 5T6

PUROLATOR COURIER

Thetford-Mines, Qc, Canada
December 18, 1985

J-M MANUFACTURING COMPANY, INC.
1051 Sperry Road
Stockton, Calif. 95206
U.S.A.

Attention: Mr. Paul Huang
Purchasing Manager

Re: Request for quotation - 1986

Dear Sirs:

In reference to your letter inviting us to quote for 1986 asbestos fibre contract,
we are pleased to quote the following prices valid for 1986:

<u>WHITE ASBESTOS FIBER</u>	<u>DENISON</u>	<u>STOCKTON</u>
4T	US \$498.00	US \$516.00
5R	US \$345.00	US \$361.00

Above prices are per short ton and include transportation costs to door
Stockton and Denison.

We are also pleased to enclose herewith some literature, as per your request.

Yours very truly,

André Lachance
Traffic Manager

AL/hlg

Enclosure

JMM 00000050

FOURNISSEUR D'AMIANTE A L'ECHELLE MONDIALE
WORLDWIDE SUPPLIER OF ASBESTOS

CONNECTED

JH RD STO

ASBESTOS THTM

TO: J.H. MANUFACTURING , USA

DEC. 18, 1985

12-298

ATTN: MR. PAUL HUANG

RE. YOUR LETTER DATED NOV. 22 (REVISION RECEIVED ON DEC. 13, 1985)
WE ARE PLEASED TO QUOTE AS FOLLOWS:

FOR 1986 REQUIREMENTS

GRADE	DENISON	STOCKTOAN
4T	498.00	516.00
5R	345.00	361.00

ABOVE PRICES ARE PER SHORT TON IN U.S. DOLLARS AND INCLUDES
TRANSPORATION COSTS TO DOOR PLANT.

WE WILL BE CONFIRMING ABOVE BY LETTER THIS WEEK.

HOPING ABOVE SATISFACTORY.

REGARDS,
A.LACHANCE
ASBESTOS THTM
....
DISCONNECTED

JMM 00000051



J-M Manufacturing Company, Inc.
1051 Sperry Road, Stockton, California 95206
Tel:(209) 982-1500 • Telex:359491 • Telecopier:(209) 465-8184

November 22, 1985

***Revised Quotation: See Below; ST should be MLBS

Asbestos Corp. Ltd.
PO Box 519
Thetford-Mines, Quebec
Canada, G6G 5T6
Attn: Claude Limoges

Re: Request for Quotation, 1986

Dear Claude,
Below you will find a list of our raw materials, additives, and/or
operating supplies with our forecast requirements for the year 1986.

No specification is available at this time. Please bid according
to the description listed.

Also, please submit the quotation, with your catalog or literature,
For these products by 12/6/85 or sooner.

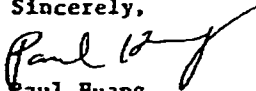
DESCRIPTION:

1986 FORECAST

<u>WHITE ASBESTOS FIBER</u>	<u>DENISON</u>	<u>STOCKTON</u>
**a.) 4 Grade	6,000 MLBS	7,400 MLBS
**b.) 5 Grade	940 MLBS	1,200 MLBS

If there are any questions regarding the above items, please feel free
to call me anytime.

Sincerely,


Paul Huang,
Purchasing Manager

PH/js

enclosures

JMM 00000052

TEL : (514) 281-0141

**EASTERN CHEN TRADING CO., LTD.
LES ENTREPRISES DE L'ORIENT CHEN CO., LTÉE**

1117 Ste-Catherine St. West, Suite 603
Montreal, Quebec, Canada H3B 1H9

September 5, 1986

Ms. Jeannine Simonian
JM Manufacturing Company Inc.
1051 Sperry Road
Stockton, CA.
95206 U.S.A.

Dear Jeannine:

Following our telephone conversation of September 3, 1986,
I would like to provide you with the name and address of
LAB Chrysotile.

LAB CHRYSOTILE, INC.
835 Mooney Street
P.O.Box 459
Thetford-Mines, Quebec
G6G 5T5 CANADA
Tel: (418)338-7500
Telex: 05-833586

JM Manufacturing's account is looked after by Mr. Ken Power.
He can be reached at (418)338-7627

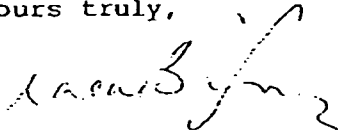
LAB Chrysotile is consisted of three former major asbestos
suppliers, namely,

Lac d'Amiante du Quebec (LAQ)
Asbestos Corporation Ltd.
Bell Asbestos Mine.

This new partnership went into effect on June 18, 1986.

Shall you require any further information, please do not hesitate
to contact me. I remain,

Yours truly,



Bih Ju Chen

/bj

JMM 00000053

LAB

RECEIVED JUL 24 1986

July 8, 1986

Gentlemen:

We wish to inform you that the agreement creating a limited partnership between Lac d'Amiante du Québec, Ltée (LAQ), Asbestos Corporation, Limited and Bell Asbestos Mines, Ltd., has been executed on June 18, 1986. We are convinced that this partnership, which will constitute the largest asbestos supplier in the western world, will ensure your long-term requirements.

The name of the limited partnership will be LAB AND COMPANY, LIMITED while the production and marketing activities will be managed by a company named:

LAB Chrysotile, Inc.,
835 Mooney Street
P.O. Box 459
Thetford-Mines (QC) Canada
G6G 5T5

TELEPHONE: (418) 338-7500
TELEX: 05-833586

LAB Marketing Department will be reorganized as follows:

Roland P. Gagnon V.P. - Marketing	(418) 338-7616
Mrs. Jeannine Lessard Secretary	(418) 338-7617
Jean-Marc Leblond General Director - Marketing	(418) 338-7622
Peter Buchholz General Director - Sales	(418) 338-7623
Harold F.X. Plate Sales Manager (USA & Mexico)	(203) 579-2957
Ken Power Sales Representative (USA & Canada)	(418) 338-7626

.../2

LAB Chrysotile, Inc.
P.O. Box 459
Thetford Mines, Quebec, G6G 5T5
(418) 338-7500
Telex: 05-833586

JMM 00000054

July 8, 1986
Page 2

Marc Roy Sales Office Manager	(418) 338-7620
Mrs. Gisèle Gravel Documentation/Invoicing Supervisor	(418) 338-7627
Len C. Webster Traffic Manager	(418) 338-7621
André Lachance Traffic Supervisor	(418) 338-7625
Bruno Roy Traffic Supervisor	(418) 338-7645

ALL CORRESPONDENCE SHOULD BE ADDRESSED TO:

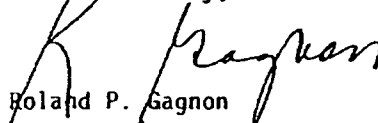
LAB Chrysotile, Inc.,
835 Mooney Street
P.O. Box 459
Thetford-Mines (QC) Canada
G6G 5T5

Production facilities have been reorganized to ensure that the new company will keep offering you high quality fibre and that you will be receiving the same quality fibre as you were supplied heretofore.

All our marketing and technical staff is at your disposal for any inquiries you may have.

We wish to thank you for your continued support of LAB's products and rest assured of our continued interest to supply your requirements of asbestos and remain, with kindest regards,

Yours sincerely,


Roland P. Gagnon

RPG/jgl
cc: File
DFile

JMM 00000055

LAB

EFFECTIVE July 1, 1986

PRICE LIST NO. 100 ASBESTOS FIBRE PRICES

PRICES IN CANADIAN DOLLARS PER METRIC TON
F.O.B. BLACK LAKE OR THETFORD-MINES, QUEBEC, CANADA

STANDARD GRADE DESIGNATION	GUARANTEED MINIMUM TEST	FREIGHT CLASSI- FICATION	PRICE PER METRIC TON	STANDARD GRADE DESIGNATION
3F	10.5-3.9-1.3-0.3	Fibre	\$ 2,443.00	3F
3K	7-7-1.5-0.5	Fibre	2,075.00	3K
3R	4-7-4-1	Fibre	1,764.00	3R
3T	2-8-4-2	Fibre	1,600.00	3T
3Z	1-9-4-2	Fibre	1,569.00	3Z
4A	0-8-6-2	Fibre	1,510.00	4A
4D2	0-7-6-3	Fibre	1,272.00	4D2
4D	0-7-6-3	Fibre	1,227.00	4D
4K	0-4-9-3	Fibre	1,196.00	4K
4M	0-4-8-4	Fibre	1,183.00	4M
4T	0-2-10-4	Fibre	1,083.00	4T
5D	0-0.5-10.5-5	Fibre	838.00	5D
5K	0-0-12-4	Fibre	838.00	5K
5M	0-0-11-5	Fibre	788.00	5M
5R	0-0-10-6	Fibre	711.00	5R
5Z	0-0-8.6-7.4	Fibre	613.00	5Z
6D	0-0-7-9	Waste	521.00	6D
7D	0-0-5-11	Shorts	308.00	7D
7F	0-0-4-12	Shorts	279.00	7F
7H	0-0-3-13	Shorts	230.00	7H
7K	0-0-2-14	Shorts	193.00	7K
7M	0-0-1-15	Shorts	177.00	7M
7R	0-0-0-16	Shorts	164.00	7R
7T	0-0-0-16	Shorts	160.00	7T

Payment in Canadian Funds or U.S. equivalent.

Standard Packaging: 50-kg. bag or 100-lb. bag (depending on the available packaging).

Should any new government taxes be imposed, they will be added to our invoices.

All sales are F.O.B. mine. Freight, insurance and fees are for customer's account. All offers are made subject to prior sale and orders are accepted subject to our ability to deliver.

ALL PRICES ARE SUBJECT TO CHANGE WITHOUT NOTICE. INTEREST WILL BE CHARGED ON OVERDUE ACCOUNTS.

LAB Chrysotile, Inc.

P.O. Box 459
Thetford Mines, Quebec, G6G 5T5
(418) 338-7500
Telex: 05-833586

Issued - July 1, 1986

JMM 00000056

J-M A/C PIPE CORP.

51 S. BERRY ROAD
STOCKTON, CA 95208

Purchase Order

Vendor (Name & Address)

LAC D'AMINATE DU QUEBEC LTD.
C/O EASTERN CHEN TRADING CO., LTD.
1117 STE. CATHERINE ST. WEST
MONTREAL, QUE. CANADA H3B1H9
ATTN: T.Y. CHEN (514) 281-0141

AS RELEASED	Show This No. On Invoice. B/L and Each Package. ↓
2/13/86	JH60036

SHIP TO	J-M MANUFACTURING HIGHWAY 75 N DENISON, TX 75020	DENISON TX	PLANT	DEST.	PPD CHARGE	PPD ALLOWED	COLLECT	Taxable
		SEE ABOVE		XX		XX		%
								Tax Exempt ☒

Item	Quantity	Unit	Description	Unit Price	Extension
BLANKET ORDER FOR RECORD & BILLING PURPOSES ONLY TO COVER OUR PARTIAL REQUIREMENT OF MATERIAL SHOWN BELOW FOR THE PERIOD OF 1-1-86 to 12-31-86.					
			ASBESTOS FIBER 4T-3 (.2422/LB)	\$534/MT	
			ASBESTOS FIBER 5R-3 (.1724/LB)	\$380/MT	
IF KPA OR ANY OTHER GOVERNMENT AGENCIES BAN A/C PIPE IN THE USA, ALL SUPPLIER'S FIBER IN OUR DENISON PLANT WAREHOUSE MAY BE RETURNED FOR FULL CREDIT & FREIGHT WILL BE NEGOTIATED BY BOTH PARTIES. MATERIALS TO BE SUPPLIED WILL BE SHIPPED VIA RIGGYRACK (T.O.F.C.) ON SLIPSHEETS & SHRINK-WRAPPED UNIT.					
AUTHORIZED JH CONTACT: HQ PURCHASING DEPT. OR HAROLD STONE					
REQUIREMENT: UPON RECEIVING BLANKET ORDER, SUPPLIER IS TO SEND CONFIRMED ORDER BACK.					
JMM 00000057					

- Please furnish, subject to the conditions appearing on reverse side of this order.
- Material sold at the delivered prices or freight allowed must be shipped prepaid. No parcel post or insurance charges allowed except as provided above.
- Mail invoice in duplicate & B/L on date of shipment.

By PAUL HUANG

PURCHASING AGENT

**J-M Manufacturing
Company, Inc.**

Purchase Requisition

				P.R. No. H 0066		PR No. (if applicable)																																																																																																																																															
Requisition Dept. BLANKET ORDER		Date Prepared 2-6-86		Date Required as released		Requisitioned By B. Harris																																																																																																																																															
Suggested Vendor				Remarks: (Justification, Package, etc.) Bill to Denison, TX		Deliver to: Denison, TX																																																																																																																																															
Account No.				Project No. (w/o No)		Charge Code/Cost Center																																																																																																																																															
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(Purchasing fill out Shaded areas)

Paul Huang
Purchasing Department

JMM 00000058

PURCHASING

J-M A/C PIPE CORP.

1051 SPERRY ROAD
STOCKTON, CA 95206

Purchase Order

Vendor (Name & Address)

LAC D'AMINATE DU QUEBEC LTD.
C/O EASTERN CHEN TRADING CO., LTD.
1117 STE, CATHERINE ST. WEST
MONTREAL, QUE, CANADA H3B1H9
ATTN: T.Y. CHEN (514) 281-0141

AS RELEASED	Show This No. On Invoice: B/L and Each Package ↓
2/13/86	JH60036

J-M MANUFACTURING HIGHWAY 75 N DENLSON, TX 75020	DENLSON, TX STOCKTON, CA	PLANT DEST. ☐ ☒ ☐ ☒	PPD CHARGE ☐ ☒	PPD ALLOWED ☐ ☒	COLLECT ☐	Taxable ☐
	SEE BELOW	N30				Tax Exempt ☒

Item	Quantity	Unit	Description	Unit Price	Extension
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			ASBESTOS FIBER 5R-3	\$380/MT	
IF EPA OR ANY OTHER GOVERNMENT AGENCIES BAN A/C PIPE IN THE USA, ALL SUPPLIER'S FIBER IN OUR DENLSON PLANT WAREHOUSE MAY BE RETURNED FOR FULL CREDIT & FREIGHT WILL BE NEGOTIATED BY BOTH PARTIES. MATERIALS TO BE SUPPLIED WILL BE SHIPPED VIA PIGGYBACK (T.O.F.C.) ON SLIPSHRETS & SHRINK-WRAPPED UNIT.					
AUTHORIZED JH CONTACT: HQ PURCHASING DEPT. OR HAROLD STONE REQUIREMENT: UPON RECEIVING BLANKET ORDER, SUPPLIER IS TO SEND CONFIRMED ORDER BACK.					
EASTERN CHEN TRADING CO. LTD.					
REC'D BLACK LAKE 24 FEB '86 ☐ JO ☐ BPO ☐ PC ☐ HLP ☐ STR ☐ LK ☐ LER ☐ KP					
JMM 00000059					

- Please furnish, subject to the conditions appearing on reverse side of this order.
- Material sold at the delivered prices or freight allowed must be shipped prepaid. No parcel post or insurance charges allowed except as provided above.
- Mail invoice in duplicate & B/L on date of shipment.

By PAUL HUANG

VENDOR

LAC D'AMIANTE DU QUEBEC, LTEE

M E M O R A N D U M

RECU BLACK LAKE	
25 M '86	
☒	JO
☒	REG
☒	PS
☒	XP
☒	HR
☒	KA
☒	LC
☒	Y2

TO: P. Laroche

FROM: N. Boutet

Date: April 25, 1986

SUBJECT: Crocidolite (blue fibre) from China National Metal

Please find enclosed our laboratory tests results on a crocidolite fibre sample from China National Metal. This sample came to us through Eastern Chen.

Results obtained are a bit confusing. Ro-Tap and Quebec Standard tests show a 5R grade, but Bauer-McNett results indicate a 4T grade. We also note a very high wet volume (in the range of our group 3 fibre) and a very slow drainage rate.

We will run a fibre strength unit test on the remaining fibre and base the evaluation of our closest matching grade mostly on that result. A complementary report will be issued as soon as F.S.U. results are known.

Normand Boutet

N. Boutet

NB/dbm

cc: AGauthier
RPGagnon
GVerreault
CBernier
Lab
File

Copy to: P. W. W. ✓
This report was Lac did for Eastern Chen concerning the blue fibre for China.

Did you have any response back from Calaveras? Let me know.

② File w/Lac - Asbestos fibre 5/1/86

JMM 00000060

LAC D'AMIANTE DU QUEBEC, LTEE

DIVISION BLACK LAKE DIVISION

CONTROLE DE LA QUALITE - QUALITY CONTROL RESULTATS DE TESTS EN LABORATOIRE - LABORATORY RESULTS

CLIENT OU DEPARTEMENT
CUSTOMER OR DEPARTMENT

EASTERN CHEN

DATE: APRIL 25, 1986

CH	ILLON - SAMPLE (GRADE)	CROCIDOLITE (BLUE FIBRE)			
RECHARGE - BAGGING		FROM CHINA			
COMMANDE - ORDER NO.		NATIONAL			
AGON - CAR NO.		METAL			
QUANTITE - TONS					
DATE		LAB. NO.			
SHIFT		4683			
ANALYSE (1 LB. - 1 MIN. 50 SEC.)					
1/2 PO. - INCH.					
4 M.		0.4			
10 M.		11.6			
35 M.		3.3			
PAN		0.7			
ITAP	4 + 5	6 + 70	7		
1/MIN.	80/10	100/10	100/30		
	3	4	5	6	1.2
	4	6	10	14	4.0
	6	10	14	20	40.0
	10	20	20	28	34.0
	20	35	35	35	13.0
	35	65	65	65	3.8
	PAN	PAN	PAN	PAN	4.0
NE - (20 MIN.)					
GR.	10 GR.				
M.	4 M.	30.0			
M.	14 M.	12.0	42.0		
M.	35 M.	10.0			
M.	200 M.	18.0			
M.	200 M.	30.0			
SAI DE LAVAGE 5M TEST	- 200 M. (%)				
T % (100 GR.)		4.5			
ARTICULES + 20M. ROCK PARTICLES		L.			
FORNETS + 20 M. U.F.P.		M.			
ITENU ROCHEUX (%) ROCK CONT.					
A SEC. (100 GR.) C.C.					
A L'EAU (100 GR.-2 HRS) C.C.		1900			
A L'EAU (20 GR.-4 HRS) C.C.					
POSITE - VISCOSITY					
ROSENE C.C. 100 GR.					
METRATION					
UNAGE - FILTRATION (SEC.)		464			
FACE - R.S.A. (CM. ² /GR.)		6700			
LEUR - COLOR					
J. (IND.)					
REMARKS					
UBLE CHLORIDES (PPM)		60			

JMM 00000061

J-M Manufacturing Company, Inc. *JM Pipe* Purchase Requisition

P.R. No. H 0013		P.O. No./Release No. JH 60036				
Requisition Dept. <i>Sheet Order</i>	Date Prepared <i>7/6/78</i>	Date Required <i>as released</i>	Requisitioned By <i>B. Harris</i>			
Suggested Vendor		Remarks: (Justification, Package, etc.) <i>Bill to PZY, TX</i>	Deliver to: <i>PZY, TX</i>			
Est. Date of Order	Date Ordered	Schedule Delivery	☒ C.O.D. ☒ C.O.D. ☐ C.O.D. ☒ C.O.D. ☐ C.O.D.			
To: <i>Eastern Chlor. Trading Co., LTD.</i> <i>1117 STE. Catherine St. West</i> <i>Montreal, QUE., Canada H3B 1H9</i> <i>(514) 281-2141</i>		Ship Via <i>see below</i> Terms <i>N/30</i>	Est. Freight Taxable ☐			
Confirm to: <i>H. Y. Chan</i>		Account No. Project No. (w/o No.)	Charge Code/Cost Center ☒ Tax Exempt			
Receiving	Item	Qty.	Unit	Commodity Description	Unit Price	Extension
				<i>SCD</i>		
				<i>1. Asbestos Fiber 4T-3</i>	<i>\$534.75</i>	
				<i>2. " SR-3</i>	<i>\$381.75</i>	
<i>If EPA or any other government agencies want %c pipe in the USA. M/Lace fiber in JM denim plant warehouse may be returned for credit & freight will be negotiated by both parties. Materials to be shipped supplied will be shipped via Piggyback (T.O.F.C.) on flat sheets & shrink-wrapped unit. Authorized JM contact: HQ Purchasing Dept. or Harold Stone. Upon receiving blanket order, supplier to send confirmed order back as required.</i>						
Date Received		APPROVAL		President	V.P.	Manager
Partial or Complete						
Received By						

(Purchasing fill out Shaded areas)

P. 127
Purchasing Department

PURCHASING

JMM 00000062



J-M Manufacturing Company, Inc.

1051 Sperry Road, Stockton, California 95206

Tel:(209) 982-1500 • Telex:359491 • Telecopier:(209) 465-8184

November 22, 1985

***Revised Quotation: See Below; ST should be MLBS

Lac. D'Amiante Du Quebec Ltd.
C/O Eastern Chen Trading Co., Ltd.
1117 Suite-Catherine St. West
Montreal, Que. Canada H3B 1H9
(514) 281-0141
Attn: Mr. T. Chen

YT

SR

DTN
STK
\$49.74 (534.74) \$60.74 (515.74)
(485.74)
\$38.74 (385.74) \$38.74 (348.74)
P-12/85
Paul Huang

Re: Request for Quotation, 1986

Dear Mr. Chen,

Below you will find a list of our raw materials, additives, and/or operating supplies with our forecast requirements for the year 1986.

No specification is available at this time. Please bid according to the description listed.

Also, please submit the quotation, with your catalog or literature, For these products by 12/6/85 or sooner.

DESCRIPTION

1986 FORECAST

WHITE ASBESTOS FIBER

DENISON

STOCKTON

*** a.) 4 Grade

6,000 MLBS

7,400 MLBS

*** b.) 5 Grade

940 MLBS

1,200 MLBS

If there are any questions regarding the above items, please feel free to call me anytime.

Sincerely,

Paul Huang,
Purchasing Manager

PH/js

enclosures

JMM 00000063

J-M A/C PIPE CORP.

1051 SPERRY ROAD
STOCKTON, CA 95206

Purchase Order

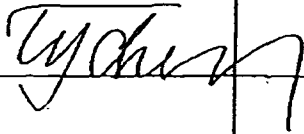
CHANGE MARKET ORDER

Vendor (Name & Address)

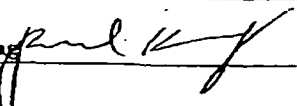
GI to Chrysotile, Inc.
c/o Eastern Chen Trading Co., Ltd.
1117 Ste-Catherine St. West Suite 603
Montreal, Quebec, Canada H3B1H9
(514) 281-0141

Delivery Schedule	Show This No. On Invoice
Issue Date	B/L and Each Package
10-16-86	JH60036

J-M Manufacturing Co., Inc. Denison, Tx. 75020	Bill To	FOR	PLANT	DEST.	PPD CHARGE	PPD ALLOWED	COLLECT	Taxable
	Ship Via	Terms	☐	☒	☐	☐	☐	%
	rail	N30						Exempt ☒

Item	Quantity	Unit	Description	Unit Price	Extension
Effective 10-3-86, the price of 4T asbestos fiber should be revised from \$534./MT to \$519./MT & firm through 12-31-86.					
The rest of this order remains unchanged.					
LAB Chrysotile, Inc. P. O. BOX 459 THETFORD MINES, QUEBEC G6G 5T5 (418) 338-7500 TELEX: 05-833586  EASTERN CHEN TRADING CO. LTD. 					
JMM 00000064					

- Please furnish, subject to the conditions appearing on reverse side of this order.
- Material sold at the delivered prices or freight allowed must be shipped prepaid. No parcel post or insurance charges allowed except as provided above.
- Mail invoice in duplicate & B/L on date of shipment.

By Paul Huang 

VENDOR

J-M A/C PIPE CORP.

1051 SPERRY ROAD
STOCKTON, CA 95206

Purchase Order

Vendor (Name & Address)

Lab Chrysotile, Inc.
c/o Eastern Chen Trading Co., Ltd.
1117 Ste-Catherine St. West Suite 603
Montreal, Quebec, Canada H3B1R9
(514) 281-0141

Delivery Schedule as released	Show This Po On Invoice B/L and Each Package
Issue Date 10-16-86	Purchase Order No. JH60092

J-M Manufacturing Co., Inc. 1051 Sperry Rd. Stockton, Ca. 95206	Bill To: Bill to Stockton, Ca.	FOR: PLANT DEST. ☐ CHARGE ☐ PPO ALLOWED ☐ COLLECT ☐	Taxable %
	Ship Via rail	Terms N30	Tax Exempt ☒

Item	Quantity	Unit	Description	Unit Price	Extension
BLANKET ORDER FOR RECORD & BILLING PURPOSES ONLY TO COVER OUR PARTIAL REQUIREMENT OF MATERIAL SHOWN BELOW <u>FIRM FARGUEH</u> 12-31-86					
			1. Asbestos Fiber 4T-3	\$519./MT	
IF EPA OR ANY OTHER GOVERNMENT AGENCIES BAN A/C PIPE IN THE USA, ALL SUPPLIER'S FIBER IN OUR <u>Stockton</u> PLANT WAREHOUSE MAY BE RETURNED FOR FULL CREDIT & FREIGHT WILL BE NEGOTIATED BY BOTH PARTIES. MATERIALS TO BE SUPPLIED WILL BE SHIPPED VIA <u>RAIL</u> ON SLIPSHERTS & SHRINK-WRAPPED UNIT.					
AUTHORIZED J-M CONTACT: HQ PURCHASING DEPT. OR D.W. Wilkinson REQUIREMENT: UPON RECEIVING BLANKET ORDER, SUPPLIER IS TO SEND CONFIRMED ORDER BACK.					
LAB Chrysotile, Inc. P. O. BOX 459 THEFTORD MINES, QUEBEC, G6G 5T5 (418) 338-7500 TELEX: 05-833586 <i>Ken Power</i> EASTERN CHEN TRADING CO. LTD. <i>Ty Chen</i> JMM 00000065					

- Please furnish, subject to the conditions appearing on reverse side of this order.
- Material sold at the delivered prices or freight allowed must be shipped prepaid. No parcel post or insurance charges allowed except as provided above.
- Mail invoice in duplicate & B/L on date of shipment.

By Paul H. Hing

VENDOR

J-M A/C PIPE CORP.

1031 SPERRY ROAD
STOCKTON, CA 95206

Purchase Order

Vendor (Name & Address)

Lab Chrysotile, Inc.
c/o Eastern Chen Trading Co., Ltd.
1117 Ste-Catherine St. West Suite 603
Montreal, Quebec, Canada H3B1H9
(514) 281-0141

as released	Show This No. On Invoice, B/L and Each Package. ↓
10-16-86	JH60092

J-M Manufacturing Co., Inc. 1051 Sperry Rd. Stockton, Ca. 95206	Bill to Stockton, Ca.	PLANT DEST. ☐ CHARGE ☐ PPD ALLOWED ☐ COLLECT ☐	Taxable ____ %
	rail	N30	Tax Exempt ☒

Item	Quantity	Unit	Description	Unit Price	Extension
BLANKET ORDER FOR RECORD & BILLING PURPOSES ONLY TO COVER OUR PARTIAL REQUIREMENT OF MATERIAL SHOWN BELOW FOR THE PERIOD OF 1-1-87 to 12-31-87.					
			1. Asbestos Fiber 4T-3	\$519./MT	
IF EPA OR ANY OTHER GOVERNMENT AGENCIES BAN A/C PIPE IN THE USA, ALL SUPPLIER'S FIBER IN OUR <u>Stockton</u> PLANT WAREHOUSE MAY BE RETURNED FOR FULL CREDIT & FREIGHT WILL BE NEGOTIATED BY BOTH PARTIES. MATERIALS TO BE SUPPLIED WILL BE SHIPPED VIA PIGGYBACK (T.O.B.C.) ON SLIPSHEETS & SHRINK-WRAPPED UNIT.					
AUTHORIZED J-M CONTACT: HQ PURCHASING DEPT. OR <u>D.W. Wilkinson</u>					
REQUIREMENT: UPON RECEIVING BLANKET ORDER, SUPPLIER IS TO SEND CONFIRMED ORDER BACK.					
JMM 00000066					

- Please furnish, subject to the conditions appearing on reverse side of this order.
- Material sold at the delivered prices or freight allowed must be shipped prepaid. No parcel post or insurance charges allowed except as provided above.
- Mail invoice in duplicate & B/L on date of shipment.

By Paul Hanaag
PURCHASING AGENT

J-M A/C PIPE CORP.

1051 SPERRY ROAD
STOCKTON, CA 95208

Purchase Requisition

RECEIVED OCT 21 1986

P.R. No. H 8136	P.O. No. (Reference) 3860092
---------------------------	--

Requisition Dept. Blanket order	Date Prepared 10-16-86	Date Required	Requisitioned By	Project No. (w/o No.) 188881	Change No.
---	----------------------------------	---------------	------------------	--	------------

Suggested Vendor	Remarks: (Justification, Package, etc.) Bill to Stockton, Ca.	Deliver to: Stockton, Ca.
------------------	---	-------------------------------------

Est. Date of Order	Date Ordered	Schedule Delivery	FOB PLANT ☐ DEST ☒	PPD CHARGE ☐	PPD ALLOWED ☐	COLLECT ☐	Est. Freight
--------------------	--------------	-------------------	--	-------------------------------------	--------------------------------------	----------------------------------	--------------

Ordered From: Lab Chrysotile, Inc. c/o Eastern Chen Trading Co., Ltd 1117 Ste Catherine St. West Suite 603 Montreal, Quebec, Canada H3B1H9 (514) 281-0151	Ship Via rail	Terms n30	Confirm to: T. Y. Chen	Charge Code
Taxable ☐ %			☒ Tax Exempt	Account No.

Requisition			Item	Qty	Unit	Complete Description	Unit Price	Extension
C	E	A						
			BLANKET ORDER FOR RECORD & BILLING PURPOSES ONLY TO COVER OUR PARTIAL REQUIREMENT OF MATERIAL SHOWN BELOW FOR THE PERIOD OF 1-1-87 to 12-31-87.					
						1. Asbestos Fiber 4T-3	\$5.19 / MT	
						XXXXXXXXXXXXXXXXXXXX		
						IF EPA OR ANY OTHER GOVERNMENT AGENCIES BAN A/C PIPE IN THE USA, ALL SUPPLIER'S FIBER IN OUR Stockton PLANT WAREHOUSE MAY BE RETURNED FOR FULL CREDIT & FREIGHT WILL BE NEGOTIATED BY BOTH PARTIES. MATERIALS TO BE SUPPLIED WILL BE SHIPPED VIA PIGGYBACK (I.O.F.C.) ON SLIPSHEETS & SHRINK-WRAPPED UNIT.		
						AUTHORIZED IN CONTACT: HQ PURCHASING DEPT. OR DIRECTOR D.W. Wilkerson		
						REQUIREMENT: UPON RECEIVING BLANKET ORDER, SUPPLIER IS TO SEND CONFIRMED ORDER BACK.		
							Total	

Date Received	APPROVAL	President	V.P.	Manager	Section Head
Partial or Complete					
Received By					

(Purchasing fill out Shaded areas)

JMM 00000067

Paul Huang
Purchasing Department

PURCHASING

JM A/C PIPE CORP.

1051 SPERRY ROAD
S. JACKSON, CA 95208

Purchase Order

CHANGE BLANKET ORDER

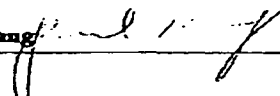
Vendor (Name & Address)

Lab Chrysotile, Inc.
1028/o Eastern Chen Trading Co., Ltd.
1117 Ste-Catherine St. West Suite 603
Montreal, Quebec, Canada H3B1E9
(514) 281-0141

Show This No. On Invoice, B/L and Each Package. ↓	
10-16-86	JMS0036

S T I P U L A T I O N	J-M Manufacturing Co., Inc. Highway 73N Denison, Tx. 75020	PLANT	DEST.	CHARGE	ALLOWED	COLLECT	Taxable ____ %
		☐	☒	☐	☐	☐	
	rail						Tax Exempt ☒

Item	Quantity	Unit	Description	Unit Price	Extension
Effective 10-3-86, the price of 4T asbestos fiber should be revised from \$534./MT to \$519./MT & firm through 12-31-86.					
The rest of this order remains unchanged.					
JMM 00000068					

NOT-TO-RE-USE	1. Please furnish, subject to the conditions appearing on reverse side of this order.	By Paul Huang 
	2. Material sold at the delivered prices or freight allowed must be shipped prepaid. No parcel post or insurance charges allowed except as provided above.	
	3. Mail invoice in duplicate & B/L on date of shipment.	

PURCHASING AGENT

1051 SPERRY ROAD
STOCKTON, CA 95208

RECEIVED OCT 21 1986

P.R. No. H 8137	P.G. No. (Release No.) JH60036
---------------------------	--

Acquisition Dept.	Date Prepared	Date Required	Requisitioned By	Project No. (w/o No.)	Change No.
Change Blanket order	10-16-86		Bill Harris		1

Suggested Vendor	Remarks: (Justification, Package, etc.)	Deliver to:
		Denison, TX.

Est. Date of Order	Date Ordered	Schedule Delivery	FOB PLANT	DEST	NO CHARGE	NO ALLOWED	COLLECT	Est. Freight
			☒	☒	☒	☒	☒	

Order# 0000000000	Ships Via FedEx	Terms Net 30	P.O. No.
-------------------	--------------------	-----------------	----------

Continued from preceding page		
Chen, T.Y., Chen Trading Co., Ltd. T.Y. & Catherine St., West Suite 603 Montreal, Quebec, Canada H3B1H9	Continue to: T.Y. Chen	Charge Code

Taxable	☒	Tax Exempt	☐	Account No.
---------	-------------------------------------	------------	--------------------------	-------------

[illegible]

			Date Received	APPROVAL	President	V.P.	Manager	Section Head	
			Partial or Complete						
			Received By						JMM 00000069

(Purchasing fill out Shaded areas)

JMM 00000069

Paul Huang
Purchasing Department



J-M Manufacturing Company, Inc.

QUOTATIONS

DATE:

VENDOR(S)	ITEM NUMBER	VENDOR 1	VENDOR 2	VENDOR 3	4	VENDOR #5
1. J M Asbestos	D2N, TX					C2G5
	4T	\$480/MT \$535/MT (485.5/ST)	\$548/MT \$534/MT (488.6/ST)	\$499/ST	\$390/ST F. 505/ST \$440/ST	\$544/MT \$579/MT (462.2/ST) VRA/MT \$402/MT 398.6/MT (361.2/ST)
	5R	\$387/MT	\$380/MT (385/ST)	\$345/ST	\$340/ST F. 555/ST 390/ST	
2. Lac	STK, CO					
	4T	\$508/MT 555/MT (504.7/ST)	\$508/MT	\$516/ST	\$470/ST F. 105/ST 490/ST	
	5R	\$387/MT	\$399/MT \$385/MT (388/ST)	\$361/ST	\$340/ST F. 105/ST 350/ST	25/ST 325/ST
3. Asbestos Corp.						
4. Calaveras	TOTAL					
5. Mineral	SHIP/DELIV. POINT	Delivng.	Delivng.	Delivng.	Delivng.	Delivng.
	TERMS					
	PROM. DELIV.					

PURCHASE AGENT OPINION: D2N 4T 5R STK 4T 5R

JMM 00000070

- '85 prices are \$515/ST \$385/ST \$499/ST \$385/ST
 - T.E. Lohman's comment on C2G5: not consistent quality.
 - All the white fiber suppliers agree to take fiber back in case 2P8 or other government agencies ban 4C pipe in the USA except Mineral only agree to assist re-selling our inventory. Thus although Mineral is the 2nd low bidder for D2N, TX, we should not consider C2G5.
- APPROVED BY: 4. Based on all bidders' quotation, propose to have Calaveras supply to STK, CO. IF THE APPROVAL IS ON THIS SHEET, A COPY OF THIS SHEET SHOULD BE SENT TO cfa 4T & 5R & D2N for 4T. & have Lac to supply to D2N for 5R. ACCOUNTING. ****
- However due to Calaveras' 4T fiber is new to D2N, TX, so before the Al-KT3 production performance was confirmed by D2N plant. Shall there be any requirement of 4T fiber at D2N, TX, we should order from Lac.
5. Annual saving are \$221,100 based on whole year operation.

J-M A/C PIPE CORP.

151 SPERRY ROAD
STOCKTON, CA 95206

Purchase Order

~~CHANGE REQUEST ORDER~~

Order (Name & Address)

Calaveras Asbestos Ltd.
P.O. Box 127
Copperopolis, Ca. 95228
ATTN: Mr. Gordon Coats
(209) 785-2201

as released	Show This No. On Invoice, B/L and Each Package. ↓
10-16-86	JH60035

J-M Manufacturing Co., Inc. 1051 Sperry Rd. Stockton, Ca. 95206	BUILDING	PLANT	DEST.	PPD CHARGE	PPD ALLOWED	COLLECT	Taxable ____ %
	truck			☒	☐	☐	Tax Exempt ☒

Item	Quantity	Unit	Description	Unit Price	Extension
Effective 10-16-86 the price of 4T asbestos fiber will be revised from \$470./ST to \$460./ST & firm through 12-31-86. The rest of this order remains unchanged.					
JMM 00000071					

1. Please furnish, subject to the conditions appearing on reverse side of this order.
2. Material sold at the delivered prices or freight allowed must be shipped prepaid. No parcel post or insurance charges allowed except as provided above.
3. Mail invoice in duplicate & B/L on date of shipment.

By Paul Huang

PURCHASING AGENT

1051 SPERRY ROAD
STOCKTON, CA 95208

RECEIVED OCT 21 1986

[illegible]

(Purchasing fill out Shaded areas)

Paul Huang
Purchasing Department

PURCHASING

1051 SPERRY ROAD
STOCKTON, CA 95206

Vendor (Name & Address)

CALAVERAS ASBESTOS LTD.
PO BOX 127
COPPERPOLIS, CA. 95228
ATTN: GORDON A. COATS
(209)785-2201

Belmont School	Show This No. On Invoice, B/L and Each Package. ↓
AS RELEASED	
2/14/86	JH60035

J-M MANUFACTURING 1051 SPERRY ROAD STOCKTON, CA. 95206 <u>ATT</u>	STOCKTON, HQ ACCT	PLANT DEST. ☒ SP ☐ CH ☐ AL ☒ COLLECT	Taxable _____ %
	ESTIMATED FREIGHT TRUCK: \$10.00/ST	N30	Tax Exempt ☒

Item	Quantity	Unit	Description	Unit Price	Extension
BLANKET ORDER FOR RECORD AND BILLING PURPOSES ONLY TO COVER OUR PARTIAL REQUIREMENT OF MATERIAL SHOWN BELOW FOR THE PERIOD OF 1-1-86 TO 12-31-86.					
			ASBESTOS FIBER 4T GRADE	\$470/ST	
			ASBESTOS FIBER 5R GRADE	\$325/ST	
IF EPA OR ANY OTHER GOVERNMENT AGENCIES BAN A/C PIPE IN THE USA, ALL SUPPLIERS FIBER IN OUR STOCKTON PLANT WAREHOUSE MAY BE RETURNED FOR FULL CREDIT & FREIGHT WILL BE NEGOTIATED BY BOTH PARTIES. MATERIALS TO BE SUPPLIED WILL BE PACKED WITH SHRINK-WAPPED UNIT.					
AUTHORIZED JM CONTACT: HQ PURCHASING DEPT. OR D.W. WILKINSON					
REQUIREMENT: UPON RECEIVING BLANKET ORDER, SUPPLIER IS TO SEND CONFIRMED ORDER BACK.					

JMM 00000073

1. Please furnish, subject to the conditions appearing on reverse side of this order.
2. Material sold at the delivered prices or freight allowed must be shipped prepaid. No parcel post or insurance charges allowed except as provided above.
3. Mail invoice in duplicate & B/L on date of shipment.

By PAUL HUANG

PURCHASING AGENT

Purchase Requisition

P.R. No.	RC No. (Release No.)
H 8018	HR 0035

Division Dept.		Date Prepared	Date Required	Requisitioned By	Project No. (w/o No.)	Change No.
BLANKET ORDER		2/5/86	as released	B. Harris		
Suggested Vendor			Remarks: (Justification, Package, etc.)			Deliver to:
			BILL TO Stockton, Ca.			Stockton, Ca.
Est. Date of Order	Part Ordered	Schedule Delivery	FOB: ☐ Factory ☒ Ship's Deck ☐ Barge ☐ ☐ CFS ☐ Warehouse ☐ Other _____			Est. Freight
						\$10./ST
Ordered From: Cable Air Conditioning Co. P.O. Box 127 Chicopee Falls, Ca. 95228 Attn: Gordon A. Coate 41083-786-2700			Invoice # W30		MO-Nr	
			Continuation Gordon A. Coate		Charge Code	
			Taxable ☐ Tax Exempt ☒		Account No.	
Quantity	Item	Qty.	Unit	Complete Description	Unit Price	Extension
				BLANKET ORDER FOR RECORD & BILLING PURPOSES ONLY TO COVER OUR PARTIAL REQUIREMENT OF MATERIAL SHOWN BELOW FOR THE PERIOD OF 1-1-86 to 12-31-86.		
				1. Asbestos Fiber 4T grade	\$2703.00	1 TON THROUGH
				2. Asbestos Fiber 5R grade	\$275.00	1 TON THROUGH
IF EPA OR ANY OTHER GOVERNMENT AGENCIES BAN A/C PIPE IN THE USA AND SUPPLY OF FIBER IN OUR STOCKTON PLANT WAREHOUSE MAY BE RETURNED FOR FULL REFUND. THIS WILL BE NEGOTIATED BY BOTH PARTIES. MATERIALS TO BE SUPPLIED WITH SHRINK-WRAPPED UNIT.						
AUTHORIZED JM CONTACT: HQ PURCHASING DEPT. OR D.W. WILKINSON REQUIREMENT: UPON RECEIVING BLANKET ORDER, SUPPLIER IS TO SEND CONFIRMED ORDER BACK						
					Total	
Date Received		President		V.P.	Manager	Section Head
Partial or Complete		APPROVAL				
Received By						
JMM 00000074						

(Purchasing fill out Shaded areas)

JMM 00000074

Purchasing Department

PURCHASING

4T 3700 tons ($\frac{S}{T}$) @ \$470/-/ton FOB Min.
10- 2.1
480- FOB Sthm.

1300 tons ($\frac{S}{T}$) @ \$390/-/ton FOB Min.
50-/ST Freight
5000 tons 440-/ST

5R 600 tons @ \$340/-/ton FOB Min.
325-/ST

per Gordon Coats on 1/21/80

fuel

5



J-M Manufacturing Company, Inc.

1051 Sperry Road, Stockton, California 95206
Tel:(209) 982-1500 • Telex:359491 • Telecopier:(209) 465-8184

November 22, 1985

***Revised Quotation: See Below; ST should be MLBS

Calas, S.S., Ltd.

Copperopolis, Ca. 95228

Attn: Gordon Coats

(10) 30

Re: Request for Quotation, 1986

Dear Gordon,

Below you will find a list of our raw materials, additives, and/or operating supplies with our forecast requirements for the year 1986.

No specification is available at this time. Please bid according to the description listed.

Also, please submit the quotation, with your catalog or literature, For these products by 12/6/85 or sooner.

DESCRIPTION:

1986 FORECAST

<u>WHITE ASBESTOS FIBER</u>	<u>DENISON</u>	<u>STOCKTON</u>
***a.) 4 Grade	6,000 MLBS	7,400 MLBS
***b.) 5 Grade	940 MLBS	1,200 MLBS

If there are any questions regarding the above items, please feel free to call me anytime.

Sincerely,



Paul Huang
Purchasing Manager

PH/js

enclosures

JMM 00000076

RECEIVED 12 11 1985



December 4, 1985

Mr. Paul Huang, Purchasing Manager
JM Manufacturing Company, Inc.
1051 Sperry Road
Stockton, CA 95206

Dear Paul,

I am leaving on an extended business trip to Europe on Thursday, December 5, 1985, and will return to San Francisco the night of Thursday, December 19th. I would be pleased to meet you in your office on Friday, the 20th, about 10 a.m.

As of this date, I have not heard of any definite 1986 pricing. One U.S. customer told me yesterday that a Canadian asbestos supplier advised him his price would not increase in 1986, but would remain the same.

We are most interested in serving your Company in 1986, not only with our quality fiber, but also the service we can offer. I don't want any misunderstandings with you as occurred last year. We obviously must be competitive, and can supply you F.O.B. your facility in Stockton at a lesser price than other, more distant mines.

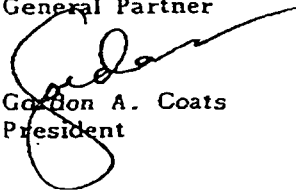
It is also possible that while on this trip I will learn about 1986 prices. If this is the case I will telephone you from wherever I am.

I look forward to visiting with you within two weeks.

Best regards.

Yours,

CALAVERAS NATURAL RESOURCES, INC.
General Partner


Gordon A. Coats
President

GAC:tc

JMM 00000077

J-M A/C PIPE CORP.

1051 SPERRY ROAD
STOCKTON, CA 95206

Purchase Order

ENTERED FEB 20 1986

Vendor (Name & Address)

CALAVERAS ASBESTOS LTD.
PO BOX 127
COPPERPOLIS, CA. 95228
ATTN: GORDON A. COATS
(209) 785-2201

Delivery Schedule	Show This No. On Invoice.
AS RELEASED	B-1 and Each Package. ↓
Issue Date	Purchase Order No.
2/14/86	JH60035

J-M MANUFACTURING 1051 SPERRY ROAD STOCKTON, CA. 95206 ATTN: JMM	BILL TO: STOCKTON, HQ ACCT	FOB: PLANT DEST. XX SP ☐	PPD CHARGE ☐	PPD ALLOWED ☐	COLLECT ☒	Taxable ____ %
Ship Via	ESTIMATED FREIGHT	Terms				Tax Exempt ☒
TRUCK:	\$10.00/ST	N30				

Item	Quantity	Unit	Description	Unit Price	Extension
			BLANKET ORDER FOR RECORD AND BILLING PURPOSES ONLY TO COVER OUR PARTIAL REQUIREMENT OF MATERIAL SHOWN BELOW FOR THE PERIOD OF 1-1-86 TO 12-31-86.		
			ASBESTOS FIBER 4T GRADE	\$470/ST	
			ASBESTOS FIBER 5R GRADE	\$325/ST	
			IF EPA OR ANY OTHER GOVERNMENT AGENCIES BAN A/C PIPE IN THE USA, ALL SUPPLIER'S FIBER IN OUR STOCKTON PLANT WAREHOUSE MAY BE RETURNED FOR FULL CREDIT & FREIGHT WILL BE NEGOTIATED BY BOTH PARTIES. MATERIALS TO BE SUPPLIED WILL BE PACKED WITH SHRINK-WRAPPED UNIT.		
			AUTHORIZED J-M CONTACT: HQ PURCHASING DEPT. OR D.W. WILKINSON		
			REQUIREMENT: UPON RECEIVING BLANKET ORDER, SUPPLIER IS TO SEND CONFIRMED ORDER BACK.		
<i>Approved</i> <i>Paul Huang</i> <i>Calaveras Asbestos Ltd.</i> <i>2-18-86</i>					
JMM 00000078					

- Please furnish, subject to the conditions appearing on reverse side of this order.
- Material sold at the delivered prices or freight allowed must be shipped prepaid. No parcel post or insurance charges allowed except as provided above.
- Mail invoice in duplicate & B/L on date of shipment.

By PAUL HUANG

VENDOR

RECEIVED Feb 07 1986



February 6, 1986

Mr. Paul Huang, Purchasing Manager
J-M A/C Pipe Corporation
1051 Sperry Road
Stockton, CA 95206

Dear Paul,

Enclosed are two communications from AIA.

The EPA announcement is only a proposal and it seems that everyone except EPA doesn't think there is a chance it will become law.

Thank you for your order for 1986 at Stockton. Hopefully, we will be able to serve you at Denison.

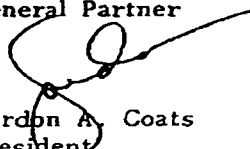
The special rail rate we requested to Denison has been approved and should become effective on or about February 14, 1986. I believe that this will be about \$50/ton.

This letter also confirms our agreement of yesterday to a 5R price of \$325/ton, F.O.B. Mill, Copperopolis, California.

Best wishes.

Yours,

CALAVERAS NATURAL RESOURCES, INC.
General Partner



Gordon A. Coats
President

GAC:tc

JMM 00000079



Gordon A. Coats
General Manager

RECEIVED FEB 20 1986

February 19, 1986

Mr. Paul Huang, Purchasing Manager
J-M A/C Pipe Corporation
1051 Sperry Road
Stockton, CA 95206

Dear Mr. Huang,

I have just been notified by the Santa Fe Railroad representative that the rate to Denison, Texas which we have been negotiating with them, has been approved and is effective this date.

In view of this we hope to be able to competitively supply fiber to your Denison, Texas facility.

Gordon is away on a very extensive sales trip, but if you have any questions please give me a call.

Yours,

Terri L. Cantrell, Secretary
to Gordon A. Coats

8-1-'86

- PAUL HUANG - Corp Purchasing

RECEIVED AUG 4 1986

As it states:

CAN REPLACE COATINGS - ADHESIVES -
SEALANTS - ASPHALTIC COMPOUNDS!

REQUIRES ONLY 6-GRADE FIBRE
WITH VERY LOW FILTERING PROPERTIES,
LOW TENSILE STRENGTH AND VERY SHORT AND
DIRTY.

THE ABOVE DESCRIPTION IS WHAT THE
MAN-MADE FIBERS ARE REPLACING.

SYNTHETIC HAS NOT BEEN ABLE TO REPLACE
GRADE 4 PROPERTIES FOR USE IN PIPE.

I HAVE BEEN FOLLOWING VERY CLOSE THROUGH
A.S.T.M. WITH BEST CHEMICAL CO'S. IN THE
WORLD. NOTHING YET.

Bill Wilson

PLUESS-STAUFER (CALIFORNIA) INC.

RECEIVED JUN 06 1986

OKA.

P.O. BOX 825, LUCERNE VALLEY, CA. 92356

TEL. (619) 248-7306

TLX WU 676 344

Mr. Paul Huang
J-M MANUFACTURING, INC.
1051 Sperry Road
Stockton, California 95206

*Copy to P. W. Wilkinson - STK.
might be worthy a trial
your comment pls.*

YOUR REF.

OUR REF.

LUCERNE VALLEY

June 3, 1986

Paul 6/3/86

Dear Paul,

Re: Cellulosic Fibers (Interfibe)

As promised to you in our last meeting, please find enclosed specifications of these products which are used to replace asbestos.

We have taken the representation of these products recently. If you have any questions please feel free to call us.

Sincerely,
PLUESS-STAUFER (California), INC.



Kurt Enderli
President

enclosure

JMM 00000082

INTERFIBE 205 Specification Sheet

GENERIC DESCRIPTION:	Blended cellulosic fibers and surfactants.
COLOR:	Blue Gray
SPECIFIC GRAVITY:	1.1
FIBER LENGTH:	mm Average — 1.5 - 3.0 Maximum — 4.0
FIBER DIAMETER:	μ 30 - 40
SURFACE:	Hydrophilic
MOISTURE CONTENT:	3.5%
CHAR POINT:	550°F
PRIMARY USES:	Reinforcement filler for asphaltic emulsions, latex and textured coatings.
BAG SIZE:	50 pound bag 28" long x 18" wide x 10" high.
BAG MATERIAL:	4 mil low-lineal density polyethylene.
PALLET SIZE & WEIGHT:	Oak 58" x 40", 4 way entry pallet — Oak 54" x 37" top frame. Approximately 40 pounds per pallet and top combined. Overall dimensions 58" long x 40" wide x 50" high. Shipping weight net / gross per bag per skid 800 pounds net / 840 pounds gross



INTERFIBE A TRADEMARK OF SULLIVAN CHEMICAL

JMM 00000083

We cannot anticipate all conditions under which this information and our products, or the products of other manufacturers in combination with our products, may be used. We accept no responsibility for results obtained by the application of this information or the safety and suitability of our products, either alone or in combination with other products. Users are advised to make their own tests to determine the safety and suitability of each such product or product combination for their own purposes. Unless otherwise agreed in writing, we sell the products without warranty, and buyers and users assume all responsibility and liability for loss or damage arising from the handling and use of our products, whether used alone or in combination with other products.

INTERFIBE WF Specification Sheet

GENERIC DESCRIPTION:	Cellulosic fiber and other chemical inert fillers.
COLOR:	Gray
SPECIFIC GRAVITY:	1.0
FIBER LENGTH:	mm Average — 0.6 — 1.4 Maximum — 2.0
FIBER DIAMETER:	μ 30 — 40
SURFACE:	Hydrophobic
MOISTURE CONTENT:	2.2%
CHAR POINT:	550°F
OIL ABSORPTION:	Six times its own weight.
PRIMARY USES:	Reinforcement filler for undercoatings, sealants, caulks, and coatings.
BAG SIZE:	50 pound bag 28" long x 18" wide x 10" high.
BAG MATERIAL:	4 mil low-lineal density polyethylene.
PALLET SIZE & WEIGHT:	Oak 58 x 40", 4 way entry pallet — Oak 54" x 37" top frame. Approximately 40 pounds per pallet and top combined. Overall dimensions 58" long x 40" wide x 50" high. Shipping weight net / gross per bag per skid 1,000 pounds net / 1,040 pounds gross



INTERFIBE A TRADEMARK OF SULLIVAN CHEMICAL

JMM 00000084

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INTERFIBE 200 Specification Sheet

GENERIC DESCRIPTION:	Blended cellulosic fibers and surfactants.
COLOR:	Blue Gray
SPECIFIC GRAVITY:	1.1
FIBER LENGTH:	mm Average — 2.5 — 4.0 Maximum — 5.0
FIBER DIAMETER:	μ 30 — 40
SURFACE:	Hydrophilic
MOISTURE CONTENT:	3.5%
CHAR POINT:	550°F
PRIMARY USES:	Reinforcement filler for asphaltic emulsions, latex and textured coatings.
BAG SIZE:	50 pound bag 28" long x 18" wide x 10" high.
BAG MATERIAL:	4 mil low-lineal density polyethylene.
PALLET SIZE & WEIGHT:	Oak 58 x 40". 4 way entry pallet — Oak 54" x 37" top frame. Approximately 40 pounds per pallet and top combined. Overall dimensions 58" long x 40" wide x 50" high. Shipping weight net / gross per bag per skid 800 pounds net / 840 pounds gross



INTERFIBE A TRADEMARK OF SULLIVAN CHEMICAL

JMM 00000085

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SULLIVAN CHEMICAL, INC.

NEW "INTERFIBE" PRODUCT SELECTION

Interfibe 531M

Generic Description: "Spec-blended" cellulosic fibers and other inert ingredients.

Color: White

Packed Density: .16 (10.2 lbs/cu. ft.)

Oil Absorption: Moderately oliophilic, absorbs four times its own weight.

Water Absorption: Moderately hydrophobic.

Approximate Screen Analysis: 99% thru 20 mesh, 90% thru 50 mesh.

Primary Uses: Filler for rubber, plastics and mastics.

Bag Size: Nominal 40 lb. bag approximately 28" long x 18" wide x 10" high.

Bag Material: 4 mil. low-lineal density polyethylene co-extruded bag; inside polyethylene slippery for easy material discharge.

Pallet Size & Weight: Oak 58" x 40" 4-way entry pallet. Oak 54" x 37" top frame. Aproximately 40 lbs./pallet & top combined.
Shipping overall dimensions: 58" long x 40" wide x 50" high.

Shipping Weight net/gross: per bag/per skid: 800 lbs. net/840 lbs. gross. 20-40 lb. bags/skid.

JMM 00000086

INTERFIBE 233 Specification Sheet

GENERIC DESCRIPTION:	Blended cellulosic fibers, clays and inert additives.
COLOR:	Gray
SPECIFIC GRAVITY:	1.1
FIBER LENGTH:	mm Average — 4.5 — 6.5 Maximum — 7.0
FIBER DIAMETER:	μ 30 — 40
SURFACE:	Hydrophobic
MOISTURE CONTENT:	3.5%
CHAR POINT:	550°F
OIL ABSORPTION:	Six times its own weight.
PRIMARY USES:	Reinforcement filler for asphaltic and elastomeric compounds.
BAG SIZE:	50 pound bag 28" long x 18" wide x 10" high.
BAG MATERIAL:	4 mil low-lineal density polyethylene.
PALLET SIZE & WEIGHT:	Oak 58 x 40". 4 way entry pallet — Oak 54" x 37" top frame. Approximately 40 pounds per pallet and top combined. Overall dimensions 58" long x 40" wide x 50" high. Shipping weight net / gross per bag per skid 1,000 pounds net / 1,040 pounds gross



INTERFIBE A TRADEMARK OF SULLIVAN CHEMICAL

JMM 00000087

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MATERIAL SAFETY DATA SHEET

Required under USDL Safety and Health Regulations for Ship Repairing,
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

SECTION I

MANUFACTURER'S NAME Interfibe Research Corporation		EMERGENCY TELEPHONE NO. (616) 323-8366
ADDRESS (Number, Street, City, State, and ZIP Code) 1615 Vanderbilt Road Portage, Michigan 49002		
CHEMICAL NAME AND SYNONYMS Cellulosic based fibers		TRADE NAME AND SYNONYMS Interfibe 463
CHEMICAL FAMILY Mixture	FORMULA (C₆H₁₀O₅)_n	

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS			BASE METAL		
CATALYST			ALLOYS		
VEHICLE			METALLIC COATINGS		
SOLVENTS			FILLER METAL PLUS COATING OR CORE FLUX		
ADDITIVES			OTHERS		
OTHERS					
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES				%	TLV (Units)
This section not applicable					

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	n/a	SPECIFIC GRAVITY (H ₂ O=1)	1.1
VAPOR PRESSURE (mm Hg.)	n/a	PERCENT VOLATILE BY VOLUME (%)	Slight
VAPOR DENSITY (AIR=1)	n/a	EVAPORATION RATE (____=1)	n/a
SOLUBILITY IN WATER	Slight		
APPEARANCE AND ODOR	Gray, finely particulated fiber mixture, essentially odorless.		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	n/a	FLAMMABLE LIMITS	LeL	UeL
EXTINGUISHING MEDIA	n/a			
SPECIAL FIRE FIGHTING PROCEDURES	n/a			
UNUSUAL FIRE AND EXPLOSION HAZARDS				

SECTION V - HEALTH HAZARD DATA	
THRESHOLD LIMIT VALUE	n/a
EFFECTS OF OVEREXPOSURE	None known
EMERGENCY AND FIRST AID PROCEDURES	Rinse off with water. Non-corrosive

SECTION VI - REACTIVITY DATA			
STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	
INCOMPATIBILITY (Materials to avoid)			
HAZARDOUS DECOMPOSITION PRODUCTS			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	

SECTION VII - SPILL OR LEAK PROCEDURES	
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED	Sweep or vacuum
WASTE DISPOSAL METHOD	Class III or other landfill.

SECTION VIII - SPECIAL PROTECTION INFORMATION		
RESPIRATORY PROTECTION (Specify type) As with any inert finely divided material - wear mask.		
VENTILATION	LOCAL EXHAUST	SPECIAL
	MECHANICAL (General)	OTHER
PROTECTIVE GLOVES	EYE PROTECTION Normal protection against foreign substances.	
OTHER PROTECTIVE EQUIPMENT		

SECTION IX - SPECIAL PRECAUTIONS	
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING	None
OTHER PRECAUTIONS	None

SUPPLIER Sullivan Chemical, Inc. HEALTH HAZARD RATING 0
MATERIAL DESCRIPTION Interfibe 463 FLAMMABILITY HAZARD RATING 0
REACTIVITY HAZARD RATING 1
PERSONAL PROTECTIVE EQUIP. E

I. HEALTH HAZARD RATING

- | | |
|-------------------|--|
| 0 MINIMAL HAZARD | No significant risk to health |
| 1 SLIGHT HAZARD | Irritation or minor reversible injury possible |
| 2 MODERATE HAZARD | Temporary or minor reversible injury may occur |
| 3 SERIOUS HAZARD | Major injury likely unless prompt action is taken and medical treatment is given |
| 4 SEVERE HAZARD | Life-threatening major or permanent damage may result from single or repeated exposure |
-

II. FLAMMABILITY HAZARD RATING

- | | |
|-------------------|---|
| 0 MINIMAL HAZARD | Materials that are normally stable and will not burn unless heated |
| 1 SLIGHT HAZARD | Material that must be preheated before ignition will occur. Flammable liquids in this category will have flash points (the lowest temperature at which ignition will occur) at or above 200 F (NFPA Class IIIB) |
| 2 MODERATE HAZARD | Material that must be moderately heated before ignition will occur, including flammable liquids with flash points at or above 100 F and below 200 F (NFPA Class II & IIIA) |
| 3 SERIOUS HAZARD | Material capable of ignition under almost all normal temperature conditions, including flammable liquids with flash points below 73 F & boiling points above 100 F as well as liquids with flash points between 73 F and 100 F (NFPA Class IB & IC) |
| 4 SEVERE HAZARD | Very flammable gases or flammable liquids with flash points below 73 F and boiling points below 100 F (NFPA Class IA) |

INTERFIBE 463 Specification Sheet

GENERIC DESCRIPTION:	Cellulosic fibers and other chemically inert materials.
COLOR:	Gray *Light Gray
SPECIFIC GRAVITY:	1.1
FIBER LENGTH:	mm Average — 2.5 — 4.0 Maximum — 5.0
FIBER DIAMETER:	μ 30 — 40
SURFACE:	Hydrophobic
MOISTURE CONTENT:	3.5%
CHAR POINT:	550°F
OIL ABSORPTION:	Six times its own weight.
PRIMARY USES:	Reinforcement filler for asphaltic cement, sand filled epoxy and elastomeric compounds.
BAG SIZE:	40 pound bag 28" long x 18" wide x 10" high.
BAG MATERIAL:	4 mil low-linear density polyethylene.
PALLET SIZE & WEIGHT:	Oak 58" x 40". 4 way entry pallet — Oak 54" x 37" top frame. Approximately 40 pounds per pallet and top combined. Overall dimensions 58" long x 40" wide x 50" high. Shipping weight net / gross per bag per skid 800 pounds net / 840 pounds gross



INTERFIBE A TRADEMARK OF SULLIVAN CHEMICAL

JMM 00000091

We cannot anticipate all conditions under which this information and our products, or the products of other manufacturers in combination with our products, may be used. We accept no responsibility for results obtained by the application of this information or the safety and suitability of our products, either alone or in combination with other products. Users are advised to make their own tests to determine the safety and suitability of each such product or product combination for their own purposes. Unless otherwise agreed in writing, we sell the product without warranty, and buyers and users assume all responsibility and liability for loss or damage arising from the handling and use of our products, whether used alone or in combination with other products.

SUPPLIER Sullivan Chemical, Inc. HEALTH HAZARD RATING 0

MATERIAL DESCRIPTION Interfibe 231M FLAMMABILITY HAZARD RATING 0

REACTIVITY HAZARD RATING 1

PERSONAL PROTECTIVE EQUIP. E

I. HEALTH HAZARD RATING

- | | |
|-------------------|--|
| 0 MINIMAL HAZARD | No significant risk to health |
| 1 SLIGHT HAZARD | Irritation or minor reversible injury possible |
| 2 MODERATE HAZARD | Temporary or minor reversible injury may occur |
| 3 SERIOUS HAZARD | Major injury likely unless prompt action is taken and medical treatment is given |
| 4 SEVERE HAZARD | Life-threatening major or permanent damage may result from single or repeated exposure |
-

II. FLAMMABILITY HAZARD RATING

- | | |
|-------------------|---|
| 0 MINIMAL HAZARD | Materials that are normally stable and will not burn unless heated |
| 1 SLIGHT HAZARD | Material that must be preheated before ignition will occur. Flammable liquids in this category will have flash points (the lowest temperature at which ignition will occur) at or above 200 F (NFPA Class III B) |
| 2 MODERATE HAZARD | Material that must be moderately heated before ignition will occur, including flammable liquids with flash points at or above 100 F and below 200 F (NFPA Class II & III A) |
| 3 SERIOUS HAZARD | Material capable of ignition under almost all normal temperature conditions, including flammable liquids with flash points below 73 F & boiling points above 100 F as well as liquids with flash points between 73 F and 100 F (NFPA Class I B & I C) |
| 4 SEVERE HAZARD | Very flammable gases or flammable liquids with flash points below 73 F and boiling points below 100 F (NFPA Class I A) |

INTERFIBE 231M Specification Sheet

GENERIC DESCRIPTION:	Cellulosic fibers and other chemically inert materials.
COLOR:	Gray
SPECIFIC GRAVITY:	1.1
FIBER LENGTH:	mm Average — 1.5 - 3.0 Maximum — 4.0
FIBER DIAMETER:	μ 30 - 40
SURFACE:	Hydrophobic
MOISTURE CONTENT:	2.6%
CHAR POINT:	550°F
OIL ABSORPTION:	Six times its own weight.
PRIMARY USES:	Reinforcement filler for aluminum roof coatings, epoxy coatings, and elastomeric products.
BAG SIZE:	50 pound bag 28" long x 18" wide x 10" high.
BAG MATERIAL:	4 mil low-lineal density polyethylene.
PALLET SIZE & WEIGHT:	Oak 58" x 40". 4 way entry pallet — Oak 54" x 37" top frame. Approximately 40 pounds per pallet and top combined. Overall dimensions 58" long x 40" wide x 50" high. Shipping weight net / gross per bag per skid 1,000 pounds net / 1,040 pounds gross



INTERFIBE A TRADEMARK OF SULLIVAN CHEMICAL

JMM 00000093

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TOXICOLOGY CONSULTATIONS

Carl L. Hake, Ph.D.

Diplomate of The American Board of Toxicology

Offices at:

Department of Pharmacology and Toxicology
The Medical College of Wisconsin
8701 Watertown Plank Road
Milwaukee, Wisconsin 53226
Phone: (414) 257-8635

Toxicology Consultations
68 Oak Creek Trail
Madison, Wisconsin 53717
(Correspondence address)
Phone: (608) 833-3423

July 22, 1985

Interfibe Research Corporation
1615 Vanderbilt Road
Portage, Michigan 49002

Attention: Mr. John Karnemaat, President

This communication is a letter of response to your request for a professional opinion regarding the possible harmful effects to health in the normal commercial use of your "Interfibe" products.

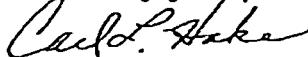
It is my understanding that these products are primarily "spec-blended" cellulose fibers, with some clays, quaternary salts, and other minor materials.

Because of the nature of the product and their particle sizes, the organs of primary concern regarding possible harmful effects are the respiratory tract and the eyes. Normal eye protection against foreign substances, as recommended in the Material Safety Data Sheets, would be sufficient to prevent eye injuries. Simple dust masks, worn when a visibly dusty work situation is encountered, would prevent potential respiratory tract irritation or any more serious respiratory problems.

Based on my knowledge, there are no known cases of carcinogenesis from cellulosic materials such as used in these products, and it is my professional opinion that, if used in a manner such that the airborne concentrations of these products are no greater than 10 mg/m³ (milligrams per cubic meter) or 30 mppcf (million particles per cubic foot)*, no long-term adverse health effects such as pneumoconiosis or carcinogenesis will occur.

If you have any questions regarding this opinion, please contact me.

Very truly yours,



Carl L. Hake, Ph.D.

*Concentrations chosen by a committee of the American Conference of Governmental Industrial Hygienists for the TLV¹ of "nuisance" dusts.

JMM 00000094



ASBESTOS INFORMATION ASSOCIATION

1745 Jefferson Davis Highway, Crystal Square 4, Suite 509
Arlington, Virginia 22202 • (703) 979-1150

January 27, 1986

✓ Copy to: W. Wang

This is the information that Calaveras sent to me.

Memorandum For:

AIA/NA MEMBERS

For your reference.

Paul 7/86

Subject:

Supplementary Comments and Information on
EPA's Proposed Rule to Ban and Phase Out
Uses of Asbestos

AIA/NA memorandum of January 24 forwarded to you initial information pertaining to the U.S. Environmental Protection Agency's (EPA) proposed rule to ban the use of five asbestos-containing products and phase out all remaining uses of asbestos in the United States over the next 10 years. The purpose of this memorandum is to provide you with additional information on the specifics of the proposal and to assist you in responding to various inquiries and in providing information to customers as may be deemed appropriate. The proposal is scheduled to be published in the Federal Register on January 29, 1986.

First, as emphasized in the January 24 memorandum, while the issuance of EPA's proposed rule is a disappointment to the industry, it is nevertheless a proposal. It is a long way from becoming a final regulation. As you know, the EPA proposal has been under consideration for over six years. The Association is on public record opposing such draconian action as unjustified--based on the absence in today's use of asbestos of any "unreasonable risk." Such finding of an "unreasonable risk" is required by the Toxic Substances Control Act prior to promulgation of any final rule. In addition, EPA's proposed action is clearly out-of-step with the consensus of a number of international bodies that have thoroughly studied the asbestos issue (EEC, ILO & WHO). These organizations and other world nations favor the control of asbestos rather than the ban approach.

As to the actual proposal (see excerpt from prepublication copy enclosed), the rulemaking procedure calls for submission of comments 90 days after publication in the Federal Register (April 29, 1986) with public hearings to later follow. After this, EPA will assess the record and then will likely prepare and submit to the U.S. Office of Management and Budget (OMB) a final rule for review. It is safe to assume that EPA's preparation and submission to OMB of any final rule will not, at the earliest, occur before sometime in 1987. This would mean an effective date of January 1, 1988 or, if a final rule is published within the last four months of next year, the effective date would be January 1, 1989.

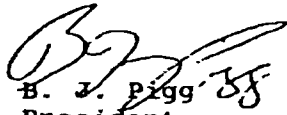
JMM 000000951

The fact that OMB cleared issuance of a proposed rule to ban products and phase-out the use of asbestos does not imply that OMB

support will be forthcoming for the same drastic approach in any final rule. There are many complex issues to be addressed and reconciled in the rulemaking process. Suffice it to say that the issuance of an EPA proposed rule to bring about the demise of the U.S. asbestos industry does not in any way assure that such an event will occur.

We do not believe that EPA will be able, as required in order to issue the proposed rule, to support with substantial evidence its preliminary finding of unreasonable risk. AIA/NA plans to submit evidence to the agency to demonstrate that risk from use of today's products are not unreasonable. On one hand, EPA overestimates exposures to asbestos in use of today's products and the adverse health effects that might be caused by such low exposures. On the other hand, the agency underestimates the value to society of these asbestos-containing products and the potential risks that would exist with uncontrolled use of substitute non-asbestos products.

It is appropriate to comment briefly on the other three regulatory options discussed in EPA's proposed rule. These alternatives to the actual, proposed rule are attached and invited to your attention. The alternatives give credence to the fact that EPA's proposal is a worst-case scenario and is not one cast in concrete.


B. J. Pigg
President

Enclosures

cc: Joseph A. Artabane, SB&H
Joseph C. Jackson, AACPP
Paul LaFleur, Canadian Embassy
Gary Nash, AI
Sir Neville Stack, AIA
Edward W. Warren, K&E
Robert V. Witeck, Gray & Co.

Therefore, it is proposed that 40 CFR Part 763 be amended as follows:

1. The authority citation for Part 763 is revised to read as follows:

AUTHORITY: 15 U.S.C. 2605 and 2607(c).

2. By adding new Subpart H to read as follows:

SUBPART H--ASBESTOS MINING AND IMPORT RESTRICTIONS

Sec.

763.140 Scope.

763.143 Definitions.

763.145 Mining and import restrictions.

763.147 Permits to mine or import asbestos.

763.148 Issuance of permits.

763.149 Appeals concerning permits.

763.150 Transfer of permits.

763.151 Banking of permits.

763.153 Recordkeeping.

763.154 Reporting.

763.156 Enforcement.

763.157 Inspections.

763.159 Confidentiality and public access to information.

SUBPART H--ASBESTOS MINING AND IMPORT RESTRICTIONS

763.140 Scope.

This Subpart prohibits the mining or importation of asbestos, including asbestos in certain asbestos products, unless authorized by a permit issued by EPA.

JMM 00000097

§ 763.143 Definitions.

(a) The definitions in section 3 of TSCA, 15 U.S.C. 2602, apply to this Subpart. In addition, the following definitions apply:

(b) The terms "act," "article," "byproduct," "customs territory of the United States," "EPA," "importer," "manufacturer," "persons," and "United States" have the same meanings as in § 720.3 of this chapter.

(c) "Asbestos" means the asbestiform varieties of: chrysotile (serpentine); crocidolite (riebeckite); amosite, (cummingtonite-grunerite); tremolite; anthophyllite, and actinolite that are mined or milled.

(d) "Asbestos product" means any mixture or article containing asbestos.

(e) "Consumer" means a natural person who uses a product for personal rather than business purposes.

(f) "Import" means to bring into customs territory of the United States for any purpose except (1) for shipment through the customs territory of the United States for export without any domestic use or processing; or (2) entering the customs territory of the United States as part of a product during normal personal or business activities involving use of the product.

(g) "Milled" means the separation of asbestos fibers from asbestos ore, the grading and sorting of asbestos fibers, or the fiberizing of asbestos ore.

(h) "Mine" means to produce asbestos other than as an unintended contaminant or impurity by extracting asbestos-containing ore so that the ore may be (1) distributed in commerce or (2) milled for distribution in commerce.

(i) "Miner" means a person who mines asbestos.

§ 763.145 Mining and import restrictions.

(a) Beginning the first day of the calendar year after this rule becomes effective, or if this rule becomes effective during the last 4 months of a calendar year, beginning the first day of the second calendar year after this rule becomes effective, no person other than a person authorized by a permit issued by EPA as provided in this part may:

(1) Mine asbestos in the United States or

(2) Import asbestos, including asbestos in an asbestos product listed in this section, except in small quantities solely for personal consumer use, into the customs territory of the United States.

(b) The following asbestos products may not be imported into the customs territory of the United States except in small quantities by a consumer solely for his or

her. personal use unless authorized by a permit issued by EPA as provided in this Subpart:

- (1) Appliances.
- (2) Pipeline wrap.
- (3) Thread, yarn, lap, roving, cord, rope, or wick.
- (4) Sheet gasketing, rubber encapsulated compressed.
- (5) Disc brake pads (light-medium vehicles).
- (6) Cloth, other than asbestos clothing
- (7) Brake blocks.
- (8) Millboard.
- (9) Packing.
- (10) Mixed or repackaged asbestos fiber.
- (11) Thermoplugs.
- (12) Tape.
- (13) Roof coatings.
- (14) Clutch facings.
- (15) Automotive gasket kit.
- (16) Drum brake linings.
- (17) Yarn.
- (18) Automobiles and other motor vehicles.

§ 763.147 Permits to mine or import asbestos.

(a) Persons may mine in the United States or import into the customs territory of the United States only the quantity of asbestos for which they hold permits issued under this Subpart.

(b) The amount of asbestos contained in imported product listed in § 763.145 will count toward the total amount of asbestos a person may mine or import during a year.

(c) Persons must estimate typical asbestos content of imported asbestos products covered by this rule. Persons may use EPA's estimate of typical asbestos content if they are not certain of the typical asbestos content of a product.

§ 763.148 Issuance of permits.

(a)(1) EPA will issue permits for the mining or import of asbestos, including asbestos contained in the asbestos products listed in § 763.145.

(2) Applications for permits must be sent to the Office of Toxic Substances (TS-792), EPA, 401 M St., SW., Washington, D.C. 20460.

(b)(1) Persons must apply to EPA for permits by 30 days after the effective date of this rule.

(2) Persons must list in their application for permits the amount of asbestos, including asbestos contained in the asbestos products listed in § 763.145, that they imported or mined during 1981, 1982, and 1983.

(c) If an application is mailed to EPA, the application must be postmarked by 30 days after the effective date of this rule.

(d) EPA will allocate to persons who apply for permits a uniform percentage of the amount of asbestos those persons reported mining or importing during 1981, 1982, and 1983.

(e) Each permit will allow a person to mine or import the following percentages of the average amount of asbestos he or she mined or imported yearly during 1981, 1982, and 1983.

Year 1--30 percent

Year 2--27 percent

Year 3--24 percent

Year 4--21 percent

Year 5--18 percent

Year 6--15 percent

Year 7--12 percent

Year 8--9 percent

Year 9--6 percent

Year 10--3 percent

§ 763.149 Appeals concerning permits.

(a) A person may appeal EPA's initial disposition of his or her application for a permit.

(b) The person must appeal in writing to the Director of the Office of Toxic Substances (TS-792), EPA, 401 M St., SW., Washington, D.C. 20460, within 20 days after receipt of EPA's announcement of the disposition of his or her

application. If the appeal is mailed, the letter must be postmarked within 20 days after receipt of EPA's announcement of disposition.

(c) A person must indicate in an appeal why he or she should receive a permit or be allowed to mine or import additional asbestos under the permit.

(d) The Director of the EPA Office of Toxic Substances will either grant or deny the appeal within 60 days after its receipt. The disposition of the appeal will be announced by letter to the person making the appeal.

§ 763.150 Transfer of permits.

(a) A person issued a permit by EPA to mine or import a quantity of asbestos may transfer that permit in whole or in part to another person.

(b) A person who transfers a permit to mine or import a quantity of asbestos and a person who receives such a transferred permit must report that transfer to the Office of Toxic Substances (TS-792), EPA, 401 M St., SW., Washington, D.C. 20460, within 10 days of the transfer.

(c) The parties involved in a transfer may report either jointly or separately.

(d) If a report is mailed to EPA, the report must be postmarked within 10 days of the transfer.

§ 763.151 Banking of permits.

(a) Persons issued permits by EPA to mine or import a quantity of asbestos during one particular year may reserve or "bank" all or part of the permitted amount and use it to mine or import asbestos during a later year during the 10-year phase-down period.

(b) The amount of asbestos that a person is permitted to mine or import will decline from year to year when it is reserved or "banked" at a rate of 10 percent per year.

(c) A person who "banks" a permit in whole or in part must report that "banking" to the Office of Toxic Substances (TS-792), EPA, 401 M St., SW., Washington, D.C. 20460, within 60 days of the end of the year for which the permit was issued.

(d) If a report is mailed to EPA, the report must be postmarked within 60 days of the end of the year for which the "banked" permit was issued.

§ 763.153 Recordkeeping.

(a) Any person who mines or imports asbestos or any asbestos product listed in § 763.145 must retain in one location documentation of information showing:

(1) The name of any person to whom he or she transferred permission to mine or import asbestos.

(2) The name of any person from whom he or she received permission to mine or import asbestos.

(3) The amount of asbestos mined or imported each year, including asbestos imported in any asbestos product listed in § 763.145.

(4) The typical asbestos content of any asbestos product listed in § 763.145.

(5) The number of individual asbestos products listed in § 763.145 imported each year.

(b) This information must be retained for 5 years from the end of the last year of the 10-year phase-down period covered by this rule.

§ 763.154 Reporting.

(a) Any person who imports asbestos, including asbestos in an asbestos product listed in § 763.145, must report to the Office of Toxic Substances (TS-792), EPA, 401 M St., SW., Washington, D.C. 20460, within 2 days of the day of import indicating:

(1) The person's name.

(2) The amount of asbestos imported.

(3) The number of individual asbestos products listed in § 763.145 imported.

(4) A certification that the person was either issued a permit by EPA to import at least that amount of asbestos that year or obtained that permission from another person as provided in § 763.148.

(b) Within 60 days of the end of each year covered by this Subpart, each person who mines or imports asbestos including asbestos in an asbestos product listed in § 763.145 must report to the Office of Toxic Substances (TS-792), EPA, 401 M St., SW., Washington, D.C. 20460:

(1) The total amount of bulk asbestos that person mined or imported that year.

(2) The total amount of asbestos that person imported in asbestos products listed in § 763.145 that year.

(3) The number of individual asbestos products listed in § 763.145 that person imported that year.

(4) The amount of asbestos that person had permission to mine or import that year.

(c) If a report is mailed to EPA, the report must be postmarked within 60 days of the end of each year covered by this Subpart.

§ 763.156 Enforcement.

(a) Failure to comply with any provision of this Subpart is a violation of section 15 of the Act (15 U.S.C. 2614).

(b) Failure or refusal to establish and maintain records or to permit access to or copying of records, as required by the Act, is a violation of section 15 of the Act (15 U.S.C. 2614).

(c) Failure or refusal to permit entry or inspection as required by section 11 of the Act (15 U.S.C. 2610) is a violation of section 15 the Act (15 U.S.C. 2614).

(d) Violators may be subject to the civil and criminal penalties in section 16 of the Act (15 U.S.C. 2615) for each violation.

(e) EPA may seek to enjoin the mining or import of asbestos or asbestos products in violation of this Subpart, or act to seize any asbestos or asbestos products in violation of this Subpart, or take other actions under the authority of sections 7 or 17 of the Act (15 U.S.C. 2606 or 2616).

§ 763.157 Inspections.

EPA will conduct inspections under section 11 of the Act (15 U.S.C. 2610) to ensure compliance with this Subpart and to verify that information submitted to EPA under this Subpart is correct.

§ 763.159 Confidentiality and public access to information.

(a) A person may assert a claim of confidentiality for any information he or she submits to EPA under this Subpart.

(b) Any claim of confidentiality must accompany the information when it is submitted to EPA.

(c) EPA will disclose information subject to a claim of confidentiality asserted under this section only to the extent permitted by TSCA and Part 2 of this title.

(d) If a person does not assert a claim of confidentiality for information at the time it is submitted to EPA, EPA may make the information public without further notice to that person.

3. By adding new Subpart I to read as follows:

SUBPART I -- PROHIBITION OF THE MANUFACTURE,
PROCESSING, AND DISTRIBUTION IN COMMERCE OF
CERTAIN ASBESTOS-CONTAINING PRODUCTS

Sec.

763.160 Scope and compliance.

763.163 Definitions.

763.165 Manufacture--prohibitions.

763.167 Processing--prohibitions.

763.169 Enforcement.

SUBPART I--PROHIBITION OF THE MANUFACTURE, PROCESSING,
AND DISTRIBUTION IN COMMERCE OF CERTAIN
ASBESTOS-CONTAINING PRODUCTS

§ 763.160 Scope.

This Subpart prohibits the manufacture, importation and processing, of the following categories of asbestos-containing products: asbestos-containing roofing felt, asbestos-containing flooring felt (including vinyl sheet flooring backed with flooring felt), vinyl-asbestos floor tile and asbestos-cement pipe and fittings and asbestos clothing.

§ 763.163 Definitions.

The definitions in section 3 of the Toxic Substances Control Act and the following definitions apply to this subpart.

(a) "Asbestos" means the asbestiform varieties of: chrysotile (serpentine); crocidolite (riebeckite); amosite (cummingtonite-grunerite); tremolite; anthophyllite, and actinolite.

(b) "Asbestos-cement pipe and fittings" means an asbestos-containing product that contains cement and is intended to transmit water or sewage; for use as conduit pipe for the protection of electrical or telephone cable; or for use as air ducts.

(c) "Asbestos clothing" means an asbestos-containing product made of cloth and designed to be worn by individuals.

(d) "Asbestos-containing product" means any material which contains more than 1.0 percent asbestos by weight.

(e) "Flooring felt" means an asbestos-containing product made of paper felt and intended as an underlayment for floor coverings, or to be bonded to the underside of vinyl sheet flooring.

(f) "Roofing felt" means an asbestos-containing product made of paper felt and intended for use on building roofs as a covering or underlayment for other roof coverings.

(g) "Vinyl-asbestos floor tile" means an asbestos-containing product composed of vinyl resins, containing fillers, stabilizers and pigments and used as floor tile.

§ 763.165 Manufacture--prohibitions.

Beginning the first day of the calendar year after this rule becomes effective, or if this rule becomes effective during the last 4 months of a calendar year, beginning the first day of the second calendar year after this rule becomes effective, no person shall manufacture or import the following asbestos-containing products either for use in the United States or for export: asbestos-containing roofing felt, asbestos-containing flooring felt (including vinyl sheet flooring backed with flooring felt), sheet flooring backed with flooring felt), vinyl-asbestos floor tile, asbestos-cement pipe and fittings, and asbestos clothing.

§ 763.167 Processing--prohibitions.

Beginning the first day of the calendar year after this rule becomes effective, or if this rule becomes effective during the last 4 months of a calendar year, beginning the first day of the second calendar year after this rule becomes effective, no person shall process the following products, either for use in the United States or for export: asbestos-containing roofing felt, asbestos-containing flooring felt (including vinyl sheet flooring backed with flooring felt), vinyl-asbestos floor tile, asbestos-cement pipe and fittings, and asbestos clothing.

§ 763.169 Enforcement.

(a) Failure to comply with any provision of this Subpart is a violation of section 15 of the Act (15 U.S.C. 2614).

(b) Failure or refusal to establish and maintain records or to permit access to or copying of records, as required by the Act, is a violation of section 15 of the Act (15 U.S.C. 2614).

(c) Failure or refusal to permit entry or inspection as required by section 11 of the Act (15 U.S.C. 2610) is a violation of section 15 the Act (15 U.S.C. 2614).

(d) Violators may be subject to the civil and criminal penalties in section 16 of the Act (15 U.S.C. 2615) for each violation.

(e) EPA may seek to enjoin the manufacture or import of asbestos products in violation of this Subpart, or act to seize any asbestos products in violation of this Subpart, or take other actions under the authority of sections 7 or 17 of the Act (15 U.S.C. 2606 or 2616).

EPA PROPOSED RULE

EXCERPT FROM PREPUBLICATION COPY
OF FEDERAL REGISTER NOTICE

IV. OTHER OPTIONS CONSIDERED

Section 6 of TSCA requires that EPA apply the least burdensome requirements to reduce an unreasonable risk. EPA is considering a number of options for implementing the regulatory policy of phasing out the manufacture and

importation of asbestos products. These options involve staged bans of categories of asbestos products. This approach would ban the manufacture, importation, and processing of all asbestos products within a certain category at the same time. EPA is considering a category approach for groups of asbestos products with similar exposure patterns, similar exposure control issues, and similar substitutes. Examples of categories under consideration are construction products and friction products. EPA believes it may be good public policy to ban categories of products at the same time. This approach would address similar exposure patterns in the same way and treat all parts of an industry sector similarly. In addition, both the construction products category and the friction products category contain products that could substitute for other products in the category if all are not banned. Thus, a ban of the entire category may be necessary to reduce risk most effectively.

One option under active consideration in addition to the ones embodied in the proposal is banning the manufacture, importation, and processing of the asbestos construction products category and asbestos clothing with the ban effective soon after promulgation of the rule; banning the manufacture, importation, and processing of the asbestos friction products category about 5 years after

promulgation of the rule; and gathering up-to-date production, exposure, and use data on the remaining asbestos products under section 8(a) of TSCA to support possible bans of other asbestos products at that time. Another option is banning the manufacture, importation, and processing of the asbestos construction products category, asbestos clothing, and the asbestos friction products category as stated above and banning the remaining asbestos products at a later time (e.g., 10 years), thus allowing time for the development of effective substitutes while strongly encouraging substitute development. A third option is banning the manufacture, importation, and processing of the asbestos construction products category and asbestos clothing as stated above and covering all other asbestos products under the phase-down. Under each of the options, EPA is also considering a requirement that products not banned soon after promulgation be labeled as containing asbestos.

EPA is actively considering these options as alternatives to this proposed rule and specifically requests comment on these alternatives. EPA may adopt a final rule based closely on one or a combination of these alternatives. These alternatives are discussed more fully below.

1. Ban the asbestos construction products category and asbestos clothing soon after promulgation of the rule, ban the asbestos friction products category about 5 years later, and gather additional information on other asbestos products. Under this alternative, EPA would ban the

manufacture, importation, and processing of the asbestos construction products category (i.e., asbestos-cement pipe and fittings, roofing felts, flooring felts and felt-backed sheet flooring, vinyl-asbestos floor tile, corrugated asbestos-cement sheet, flat asbestos-cement sheet, and asbestos-cement shingles) and asbestos clothing soon after promulgation of the rule. Effective substitutes exist for these products. The rule would also ban the manufacture, importation, and processing of the asbestos friction products category (i.e., drum brake linings, disc brake pads for light, medium, and heavy vehicles, brake blocks, clutch facings, automatic transmission friction components, and industrial and commercial friction materials) 5 years after promulgation of the rule. This alternative would reduce exposure to asbestos without the administrative burden of EPA establishing and operating a permit system as in the proposed approach. This alternative, by banning asbestos friction products 5 years after promulgation, would strongly encourage the rapid development of additional effective substitutes for asbestos friction products. The 5-year delayed ban would also allow time for expansion of production capacity for non-asbestos friction products.

EPA estimates that this alternative, assuming current exposure levels, would avoid about 2,100 cancer cases that EPA can quantify while costing about \$2.11 billion. This is a cost of about 1.01 million per cancer case avoided.

Because OSHA has proposed lowering the workplace PEL for asbestos to 0.2 f/cc, EPA also estimated the numbers of cancer cases avoided assuming strict compliance with this lower PEL. Assuming strict compliance with an OSHA PEL of 0.2 f/cc, EPA estimates that this alternative would avoid about 1,060 cancer cases that EPA can quantify, while costing about \$2.11 billion. This is a cost of about \$2.00 million per cancer case avoided.

To determine how sensitive the cost per cancer case avoided was to the banning of particular products, EPA conducted a sensitivity analysis, excluding asbestos-cement pipe from the ban.

Without a ban of asbestos-cement pipe and assuming strict compliance with an OSHA PEL of 0.2 f/cc, EPA estimates that this alternative would avoid about 840 cancer cases that EPA can quantify, while costing about \$1.87 billion. This is a cost of about \$2.22 million per cancer case avoided.

EPA believes that effective substitutes are increasingly becoming available for asbestos friction products and will be readily available by the date the delayed ban would become effective. However, EPA is considering an exemption process for essential uses without substitutes. One area EPA is studying in particular is the aftermarket for asbestos brakes. Some persons have stated

that asbestos brakes now in use cannot safely be replaced by asbestos-free brakes when they wear out, while others have disagreed with this assertion. EPA is aware of the potential risk to the public from poorly performing brakes. EPA specifically requests comment on this issue.

EPA considered various approaches for addressing the risk presented by asbestos products not banned either soon after promulgation or 5 years after promulgation under this alternative. One approach would be to propose and promulgate a rule under section 8(a) of TSCA to gather contemporaneous data concerning the production and use of and exposure to these products at the time the first products ban rule becomes effective or at a date a few years later. EPA would analyze that data and then decide whether to ban additional asbestos products. EPA would also determine the date of these bans, which may be at staged intervals. After deciding these issues, EPA would propose and promulgate the bans of these asbestos products. Another approach for addressing the risk presented by these remaining asbestos products is discussed as alternative 2 below.

2. Ban the asbestos construction products category and asbestos clothing soon after promulgation of the rule, ban the asbestos friction products category about 5 years later, and ban remaining asbestos products about 10 years later.



ASBESTOS INFORMATION ASSOCIATION

1745 Jefferson Davis Highway, Crystal Square 4, Suite 509
Arlington, Virginia 22202 • (703) 979-1150

January 24, 1986

Memorandum For: AIA/NA MEMBERS

Subject: Forwarding of Information Pertaining to
EPA's Proposed Rule to Ban and Phase Out
Uses of Asbestos

As you no doubt have learned already from the news media, the U.S. Environmental Protection Agency has obtained clearance from the U.S. Office of Management and Budget to issue a proposed rule which would ban the use of five asbestos-containing products and phase out all remaining uses of asbestos in the United States over the next 10 years. A news briefing was held at EPA's headquarters in Washington, D.C., on January 23 to describe the details of the proposal.

For your information, please find enclosed the following materials which are hastened to you:

1. Statement of EPA Administrator Lee Thomas
2. Copy of EPA News Release
3. Copy of EPA "Fact Sheet"
4. Excerpt (Summary and Introduction) from Prepublication Copy of Proposed Rule for Federal Register

It is expected that the proposed rule will be published in the Federal Register within the next 10 days; comments on the proposed rule are required within 90 days after publication with public hearings to be scheduled after submission of comments.

As a recap, the products EPA proposes to ban are:

Asbestos-cement pipe and fittings
Roofing felts
Flooring felts (and felt-backed sheet flooring)
Vinyl-asbestos floor tile
Asbestos Clothing

In addition, under the proposed rule, EPA would also allow only those persons with permits issued by EPA to mine or import asbestos for use in products that are not banned. This would be accomplished by authorizing persons to mine or import a percentage of the average amount of asbestos mined or imported yearly during 1981, 1982, and 1983 starting with 30 percent in year 1 and declining to 3 percent in year 10.

The above refers to the actual, proposed rule. As an alternative, however, EPA is considering prohibiting the manufacture,

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importation, and processing of asbestos construction products and asbestos clothing soon after the rule's promulgation with the category of asbestos friction products banned about 5 years later, and other asbestos products banned at a later time. Finally, under both this alternative and the proposed approach, EPA is considering requiring labeling for all asbestos products that are not banned. Construction product category would include:

Roofing felts	A/C pipe
Flooring felt	Corrugated A/C Sheet
VAT	Flat A/C sheet
Felt-backed vinyl flooring	A/C sheet shingles

This regulatory initiative by EPA will be the principal item of business for consideration at the Association's Executive Committee meeting on February 4 and the Board of Directors meeting on March 12. Details on the March meeting will be provided to members shortly. In the meantime, a detailed assessment of the EPA proposed rule is underway and further information will be provided in due course. Please contact the undersigned if you have questions.

We would emphasize that, while EPA's proposed rule is disappointing, it is in fact a proposal and much activity will transpire before a final rule (probably 1-2 years hence) may be expected. Challenge of any final rule through litigation is always an option.


B. J. Pigg
President

Enclosures

cc: Joseph A. Artabane, SB&H
Joseph C. Jackson, AACPP
Gary Nash, AI
Sir Neville Stack, AIA
Edward W. Warren, K&E

STATEMENT

BY

LEE M. THOMAS, ADMINISTRATOR
U.S. ENVIRONMENTAL PROTECTION AGENCY

JANUARY 23, 1986

Today, EPA is announcing its proposed rule to ban the use of five major asbestos products and to phase-out all remaining uses of asbestos in this country over the next 10 years.

Today's action is a major new step toward eliminating public exposure to asbestos. It is the latest in a long series of actions by EPA to reduce the risks from asbestos.

We are taking this action because of the significant and well-documented threat to health that asbestos represents. It is a known human carcinogen that causes lung cancer and mesothelioma. Asbestos is released into the air through its life cycle, from mining to processing to use and final disposal. As a result, it is present in the ambient air and presents a serious health risk to the American people. No level of exposure is without risk. Our action today begins the process of eliminating that risk. As a result of what we are proposing, we estimate that about 1900 cancer deaths from asbestos will be avoided.

The proposal would immediately prohibit the importation, manufacture and processing of five asbestos products for which substitutes are now readily available. These asbestos products accounted for about half of current asbestos consumption in 1981. They are: saturated and unsaturated roofing felt;

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flooring felt and asbestos felt-backed sheet flooring;
vinyl-asbestos floor tile; asbestos-cement pipe and fittings;
and asbestos clothing.

In addition, we are proposing to phase out the remaining
uses of asbestos not covered by the ban over the next 10 years.
The phase-down would reduce the importation and production of
asbestos products by 10 percent each year. That period of
time is necessary to allow the development of alternative
products.

In the proposal, we are asking comment on a number of
alternative ways of achieving the same goal, the ultimate
elimination of widespread asbestos use in this country. These
alternatives involve grouping asbestos products by use category,
such as construction, friction and clothing, and banning them
in stages.

Finally, we are proposing that all products not immediately
banned be labeled as containing asbestos.

Labeling would ensure that persons working with or otherwise
handling the products would know that the product contained
asbestos, and it would enable them to take steps to reduce the
likelihood of exposure.

As a proposal, we are seeking public comment on our
actions. We expect this rule to be widely and actively debated...
and we welcome that discussion. Ultimately, I believe there
can be no debate about the health risks of asbestos. This
proposal starts us down the path that will eventually rid
asbestos from our environment.

! ! !



Environmental News

FOR RELEASE: THURSDAY, JANUARY 23, 1986

Dave Ryan (202) 382-2981

EPA PROPOSES TO PHASE OUT ASBESTOS USE

The U.S. Environmental Protection Agency today proposed to ban the manufacture, importing, and processing of asbestos in certain consumer products, and to phase out its use in other products; any product that is not banned would be labeled as containing asbestos.

"Today's action is a major new step toward eliminating any public exposure to asbestos," said EPA Administrator Lee Thomas. "It is another in a long series of actions by EPA to reduce the risks from this well-documented cause of cancer in our society."

The human health risks of asbestos are serious and well-documented. Asbestos is a known human carcinogen that causes lung cancer and mesothelioma (a cancer of the chest and abdominal lining), and is also linked to other cancers.

EPA analyses show that the elimination of asbestos will have minimal economic impact, due to the widespread availability of substitutes for those asbestos products being banned. About 240,000 metric tons of asbestos were used domestically in 1984.

Acting under authority of the Toxic Substances Control Act (TSCA), EPA plans to immediately prohibit asbestos in five of the products in which it is used most: roofing felts, flooring felts (and felt-backed sheet flooring), vinyl-asbestos floor tile, asbestos cement pipe and fittings, and clothing. In addition, all remaining domestic mining and importation of asbestos would be phased out over a ten-year period. The ten-year phaseout affecting other products would be

accomplished via a permit system, under which EPA would allocate permission to mine or import a specific volume of asbestos per year.

In addition to an immediate ban of certain products and a phaseout of others, EPA is considering other approaches to address the risks associated with asbestos products. One approach includes banning "categories" of similar asbestos products at staged intervals.

Under the proposal, all products that are not immediately banned would be labeled as containing asbestos. Labeling would ensure that persons working with the products would know they contained asbestos, and it would enable these people to reduce the likelihood of exposure.

On the subject of substitutes for asbestos products, Thomas said: "The issue of asbestos substitutes is important because TSCA requires EPA to take not only health but economic considerations into effect when developing regulations. The manufacturers of any product subject to an immediate ban have access to good asbestos substitutes, so no adverse economic effects should occur. Vehicle brake manufacturers, however, use asbestos extensively in linings, but do not have substitutes available yet for all applications. For this reason, EPA is not banning asbestos in brake linings at this time.

"In encouraging the development of substitutes, EPA will be promoting significant reduction in risk. Currently, products that are replacing asbestos appear to present lower risk. However, EPA will monitor the development of substitutes, and will use TSCA to require testing of substitutes if necessary to ensure their safety," said Thomas.

The human health risks of asbestos are well known. EPA estimates that asbestos causes from 3,300 to 12,000 cancer cases a year in the U.S., almost all of which are fatal. About 65,000 persons in this country are currently suffering from asbestosis. The agency further estimates that about 2,600 persons will develop lung cancer or mesothelioma as a result of exposure to asbestos from products made over the next 15 years.

Cigarette smoking and asbestos are thought to have a strong synergistic interaction in the development of lung cancer, with the latter multiplying the risk. Consequently, when exposed to asbestos, the risk of lung cancer for smokers (for whom the risk of lung cancer is already high) is much higher than for nonsmokers exposed to asbestos. Most persons who develop lung cancer die within five years.

Basing its conclusion on available evidence, EPA believes there is no safe level of exposure to asbestos. This conclusion is consistent with the present theory of cancer causation and is further supported by documented cases where low or short-term exposure has been shown to cause asbestos-related disease.

EPA has broken the economic costs of this proposed rule down into two categories: (1) costs to consumers, and (2) cost to producers. The costs represent the total value of losses incurred over the 15-year period from 1985 to 2000.

Consumer losses would result from increases in costs incurred for asbestos products. Total consumer losses are estimated at \$1.8 billion; however, spread across the population this would average less than ten dollars per consumer over 15 years. This proposal would not cause dramatic increases in typical consumer products.

Total producer costs of about \$210 million would result when they can no longer use some of the equipment used to produce asbestos products. Much of this equipment, however, can be readily converted to the production of other products.

The total cost then of meeting this rule will be about \$2 billion, but when spread over the total population over the next 15 years the impact on most persons will be small.

"EPA has weighed the health risks from continued use of asbestos against the cost of the proposed rule, and concluded that the avoidance of about 1,900 cancer cases and many other incidents of asbestos-related disease substantially outweigh the economic effects," said Thomas.

In the 1970s, EPA banned the use of sprayed-on asbestos and asbestos-containing pipe lagging (a type of wrapping) under the Clean Air Act, and since then has taken steps to reduce risks from asbestos already in place in buildings. It has issued an air standard to reduce emissions from asbestos removal and renovation projects in buildings; required inspection of schools for asbestos-containing friable materials and notification of parents if any is found; and established an extensive technical assistance program, which provides guidance to public and private building owners on the identification and safe removal of asbestos. EPA has also proposed an immediately effective regulation to protect states and local public employees who take part in asbestos abatement activities.

For further information, contact Edward A. Klein, Director, Office of TSCA Assistance (TS-799), Office of Toxic Substances, Environmental Protection Agency, Rm. E543, 401 M Street, S.W., Washington, D.C. 20460. Phone toll free: (800-424-9065), in Washington, D.C.: (544-1404), outside the USA: (Operator 202-544-1404).

**FACT SHEET
FOR PROPOSED RULE TO BAN CERTAIN ASBESTOS
PRODUCTS AND PHASE OUT USE OF ASBESTOS**

BACKGROUND

Asbestos is a demonstrated human carcinogen that causes lung cancer and mesothelioma (a cancer of the chest and abdominal linings). It is associated with other cancers and also causes a serious lung disorder known as asbestosis. Asbestos is used in hundreds of products and about 240,000 metric tons were used domestically in 1984. The largest use of asbestos products is in the construction industry (e.g., asbestos-cement pipe and sheet), friction products (e.g., brakes), textiles, coatings and sealants, and packings and gaskets. Asbestos is released into the air during many stages of the lifecycle of the substance, when asbestos is mined, milled, processed, and fabricated into industrial and consumer products, and when those products are used and disposed of.

As a result of these releases, asbestos is present in ambient air. Even brief exposure at low levels may present risks. No level of exposure to asbestos is considered without risk since cases of mesothelioma have been documented as arising from short-term or low-level exposure.

REGULATORY STRATEGY FOR ASBESTOS

This proposed rule is part of a coordinated and integrated EPA strategy to control releases of asbestos from products already in place and to eliminate risks from future uses. This strategy is based on health risks and the availability of substitutes for many asbestos products.

DISCUSSION OF PROPOSED RULE

This rule under section 6 of the Toxic Substances Control Act, would ban the following asbestos products which have effective substitutes: roofing felts, flooring felts (and felt-back sheet flooring), vinyl-asbestos floor tile, asbestos clothing, and asbestos-cement pipe and fittings. The rule also would reduce or "phase down" the total amount of asbestos which may be imported or mined, in staged decrements over ten years.

(more)

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EPA is also actively considering alternatives to this proposed ban and phase-down. These alternatives involve staged bans of categories of asbestos products. One approach would ban the category of asbestos construction products, including asbestos-cement sheet and shingle as well as felts, floor tile, and A/C pipe, and asbestos clothing immediately and ban the category of asbestos friction products in five years. In addition, EPA would gather current production and exposure information on the remaining products. EPA would then propose bans on some or all of the remaining products.

A second alternative would ban all asbestos construction products and asbestos clothing immediately, ban asbestos friction products in five years, and ban the remaining asbestos in ten years.

Alternative three would ban asbestos construction products and asbestos clothing immediately. The remaining products would be phased out over ten years.

Under any alternative that EPA pursues, the Agency is considering that all products that are not immediately banned be labeled as containing asbestos. Labeling would ensure that persons working with or otherwise handling these products would know that the product contained asbestos, and it would enable them to take steps to reduce likelihood of exposure.

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ENVIRONMENTAL PROTECTION AGENCY
OFFICE OF PESTICIDES AND TOXIC SUBSTANCES

40 CFR PART 763

[OPTS - 62036 FRL; 2947-3
1]

ASBESTOS; PROPOSED MINING AND IMPORT RESTRICTIONS AND
PROPOSED MANUFACTURING, IMPORTATION,
AND PROCESSING PROHIBITIONS

AGENCY: Environmental Protection Agency (EPA).

ACTION: Proposed Rule.

SUMMARY: EPA is proposing a rule under section 6 of the Toxic Substances Control Act (TSCA) to prohibit the manufacture, importation, and processing of asbestos in certain products and to phase out the use of asbestos in all other products. The products EPA proposes to ban are asbestos-cement pipe and fittings, roofing felts, flooring felts (and felt-backed sheet flooring), vinyl-asbestos floor tile, and asbestos clothing. Under this rule, EPA would also allow only those persons with permits issued by EPA to mine or import asbestos for use in products that are not banned. Eventually, all mining or importation of asbestos would be prohibited, except for that mining or importation allowed under an exemption process. EPA is proposing this rule to reduce the serious unreasonable risk to human health

85T-1697

JMM 00000127

presented by exposure to asbestos. As an alternative, EPA is considering prohibiting the manufacture, importation and processing of categories of asbestos products at staged intervals. EPA is considering banning the manufacture, importation, and processing of asbestos construction products and asbestos clothing soon after the rule's promulgation with the category of asbestos friction products banned about 5 years later, and other asbestos products banned at a later time. EPA believes that this alternative approach would also be an effective way of reducing the serious unreasonable risk presented by exposure to asbestos and specifically requests comment on a staged ban of asbestos product categories. Finally, under both this alternative and the proposed approach, EPA is considering requiring labeling for all asbestos products that are not banned, including products manufactured pursuant to permits issued by EPA during the phase-down period, or pursuant to an exemption process. The Agency requests comments on the feasibility and effectiveness of such a requirement.

 DATES: Public hearings will be held beginning approximately (insert date 105 days after date of publication in the FEDERAL REGISTER). The exact times and locations of the hearings will be available by calling EPA's TSCA Assistance Office. Comments on this proposed rule and requests to participate in the informal hearings must be submitted by (insert date 90 days after date of publication in the FEDERAL REGISTER). Reply comments made in response to

issues raised at each hearing must be submitted no later than 1 week after the close of that hearing.

ADDRESS: Since some comments are expected to contain confidential business information, all comments should be sent in triplicate to:

Document Control Officer (TS-793),
Office of Toxic Substances,
Environmental Protection Agency,
Rm. E-209,
401 M St., SW.,
Washington, D.C. 20460.

Comments should include the docket control number OPTS - 62036. Nonconfidential comments and nonconfidential versions of confidential comments received on this proposal will be available for reviewing and copying from 8 a.m. to 4 p.m., Monday through Friday, excluding legal holidays, in Rm. E-107, at the address given above.

FOR FURTHER INFORMATION CONTACT:

Edward A. Klein,
Director, Office of TSCA Assistance (TS-799),
Office of Toxic Substances,
Environmental Protection Agency,
Rm. E-543,
401 M St., SW.,
Washington, D.C. 20460,

Toll free: (800-424-9065),

In Washington, D.C.: (554-1404),

Outside the USA: (Operator-202-554-1404).

SUPPLEMENTARY INFORMATION:

I. INTRODUCTION

Asbestos, since the advent of its large scale use, has resulted in thousands of painful, premature deaths from lung cancer and other diseases. Because of the widespread use of asbestos and its particular nature, piecemeal control of the risks it presents is not satisfactory; only elimination of asbestos to the extent feasible will produce acceptable reduction of risks. Prevention of further deaths, therefore, requires forceful, integrated action against asbestos risks. To achieve this end, EPA has established a coordinated asbestos program, aimed at controlling exposure to asbestos from products already in use and eliminating risks from future uses. The rule EPA is proposing today, which would ban certain uses of asbestos and phase out all other uses, forms a central element of this program. Regulatory alternatives, which are discussed in this notice and which involve staged bans of various asbestos product categories, could also form a central element of the program.

The risks EPA is addressing in this proposal and in its overall asbestos program are serious and well documented.

Asbestos is a known human carcinogen that causes lung cancer, mesothelioma (a cancer of the chest and abdominal lining) and is also linked to other cancers. It has been estimated that 3,300 to 12,000 cancer cases a year occur in the United States as a result of past exposure to asbestos; almost all of these cancer cases are fatal. In addition, asbestos causes asbestosis (a serious lung disorder). About 65,000 persons in the United States are estimated to be suffering from asbestosis today. Assuming current exposure levels, EPA estimates that about 2,560 persons will develop lung cancer or mesothelioma as a result of exposure to asbestos from products made over the next 15 years, unless asbestos exposures are reduced through regulatory action. As discussed later, even with a relatively low workplace PEL of 0.2 f/cc, EPA estimates that almost 1,325 cancers will result from asbestos products made over the next 15 years. The underlying data upon which the risk assessments for asbestos are based come from a number of high quality epidemiologic studies. Unlike most potential carcinogens, asbestos has been studied often and thoroughly for its effects on humans.

what studies

Asbestos presents a particularly insidious threat because of the unique quality of its fibers. These fibers are small, colorless, odorless, often invisible except through a microscope, and indestructible in most uses. They

can be transported on clothes and other materials, and they have aerodynamic features that allow them to be easily suspended and resuspended in the air and to travel long distances. Once released, asbestos fibers are difficult to detect and contain, and they readily enter the ambient air. Thus persons are exposed not only at the time and place of release, but long after the release has occurred and far from its source. There is constant renewal of risk as asbestos fibers reenter the atmosphere repeatedly over time.

Despite the known risks of asbestos, substantial amounts of the material are still mined, imported, and used in commercial products. About 240,000 metric tons, for example, were used domestically in 1984. Hundreds of products are still made with asbestos, including paper and textiles, cement pipe and sheets, tiles and felts, and automobile brakes. Asbestos fibers are released to the air at many stages of the commercial life of these products. Typical activities that lead to the release of asbestos include the mining of asbestos, fiber processing into products, installation of products (e.g, the sawing, drilling, and sanding associated with asbestos-cement products), product use (e.g., release of fibers during use of asbestos cloth), product maintenance (e.g., buffing and scraping of vinyl-asbestos floor tile or repair of asbestos-

containing brakes), dismantling and removal of products (e.g., removal of asbestos roofing felts), and disposal.

Release of fibers from these activities is substantial, resulting in exposure to both workers and non-workers. EPA estimates that about 700 metric tons are released to the air during mining and milling each year, about 100 metric tons during product manufacture, and about 18 metric tons from landfills. These estimates are probably low because they do not include releases from secondary fabrication of such products as millboard and asbestos-cement sheet, much of which is done in small shops with inadequate emission controls. Observations that levels of asbestos in the air near manufacturing plants and in cities are considerably greater than rural background levels seem to confirm that these releases occur and are significant.

Release of asbestos fibers occurs not only in the manufacture and processing of asbestos products, but also in their use and maintenance. This release can occur without the knowledge of the user or maintenance personnel. For example, construction workers tap into asbestos-cement pipes already in place. The workers often do not know that the pipe contains asbestos and thus do not take steps to limit fiber release. Similarly, significant releases occur as a result of the use and repair of asbestos brakes and other friction products, which constituted about 22 percent of the

total asbestos market in 1984. Ambient levels of asbestos are elevated near freeways, presumably due to release from asbestos brakes.

Thus, the manufacture, processing, and use of asbestos products leave a legacy of asbestos in the ambient air. This ambient loading, while difficult to quantify, is a significant problem. The National Academy of Sciences, after analyzing studies of outdoor air, estimated typical concentrations of asbestos in outdoor ambient air in urban areas to be approximately 0.00007 f/cc (Ref. 6). Many millions of people are daily exposed to these levels of asbestos in the air. The National Academy of Sciences has also estimated that persons in urban areas face a lifetime risk of between about 1 in 100,000 to about 7 in 100,000 of developing cancer as a result of asbestos in the ambient air both indoors and outside of buildings (Ref. 6). Therefore, any comprehensive control strategy must take into account the potential for exposure during the entire lifecycle of asbestos products.

To date, EPA has focused its attention primarily on asbestos in buildings, a major source of asbestos release into the ambient environment. In the 1970s, EPA banned the use of sprayed-on asbestos and asbestos-containing pipe lagging under the Clean Air Act, and since then has taken steps to reduce risks from asbestos already in place in

buildings. It has issued an air standard to reduce emissions from asbestos removal and renovation projects in buildings; issued a rule requiring inspection of schools for friable asbestos; and established an extensive technical assistance program, which provides guidance to public and private building owners on the identification and safe removal of asbestos. EPA has also proposed an immediately effective regulation to protect State and local public employees who take part in asbestos abatement activities.

These actions are primarily remedial, addressing risks from asbestos already in place; they do not address the substantial risks that will result from the continued manufacture and use of asbestos. Several other Federal agencies have already taken steps that partially reduce these risks. The Occupational Safety and Health Administration (OSHA) has an occupational standard for asbestos with a permissible exposure limit (PEL) of 2.0 f/cc. OSHA has proposed to lower this standard to either 0.2 or 0.5 f/cc. In addition, the Consumer Product Safety Commission (CPSC) has banned use of respirable asbestos in consumer patching compounds and artificial emberizing materials. However, substantial risk to workers and the general population remains. For this reason, EPA believes that only a major regulatory initiative under TSCA leading to the eventual elimination of most asbestos product

manufacture and importation can satisfactorily reduce the overall risk to all segments of the population.

The limitations of exposure-based regulations in preventing asbestos-fiber release, and the need for more comprehensive action under TSCA, are illustrated by the use of PELs to control workplace exposure. In the first place, it appears infeasible to set a PEL for asbestos low enough to reduce risk to a satisfactory level. Even at 0.2 f/cc, the lowest PEL proposed by OSHA, OSHA, using the same lung cancer and mesothelioma models used by EPA, estimates that about 7 in 1,000 asbestos workers may die from an asbestos-related disease. Furthermore, it is unreasonable to assume complete compliance with a PEL of 0.2 f/cc, especially given the nature of the asbestos industry. Many of the workers exposed are in the service and construction industries, where worksites change frequently and the worker population is transient. Also, workers often do not know they are exposed to asbestos and therefore will not take the necessary precautions. As a result, PELs and other exposure controls are difficult to apply and enforce. Beyond these considerations, a workplace-based approach does not address risks to the general population. EPA estimates that, even if OSHA reduces the PEL to 0.2 f/cc, almost 1,325 cancers will still result from asbestos products made over the next 15 years.

Because of this residual risk, EPA is proposing under section 6 of TSCA a ban on the manufacture, importation, and processing of asbestos-cement pipe and fittings, roofing felts, flooring felts (and felt-backed sheet flooring), vinyl-asbestos floor tile, and asbestos clothing. These uses would be banned because safer, economically competitive substitutes are available, and because these asbestos uses are likely to contribute large amounts of asbestos to the ambient environment or present disproportionately high risk.

★

In addition, EPA is proposing to establish a permit system to phase out all other asbestos products. Under this system, EPA would allocate permission to mine or import a specific volume of asbestos to current miners and importers. The amount of asbestos a miner or importer would be allowed to mine or import would decline every year until after 10 years no mining or importation would be allowed, except under a specific exemption. This permit system would allow the market to allocate asbestos, based on the availability and cost of asbestos substitutes. After 10 years, EPA would put in place an exemption system for those asbestos applications for which no substitutes had been developed. EPA anticipates that there will be few such applications, because the permit system would create strong incentives for the development of substitutes. EPA is also considering a requirement that all asbestos products that

are not banned be labeled as containing asbestos. This would apply to products made pursuant to permits issued by EPA to mine or import asbestos, and to products made pursuant to an exemption process.

In encouraging the development of substitutes, EPA will be promoting a significant reduction in risk. Currently, all products that are replacing asbestos in its many uses appear to present lower risk. However, EPA will monitor the development of substitutes during the 10-year phase-down period, and will use section 4 of TSCA to require testing of substitutes if necessary to ensure their safety.

As explained more fully later, EPA is also actively considering other approaches to carry out a regulatory policy of phasing out the manufacture, importation, and processing of asbestos products. Approaches under consideration include banning categories of asbestos products at staged intervals. Two categories under consideration are asbestos construction products and asbestos friction products. Under this approach, EPA would ban the manufacture, importation, and processing of all asbestos products within the category at the same time.

EPA is considering this category approach because products within each of the categories have similar exposure patterns, raise similar exposure control issues, and have similar substitutes. EPA believes that it may be good

public policy to ban such categories of products at the same time. This approach would address similar exposure patterns in the same way and treat all parts of an industry sector similarly. In addition, both the construction products category and the friction products category contain products that could substitute for other products in the category if all are not banned. Thus, a ban of the entire category may be necessary to reduce risk most effectively.

A EPA also considered referring asbestos risks to OSHA and CPSC under section 9 of TSCA. EPA decided against this approach because OSHA and CPSC, in EPA's opinion, cannot adequately reduce the risk, given their authority and current control technologies. These agencies cannot comprehensively reduce the total volume of asbestos in commerce and cannot protect all of the many population groups at risk. Thus, action by these agencies under their separate authorities would still leave a large residual risk to workers and the general population. EPA concluded, therefore, that this approach would not adequately address the risks to society posed by the continued manufacture, processing, and use of asbestos-containing products. EPA is convinced that restrictions on the manufacture, importation, and processing of asbestos and asbestos products is the surest and most effective strategy for eliminating these risks.

MINERAL MARKETING CORP OF ZIMBABWE
ASBESTOS

JMM 00000140

CALCIUM CARBONATE

JMM 00000141

J-M A/C PIPE CORP.
1751 SPERRY ROAD
STOCKTON, CA 95206

Purchase Order

BLANKET ORDER

Vendor (Name & Address)

Mineral Marketing Corp. of Zimbabwe
Agents for Shabanie
& Mashaba Mines (PVT) LTD.
c/o P.O. Box 14095
West Allis WI. 53214

as released	Show This No. On Invoice, B/L and Each Package: ↓
3-28-85	JD026

J-M Manufacturing Co., Inc.
Highway 75 N
Denison, TX.

see below
Bill to Stockton, Ca.
sea

PLANT	DEST.	PPD	CHARGE	PPD	ALLOWED	COLLECT	Taxable
✓	✓	✓	✓	✓	✓	✓	%
H30							Tax Exempt ☒

Item	Quantity	Unit	Description	Unit Price	Extension
This is a Blanket Order for record & billing purposes only to cover our partial requirement of material shown below for the period of 7-1-85 to 12-31-85.					
			Required ^{day} 60 lead time C & G5 Asbestos fiber 1,000 MT± 10%	\$408./MT	
			FOB Delivery to Denison, TX.	117./MT	
Packaging: 50 kegs/Polywoven bags, pressure packed & palletized on 2-way 48" X 39" pallets, 8 pallets, 8 ship sheets, cosie wrapped. 17.5 MT / cont.					
Material to be supplied should be the same quality as 1st trial container that JM ordered.					
Authorized JM contact: Harold Stone Authorized Supplier contact: Peter Trettin					
* Material will be billed Mineral Marketing Corp.					
Freight will be billed by Special shipping.					
JMM 00000142					

- Please furnish, subject to the conditions appearing on reverse side of this order.
- Material sold at the delivered prices or freight allowed must be shipped prepaid. No parcel post or insurance charges allowed except as provided above.
- Mail invoice in duplicate & B/L on date of shipment.

By Paul Huang *Paul H*

PURCHASING AGENT

201-00

J-M A/C PIPE CORP.

1051 SPERRY ROAD
STOCKTON, CA 95208

Purchase Requisition

BLANKET ORDER

Utilization Dept. Production		Date Prepared 3-26-85	Date Required as released	Requisitioned By J. Ramsey	P.R. No. H 8194	P.O. No. (Release No.) 30076
Suggested Vendor				Remarks: (Justification, Package, etc.) Bill to Stockton, Ca. Material will be billed Mineral Marketing Corp. Freight will be billed by Special shipping.	Deliver to: Denison, TX.	
Est. Date of Order	Date Ordered	Schedule Delivery	FOB: ☐ Point of Origin ☐ Plant ☐ Ship's Hold ☐ Destination	Est. Freight		
Ordered from: Minerals Marketing Corp. of Zimbabwe Agents for Shabante & Masbana Mines (PVT) LTD c/o P.O. Box 14095 West Hillside, Harare 53214 Tel: 381 2020			Ship Via: sea	Term: N30	B.O. No.	
			Confirm to: Peter Trettin	Charge Code		
			Taxable: ☐ Tax Exempt: ☒	Account No.		

Receiving			Item	Qty	Unit	Complete Description	Unit Price	Extension
C	D	A						
			This is a Blanket order for record & billing purposes only to cover our partial requirement of material shown below for the period of 7-1-85 to 12-31-85.					
			(Required 60 lead time) C & G5 Asbestos fiber					
						1000 MT± 10%		
						FOB Delivery to Den, TX.		
						Packaging: 50 kgs/polywoven bags, pressure packed & palletized on 2-way 48" X 39" pallets, 8 bags per pallet, 3 ship sheets, cosmic wrapped.		
						17.5 MT / cont.		
						Material to be supplied should be the same material as 1st trial container that JM ordered.		
						Authorized JM contact: Harold Stone		
						Authorized Supplier contact: Peter Trettin		
						Total		
			Date Received	APPROVAL	President	V.P.	Manager	Section Head
			Partial or Complete					
			Received By					

(Purchasing fill out Shaded areas)

Paul Huang
Purchasing Department

PURCHASING

CONNECTED

01 00 510

840610 7835522C001 2540085 15:49/15:50 ZST
FROM: 01 00 52047 SPECIAL32 HIL
TO: 01 00 52126 SPECIAL32 HIL
SUBJECT: SPECIAL SHIPPING INC
01 00 52126

YONG HUAN6/J-H A/C PIPE CORP.
20 P. BREYIN/BRIDGEGATE LTD.
11253-0

11 21 85
SUBJ: J-H DRAFT SPEC NO. TR-1982 COMMENT
FURTHER TO OUR LETTER OF NOV 7TH, WE PROVIDE POOL COMMENT
TO DRAFT SPEC NO. TR-1982 FOR CHRYSTOLE GRADE 4:
11 21 85

THE SUPPLIED UNFIRE SAMPLE IS A GOOD IDEA FOR YOU AS A
REVIEW FOR COLOR, APPEARANCE & GENERAL NATURE
OF UNFIRE SAMPLE OF C46/S WOULD BE SUBMITTED.

THE ALLOWABLE PERCENTAGES SEEM TOO TIGHT
THE RANGE WOULD BE 10% ON EACH SCREEN. LONG TERM
RANGE OF 10% TO 15% MAY SPECIFICATION "INFRACTIONS"
YOUR USING ANY SUPPLIERS' FIBER WHEREIN THE FIBER PERFORM-
ANCE MAY BE UNCHANGED AND YET MEET APPROVAL.

IN OUR LETTER OF NOV. 7TH, C46/S TYPICAL TAHER-MCHETT
RESULTS DO NOT FALL WITHIN THE DRAFTED RANGE. THE TYPICAL
VALUE OF C46/S IS 19%, ITS *14 A TYPICAL VALUE IS 27%
IS 5% HIGHER THAN THE ALLOWED 22% AND C46/S VALUE
AT 25% IS 5% BETTER THAN THE MAX. ALLOWED AT 30%
RSA - THE TYPICAL RSA VALUE OF C46/S AT 3300 DUE TO THE
THE DRAFTED RSA RANGE
FIBER WET WASH TEST - TO COMMENT FULLY WE REQUIRE 2. THE
WASH TEST METHOD USED TO DETERMINE POINT VALUE.

WITH C46/S HAVING BEEN APPROVED FOR USE AT DENISON, EITHER A SEPARATE
SPECIFICATION FOR A GRADE FIBER SUCH AS C46/S WOULD HAVE TO BE
OFFERED I.E.:

BAKER-MCHETT	% ALLOWABLE	RSA (CH2/AN)
* 4 M	9 - 12	5.150 - 6.850
* 14	25 - 29	
* 35 M	24 - 28	
* 200 M	19 - 14	
* 200	23 - 27	

OR, WE WOULD SUBMIT ANOTHER GRADE WITH TYPICAL ANALYSIS MORE IN LINE
WITH SPEC NO. TR-1982 FOR 1986 PURCHASES. HOWEVER WE DO NOT THINK
RESUBMITTING ANOTHER GRADE WOULD BE COST EFFECTIVE FOR J-H
CONSIDERING THE WORK PERFORMED TO DATE BY J-H WHEN C46/S HAS APPROVED
AT DENISON.

PART III & IV

WE PREFER AND RECOMMEND THAT A SAMPLING PROCEDURE BE FOLLOWED
THAT SUBSCRIBES TO OSHA STANDARDS SUCH AS A-1-74 "METHOD OF SAMPLING
PREPARATION" BE FOLLOWED OR ITS ANNEX A-1 "LIMITED ACCESSIBILITY
SAMPLING" SINCE STATED IN ANNEX A-1 "...THE NUMBER OF SPS FROM
WHICH 20 HANDFULS (COMPOSITE SAMPLE) ARE SELECTED MAY BE REDUCED.
BUT SHOULD NOT BE LESS THAN 10 (SPTS)"

PART V

LS SUPPLY PURCHASE SPEC. NO. TR-1982 SO COMMENT CAN BE MADE.
PART VI

NO COMMENT TO ADD.

SHOULD YOU WANT FURTHER COMMENT ON ANY ITEM PLS ADVISE
RGS

MANH

01 00 510

1.751 SPERRY ROAD
STOCKTON, CA 95208

Vendor (Name & Address)

Jac d'Amiante du Quebec LTD
c/o Eastern Chen Trading Co., LTD
5156 Sherbrooke W. Ste. 420
Montreal, Que., Canada H4A 1T6
(514) 482-1231 ATTN: T. Y. Chen

BLANKET ORDER

Delivery Schedule as released	Show This No. On Invoice, B/L and Each Package. ↓
Issue Date 3-28-85	Package Group No. JD021

J-M Manufacturing Co., Inc. Highway 75N Denison, TX. 75020	Bill To:	FOB:	Taxable:
	Ship Via:	PLANT DEST. ☐ ☒ ☐ ☐ ☐ ☒ ☐ Terms: N30	_____ % Tax Exempt ☒

Item	Quantity	Unit	Description	Unit Price	Extension
Add the following item on this existing blanket order.					
			Asbestos fiber 5R-3	\$385.7MT	
The rest of this blanket order remains unchanged.					
JMM 00000145					

JMM 00000145

1. Please furnish, subject to the conditions appearing on reverse side of this order.
2. Material sold at the delivered prices or freight allowed must be shipped prepaid. No parcel post or insurance charges allowed except as provided above.
3. Mail invoice in duplicate & B/L on date of shipment.

By Paul Huang

PURCHASING AGENT

1051 SPERRY ROAD
STOCKTON, CA 95208

BLANKET ORDER

P.R. No. H 8193	P.O. No. (Release No.) JD021
---------------------------	--

Quisklon Dept.	Date Prepared	Date Required	Requisitioned By	Project No. (w/o No.)	Change No.
Production	3-28-85	as released	J. Ramsey		
Suggested Vendor			Remarks: (Justification, Package, etc.)	Deliver to:	
				Denison, TX.	
Est. Date of Order	Date Ordered	Schedule Delivery	FOB:		Est. Freight
			PLANT ☐	DEST. ☒	
				PPD CHARGE ☐	
				PPD ALLOWED ☒	
				COLLECT ☐	
Ordered From			Ship Via	Terms	B.O. No.
Lac d'Amiante du Quebec LTD				N30	
c/o Eastern Chen Trading Co., LTD			Confirm to:		Charge Code
5156 Sherbrooke W. Ste. 420			T. Y. Chen		
Montreal, Que., Canada H4A 1T6					Account No.
(514) 482-1231			Taxable ☒		Tax Exempt ☐

Receiving			Item	Qty.	Unit	Complete Description	Unit Price	Extension	
C	D	A							
			Add the following item on this existing blanket order						
						Asbestos fiber SR-3	\$385./MT		
			The rest of this blanket order remains unchanged.						
							Total		
			Date Received			President	V.P.	Manager	Section Head
			Partial or Complete						
			Received By						
JMM 00000146									

JMM 00000146

Paul Huang *Paul Huang*
Purchasing Department

PURCHASING

1051 SPERRY ROAD
STOCKTON, CA 95208

BLANKET ORDER

1057 SPERRY ROAD STOCKTON, CA 95208				P.R. No. H 8200		P.O. No. (Release No.)	
Requisition Dept. PRODUCTION		Date Prepared 1/4/85		Date Required AS RELEASED		Requisitioned By J. RAMSEY	
Suggested Vendor Lac d'Amiante du Quebec LTD. c/o Eastern Chen Trading Co., LTD. 5156 Sherbrooke W., STE. 420 Montreal, Que., Canada H4A 1T6 (514) 482-1231				Remarks: (Justification, Package, etc.) BILL TO HQ ACCOUNTING, STOCKTON, CA.		Deliver to: DENISON (JD021) STOCKTON (JS021)	
Est. Date of Order		Date Ordered		Schedule Delivery		FOB BLACK LAKE QUE. PLANT ☐ DEST. ☒ PPD CHARGE ☐ PPD ALLOWED ☒ COLLECT ☐	
Ordered From				Ship Via SEE BELOW		Terms N30	
B.O. No.				Charge Code		Account No.	
Confirm to: T.Y. CHEN				Taxable _____ %		☒ Tax-Exempt	
Receiving		Item		Qty.		Unit	
C B A		Complete Description		Unit Price		Extension	
		Blanket Order for record & billing purposes only to cover our partial requirement of material shown below for the period of 1/1/85 to 12/31/85.					
		DENISON ASBESTOS FIBER 4T-3 approx. 2500 ST		\$568.00/MT		STOCKTON \$568.00/MT	
		for ea. plant ASBESTOS FIBER 5R-3 approx. 1,000 ST		\$397.00/MT			
		If BPA or any government agencies ban A/C pipe in the USA. All Lake fiber in J-M warehouse may be returned for credit & freight will be negotiated by both parties. Material to be supplied will be shipped via Piggyback (T.O.P.C.) on slipsheets & shrink-wrapped unit for Denison, TX. and via railcar, packed 1,200 bags per car with shrink-wrapped unit, bottom unit on slip sheets, second unit on pallet for Stockton, CA. Upon receiving Blanket Order, supplier to send confirmed order back is required.					
				Total			
Date Received		President		V.P.		Manager	
Partial or Complete		Section Head					
Received By							

(Purchasing fill out Shaded areas)

Paul Huang *Paul H*
Purchasing Department

PURCHASING

J-M A/C PIPE CORP.

 1751 SPERRY ROAD
 STOCKTON, CA 95206

Purchase Order
BLANKET ORDER CHANGE
Vendor (Name & Address)

 SAC. D'AMIANTE DU QUEBEC LTD.
 C/O EASTERN CHEN TRADING CO., LTD.
 1117 SUITE-CATHERINE ST. WEST
 MONTREAL, QUE. CANADA H3B1H9
 (514) 281-0141 T.Y. CHEN

Delivery Schedule	Show This No. On Invoice
AS RELEASED	B/L and Each Package ↓
Issue Date	Purchase Order No.
9/17/85	JD021

J-M MANUFACTURING HIGHWAY 75N DENISON, TX 75020	BILL TO:	STOCKTON ACCOUNTING	FOB:	PLANT	DEST.	PPD CHARGE	PPD ALLOWED	COLLECT	Taxable
	Ship Via:	PIGGY BACK	Terms:	☐	☒	☐	☒	☐	— %
			NET 30						Tax Exempt ☒

Item	Quantity	Unit	Description	Unit Price	Extension																		
H8406			EFFECTIVE 9/17/85 THE PRICE OF ASBESTOS FIBER WILL BE REVISED AS FOLLOWS: <table> <tr> <td><u>OLD</u></td><td></td><td></td><td></td><td></td><td><u>NEW</u></td></tr> <tr> <td>ASBESTOS FIBER 4T-3</td><td></td><td></td><td>\$568.00/MT</td><td></td><td>\$549.00/MT</td></tr> <tr> <td>ASBESTOS FIBER 5R-3</td><td></td><td></td><td>\$385.00/MT</td><td></td><td>380.00/MT</td></tr> </table> THE REST OF THIS BLANKET ORDER REMAINS UNCHANGED.	<u>OLD</u>					<u>NEW</u>	ASBESTOS FIBER 4T-3			\$568.00/MT		\$549.00/MT	ASBESTOS FIBER 5R-3			\$385.00/MT		380.00/MT		
<u>OLD</u>					<u>NEW</u>																		
ASBESTOS FIBER 4T-3			\$568.00/MT		\$549.00/MT																		
ASBESTOS FIBER 5R-3			\$385.00/MT		380.00/MT																		
					JMM 00000148																		

- Please furnish, subject to the conditions appearing on reverse side of this order.
- Material sold at the delivered prices or freight allowed must be shipped prepaid. No parcel post or insurance charges allowed except as provided above.
- Mail invoice in duplicate & B/L on date of shipment.

By PAUL HUANG

PURCHASING AGENT

201-402

1051 SPERRY ROAD
STOCKTON, CA 95206

RECEIVED SEP 20 1985

Blanket Order

JUN 1987 SPERRY ROAD STOCKTON, CA 95206						P.R. No. H 8406	P.O. No. (Release No.) JD021
Justification Dept.		Date Prepared	Date Required	Requisitioned By	Project No. (w/o No.)	Change No.	
PRODUCTION		9/17/85	AS RELEASED	HAROLD STONE		2	
Suggested Vendor				Remarks: (Justification, Package, etc.)		Deliver to:	
						DENISON, TX	
Est. Date of Order	Date Ordered	Schedule Delivery	FOB PLANT ☐	DEST. ☒	PPD CHARGE ☐	PPD ALLOWED ☒	COLLECT ☐
Ordered From			Ship Via	Terms	Est. Freight		
LAC. D'AMIANTE DU QUÉBEC LTD.			PIGGY BACK	N30			
C/O EASTERN CHEN TRADING CO., LTD.			Confirm to:		B.O. No.		
1117 SUITE-CATHERINE ST. WEST			T.Y. CHEN		Charge Code		
MONTREAL, QUE. CANADA H3B1H9			Taxable _____ %		☒ Tax Exempt		Account No.
(514) 281-0141							
Receiving			Item	Qty.	Unit	Complete Description	Unit Price
C	B	A					Extension
						EFFECTIVE 9/17/85, THE PRICE OF ASBESTOS FIBER WILL BE REVISED AS FOLLOWS:	
						OLD	NEW
						ASBESTOS FIBER 4T-3 \$568.00/MT	\$549.00/MT
						ASBESTOS FIBER 5R-3 \$385.00/MT	\$380.00/MT
						THE REST OF THIS BLANKET ORDER REMAINS UNCHANGED.	
						Total	
Date Received			President		V.P.	Manager	Section Head
Partial or Complete							
Received By							JMM 00000149

(Purchasing fill out Shaded areas)

PAUL HUANG *Paul*
Purchasing Department

PURCHASING

J-M A/C PIPE CORP.
1051 SPERRY ROAD
STOCKTON, CA 95206

Purchase Order

RECEIVED 04/11/85

Vendor (Name & Address)

LAC. D'AMIANTE DU QUEBEC LTD.
C/O EASTERN CHEN TRADING CO., LTD.
1117 SUITE-CATHERINE ST. WEST
MONTREAL, QUE. CANADA H3B1H9
(514) 281-0141 T-Y. CHEN

BLANKET ORDER CHANGE

Delivery Schedule:	Show This No. On Invoice:
AS RELEASED	B/L and Each Package ↓
Issue Date:	Purchase Order No.
9/17/85	JD021

J-M MANUFACTURING
HIGHWAY 75N
DENISON, TX 75020

Bill To: STOCKTON ACCOUNTING
Ship Via: PIGGY BACK

FOB	PLANT	DEST.	CHARGE	PPD	ALLOWED	COLLECT
	☐	☒	☐	☐	☒	☐
Terms:	NET 30					

Taxable	%
Tax Exempt	☒

Item	Quantity	Unit	Description	Unit Price	Extension
------	----------	------	-------------	------------	-----------

H8406

EFFECTIVE 9/17/85 THE PRICE OF ASBESTOS FIBER
WILL BE REVISED AS FOLLOWS:

OLD

ASBESTOS FIBER 4T-3 \$568.00/MT
ASBESTOS FIBER 5R-3 \$385.00/MT

NEW

\$549.00/MT
380.00/MT

THE REST OF THIS BLANKET ORDER REMAINS UNCHANGED.

EASTERN CHEN TRADING CO. LTD. LAC D'AMIANTE DU QUEBEC

Roland P. Gagnon
Senior VP - Marketing

REC'D BLACK LAKE	
4 - OCT '85	
JD	
RPG	
PS	
ME	
LCW	
IP	

JMM 00000150

- Please furnish, subject to the conditions appearing on reverse side of this order.
- Material sold at the delivered prices or freight allowed must be shipped prepaid. No parcel post or insurance charges allowed except as provided above.
- Mail invoice in duplicate & B/L on date of shipment.

By PAUL HUANG

VENDOR

**J-M Manufacturing
Company, Inc.**

1731 SPERRY ROAD
STOCKTON, CA 95220

Purchase Order

Vendor (Name & Address)

Lac d'Amiante du Quebec LTD.
c/o Eastern Chen Trading Co., LTD.
5156 Sherbrooke W., STE. 4200
Montreal, Que., Canada H4A 1T6
ATTN: T.Y. CHEN (514) 482-1231

BLANKET ORDER

Delivery Schedule	Show This No. On Invoice
AS RELEASED	B/L and Each Package
Issue Date	Purchase Order No.
1/4/85	SEE BELOW

SHIP TO	DENISON, TX. (JD021)	Bill To	HQ Accounting-Stockton, CA.	FOB: BLACK LAKE, ONT.	Taxable
	STOCKTON, CA. (JS021)	Ship Via	SEE BELOW	PLANT DEST. CHARGE ALLOWED COLLECT	%
				Terms	Tax Exempt ☒
				N30	

Item	Quantity	Unit	Description	Unit Price	Extension
Blanket Order for record & billing purposed only to cover our partial requirement of material shown below for the period of 1/1/85 to 12/31/85.					
			DENISON, TX		STOCKTON, CA.
ASBESTOS FIBER 4T-3	approx. 2,500	ST	\$568.00/MT	\$568.00/MT	
			for ea. plant		
ASBESTOS FIBER 5R-3	approx. 1,000	ST	\$397.00/MT	\$397.00/MT	
If EPA or any government agencies ban A/C pipe in the USA. All Lake fiber in J-M warehouse may be returned for credit & freight will be negotiated by both parties. Material to be supplied will be shipped via Piggyback (T.O.F.C.) on slipsheets & shrink-wrapped unit for Denison, TX. and via railcar, packed 1,200 bags per car with shrink-wrapped unit, bottom unit on slipsheets, second unit on pallet for Stockton, CA. Upon receiving Blanket Order, supplier to send confirmed order back is required.					
JMM 00000151					

1. Please furnish, subject to the conditions appearing on reverse side of this order.
2. Material sold at the delivered prices or freight allowed must be shipped prepaid. No parcel post or insurance charges allowed except as provided above.
3. Mail invoice in duplicate & B/L on date of shipment.

By Paul Huang

[Signature]

PURCHASING AGENT

J-M Manufacturing Company, Inc.

Purchase Order

1051 SPERRY ROAD
STOCKTON, CA 95208

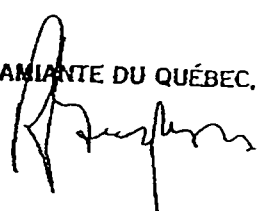
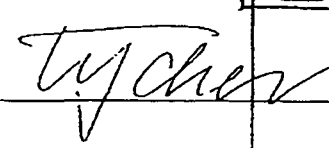
Vendor (Name & Address)

Lac d'Amiante du Quebec LTD.
c/o Eastern Chen Trading Co., LTD.
5156 Sherbrooke W., STE. 4200
Montreal, Que., Canada H4A 1T6
ATTN: T.Y. CHEN (514) 482-1231

BLANKET ORDER

Delivery Schedule	Show This No. On Invoice
AS RELEASED	B/L and Each Package. ↓
Issue Date	Purchase Order No.
1/4/85	SEE BELOW

ITEM NO.	DENISON, TX. (JD021)	SHIP TO:	HQ Accounting-Stockton, CA.	FOB BLACK LAKE, QUEBEC	PLANT DEST. CHARGE ALLOWED COLLECT	Taxable
	STOCKTON, CA. (JS021)	Ship Via	SEE BELOW	Terms	N30	Tax Exempt ☒

Item	Quantity	Unit	Description	Unit Price	Extension
Blanket Order for record & billing purposed only to cover our partial requirement of material shown below for the period of 1/1/85 to 12/31/85.					
				DENISON, TX	STOCKTON, CA.
ASBESTOS FIBER 4T-3	approx. 2,500	ST	for ea. plant	\$568.00/MT	\$568.00/MT
ASBESTOS FIBER 5R-3	approx. 1,000	ST		\$397.00/MT	
If EPA or any government agencies ban A/C pipe in the USA. All Lake fiber in J-M warehouse may be returned for credit & freight will be negotiated by both parties. Material to be supplied will be shipped via Piggyback (T.O.F.C.) on slipsheets & shrink-wrapped unit for Denison, TX. and via railcar, packed 1,200 bags per car with shrink-wrapped unit, bottom unit on slipsheets, second unit on pallet for Stockton, CA. Upon receiving Blanket Order, supplier to send confirmed order back is required.					
LAC D'AMIANTE DU QUÉBEC, LTÉE 			EASTERN CHEN TRADING CO. LTD. 		

REC'D
BLACK LAKE
22 JAN 85
JO
RPG
FE
IFP
ER
MR
LCW
CO. LTD.

- Please furnish, subject to the conditions appearing on reverse side of this order.
- Material sold at the delivered prices or freight allowed must be shipped prepaid. No parcel post or insurance charges allowed except as provided above.
- Mail invoice in duplicate & B/L on date of shipment.

By Paul Huang

JMM 00000152

VENDOR

ASBESTOS

TELEX: 05-833572
CABLE: "AMASCOLIM"
TÉLÉPHONE (418) 338-2181

ENTERED FEB 11 1985
SOCIÉTÉ ASBESTOS LIMITÉE
ASBESTOS CORPORATION LIMITED
C.P. / P.O. BOX 519, THETFORD-MINES, QUÉBEC, CANADA, G6G 5T6

AIR MAIL

Thetford-Mines, Qc, Canada
February 4, 1985

J-M A/C PIPE CORPORATION
1051 Sperry Road
Stockton, Ca. 95206
U.S.A.

Attention: Mr. Paul Huang

Dear Sirs:

We are in receipt of your blanket order dated January 4, 1985 for 1,000 s.t. for each plant of asbestos fibre N-479-4T, at a price of \$515.00 U.S. per short ton C & F Denison, Tx. or Stockton, Ca.

We thank you very much for this order and rest assured that the quality of the fibre that will be shipped to you in 1985 will be the same as the last shipment you received at both plants, with which you were very satisfied.

Awaiting to receive your releases in a near future, we remain,

Yours very truly,


Claude Limoges
Sales Director

CL/hlg

JMM 00000153

FOURNISSEUR D'AMIANTE À L'ÉCHELLE MONDIALE
WORLDWIDE SUPPLIER OF ASBESTOS

TEL: (514) 484-3235

TELEX: 055-67125
EAST CHEN MTL

EASTERN CHEN TRADING CO. LTD.
LES ENTREPRISES DE L'ORIENT CHEN CO. LTÉE
5165 SHERBROOKE ST. W., SUITE 420, MONTRÉAL, QUÉ., CANADA H4A 1T6

July 26, 1985

Mr. Paul Huang
Purchase Manager
J-M A/C Pipe Corp.
1051 Sperry Road
Stockton, CA.
95206 U.S.A.

Dear Mr. Huang:

Our office has been relocated to the following address:

1117 Ste-Catherine St. West
Suite 603
Montreal, Quebec
H3B 1R9

Tel: (514) 281-0141

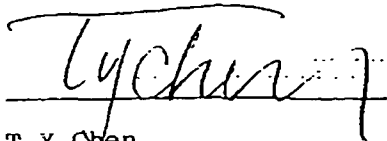
Mailing Address:
P.O. Box 991, Station A
Montreal, Quebec
H3C 2W9

and my personal residence:

110 Astoria Ave.
Pointe-Claire, Quebec
H9S 5A8

Tel: (514) 695-8997

Best regards,



T. Y. Chen

JMM 00000154

RECEIVED SEP 03 1985

Montreal Gazette- August 28, 1985

Province under fire over its plan to reorganize asbestos industry

A planned reorganization of the financially-troubled asbestos industry by the Quebec government has come under fire from opposition politicians and the asbestos workers' union.

The union representing 725 workers to be laid off as part of the plan said yesterday the government has created an "employment disaster zone" without regard for the seniority of the affected workers.

Three of six mines and two of five milling installations in the asbestos mining region, 190 kilometres east of Montreal, will be closed so the industry can be operated on a financially sound basis, Energy Minister Jean-Guy Rodrigue said when he announced the plan Aug. 16.

The reorganization calls for a limited partnership of the three mining companies — two of them provincially controlled — to run the mines and pool sales

efforts. Asbestos Corp. will close its Beaver mine and Normandic treatment plant, while Lake Asbestos Ltd. will shut its National mine and mill.

Asbestos Corp. and Lake Asbestos Ltd. are owned by the government's holding company, the Société nationale de l'amiante.

Asbestos Corp. will also close its King mine next year. The new partnership will start with \$35 million cash — 40 per cent from the the government holding company and 60 per cent from Lake Asbestos.

Rodrigue said he regretted the loss of 725 jobs, but the pooling would protect 1,500.

"Nothing has been seen from the government respecting seniority and protecting workers who in some cases have given 25 years of their lives to the mines," the Confederation of National Trade Unions affiliate

said in a statement.

"On the other hand, workers who have been employed for five years are keeping their jobs by virtue of the plan announced by the minister."

The unions maintained the layoffs violate provincial labor code clauses requiring new owners of an enterprise to respect contracts.

The union pointed out the Thetford Mines area had been hard hit by unemployment and that measures should be taken to soften the effects of the plan. They suggested rather than layoffs that older workers be given early retirement.

Liberal energy critic Pierre Fortier called the entire attempt to expropriate the industry an economic fiasco that necessitated the reorganization plan. He called the new scheme "an obvious setback."

Canadian Press

* N.B. Editorial error. Should read "Bell Asbestos"

TEL: (514) 281-0141

EASTERN CHEN TRADING CO., LTD.

Bih-Ju Chen

1117 STE-CATHERINE ST. W.,
SUITE 603
MONTREAL, QUEBEC, H3B 1H9
CANADA

JMM 00000155

JS HQ STO

LAST CHRM TEL

DEC. 22, 1964

ATTN: MR. PAUL RUANO

RE: OFFERING WHITE ASBESTOS FIBER FOR 1965

FRONT: LAG LANE ASBESTOS

PRICE: DELIVERED TO STOCKTON OF DENISON
IN U.S. FUND PER FIBER TON

470	STOCKTON	577.60
	DENISON	567.60

550	STOCKTON	480.00
	DENISON	390.00

WE LOOK FORWARD TO HEARING FROM YOU

REGARDS

TY CHEN

EASTERN CHINA TRADING CO.

JM HC STC

EAST CHEN MTL

Paul 1/3/8

JAN. 3, 1988

ATTN: MR. PAUL RUANO

CONFIRMING OUR TELEPHONE CONVERSATION OF JAN. 3, 1988
RE: OFFERING WHITE ASBESTOS FIBER FOR 1988

REMARK: LAC LAM ASBESTOS
PRICE: DELIVERED TO STOCKTON CT DENISON
IN U.S. FORT PER METRIC TON

4T3 STOCKTON 568.22
DENISON 568.22

5P3 STOCKTON 397.22
DENISON 397.22

ELCARTS
TY CHEN
EASTERN CHEN TRADING CO.

+
JM HC STC

EAST CHEN MTL

lex Western Union Telex

JM HG STC
ATTN: PAUL HUANG
JM A/C PIPE COMPANY

121245
12/12/84

SUBJECT: QUOTATION BY MINERALS MARKETING CORP. FOR
SUPPLYING CNG 5 ASBESTOS PIPE - FENISON

QUOTATION TO BECOME SUPPLIER FOR 2002 MT OF 42 BUSINESS
AT FENISON BEING EFFECTIVE IMMEDIATELY:

PRICE: USDLF 412.28/SHORT TON FOR PIPE.

TERMS: NET 30 DAYS OF PIPE FILLED BY MINERALS MARKETING
CORP. OF ZIMBABWE.

FREIGHT: USDLF 122.28/SHORT TON FOR DELIVERY TO FENISON, TO
FREIGHT COST SUBJECT TO CHANGE WITHOUT NOTICE.
EXCLUDES CARGO INSURANCE, CUSTOMS ENTRY, RECEPT'S
FEES, LOCAL DUTIES AND TAXES. FET WILL BE QUOTED BY
THE SHIPPING CO. AND WILL BE FILLED BY THEM AS IN PAST.

PACKAGING: INCLUDED IN PIPE PRICE - 50 YDS/POLYWOVEN BAG;
PRESSURE FACED AND PALLETIZED ON 4-WAY 48"X36" PALLETS;
16 PALLETS/CONT; 2 LAYERS OF PALLETS; 17.5 MT/CONT
(10.3 SHORT TONS/CONT) PACKED AS YOUR LAST OFFER.

SCHEDULING: SAILINGS EVERY 4-6 WEEKS, REQUEST ABOUT 60 DAYS
LEAD TIME.

PER ABOVE TOTAL PRICE TO FENISON IS USDLF 532.20/ST.

PURCHASE ORDER FOR MINERALS MARKETING CNG 5 SHOULD BE MADE
OUT TO: MINERALS MARKETING CORP. OF ZIMBABWE, C/O P.O. BOX
14295, WEST ALLIS, WI 53414.

LOOKING FORWARD TO RECEIVING YOUR ORDER. SHOULD YOU HAVE
ANY QUESTIONS PLS ADVISE.

BEST REGARDS
F. TETTIN
PRAYGATE LTD.

JM HG STC

.....
1233 EST+
JM HG STC

JMM 00000158

 Johns-Manville PURCHASE SPECIFICATION	SPECIFICATION NUMBER	PAGE NO.	1 of 4
	TR-1900-8	ISSUED DATE	11/19/80
MATERIAL		CANCELS	TR-1900-7
BLUE ASBESTOS FIBER (CROCIDOLITE)		LOCATIONS	P32, P48, P55

NO CHANGE IN MATERIAL MAY BE MADE BY THE SUPPLIER WITHOUT WRITTEN APPROVAL OF JOHNS-MANVILLE.
IMPORTANT: ALWAYS INCLUDE THE SPECIFICATION NUMBER WHEN REFERRING TO THIS COMMODITY.

I. GENERAL DESCRIPTION:

Fiber covered by this specification shall be crocidolite (blue asbestos of the amphibole type). An "umpire" sample shall be submitted by the vendor which will be used to determine whether incoming shipments compare favorably with this sample in regard to color, general appearance, and general characteristics.

II. DETAILED REQUIREMENTS:

The fiber, when tested in accordance with JM Test Method TR-425-52 shall conform to the following specifications:

<u>McNett Wet Screen</u>	<u>Range</u>
+ 14 Mesh Fiber	54% - 60%
- 100 Mesh Fines	31% - 37%
+ 14 Rock	3% Max.

III. SAMPLING PROCEDURE:

Lot - For purposes of sampling, a lot shall consist of not over one car-load, produced under essentially the same conditions and offered for inspection at one time.

Procedure - From each lot the inspector shall take a sample from each of 25 bags at random. Five composite samples be prepared, each composite representing 5 separate bags.

IV. INTERPRETATION OF TEST RESULTS:

The test results of each composite sample shall conform to the detailed requirements of (2) above.

V. PACKAGING AND SHIPPING:

A. Fiber shall be packaged in a woven polyethylene bag, (polypropylene-alternate) containing 50 kilos (110.23 lbs.) measuring 1016 mm long x 546 mm wide x 241 mm high (40" x 21-1/2" x 9-1/2").

B. Bagged fibre shall be compressed into a bale containing six (6) bags, for a total weight of 300 kilos (661.38 lbs.) and measuring 1118 mm long x 559 mm wide x 686 mm high (44" x 22" x 27"). Each bale shall be banded with four (4) each 5 mm nail wires, equally spaced in the length dimension and each securely sealed. Because of the clip protruding, a protective cover of some material should be applied or affixed to the clip to prevent tearing and or abrasion of adjacent bags. A warning label with instructions for properly cutting the nail wire shall be placed on clip side of the bale. Each bale shall be distinctly marked showing the fibre grade.

X — INDICATES CHANGE Denotes change

JM-126-A

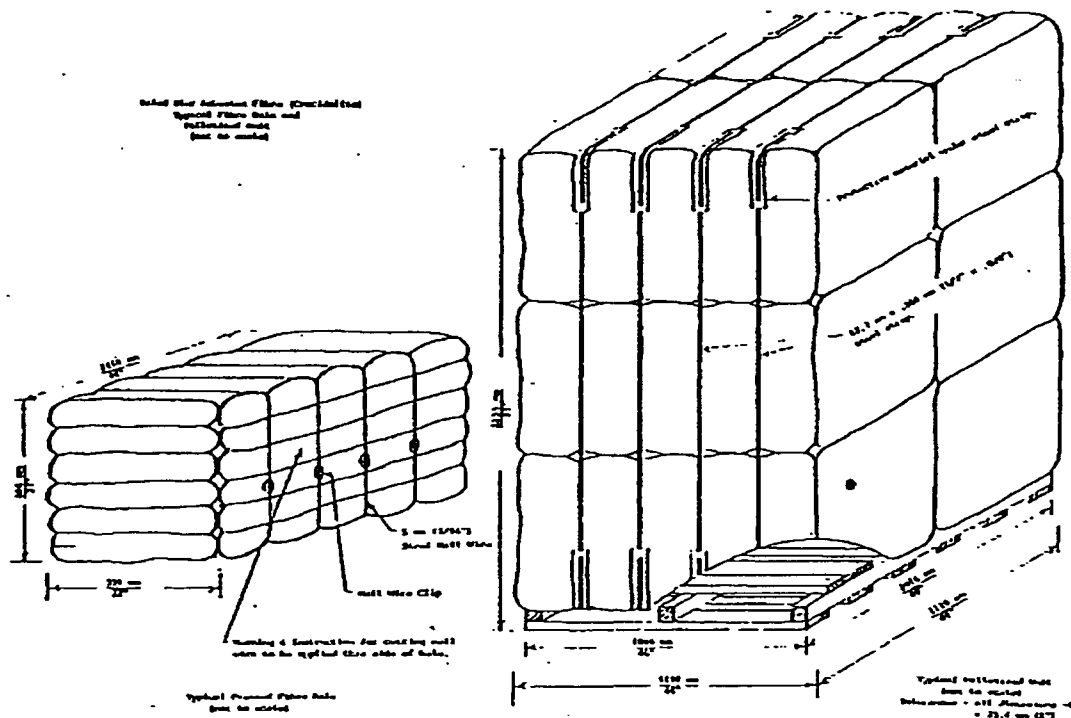
JMM 00000159

 Johns-Manville PURCHASE SPECIFICATION	SPECIFICATION NUMBER TR-1900-8	PAGE NO. 2 of 4	ISSUED DATE 11/19/80
INTERNAL BLUE ASBESTOS FIBER (CROCIDOLITE)		CANCELS TR-1900-7	LOCATIONS P32, P48, P55
NO CHANGE IN MATERIAL MAY BE MADE BY THE SUPPLIER WITHOUT WRITTEN APPROVAL OF JOHNS-MANVILLE. IMPORTANT: ALWAYS INCLUDE THE SPECIFICATION NUMBER WHEN REFERRING TO THIS COMMODITY.			
V. PACKAGING AND SHIPPING: (Continued)			
C. Baled units shall be loaded two (2) bales deep by three (3) bales high, for a total of six (6) bales on a flush stringer, double faced, non-reversible, 2-way entry pallet. (See attached sketch for pallet dimensions and specific construction). Each bale shall be placed on the pallet and on top of each other with the 5 mm nail wire clip facing inward toward the center of the pallet. A minimum of two (2) steel straps 12.7 mm wide x .508 mm thick (1/2" x .020") minimum shall be used to secure the six (6) bales to the pallet. Protective material, such as pieces of paraweb sling, molded plastic strips, or equivalent; of sufficient length to prevent the steel from cutting or abrading the fibre bags; shall be placed under each steel strap at each location where the strap is in contact with a corner of a bale. Each strap shall be securely tensioned and sealed. Total net weight for a six (6) bale (36 bags) palletized unit shall be 1.8 metric tons (3968 lbs.) and for a four (4) bale (24 bags) palletized unit shall be 1.2 metric tons (2646 lbs.). See the attached sketches for the bale and palletized unit construction with dimensions and tolerances.			
D. <u>Shipment:</u> Palletized units shall be loaded into standard 6.1 meter (20 ft.) long containers. Each container shall contain the following number of palletized units: 1. <u>Preferred:</u> Ten (10) palletized units, each containing 36 bags of fibre for a total of 360 bags, net weight of 18.0 metric tons (39683 lbs.) per container. 2. <u>Alternate:</u> Nine (9) palletized units of 36 bags per unit plus one (1) palletized unit of 24 bags for a total of 348 bags, net weight of 17.4 metric tons (38361 lbs.) per container.			
E. This material is classified as a hazardous material and shall be packaged in accordance with DOT regulations 49 CFR.			
<u>NO FIBRE BAGS SHALL BE SHIPPED WITH BAGS DAMAGED AND FIBRE EXPOSED.</u> <u>ALL DAMAGED BAGS MUST BE TAPED WITH A MATERIAL TO INSURE COMPLETE AND ADEQUATE COVERAGE OF THE DAMAGED AREA.</u>			
VI. HAZARDOUS MATERIALS REQUIREMENTS:			
A. <u>Department of Transportation (49 CFR)</u> The material is classified as a hazardous material and shall be packaged, marked and labelled in accordance with 49 CFR. 1. DOT Proper Shipping Name - Asbestos. 2. DOT Hazard Class - ORM-C. 3. Regulated as of April 30, 1979 (See Federal Register, December 4, 1976, page 56664).			
X - INDICATES CHANGE			

JMM 00000160

 Johns-Manville PURCHASE SPECIFICATION	SPECIFICATION NUMBER	PAGE NO.	3 of 4
	TR-1900-8	ISSUED DATE	11/19/80
MATERIAL	BLUE ASBESTOS FIBER (CROCIDOLITE)	CANCELS	TR-1900-7
		LOCATIONS	P32, P48, P55

NO CHANGE IN MATERIAL MAY BE MADE BY THE SUPPLIER WITHOUT WRITTEN APPROVAL OF JOHNS-MANVILLE.
 IMPORTANT: ALWAYS INCLUDE THE SPECIFICATION NUMBER WHEN REFERRING TO THIS COMMODITY.

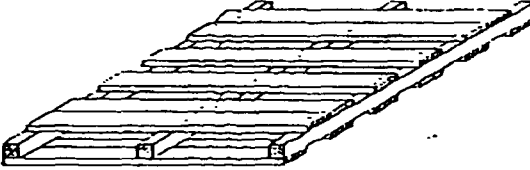


X — INDICATES CHANGE

JMM 00000161

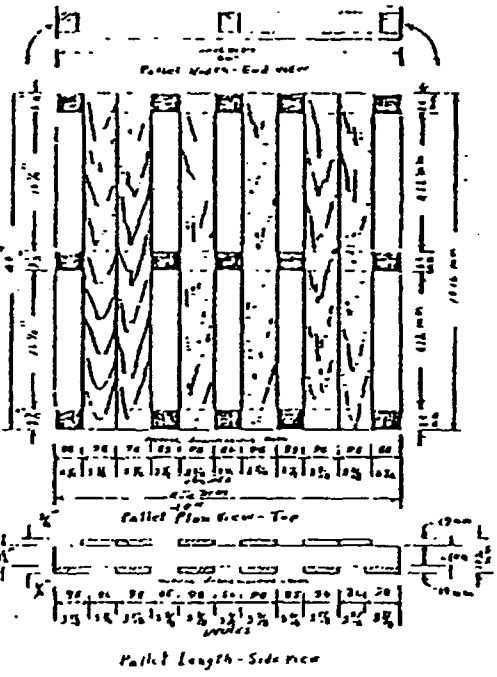
 Johns-Manville PURCHASE SPECIFICATION	SPECIFICATION NUMBER	PAGE NO.	4 of 4
	TR-1900-8	ISSUED DATE	11/19/80
MATERIAL BLUE ASBESTOS FIBER (CROCIDOLITE)	CANCELS		TR-1900-7
	LOCATIONS		P32, P48, P55

NO CHANGE IN MATERIAL MAY BE MADE BY THE SUPPLIER WITHOUT WRITTEN APPROVAL OF JOHNS-MANVILLE.
 IMPORTANT: ALWAYS INCLUDE THE SPECIFICATION NUMBER WHEN REFERRING TO THIS COMMODITY.



Typical Pallet - 4' high untreated, double faced, non-skidable, heavy duty pattern.
 (not to scale)

Pallet Construction and Dimensions



Pallet Width - End view

Pallet Plan View - Top

Pallet Length - Side view

X — INDICATES CHANGE

Telex Western Union Telex Western Union Telex Western Union Telex Western Union

TELETYPE MESSAGE TTY T

(17)9731628/STATEMENT
OF HC STO

REPLY VIA WESTERN UNION TELEGRAPH-DIAL 128
EST 2151 NOV/16/1984

OF HC STO

ASBESTOS LTD

TO: JOHNS-MANVILLE/STOCKTON

NOV. 12/84

11-414

ATTN: MR. P. FLANG

A FEW DAYS AGO, THE CANADIAN PRESS, SUPPORTED BY SEVERAL NEWSPAPERS,
RELEASED NEWS SPECIFYING THAT A.C.L. WILL BE LAYING OFF 800 EMPLOYEES
FOR AN UNDETERMINED PERIOD OF TIME. WE HAVE RECEIVED SEVERAL
TELEPHONE CALLS ENQUIRING ABOUT THE IMPLICATIONS OF SUCH NEWS, AND WE
FEAR THAT OUR COMPETITORS ARE GIVING THE ADVERSE IMPLICATION OF A
PERMANENT CLOSURE.

WE WISH TO INFORM YOU THAT THIS ANNOUNCEMENT OF A TEMPORARY
CLOSURE IS A PART OF OUR USUAL SUSPENSION OF OPERATIONS, WHICH WE
HAVE COME THROUGH OVER THE LAST 2 YEARS, IN ORDER TO ADJUST
PRODUCTION TO CURRENT SALES.

THE ONLY DIFFERENCE, THIS TIME, IS THAT WE CANNOT BE GIVING AN
EXACT PERIOD OF CLOSURE, IN ORDER TO AVOID SEVERAL RESTRICTIONS AND
COMPLICATIONS RELATED TO COMPULSORY PRE-ADVISE TO OUR EMPLOYEES, AND
RETAIN A MOST DESIRABLE FLEXIBILITY.

AS IT STANDS, BOTH MCLENNAN AND BRITISH-CANADIAN OPERATIONS WILL
RESUME ITS ACTIVITIES DURING THE FIRST QUARTER OF 1985, DEPENDING ON
OUR CASH FLOW AND OUR STOCK LEVEL.

BEFORE THE CLOSURE OF MC ON NOVEMBER 17 AND MCLENNAN ON NOVEMBER 18,
ADEQUATE PROVISIONS HAVE BEEN PROVIDED QUALITY REQUIREMENTS.

IF YOU REQUIRE FURTHER INFORMATION, PLEASE DO NOT HESITATE TO CONTACT
THE UNDERSIGNED.

Kindest regards,

JEAN-PAUL LEBLANC

VICE-PRESIDENT MARKETING

ASBESTOS CORPORATION LIMITED

....VVVV

JMM 00000163

Lone Mineral Expert Tries to Calm Government Down About Asbestos

A U.S. Geological Survey employee says the panic over asbestos in schools is overblown. But Congress still authorized funds to help schools remove the hazard.

BY LAWRENCE MOSIER

Quiet, mild-mannered Malcolm Ross is no whistle-blower. At the U.S. Geological Survey, where tradition and conservative ways run deep, whistles are abhorred, and those who would blow them usually don't. But Ross, a research mineralogist, has been whistling hard about asbestos and why it is not the scourge to schools and offices that some contend it is.

Ross has so far failed to alter the government's determination to finance asbestos removal from schools and gradually remove asbestos products from the nation's shelves. And he has been denounced as a meddler and derided by the public health establishment.

The 54-year-old mineralogist, who has worked for the Geological Survey for 30 years, says he has run *four square* into the politics of cancer and its power to scare. Nevertheless, he has shown that an individual can still rattle the federal machinery enough to cause second thoughts.

This was demonstrated on Sept. 26 at a hearing before the House Energy and Commerce Subcommittee on Commerce, Transportation and Tourism on the school asbestos abatement program. Under intense questioning by subcommittee chairman James J. Florio, D-N.J., John A. Moore, who is assistant administrator of the Environmental Protection Agency (EPA), admitted that the agency could not develop a specific standard to determine when asbestos created a health hazard in schools.

Ross argues that parents, teachers, pupils, building maintenance employees and office workers need not worry so much about a few whiffs of asbestos dust. He agrees that when asbestos is falling out of ceilings or crumbling off the walls, it should be removed. But there is no need to panic, he says.

After all, he argues, the women of Thetford Mines, a town of 20,000 in Canada's Quebec province where asbestos was mined from 1850 until the 1960s, have lived with mountains of asbestos waste heaped behind their homes all their lives, with no undue health effects. The asbestos dust was so thick, Ross said, residents had to wash their car windows every morning before they could drive.

DIFFERENT HAZARDS?

At issue is whether it is practical or even possible to distinguish between the health effects of half a dozen different kinds of asbestos. The U.S. Public Health Service's Centers for Disease Control, the National Institute for Occupational Safety and Health, the Mt. Sinai Environmental Science Laboratory in New York and EPA have declined to make such distinctions.

Ross and a few others, including the Ontario Royal Commission on Matters of Health and Safety Arising from the Use of Asbestos, contend that the available medical evidence supports a distinction between "white" asbestos and the more lethal "blue" and "brown" varieties.

The asbestos mined in Canada is the white or chrysotile type. An estimated 95 per cent of all asbestos products used in the United States are made of chrysotile asbestos. Much of this comes from Canada. Blue asbestos, or crocidolite, comes from South Africa and Australia, and the brown variety, amosite, from South Africa. The incidence of mesothelioma, or cancer of the linings of the lung and abdomen, is much higher for miners of blue and brown asbestos, according to Ross, than for those working only with white asbestos.

"Nonoccupational exposure to [white] asbestos has not been shown by epidemiological studies to be a significant health hazard," Ross stated in a study published

this year by the American Society for Testing Materials. If it were, the women of Thetford Mines, "where over 20 million tons of chrysotile asbestos has been mined, would be dying of asbestos-related diseases. They are not."

Ross cited Canadian health studies showing that people can breathe or drink "significant amounts" of white asbestos safely. These studies, he said, also provide a "threshold value" for white asbestos below which no measurable health effects will occur.

Ross says that much of the earth's surface could be considered dangerous if the government defined the asbestos hazard broadly enough to include exposure to the many fibers contained in a variety of rocks and minerals and then attempted to reduce the people's exposure to zero. "Many cities have lots of white asbestos in their water supplies," he said. "And California, particularly in the north, is laced with the mineral."

"High levels of many kinds of dust will make you sick," Ross said. "You can cause tumors in animals with a wide variety of minerals. If animal studies are your guide, a considerable part of the earth's crust is carcinogenic."

Ross began nailing his views known last February after the Geological Survey's California center began receiving inquiries about asbestos. He has lectured around the country and has held briefings in Washington for White House officials, the National Research Council staff and several other agencies including the General Services Administration and EPA.

BATTLE LINES

When Ross finally reached Capitol Hill, the reaction was vitriolic. Sen. James Abdnor, R-S.D., chairman of the Environment and Public Works Subcommittee on Water Resources and a member of the Appropriations Sub-

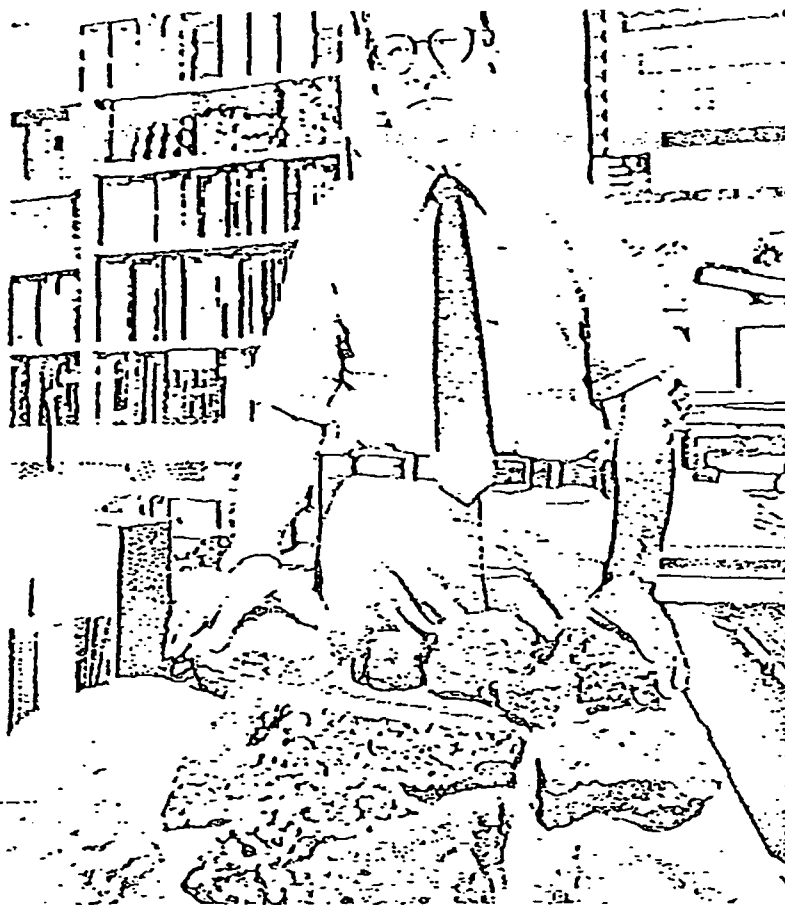
committee on HUD and Independent Agencies, had sponsored a bill to provide \$600 million to states over the next six years to help schools remove "friable" asbestos—that which crumbles when touched. Ross's no-panic message gave the bill's enemies more ammunition.

In late May, the battle lines formed when the House Appropriations Committee report on EPA cited Ross's arguments to criticize the agency's school asbestos program and its proposal to ban three asbestos products and phase out asbestos mining and imports over the next decade. Abdnor's forces then organized a concerted attack against Ross in the form of letters to Sen. Robert T. Stafford, R-Vt., chairman of the Environment and Public Works Committee.

The most damning letter came from assistant surgeon general James O. Mason, director of the Centers for Disease Control. Mason repeated earlier testimony by the center's Dr. Vernon N. Houk that the hazards of white asbestos "have been established as a medical fact and that there is no good basis for debate to the contrary."

The June 18 letter also said that "Dr. Ross's health analysis has been made using many statistical manipulations that are highly inappropriate" and that Ross, in concluding that Italian miners of white asbestos had a lower incidence of mesothelioma and lung cancer, ignored the notion that health problems caused by asbestos exposure could be latent.

The attempt to water down the Abdnor bill by requiring EPA to conduct additional studies failed in conference. EPA was directed to provide an initial \$30 million to schools as a 1984 supplemental appropriation that could be carried over to the next fiscal year. Another \$30 million was allocated for 1985. But the bill said the agency must provide schools



Mineralogist Malcolm Ross says asbestos is not the scourge that some say.

"more practical guidance" in deciding what to do about the presence of asbestos. EPA was "urged to develop detailed standards and procedures for post-removal certification to assure that poorly executed abatement projects do not cause higher asbestos exposures."

The last requirement indicated that Ross had some impact on the legislation. In his Washington briefings, he had cited a May 1984 Canadian Royal Commission study that warned that poor asbestos removal work could increase health risks by exposing workers to higher levels of asbestos. The commission also concluded that much of Ontario's \$26 million asbestos removal effort was needless.

"What happened in recent years with respect to asbestos is that protective actions were taken which did not recognize that a substance that kills in the workplace may pose insignificant risks in the indoor or outdoor environment," the study said. "Throughout Canada and the United States, hundreds of millions of dollars have been spent removing asbestos from buildings. Only a fraction of these removal projects was warranted by the risks posed to building occupants."

Despite this study, EPA is under in-

creasing pressure to set an asbestos exposure standard that schools and other building owners can use to determine when the presence of asbestos creates a health hazard. Last November, the Service Employees International Union petitioned EPA to set a standard and to recommend procedures for remedying the hazards, either by removing the asbestos or sealing it. But EPA's attempt to create formulas proved impractical, said Edward A. Klein, director of EPA's toxic substances assistance office. Earlier this month, the union sued EPA over the issue.

Union president John J. Sweeney told the Florio panel that EPA had "transformed

a very bad situation into an environmental catastrophe" by not providing regulations requiring safe removal of asbestos.

EPA's Moore testified that EPA had made "progress" in getting schools to inspect for the presence of asbestos. The "vast majority" of schools are conducting inspection programs, he said, and 65 percent are not finding "friable materials." Of those that have located such asbestos, "two-thirds have completed or are in the process of completing asbestos abatement projects."

Moore also said EPA is designing standards for contractors who will implement the asbestos abatement program that Congress passed. But Moore said EPA may not ask for the full \$600 million that Congress authorized if schools delay acting on their own to remove asbestos because they want to apply for the federal money later.

Ross appears more bemused than bothered by his sudden notoriety. He dismisses his medical critics by wondering aloud if they actually read his study. As for the meddling charge, he quipped: "I could turn that around, you know. Why are these medical people meddling in a mineral issue?" □

- C O N F I D E N T I A L -

J-M Manufacturing Company, Inc.

Internal Correspondence

To: R. K. Chi

Date: July 6, 1983

From: L. D. Rish

LDR

Copies:

Subject: ASBESTOS FIBER CONTRACT
RUBBER RINGS CONTRACT

1983

Fiber: Agreement states an \$800 per Canadian ton. (This should be view as Manville's opening bid; Manville views it as price.)

Rubber Rings: Price as set forth in Exhibit A to agreement. Manville must give a price at least as favorable as that given to their other customers.

1984 thru 1987

Fiber: During the negotiation period of each year, if we receive an offer:

1. for asbestos fiber
2. of Canadian origin
3. of the same grade, quality and point value
4. at a lesser price than Manville.

Then we must notify Manville and if they fail to match our price within 15 days, we are free "....to purchase such quantity of asbestos fiber" at the lowest price subject to our duty of giving notice to Manville of evidence of purchase. Prices are firm for the year.

Rubber Rings: During negotiation period, if J-M receives an offer to purchase rubber rings, of like grade and quality, at a lesser price, it will notify Manville. If Manville is unable to meet the lower price, we are free to buy the quantity quoted by the third party at the lower price, with notice of the sales documents sent to Manville.

(Please note: that the Fiber Contract purports to be governed by the Law of Quebec, for which I am seeking legal opinion on.)

LDR/mdm

JMM 00000166

JN HG STC

EAST CHEN MTL

DEC. 5, 1934

ATTE: MR. PAUL HUANG

RE: OFFERING WHITE ASBESTOS FIBER FOR 1935

FRANK: LAG LAKE ASBESTOS
PRICE: DELIVERED TO STOCKTON OF DENISON
IN U.S. FUND
PER TITPIC TON

473 625.22 549.75
570 720.36 637.13

OTHER TERMS AND CONDITIONS IN 1934 PLANNET SHEET WILL
REMAIN UNCHANGED FOR 1935.

WE LOOK FORWARD TO HEARING YOUR REPLY

RECAPTS
TY CHIN
EASTERN CHEN TRADING CO.

JN HG STC

EAST CHEN MTL

$$\begin{array}{r} 548 \text{ 1/4} \\ 5117 \text{ 1/4} \\ 512 \text{ 1/4} \\ \hline 568 \text{ 1/4} = 560 \text{ 1/4} \end{array}$$

JM HE STO
*
JM HE STO
ATTN: PAUL HUNAG
JM A/C PIPE COOP.

12 643U
12 / 6 / 24

SUBJECT: QUOTATION FOR MINERALS MARKETING CORP.
OF ZIMBABWE CO'S 5 ASBESTOS

FOL IS OUR QUOTATION FOR SUPPLYING C" C S ASEBESTOS
FOR DENISON LOCATION.

PRICE: US\$49.22/METRIC TON FOB NINE.
PRICE IS SUBJECT TO CHANGE WITHOUT NOTICE.

TERMS: NET 30 DAYS.

FREIGHT: US\$ 117.62/MT FOB DELIVERY TO DENISON, TX
EXCLUDES CARGO INSURANCE, CUSTOMS ENTRY, LOCAL DUTIES
AND TAXES, ETC. FRT WILL BE QUOTED BY SPECIAL SHIPPING
AND FILLED BY THEM.

PACKAGING: 52 KGS. PET POLYMER BAG; FFLSUPE PACKET
AND PALLETIZED. SHPT IN 12' CONT.
METHOD: X; COST US\$ 12.00/MT - 4 - WAY 48" X 36" PALLET

16 PALLETS/CONT; 2 LAYERS OF PALLETS; COARSE
WEAFFED - 17.5 MT/CONT.

METHOD 2: COST US\$ 7.28/KT - 2 WAY PALLET 48"X96"
3 PALLETS, 6 SLIP SHEETS (1 LAYER OF PALLETS
1 LAYER OF SLIP SHEETS), COSTS WRAFFLER 17.75
MT BIF 12' CONT.

METHOD 3: EITHER METHOD 1 OR 2 ABOVE EXCLUDING CDSIL
WPAF - DEDUCT USFLF 2.20/MT FR PACKAGING COST.

SCHEDULING: SAILING EVERY 4 - 6 WEEKS, REQUEST ABOUT 60 DAYS LEAD TIME.

PLS ADVISE OF TRIAL CONT. RESULTS.

WE LOOK FORWARD TO RECEIVING YOUR CREDIT, PLS
ADVISE IF YOU HAVE ANY QUESTIONS.

FIRST BOARDING
F. TRETTIN
FRANCOISE LTD.

4- 22- 270

JMM 00000168



JM Asbestos Sales Inc.

2000, rue Peel
Bureau 750
Montréal (Québec)
H3A 2W5
Télex 055-62277
(514) 288-5917

November 26, 1984

Mr. Paul Huang
J-M MANUFACTURING COMPANY, INC.
1051 Sperry Road
Stockton, California
95206

Dear Paul,

This is in response to your letter to D. Poutiatine dated
Nov. 16, 1984 which was received here on Nov. 23, 1984.

On the attached sheet you will find the appropriate prices
for 4T and 5R asbestos fibre grades as requested to your
Stockton, Calif., and Denison, Texas locations. The blue
asbestos is not handled by JM Asbestos so no prices are
shown for those grades.

We trust that our submitted prices are to your satisfaction.

Yours very truly,

G. Hughes
Director of Sales, U.S. & Canada

GH/cf

(Encl.)

*Return the fiber if USA government banned. If
business without any charge is O.K.*

Asbestos Fibre Requirements 1985 Stockton and Denison.

25 November 1984

Tamol

4T30, S4T30, SP4T30.

Stockton, Calif., and Denison, Texas.

Up to 2,000 metric tonnes.

614.39 U.S./M.T.

F 557.52/ST

2,000 - 6,000 metric tonnes.

606.76 U.S./M.T.

F 550.40/ST

6,000 - 10,000 metric tonnes.

599.12 U.S./M.T.

F 543.67/ST

5R28, S5R28, SP5R28.

Up to 2,000 metric tonnes.

446.46 U.S./M.T.

F 377.91/ST

All of the above prices are F.O.B. Stockton, Calif., and Denison, Texas. At least 50% of the tonnage purchased from JM Asbestos Sales Inc. must go to Denison, Texas. Pallet model 350, if required at Stockton, will be loaned to JM Mfg., and should be returned free on the assigned cars which will be used at Stockton. Terms are 1% 10 days, net 30 days.

Min. 75 point Value

JM Asbestos Sales Inc.

FACTURE
IN 'CE

FACTURE/INVOICE NO. 10-10-00001-0-10		NO COMM. DU CLIENT/CUST. ORDER NO. JDM11/SEL 2 J		MANDATARIO POUR/ATTORNEY IN FACT FOR ASBESTOS		F.A.B./F.O.B. 0474 P		DATE FACTURE/INVOICE DATE 85-03-17	
ST	CLIENT J.M. CUSTOMER 447-883-018	REC	CA. VENTES 1/SALES CR. 1 44 8144-06-50	CA. VENTES 2/SALES CR. 2 A199-05-50	CA. VENTES 3/SALES CR. 3	CA. VENTES 4/SALES CR. 4	EXPÉDIE DE/SHIPPED FROM ASBESTOS	DATE EXP./DATE SHIP PED. 85-02-06	

MODALITES - ESCOMPTÉ, SI APPLICABLE, SUR VALEUR NETTE DU MATÉRIEL / TERMS - CASH DISCOUNT IF EARNED APPLIES ON NET MATERIAL VALUE.
NET 30 DAYS

17 ASBESTOS EASTERN CAN-AM

VENDEU A/SOLD TO
J-M A/C PIPE CORP
1051 SPERRY ROAD
STOCKTON, CA 95206

FAIRE REMISE A/REMIT TO ADDRESS
JM ASBESTOS SALES INC.
P.O. BOX 66512, O'HARE AIRPORT
CHICAGO, ILLINOIS 60666

EXPÉDIER A "MÊME" SAUF SI INDIQUE AUTREMENT / SHIP TO "SAME" UNLESS OTHERWISE INDICATED BELOW

J-M MANUFACTURING CO
Hwy 75 N.
DEMISON, TEXAS 75020

CANADIAN FUNDS PRICE
PAYABLE IN U.S. FUNDS

QUANTITE COMM. ONNES ORDERED	GRADE	DESCRIPTION	REMARKS NO. BAGS SHIP	TONNES BRUT GROSS WEIGHT	TONNES NET NET WEIGHT	TAUX DE CONVERSION	MONTANT / AMOUNT
20.00	SP4T3C	ASBESTOS FIBRE	400	20.00	686.23	13724.60	9927.00
		GROSS WEIGHT 94200 LB.				19724.60 S	
		KLO GR 20049 NET 20000					
		APP FRONT - TRNSPT	MMMMMMMM			2486.00	1798.10
		TOTAL IN U.S. FUNDS				2486.00 S	11726.10 T
		CONVERTED AT .7233					
		13-0689908					
		SEAL 800908					

JMM 00000171



JM Asbestos Sales Inc.

FACTURE
INVOICE

FACTURE/INVOICE NO. G-88-00582-0-50	NO COMM. DU CLIENT/CUST. ORDER NO. JDD0117-88L 2-3	MANDATAIRE POUR/ATTORNEY IN FACT FOR	F.A.S./F.O.B. ASBESTOS	NO. DML/PLI 0975	P.C.	DATE FACTURE/INVOICE DATE 85-03-07
CLIENT / N. CUSTOMER 4 447-283-1-13	REC 46	CR. VENTES 1/SALES CR. 1 A199-06-50	CR. VENTES 2/SALES CR. 2 A199-05-80	CR. VENTES 3/SALES CR. 3	CR. VENTES 4/SALES CR. 4	EXPEDIE DE/SHIPPED FROM ASBESTOS
ALITES - ESCOMPTE, SI APPLICABLE, SUR VALEUR NETTE DU MATERIEL / TERMS - CASH DISCOUNT IF EARNED APPLIES ON NET MATERIAL VALUE.						DATE EXP./DATE SHIPPED 85-03-06

ET 30 DAYS

17 ASBESTOS EASTERN CAN-AM

VENDU A/BOLE TO J-M A/C PIPE CORP 1051 SPERRY ROAD STOCKTON, CA 95206	FAIRE REMISE A/REMIT TO ADDRESS JM ASBESTOS SALES INC. P.O. BOX 86512, AMF O'HARE AIRPORT CHICAGO, ILLINOIS 60666
EXPEDIER A "MEME" SAUF SI INDIQUE AUTREMENT / SHIP TO "SAME" UNLESS OTHERWISE INDICATED BELOW J-M MANUFACTURING CO HWY 75 N. DUNCAN, TEXAS 75021	CANADIAN FUNDS PRICE PAYABLE IN U.S. FUNDS

UNITS ORDERED	GRADE	DESCRIPTION	NET WT. NO. BAGS SHIP	TONNES NET	TONNES SHIP	FAIR PRICE/TONNE	NET AMOUNT
20.00	SP4T3P	ASBESTOS FIBRE	400	20.00	686.23	13725.60	9927.00
		GROSS WEIGHT 44200 LB.				13725.60 \$	
		NET WT 20000					
		PPD FREIGHT - XXXXXX XXXXXXXXXX			XXXXXXX	2406.08	1798.18
		TOTAL IN U.S. FUNDS				2406.08 \$	11725.18
		* CONVERTED AT .7233					
		13-0889890					
		NO. 2 287500					
		55AL 803994					

JMMA 00000172

FACTURE
INV. CE

PAIEMENTS - ESCompte, si applicable, sur valeur nette du matériel / TERMS - CASH DISCOUNT, IF EARNED APPLIES ON NET MATERIAL VALUE.

467 30 0.444

17 ASBESTOS EASTERN CAN-AM

YENDU A/SOLD TO

J-M A/C PIPE CORP
1051 SPEERY ROAD
STOCKTON, CA 95206

EXPEDIER A MEME SAUF SI INDIQUE AUTREMENT / SHIP TO : SAME UNLESS OTHERWISE INDICATED BELOW

J-4 MANUFACTURING CO

1422 75 19.

DALLAS, TEXAS 75020

FAIRE REMISE A/REMIT TO ADDRESS

JM ASBESTOS SALES INC.
P.O. BOX 66512, AMF O'HARE AIRPORT
CHICAGO, ILLINOIS 60666

CANADIAN FUNDS PRICE

PAYABLE IN U.S. FUNDS

QUANT. COMM. INVT. ORDERED	GRADE	DESCRIPTION	PORT. TONS NO. EAST SHIP	TONNES FOR CARRIER FWD	TONNES FOR FWD TONNAGE	NET WEIGHT TONS	NET WEIGHT TONS
20.00	SP4730	ASBESTOS FIBRE	400	20.00	686.28	13724.60	13724.60 S
		GROSS WEIGHT 44200 LB.					9927.00
		XLG GR 20049 NET 20000					
		PPD MMMM - TRNSPT MMMMM					
		*TOTAL IN U.S. FUNDS				2486.08	1798.18
		* CONVERTED AT .7233				2486.08 S	11728.16 T
		13-0849600					
007	012121	0.00 40 3485					

JMM 00000173

JM Asbestos Sales Inc.

FACTURE
INVOICE

FACTURE/INVOICE NO. 10-BA-00004-0-00		NO COMM. DU CLIENT/CUST. ORDER NO. J0031/REL 2 3		MANDATAIRE POUR/ATTORNEY IN FACT FOR ASBESTOS		F.A.B./F.O.B. ASBESTOS		NO. DU FICHE R 1018		P.C. H		DATE FACTURE/INVOICE DATE 83-03-11	
ST	CLIENT J M CUSTOMER	ACC	CR. VENTES 1/SALES CR. 1	CR. VENTES 2/SALES CR. 2	CR. VENTES 3/SALES CR. 3	CR. VENTES 4/SALES CR. 4	EXPÉDIE DE/SHIPPED FROM ASBESTOS			DATE EXP./DATE SHIPPED 83-03-08			

QUALITÉS - ESCOMPTE, SI APPLICABLE, SUR VALEUR NETTE DU MATÉRIEL / TERMS - CASH DISCOUNT IF EARNED APPLIES ON NET MATERIAL VALUE.
NET 30 DAYS

PL7 ASBESTOS EASTERN CAN-AM

VENDU À/SOLD TO J-M A/C PIPE CORP 1091 SPERRY ROAD STOCKTON, CA 95206 EXPÉDIER À "SAME" SAUF SI INDIQUE AUTREMENT / SHIP TO "SAME" UNLESS OTHERWISE INDICATED BELOW J-M MANUFACTURING CO HWY 75 N. DALLAS, TEXAS 75035		FAIRE REMISE À/REMIT TO ADDRESS JM ASBESTOS SALES INC. P.O. BOX 66612, AMF O'HARE AIRPORT CHICAGO, ILLINOIS 60666 CANADIAN FUNDS PRICE PAYABLE IN U.S. FUNDS	
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TONNES FORM TONNES ORDERED	GRADE	DESCRIPTION	NO. DE NO. BAGS SHIP	TONNES TONNES SHIP	PAIEMENT PAYMENT	MONTRANT AMOUNT
20.00	SP450	ASBESTOS FIBRE GROSS WEIGHT 44200 LB. PLU GR 20049 NET 20000 PPD NNNNN - TRNSPT NNNNNNNNN TOTAL IN U.S. FUNDS * CONVERTED AT .7233 13-0889690 TOTAL 803996	400	20.00	686.29 13724.60 2406.08 2488.08 S	9927.00 1798.10 11725.10 T

JMM 00000174

JM Asbestos Sales Inc.

FACTURE
INV CE

FACTURE/INVOICE NO. 01-1-101-1-1-1		NO COMM. DU CLIENT/CUST. ORDER NO. J1031/REL 210		MANDATAIRE POUR/ATTORNEY IN FACT FOR		P.A.B./P.O.B. ASBESTOS		NO OR/PLI 1034		P.C. P		DATE FACTURE/INVOICE DATE 85-03-12	
ST	CLIENT / M. CUSTOMER 9 447-PH3-018	REC	CR. VENTES 1/SALES CR. 1 40 A194-00-50	CR. VENTES 2/SALES CR. 2 A199-05-50	CR. VENTES 3/SALES CR. 3	CR. VENTES 4/SALES CR. 4	EXPÉDIE DE/SHIPPED FROM ASBESTOS			DATE EXP./DATE SHIPPED 85-03-11			

DAIITES - ESCOMPTE, SI APPLICABLE, SUR VALEUR NETTE DU MATÉRIEL / TERMS - CASH DISCOUNT IF EARNED APPLIES ON NET MATERIAL VALUE
15 DAYS

17 ASBESTOS EASTERN CAN-AM

VENDU À/OLD TO J-M A/C PIPE CORP 1001 SPERRY ROAD STOCKTON, CA 95210 EXPÉDIER À/SHIP TO/ SI INDICÉ AUTREMENT / SHIP TO - SAME UNLESS OTHERWISE INDICATED BELOW J-M MANUFACTURING CO HWY 75 N. DENISON, TEXAS 75020		FAIRE REMISE À/REMIT TO ADDRESS JM ASBESTOS SALES INC. P.O. BOX 66912, AMF O'HARE AIRPORT CHICAGO, ILLINOIS 60666 CANADIAN FUNDS PRICE PAYABLE IN U.S. FUNDS	
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TONNES COM. TONNES ORDERED	GRADE	DESCRIPTION	REAL SAC NO. BAGS	TONNES COM. TONNES ORDERED	REAL SAC NO. BAGS	TONNES COM. TONNES ORDERED	REAL SAC NO. BAGS	TONNES COM. TONNES ORDERED	REAL SAC NO. BAGS	MONTEANT/AMOUNT
20.00	SPAT3	ASBESTOS FIBRE	400	20.00	693.25	13862.00				
		GROSS WEIGHT 44200 LB.				13862.00				9942.59
		NET WT 20040 NET 20000								
		PPU MMMM - TRNSPT MMMMMMMM				2485.86				
		*TOTAL IN U.S. FUNDS				2485.86				1782.61
		* CONVERTED AT .7171								11729.20 T
		12-000000								
		TOTAL 11729								

JMM 00000175

JM Asbestos Sales Inc.

FACTURE
INVOICE

NO FACTURE/INVOICE NO. 10-1-100000-0-00		NO COMM. DU CLIENT/CUST. ORDER NO. J0001/REL 2 5		MANDATAIRE POUR/ATTORNEY IN FACT FOR		F.A.B./F.O.B. ASBESTOS		NO DDL/FILE # 1040 P		DATE FACTURE/INVOICE DATE 89-03-17	
EST	CLIENT J M CUSTOMER	REC	CR. VENTES 1/SALES CR. 1	CR. VENTES 2/SALES CR. 1	CR. VENTES 3/SALES CR. 3	CR. VENTES 4/SALES CR. 4	EXPÉDIE DE/SHIPPED FROM ASBESTOS		DATE EXP./DATE SHIPPED 89-03-11		

MODALITÉS - ESCOMPTE, SI APPLICABLE, SUR VALEUR NETTE DU MATÉRIEL / TERMS - CASH DISCOUNT IF EARNED APPLIES ON NET MATERIAL VALUE.
NET 30 DAYS

P1/ ASBESTOS EASTERN CAN-AM

VENDEU A/SOLD TO J-M A/C PIPE CORP 1001 SPERRY ROAD STOCKTON, CA 95210		FAIRE REMISE A/REMIT TO ADDRESS JM ASBESTOS SALES INC. P.O. BOX 66512, AMF O'HARE AIRPORT CHICAGO, ILLINOIS 60666	
EXPÉDIER A "MÊME" SAUF SI INDIQUE AUTREMENT / SHIP TO "SAME" UNLESS OTHERWISE INDICATED BELOW J-M MANUFACTURING CO PMY 75 N. DENVER, TEXAS 75002		CANADIAN FUNDS PRICE PAYABLE IN U.S. FUNDS	

TONNES COMM. TONNES ORDERED	GRADE	DESCRIPTION	NBRE SACS EST. NO. BAGS SHIP.	TONNES EXP. TONNES SHIP.	IS PROVISIONAL	IS CONVERTED TO U.S. FUNDS	MONTANT/AMOUNT
20.00	SP4140	ASBESTOS FIBRE	100	20.00	693.25	13868.00 13868.00 S	4942.59
		GROSS WEIGHT 44200 LB.					
		XLS CR 20049 NET 20000					
		PPH MMMM - TRNSPT MMMMMMMM		MMMMMMMM		2405.86 2485.86 S	1782.61 11725.80 T
		TOTAL IN U.S. FUNDS					
		* CONVERTED AT .7121					
		13-086969					
		ATP, 11/1/10					
		SEAL 801997					

JMM 00000176



JM Asbestos Sales Inc.

FACTURE
INVOICE

FACTURE/INVOICE NO. P-BA-7-2-00		NO COMM. DU CLIENT/CUST. ORDER NO. J0041/84L 2 3		MANDATAIRE POUR/ATTORNEY IN FACT FOR ASBESTOS		T.A.B./T.D.B. 1000 P		DATE FACTURE/INVOICE DATE 85-03-14	
CLIENT / M. CUSTOMER 46 467-683-013	REC 46	CA. VENTES 1/SALES CR. 1 4190-06-50	CA. VENTES 2/SALES CR. 2 4199-05-50	CA. VENTES 3/SALES CR. 3	CA. VENTES 4/SALES CR. 4	EXPÉDIE DE/SHIPPED FROM ASBESTOS		DATE EXP./DATE SHIPPED 85-03-14	

VALIDES - ESCOMPTE, SI APPLICABLE, SUR VALEUR NETTE DU MATÉRIEL / TERMS - CASH DISCOUNT IF EARNED APPLIES ON NET MATERIAL VALUE.

NET 30 DAYS

17 ASBESTOS EASTERN CAN-AM

VENDU A/SOLD TO J-M A/C PIPE CORP 1051 SPERRY ROAD SINGAPORE, CA 95206 EXPÉDIER À "MÊME" SAUF SI INDICÉ AUTREMENT / SHIP TO - "SAME" UNLESS OTHERWISE INDICATED BELOW J-M MANUFACTURING CO HWY 75 N. DENISON, TEXAS 75021		PAIRE REMISE A/REMIT TO ADDRESS JM ASBESTOS SALES INC. P.O. BOX 66512, AMP O'HARE AIRPORT CHICAGO, ILLINOIS 60666 CANADIAN FUNDS PRICE PAYABLE IN U.S. FUNDS	
--	--	---	--

TONNES COMM. / TONNES ORDERED	GRADE	DESCRIPTION	UNIT	TONNES / TONNES ORDERED	UNIT PRICE	AMOUNT	AMOUNT
20.00	SP4T3C	ASBESTOS FIBRE	400	20.00	693.25	13865.00	
		GROSS WEIGHT 44200 LB.				13865.00 \$	9942.59
		KLG GR 22049 NET 20000					
		PPU 60000 - TRNSPT 600000000				2485.86	
		STUFAL IN U.S. FUNDS				2485.86 \$	1782.61
		* CONVERTED AT .7171					11725.20
		13-0089600					
		130.00 12000 50AL 600203					

JMM 00000177



JM Asbestos Sales Inc.

FACTURE
INVOICE

FACTURE/INVOICE NO. 10-1A-0000-C-00		NO COMM. DU CLIENT/CUST. ORDER NO. 00031/RESL 2		MANDATAIRE POUR/ATTORNEY IN FACT FOR ASBESTOS		NO POL/FILE # 1049 P		DATE FACTURE/INVOICE DATE 85-03-14	
CLIENT / M. CUSTOMER 49 447-883-018	REC 46	CR. VENTES 1/SALES CR. 1 A199-06-50	CR. VENTES 2/SALES CR. 2 A194-05-50	CR. VENTES 3/SALES CR. 3	CR. VENTES 4/SALES CR. 4	EXPÉDIE DE/SHIPPED FROM ASBESTOS		DATE EXP./DATE SHIPPED 85-03-13	

MODALITÉS - ESCOMPTE, SI APPLICABLE, SUR VALEUR NETTE DU MATÉRIEL / TERMS - CASH DISCOUNT IF EARNED APPLIES ON NET MATERIAL VALUE

NET 30 DAYS

17 ASBESTOS EASTERN CAN-AM

VENDU A/SOLD TO J-M A/L PIPE CORP 1051 SPERRY ROAD STOCKTON, CA 95206 EXPÉDIER À / WARE SAUF SI INDICÉ AUTREMENT / SHIP TO - "SAME" UNLESS OTHERWISE INDICATED BELOW J-M MANUFACTURING CO BOX 75 N. DRYDEN, TEXAS 79022		FAIRE REMISE A/REMIT TO ADDRESS JM ASBESTOS SALES INC. P.O. BOX 66512, AME O'HARE AIRPORT CHICAGO, ILLINOIS 60666 CANADIAN FUNDS PRICE PAYABLE IN U.S. FUNDS	
--	--	---	--

TONNES COM. TONNES ORDERED	GRADE	DESCRIPTION	NO. BAGS SHIP.	TONNES EXP. TONNES SHIP.	PAIEMENT / PAY TO THE ORDER OF	DATE / DATE	TONNES / TONNES	MONTANT / AMOUNT
20.00	SP4T30	ASBESTOS FINE	400	20.00	693.25		13865.00 13865.00 S	9942.59
		GROSS WEIGHT 44200 LB. NET 20049 NET 20000 WPD ##### - TRNSPT ##### TOTAL IN U.S. FUNDS CONVERTED AT .7171 13-0889690					2485.86 2485.86 S	1782.61 11725.20
VFA	274445	SEAL 800204						

JMM 00000178



JM Asbestos Sales Inc.

FACTURE
INVOICE

FACTURE/INVOICE NO. JM 85-03-15	NO COMM. DU CLIENT/CUST. ORDER NO. J0011/KPL 275	MANDATAIRE POUR/ATTORNEY IN FACT FOR ASBESTOS	P.A.B./P.O.B. ASBESTOS	NO DE/P.N.S. 1170	P.C. P	DATE FACTURE/INVOICE DATE 85-03-15
CLIENT J.M. CUSTOMER 9 447-883-010	REC 46	CR. VENTES 1/SALES CR. 1 A199-06-50	CR. VENTES 2/SALES CR. 2 A199-03-50	CR. VENTES 3/SALES CR. 3	CR. VENTES 4/SALES CR. 4	EXPÉDIE DE/SHIPPED FROM ASBESTOS
DATE EXP./DATE SHIPPED 85-03-15						

ALITÉS - ESCOMPTE, SI APPLICABLE, SUR VALEUR NETTE DU MATÉRIEL / TERMS - CASH DISCOUNT IF EARNED APPLIES ON NET MATERIAL VALUE.
ET 15 DAYS

17 ASBESTOS EASTERN CAN-AM

VENDEU A/SOLD TO
J-M A/C PIPE CORP
1651 SPERRY ROAD
STOCKTON, CA 95206

EXPÉDIER A "MÊME" SAUF SI INDIQUE AUTREMENT / SHIP TO - "SAME" UNLESS OTHERWISE INDICATED BELOW

J-M MANUFACTURING CO
HWY 75 N.
DENISON, TEXAS 75020

FAIRE REMISE A/REMIT TO ADDRESS
JM ASBESTOS SALES INC.
P.O. BOX 66512, AMF D'HARE AIRPORT
CHICAGO, ILLINOIS 60666

CANADIAN FUNDS PRICE
PAYABLE IN U.S. FUNDS

QUANT. COMM. UNITS ORDERED	GRADE	DESCRIPTION	MARK. LBS. LBS. SHQ. BAGS SHIP	TONNAGE NET WEIGHT	UNIT PRICE UNIT PRICE	TOTAL TOTAL	DATE DATE	AMOUNT AMOUNT
20.00	594T00	ASBESTOS FIBRE	400	20.00	692.25	13865.00		
		GROSS WEIGHT 44200 LB.				13865.00	5	9942.59
		KLG GR 20049 NET 20000						
		PPD ***** - TRNSPT *****				2485.86		
		TOTAL IN U.S. FUNDS				2485.86	5	1782.61
		* CONVERTED AT .7171						11720.20
		13-0689690						
	200377	SEAL 800200						

JMM 00000179



JM Asbestos Sales Inc.

FACTURE
IN CE

O FACTURE/INVOICE NO. 10-FA-00500-0-00		NO COMM. DU CLIENT/CUST. ORDER NO. 20031/8-1 203		MANDATAIRE POUR/ATTORNEY IN FACT FOR		F.A.E./F.O.B. ASBESTOS		NO. BBL/PAL # 1121		P.C. P		DATE FACTURE/INVOICE DATE 05-03-15	
EST 49	CLIENT J M CUSTOMER 447-080-018	REC 40	CA VENTES 1/SALES CR. 1 A199-06-00	CA VENTES 2/SALES CR. 2 A199-08-00	CA VENTES 3/SALES CR. 3	CA VENTES 4/SALES CR. 4	EXPÉDIE DE/SHIPPED FROM ASBESTOS			DATE EXP./DATE SHIPPED 05-03-15			

MODALITES - ESCOMPTE, SI APPLICABLE, SUR VALEUR NETTE DU MATERIEL / TERMS - CASH DISCOUNT IF EARNED APPLIES ON NET MATERIAL VALUE.
NET 20 DAYS

PL7 ASBESTOS EASTERN CAN-AM

VENDEU A/SOLD TO

J-M P/C PIPE CORP
1004 SPERRY ROAD
STOCKTON, CA 95206

FAIRE REMISE A/REMIT TO ADDRESS

JM ASBESTOS SALES INC.
P.O. BOX 60512, AMF O'HARE AIRPORT
CHICAGO, ILLINOIS 60660

EXPEDIER A "MEME" SAUF SI INDIQUE AUTREMENT / SHIP TO "SAME" UNLESS OTHERWISE INDICATED BELOW

J-M MANUFACTURING CO
HWY 70 N.
DENTON, TEXAS 76209

CANADIAN FUNDS PRICE

PAYABLE IN U.S. FUNDS

TONNES ORDERED	GRADE	DESCRIPTION	NO. BAGS SHIP	TONNES EXP. TONNES SHIP	PAIX/TONNE	PAIX/TONNE	NO. A. MONTANT/AMOUNT
20.00	3P4730	ASBESTOS FIBRE	400	20.00	693.75	13875.00 13865.00 S	* 9952.59
		GROSS WEIGHT 44200 LB. ALG GP 28049 NET 20000 PPD MMMMM - TRNSPT MMMMMMMM			MMMMMMMM	2485.86 2485.86 S	* 1782.61
		TOTAL IN U.S. FUNDS * CONVERTED AT .7171 13-0889670					11725.20
ATN 207390		54AL 000207					

JMM 00000180

FACTURE
INVOICE

QUALITÉS • ESCompte, si applicable, sur valeur nette du matériel / TERMS • CASH DISCOUNT IF EARNED APPLIES ON NET MATERIAL VALUE.

41: 30 MAY 3

4-17 AGENTUS EASTERN CON-AM

~~VENDEU A/SOLD TO~~

J-M A/C PILOT COMP
1051 SPERRY ROAD
STOCKTON, CA 95204

EXPEDIER A "MEME" SAUF SI INDIQUE AUTREMENT / RHIP TO "SAME" UNLESS OTHERWISE INDICATED BELOW

J-S MANUFACTURING CO

May 25 Mon

DE ELSON, TEXAS 75024.

FAIR REMISE A/REMIT TO ADDRESS

JM ASBESTOS SALES INC.
P.O. BOX 66512, AMF O'HARE AIRPORT
CHICAGO, ILLINOIS 60666

CANADIAN FUNDS PRICE

PAYABLE IN U.S. FUNDS

JMM 00000181

J-M Manufacturing Company, Inc.

Memo

DATE 3-27-85

TO:	Paul Huang	DEPT.	
FROM:	D. W. Wilkinson	DEPT.	
SUBJECT:	4 GRADE Ceisotile FIBBESTOS FIBRE		
FIRST QUARTER - 1985 4T3			
LAKE - PURCHASED AND USED			
26694 BAGS			
1413.2 SHORT TONS			
SECOND QUARTER - 1985 SP4T-30			
J-M. Asbestos. - ORDERED and			
IN-TRANSIT - PLUS 396 TON			
IN warehouse.			
28800 BAGS			
1584.0 SHORT TONS			

JM-0001

JMM 00000182

Telex Western Union
Telex Western Union
Telex Western Union

UN HQ STO
ATTN: PAUL HUANG
ON A/C PIPE COFF.

11174
11/27/64

SUBJECT: BLUE ASBESTOS - JAN. SHIPMENT REQUESTS.

HAVE REQ'D FOR RELEASES FOR JAN. SHIPMENT:

DEMISON - 4 CONTS. WPL-6 AND 2 CONTS. WMS-6, FEL. 6341
STOCKTON - 6 CONTS WPL-6 AND 10 CONTS. WMS-6, FEL. 12

WE MUST BOOK CARGO TODAY FOR SHIPMENT ON E.P. FRIDGE V6
ETS AFRICA JAN. 19, ETA HOUSTON FEB. 21 TO OBTAIN
SPACE ON ECARD. E.P. FRIDGE V6 ONLY VESSEL DEPARTING
AFRICA IN JAN.

AM APPLYING RELEASES AGAINST 1984 OFFERS AS PLANTS
REQUESTED, PLS CONFIRM. TO EFFECT BOOKING PLS ADVISE
IRREVOCABLE STANLEY L/C NUMBER SOONEST.

BEST REGARDS
FRANKGATE LTD.
P. TETTIN.

UN HQ STO

*Call Pete on 12/28/64 to provide
Blanket p.o. no. #JDM1, JS01
Stanley L/C # will follow next week
Paul 12/28/64*

JMM 00000184

Telex Western Union Telex Western Union Telex Western Union

RECEIVED MAR 8 1985

Don: form rate is too slow
STK: reject rate is too high

Paul

JM HQ STC

ASBESTOS THTM

TO: JOHNS-MANVILLE CORPORATION
STOCKTON, CALIFORNIA

MARCH 6, 1985

03-277

ATTN: MR. PAUL HUANG - PURCHASING MANAGER

RE: 1985 - 2,000 MT N-479-4T CONTRACT

WOULD APPRECIATE VERY MUCH RECEIVING BY RETURN DELIVERY SCHEDULE FOR
ABOVE-MENTIONED CONTRACT.

WOULD APPRECIATE YOUR KEEPING IN MIND OUR INTEREST IN SHIPPING SOME
QUANTITIES IN MARCH.

KINDEST REGARDS,
GILLES DUMAS
ASBESTOS THTM
UUUU



J-M Manufacturing Company, Inc.

1051 Sperry Road • Stockton, California 95206 • Tel (209) 982-1500 • Telex 359491 • Telecopier (209) 485-8184

Asbestos Corp. Ltd.
P.O. Box 519
Thetford-Mines, Quebec
Canada, G6G 5T6
ATTN: CLAUDE LIMOGES

Nov. 16, 1984

Dear Claude,

Below you will find a list of raw materials, additives, and/or operating supplies and our forecasted 1985 requirements.

Please submit your quotation to us for these products by Nov. 28, 1984.

<u>DESCRIPTION</u>	<u>1985 FORECAST</u>
White Asbestos Fiber 4T	12,600 ST
White Asbestos Fiber 5R	2,000 ST
Blue Asbestos Fiber WMS-6	5,000 ST
Blue Asbestos Fiber WML-6	1,600 ST

Looking forward to your expediant response.

Sincerely,

Paul Huang
Purchasing Manager

PH/lh

JMM 00000185

Purchase Order

ATTN: GILES DUMAS (418) 338-2481

AS RELEASED	Show This No. On Invoice, B 1 and Each Package. ↓
1/4/85	SEE BELOW

STOCKTON, CA. (JS022)

HQ Accounting-Stockton, CA.

SEE BELOW

PLANT DEST. CHARGE ALLOWED COLLECT

☐ ☒ ☐ ☒ ☐

N30.

Taxable _____ %
Tax Exempt ☒

Item	Quantity	Unit	Description	Unit Price	Extension
			Blanket order for record & billing Purposes only to cover our partial requirement of material shown below for the period of 1/1/85 to 12/31/85.		
			ASBESTOS FIBER N-479-4T approx. 1,000ST for ea. plant	DENISON, TX \$515.00/ST	STOCKTON, CA. \$515.00/ST
			If EPA or any government agencies ban A/C pipe in the USA. All Lake Fiber in J-M warehouse may be returned for credit & freight will be negotiated by both parties. Material to be supplied will be shipped via Piggyback (T.O.F.C.) on slip-sheets & shrink-wrapped unit for Denison, TX. and via rail-car, packed 1,200 bags per car with shrink-wrapped unit, bottom unit on lip sheets, second unit on pallet for Stockton, CA. Upon receiving Blanket Order, supplier to send confirmed order back is required.		

JMM 00000186

JMM 00000186

1. Please furnish, subject to the conditions appearing on reverse side of this order.
2. Material sold at the delivered prices or freight allowed must be shipped prepaid. No parcel post or insurance charges allowed except as provided above.
3. Mail invoice in duplicate & B/L on date of shipment.

By Paul Huang

PURCHASING AGENT

1051 SPERRY ROAD
STOCKTON, CA 95206

BLANKET ORDER

Acquisition Dept. PRODUCTION		Date Prepared 1/4/85	Date Required AS RELEASED	Requisitioned By J. RAMSEY	Project No. (wfo No.) P.R. No. H Blanket Order 8155	P.O. No. (Release No.) SEE BELOW
Suggested Vendor				Remarks: (Justification, Package, etc.) BILL TO HQ ACCOUNTING, STOCKTON, CA.		Deliver to: DENISON, TX (JDO22) STOCKTON, CA. (JS022)
Est. Date of Order	Date Ordered	Schedule Delivery	FOB: ☐ PLANT ☐ DEST ☐ CHARGE ☐ ALLOWED ☐ COLLECT			Est. Freight
Ordered From: ASBESTOS CORPORATION LIMITED P.O. Box 519 Thetford Mines Quebec, Canada G6G 5T6 (516) 336-2181			Ship Via SEE BELOW	Terms N30	B.O. No.	
			Confirm to: GLILES GILES DUMAS			Charge Code
			Taxable ☐	☒ Tax Exempt		Account No.

Description			Item	Qty	Unit	Complete Description	Unit Price	Extension
C	E	A						
						Blanket Order for record & billing purposes only to cover our partial requirement of material material shown below for the period of 1/1/85 to 12/31/85.		
						ASBESTOS FIBER N-479-4T DENISON		STOCKTON
						APPROX. 1,000ST \$515.00/ST for ea. plant.		\$515.00/ST
						If EPA or any government agencies ban A/C pipe in the USA, All Lake fiber in J-M warehouse may be returned for credit & freight be negotiated by both parties. Material to be supplied will be shipped via Piggyback (T.O.P.C.) on slipsheets & shrink wrapped unit for Denison, TX. and via railcar, packed 1,200 bags per car with shrink-wrapped unit, bottom unit on slipsheets, second unit on pallet for Stockton, CA. Upon receiving Blanket Order, supply to send confirmed order back is required.		
							Total	

Date Received	APPROVAL	President	V.P.	Manager	Section Head
Partial or Complete					
Received By					

JMM 00000187

(Purchasing fill out Shaded areas)

Ed Chen 4/10/82

Paul Huang *Paul*
Purchasing Department

PURCHASING

J-M A/C PIPE CORP.1251 SPERRY ROAD
STOCKTON, CA 95206**Purchase Order****Vendor (Name & Address)****BRIDGEGATE LTD.**
P.O. Box 14095
West Allis, WI. 53214
ATTN: D. WARKHAM

Show This No. On Invoice.	
AS RELEASED	B/L and Each Package
12/14/84	SEE BELOW

DENISON (JD001) STOCKTON (JS001)	Q EQ ACCOUNTING	PLANT ☐ DEST. ☒ CHARGE ☐ ALLOWED ☒ COLLECT ☐	Taxable
	BEST WAY	N60.	Tax Exempt ☒

Item	Quantity	Unit	Description	Unit Price	Extension
THIS IS A BLANKET ORDER FOR RECORD & BILLING PURPOSES ONLY TO COVER OUR PARTIAL REQUIREMENT OF MATERIAL SHOWN BELOW FOR THE PERIOD OF 1/1/85 to 12/31/85.					
1.	Grade WML-6 Asbestos Fiber	DENISON	RICHMOND/STOCKTON		
		\$724.50MT	\$747.50MT		
2.	Grade WMS-6 Asbestos Fiber	\$657.50MT	\$680.50MT		
BOTH ARE PACKED IN 50 ob. BAGS, PRESS BALED & PALLETIZED					
Material to be supplied shall be in compliance with J-M spec. Price(s) shown shall be firm for 30 days and J-M will receive a minimum of 30 days written notice of any increase.					
AUTHORIZED SUPPLIER CONTACT: Peter Trettin (414) 383-2020					
AUTHORIZED J-M CONTACT: DENISON, HAROLD STONE (214) 465-6390 STOCKTON, D.W. WILKINSON (209) 982-1500					
JMM 00000188					

1. Please furnish, subject to the conditions appearing on reverse side of this order.
2. Material sold at the delivered prices or freight allowed must be shipped prepaid. No parcel post or insurance charges allowed except as provided above.
3. Mail Invoice in duplicate & B/L on date of shipment.

By Paul Huang

PURCHASING AGENT

1551 SPERRY ROAD
STOCKTON, CA 95208

Purchase Order

Vendor (Name & Address)

BRAKEGATE LTD.
P.O. BOX 14095
WEST ALLIS, WI. 53214
ATTN: D. WARRENHAM
(414) 383-2020

CHANGE# ORDER

3/19/85	Show This No. On Invoice, B & L and Each Pageings. ↓
AS RELEASED	SEE BELOW

DEN, TX. (JD001)	HQ ACCOUNTING, STOCKTON, CA	PLANT	DEST.	PPD CHARGE	PPD ALLOWED	COLLECT	Taxable _____ %
		☐	☐	☐	☐	☐	Tax Exempt ☐
STK, CA. (JS001)							

Item	Quantity	Unit	Description	Unit Price	Extension
Effective 3/1/85, these BLANKET ORDERS will be revised as follows:					
			<u>WEL, TX</u>	+	<u>RICHMOND/STE</u>
1.			WML-6 Asbestos Fiber	was \$724.50/MT	\$747.50/MT
				now \$683.50/MT	\$683.50/MT
2.			WMS-6 Asbestos Fiber	was \$657.50/MT	\$680.50/MT
				now \$627.00/MT	\$627.00/MT
THE RESTO,TERMA, PACKAGING, ETC. REMAIN THE SAME.					

JMM 00000189

JMM 00000189

1. Please furnish, subject to the conditions appearing on reverse side of this order.
2. Material sold at the delivered prices or freight allowed must be shipped prepaid. No parcel post or insurance charges allowed except as provided above.
3. Mail invoice in duplicate & B/L on date of shipment.

By

Paul Huang

PURCHASING AGENT

J-M A/C PIPE CORP.
Purchase Requisition

 1051 SPERRY ROAD
 STOCKTON, CA 95208

 P.R. No. **H 8153** P.O. No. (Release No.)
SEE BELOW

Requisition Dept.	Date Prepared	Date Required	Requisitioned By	Project No. (w/o No.)	Change No.
PRODUCTION	12/14/84	AS RELEASED	J. RAMSEY		

Suggested Vendor	Remarks: (Justification, Package, etc.)	Deliver to:
	BILL TO STOCKTON, CA.	DEN (JD001) STK (JS001)

Est. No. (if any)	Date Ordered	Schedule Delivery	FOB	TERMS	EST. FREIGHT
			☒ FREE	☒ NET 30	☐ COLLECT
Order No.	Order Date	Order Qty.	Order Unit	Order Price	Order Total
Charge Code			Account No.		

C	D	A	Item	Qty.	Unit	Complete Description	Unit Price	Extension
						THIS IS A BLANKET ORDER FOR RECORD & BILLING PURPOSES ONLY		
						TO COVER OUR PARTIAL REQUIREMENT OF MATERIAL SHOWN BELOW		
						FOR THE PERIOD OF 1/1/85 to 12/31/85		
						1. Grade WML-6 Asbestos Fiber	DENISON	STOCKTON
							\$724.50/MT	12/14/84
						2. Grade WMS-6 Asbestos Fiber	\$657.50/MT	12/14/84
						BOTH ARE PACKED IN 50 lb. BAGS, PRESS BALLED & PALLETIZED		
						MATERIAL TO BE SUPPLIED SHALL BE IN COMPLIANCE WITH J-M SPECIFICATION		
						PRICE(S) SHOWN SHALL BE FIRM FOR 30 DAYS AND J-M WILL REQUIRE A MINIMUM		
						OF 30 DAYS WRITTEN NOTICE OF ANY INCREASE.		
						AUTHORIZED SUPPLIER CONTACT: PETER TRETIN (414) 383-2826		
						AUTHORIZED J-M CONTACT: HAROLD STONE (214) 465-6390		
						D.W. WILKINSON (209) 982-1500	Total	

Date Received	President	V.P.	Manager	Section Head
Partial or Complete				
Received By				

(Purchasing fill out Shaded Areas) 12/18/84

 Paul Huang *Paul Huang*
 Purchasing Department

PURCHASING

Telex Western Union Telex Western Union Telex Western Union

RECEIVED MAR 3 1985

JM HQ STO
ATTN: P. HUANG
JM MANUFACTURING CO., INC.

385-U
3/8/85

RE: BLUE FIBER PRICES

EFFECTIVE MARCH 1, 1985 (SAILING OF M/V VICTORY V27)
PRICES OF BLUE FIBER WILL BE:

GRADE	FOR MINE FREIGHT PREPAID AND ALLOWED TO:
	DENISON, TX RICHMOND, CA RAMP
WMS-6 USCLP	627.00/MT 627.00/MT
WML-6	683.50/MT 683.50/MT

PRICES: ARE PER METRIC TON (2,205 LBS.) FOR MINE FREIGHT
PREPAID AND ALLOWED. INSURANCE, CUSTOMS ENTRY, LOCAL
DUTIES, TAXES, ETC. ARE FOR BUYER'S ACCOUNT. PRICES ARE
SUBJECT TO CHANGE WITHOUT NOTICE.

TERMS: SIXTY (60) DAYS FROM INVOICE DATE, BACKED BY STANDBY
IRREVOCABLE LETTER OF CREDIT CONFIRMED BY A U.S. BANK OR
CASH IN ADVANCE OF SAILING DATE. PAYMENT TO - BRAKEGATE LTD.
C/O MARINE BANK, N.A., INT'L DEPT., INT'L TELLER, 11
E. WIS-
CONSIN AVE., MILWAUKEE, WI 53202.

INSURANCE: CARGO WILL BE COVERED BY CARGO INSURANCE UNDER
GROUP POLICY AND WILL BE ADDED TO INVOICE AT COST. PRESENT
CHARGE APPROX USDLR 23.00/CONT EFFECTIVE WITH THE VICTORY
V27 SAILING YR REL NOS. 401 (DENISON), 3 (STOCKTON).

PACKAGING: 50 KILCS/PLASTIC BAG, BALED AND BANNED, 1800 KGS.
PER PALLET, 17.4 MT /20' CONT.

REGARDS
P. HEERING
BRAKEGATE LTD.

JM HQ STO
.....

JMM 00000191

1051 SPERRY ROAD
STOCKTON, CA 95206

P.R. No. H 8191	P.O. No. (Release No.) SEE BELOW
---------------------------	--

Acquisition Dept.	Date Prepared	Date Required	Requisitioned By	Project No. (w/o No.)	Change No.
PRODUCTION	3/19/85	AS RELEASED	J. RAMSEY		
Suggested Vendor			Remarks: (Justification, Package, etc.)	Deliver to: DEN (JD001) STK (JS001)	

Est. Date of Order	Date Ordered	Schedule Delivery	FOB EXACT DEST CHARGE YPD ALLOWED COLLECT ☐ ☐ ☐ ☐ ☐					Est. Freight
Ordered From BRAKEGATE LTD P.O. BOX 14095 WEST ALLIS, WI 53214 (414) 381-2620			Ship Via		Terms		B.O. No.	
			Confirm to: D. WAREHAM					Charge Code
			Taxable _____ %		☒ Tax Exempt		Account No.	

Receiving			Item	Qty.	Unit	Complete Description	Unit Price	Extension	
C	B	A							
						Effective 3/1/85, these BLANKET ORDERS			
						will be revised as follows:			
						DEN, TX		RICHMOND/STK	
						1. WML-6 Asbestos Fiber was \$724.50/MT		\$747.50/MT	
						now \$683.50/MT		\$683.50/MT	
						2. WMS-6 Asbestos Fiber was \$657.50/MT		\$680.50/MT	
						now \$627.00/MT		\$627.00/MT	
						The rest terms, packaging, etc. remain			
						the same.			
							Total		
			Date Received	APPROVAL	President	V.P.	Manager	Section Head	
			Partial or Complete						
			Received By						

JMM 00000192

(Purchasing fill out Shaded areas)

#	DATE	TO	FROM	PAGE
2115	6-26	Hagel Stone	Buss	1-1

Paul Huang *Paul*
Purchasing Department

PURCHASING

Company, Inc.
HIGHWAY 75 N
DENISON, TEXAS 75020

Purchase Requisition RECEIVED: FEB 2 1985

Requestion Dept.		Date Prepared 10/8/84	Date Required DEC, 1984	Requisitioned By H. Stone	P.O. No. (Release No.) K-6534
Suggested Vendor P. Oeding: Pls pay first. We'll issue a claim against this		Remarks: (Justification, Package, etc.) Invoice # 383		Deliver to: DENISON	
Est. Date of Order	Date Ordered	Schedule Delivery	FOB PLANT ☐ DEST. ☐ PPD CHARGE ☐ PPD ALLOWED ☒ COLLECT ☐	Est. Freight Paul	
Ordered From BRAKEGATE, LTD			Ship Via CONTAINERS	Terms	B.O. No.
			Confirm to:	Charge Code	
N14-383-2020			Taxable _____ % ☐ Tax Exempt	Account No.	

Receiving			Item	Qty.	Unit	Complete Description	Unit Price	Extension
C	B	A						
			12 Cent	12	CENT	BLUE HSBESTGE FIBER WMS6 (4196 BAGS)	Plus 348 Bags of wet fibre.	
			6 Cent	6	CENT	WML6 (2088 Bags)	WMS6 3480 bags	
MAXU	203262-8					SAMU-210999-5	SAMU-209740-4 Wet	
SAMU	212046-4					SAMU-206888-0	MAXU-201495-9	
MAXU	201099-5					MAXU-203880-0	MAXU-20275-0	
MAXU	200824-1					SAMU-206183-9		
SAMU	208645-7					SAMU-212180-9		
MAXU	205057-6					FOR DEC, 1984 DELV		
MAXU	200936-1					MAXU-205311-1		
SAMU	207173-4					SAMU-211886-8		
							TOTAL	

2/13	Date Received	APPROVAL	President	V.P.	Manager	Section Head
C	Partial or Complete		Paul Can you handle please! 674-2575			
EA	Received By					

(Purchasing fill out Shaded areas)
be ie: You may want to ask Paul Huang + Harold Stone
about the wet fibre, whether to pay or not!
on WML-6 billing is for 2089 Bags, we only got 2088,

WHITE COPY (Purchasing) YELLOW COPY (Originator) PINK COPY (Receiving/Accounting)

JMM 00000193

J-M Manufacturing Co., Inc.

Internal Correspondence

B. OEDING/GINO WEY

To: T.E. LOHMAN-DEN

R.D. ANDREWS-STK

From: PAUL HUANG



Date: Oct. 15, 1984

Copies: W. WANG, E. CHEN, J. CHEN, FILE

Subject: BLUE FIBER FROM BREAKGATE

After negotiating with Breakgate concerning the above mentioned items, and due to the continuing strength of the U.S. dollar, please be advised that the prices will be revised as follows for all shipments made on or after 10/12/84.

	<u>DENISON</u>		<u>STOCKTON</u>	
	<u>NEW</u>	<u>OLD</u>	<u>NEW</u>	<u>OLD</u>
WML-6	US\$724.50/MT 91.0%	US\$795./MT	US\$747.50/MT 91.2%	US\$818./MT
WMS-6	US\$657.50/MT 75.2%	US\$692./MT	US\$680.50/MT 75.1%	US\$715./MT

The rest of the terms, freight status, etc. remains unchanged.

PH/lh

BRAKEGATE LIMITED

6 Broad Street Place, London EC2M 7ND England

RECEIVED NOV 2 1984

R.S.A.: P.O. Box 784521, Sandton 2146
Transvaal, South Africa
Tel (27-11) 788-4313 - Tlx: 4-27188 SA

U.S.A.: P.O. Box 14095
West Allis, Wisconsin 53214
414/363-2020

October 17, 1984

Mr. Paul Huang
J-M A/C PIPE CORPORATION
P. O. Box 1587
Stockton, CA 95201

Paul 11/2

Subject: Blue Fiber Prices

Dear Paul:

Effective November 1, 1984, the prices of blue asbestos fiber will be as follows:

Grade	F.O.B. Mine Freight Prepaid and Allowed to:	
	Denison Plant	Richmond/Stockton
WMS-6	US\$ 657.50/mton	US\$ 680.50/mton
WML-6	US\$ 724.50/mton	US\$ 747.50/mton

Prices: Prices are per metric ton (2,204 lbs.) F.O.B. mine freight prepaid and allowed. Insurance, customs entry, local duties, taxes, etc. are for buyer's account. Prices are subject to change without notice.

Terms: Sixty (60) days from date of invoice, backed by a standby irrevocable letter of credit confirmed by a U.S. bank or cash in advance. Payment to Brakegate Limited, c/o Marine Bank, N.A., Int'l Dept., Int'l Teller, 111 E. Wisconsin Avenue, Milwaukee, WI 53202.

Packaging: 50 kilos/plastic bag, baled and banded, 18 kgs. per pallet, 17.4 metric tons per 20' container.

Thank you for your consideration.

Very truly yours,

BRAKEGATE LIMITED

Bernard Heering
Bernard Heering

cc: D. Wilkinson

JMM 00000195

Director: Bernard Heering

1551 SPERRY ROAD
STOCKTON, CA 95212

Purchase Order

Vendor (Name & Address)

J M Asbestos Inc.
2000 Peel St.
Bureau 750
Montral (Quebec), Canada H3A 2W5
ATTN: GERRY HUGHES (514) 288-5917

BLANKET ORDER

AS RELEASED	Show This No. On Invoice, Bill and Each Package. ↓
1/4/85	SEE BELOW

DENILSON, TX. (JD023)	HQ Accounting-Stockton, CA.	PLANT ☐ DEST. ☒ CHARGE ☐ ALLOWED ☒ COLLECT ☐	Taxable ____ %
STOCKTON, CA. (JS023)	SEE BELOW	H30	Tax Exempt ☒

Item	Quantity	Unit	Description	Unit Price	Extension
			Blanket Order for record & billing purposes only to cover our partial requirement of material shown below for the period of 1/1/85 to 12/31/85.		
			ASBESTOS FIBER SP-4T-30 approx. 1,500ST	\$568./MT	for DEN.
			SP-5R-28 approx. 1,000ST	\$387./MT	for DEN.
			SP-4T-30 approx. 1,500ST	\$568./MT	for STK.
			If EPA of any government agencies ban A/C pipe in the USA. All Lake fiber in J-M warehouse may be returned for credit & freight will be negotiated by both parties. Material to be supplied will be shipped via Piggyback (T.O.F.C.) on slipsheets & shrink-wrapped unit for Denison, TX. and via rail-car, packed 1,200 bags per car with shrink-wrapped unit, bottom unit on slipsheets, second unit of pallet for Stockton, CA. Upon receiving Blanket Order, supplier to send confirmed order back is required.		

JMM 00000196

1. Please furnish, subject to the conditions appearing on reverse side of this order.
2. Material sold at the delivered prices or freight allowed must be shipped prepaid. No parcel post or insurance charges allowed except as provided above.
3. Mail invoice in duplicate & 8/L on date of shipment.

By

Paul Burns

PURCHASING AGENT

1551 SPERRY ROAD
STOCKTON, CA 95208

BLANKET ORDER

JM Asbestos Inc.
2000, rue Peel
Bureau 750
Montreal, Quebec
H3A 2W5

As Released	Show This To On Invoice, B-L and Each Pageage. ↓
3-30-85	16023

STOCK J-M Manufacturing co., Inc.
1051 Sperry Rd.
Stockton, Ca. 95206

PLANT	DEST.	PPD CHARGE	PPD ALLOWED	COLLECT	Taxable _____ %
☐	☐	☐	☐	☐	
TAX EXEMPT					Tax Exempt ☒

Item	Quantity	Unit	Description	Unit Price	Extension
			Add the following item on the existing blanket order.		
			Asbestos fiber SP-5R-28	\$395./MT	
			The rest, terms, etc., of the blanket order remain unchanged.		

JMM 00000197

JMM 00000197

1. Please furnish, subject to the conditions appearing on reverse side of this order.
2. Material sold at the delivered prices or freight allowed must be shipped prepaid. No parcel post or insurance charges allowed except as provided above.
3. Mail invoice in duplicate & B/L on date of shipment.

By Paul Huang

PURCHASING AGENT

1051 SPERRY ROAD
STOCKTON, CA 95208

BLANKET ORDER[illegible]

(Purchasing fill out Shaded areas)

Paul Huang *Paul Huang*
Purchasing Department

PURCHASING

Telex Western Union
Telex Western Union
Telex Western Union

JM HQ STO

EAST CHEN MTL

FEBRUARY 28, 1985

ATTN: MR PAUL HUANG

RE: ASBESTOS FIBER GRADE 5R3

LAKE ASBESTOS (LAQ) OFFERING USD385.00 PER METRIC TON
DELIVERED TO DENISON, TEXAS

KINDLY CONSIDER RELEASING YOUR VALUABLE ORDER TO US

RGDS TY CHEN
EASTERN CHEN TRADING CO. LTD.

JM HQ STO

0

EAST CHEN MTL

JMM 00000199

J-M A/C PIPE CORP.

Purchase Requisition

BLANKET ORDER

1051 SPERRY ROAD
STOCKTON, CA 95206

Division Dept. PRODUCTION			Date Prepared 1/4/85	Date Required AS RELEASED	Requisitioned By J. RAMSEY	P.R. No. H 8154	P.O. No. (Release No.) SEE BELOW
Suggested Vendor			Remarks: (Justification, Package, etc.)			Deliver to:	
			BILL TO HQ ACCOUNTING, STOCKTON, CA.			DEN, TX (JD023) STK, CA (JS023)	
Est. Date of Order	Date Ordered	Schedule Delivery	FOB	TERMS	CHARGE	ALLOWED	COLLECT
			☒	☒	☐	☒	☐
Ship Via			Terms		Est. Freight		
SEE BELOW			N30				
Ship To			Charge Code		Account No.		
ERRY HUGHES							
Taxable			Tax Exempt				
☐			☒				
Blanket Order	Date Ordered	Schedule Delivery	Complete Description				Unit Price
			Blanket Order for record & billing purpose				
			only to cover our partial requirement of				
			material shown below for the period of				
			1/1/85 to 12/31/85.				
			ASBESTOS FIBER S0-4T-30 approx. 1,500ST				
			S0-5R-28 approx. 1,000ST				
			SP-4T-30 approx. 1,500ST				
			If EPA of any government agencies ban A/C pipe in the USA, the				
			Lake Fiber in J-M warehouse may be returned for credit. Terms				
			will be negotiated by both parties. Material to be supplied by J-M				
			be shipped via Piggyback (T.O.P.C.) on slipsheets & shrink wrapped				
			unit for Denison, TX. and via railcar, packed 1,200				
			with shrink-wrapped unit, bottom unit on slipsheets. Second unit on				
			pallet for Stockton, CA. Upon receiving Blanket Order, J-M will				
			to send confirmed order back is required.				
			Total				
			Date Received		President	V.P.	Manager
			Partial or Complete				Section Head
			Received By				

(Purchasing fill out Ship Via)

JMM 00000200

Paul Huang
Purchasing Department

PURCHASING



JM Asbestos Inc.

2000, rue Peel
Bureau 750
Montréal (Québec)
H3A 2W5
Télex 055-62277
(514) 288-5917

RECEIVED JUL 6 1984

June 27, 1984.

file
Paul 4/4

Mr. Paul Huang,
Manager, Materials Management,
Presidents Office,
J-M Manufacturing Company, Inc.
J-M A/C Pipe Corporation,
1051 Sperry Rd.,
Stockton, CA 95206
U.S.A.

Dear Paul:

It was a pleasure for me to meet you and to have had the opportunity of getting acquainted with William and Wilfred, as well as seeing Ernie again. Thanking you for making available the time and for the luncheon.

In order to clarify past misunderstandings, I am pleased to confirm again that JM Asbestos Inc. is a totally independent Canadian company, purchased in 1983 from Manville Corporation by a small group of senior management people - all residents of Canada. We have acquired all the shares, the property and the know-how of the Jeffrey Mine - which mines and mills asbestos fibre - and of an adjacent manufacturing plant which, among others, produces and markets rubber rings.

At the time of our purchase of the Jeffrey Mine (JM), we were automatically assigned and we accepted all the contractual obligations previously held by Johns-Manville Amiante Canada. Naturally, we never doubted that a similar understanding existed with the other parties to these contracts. Thus, we consider theoretically that there exists an agreement between our two companies regarding your purchases of asbestos fibre.

... / 2

JMM 00000201

Mr. Paul Huang,
Manager, Materials Management,
J-M Manufacturing Company, Inc.
J-M A/C Pipe Corporation

June 27, 1984.

Page 2

However, let me repeat to you once again that this agreement should be understood merely as a basis of our future, long-time association. It will protect you in case of a fibre shortage (for whatever reason - natural disasters, labor problems, etc.) and it affords us the opportunity of selling you our fibre under reasonable competitive conditions.

We wish to be your major supplier of asbestos, we will not hide behind any legal papers, and we will provide you the best service and the best quality that we can produce and on which we have built our reputation. There is no substitute for a satisfied customer, and we look forward to working with you as we would with any important asbestos user.

In closing, let me repeat again our cordial invitation for any of you to visit our mine at any time at your early convenience.

With best wishes.

Sincerely,



D. Poutiatine,
Executive Vice President - Sales.

DP/lg

cc: Mr. William Wong
Mr. Wilfred Wang
Mr. Ernest H. Pronske



JMM 00000202

FIBER SUPPLY CONTRACT

This Agreement is entered into this 30th day of December, 1982 by and between Johns-Manville Amiante Canada, Inc. ("JMAC") and J-M A/C Pipe Corporation ("Purchaser").

In consideration of the mutual covenants to be kept and performed hereunder the parties agree as follows:

1. For the five-year period commencing January 1, 1983 and ending December 31, 1987 JMAC will sell to Purchaser and Purchaser will buy from Seller ^{No less than 75%} ~~100%~~ of its annual requirements by grade of chrysotile asbestos fiber subject to the terms and conditions herein contained.

2. For the calendar year 1983, the purchase price for all such grades of fiber shall be \$800.00 per ton and according to J-M's standard terms. Payment shall be Net thirty (30) days from the date of delivery. The parties shall negotiate and agree on the price and terms for the succeeding calendar year during each November during the life of the Agreement.

3. If for any succeeding ¹⁹⁸⁵ calendar year during the term of this Agreement, Purchaser shall receive during the ^{JM} negotiation period an offer for asbestos fiber of Canadian origin of the same grade and quality and point value but at a lesser price, Purchaser may request, in writing, JMAC to either meet such price or release an equivalent tonnage from the purchase requirements of this Agreement. In the event that JMAC fails to meet said lesser price within fifteen (15) days after receipt of the request, Purchaser

shall be free to purchase such quantity of asbestos fiber at the lower price subject only to the condition that upon JMASC's request, Purchaser shall provide JMASC with written documentation evidencing that the purchase was completed at the same or better price and terms as contained in the request to JMASC.

The provisions of this Paragraph 3 shall apply only during the annual negotiations hereunder. Once the parties have agreed upon the price, discount and terms of payment for the next year, such obligations shall be firm for that entire year.

4. All asbestos fiber sold to Purchaser shall be delivered f.o.b. rail, Asbestos, Quebec, Canada, according to JMASC's standard terms and conditions in effect at the time of shipment. Payment will be in Canadian dollars and any amounts not paid when due shall earn interest at the rate of 2% per month, without prejudice to any other remedies available to JMASC. All deliveries of asbestos fiber to Purchaser shall be in accordance with a mutually agreed upon schedule.

5. Neither party shall be liable to the other party for any delay or default in the performance under this agreement occasioned by armed conflict or economic dislocation resulting therefrom; embargoes; strikes, shortages of labor, materials, or transportation; labor difficulties; civil disorders of any kind; action of civil or military authorities; fires; floods; earthquakes; volcanic action; or any other cause of any kind or extent whether similar or dissimilar to any of the foregoing beyond the reasonable control of the party alleged to be in default or to have been delayed.

6. In the event JMAC foresees that it will be unable to supply Purchaser's requirements for any calendar year covered by this agreement occasioned by a cessation of production for any reason, JMAC will notify Purchaser no later than July 1 of the preceding year; whereupon, this agreement shall terminate without further liability to either party except for obligations which have accrued to the date of such termination.

7. This Agreement represents the entire understanding between JMAC and Purchaser, and shall not be modified except in writing signed by both parties. Purchaser shall not assign this Agreement without the written consent of JMAC. This Agreement shall be governed by and construed in accordance with the laws of the Province of Quebec, Canada.

IN WITNESS WHEREOF the parties have executed this Agreement the date first written above.

JOHNS-MANVILLE AMIANTE CANADA INC. J-M A/C PIPE CORPORATION

By: *J. Power*
Title: President

By: *Charles H. McQuillan*
Title: VICE PRESIDENT

12-07-82



JM Asbestos Inc.

2000, rue Peel
Bureau 750
Montréal (Québec)
H3A 2W5
Télex 055-62277
(514) 288-5917

RECEIVED JUL 6 1984

file
Paul

June 27, 1984.

Mr. Paul Huang,
Manager, Materials Management,
Presidents Office,
J-M Manufacturing Company, Inc.
J-M A/C Pipe Corporation,
1051 Sperry Rd.,
Stockton, CA 95206
U.S.A.

Dear Paul:

It was a pleasure for me to meet you and to have had the opportunity of getting acquainted with William and Wilfred, as well as seeing Ernie again. Thanking you for making available the time and for the luncheon.

In order to clarify past misunderstandings, I am pleased to confirm again that JM Asbestos Inc. is a totally independent Canadian company, purchased in 1983 from Manville Corporation by a small group of senior management people - all residents of Canada. We have acquired all the shares, the property and the know-how of the Jeffrey Mine - which mines and mills asbestos fibre - and of an adjacent manufacturing plant which, among others, produces and markets rubber rings.

At the time of our purchase of the Jeffrey Mine (JM), we were automatically assigned and we accepted all the contractual obligations previously held by Johns-Manville Amiante Canada. Naturally, we never doubted that a similar understanding existed with the other parties to these contracts. Thus, we consider theoretically that there exists an agreement between our two companies regarding your purchases of asbestos fibre.

... / 2

JMM 00000206

Mr. Paul Huang,
Manager, Materials Management,
J-M Manufacturing Company, Inc.
J-M A/C Pipe Corporation

June 27, 1984.

Page 2

However, let me repeat to you once again that this agreement should be understood merely as a basis of our future, long-time association. It will protect you in case of a fibre shortage (for whatever reason - natural disasters, labor problems, etc.) and it affords us the opportunity of selling you our fibre under reasonable competitive conditions.

We wish to be your major supplier of asbestos, we will not hide behind any legal papers, and we will provide you the best service and the best quality that we can produce and on which we have built our reputation. There is no substitute for a satisfied customer, and we look forward to working with you as we would with any important asbestos user.

In closing, let me repeat again our cordial invitation for any of you to visit our mine at any time at your early convenience.

With best wishes.

Sincerely,



D. Poutiatine,
Executive Vice President - Sales.

DP/19

cc: Mr. William Wong
Mr. Wilfred Wang
Mr. Ernest H. Pronske



JMM 00000207

FIBER SUPPLY CONTRACT

This Agreement is entered into this 30th day of December, 1982 by and between Johns-Manville Amiante Canada, Inc. ("JMAC") and J-M A/C Pipe Corporation ("Purchaser").

In consideration of the mutual covenants to be kept and performed hereunder the parties agree as follows:

1. For the five-year period commencing January 1, 1983 and ending December 31, 1987 JMAC will sell to Purchaser and Purchaser will buy from Seller ^{no less than 75%} ~~100%~~ of its annual requirements by grade of chrysotile asbestos fiber subject to the terms and conditions herein contained.

2. For the calendar year 1983, the purchase price for all such grades of fiber shall be \$800.00 per ton and according to J-M's standard terms. Payment shall be Net thirty (30) days from the date of delivery. The parties shall negotiate and agree on the price and terms for the succeeding calendar year during each November during the life of the Agreement.

3. If for any succeeding calendar year during the term of this Agreement, Purchaser shall receive during the negotiation period an offer for asbestos fiber of Canadian origin of the same grade and quality and point value but at a lesser price, Purchaser may request, in writing, JMAC to either meet such price or release an equivalent tonnage from the purchase requirements of this Agreement. In the event that JMAC fails to meet said lesser price within fifteen (15) days after receipt of the request, Purchaser

shall be free to purchase such quantity of asbestos fiber at the lower price subject only to the condition that upon JMSC's request, Purchaser shall provide JMSC with written documentation evidencing that the purchase was completed at the same or better price and terms as contained in the request to JMSC.

The provisions of this Paragraph 3 shall apply only during the annual negotiations hereunder. Once the parties have agreed upon the price, discount and terms of payment for the next year, such obligations shall be firm for that entire year.

4. All asbestos fiber sold to Purchaser shall be delivered f.o.b. rail, Asbestos, Quebec, Canada, according to JMAC's standard terms and conditions in effect at the time of shipment. Payment will be in Canadian dollars and any amounts not paid when due shall earn interest at the rate of 2% per month, without prejudice to any other remedies available to JMAC. All deliveries of asbestos fiber to Purchaser shall be in accordance with a mutually agreed upon schedule.

5. Neither party shall be liable to the other party for any delay or default in the performance under this agreement occasioned by armed conflict or economic dislocation resulting therefrom; embargoes; strikes, shortages of labor, materials, or transportation; labor difficulties; civil disorders of any kind; action of civil or military authorities; fires; floods; earthquakes; volcanic action; or any other cause of any kind or extent whether similar or dissimilar to any of the foregoing beyond the reasonable control of the party alleged to be in default or to have been delayed.

6. In the event JMAC foresees that it will be unable to supply Purchaser's requirements for any calendar year covered by this agreement occasioned by a cessation of production for any reason, JMAC will notify Purchaser no later than July 1 of the preceding year; whereupon, this agreement shall terminate without further liability to either party except for obligations which have accrued to the date of such termination.

7. This Agreement represents the entire understanding between JMAC and Purchaser, and shall not be modified except in writing signed by both parties. Purchaser shall not assign this Agreement without the written consent of JMAC. This Agreement shall be governed by and construed in accordance with the laws of the Province of Quebec, Canada.

IN WITNESS WHEREOF the parties have executed this Agreement the date first written above.

JOHNS-MANVILLE AMIANTE CANADA INC.

J-M A/C PIPE CORPORATION

By: J. Power
Title: President

By: Charles H. McQuillan
Title: VICE PRESIDENT

12-07-82



J-M Manufacturing Company, Inc.

1051 Sperry Road • Stockton, California 95206 • Tel (209) 982-1500 • Telex 359491 • Telecopier (209) 465-8184

October, 14, 1985

JM Asbestos Inc.
Suite 750
2000 Peel Street
Montreal, Quebec
H3A2W5
Attn: Mr. Gerry Hughes

Dear Mr. Hughes,

J-M Manufacturing is attempting to compile an improved, more accurate, specification outline for the Chrysotile white grade No. 4 & 5 asbestos fiber.

This will enable us to simplify our work efforts and minimize any future problems, which can arise, between the Purchasing Department and the vendor.

We have enclosed a copy of our "Draft Specification" on the grade no. 4 fiber.

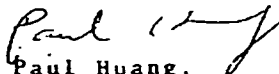
Please review and upon completion, would you give us your detailed comments concerning the following;

- a. Draft Specification of grade no. 4
- b. Your standard production data of grade no. 4 & 5

We appreciate this universal effort and request your response, to us, by October 31, 1985.

Thank you for your time and we look forward to hearing from you very soon.

Sincerely,


Paul Huang,
Purchasing Manager

PH/js

JMM 00000211



J-M Manufacturing Company, Inc.

1051 Sperry Road • Stockton, California 95206 • Tel (209) 982-1500 • Telex 359491 • Telecopier (209) 465-8184

October, 14, 1985

Calaveras Asbestos Ltd.
P.O. Box 127
Copperopolis, Ca. 95228
Attn: Mr. Gordon Coats

Dear Mr. Coats,

J-M Manufacturing is attempting to compile an improved, more accurate, specification outline for the Chrysotile white grade No. 4 & 5 asbestos fiber.

This will enable us to simplify our work efforts and minimize any future problems, which can arise, between the Purchasing Department and the vendor.

We have enclosed a copy of our "Draft Specification" on the grade no. 4 fiber.

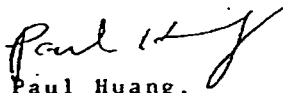
Please review and upon completion, would you give us your detailed comments concerning the following;

- a. Draft Specification of grade no. 4
- b. Your standard production data of grade no. 4 & 5

We appreciate this universal effort and request your response, to us, by October 31, 1985.

Thank you for your time and we look forward to hearing from you very soon.

Sincerely,


Paul Huang,
Purchasing Manager

PH/js

JMM 00000212



J-M Manufacturing Company, Inc.

1051 Sperry Road, Stockton, California 95206
Tel: (209) 982-1500 • Telex: 359491 • Telecopier: (209) 465-8184

October, 14, 1985

Asbestos Corp. Ltd.
P.O. Box 519
Thetford-Mines, Quebec
Canada, G6G 5T6
Attn: Claude Limoges

Dear Mr. Limoges,

J-M Manufacturing is attempting to compile an improved, more accurate, specification outline for the Chrysotile white grade No. 4 & 5 asbestos fiber.

This will enable us to simplify our work efforts and minimize any future problems, which can arise, between the Purchasing Department and the vendor.

We have enclosed a copy of our "Draft Specification" on the grade no. 4 fiber.

Please review and upon completion, would you give us your detailed comments concerning the following:

- a. Draft Specification of grade no. 4
- b. Your standard production data of grade no. 4 & 5

We appreciate this universal effort and request your response, to us, by October 31, 1985.

Thank you for your time and we look forward to hearing from you very soon.

Sincerely,


Paul Huang,
Purchasing Manager

PH/js

JMM 00000213



J-M Manufacturing Company, Inc.

1051 Sperry Road, Stockton, California 95206
Tel: (209) 982-1500 • Telex: 359491 • Telecopier: (209) 465-8184

October, 14, 1985

Brakegate Limited
P.O. Box 14095
West Allis, WI 53214
Attn: Richard C. Wareham

Dear Mr. Wareham,

J-M Manufacturing is attempting to compile an improved, more accurate, specification outline for the Chrysotile white grade No. 4 & 5 asbestos fiber.

This will enable us to simplify our work efforts and minimize any future problems, which can arise, between the Purchasing Department and the vendor.

We have enclosed a copy of our "Draft Specification" on the grade no. 4 fiber.

Please review and upon completion, would you give us your detailed comments concerning the following;

- a. Draft Specification of grade no. 4
- b. Your standard production data of grade no. 4 & 5

We appreciate this universal effort and request your response, to us, by October 31, 1985.

Thank you for your time and we look forward to hearing from you very soon.

Sincerely,


Paul Huang,
Purchasing Manager

PH/jjs

JMM 00000214



J-M Manufacturing Company, Inc.

1051 Sperry Road • Stockton, California 95206 • Tel: (209) 982-1500 • Telex: 359491 • Telecopier: (209) 465-8184

October, 14, 1985

Lac. D'Amiante Du Quebec Ltd.
c/o Eastern Chen Trading Co., Ltd.
1117 Suite-Catherine St. West
Montreal, Que.
Canada H3B1H9
ATTN: T.Y. Chen

Dear Mr. Chen,

J-M Manufacturing is attempting to compile an improved, more accurate, specification outline for the Chrysotile white grade No. 4 & 5 asbestos fiber.

This will enable us to simplify our work efforts and minimize any future problems, which can arise, between the Purchasing Department and the vendor.

We have enclosed a copy of our "Draft Specification" on the grade no. 4 fiber.

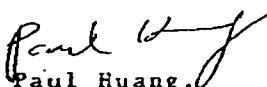
Please review and upon completion, would you give us your detailed comments concerning the following;

- a. Draft Specification of grade no. 4
- b. Your standard production data of grade no. 4 & 5

We appreciate this universal effort and request your response, to us, by October 31, 1985.

Thank you for your time and we look forward to hearing from you very soon.

Sincerely,


Paul Huang,
Purchasing Manager

PH/js

JMM 00000215

RECEIVED OCT 9 1985 *pf*

J-M Manufacturing Co., Inc.

Internal Correspondence

To : See Distribution

Date: October 8, 1985

From : J. Winston, Headquarters E & D *J. Winston*

Copies : Joe Chen, files

Subject : PURCHASE SPECIFICATION "DRAFT" FOR WHITE GRADE 4 ASBESTOS FIBER

Attached is a "draft" of a purchase specification intended to cover Grade 4 Fiber for use in AC Pipe.

Please critique Section II Detailed Requirements of this specification for its ability to provide an acceptance standard for purchasing of this grade fiber.

A final "draft" will be prepared from the information you provide in response to this correspondence.

Please review also, any currently approved suppliers of Grade 4 Fiber and provide vendor data so that they can be incorporated into this specification.

There is also a need for a Grade 5 Fiber Specification, following the same format as this one.

Please advise Headquarters of your comments on the detailed requirements and current approved suppliers for this type and grade fiber.

In order to prevent any unnecessary delays in issuance of a final specification, please respond by October 31, 1985.

JW:mc

Distribution: Daryl Wilkinson, Stockton
Terry Lohman, Denison
Bonnie Chacho, Denison
Tom Duecker, Headquarters
Paul Huang, Headquarters

JMM 00000216

DRAFT

 J-M Manufacturing Company, Inc. PURCHASE SPECIFICATION	SPECIFICATION NUMBER	PAGE NO.	1 of 2
	TR 1902	ISSUED DATE	
MATERIAL CHRYSOTILE WHITE GRADE 4 ASBESTOS FIBER		CANCELS	NONE
		LOCATIONS STOCKTON, DENISON	

NO CHANGE IN MATERIAL MAY BE MADE BY THE SUPPLIER WITHOUT WRITTEN APPROVAL OF THE APPROPRIATE SUBSIDIARY.
 IMPORTANT: ALWAYS INCLUDE THE SPECIFICATION NUMBER WHEN REFERRING TO THIS COMMODITY.

I. General Description:

Fiber covered by this specification shall be Grade 4 Chrysotile asbestos fiber for use in Asbestos Cement Pressure Pipe. An "umpire" sample shall be submitted by the vendor which will be used to determine whether incoming shipments compare favorably with this sample in regard to color, general appearance, and general characteristics.

II. Detailed Requirements:

The fiber, when tested in accordance with J-M test methods TR 425.52 and TR 425.36, shall conform to the following specifications:

<u>Bauer-McNett Wet Screen</u>	<u>% Allowable</u>
4	18% - 21%
14	20% - 22%
35	15% - 17%
200	13% - 15%
-200	28% - 31%

Fiber Wet Wash Test
 Minimum acceptable (Point Value)
 74 (NO Top Limit)

Additionally the Fiber will have a Rapid Surface Area of 7000 ± 500 (CM²/gr). When tested by means of the Turner & Newell-Fiberization test using a 50gr sample.

III. Sampling Procedure:

Lot - For purposes of sampling, a lot shall consist of not over one car-load, produced under essentially the same conditions and offered for inspection at one time.

Procedure - From each lot the inspector shall take a sample from each of 25 bags at random. Five (5) composite samples be prepared, each composite representing five separate bags.

X - INDICATES CHANGE

DRAFT

 J-M Manufacturing Company, Inc. PURCHASE SPECIFICATION	SPECIFICATION NUMBER	PAGE NO.	2 of 2
	TR 1902	ISSUED DATE	
MATERIAL*	CHRYSO TILE WHITE GRADE 4 ASBESTOS FIBER	CANCELS	NONE
		STOCKTON, DENISON	

NO CHANGE IN MATERIAL MAY BE MADE BY THE SUPPLIER WITHOUT WRITTEN APPROVAL OF THE APPROPRIATE SUBSIDIARY.
 IMPORTANT: ALWAYS INCLUDE THE SPECIFICATION NUMBER WHEN REFERRING TO THIS COMMODITY.

IV. Interpretation of Test Results:

The test results of each composite sample shall conform to the detailed requirements of (II) above.

V. Packaging and Shipping:

See Purchase Specification TR-1901

IV. Hazardous Materials Requirements:

A. Department of Transportation (49 CFR)

The material is classified as a hazardous material and shall be packaged, marked and labelled in accordance with 49 CFR.

1. DOT Proper Shipping Name - Asbestos
2. DOT Hazard Class - ORM-C
3. Regulated as of April 30, 1979
 (See Federal Register, December 4, 1978, page 56664).

X - INDICATES CHANGE

JMM 00000218



J-M Manufacturing Company, Inc.

1051 Sperry Road • Stockton, California 95206 • Tel: (209) 982-1500 • Telex: 359491 • Telecopier: (209) 465-8184

JM Asbestos Inc.
2000 Peel St.
Montreal, Quebec
H3A 2W5
ATTN: DIMITRY POUTIATINE

Nov. 16, 1984

Dear Dimitry,

Below you will find a list of raw materials, additives, and/or operating supplies and our forecasted 1985 requirements.

Please submit your quotation to us for these products by

<u>DESCRIPTION</u>	<u>1985 FORECAST</u>
White Asbestos Fiber 4T	12,600 ST
White Asbestos Fiber SR	2,000 ST
Blue Asbestos Fiber WMS-6	5,000 ST
Blue Asbestos Fiber WML-6	1,600 ST

Looking forward to your expediant response.

Sincerely,

Paul Huang
Purchasing Manager

PH/lh

JMM 00000219

1051 1/2 PERE ROAD
STOCKTON, CA 95208

Vendor (Name & Address)

BRIDGEGATE LTD.
PO BOX 14095
WEST ALLIS, WI 53214
(414) 383-2020
ATTN: PETER TRETTIN

AS RELEASED	Show This No. On Invoice, E.L. and Each Package. ↓
1/13/86	DEWILSON JH60012 STOCKTON

SEE BELOW	STOCKTON, HQ ACCT.	☒ DEST. ☐ CHARGE ☐ ALLOWED ☒ COLLECT	Taxable ____ %
	BEST WAY	N60	Tax Exempt ☒

Item	Quantity	Unit	Description	Unit Price	Extension
BLANKET ORDER FOR RECORD & BILLING PURPOSES ONLY TO COVER OUR PARTIAL REQUIREMENT OF MATERIAL SHOWN BELOW FOR THE PERIOD OF 1-1-86 to 12-31-86.					
DENISON:			ASBESTOS FIBER WML-6 GRADE	\$629.50/MT	
STOCKTON:			ASBESTOS FIBER WMS-6 GRADE	\$572.00/MT	
				\$652.50/MT	
				\$595.00/MT	
BOTH ARE PACKED IN 50 KG BAGS, PRESS BALED & PALLETIZED (OR 110# BAGS)					
MATERIAL TO BE SUPPLIED SHALL BE IN COMPLIANCE WITH J-M SPECIFICATION NO. IR-1900-8 DATED 11/19/80 ATTACHED HERETO. PRICES SHOWN SHALL BE FIRM FOR _____ OR UNTIL ADVISED & JM WILL RECEIVE A MINIMUM OF 30 DAYS WRITTEN NOTICE OF ANY INCREASE. AUTHORIZED SUPPLIER CONTACT: PETER TRETTIN AUTHORIZED JM CONTACT: XXXXXXXXXXXXXXX					
SHIP TO:	J-M MANUFACTURING *HIGHWAY 75 N DENISON, TX. 27509 AUTH. CONTACT: HAROLD STONE (214) 465-6390				
	*STANLEY SPERRY RD STOCKTON, CA. 95206 AUTH. CONTACT: D. W. WILKINSON (209) 982-1500 X250				
SEA TRANSPORTATION INSURANCE \$23.00/CONTAINER					

JMM 00000220

1. Please furnish, subject to the conditions appearing on reverse side of this order.
2. Material sold at the delivered prices or freight allowed must be shipped prepaid. No parcel post or insurance charges allowed except as provided above.
3. Mail invoice in duplicate & B/L on date of shipment.

By PAUL HUANG

PURCHASING AGENT

1051 SPERRY ROAD
STOCKTON, CA 95208

RECEIVED JAN 16 1986

P.R. No. H 8114	P.O. No. (Ref. No.) DEANSON H60612 STOCKTON
---------------------------	---

Acquisition Dept.		Date Prepared		Date Required		Requisitioned By		Project No. (wfo No.)		Change No.	
BLANKET ORDER		1/13/86		AS RELEASED		J. HSU					
Suggested Vendor						Remarks: (Justification, Package, etc.)				Deliver to:	
						BILL TO STOCKTON HQ ACCT.				DENISON, TX. STOCKTON, CA.	
Est. Date of Order		Date Ordered		Schedule Delivery		FOB		Incoterms		Est. Freight	
						EXW		FAS			
Contract No.						Ship Via		Terms		B.O. No.	
STOCKTON: 1900-8						BEST WAY		N60			
DENISON: 1900-8						Continuity				Charge Code	
STOCKTON: 1900-8						Palletized					
						Incoterms		EXW		Account No.	
Receiving		Item	Qty.	Unit	Complete Description				Unit Price	Extension	
C	D	A									
					BLANKET ORDER FOR RECORD & BILLING PURPOSES ONLY TO COVER OUR PORTION OF MATERIAL SHOWN BELOW FOR THE PERIOD OF 1-1-86 to 12-31-86.						
					DENISON, TX. STOCKTON, CA.						
					ASBESTOS FIBER WML-6 GRADE				\$629.	50 LB BAGS	
					ASBESTOS FIBER WMS-6 GRADE				\$572.	50 LB BAGS	
					BOTH ARE PACKED IN 50 LB BAGS, PRESS Baled & PALLETIZED						
					MATERIAL TO BE SUPPLIED SHALL BE IN COMPLIANCE WITH J-M SPECIFICATION NO. TR-1900-8 DATED 11/19/80 ATTACHED HERETO. PRICES SHOWN SHALL BE FIRM FOR OR UNTIL ADVISED & JM WILL RECEIVE A 30 DAY NOTICE OF ANY INCREASE.						
					AUTHORIZED SUPPLIER CONTACT: PETER TRETIN (414) 383-2020						
					AUTHORIZED JM CONTACT: HQ STOCKTON: D.W. WILKINSON (209) 982-1500						
					DENISON: HAROLD STONE (214) 465-0000						
					SEA TRANSPORTATION INSURANCE \$23.00/CONTAINER				Total		
					Date Received				President	V.P.	Manager
					Partial or Complete						
					Received By						
JMM 0000221											

PAUL HUANG *Paul Huang*
Purchasing Department

PURCHASING



J-M Manufacturing Company, Inc.

1051 Sperry Road • Stockton, California 95206 • Tel(209) 982-1500 • Telex 359491 • Telecopier(209) 465-8184

December 27, 1985

Eastern Chen Trading Co., Ltd.
1117 Suite-Catherine St. West
Montreal, Que.
Canada H3B1H9
Attn: Mr. T.Y. Chen

Re: Request for Quotation, 1986

Dear Mr. Chen,

Below you will find a list of our raw materials, additives, and/or operating supplies with our forecast requirements for the year 1986.

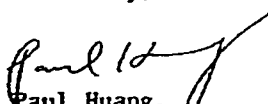
Please refer to our purchase specification as attached for your reference.

Also, please submit the quotation, with your catalog or literature, for these products by ASAP or sooner.

<u>DESCRIPTION</u>	<u>1986 FORECAST</u>			
<u>BLUE ASBESTOS FIBER</u>	<u>DENISON</u>	<u>MLBS</u>	<u>STOCKTON</u>	<u>MLBS</u>
a.) WMS-6 Grade	1,900	"	4,000	"
b.) WML-6 Grade	1,000	"	700	"

If there are any questions regarding the above items, please feel free to call me anytime.

Sincerely,


Paul Huang,
Purchasing Manager

PH/js

enclosures

JMM 00000222

 Johns-Manville PURCHASE SPECIFICATION	SPECIFICATION NUMBER	PAGE NO.	1 of 5
	TR-1901	ISSUED DATE	11/19/80
MATERIAL BLUE ASBESTOS FIBER (CROCIDOLITE)	CANCELS	None	
	LOCATIONS	P32, P48, P55	

NO CHANGE IN MATERIAL MAY BE MADE BY THE SUPPLIER WITHOUT WRITTEN APPROVAL OF JOHNS-MANVILLE.
 IMPORTANT: ALWAYS INCLUDE THE SPECIFICATION NUMBER WHEN REFERRING TO THIS COMMODITY.

I. GENERAL DESCRIPTION:

Fiber covered by this specification shall be crocidolite (blue asbestos of the amphibole type). An "umpire" sample shall be submitted by the vendor which will be used to determine whether incoming shipments compare favorably with this sample in regard to color, general appearance, and general characteristics.

II. DETAILED REQUIREMENTS:

The fiber, when tested in accordance with JM Test Method TR-425-52 shall conform to the following specifications:

<u>McNett Wet Screen</u>	<u>Range</u>
+ 14 Mesh Fiber	45% - 60%
- 100 Mesh Fines	31% - 37%
+ 14 Rock	3% Max.

III. SAMPLING PROCEDURE:

Lot - For purposes of sampling, a lot shall consist of not over one car-load, produced under essentially the same conditions and offered for inspection at one time.

Procedure - From each lot the inspector shall take a sample from each of 25 bags at random. Five composite samples be prepared, each composite representing 5 separate bags.

IV. INTERPRETATION OF TEST RESULTS:

The test results of each composite sample shall conform to the detailed requirements of (2) above.

V. PACKAGING AND SHIPPING:

A. Fiber shall be packaged in a woven polyethylene bag, (polypropylene-alternate) containing 50 kilos (110.23 lbs.) measuring 1016 mm long x 546 mm wide x 241 mm high (40" x 21-1/2" x 9-1/2").

B. Bagged fibre shall be compressed into a bale containing six (6) bags, for a total weight of 300 kilos (661.38 lbs.) and measuring 1118 mm long x 559 mm wide x 686 mm high (44" x 22" x 27"). Each bale shall be banded with four (4) each 5 mm nail wires, equally spaced in the length dimension and each securely sealed. Because of the clip protruding, a protective cover of some material should be applied or affixed to the clip to prevent tearing and or abrasion of adjacent bags. A warning label with instructions for properly cutting the nail wire shall be placed on clip side of the bale. Each bale shall be distinctly marked showing the fibre grade.

X — INDICATES CHANGE

JMM 00000223

JM Johns-Manville	SPECIFICATION NUMBER	PAGE NO.	2 of 5
PURCHASE SPECIFICATION	TR-1901	ISSUED DATE	11/19/80
MATERIAL		CANCELS	None
BLUE ASBESTOS FIBER (CROCIDOLITE)		LOCATIONS	P32, P48, P55

NO CHANGE IN MATERIAL MAY BE MADE BY THE SUPPLIER WITHOUT WRITTEN APPROVAL OF JOHNS-MANVILLE.
 IMPORTANT: ALWAYS INCLUDE THE SPECIFICATION NUMBER WHEN REFERRING TO THIS COMMODITY.

V. PACKAGING AND SHIPPING: (Continued)

C. Bales units shall be loaded two (2) bales deep by three (3) bales high, for a total of six (6) bales on a flush stringer, double faced, non-reversible, 2-way entry pallet. (See attached sketch for pallet dimensions and specific construction). Each bale shall be placed on the pallet and on top of each other with the 5 mm nail wire clip facing inward toward the center of the pallet. A minimum of two (2) steel straps, 12.7 mm wide x .508 mm thick (1/2" x .020") minimum shall be used to secure the six (6) bales to the pallet. Protective material, such as pieces of paraweb sling, molded plastic strips, or equivalent; of sufficient length to prevent the steel strap from cutting or abrading the fibre bags; shall be placed under each steel strap at each location where the strap is in contact with a corner of a bale. Each strap shall be securely tensioned and sealed.

Total net weight for a six (6) bale (36 bags) palletized unit shall be 1.8 metric tons (3968 lbs.) and for a four (4) bale (24 bags) palletized unit shall be 1.2 metric tons (2646 lbs.).

See the attached sketches for the bale and palletized unit construction with dimensions and tolerances.

D. Shipment: Palletized units shall be loaded into standard 6.1 meter (20 ft.) long containers. Each container shall contain the following number of palletized units:

1. Preferred: Ten (10) palletized units, each containing 36 bags of fibre for a total of 360 bags, net weight of 18.0 metric tons (39683 lbs.) per container.
2. Alternate: Nine (9) palletized units of 36 bags per unit plus one (1) palletized unit of 24 bags for a total of 348 bags, net weight of 17.4 metric tons (38361 lbs.) per container.

E. This material is classified as a hazardous material and shall be packaged in accordance with DOT regulations 49 CFR.

NO FIBRE BAGS SHALL BE SHIPPED WITH BAGS DAMAGED AND FIBRE EXPOSED.
ALL DAMAGED BAGS MUST BE TAPED WITH A MATERIAL TO INSURE COMPLETE AND ADEQUATE COVERAGE OF THE DAMAGED AREA.

X — INDICATES CHANGE

U-116-A

JMM 00000224



Johns-Manville

SPECIFICATION NUMBER

PAGE NO.

3 of 5

PURCHASE SPECIFICATION

TR-1901

ISSUED DATE

11/19/80

MATERIAL

CANCELS

None

LOCATIONS

BLUE ASBESTOS FIBER (CROCIDOLITE)

P32, P48, P55

NO CHANGE IN MATERIAL MAY BE MADE BY THE SUPPLIER WITHOUT WRITTEN APPROVAL OF JOHNS-MANVILLE.
IMPORTANT: ALWAYS INCLUDE THE SPECIFICATION NUMBER WHEN REFERRING TO THIS COMMODITY.

VI. HAZARDOUS MATERIALS REQUIREMENTS:**A. Department of Transportation (49 CFR)**

The material is classified as a hazardous material and shall be packaged, marked and labelled in accordance with 49 CFR.

1. DOT Proper Shipping Name - Asbestos.
2. DOT Hazard Class - ORM-C.
3. Regulated as of April 30, 1979

(See Federal Register, December 4, 1978, page 56664).

X — INDICATES CHANGE

JMM 00000225

PURCHASE SPECIFICATION

TR-1901

ISSUED DATE: 11/19/80

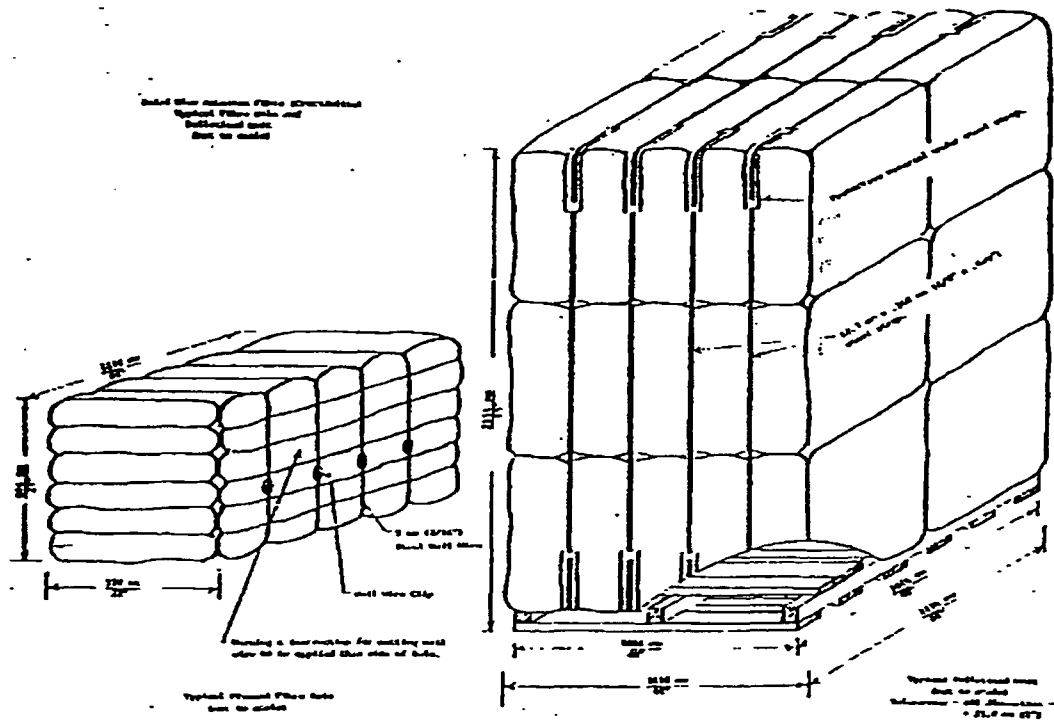
CANCELS : None

LOCATION

P32, P46, P55

BLUE ASBESTOS FIBER (CROCIDOLITE)

NO CHANGE IN MATERIAL MAY BE MADE BY THE SUPPLIER WITHOUT WRITTEN APPROVAL OF JOHNS-MANVILLE.
IMPORTANT: ALWAYS INCLUDE THE SPECIFICATION NUMBER WHEN REFERRING TO THIS COMMODITY.



X — INDICATES CHANGE

MEMORY CLEAR

CONNECTED

JH HQ STO

EASYLINK 9701699C001 6JAN86 17:35/17:41 EST
FROM: 5106002047 SPECIAL3Z HIL
9102623106 SPECIAL3Z HIL
SPECIAL SHIPPING INC
TO: 359491

TO: P HUANG/J-H A/C PIPE CORP.
FM: B HEERING/BRAKEGATE LTD.
166-2U
1/6/86
SUBJ: BLUE ASBESTOS FIBER PRICES

EFFECTIVE WITH THE VESSEL M/V ROACHBANK V89 EUS AFRICA 1/22
ETA HOUSTON 2/21 PRICES OF [REDACTED] WILL BE:

GRADE	US\$/MT	
	FOB NINE FREIGHT PREPAID AND ALLOWED DENSON, TX	RICHMOND, CA
HHL	629.50	652.50
HHS	572.00	595.00

PRICES: PER METRIC TON (2,205 LBS.) FOB NINE FREIGHT PREPAID
AND ALLOWED. CARGO INSURANCE, CUSTOMS ENTRY, LOCAL DUTIES,
TAXES, ETC., ARE FOR BUYER'S ACCOUNT. PRICES ARE SUBJECT TO
CHANGE WITHOUT NOTICE.

TERMS: SIXTY (60) DAYS FROM INVOICE DATE, BACKED BY STANDBY
IRREVOCABLE L/C CONFIRMED BY A U.S. BANK. PAYMENT TO BRAKE-
GATE LTD., MARINE BANK, N.A., INT'L TELLER, INT'L DEPT.,
P.O. BOX 975, MILWAUKEE, WI 53201.

INSURANCE: CARGO INSURANCE WILL BE COVERED UNDER GROUP POLICY
AND WILL BE ADDED TO INVOICE AT COST. PRESENT CHARGE APPROX.
USD 23.00/CONTAINER.

[REDACTED]
PER PALLET, 17.4 MT/20' CONT.

REGARDS
B. HEERING
BRAKEGATE LTD.

HHHH

*The amount of stand-by LC will be
revised from \$650,000 to \$410,000.*

JH HQ STO

ful 1/8

DISCONNECTED

JMM 00000228



J-M Manufacturing Company, Inc.

1051 Sperry Road, Stockton, California 95206
Tel:(209) 982-1500 • Telex:359491 • Telecopier:(209) 465-8184

November 21, 1985.

*****Revised Quotation: See Below; ST should be MLBS**

Brakegate Limited
PO Box 14095
West Allis, WI. 53214
Attn: Richard C. Wareham (414) 383-2020

Re: Request for Quotation, 1986

Dear Richard,
Below you will find a list of our raw materials, additives, and/or operating supplies with our forecast requirements for the year 1986.

Please refer to our purchase specification as attached for your reference.

Also, please submit the quotation, with your catalog or literature, For these products by 12/6/85 or sooner.

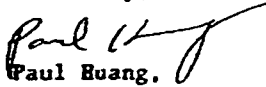
DESCRIPTION

1986 FORECAST

<u>BLUE ASBESTOS FIBER</u>	<u>DENISON</u>	<u>MLBS</u>	<u>STOCKTON</u>	<u>MLBS</u>
***a.) WMS-6 Grade	1,900	"	4,000	"
***b.) WML-6 Grade	1,100	"	700	"

If there are any questions regarding the above items, please feel free to call me anytime.

Sincerely,


Paul Huang,
Purchasing Manager

PH/js

enclosures

JMM 00000229

 Johns-Manville		SPECIFICATION NUMBER		PAGE NO.		1 of 5									
PURCHASE SPECIFICATION		TR-1901		ISSUED DATE		11/19/80									
MATERIAL				CANCELS		None									
				LOCATIONS		P32, P48, P55									
NO CHANGE IN MATERIAL MAY BE MADE BY THE SUPPLIER WITHOUT WRITTEN APPROVAL OF JOHNS-MANVILLE. IMPORTANT: ALWAYS INCLUDE THE SPECIFICATION NUMBER WHEN REFERRING TO THIS COMMODITY.															
I. GENERAL DESCRIPTION: Fiber covered by this specification shall be crocidolite (blue asbestos of the amphibole type). An "umpire" sample shall be submitted by the vendor which will be used to determine whether incoming shipments compare favorably with this sample in regard to color, general appearance, and general characteristics.															
II. DETAILED REQUIREMENTS: The fiber, when tested in accordance with JM Test Method TR-425-52 shall conform to the following specifications: <table border="0"> <tr> <td><u>McNett Wet Screen</u></td> <td><u>Range</u></td> </tr> <tr> <td>+ 14 Mesh Fiber</td> <td>45% - 60%</td> </tr> <tr> <td>- 100 Mesh Fines</td> <td>31% - 37%</td> </tr> <tr> <td>+ 14 Rock</td> <td>3% Max.</td> </tr> </table>								<u>McNett Wet Screen</u>	<u>Range</u>	+ 14 Mesh Fiber	45% - 60%	- 100 Mesh Fines	31% - 37%	+ 14 Rock	3% Max.
<u>McNett Wet Screen</u>	<u>Range</u>														
+ 14 Mesh Fiber	45% - 60%														
- 100 Mesh Fines	31% - 37%														
+ 14 Rock	3% Max.														
III. SAMPLING PROCEDURE: Lot - For purposes of sampling, a lot shall consist of not over one car-load, produced under essentially the same conditions and offered for inspection at one time. Procedure - From each lot the inspector shall take a sample from each of 25 bags at random. Five composite samples be prepared, each composite representing 5 separate bags.															
IV. INTERPRETATION OF TEST RESULTS: The test results of <u>each composite sample</u> shall conform to the detailed requirements of (2) above.															
V. PACKAGING AND SHIPPING: A. Fiber shall be packaged in a woven polyethylene bag, (polypropylene-alternate) containing 50 kilos (110.23 lbs.) measuring 1016 mm long x 546 mm wide x 241 mm high (40" x 21-1/2" x 9-1/2"). B. Bagged fibre shall be compressed into a bale containing six (6) bags, for a total weight of 300 kilos (661.38 lbs.) and measuring 1118 mm long x 559 mm wide x 686 mm high (44" x 22" x 27"). Each bale shall be banded with four (4) each 5 mm nail wires, equally spaced in the length dimension and each securely sealed. Because of the clip protruding, a protective cover of some material should be applied or affixed to the clip to prevent tearing and or abrasion of adjacent bags. A warning label, to be placed on clip side of the bale, showing the fibre grade, shall be placed on clip side of the bale, showing the fibre grade, tly marked showing the fibre grade.															
X - INDICATES CHANGE															



Johns-Manville

SPECIFICATION NUMBER

PAGE NO.

2 of 5

PURCHASE SPECIFICATION

TR-1901

ISSUED DATE 11/19/80

MATERIAL

CANCELS None

LOCATIONS

BLUE ASBESTOS FIBER (CROCIDOLITE)

P32, P48, P55

NO CHANGE IN MATERIAL MAY BE MADE BY THE SUPPLIER WITHOUT WRITTEN APPROVAL OF JOHNS-MANVILLE.
IMPORTANT: ALWAYS INCLUDE THE SPECIFICATION NUMBER WHEN REFERRING TO THIS COMMODITY.

V. PACKAGING AND SHIPPING: (Continued)

- C. Bales units shall be loaded two (2) bales deep by three (3) bales high, for a total of six (6) bales on a flush stringer, double faced, non-reversible, 2-way entry pallet. (See attached sketch for pallet dimensions and specific construction). Each bale shall be placed on the pallet and on top of each other with the 5 mm nail wire clip facing inward toward the center of the pallet. A minimum of two (2) steel straps, 12.7 mm wide x .508 mm thick (1/2" x .020") minimum shall be used to secure the six (6) bales to the pallet. Protective material, such as pieces of paraweb sling, molded plastic strips, or equivalent; of sufficient length to prevent the steel strap from cutting or abrading the fibre bags; shall be placed under each steel strap at each location where the strap is in contact with a corner of a bale. Each strap shall be securely tensioned and sealed.

Total net weight for a six (6) bale (36 bags) palletized unit shall be 1.8 metric tons (3968 lbs.) and for a four (4) bale (24 bags) palletized unit shall be 1.2 metric tons (2646 lbs.).

See the attached sketches for the bale and palletized unit construction with dimensions and tolerances.

- D. Shipment: Palletized units shall be loaded into standard 6.1 meter (20 ft.) long containers. Each container shall contain the following number of palletized units:

1. Preferred: Ten (10) palletized units, each containing 36 bags of fibre for a total of 360 bags, net weight of 18.0 metric tons (39683 lbs.) per container.
2. Alternate: Nine (9) palletized units of 36 bags per unit plus one (1) palletized unit of 24 bags for a total of 348 bags, net weight of 17.4 metric tons (38361 lbs.) per container.

- E. ~~This section has been removed and replaced with the following:~~
in accordance with DOT regulations 49 CFR.

NO FIBRE BAGS SHALL BE SHIPPED WITH BAGS DAMAGED AND FIBRE EXPOSED. ALL DAMAGED BAGS SHALL BE COVERED WITH A MATERIAL TO INSURE COMPLETE AND ADEQUATE COVERAGE OF THE DAMAGED AREA.

X — INDICATES CHANGE

JMM 00000231



Johns-Manville

SPECIFICATION NUMBER

PAGE NO.

3 of 5

PURCHASE SPECIFICATION

TR-1901

ISSUED DATE

11/19/80

MATERIAL

CANCELS

None

LOCATIONS

BLUE ASBESTOS FIBER (CROCIDOLITE)

P32, P48, P55

NO CHANGE IN MATERIAL MAY BE MADE BY THE SUPPLIER WITHOUT WRITTEN APPROVAL OF JOHNS-MANVILLE.
IMPORTANT: ALWAYS INCLUDE THE SPECIFICATION NUMBER WHEN REFERRING TO THIS COMMODITY.

VI. HAZARDOUS MATERIALS REQUIREMENTS:

A. Department of Transportation (49 CFR)

The material is classified as a hazardous material and shall be packaged, marked and labelled in accordance with 49 CFR.

1. DOT Proper Shipping Name - Asbestos.
2. DOT Hazard Class - ORM-C.
3. Regulated as of April 30, 1979
(See Federal Register, December 4, 1978, page 56664).

X - INDICATES CHANGE

JM-126-A

JMM 00000232



Johns-Manville

SPECIFICATION NUMBER

PAGE NO.

4 of 5

PURCHASE SPECIFICATION

TR-1901

ISSUED DATE

11/19/80

CANCELS

None

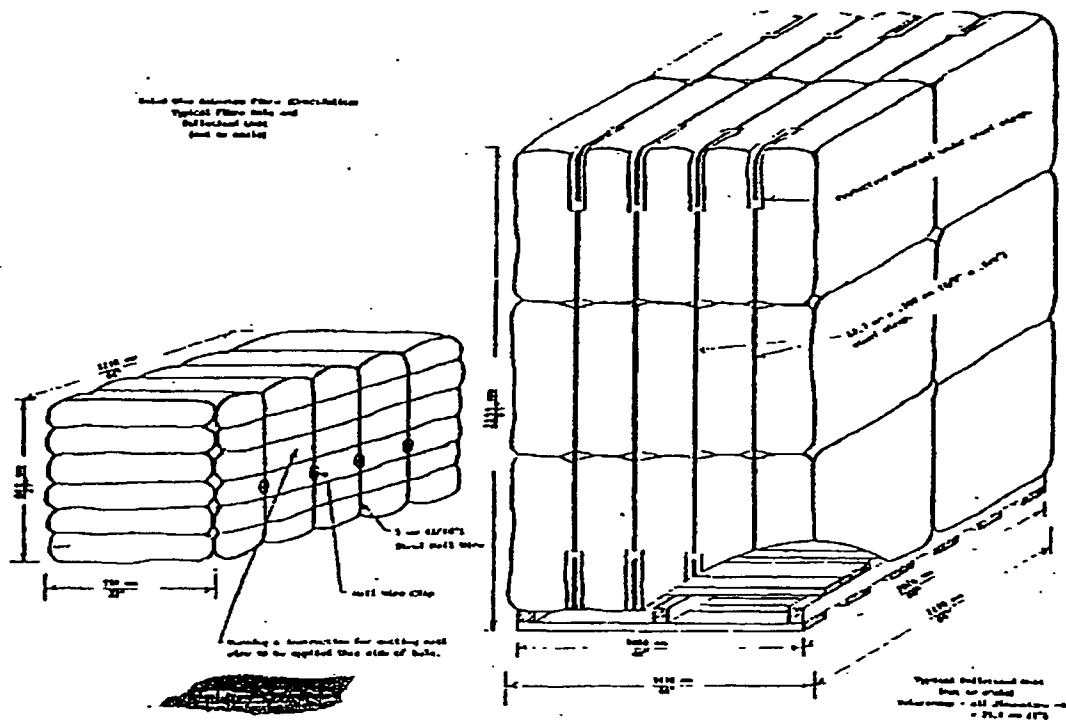
REMARKS

BLUE ASBESTOS FIBER (CROCIDOLITE)

LOCATIONS

P32, P46, P55

NO CHANGE IN MATERIAL MAY BE MADE BY THE SUPPLIER WITHOUT WRITTEN APPROVAL OF JOHNS-MANVILLE.
 IMPORTANT: ALWAYS INCLUDE THE SPECIFICATION NUMBER WHEN REFERRING TO THIS COMMODITY.



X — INDICATES CHANGE

JMM-553-A

JMM 00000233

TR-1901

ISSUED DATE 11/19/80

MATERIAL

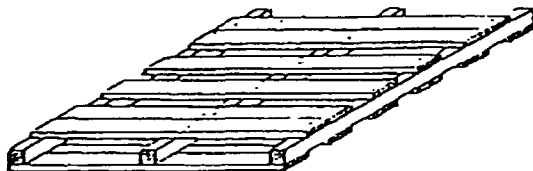
CANCELS None

BLUE ASBESTOS FIBER (CROCIDOLITE)

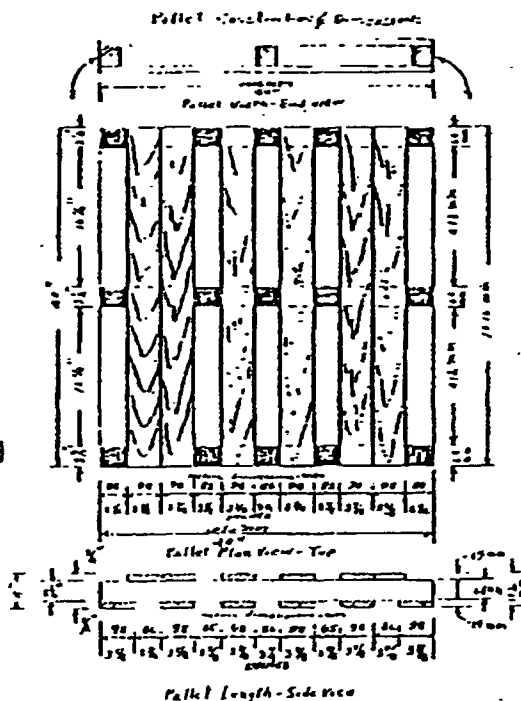
P32, P48, P55

NO CHANGE IN MATERIAL MAY BE MADE BY THE SUPPLIER WITHOUT WRITTEN APPROVAL OF JOHNS-MANVILLE.
 IMPORTANT: ALWAYS INCLUDE THE SPECIFICATION NUMBER WHEN REFERRING TO THIS COMMODITY.

Define construction for ground
 based and palletized blue asbestos
 fiber/crocidolite
 sent to market



Typical Pallet - 48" x 40" x 4"
 Double front, non-skid, 2" x 4" every 4" on center
 sent to market



X — INDICATES CHANGE

**J-M Manufacturing
Company, Inc.**

Purchase Order

1051 Sperry Road
Stockton, CA 95206-3993
(209) 982-1500

Vendor (Name & Address)

AKGATE, LTD.
POST OFFICE BOX 14095
WEST ALLIS, WI. 53214
(414) 383-2020
ATTN: PETER TRETTIN

Delivery Schedule	Draw Title No. On Invoice
AS RELEASED	B/L and Each Package
06-23-87	JH 70028

J-M MFG. CO., INC. HIGHWAY 75N DENISON, TEXAS 75020 (214) 465-6399/PETER TRETTIN	STOCKTON, CA. HQ ATP	FOB PLANT DEST ☒ CHARGE ☐ ALLOWED ☐ COLLECT N60 BACKED BY STANDBY L/C	Taxable % Tax Exempt ☒
---	----------------------	--	---

Item	Quantity	Unit	Description	Unit Price	Extension
EFFECTIVE 07-01-87, PRICES ARE REVISED AS FOLLOWS:					
			WAS NOW ASBESTOS FIBER WML-6 603.-/MT 629.3/MT		
			ASBESTOS FIBER WMS-6 549.-/MT 572.-/MT		
THE REST, TERMS, ETC., OF THIS BLANKET ORDER REMAIN THE SAME.					
JMM 00000235					

- Please furnish, subject to the conditions appearing on reverse side of this order.
- Material sold at the delivered prices or freight allowed must be shipped pre-paid. No parcel post or insurance charges allowed except as provided above.
- Mail invoice in duplicate & B/L on date of shipment.

By PAUL HUANG

Purchase Requisition

						P.R. No. H 0755	Procurement Case No. JMM 0000236	
Requisition Dept.			Date Prepared		Date Required	Requisitioned By	Blanket Order No. JMM 00076	Charge No.
06-25-87			06-23-87		AS RELEASED	RODUCTION DEPT.		
Suggested Vendor						Remarks: (Justification, Package, etc.) BILL TO STOCKTON, CA. HQ A/P		Deliver to: J-M MFG. CO. INC. DENISON, TEXAS
Estimated Price			Date Ordered		Schedule Delivery	Comments		Estimate No.
Purchase Order No.			Invoice No.		Quantity	Unit Price	Charge Code/Cost Center	
Account No.			Project No. (w/o No)					
Rating			Item	Qty	Unit	Complete Description	Unit Price	Extension
C	B	A						
						EFFECTIVE 7-1-87, PRICES ARE REVISED AS FOLLOWS:		
						<u>WAS</u> <u>NOW</u> ASBESTOS FIBER WML-6 603.-/MT 629.5/MT		
						ASBESTOS FIBER WMS-6 549.-/MT 572.-/MT		
						THE REST TERMS, ETC. OF THIS BLANKET ORDER REMAIN NO CHANGE.		
							Total	
Date Received			President		V.P.	Manager	Section Head	
Partial or Complete								
Received By			APPROVAL			Jmm 6/28	JMM 0000236	

(Purchasing fill out Shaded areas)

PAUL HUANG

Purchasing Department

PURCHASING

RECEIVED JUN 22 1987

> T052M738 AUTOMATICALLY SENT 06/19/87 10:09 CONNECTED FOR 001.0 MIN VIA DDD ()
> PH# 27718058BB120120

LASYLINK
ID700 EIC001697 SPEC.SHIPMIL

Search DUN'S MILLION DOLLAR DIRECTORY database FREE
on InfoMaster Service until June 28. Enter /EXIT INF

6572433C 19JUN87 10:13 EST
PTS
359491():BGL+

GA
TO: P HUANG/JM A/C PIPE CORP.
FM: B HEERING/BRAKEGATE LTD
M738 6/18/87

SUBJ: BLUE ASBESTOS FIBER PRICES

EFFECTIVE JULY 1 1987 PRICES OF BLUE ASBESTOS FIBER WILL BE AS
FOLLOWS:

USD/MT FOB MINE FREIGHT PREPAID AND ALLOWED TO:

GRADE	DENISON, TX	RICHMOND, CA
WML-6	USD 629.50/MT	USD 652.50/MT
3-6	572.00/MT	595.00/MT

PRICES: PER METRIC TON (2205 LBS) FOB MINE FREIGHT PREPAID AND
ALLOWED. CARGO INSURANCE, CUSTOMS ENTRY, LOCAL DUTIES AND TAXES,
DEMURRAGE, ETC. ARE FOR BUYER'S ACCOUNT. PRICES ARE SUBJECT TO
CHANGE WITHOUT NOTICE.

TERMS: SIXTY (60) DAYS FROM INVOICE DATE, BACKED BY STANDBY
IRREVOCABLE L/C CONFIRMED BY A U.S. BANK. PAYMENT TO BRAKEGATE
LTD., MARINE BANK, N.A., INT'L DEPT., INT'L TELLER, P.O. BOX 975,
MILWAUKEE, WI 53201 U.S.A.

INSURANCE: CARGO INSURANCE WILL BE COVERED UNDER GROUP POLICY
AND WILL BE ADDED TO INVOICE AT COST. PRESENT CHARGE APPROX.
USD 23.00/CONTAINER.

PACKAGING: 50 KGS/POLYWOVEN BAG, BALED AND BANDED, 1800 KGS/PALLET
17.4 MT/CONT.

SCHEDULING: SAILING EVERY 4-6 WEEKS. REQUEST 60 DAYS LEAD TIME
PRIOR TO VESSEL SAILINGS.

ORDERS TO: BRAKEGATE LTD, P.O. BOX 14095, WEST ALLIS, WI 53214

THE ABOVE CHANGE REVERTS PRICES BACK TO JANUARY '87 PRICES. THIS
INCREASE IS NECESSARY DUE TO FREIGHT INCREASES AND OTHER COST
INCREASES WHICH CAN NO LONGER BE ABSORBED.

SHOULD YOU HAVE ANY QUESTIONS, PLS ADVISE.

THANK YOU FOR YOUR PAST BUSINESS. WE LOOK FORWARD TO SERVING YOUR
NEEDS IN THE FUTURE.

BEST REGARDS
BRAKEGATE LTD

MMMM

ACCEPTED 6572433C

JMM 00000238

EASYLINK MBX 6572433C001 19JUN87 10:14/11:22 EST
FROM: 5106002047 SPECIAL3Z MIL
9102623106 SPECIAL3Z MIL
INTERCORP INC
TO: 62933224 VIA: 359491

TO: P HUANG/JM A/C PIPE CORP.
FM: B HEERING/BRAKEGATE LTD
M738 6/18/87

SUBJ: BLUE ASBESTOS FIBER PRICES

EFFECTIVE JULY 1 1987 PRICES OF BLUE ASBESTOS FIBER WILL BE AS
FOLLOWS:

USD/MT FOB MINE FREIGHT PREPAID AND ALLOWED TO:

GRADE	DENISON, TX	RICHMOND, CA
WML-6	USD 629.50/MT	USD 652.50/MT
WMS-6	572.00/MT	595.00/MT

PRICES: PER METRIC TON (2205 LBS) FOB MINE FREIGHT PREPAID AND
ALLOWED. CARGO INSURANCE, CUSTOMS ENTRY, LOCAL DUTIES AND TAXES,
DEMURRAGE, ETC. ARE FOR BUYER'S ACCOUNT. PRICES ARE SUBJECT TO
CHANGE WITHOUT NOTICE.

TERMS: SIXTY (60) DAYS FROM INVOICE DATE, BACKED BY STANDBY
IRREVOCABLE L/C CONFIRMED BY A U.S. BANK. PAYMENT TO BRAKEGATE
LTD., MARINE BANK, N.A., INT'L DEPT., INT'L TELLER, P.O. BOX 975,
MILWAUKEE, WI 53201 U.S.A.

INSURANCE: CARGO INSURANCE WILL BE COVERED UNDER GROUP POLICY
AND WILL BE ADDED TO INVOICE AT COST. PRESENT CHARGE APPROX.
USD 23.00/CONTAINER.

PACKAGING: 50 KGS/POLYWOVEN BAG, BALED AND Banded, 1800 KGS/PALLET
17.4 MT/CONT.

SCHEDULING: SAILING EVERY 4-6 WEEKS. REQUEST 60 DAYS LEAD TIME
PRIOR TO VESSEL SAILINGS.

ORDERS TO: BRAKEGATE LTD, P.O. BOX 14095, WEST ALLIS, WI 53214

THE ABOVE CHANGE REVERTS PRICES BACK TO JANUARY '87 PRICES. THIS
INCREASE IS NECESSARY DUE TO FREIGHT INCREASES AND OTHER COST
INCREASES WHICH CAN NO LONGER BE ABSORBED.

SHOULD YOU HAVE ANY QUESTIONS, PLS ADVISE.

THANK YOU FOR YOUR PAST BUSINESS. WE LOOK FORWARD TO SERVING YOUR
NEEDS IN THE FUTURE.

BEST REGARDS
BRAKEGATE LTD

MMMM

JMM 00000239

**J-M Manufacturing
Company, Inc.**

1951 SPERRY ROAD
STOCKTON, CA 95202

Purchase Order

Vendor (Name & Address)

BRIDGEGATE LTD.,
PO BOX 14095
WEST ALLIS, WI 53214
(414) 383-2020
PETER TRETTIN

AS RELEASED		Show This No. On Invoice.
01-27-87		B/L per Each Package. ↓
		JH 70028

SHIP TO	JM MANUFACTURING	STOCKTON, CA.	PLANT DEST.	PTD CHARGE	PTD ALLOWED	COLLECT	Taxable
	HIGHWAY 75N		OSP		XX		%
	DENISON, TEXAS 75020	BEST WAY					Tax Exempt ☒

Item	Quantity	Unit	Description	Unit Price	Extension	
			BLANKET ORDER FOR RECORD & BILLING PURPOSES ONLY TO COVER OUR PARTIAL REQUIREMENT OF MATERIAL SHOWN FOR THE PERIOD OF 1-23-87 TO 12-31-87 -			
				<u>DENISON, TX.</u>	<u>RICHMOND, CA</u>	
			ASBESTOS FIBER WML-6 GRADE	\$603.00/MT	\$626.00/MT	
			ASBESTOS FIBER WMS-6 GRADE	\$549.00/MT	\$572.00/MT	
			BOTH ARE PACKED IN 50 LB. BAGS, HEES BALED AND PALLETIZED.			
			MATERIAL TO BE SUPPLIED SHALL BE IN COMPLIANCE WITH J-M SPECIFICATION NO. _____ DATED _____ ATTACHED HERETO. PRICES SHOWN SHALL BE FIRM FOR _____ OR UNTIL <u>ADVISED</u> & J-M WILL RECIEVE A MINIMUM OF 30 DAYS WRITTEN NOTICE OF ANY INCREASE. AUTHORIZED SUPPLIER CONTACT: PETER TRETTIN (414)383-2020 AUTHORIZED J-M CONTACT: STOCKTON/D.W. WILKINSON (209)982-1500 DEN, TX/HAROLD STONE (214)465-6390			

JMM 00000240

JMM 00000240

- Please furnish, subject to the conditions appearing on reverse side of this order.
- Material sold at the delivered prices or freight allowed must be shipped prepaid. No parcel post or insurance charges allowed except as provided above.
- Mail Invoice in duplicate & B/L on date of shipment.

By PAUL HUANG

PURCHASING AGENT

201-00

J-M A/C PIPE CORP.

1051 SPERRY ROAD
STOCKTON, CA 95206

Purchase Requisition

P.R. No.	P.O. No. (Release No.)
H 9118	JB 70028

Acquisition Dept.	Date Prepared	Date Required	Requisitioned By	Project No. (w/o No.)	Change No.
BLANKET	01-27-87	AS RELEASED	B. HARRIS		
Suggested Vendor			Remarks: (Justification, Package, etc.) BILL TO STOCKTON, CA. HQ A/P	Deliver to: DENNISON, TX. STK., CA.	
Est. Date of Order	Date Ordered	Schedule Delivery	FOB PLANT ☐ DEST ☐	PPH CHARGE ☐	PPH ALLOWED ☒
			☒ SP ☐		COLLECT ☐
Ordered From BRAKRGATE, LTD. P.O. BOX 14095 WEST ARLIS, MI 53214 (414) 383-2020			Ship Via BEST WAY	Terms N 60	B.O. No.
			Confirm to PETER TRETTIN	Charge Code	
			Taxable _____ %	☒ Tax Exempt	
			Account No.		

Receiving			Item	Qty.	Unit	Complete Description	Unit Price	Extension	
C	E	A							
			BLANKET ORDER FOR 1-28-87 TO			RECORD & BILLING PURPOSES ONLY TO COVER OUR PARTIAL REQUIREMENT OF 12-31-87			
						DEN, TX. ASBESTOS FIBER WML-6 GRADE \$603.00/MT	RICHMOND, CA \$626.00/MT		
						ASBESTOS FIBER WMS-6 GRADE \$549.00/MT	\$572.00/MT		
						BOTH ARE PACKED IN 50LB. BAGS, PRESS BALE AND PALLETIZED.			
			MATERIAL TO BE SUPPLIED SHALL BE IN COMPLIANCE WITH J-M SPECIFICATION NO. DATED _____ ATTACHED HERETO. PRICES SHOWN SHALL BE FIRM FOR OR UNTIL ADVISED _____ AND J-M WILL RECIEVE A MINIMUM OF 30 DAYS WRITTEN NOTICE OF ANY INCREASE.						
			AUTHORIZED SUPPLIER CONTACT:			PETER TRETTIN (414) 383-2020			
			AUTHORIZED J-M CONTACT:			STOCKTON/D.W. WILSON (209) 982-1500 DEN, TX/HAROLD STONE (214) 465-6396			
							Total		
			Date Received	APPROVAL	President	V.P.	Manager	Section Head	
			Partial or Complete			<i>[Signature]</i> 2/2/87			
			Received By						JMM 00000241

(Purchasing fill out Shaded areas)

Hom 2/9

PAUL HUNG
Purchasing Department

PURCHASING

/MBX

EASYLINK MBX 4564991C001 23JAN87 13:58/11:49 EST

FROM: 5106002047 SPECIAL3Z MIL

9102623106 SPECIAL3Z MIL

SPECIAL SHIPPING INC

TO: 62933224 VIA: 359491

TO: P HUANG/JM A/C PIPE CORP.

FM: B HEERING/BRAKEGATE LTD

M419 1/23/87

SUBJ: BLUE ASBESTOS FIBER PRICES

RECEIVED

JAN 23 1987

WHL.....

WE QUOTE THE FLWG PRICES EFFECTIVE WITH THE SAILING OF THE M/V GACKA
V2, SAILING 2/2/87:

USD/MT FOB MINE FREIGHT PREPAID AND ALLOWED TO:

GRADE	DENISON, TX	RICHMOND, CA
WML-6	USD 603.00/MT	USD 626.00/MT
WMS-6	549.00/MT	572.00/MT

PRICES: PER METRIC TON FOB MINE FREIGHT PREPAID AND ALLOWED.

CARGO INSURANCE, CUSTOMS ENTRY, LOCAL DUTIES AND TAXES,
DEMURRAGE, ETC., ARE FOR BUYER'S ACCOUNT. PRICES ARE SUBJECT
TO CHANGE WITHOUT NOTICE.

TERMS: SIXTY (60) DAYS FROM INVOICE DATE, BACKED BY STANDBY
IRREVOCABLE L/C CONFIRMED BY A U.S. BANK. PAYMENT TO BRAKE-
GATE LTD., MARINE BANK, N.A., INT'L DEPT., INT'L TELLER,
P.O. BOX 975, MILWAUKEE, WI 53201 U.S.A.

INSURANCE: CARGO INSURANCE WILL BE COVERED UNDER GROUP POLICY
AND WILL BE ADDED TO INVOICE AT COST. PRESENT CHARGE APPROX.
USD 23.00/CONTAINER.

PACKAGING: 50 KGS/POLYWOVEN BAG, BALED AND BANDED, 1800 KGS/PALLET
17.4 MT/CONT.

SCHEDULING: SAILING EVERY 4-6 WEEKS. REQUEST 60 DAYS LEAD TIME
PRIOR TO VESSEL SAILINGS.

ORDERS TO: BRAKEGATE LTD, P.O. BOX 14095, WEST ALLIS, WI 53214
EXISTING STANDBY L/C NO. 6373609 SHOULD BE RENEWED TO EXPIRE
MARCH 31, 1988.

SHOULD YOU HAVE ANY QUESTIONS, PLS ADVISE.

BST RGDS

BRAKEGATE LTD

MMMM

EASYLINK MBX 8880442A001 23JAN87 14:41/11:50 EST

VIA: 359491

TO: 62933224

1439 EST

JM HQ STO

JMM 00000242



J-M Manufacturing Company, Inc.

1051 Sperry Road, Stockton, California 95206 • Tel.: (209) 982-1500 • Tdex: 359491 • Telecopier: (209) 465-8184

December 5, 1986

Brakegate Limited.
PO Box 14095
West Allis, WI 53214
Attn: Peter Trettin
(414) 383-2020

Re: Request for Quotation, 1987

Dear Peter,

Below you will find a list of our raw materials, additives, and/or operating supplies with our forecast requirements for the year 1987

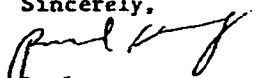
Please refer to our purchase specification as attached for your reference.

Also, please submit the quotation, with your catalog or literature, For these products by 12/30/86 or sooner.

<u>DESCRIPTION</u>		<u>1987 FORECAST</u>
<u>ASBESTOS WHITE FIBER</u>	DENISON, TX	STOCKTON, CA.
4T GRADE	2,510 ST	3,250 ST
5R GRADE	350 ST	480 ST
<u>ASBESTOS BLUE FIBER</u>		
WMS-6	694 ST	1,400 ST
WML-6	347 ST	482 ST

If there are any questions regarding the above items, please feel free to call me anytime.

Sincerely,


Paul Huang,
Purchasing Manager

PH/js

enclosures

JMM 00000243

EASYLINK MBX 1478984C001 30DEC86 17:22/16:48 EST
FROM: 5106002047 SPECIAL3Z MIL
9102623106 SPECIAL3Z MIL
SPECIAL SHIPPING INC
TO: 62933224 VIA: 359491

TO: P HUANG/JM A/C PIPE CORP.
FM: P TRETIN/BRAKEGATE
M387 12/30/86

QUOTATION: C&G/5 CHRYSOTILE ASBESTOS

WE ARE PLEASED TO QUOTE THE FOL EFFECTIVE 12/30/86:

PRICES FOB AFRICA:
GRADE C&G/5 (4T) USD 388.00/METRIC TON (2,205 LBS.)

FREIGHT: USD 118.00/MT (2,205 LBS.) FOR DELIVERY TO DENISON, TX
FREIGHT COST SUBJECT TO CHANGE WITHOUT NOTICE. EXCLUDES
CARGO INSURANCE, CUSTOMS ENTRY, BROKER'S FEES, LOCAL DUTIES
AND TAXES. FRT WILL BE BILLED BY SPECIAL SHIPPING, INC. AS
IN PAST.

TERMS: NET 30 DAYS ON FIBER BILLED BY MINERALS MARKETING CORP.
OF ZIMBABWE AS AGENTS FOR SHABANIE & MASHABA MINES (PVT.) LTD.
PACKAGING: 50 KGS/POLYWOVEN BAGS; PRESSURE PACKED AND PALLETIZED
ON 2-WAY 48"X39" PALLETS; 8 PALLETS, 8 SLIP SHEETS;
17.5 METRIC TONS/CONT.

SCHEDULING: SAILINGS EVERY 4-6 WEEKS.

PER ABOVE TOTAL ON C&G/5 TO DENISON, TX USD 506.00/MT ($519\frac{1}{2}/ST$)

ORDERS TO: MINERALS MARKETING CORP OF ZIMBABWE LTD.C/O P.O. BOX
14095, WEST ALLIS, WI 53214, U.S.A.

IF ANY QUESTIONS, PLS ADVISE.
BEST REGARDS
BRAKEGATE LTD.

TO: P HUANG/JM A/C PIPE CORP.
FM: B HEERING/BRAKEGATE LTD.
M388 12/30/86
SUBJ: BLUE ASBESTOS FIBER PRICES

WE ARE PLEASED TO QUOTE THE FOL UNCHANGED PRICES:

GRADE	USD/MT FOB MINE FREIGHT DENISON, TX	PREPAID AND ALLOWED RICHMOND, CA
WML-6	629.50 ($511\frac{1}{2}/ST$)	652.50 ($512\frac{1}{2}/ST$)

WMS-6	572.00 ($519\frac{1}{2}/ST$)	595.00 ($521\frac{1}{2}/ST$)
-------	--------------------------------	--------------------------------

PRICES: PER METRIC TON FOR MINE FREIGHT PREPAID AND ALLOWED.
CARGO INSURANCE, CUSTOMS ENTRY, LOCAL DUTIES AND TAXES,
DEMURRAGE, ETC., ARE FOR BUYER'S ACCOUNT. PRICES ARE SUBJECT
TO CHANGE WITHOUT NOTICE.

TERMS: SIXTY (60) DAYS FROM INVOICE DATE, BACKED BY STANDBY
IRREVOCABLE L/C CONFIRMED BY A U.S. BANK. PAYMENT TO BRAKE-
GATE LTD., MARINE BANK, N.A., INT'L DEPT., INT'L TELLER,
P.O. BOX 975, MILWAUKEE, WI 53201 U.S.A.

INSURANCE: CARGO INSURANCE WILL BE COVERED UNDER GROUP POLICY
AND WILL BE ADDED TO INVOICE AT COST. PRESENT CHARGE APPROX.
USD 23.00/CONTAINER.

PACKAGING: 50 KGS/POLYWOVEN BAG, BALED AND BANDED, 1800 KGS/PALLET
17.4 MT/CONT.

SCHEDULING: SAILING EVERY 4-6 WEEKS.

ORDERS TO: BRAKEGATE LTD., P.O. BOX 14095, WEST ALLIS, WI 53214
BST RGDS
BRAKEGATE LTD.

P.S. ABOVE QUOTES BASED ON ASSUMPTION OF NO OCEAN FREIGHT INCREASE
1/1/87. QUOTES WILL BE CONFIRMED ASAP.

NNNN

JMM 00000244

YOUR MAILBOX IS NOW EMPTY

1051 SPERRY ROAD
STOCKTON, CA 95206
(209) 982-1800

Vendor (Name & Address)

Delivery Charges	Show This No. On Invoice.
AS RELEASED	E-L and Exch. Packings.
Invoice No.	Invoice No.
01-30-87	JH 70029

BILL TO STOCKTON, CA. HQ A/P	FROM PLANT ☒ DEST. ☐ ☐ CHARGE ☐ ALLOWED ☐ COLLECT ☒	Taxable _____ %
SHIP VIA TRUCK	H30	Tax Exempt ☒

Item	Quantity	Unit	Description	Unit Price	Extension
			BLANKET ORDER FOR RECORD AND BILLING PURPOSES ONLY TO COVER OUR PARTIAL REQUIREMENT OF 01-01-87 TO 12-31-87.		
			ASBESTOS FIBER 4 T GRADE	\$416.50/ST	
			ASBESTOS FIBER 5 R GRADE	\$316.50/ST	
			IF EPA OR ANY OTHER GOVERNMENT AGENCIES BANNED A/C PIPE IN THE USA, ALL SUPPLIER'S D FIBER IN OUR STOCKTON, CA. PLANT WAREHOUSE MAY BE RETURNED FOR FULL CREDIT AND FREIGHT WILL BE NEGOTIATED BY BOTH PARTIES. MATERIALS TO BE SUPPLIED WILL BE PACKED WITH SHRINK-WRAPPED UNIT.		
			AUTHORIZED J-M CONTACT. D. W. WILKINSON UPON RECEIVING BLANKET ORDER, SUPPLIER IS TO SEND CONFIRMED ORDER BACK.		

JMM 00000245

JMM 00000245

1. Please furnish, subject to the conditions appearing on reverse side of this order.
2. Material sold at the delivered prices or freight allowed must be shipped prepaid. No parcel post or insurance charges allowed except as provided above.
3. Mail invoice in duplicate & B/L on date of shipment.

By **PAUL HUANG**

PURCHASING AGENT

Purchase Requisition

P.R. No.	Contract Number
H 3264	01/0022
Project Name	Project No.
Package, etc.)	Deliver to:
CA.	STK, CA.
Project Description	Project Remarks
Project Start Date	Project End Date
Project Budget	Project Status
Project Manager	Project Sponsor
Project Owner	Project Stakeholder
Project No. (w/o No)	Charge Code/Cost Center

Receiving			Date	Qty	Unit	Complete Description	Unit Price	Extension
C	B	A						
						BLANKET ORDER FOR RECORD AND BILLING PURPOSES ONLY TO COVER OUR PART OF 1/1/87 TO 12/31/87.		
						ASBESTOS FIBER 4T GRADE " " 5R GRADE	\$	
						IF EPA OR ANY OTHER GOVERNMENT AGENCIES BANNED A/C PIPE IN THE USA FIBER IN OUR STOCKTON, CA. PLANT WAREHOUSE MAY BE RETURNED FOR FULL PRICE WILL BE NEGOTIATED BY BOTH PARTIES. MATERIALS TO BE SUPPLIED WITH WRAPPED UNIT.		
						AUTHORIZED JM CONTACT: D.W. WILKINSON UPON RECEIVING BLANKET ORDER, SUPPLIER IS TO SEND CONFIRMED ORDER BACK		
							Total	

	President	V.P.	Manager	Section Head
Date Received	APPROVAL			
Partial or Complete				
Received By				

JMM 00000246

JMM 00000246

(Purchasing fill out Shaded areas)

PAUL HUANG
Purchasing Department

PURCHASING

RECEIVED DEC 30 1986

[Handwritten signature]



December 29, 1986

Mr. Paul Huang, Purchasing Manager
J-M Manufacturing Company, Inc.
1051 Sperry Road
Stockton, California 95206

RE: Your Request for Quotation - December 5, 1986

Dear Paul,

I have made my annual pre-Christmas trip to the East Coast and have been advised that even though some Canadian mills have talked about raising 4T and 5R prices, they have not done so, and have maintained 1986 prices through March 1987.

We appreciate the opportunity to serve you with your fiber requirements and would maintain the same prices for 1987 as we have had for 1986. That is:

<u>Stockton</u> -	4T - \$460/S.T., FOB Mill
	5R - 340/S.T., FOB Mill
<u>Denison</u> -	4T - \$390/S.T., FOB Mill
	5R - 300/S.T., FOB Mill

\$416.50 / \$316.50 } for G. Coats on 1/27

[Handwritten signature]

As discussed with you on December 18, 1986, we regret that we will be unable to ship to Denison until May 1987. After that time, we should be back on our normal schedule.

We look forward to working with you in 1987.

Yours,

CALAVERAS NATURAL RESOURCES, INC.
General Partner

[Handwritten signature]
Gordon A. Coats
President

GAC:tc

JMM 00000247



J-M Manufacturing Company, Inc.

1051 Sperry Road, Stockton, California 95206 • Tel.: (209) 982-1500 • Telex: 359491 • Telecopier: (209) 465-8184

December 5, 1986

[REDACTED]
Attn: Gordon A. Coats
(209) 785-2201

Re: Request for Quotation, 1987

Dear Gordon,

Below you will find a list of our raw materials, additives, and/or operating supplies with our forecast requirements for the year 1987

Please refer to our purchase specification as attached for your reference.

Also, please submit the quotation, with your catalog or literature, for these products by 12/30/86 or sooner.

DESCRIPTION

1987 FORECAST

ASBESTOS WHITE FIBER

DENISON, TX

4T GRADE

2,510 ST

3,250 ST

SR GRADE

350 ST

480 ST

If there are any questions regarding the above items, please feel free to call me anytime.

Sincerely,

Paul Huang,
Purchasing Manager

PH/js

enclosures

JMM 00000248

TEL : (514) 281-0141

EASTERN CHEN TRADING CO., LTD.
LES ENTREPRISES DE L'ORIENT CHEN CO., LTÉE
1117 Ste-Catherine St. West, Suite 603
Montreal, Quebec, Canada H3B 1H9

RECEIVED OCT 13 1987

September 30, 1987

Mr. Paul Huang
JM Manufacturing Co. Inc.
1051 Sperry Road
Stockton, CA.
95206

Beth / Cathy:
7/2
Jul 13

Dear Mr. Huang:

Kindly be advised of our relocation of office
effective October 1, 1987.

Mailing address: P.O.Box 991, Stn. A
Montreal, Quebec
H3C 2W9 CANADA

Tel: (514) 695-8997

Telex: 05-822634

Sincerely yours,

T.Y. Chen
T.Y. Chen

TYC/bj

JMM 00000249

RECEIVED JUL - 6 1987 LAB CHRYOSOTILE, INC. 835 MOONEY C.P. 459 THETFORD-MINES, QC. TEL: (418) 338-7500 TÉLEX: 05-833586 CANADA G6G 5T5		NO DE NOTRE COMMANDE OUR ORDER NO. 41-1737-87	
DESTINATAIRE - CONSIGNEE J.M. A/C PIPE CORPORATION HIGHWAY 75 NORTH DENISON, TEXAS 75020		DATE BREVETÉ - DATE BROSEED JUNE 25/87 DELIVER WK JULY 27/87	
VENDEU A - SOLD TO J.M. A/C PIPE CORPORATION 1051 SPERRY ROAD STOCKTON, CALIFORNIA 95206		REF. DE CLIENT - CUSL. REF. RD 70067 RECEIVED JUL - 2 1987	
TRANSPORTEUR LOCAL CARRIER RC		NO DE CLIENT - CUSL. NO. 5070	
LIEU DE DÉPART - POINT OF ORIGIN BLACK LAKE		AGENTS EN DOUANES ET PORT - CUSTOMS BROKER AND PORT F.W. MYERS, DETROIT, MICHIGAN	
TRANSPORTEUR EXPORTATEUR/EXPORTING CARRIER RAIL		COURTIER - BROKER EASTERN CHEN TRADING	
BUREAU D'ENTRÉE - PORT OF ENTRY DETROIT, MICH.		INITIALES ET NO DE WAGON CAR INITIALS AND NUMBER BLACK LAKE	
ITINÉRAIRE - ROUTE RC-CP-DETROIT NW-EAST ST. LOUIS-MKT		FAIR - F.O.B. NET 30 DAYS	
PATRON DE CHARGEMENT - LOADING DIAGRAM		VENTE EXPRIMEE EN CURRENCY OF SALE CAN. \$	
VOIXES ET NUMEROS LAB 4T3	QUANTITE COMMENCEE QUANTITY ORDERED 200	DÉSIGNATION DES MARCHANDISES DESCRIPTION OF GOODS CLASSIFICATION - GRADE AMIANTE BLANC - ASBESTOS WHITE 9.1 / UN 2590 / PG 111 TDG - SU - NO SUBJECT TO CONTRACTS NW NSCN 223 AND MKT METRIC TONS ASBESTOS FIBRE 4T3 PRESSURE PACKED LAMINATED WOVEN POLYETHYLENE BAGS	QUANTITE EXPEDIEE QUANTITY SHIPPED SACS BAGS 1000 kg F.O.B. DENISON U.S. \$485.00
INSTRUCTIONS SPECIALES - SPECIAL INSTRUCTIONS LOAD IN 50-FT DE CAR ONLY, UNITS OF 30 BAGS STRETCH WRAPPED. FLOOR UNITS ON DOUBLE SLIP SHEETS AND TOP UNITS ON WOODEN PALLETS. SEND QUALITY CONTROL CERT. TO J.M. A/C PIPE, DENISON, TEXAS. ATT: BONNIE CIACCIO **SHIP WITH 41-1738-87		POIDS BRUT - GROSS WEIGHT PRICE UNITAIRE PAR 1000 kg UNIT PRICE PER 1000 kg MONTANT AMOUNT	
THANK YOU FOR YOUR ORDER. PLEASE CHECK CAREFULLY AND ADVISE AT ONCE IF INCORRECT. OUR AGREEMENT IS GOVERNED THE PROVISIONS PRINTED BELOW AND ON THE REVERSE. THIS ORDER IS NOT SUBJECT TO CANCELLATION. SELLER AND BUYER AGREE THAT SELLER MAKES NO EXPRESS WARRANTIES EXCEPT THOSE SPECIFICALLY STATED IN PARAGRAPH 2 OF THE TERMS AND CONDITIONS OF THIS AGREEMENT WHICH APPEAR ON THE REVERSE SIDE OF THIS DOCUMENT AND MAKES NO IMPLIED WARRANTIES (INCLUDING NO IMPLIED WARRANTY OF MERCHANTABILITY), AND THAT SELLER SHALL BE LIABLE TO BUYER ONLY FOR THOSE DAMAGES SPECIFICALLY STATED IN PARAGRAPH 4 OF THE TERMS AND CONDITIONS. BUYER AGREES TO FOLLOW AND TO PROVIDE IN ACCORDANCE WITH THE TERMS AND CONDITIONS OF THIS AGREEMENT THE HEALTH WARNING ADVICE AND THE INSTRUCTIONS FOR USING AND HANDLING OF ASBESTOS FIBRE REFERRED TO IN PARAGRAPH 1 OF SAID TERMS AND CONDITIONS.		MONTANT AMOUNT FRET FREIGHT FRAIS ADD. OU ESCOMPTES SURCHARGE OR DISCOUNT AGUILLEMENT SWITCHING PALETTES PALLETS BANDES DE PLASTIQUE STRETCH WRAP TOTAL CAN. \$ ÉQUIV. U.S. AT JMM 00000250	

ACCUSÉ DE RÉCEPTION - ACCEPTANCE AND ACKNOWLEDGEMENT (VERSO - SEE REVERSE)

RECEIVED JUL - 8 1987 LAB CHRYSOLE LAB CHRYSOLE, INC. 835 MOONEY C.P. 459 THEFTORD-MINES, OC. TEL: (416) 338-7500 TÉLEX: 05-633586 CANADA G6G 5T5		NO DE NOTRE COMMANDE OUR ORDER NO. 41-1738-87	
DESTINATAIRE - CONSIGNEE J.M. A/C PIPE CORPORATION HIGHWAY 75 NORTH DENISON, TEXAS 75020		DATE REÇUE - DATE RECEIVED JUNE 25/87 REF. DU CLIENT - CLIENT REF. RD 70068 DATE DE FACTURE - INVOICE NO. WK. JULY 27/87 DATE DE FACTURE - INVOICE DATE JUL - 2 1987	
VENDEUR A - SOLD TO J.M. A/C PIPE CORPORATION 1051 SPERRY ROAD STOCKTON, CALIFORNIA 95206		AGENT EN DOUANES ET PORT - CUSTOMS BROKER AND PORT F.W. MYERS, DETROIT, MICHIGAN	
TRANSPORTEUR LOCAL CARRIER LIEU DE DÉPART - POINT OF ORIGIN BLACK LAKE		COUNTRY - BROKER EASTERN CHEN TRADING F.A.B. - F.O.B. BLACK LAKE CONDITIONS - TERMS NET 30 DAYS	
TRANSPORTEUR EXPORTATEUR-EXPORTING CARRIER BUREAU D'ENTRÉE - PORT OF ENTRY DETROIT, MICH.		FREIGHT - FREIGHT PALETTE - PALLET Taux - Rate	
ITINÉRAIRE - ROUTE QC-CP-DETROIT NW-EAST ST-LOUIS MKT		PATRON DE CHARGEMENT - LOADING DIAGRAM VENTE EXPRIÉE EN CURRENCY OF SALE CAN. \$	
MARQUES ET NUMÉROS TRADE MARKS AND NUMBERS LAB 5R3	QUANTITÉ COMMANDEE QUANTITY ORDERED 40	DÉSIGNATION DES MARCHANDISES DESCRIPTION OF GOODS CLASSIFICATION - GRADE AMIANTE BLANC - ASBESTOS WHITE 9.11 UN 2500 / PG 111 TDG - SU - NO SUBJECT TO CONTRACTS N&W NSCN 225 AND MKT METRIC TONS ASBESTOS FIBRE 5R3 PRESSURE PACKED LAMINATED WOVEN POLYETHYLENE BAGS	QUANTITÉ EXPÉDIÉE QUANTITY SHIPPED SACS BAGS 5000 kg F.O.B. DENISON US \$380.00
INSTRUCTIONS SPÉCIALES - SPECIAL INSTRUCTIONS LOAD ON 50-FT DE CAR ONLY. UNITS OF 30 BAGS STRETCH WRAPPED. FLOOR UNITS ON DOUBLE SLIP SHEETS AND TOP UNITS ON WOODEN PALLETES. SEND QUALITY CONTROL CERT. TO J.M. A/C PIPE DENISON, TEXAS. ATT: BONNIE CACCIO *SHIP WITH 41-1737-87		MONTANT AMOUNT FRET FREIGHT FRAIS ADD. OU ESCOMTE SURCHARGE OR DISCOUNT AGUILLEMENT SWITCHING PALETES PALLETES BANDES DE PLASTIQUE STRETCH WRAP N/C	
THINK YOU FOR YOUR ORDER PLEASE CHECK CAREFULLY AND ADVISE AT ONCE IF INCORRECT. OUR AGREEMENT IS GOVERNED BY THE PROVISIONS PRINTED BELOW AND ON THE REVERSE. THIS ORDER IS NOT SUBJECT TO CANCELLATION. SELLER AND BUYER AGREE THAT SELLER MAKES NO EXPRESS WARRANTIES EXCEPT THOSE SPECIFICALLY STATED IN PARAGRAPH 2 OF THE TERMS AND CONDITIONS OF THIS AGREEMENT WHICH APPEAR ON THE REVERSE SIDE OF THIS DOCUMENT AND MAKES NO IMPLIED WARRANTIES (INCLUDING NO IMPLIED WARRANTY OF MERCHANTABILITY) AND THAT SELLER SHALL BE LIABLE TO BUYER ONLY FOR THOSE DAMAGES SPECIFICALLY STATED IN PARAGRAPH 4 OF THE TERMS AND CONDITIONS. BUYER AGREES TO FOLLOW AND TO PROVIDE IN ACCORDANCE WITH THE TERMS AND CONDITIONS OF THIS AGREEMENT THE HEALTH WARNING ADVICE AND THE INSTRUCTIONS FOR USING AND HANDLING OF ASBESTOS FIBRE REFERRED TO IN PARAGRAPH 1 OF SAID TERMS AND CONDITIONS.		TOTAL CAN. \$ EQUIV. U.S. AT JMM 0000251	

ACCUSÉ DE RÉCEPTION - ACCEPTANCE AND ACKNOWLEDGEMENT (VERSO - SEE REVERSE)

1051 SPERRY ROAD
STOCKTON, CA 95208
(209) 982-1500

Vendor (Name & Address)

LAB CHRYSOPTIL, INC.

c/o EASTERN CHEN TRADING CO., LTD.
1117 ST-CATHERINE ST., WEST STE. 603
MONTREAL, QUEBEC, CANADA H3B1H9
ATTN: T. Y. CHEN

AS RELEASED	Show This No. On Invoice. B-L and Each Package. 
01-30-87	JH 70033

J-M MANUFACTURING HIGHWAY 75N DENISON, TX 75020 (214) 465-6390	STOCKTON, CA HQ A/P	PLANT DEST. CHARGE ALLOWED COLLECT	U.S. CANADA	Taxable ____ %
	RAIL	N30		Tax Exempt ☒

Item	Quantity	Unit	Description	Unit Price	Extension
			BLANKET ORDER FOR RECORD & BILLING PURPOSES ONLY TO COVER OUR PARTIAL REQUIREMENT OF 01-01-87 TO 12-31-87.		
			ASBESTOS FIBER 4T3 A0-0003-406	\$485.00/MT	
			ASBESTOS FIBER 5R3 A0-0003-501	\$380.00/MT	
			IF EPA OR ANY OTHER GOVERNMENT AGENCIES BANNED A/C PIPE IN THE USA, ALL SUPPLIER'S FIBER IN OUR STOCKTON, CA. PLANT WAREHOUSE MAY BE RETURNED FOR FULL CREDIT AND FREIGHT WILL BE NEGOTIATED BY BOTH PARTIES. MATERIALS TO BE SUPPLIED WILL BE PACKED WITH SHRINK-WRAPPED UNIT. AUTHORIZED J-M CONTACT: HQ PURCHASING - JEANNINE SIMONIAN (209) 982-1500		

1. Please furnish, subject to the conditions appearing on reverse side of this order.
2. Material sold at the delivered prices or freight allowed must be shipped prepaid. No parcel post or insurance charges allowed except as provided above.
3. Mail invoice in duplicate & B/L on date of shipment.

By PAUL HUANG

PURCHASING AGENT

J-M A/C PIPE CORP.

1051 SPERRY ROAD
STOCKTON, CA 95206
(209) 982-1500

Purchase Requisition

quisition Dept. BLANKET ORDER				Date Prepared 01-28-87	Date Required AS RELEASED	Requisitioned By B. HARRIS	P.R. No. H 9132	P.O. No. (Release No.) JH 70033
Suggested Vendor				Remarks: (Justification, Package, etc.) BILL TO STOCKTON, CA. HQ A/P			Deliver to: DENISON, TEXAS	
Est. Date of Order	Date Ordered	Schedule Delivery	FOB BLACK LAKE, CANADA PEANT DEST CHARGE ALLOWED COLLECT ☒ SP ☐ ☐ ☐ ☐			Est. Freight		
Ordered From: LAM CHREYSOLTILE, INC. c/o EASTERN CHEN TRADING CO., LTD 1117 STE CATHERINE ST. WEST STE. 603 MONTREAL, QUEBEC, CANADA H3B1H9				Ship Via: RAIL		Terms: H30		B.O. No.
				Confirm to: T. Y. CHEN			Charge Code	
				Taxable _____ % ☒ Tax Exempt			Account No.	

Receiving			Item	Qty.	Unit	Complete Description	Unit Price	Extension
C	D	A						
						BLANKET ORDER FOR RECORD & BILLING PURPOSES ONLY		
						TO COVER OUR PARTIAL REQUIREMENT OF 01-01-87		
						TO 12-31-87		
				1		ASBESTOS FIBER 4T3	\$485.00/MT	
				2		ASBESTOS FIBER 5R3	\$380.00/MT	
						IF EPA OR ANY OTHER GOVERNMENT AGENCIES		
						BANNED A/C PIPE IN THE USA, ALL SUPPLIER'S		
						FIBER IN OUR STOCKTON, CA. PLANT WARE-		
						HOUSE MAY BE RETURNED FOR FULL CREDIT &		
						FREIGHT WILL BE NEGOTIATED BY BOTH PARTIES.		
						MATERIALS TO BE SUPPLIED WILL BE PACKED		
						WITH SHRINK-WRAPPED UNIT.		
						AUTHORIZED JH CONTACT: HQ PURCHASING		
						JEANNINE SIMONIAN (209) 982-1500		
						UPON RECEIVING BLANKET ORDER, SUPPLIER		
						IS TO SEND CONFIRMED ORDER BACK.		
						Total		

Date Received	APPROVAL	President	V.P.	Manager	Section Head
Partial or Complete					
Received By					

JMM 00000253

(Purchasing fill out Shaded areas)

PAUL HUANG

Purchasing Department

PURCHASING



J-M Manufacturing Company, Inc.

1051 Sperry Road, Stockton, California 95206 • Tel.: (209) 982-1500 • Telex: 359491 • Telecopier: (209) 465-8184

December 5, 1986

Eastern Chen Trading Co. Ltd.
1117 Suite
603 Saint Catherine West
Montreal, Que. Canada H3B 1H9
Attn: T.Y. Chen
(514) 281-0141

Re: Request for Quotation, 1987

Dear Mr. Chen,

Below you will find a list of our raw materials, additives, and/or operating supplies with our forecast requirements for the year 1987

Please refer to our purchase specification as attached for your reference.

Also, please submit the quotation, with your catalog or literature, For these products by 12/30/86 or sooner.

DESCRIPTION

1987 FORECAST

ASBESTOS WHITE FIBER

DENISON, TX

STOCKTON, CA.

4T GRADE

2,510 ST

3,250 ST

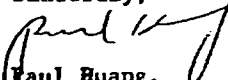
5R GRADE

350 ST

480 ST

If there are any questions regarding the above items, please feel free to call me anytime.

Sincerely,


Paul Huang,
Purchasing Manager

PH/js

enclosures

JMM 00000254

RECEIVED JAN 27 1987

TEL: (514) 281-0141

EASTERN CHEN TRADING CO., LTD.
LES ENTREPRISES DE L'ORIENT CHEN CO., LTÉE
1117 Ste-Catherine St. West, Suite 603
Montreal, Quebec, Canada H3B 1H9

January 22, 1987

*File w/ P.O.
Lab % Eastern Chen*

J-M Manufacturing Co. Inc.
1051 Sperry Road
Stockton, CA.
95206 U.S.A.

[Handwritten signature]

Attn: Mr. Paul Huang

Dear Mr. Huang:

Following our telephone conversation of today, we wish to confirm that effective January 26, 1987 (on release basis), our price for asbestos fiber grade 4T3; delivered to Denison, Tx. shall be US\$485.00/ M.T.

This price is good through 1987, and is subject to quantity mentioned in your inquiry letter of December 5, 1986.

Trusting the above is to your approval, we remain,

Sincerely yours,

[Handwritten signature]

T.Y. Chen

TYC/bj

JMM 00000255



CASSIAR MINING CORPORATION

2000 - 1055 WEST HASTINGS STREET, VANCOUVER, B.C., CANADA V6E 3V3

TELEPHONE: (604) 688-2571
TELEX: 04-508664
TELECOPIER: (604) 688-4769

December 30th, 1986

J. M. Manufacturing Company Inc.
1051 Sperry Road
Stockton, California
U.S.A. 95206

Attention: Mr. Paul Huang
Purchasing Manager

Dear Sirs:

Re: Request for Quotation - 1987

In response to your above mentioned request, we are pleased to offer the following prices F.O.B. truck, railcar, container North Vancouver, British Columbia per metric tonne:

4T Grade - Cassiar AX - US \$420.00
5R Grade - Cassiar AY - US \$310.00

STK, CA 02N, TX
470/MT (420.5/ST) 513.5/MT (468.2/ST)
360/MT (328.2/ST) 407.5/MT (368.5/ST)

Although not requested in your request for quotation, we are pleased to offer Cassiar AK Grade as premium pipe grade fibre which can be used in conjunction with or a replacement for crocidolite (Blue) fibre.

AK Grade - US \$520.00

570/MT (517.2/ST) 613.8/MT (557.2/ST)

We have investigated the freight costs to both Stockton and Denison and to date arrived at the following:

Stockton, California

1. Piggyback truck with rail US \$110.00 per truck carrying 20 metric tonnes = US \$55 per tonne. (~~500/MT~~ Van truck is not acceptable by STK).
2. Ocean container via port of San Francisco, \$1100 per container, 18 metric tonnes per container = US \$61 per tonne.

We can physically load 20 metric tonnes per container but we are advised that, at this time, the shipping company does not have the on-carrying capability of 20 metric tonnes in a container. Once we/they have found this capability, the rate would become US \$55 per tonne.

JMM 00000256

18-MT * sea freight \$890/cont. flat rate
210 inland freight the best rate
1100/18MT = \$61/MT...12
1100/20MT = \$55/MT



Page 2

Denison, Texas

1. Rail shipping 60 metric tonnes per railcar = US \$93.80 per tonne.

Should we be successful in obtaining some business with you, we will endeavour to improve the freight rate costs to the above locations. We believe this will be possible utilizing the deregulation factor within the U.S. rail system.

In all cases if wooden pallets are required, please add US \$3.50 per tonne.

All units contain 20 woven polyethylene bags weighing 50 kgs each net. All units are shrink wrapped on all sides with polyethylene plastic.

Material safety data sheets can be supplied on request.

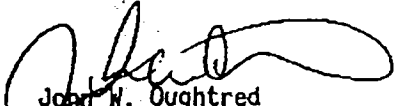
Attached are our typical test data sheets for our grades offered above.

Company brochures will be forwarded by mail.

If there are any questions, please do not hesitate to contact the undersigned.

Yours truly,

CASSIAR MINING CORPORATION


John W. Oughtred
Vice President, Marketing

JWO/st
Attachments

JMM 00000257



J-M Manufacturing Company, Inc.

1051 Sperry Road, Stockton, California 95206 • Tel.: (209) 982-1500 • Telex: 359491 • Telecopier: (209) 465-8184

December 5, 1986

J M Asbestos Sales Inc.
2000 Peel St.
Suite 750
Montreal, Quebec H3A 2W5
(514) 288-5917
Attn: Gerard Hughes

Re: Request for Quotation, 1987

Dear Mr. Hughes,
Below you will find a list of our raw materials, additives, and/or
operating supplies with our forecast requirements for the year 1987

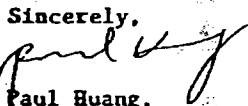
Please refer to our purchase specification as attached for your
reference.

Also, please submit the quotation, with your catalog or literature,
For these products by 12/30/86 or sooner.

<u>DESCRIPTION</u>	<u>1987 FORECAST</u>	
<u>ASBESTOS WHITE FIBER</u>	DENISON, TX	STOCKTON, CA.
4T GRADE	2,510 ST	3,250 ST
5R GRADE	350 ST	480 ST

If there are any questions regarding the above items, please feel free
to call me anytime.

Sincerely,


Paul Huang,
Purchasing Manager

PH/js

enclosures

JMM 00000258

RECEIVED JAN 02 1987



CASSIAR MINING CORPORATION

2000 - 1055 WEST HASTINGS STREET, VANCOUVER, B.C., CANADA V6E 3V3

TELEPHONE: (604) 688-2511
TELEX: 04-508664
TELECOPIER: (604) 688-4769

December 30th, 1986

J. M. Manufacturing Company Inc.
1051 Sperry Road
Stockton, California
U.S.A. 95206

Attention: Mr. Paul Huang
Purchasing Manager

Dear Sirs:

Re: Request for Quotation - 1987

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4T Grade - Cassiar AX - US \$420.00
5R Grade - Cassiar AY - US \$310.00

Although not requested in your request for quotation, we are pleased to offer Cassiar AK Grade as premium pipe grade fibre which can be used in conjunction with or a replacement for crocidolite (Blue) fibre.

AK Grade - US \$520.00

We have investigated the freight costs to both Stockton and Denison and to date have arrived at the following:

Stockton, California

1. Piggyback truck with rail US \$1000 per truck carrying 20 metric tonnes = US \$50 per tonne.
2. Ocean container via port of San Francisco, \$1100 per container, 18 metric tonnes per container = US \$61 per tonne.

We can physically load 20 metric tonnes per container but we are advised that, at this time, the shipping company does not have the on-carrying capability of 20 metric tonnes in a container. Once we/they have found this capability, this rate would become US \$55 per tonne.

JMM 00000259



Denison, Texas

1. Rail shipping 60 metric tonnes per railcar = US \$93.80 per tonne.

Should we be successful in obtaining some business with you, we will endeavour to improve the freight rate costs to the above locations. We believe this will be possible utilizing the deregulation factor within the U.S. rail system.

In all cases if wooden pallets are required, please add US \$3.50 per tonne.

All units contain 20 woven polyethylene bags weighing 50 kgs each net. All units are shrink wrapped on all sides with polyethylene plastic.

Material safety data sheets can be supplied on request.

Attached are our typical test data sheets for our grades offered above.

Company brochures will be forwarded by mail.

If there are any questions, please do not hesitate to contact the undersigned.

Yours truly,

CASSIAR MINING CORPORATION


Joan W. Oughtred
Vice President, Marketing

JWO/st
Attachments



CASSIAR MINING CORPORATION

2000 - 1055 WEST HASTINGS STREET, VANCOUVER, B.C., CANADA V6E 3V3

TELEPHONE: (604) 688-2511

TELEX: 04-500664

TELECOPIER: (604) 688-4769

FIBRE DATA SHEET

<u>GRADE AK</u>	<u>- CEMENT GRADE</u>	<u>- TYPICAL LABORATORY TEST RESULTS</u>
1. <u>Dry Tests:</u>		
	Quebec Standard	Box 1 = 2.5 ozs Box 2 = 10.5 Box 3 = 2.4 Box 4 = 0.6
	Modified Suter Webb	Average Length = 0.21" Cumulative + 1/2" = 5% + 1/16" = 30%
	Magnetic Rating	= 1.05
	Surface Area	"AK" = 5 000 cm ² /gm "AK60" = 6 000 cm ² /gm
2. <u>Wet Classification:</u>		
	Bauer McNett	4 m = 34% 14 m = 26 35 m = 10 200 m = 8 - 200 m = 22
	T & N Classifier	7 mm = 32% 14 m = 16 25 m = 13 50 m = 9 200 m = 10 - 200 m = 20
	Grade Factor	= 120
	Freeness	= 20 seconds
	Fibre Strength Unit	= 140
	T & N Elutriator:	Crude = 27% Partly open = 15%

Test procedures are as approved by the Quebec Asbestos Mining Association.
Data show average typical test results obtained over a period of years and are
subject to minor change due to mining and milling variations.

JMM 00000261



CASSIAR MINING CORPORATION

2000 - 1055 WEST HASTINGS STREET, VANCOUVER, B.C., CANADA V6E 3V3

TELEPHONE: (604) 688-2511

TELEX: 04-508664

TELECOPIER: (604) 688-4769

FIBRE DATA SHEET

GRADE AX - CEMENT GRADE - TYPICAL LABORATORY TEST RESULTS

1. Dry Tests:

Quebec Standard	Box 1	=	nil
	Box 2	=	3.2 ozs
	Box 3	=	9.2
	Box 4	=	3.6
Magnetic Rating		=	1.45
Surface Area	"AX"	=	4 500 cm ² /gm

2. Wet Classification:

Bauer McNett	4 m	=	7%
	14 m	=	32
	35 m	=	24
	200 m	=	12
	- 200 m	=	25
T & N Classifier	7 mm	=	3%
	14 m	=	14
	25 m	=	31
	50 m	=	20
	200 m	=	11
	- 200 m	=	21
Grade Factor		=	85
Freeness		=	45 seconds
Fibre Strength Unit		=	119
T & N Elutriator:	Crude	=	34%
	Partly open	=	20%

Test procedures are as approved by the Quebec Asbestos Mining Association.
Data show average typical test results obtained over a period of years and are
subject to minor change due to mining and milling variations.

JMM 00000262



CASSIAR MINING CORPORATION

2000 - 1055 WEST HASTINGS STREET, VANCOUVER, B.C., CANADA V6E 3V3

TELEPHONE: (604) 688-2571

TELEX: 04-508664

TELECOPIER: (604) 688-4769

FIBRE DATA SHEET

GRADE AY - CEMENT GRADE - TYPICAL LABORATORY TEST RESULTS

1. Dry Tests:

Quebec Standard	Box 1	=	nil
	Box 2	=	0.6 ozs
	Box 3	=	11.8
	Box 4	=	3.6
Magnetic Rating		=	1.80
Surface Area	"AY"	=	6 000 cm ² /gm

2. Wet Classification:

Bauer McNett	4 m	=	3%
	14 m	=	12
	35 m	=	29
	200 m	=	20
	- 200 m	=	36
T & N Classifier	7 mm	=	Trace
	14 m	=	3%
	25 m	=	14
	50 m	=	30
	200 m	=	23
	- 200 m	=	30
Grade Factor		=	58
Freeness		=	104 seconds
Fibre Strength Unit		=	101
T & N Elutriator:	Crude	=	17%
	Partly open	=	15%

Test procedures are as approved by the Quebec Asbestos Mining Association.
Data show average typical test results obtained over a period of years and are
subject to minor change due to mining and milling variations.

JMM 00000263



CASSIAR MINING CORPORATION

2000 - 1055 WEST HASTINGS STREET, VANCOUVER, B.C., CANADA V6E 3V3

TELEPHONE: (604) 688-2511

TELEX: 04-508664

TELECOPIER: (604) 688-4769

FIBRE DATA SHEET

GRADE AX - CEMENT GRADE - TYPICAL LABORATORY TEST RESULTS

1. Dry Tests:

Quebec Standard	Box 1	=	nil
	Box 2	=	3.2 ozs
	Box 3	=	9.2
	Box 4	=	3.6
Magnetic Rating		=	1.45
Surface Area	"AX"	=	4 500 cm ² /gm

2. Wet Classification:

Bauer McNett	4 m	=	7%
	14 m	=	32
	35 m	=	24
	200 m	=	12
	- 200 m	=	25
T & N Classifier	7 mm	=	3%
	14 m	=	14
	25 m	=	31
	50 m	=	20
	200 m	=	11
	- 200 m	=	21
Grade Factor		=	85
Freeness		=	45 seconds
Fibre Strength Unit		=	119
T & N Elutriator:	Crude	=	34%
	Partly open	=	20%

Test procedures are as approved by the Quebec Asbestos Mining Association.
Data show average typical test results obtained over a period of years and are
subject to minor change due to mining and milling variations.

JMM 00000264



CASSIAR MINING CORPORATION

2000 - 1055 WEST HASTINGS STREET, VANCOUVER, B.C., CANADA V6E 3V3

TELEPHONE: (604) 688-2511

TELEX: 04-508664

TELECOPIER: (604) 688-4769

FIBRE DATA SHEET

GRADE AY - CEMENT GRADE - TYPICAL LABORATORY TEST RESULTS

1. Dry Tests:

Quebec Standard	Box 1	=	nil
	Box 2	=	0.6 ozs
	Box 3	=	11.9
	Box 4	=	3.6
Magnetic Rating		=	1.80
Surface Area	"AY"	=	6 000 cm ² /gm

2. Wet Classification:

Bauer McNett	4 m	=	38
	14 m	=	12
	35 m	=	29
	200 m	=	20
	- 200 m	=	36
T & N Classifier	7 mm	=	Trace
	14 m	=	38
	25 m	=	14
	50 m	=	30
	200 m	=	23
	- 200 m	=	30
Grade Factor		=	58
Freeeness		=	104 seconds
Fibre Strength Unit		=	101
T & N Elutriator:	Crude	=	17%
	Partly open	=	15%

Test procedures are as approved by the Quebec Asbestos Mining Association.
Data show average typical test results obtained over a period of years and are
subject to minor change due to mining and milling variations.

JMM 00000265



CASSIAR MINING CORPORATION

2000 - 1033 WEST HASTINGS STREET, VANCOUVER, B.C., CANADA V6E 3V3

TELEPHONE: (604) 688-2511

TELEX: 04-308664

TELECOPIER: (604) 688-4769

FIBRE DATA SHEET

<u>GRADE AK</u>	<u>- CEMENT GRADE</u>	<u>- TYPICAL LABORATORY TEST RESULTS</u>
1. <u>Dry Tests:</u>		
	Quebec Standard	Box 1 = 2.5 ozs Box 2 = 10.5 Box 3 = 2.4 Box 4 = 0.6
	Modified Suter Webb	Average Length = 0.21" Cumulative + 1/2" = 5% + 1/16" = 30%
	Magnetic Rating	= 1.05
	Surface Area	"AK" = 5 000 cm ² /gm "AK60" = 6 000 cm ² /gm
2. <u>Wet Classification:</u>		
	Bauer McNett	4 m = 34% 14 m = 26 35 m = 10 200 m = 8 - 200 m = 22
	T & N Classifier	7 mm = 32% 14 m = 16 25 m = 13 50 m = 9 200 m = 10 - 200 m = 20
	Grade Factor	= 120
	Freeness	= 20 seconds
	Fibre Strength Unit	= 140
	T & N Elutriator:	Crude = 27% Partly open = 15%

JMM 00000266

Test procedures are as approved by the Quebec Asbestos Mining Association.
Data show average typical test results obtained over a period of years and are
subject to minor change due to mining and milling variations.



J-M Manufacturing Company, Inc.

1051 Sperry Road, Stockton, California 95206 • Tel.: (209) 982-1500 • Telex: 359491 • Telecopier: (209) 465-8184

December 16, 1986

Cassiar Mining Corp.
2000-1055 West Hastings St.
Vancouver, B.C., Canada V6E 3V3
(604) 688-2511
Attn: John W. Oughtred

Re: Request for Quotation, 1987

Dear Mr. Oughtred,
Below you will find a list of our raw materials, additives, and/or
operating supplies with our forecast requirements for the year 1987

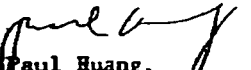
Please refer to our purchase specification as attached for your
reference.

Also, please submit the quotation, with your catalog or literature,
For these products by 12/30/86 or sooner.

<u>DESCRIPTION</u>	<u>1987 FORECAST</u>	
<u>ASBESTOS WHITE FIBER</u>	<u>DENISON, TX</u>	<u>STOCKTON, CA.</u>
4T GRADE	2,510 ST	3,250 ST.
SR GRADE	350 ST	480 ST.

If there are any questions regarding the above items, please feel free
to call me anytime.

Sincerely,


Paul Huang,
Purchasing Manager

PH/js

enclosures

JMM 00000267

**J-M Manufacturing
Company, Inc.**

1051 Sperry Road
Stockton, California 95206
209 982-1500

Western District

May 10, 1983

Dear Distributor:

NOTICE

NEW STANDARD TERMS AND CONDITIONS OF SALE:

Price Protection: for job site deliveries you will have 30 days to place an order after the date of an announced price increase at the old price page. Shipments based upon the old price page must be made within 60 days after the price increase date. Shipments after this 60 day price protection period are subject to a 10% price escalation in each succeeding 60 day period. For shipments to distributors stock the price will be the price in effect at the time of shipment.

TERMS OF PAYMENT:

Effective June 1, 1983 our terms of payment will be changed as follows:

Two percent (2%) ten days, net 45 days from the date of shipment for all customers. This cash discount will apply to the net material value after deducting transportation, but before additions or deductions for taxes, special packaging or other charges.

THIS WILL SERVE AS YOUR FORMAL NOTICE OF THESE CHANGES IN OUR STANDARD TERMS AND CONDITION OF SALE WHICH ARE PART OF YOUR CURRENT DISTRIBUTOR AGREEMENT.

It is anticipated that most of our major competitors will be changing to terms similar as outlined above.

Sincerely,

J-M MANUFACTURING COMPANY, INC.

John K. Bogart

John K. Bogart
District Sales Manager
Western District

JMM 00000268

JKB/mdm

April 14, 1983

RE: PRICE INCREASE "TRANSITE" PRESSURE PIPE (9510)

Dear Distributors:

Effective May 15, 1983, we are raising our prices on the above product an average of 5%. Attached are your new distributor cost sheets to reflect this new price. Prior to May 15, 1983, we will be sending you a new set of suggested resale price pages that will cover accessories and other items. In the meantime continue to use your current suggested resale price pages less the discount of 25-27%. If you have any quotations out at our current published distributor net truckload prices they will continue to be price protected per our standard terms and conditions of sale.

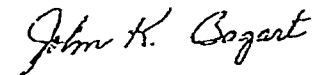
Please coordinate with your local sales representative to increase your inventories of short lengths and other accessory items prior to anticipated high demand come May, June and July. To service your requirements we need to know now those items which you will be ordering so that we do not spend precious machine time making items that will only set in our inventory.

If you have any questions about this price increase please contact your local sales representative or the Stockton Customer Service Center.

It's nice to see the sunshine, particularly when it appears that business levels were on the verge of increasing dramatically.

Sincerely,

J-M MANUFACTURING COMPANY, INC.



John K. Bogart
District Sales Manager

Attachment: DISTRIBUTOR NET T/L COST
Effective May 15, 1983

JMM 00000269

**J-M Manufacturing
Company, Inc.**

Western District

ZONE 1-W

EFFECTIVE: May 15, 1983

TRANSITE (9510)

CLASS 100/150/200

DIRECT SALE PRICES

	<u>CLASS 100</u>	<u>CLASS 150</u>	<u>CLASS 200</u>
4"	2.39	2.23	2.80
6"	3.10	3.00	3.87
8"	4.60	4.88	5.48
10"	5.78	7.20	8.78
12"	7.60	9.67	11.29
14"	9.72	12.27	13.65
16"	12.43	15.54	17.67
16" (With Tuff-Link Couplings)		15.54	17.67

JMM 00000270

**J-M Manufacturing
Company, Inc.**

Western District

ZONES 1-W & 4-W

EFFECTIVE: May 15, 1983

TRANSITE (9510)

CLASS 100/150/200

DISTRIBUTOR NET T/L COST

	<u>CLASS 100</u>	<u>CLASS 150</u>	<u>CLASS 200</u>
4"	2.15	2.01	2.52
6"	2.79	2.70	3.48
8"	4.14	4.39	4.93
10"	5.20	6.48	7.90
12"	6.84	8.70	10.16
14"	8.75	11.05	12.29
16"	11.19	13.99	15.90
16" (With Tuff-Link Couplings)		(13.99)	(15.90)

Accessories: Use existing Suggested Resale - Less 25 - 2%

JMM 00000271

TRANSITE (9510)
CLASS 100/150/200
DISTRIBUTOR NET T/L COST

WITHIN WESTERN DISTRICT

ZONE 3-W

	<u>CLASS 100</u>	<u>CLASS 150</u>	<u>CLASS 200</u>
4"	2.15	1.91	2.52
6"	2.79	2.57	3.48
8"	4.14	4.17	4.93
10"	5.20	6.48	7.90
12"	6.84	8.70	10.16
14"	8.75	11.05	12.29
16"	11.19	13.99	15.90
16" (WITH TUFF-LINK COUPLINGS)		(13.99)	(15.90)

SHORT LENGTH ALLOWANCE: Remains unchanged from special
sheet effective July 1, 1981

J-M Manufacturing
Company, Inc.

Effective: May 15, 1983

TRANSITE (9510)
CLASS 100/150/200
DISTRIBUTOR NET T/L COST

WITHIN WESTERN DISTRICT

ZONE 3-W

	<u>CLASS 100</u>	<u>CLASS 150</u>	<u>CLASS 200</u>
4"	2.15	1.91	2.52
6"	2.79	2.57	3.48
8"	4.14	4.17	4.93
10"	5.20	6.48	7.90
12"	6.84	8.70	10.16
14"	8.75	11.05	12.29
16"	11.19	13.99	15.90
16" (WITH TUFF-LINK COUPLINGS)		(13.99)	(15.90)

SHORT LENGTH ALLOWANCE: Remains unchanged from special
sheet effective July 1, 1981

JMM 00000273

Material Safety Data Sheet

Required under USDL Safety and Health Regulations
for Shipyard Employment (29 CFR 1915)

U.S. Department of Labor

Occupational Safety and Health Administration



OMB No. 1218-0074
Expiration Date 05/31/86

Section I

Manufacturer's Name

Emergency Telephone Number

LAC D'AMIANTE DU QUEBEC, LTEE

Address (Number, Street, City, State, and ZIP Code)

P.O. Box 608

Chemical Name
and Synonyms

Hydrated Magnesium Silicate

Trade Name
and Synonyms

Chrysotile asbestos fibre

Black Lake, Québec, Canada

Chemical Family

Serpentine
Mineral Group

Formula

3MgO-2SiO₂-2H₂O

Section II - Hazardous Ingredients

Paints, Preservatives, and Solvents

% TLV (Units) Alloys and Metallic Coatings

% TLV (Units)

Pigments

Not applicable (NA)

Base Metal

NA

Catalyst

"

Alloys

"

Vehicle

"

Metallic Coatings

"

Solvents

"

Filler Metal
Plus Coating or Core Flux

"

Additives

"

Others

"

Others

"

Hazardous Mixtures of Other Liquids, Solids or Gases

Chrysotile Asbestos (Min.) 95% 2 fibres/cc*

% TLV (Units)

* Only fibres greater than 5 micrometres in length. OSHA ceiling concentrations =
10 fibres/cc (>5 µm). See OSHA regulation 29CFR1910.1001 for additional requirements.

Section III - Physical Data

Boiling Point (°F)

NA

Specific Gravity (H₂O=1)

2.4-2.6

Vapor Pressure (mm Hg.)

NA

Percent Volatile by Volume (%)

NA

Vapor Density (AIR=1)

NA

Evaporation Rate

NA

Solubility in Water

insoluble

Appearance and Odor

odorless, white fibrous form

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used)

nonflammable

Flammable Limits*

NA

Let

Uel

Extinguishing Media

NA

Special Fire Fighting Procedures

Wear NIOSH/MSHA approved self-contained breathing apparatus and protective clothing.

Unusual Fire and Explosion Hazards

None

JMM 00000274

LAQ

André Gauthier
Vice-président senior
Opérations

June 13, 1985

Mr. E.E. Wang
J-M Manufacturing Company, Inc.
1051 Sperry Road,
Stockton, Cal. 95206

Dear Sir:

Further to your request, please find enclosed Material Safety Data Sheet for chrysotile asbestos fibres, grades 5R3 and 4T3.

Please do not hesitate to contact the undersigned if any other information is required.

Yours truly,

A. Gauthier

A. Gauthier

/dbm
Encl. 1
cc: DWilkinson - Stockton
BCiaccio - Denison
File

Lac d'Amiante du Québec, Ltée
Black Lake, Québec, G0N 1A0
(418) 423-4221 Cable LAQBESTOS BLACK LAKE
Télex 05-833586

JUN 24 1985

JMM 00000275

U.S. DEPARTMENT OF LABOR
Occupational Safety and Health Administration

Form OSHA-20
OMB No. 1218-0127

MATERIAL SAFETY DATA SHEET

Required under USDL Safety and Health Regulations for Ship Repairing,
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

SECTION I

MANUFACTURER'S NAME SOCIÉTÉ ASBESTOS LIMITÉE		EMERGENCY TELEPHONE NO. (418) 335-9171 Ext. 244
ADDRESS (Number, Street, City, State, and ZIP Code) 835 Mooney Street, Thetford-Mines, Québec, Canada, G6G 5S1		
CHEMICAL NAME AND SYNONYMS Chrysotile asbestos	TRADE NAME AND SYNONYMS Grade 4T	
CHEMICAL FAMILY Fibrous mineral silicate	FORMULA Mg₃ (OH)₂ (Si₂O₅)	

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Unit)	ALLOYS AND METALLIC COATINGS	%	TLV (Unit)
PIGMENTS			BASE METAL		
CATALYST			ALLOYS		
VEHICLE			METALLIC COATINGS		
SOLVENTS			FILLER METAL PLUS COATING OR CORE FLUX		
ADDITIVES			OTHERS		
OTHERS					
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES				%	TLV (Unit)

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	n/a	SPECIFIC GRAVITY (H ₂ O=1)	±2.55
VAPOR PRESSURE (mm Hg.)	n/a	PERCENT VOLATILE BY VOLUME (%)	32.7% water at 1000°C
VAPOR DENSITY (AIR=1)	n/a	EVAPORATION RATE (_____ "1)	
SOLUBILITY IN WATER	n/a		
APPEARANCE AND ODOR			

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	FLAMMABLE LIMITS	Lel	Uel
EXTINGUISHING MEDIA			
SPECIAL FIRE FIGHTING PROCEDURES			
UNUSUAL FIRE AND EXPLOSION HAZARDS			

JMM 00000276

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE

Two fibres/cc (8-hour exposure) as defined by the A.G.G.I.B.

EFFECTS OF OVEREXPOSURE

Inhalation of an excessive quantity of chrysotile asbestos fibre over an extended period may produce a fibrosis in the lungs (asbestosis).

EMERGENCY AND FIRST AID PROCEDURES

SECTION VI - REACTIVITY DATA

STABILITY

UNSTABLE

CONDITIONS TO AVOID

STABLE

x

Dehydrates slowly when heated from 200° to 1000° C.

INCOMPATIBILITY (Materials to avoid)

HAZARDOUS DECOMPOSITION PRODUCTS

None

HAZARDOUS POLYMERIZATION

MAY OCCUR

CONDITIONS TO AVOID

WILL NOT OCCUR

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Repair ruptured container and dispose of spilled material, avoid raising dust in the air. If possible, use vacuum cleaner.

WASTE DISPOSAL METHOD

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type)

Throw away mask #8710 (3M Co.) or Dustfoe 66 or 77 (MSA)

VENTILATION

LOCAL EXHAUST

SPECIAL

MECHANICAL (General)

OTHER

PROTECTIVE GLOVES

EYE PROTECTION

OTHER PROTECTIVE EQUIPMENT

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Do not puncture or otherwise rupture bags.

OTHER PRECAUTIONS

ASBESTOS

TELEX: 05-833572
CABLE: "AMASCOLIM"
TÉLÉPHONE (418) 338-2181

**SOCIÉTÉ ASBESTOS LIMITÉE
ASBESTOS CORPORATION LIMITED**

C.P. / P.O. BOX 518, THETFORD-MINES, QUÉBEC, CANADA, G6G 5T6

Thetford-Mines, Que.
July 23, 1985

J.M. MANUFACTURING COMPANY INC.
To the attention of Mr. E.E. Wang
1051 Sperry Road
Stockton, California 95206

Re: Material Safety Data Sheet (MSDS)

Dear Mr. Wang:

At Mr. Paul Huang's request, please find attached our MSDS covering the asbestos fibre we are currently selling to your company.

For your information, we have also sent the same document to your Denison plant.

Sincerely yours,


(Claude Giroux)
Technical Sales Representative

ASBESTOS CORPORATION LIMITED

CG/llt

Encl.



Calaveras
Asbestos Ltd.

MATERIAL SAFETY DATA SHEET

ASBESTOS FIBRE CHRYSOTILE ASBESTOS

Section I: PRODUCT IDENTIFICATION

Chemical Name & Synonyms: ~~Chrysotile Asbestos~~ CAS # 12001-29-5
Trade Name & Synonyms: ~~Asbestos~~
Chemical Family: Fibrous Mineral Silicates No NFPA Codes available
Typical Formula: $Mg_3(Si_2O_5)(OH)_4$

Section II: HAZARDOUS INGREDIENTS TLV (Units)

Asbestos contains no hazardous ingredients. However, the material itself can be hazardous under certain conditions. (See Section V below.)

Paints, Preservatives & Solvents

Pigments, Catalyst, Vehicle, Solvents
Additives and Others N/A

Alloys and Metallic Coatings

Base Metals, Alloys, Metallic Coatings
Filler Metal plus Coating or Core Flux,
Other N/A

Hazardous Mixtures of Other Liquids, Solids or Gases

Chrysotile Asbestos Fibre Approx. 100%
(for * TLV - See Section V) *

Section III: PHYSICAL DATA

Boiling Point (F°), Vapor Pressure (mm Hg.) and
Melting Point N/A
Vapor Density (Air-1), Solubility in Water N/A
Appearance and Odor:
White Fibrous dry material - no odor
Specific Gravity ($H_2O=1$) 2.4-2.6
Percent volatile by volume (%) N/A
Evaporation rate (____-1) N/A
Volatile content: Absorbed Water 1-4% by Weight.
Structural water approx. 13% by Weight.

JMM 00000279

P.O. Box 127 • Copperopolis, California 95228 • Telephone (209) 785-2201 • Telex 359458 CALACOP

MAY 30 1985

MATERIAL SAFETY DATA SHEET**ASBESTOS FIBRE CHRYSOTILE ASBESTOS****Section IV: FIRE AND EXPLOSION HAZARD DATA**

Material is non-flammable. No fire or explosion hazard.

Section V: HEALTH HAZARD DATA**Threshold Limit Value (TLV)**

OSHA Exposure Limits Effective July 1, 1976.*

The 8-hour time-weighted average airborne concentrations of asbestos fibres to which any employee may be exposed shall not exceed two fibres, longer than 5 micrometers, per cubic centimeter of air.

Celling Concentrations.

No employee shall be exposed at any time to airborne concentrations of asbestos fibres in excess of 10 fibres, longer than 5 micrometers, per cubic centimeter of air. (Refer to OSHA Standard for Exposure to Asbestos Dust, Federal Register, Volume 37, No. 110 - Wednesday, June 7, 1972, paragraph (h)(2).)

Effects of Exposure.

CAUTION: Breathing asbestos may cause serious bodily harm.

Emergency and First Aid Procedures.

No acute toxicity. Avoid breathing excessive dust when handling, dumping, and mixing. Use respirator if airborne asbestos fibre concentration exceeds OSHA limits. See caution label on the bag.

* OSHA Regulations and standards are subject to change without notice.

Section VI: REACTIVITY DATA

Stability	Stable
Incompatibility (materials to avoid)	N/A
Hazardous Decomposition Products	None
Hazardous Polymerization	Will not occur

Section VII: SPILL OR LEAK PROCEDURES

~~Steps to be taken in case of spillage or leakage of material~~

Avoid inhalation of dust. Vacuum clean spillage. Repair broken bags. If sweeping is necessary, wet down spillage, and use approved respiratory equipment when required.

Waste Disposal Method.

Bags and waste and scrap material should be disposed of in a manner which will avoid airborne concentrations of asbestos, such as the use of dust-tight trash bags or containers. Ensure that disposal complies with all applicable federal, state and local regulations. (See OSHA Standard for Exposure to Asbestos Dust, Federal Register, Volume 37, No. 110-Wednesday, June 7, 1972, paragraph (h)(2).)

MATERIAL SAFETY DATA SHEET**ASBESTOS FIBRE CHRYSOTILE ASBESTOS****Section VII: SPECIAL PROTECTION INFORMATION****Ventilation**

Control with mechanical dust collection equipment to within TLV. (See American National Standards Institute Booklet, Z9.2 - 1971.) Local exhaust for each operation is preferable. General area exhaust is acceptable. No special considerations.

Respiratory Protection

Use respirators as recommended by the OSHA Standard for Exposure to Asbestos Dust, Federal Register, Volume 37, No. 110 - Wednesday, June 7, 1972 - paragraph (d).

Other Protective Equipment

Use special clothing as required by the OSHA Standard for Exposure to Asbestos Dust, Federal Register, Volume 37, No. 110 - Wednesday, June 7, 1972, paragraph (d).

Section IX: SPECIAL PRECAUTIONS**Precautions to be taken in handling and storing.**

Maintain good housekeeping practices. Vacuum clean waste and place in closed containers.

Bag damage and dusting should be minimized and dust inhalation avoided.

~~Comprehensive medical examinations are required for any employee exposed to asbestos dust. At the time of first such employment, annually thereafter and on termination of employment.~~

Personal work clothing can become contaminated with asbestos and may constitute an exposure hazard. Such clothing should be handled and laundered in a manner to avoid airborne concentrations of asbestos.

Substantial medical evidence indicated that smoking will increase the risk from asbestos exposure. Those working with asbestos should not smoke.

Where exposure limits may be exceeded, reference should be made to the OSHA Standard for Exposure to Asbestos Dust, Federal Register, Volume 37, No. 110 - Wednesday, June 7, 1972, paragraph (d), for details on caution signs, monitoring, change rooms, protective clothing laundering and record keeping.

While the information and recommendations set forth herein are believed to be accurate as of the date hereof, CALAVERAS ASBESTOS, LTD. MAKES NO WARRANTY WITH RESPECT THERETO AND DISCLAIMS ALL LIABILITY FROM RELIANCE THEREON.



June 19, 1985

Dr. E. E. Wang
Manager
Corporate Environmental Control
1051 Sperry Road
Stockton, CA 95206

Dear Dr. Wang:

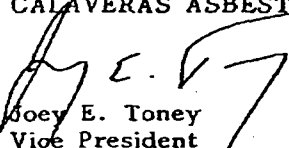
In response to your request for additional information not given on our MSDS, please be advised of the following:

1. The Chemical Abstract Service Number for chrysotile asbestos is 12001-29-5.
2. Mr. Martin Henry of the National Fire Protection Association, Quincy, Massachusetts, reports that NFPA does not have a Hazard Classification Code Number for asbestos.

If any additional information is needed, please let me know.

Sincerely,

CALAVERAS ASBESTOS, LTD.


Joey E. Toney
Vice President
Environmental Safety

JET/kf

JMM 00000282

JUN 20 1985

P.O. Box 127 • Copperopolis, California 95228 • Telephone (209) 785-2201 • Telex 359458 CALACOP



J-M Manufacturing Company, Inc.

1051 Sperry Road • Stockton, California 95206 • Tel (209) 982-1500 • Telex 359491 • Telecopier (209) 465-8184

June 3, 1985

Mr. Gordon A. Coats, President
Calaveras Asbestos Ltd.
P.O. Box 127
Copperopolis, CA 95228

RE: Your MSDS

Dear Mr. Coats:

Thank you for your letter dated May 29, 1985 and the enclosed copy of your MSDS. However, the following information was not given in your MSDS.

1. CAS (Chemical Abstracts Service) Number, and
2. NFPA (National Fire Protection Association) Hazard Classification Codes concerning the health, flammability, and reactivity.

Please furnish us with the above mentioned data.

Your prompt response is requested.

Sincerely yours,

Dr. E.E. Wang
Manager, Corporate Environmental Control

JUN 05 1985

JMM 00000283



May 29, 1985

Mr. E. E. Wang
J-M Manufacturing Co., Inc.
1051 Sperry Road
Stockton, CA 95206

Dear Mr. Wang,

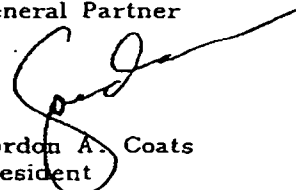
As requested by Mr. Paul Huang, please find a copy of our MSDS. This covers all products that we will be supplying J-M Manufacturing Company.

If you have any questions, please call: Mr. Joey Toney
209/785-2201

Thank you.

Yours,

CALAVERAS NATURAL RESOURCES
General Partner



Gordon A. Coats
President

GAC:tc

enclosures

cc: Paul Huang

JMM 00000284

MAY 30 1985

P.O. Box 127 - Copperopolis, California 95228 - Telephone (209) 785-2201 - Telex 359458 CALACOP



J-M Manufacturing Company, Inc.

1051 Sperry Road, Stockton, California 95206
Tel:(209) 982-1500 • Telex:359491 • Telecopier:(209) 465-8184

May 17, 1985

Calaveras Asbestos Ltd.
P.O. Box 127
Copperopolis, Ca. 95228

ATTN: Gordon Coats

The Occupational Safety and Health Administration's Hazard Communication Standard will become effective for manufacturers in SIC Codes 20-39 on November 25, 1985. On that date, a Material Safety Data Sheet (MSDS) will be required at all using locations for all hazardous substances purchased by J-M. The MSDS must contain the information required by the Standard as set forth in 29 CFR 2910.1200 (G) (2).

J-M is incorporating in its purchasing policy manual, as a condition of sale, this requirement for the provision of an MSDS.

A MSDS must be forwarded to J-M Manufacturing, attn: E.E. Wang, and to each plant (or each using location) with the first shipment of the substance to that location prior to November 25, 1985. In addition, revised MSDS must be provided these same facilities with the first shipment after revision.

Vendors who fail to comply with this requirement will result in disqualification as a supplier to J-M.

Sincerely,


Paul Huang
Purchasing Manager

PH/pf

JMM 00000285



MATERIAL SAFETY DATA SHEET

Date of Preparation

November 12, 1985

Emergency Telephone Number

"CHEMTREC" - 1-800/424-9300

SECTION I -- PRODUCT IDENTIFICATION

Chemical Name & Synonyms: ~~Chrysotile~~
Trade Name & Synonyms: Asbestos
Chemical Family: Fibrous Mineral Silicates
Typical Formula: $Mg_3(Si_2O_5)(OH)_4$

SECTION II -- HAZARDOUS INGREDIENTS

Ingredient	Percent	Occupational Exposure Limits		Vapor Pressure
		PEL	TLV	
Chrysotile Asbestos	Approx. 100%	2 fibres/cc 8 hr. TWA	Chrysotile- 2.0 fibres/cc	N.A.
C.A.S. Number:		Ceiling Con- centration	ACGIH, Documentation of TLVs at 27	
#12001-29-5		10 fibres/cc		
U.N. Shipping Number:		OSHA Standard at 29 CFR 1910.1001		
2590 (white asbestos)				
H.M. I.S. Rating Numbers:				
Health-*(Possible Chronic Effects)				
Flammability-0				
Reactivity-0		Fibres measured are those longer than 5 microns.		

SECTION III -- PHYSICAL DATA

Boiling Range: N/A	Vapor Density: N/A
Volatile Volume: N/A	Evaporation Rate
Specific Gravity ($H_2O=1$): 2.4-2.6	Faster/Slower than Ether: N/A
Appearance and Odor:	Wt/Gal: Variable
White fibrous dry material-no odor	

JMM 00000286

SECTION IV -- FIRE AND EXPLOSION HAZARD DATA

Flammability Classification: OSHA: N/A
(Non-flammable) DOT: N/A
Flash Point: N/A LEL: N/A
Extinguishing Media: (Use that which is appropriate for surrounding fire)
Foam "Alcohol" Foam CO₂ Dry Chemical Water Fog Other
Unusual Fire and Explosion Hazards: None
Special Firefighting Procedures: None

Section V -- HEALTH HAZARD DATA

Effects of Overexposure:

- Acute - May cause eye and/or skin irritation.
- Chronic - Overexposure to asbestos can cause asbestosis, a scarring of the lungs. Pleural thickening, effusion, and plaques are nondisabling conditions, seen separately or together, that have been associated with asbestos exposure. The International Agency for Research on Cancer (IARC) has determined that there is sufficient evidence for the carcinogenicity of asbestos in humans.

Signs and Symptoms of Overexposure:

Asbestosis is associated with symptoms of labored breathing, chest pain, weakness and chest tightness. Symptoms are not usually manifest until 15-20 years after exposure.

Primary Route(s) of Entry: Dermal Inhalation Ingestion

Emergency and First Aid Procedures:

Remove asbestos slivers from skin promptly. In case of eye irritation, gently rinse with water. If irritation persists, get medical help.

Special Note: A medical surveillance program must be established for asbestos-exposed persons in accordance with the requirements of the Occupational Safety and Health Administration's standard for asbestos (29 CFR Part 1910.1001).

SECTION VI -- REACTIVITY DATA

Stability: Stable

Hazardous Polymerization: Will Not Occur

Hazardous Decomposition Products: None

Conditions to Avoid: Avoid creating and breathing dust.

Incompatibility (Materials to Avoid): None

SECTION VII — SPILL OR LEAK PROCEDURES

Steps to be Taken in Case Material is Released or Spilled:

Avoid creating dust. Collect dust by HEPA vacuum or in the wet state (wet sweeping, wet wiping) to prevent emission of airborne fibres.

Waste Disposal Method: Found at 40 CFR

§ 61.152 Standard for waste disposal for manufacturing demolition, renovation, spraying, and fabricating operations.

Each owner or operator of any source covered under the provisions of §§ 61.144-61.149 shall:

- (a) Deposit all asbestos-containing waste material at waste disposal sites operated in accordance with the provisions of § 61.154; and
- (b) Discharge no visible emissions to the outside air from collection, processing (including incineration), packaging, transporting, or deposition of any asbestos-containing waste material generated by the source, or use one of the disposal methods specified in paragraphs (b)(1), (2), or (3) of this section, as follows:

(1) Treat asbestos-containing waste material with water:

(i) Mix asbestos waste from control devices with water to form a slurry; adequately wet other asbestos-containing waste material; and

(ii) Discharge no visible emissions to the outside air from collection, mixing, and wetting operations; or use the methods specified by § 61.154 to clean emissions containing particulate asbestos material before they escape to, or are vented to, the outside air; and

(iii) After wetting, seal all asbestos-containing waste material in leak-tight containers while wet; and

(iv) Label the containers specified in paragraph (b)(1)(iii) as follows:

CAUTION

Contains Asbestos.
Avoid Opening or
Breaking Container
Breathing Asbestos is Hazardous
to Your Health

Alternatively, use warning labels specified by Occupational Safety and Health Standards of the Department of Labor, Occupational Safety and Health Administration (OSHA) under 29 CFR 1910.1001(g)(2)(ii).

(2) Process asbestos-containing waste material into nonfriable forms:

(i) Form all asbestos-containing waste material into nonfriable pellets or other shapes; and

(ii) Discharge no visible emissions to the outside air from collection and processing operations, or use the methods specified by § 61.154 to clean emissions containing particulate asbestos material before they escape to, or are vented to, the outside air.

(3) Use an alternative disposal method that has received prior approval by the Administrator.

§ 61.154 Active waste disposal sites.

To be an acceptable site for disposal of asbestos-containing waste material under §§ 61.151 and 61.152, an active waste disposal site must meet the requirements of this section.

(a) Either there must be no visible emissions to the outside air from any active waste disposal site where asbestos-containing waste material has been deposited, or the requirements of paragraph (c) or (d) of this section must be met.

(b) Unless a natural barrier adequately deters access by the general public, either warning signs and fencing must be installed and maintained as follows, or the requirements of paragraph (c)(1) of this section must be met.

(1) Warning signs must be displayed at all entrances and at intervals of 100 m (330 ft) or less along the property line of the site or along the perimeter of the sections of the site where asbestos-containing waste material is deposited. The warning signs must:

(i) Be posted in such a manner and location that a person can easily read the legend; and

(ii) Conform to the requirements of 51 cm x 38 cm (20" x 14") upright format signs specified in 29 CFR 1910.145(d)(4) and this paragraph; and

(iii) Display the following legend to the lower panel with letter sizes and styles of a visibility at least equal to those specified in this paragraph.

Legend	Meaning
Asbestos Waste Disposal Site Do Not Cross This	2.5 cm (1 inch) Sans Serif, Green or Black 1.8 cm (3/4 inch) Sans Serif, Green or Black 14 Point Green.
Breathing Asbestos is Hazardous to Your Health	

Spacing between any two lines must be at least equal to the height of the upper of the two lines.

(2) The perimeter of the disposal site must be fenced in a manner adequate to deter access by the general public.

(3) Upon request and supply of appropriate information, the Administrator will determine whether a fence or a natural barrier adequately deters access by the general public.

(c) Rather than meet the no visible emission requirement of paragraph (a) of this section, an active waste disposal site would be an acceptable site if at the end of each operating day, or at least once every 24-hour period while the site is in continuous operation, the asbestos-containing waste material which was deposited at the site during the operating day or previous 24-hour period is covered with either:

(1) At least 15 centimeters (6 inches) of compacted nonasbestos-containing material, or

(2) A resinous or petroleum-based dust suppression agent that effectively binds dust and controls wind erosion. This agent must be used as recommended for the particular dust by the manufacturer of the dust suppression agent. Other equally effective dust suppression agents may be used upon prior approval by the Administrator. For purposes of this paragraph, waste crankcase oil is not considered a dust suppression agent.

(d) Rather than meet the no visible emission requirement of paragraph (a) of this section, an active waste disposal site would be an acceptable site if an alternative control method for emissions that has received prior approval by the Administrator is used.

(Secs. 112 and 301(a) of the Clean Air Act as amended (42 U.S.C. 7412, 7601(a))

(FR Doc. 85-0000 Filed 11-12-85; 2:05 am)

GILLING CODE 0000-00-01

SECTION VIII — SAFE HANDLING AND USE INFORMATION

Respiratory Protection:

Reusable or single-use air purifying respirator -- for exposures which do not exceed the PEL by more than 10X.

Powered air-purifying respirator -- for exposures more than 10X, but less than 100X, the PEL.

Type "C" continuous flow or pressure-demand, supplied-air respirator -- for exposures more than 100X the PEL.

All respirators must be NIOSH/MSHA approved.

Ventilation: Local ventilation if engineering controls are inadequate.

Protective Gloves: (See "Other Protective Equipment")

Eye Protection: (See "Other Protective Equipment")

Other Protective Equipment:

If the ceiling concentration limit is exceeded, clothing providing whole body covering shall be supplied and its use required.

Hygienic Practices: Do not create or breathe dust.
Do not dry sweep or use air hose for cleaning.
Do not take protective equipment or clothing home.
(See attached pamphlet, "Recommended Practices for Handling Asbestos Fiber".)

SECTION IX — SPECIAL PRECAUTIONS

Precautions to be Taken in Handling and Storing:

Use no hooks in loading and unloading.

Protect containers from damage.

Do not open containers in a manner that can release dust without providing proper enclosure or control measures.

Use dust suppression control measures, such as ventilation or wet-working, at all stages of asbestos handling, use and disposal.

Follow good housekeeping practices, such as wet-wiping dusty surfaces, to prevent accumulation of asbestos-containing dust.

Avoid inhalation of asbestos.

Other Precautions: Smoking greatly increases risk to health.

While the information and recommendations set forth herein are believed to be accurate as of the date hereof, CALAVERAS ASBESTOS, LTD. MAKES NO WARRANTY WITH RESPECT THERETO AND DISCLAIMS ALL LIABILITY FROM RELIANCE THEREON.

Additional copies of this pamphlet and informational materials listed below are available from the Asbestos Information Association/North America:

- "What You Should Know About Asbestos and Health" — an employee information pamphlet.
- Recommended Work Practices
 - Fabrication and Use of Asbestos Paper Products
 - Shop and Field Fabrication of Asbestos Sheet Products
 - Molding and Fabrication of Asbestos Containing Plastic Products
 - Fabrication and Use of Asbestos Friction Materials
 - Use and Handling of Asbestos Textile Products
- "Federal Regulations — Asbestos" — a comprehensive handbook of regulations issued by Federal regulatory agencies.
- "Asbestos in the Atmosphere — A hazard to health?" — a general information pamphlet.
- "Asbestos in Water — A hazard to health?" — a general information pamphlet.
- Poster Series — Asbestos Health Hints for the Workplace — 15" x 23"
 - Vacuum dust spills . . . never dry sweep!
 - When required, always use your respirator!
 - If you don't smoke now, don't start. If you do smoke, quit!
 - Report unsafe conditions immediately!
 - Repair broken bags immediately!
 - Use change rooms and lockers! Leave dusty clothes at work!
- Poster — Recommended Practices for Handling Asbestos Fiber — 11" x 14"



For further information:

Asbestos Information Association/North America
1835 K Street, N.W.
Washington, D.C. 20006

Recommended Practices for

Handling Asbestos Fiber



NOV. 22 1985

Recommended Practices for Handling Asbestos Fiber

Protection from fire, absorption of heat from friction, high tensile strength as a reinforcing material, resistance to corrosion and insulation from heat, cold and noise are among the properties of asbestos that result in its use in hundreds of industrial applications and home products.

Asbestos is the name given to a group of hydrated silicate minerals that are characterized by fibrous crystallization. Though asbestos is fairly common to the earth's crust, not all deposits are of commercial value. Because asbestos is fibrous and, in a certain range of sizes, can enter the lungs, maximum care should be taken to avoid exposure to asbestos dust and the hazards to health that can result.

GENERAL PRECAUTIONS

In all stages of handling — packaging, transporting, unloading, storing, and in-part moving — asbestos fiber bags should be handled carefully and in such a manner as to prevent damage of bags and the generation of dust.

Damaged bags should be immediately repaired, resealed or put into closed receptacles. Any spillage of asbestos fiber should be cleaned up immediately — either by vacuum equipment or, after thoroughly wetting, by sweeping — and should be deposited in suitable closed receptacles.

Consult and observe OSHA regulations governing asbestos in the workplace; EPA rules on discharge to the ambient air; and other local codes, rules or regulations controlling the handling and use of asbestos fiber.

UNLOADING

Unitized loads should be lifted intact to and from holds of ships, and off and on land transport by forklift trucks or other suitable handling equipment.

Care should be taken to avoid puncturing the asbestos fiber bags during unloading from ships, railroad cars, trucks or other modes of transportation. Hooks or other sharp instruments should not be used. Loose fiber accumulated during transit should be picked up by vacuum cleaner before unloading.

STORAGE

For storage, fiber bags should be stacked and moved with care to avoid breakage; protected from puncture by moving vehicles; and, if possible, should be isolated from traffic in the warehouse and covered to prevent dust generation. To prevent deterioration of stored bags, the principle of first-in, first-out should be followed.

HANDLING

Maximum possible enclosure and fully effective dust control systems should be provided at all stages of in-plant handling where dust is created, such as in bag opening, fiber dumping and bag disposal operations. Loose fiber should be cleaned from work areas by vacuum cleaner, or after thoroughly wetting, by sweeping, and then deposited in covered receptacles.

PROTECTIVE EQUIPMENT

Wearing of respiratory equipment approved for protection against asbestos dust should be required at all stages of asbestos fiber handling where quantities of dust are generated which cannot be kept within the permissible exposure limits by dust control equipment or other methods.

TRANSPORT

Where the use of asbestos requires the transport of loose fiber in open carts or buggies, covers should be used to prevent spilling and dust generation.

WASTE MATERIALS

Waste materials, such as collected dust and empty fiber bags, should be placed in special closed receptacles and disposed of in such a manner as to prevent the release of dust. Safety practices outlined above in the **HANDLING** and **PROTECTIVE EQUIPMENT** sections should be followed during these operations.

All dust from exhaust systems should be collected and safely disposed of, being careful not to release dust into the outside air. Particular attention should be paid to the protection of employees whose job it is to dispose of collected dust from fabric filter dust collection and similar cleaning operations.



November 21, 1985

Mr. E. E. Wang
J-M A/C Pipe Corporation
1051 Sperry Road
Stockton, CA 95206

Dear Mr. Wang,

Enclosed you will find a copy of our revised Material Safety Data Sheet. As per instructions on your purchase order, when this form is revised, you need a copy.

Thank you for your continued business.

Yours,

CALAVERAS NATURAL RESOURCES, INC.
General Partner

Terri Cantrell
Executive Secretary & Sales

enclosure

JMM 00000292

NOV. 22 1985

P.O. Box 127 - Copperopolis, California 95228 - Telephone (209) 785-2201 - Telex 359458 CALACOP

BRAKEGATE LIMITED

6 Broad Street Place, London EC2M 7ND England

R.S.A.: P.O. Box 784521, Sandton 2146
Transvaal, South Africa
Tel: (27-11) 785-4313 • Tlx: 4-27188 SA

U.S.A.: P.O. Box 14095
West Allis, Wisconsin 53214
414/383-2020

November 20, 1985

Mr. E. E. Wang
J-M A/C PIPE CORPORATION
1051 Sperry Road
Stockton, CA 95206

Dear Mr. Wang:

Please find enclosed manufactuer supplied Material
Safety Data Sheet to comply with OSHA enacted Hazard
Communication Standard (29 CFR 1910.1200).

Should you have any questions or need further information,
please advise us.

Sincerely yours,

BRAKEGATE LIMITED

B. Heering

Enclosure

NOV. 22 1985

JMM 00000293

Director: Bernard Heering

MATERIAL SAFETY DATA SHEET

MC-202-46 (Rev)

SPEC. MSDS NUMBER

DATE

Nov. 4, 1985

PRODUCT IDENTIFICATION

TRADE NAME <u>Asbestos</u>	GENERIC NAME <u>Crocidolite Asbestos</u>
MANUFACTURER'S NAME <u>Griqualand Exploration & Finance Corp.</u>	CAS NUMBER <u>1332-21-4</u>
ADDRESS (STREET) <u>P.O. Box 69</u>	PHONE NUMBER (EMERGENCY) <u>(011-27-11)339-5458</u>
CITY <u>Kuruman, Cape Province RSA</u>	CHEMICAL STRUCTURE <u>Na₂Fe₅(OH)Si₄O₁₁</u>

I. PRODUCT INGREDIENTS

CHEMICAL AND/OR COMMON NAME	CAS NUMBER	%	TLV/PEL
Crocidolite Asbestos	1332-21-4	100.0	*
*Occupational Exposure Limits			
PEL	TLV		
2.0 f/cc - 8 hr. TWA	0.2 f/cc		
Ceiling conc.	ACGIH, Documentation of		
10.0 f/cc	TLVs at 27		
OSHA Standard at			
29 CFR 1910.1001			
(Fibers measured are those longer than than 5 microns)			

II. PHYSICAL DATA

BOILING POINT n/a	VAPOR PRESSURE n/a	SPECIFIC GRAVITY 3.2-3.3	MELTING POINT n/a
SOLUBILITY IN WATER n/a	VAPOR DENSITY (AIR=1) n/a	PERCENT VOLATILE n/a	EVAPORATION RATE (-) n/a
APPEARANCE AND ODOR Blue fibrous dry material - no odor.			

III. FIRE AND EXPLOSION DATA

FLASH POINT n/a	FLAMMABLE LIMITS n/a	FLAMMABLE LIMITS n/a	LEL n/a	UEL n/a
EXTINGUISHING MEDIA non-flammable				
SPECIAL FIREFIGHTING PROCEDURES none				
UNUSUAL FIRE OR EXPLOSION HAZARDS none				

IV. HEALTH HAZARD INFORMATION

HAZARD BY ROUTES OF EXPOSURE (Indicate chronic and acute)

INHALATION - Chronic - Avoid inhalation. Overexposure can cause asbestosis, a scarring of the lungs. Pleural thickening, effusion and plaques are nondisabling conditions, seen separately or together, that have been associated with exposure. The IARC has determined that there is sufficient evidence for the carcinogenicity of asbestos in humans. Caution is advise as breathing asbestos may cause serious bodily harm.

INGESTION
no increased hazard evidenced.

EYE
Acute - may cause eye irritation.

SKIN CONTACT/ABSORPTION
Acute - may cause skin irritation.

SIGNS AND SYMPTOMS ASSOCIATED WITH EXPOSURE OVER TLV - Asbestosis is associated with symptoms of labore breathing, chest pain, weakness and chest tightness. Symptoms are not usually manifest until 15-20 years after exposure.

MEDICAL CONDITIONS WHICH MAY BE AGGRAVATED

Respiratory ailments.

JMM 00000294

ANY OF PART I LISTED AS CARCINOGENS? (NTP, IARC, OSHA)

NOV. 22 1985

Yes

HEALTH HAZARD INFORMATION CONTINUED ON BACK

V • HEALTH HAZARD INFORMATION (Continued)

EMERGENCY/FIRST AID PROCEDURES

INHALATION—Avoid breathing dust when handling, dumping, and mixing. Use respirator if airborne concentrations exceed OSHA limits (see Sec. VI).

INGESTION

EYE CONTACT

In case of eye irritation, gently rinse with water. If irritation persists get medical help.

SKIN CONTACT

Remove slivers from skin promptly. If irritation persists get medical help.

SKIN ABSORPTION

n/a

VI • CONDITIONS FOR SAFE USE (When over TLV)

RESPIRATORY PROTECTION—Reusable or single use air purifying respirator for exposures which do not exceed the PEL (see Sec. I) by more than 10X. Powered air purifying respirator for exposures more than 10X but less than 100X the PEL. Type "C" continuous flow or pressure demand supplied air respirator for exposures more than 100X the PEL. All respirators must be NIOSH approved.

EYE PROTECTION

(see "Other.." this Sec.)

PROTECTIVE GLOVES

(see "Other.." this Sec.)

OTHER PROTECTIVE CLOTHING/EQUIPMENT—If the ceiling concentration (see Sec. I) limit is exceeded, clothing providing whole body covering must be supplied and its use required.

VENTILATION REQUIREMENTS—Local ventilation if engineering controls are inadequate. (see OSHA Title 29 CFR Part 1910.1001, c (1), (ii)).

VII • REACTIVITY DATA

IS MATERIAL STABLE?

Yes

WILL HAZARDOUS POLYMERIZATION OCCUR?

No

INCOMPATIBILITY

n/a

CONDITIONS TO AVOID

Avoid creating and breathing dust.

HAZARDOUS DECOMPOSITION PRODUCTS

none

VIII • SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS SPILLED OR RELEASED—Avoid creating or breathing dust. Collect dust by HEPA vacuum or in wet state (wet sweeping, wet wiping) to prevent emission of airborne fibers.

WASTE DISPOSAL METHOD—Bags, waste and scrap should be disposed of in a manner which all avoid airborne concentrations of asbestos, such as the use of dust-tight trash bags or containers. Ensure that disposal complies with all applicable federal, state and local regulations.

RCRA REGULATED

☐ Yes ☐ No

RCRA NUMBER

CERCLA (Superfund) REPORTABLE QUANTITY

DOT REGULATED

☒ Yes ☐ No

DOT PROPER SHIPPING NAME

Asbestos

DOT HAZARD CLASS

ORM-C

DOT NUMBER

—

IX • SPECIAL PRECAUTIONS

SPECIAL PRECAUTIONS FOR HANDLING AND STORAGE—Do not create or breath dust. Do not dry sweep or use air hose for cleaning. Do not take protective clothing or equipment home. Use no hooks in loading or unloading. Protect containers from damage. Prevent dust release without providing proper enclosure or control measures. Use dust suppression control measures, such as ventilation or wetworking at all stages of handling, use and disposal. Follow good housekeeping practices, such as wet wiping dusty surfaces, to prevent accumulation of asbestos containing dust. Avoid inhalation.

OTHER PRECAUTIONS—Substantial medical evidence indicates that smoking increases the risk from asbestos exposure. Those working with asbestos should not smoke.

PREPARED BY

PHONE NO.

TITLE

JMM 00000295

While the information and recommendations set forth herein are believed to be accurate as of the date hereof, THE MANUFACTURER MAKES NO WARRANTY WITH RESPECT THERETO AND DISCLAIMS ALL LIABILITY FROM RELIANCE THEREON.

MATERIAL SAFETY DATA SHEET

MSDS-100 (Rev. 1-85)

SPEC/MSDS NUMBER

DATE

Nov. 4, 1985

PRODUCT IDENTIFICATION

TRADE NAME <u>Asbestos</u>	GENERIC NAME <u>Chrysotile Asbestos</u>
MANUFACTURER'S NAME - Minerals Marketing Corp. of Zimbabwe as agents for Shabanie & Mashaba Mines (Pvt) Ltd.	CAS NUMBER <u>12001-29-5</u>
ADDRESS (STREET) P.O. Box 552	PHONE NUMBER (EMERGENCY) <u>(011-263-9) 76635</u>
CITY Bulawayo, Zimbabwe	STATE
ZIP	CHEMICAL STRUCTURE <u>Mg₃(Si₂O₅)(OH)₄</u>

I. PRODUCT INGREDIENTS

CHEMICAL AND/OR COMMON NAME	CAS NUMBER	%	TLV/PEL
Asbestos	12001-29-5	100.0	*
*Occupational Exposure Limits			
PEL	TLV		
2.0 f/cc -8 hr. TWA	2.0 f/cc		
CEILING conc.	ACGIH, Documentation of		
10.0 f/cc	TLV's at 27		
OSHA Standard			
at 29 CFR 1910.1001			

II. PHYSICAL DATA

BOILING POINT n/a	VAPOR PRESSURE n/a	SPECIFIC GRAVITY 2.4-2.6	MELTING POINT n/a
SOLUBILITY IN WATER n/a	VAPOR DENSITY (AIR = 1) n/a	PERCENT VOLATILE n/a	EVAPORATION RATE (-1) n/a

APPEARANCE AND ODOR
white fibrous dry material - no odor

III. FIRE AND EXPLOSION DATA

FLASH POINT n/a	FLAMMABLE LIMITS n/a	FLAMMABLE LIMITS n/a	LEL n/a	UEL n/a
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EXTINGUISHING MEDIA
non-flammable. No fire or explosion hazard.

SPECIAL FIREFIGHTING PROCEDURES
none

UNUSUAL FIRE OR EXPLOSION HAZARDS
none

IV. HEALTH HAZARD INFORMATION

HAZARD BY ROUTES OF EXPOSURE (Indicate chronic and acute)

INHALATION - Chronic - Avoid inhalation. Overexposure can cause asbestosis, a scarring of the lungs. Pleural thickening, effusion and plaques are non-disabling conditions, seen separately or together that have been associated with exposure. The IARC has determined that there is sufficient evidence for the carcinogenicity of asbestos in humans. Caution is advised as breathing asbestos may cause serious bodily harm.

INGESTION
no increased hazard evidenced.

EYE

Acute - may cause eye irritation.

SKIN CONTACT/ABSORPTION

Acute - may cause skin irritation.

SIGNS AND SYMPTOMS ASSOCIATED WITH EXPOSURE OVER TLV - Asbestosis is associated with symptoms of labored breathing, chest pain, weakness and chest tightness. Symptoms are not usually manifest until 15-20 years after exposure.

MEDICAL CONDITIONS WHICH MAY BE AGGRAVATED

Respiratory ailments.

JMM 00000296

ANY OF PART I LISTED AS CARCINOGENS? (NTP, IARC, OSHA)

Yes

NOV. 25 1985

HEALTH HAZARD INFORMATION CONTINUED ON BACK

VI. HEALTH HAZARD INFORMATION (Continued)

EMERGENCY/FIRST AID PROCEDURES

INHALATION—Avoid breathing dust when handling, dumping, and mixing. Use respirator if airborne concentrations exceed OSHA limits (see Sec. VI).

INGESTION

EYE CONTACT

In case of eye irritation, gently rinse with water. If irritation persists get medical help.

SKIN CONTACT

Remove asbestos slivers from skin promptly. If irritation persists get medical help.

SKIN ABSORPTION

n/a

VI. CONDITIONS FOR SAFE USE (When over TLV)

RESPIRATORY PROTECTION—Reusable or single use air purifying respirator—for exposures which do not exceed the PEL (see sec. 1) by more than 10X. Powered air purifying respirator—for exposures more than 10X but less than 100X, the PEL. Type "C" continuous flow or pressure demand, supplied air respirator for exposures more than 100X the PEL. All respirators must be NIOSH approved.

EYE PROTECTION

(see "Other..." this Sec.)

PROTECTIVE GLOVES

(See "Other..." this Sec.)

OTHER PROTECTIVE CLOTHING/EQUIPMENT—If the ceiling concentration (see Sec. 1) limit is exceeded, clothing providing whole body covering must be supplied and its use required.

VENTILATION REQUIREMENTS—Local ventilation if engineering controls are inadequate. (See Title 29 CFR Part 1910.1001, c (1) & (ii)).

VII. REACTIVITY DATA

IS MATERIAL STABLE?

Yes

WILL HAZARDOUS POLYMERIZATION OCCUR?

No

INCOMPATIBILITY

n/a

CONDITIONS TO AVOID

Avoid creating and breathing dust.

HAZARDOUS DECOMPOSITION PRODUCTS

None

VIII. SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS SPILLED OR RELEASED—Avoid creating or breathing dust. Collect dust by HEPA vacuum or in wet state (wet sweeping, wet wiping) to prevent emission of airborne fibers.

WASTE DISPOSAL METHOD—Bags, waste and scrap should be disposed of in a manner which all avoid airborne concentrations of asbestos, such as the use of dust-tight trash bags or containers. Ensure that disposal complies with all applicable federal, state and local regulations.

RCRA REGULATED

☐ Yes ☐ No

RCRA NUMBER

CERCLA (Superfund) REPORTABLE QUANTITY

DOT REGULATED

☒ Yes ☐ No

DOT PROPER SHIPPING NAME

Asbestos

DOT HAZARD CLASS

ORM-C

DOT NUMBER

—

IX. SPECIAL PRECAUTIONS

SPECIAL PRECAUTIONS FOR HANDLING AND STORAGE—Do not create or breath dust. Do not dry sweep or use air hose for cleaning. Do not take protective clothing or equipment home. Use no hooks in loading or unloading. Protect containers from damage. Prevent dust release without providing proper enclosure or control measures. Use dust suppression control measures, such as ventilation or wet working at all stages of handling, use and disposal. Follow good housekeeping practices, such as wet wiping dusty surfaces, to prevent accumulation of asbestos containing dust. Avoid inhalation.

OTHER PRECAUTIONS—Substantial medical evidence indicates that smoking increases the risk from asbestos exposure. Those working with asbestos should not smoke.

PREPARED BY

PHONE NO.

TITLE

While the information and recommendations set forth herein are believed to be accurate as of the date hereof, THE MANUFACTURER MAKES NO WARRANTY WITH RESPECT THERETO AND DISCLAIMS ALL LIABILITY FROM RELIANCE THEREON.

JMM 00000297

BRAKEGATE LIMITED

6 Broad Street Place, London EC2M 7ND England

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Transvaal, South Africa
Tel (27-11) 788-4313 - Tlx 4-27186 SA

U.S.A.: P.O. Box 14085
West Allis, Wisconsin 53214
414/363-2020

November 21, 1985

Mr. E. E. Wang
J-M A/C PIPE CORPORATION
1051 Sperry Road
Stockton, CA 95206

Subject: C&G Asbestos Fiber

Dear Mr. Wang:

Please find enclosed manufacturer supplied Material Safety
Data Sheet to comply with OSHA enacted Hazard Communication
Standard (29 CFR 1910.1200).

Should you have any questions or need further information,
please advise us.

Sincerely yours,

BRAKEGATE LIMITED

B. Heering

Enclosure

cc: Darrel Wilkinson, Stockton
Harold Stone, Denison

NOV. 25 1985

Director: Bernard Heering

JMM 00000298



MATERIAL SAFETY DATA SHEET

Date of Preparation

November 12, 1985

Emergency Telephone Number

"CHEMTREC" - 1-800/424-9300

SECTION I -- PRODUCT IDENTIFICATION

Chemical Name & Synonyms: Chrysotile Asbestos

Trade Name & Synonyms: Asbestos

Chemical Family: Fibrous Mineral Silicates

Typical Formula: $Mg_3(Si_2O_5)(OH)_4$

SECTION II -- HAZARDOUS INGREDIENTS

<u>Ingredient</u>	<u>Percent</u>	<u>Occupational Exposure Limits</u>		<u>Vapor Pressure</u>
		<u>PEL</u>	<u>TLV</u>	
Chrysotile Asbestos	Approx. 100%	2 fibres/cc 8 hr. TWA	Chrysotile- 2.0 fibres/cc	N.A.
C.A.S. Number:		Ceiling Con- centration	ACGIH, Documentation of TLVs at 27	
#12001-29-5		10 fibres/cc		
U.N. Shipping Number:		OSHA Standard at 29 CFR		
2590 (white asbestos)		1910.1001		
H.M. I.S. Rating Numbers:				
Health-*(Possible Chronic Effects)				
Flammability-0				
Reactivity-0		Fibres measured are those longer than 5 microns.		

SECTION III -- PHYSICAL DATA

Boiling Range: N/A	Vapor Density: N/A
Volatile Volume: N/A	Evaporation Rate
Specific Gravity ($H_2O=1$): 2.4-2.6	Faster/Slower than Ether; N/A
Appearance and Odor:	Wt/Gal: Variable
White fibrous dry material-no odor	

JMM 00000299

Material Safety Data Sheet

November 12, 1985

Page 2

SECTION IV — FIRE AND EXPLOSION HAZARD DATA

Flammability Classification:
(Non-flammable)

OSHA: N/A

DOT: N/A

Flash Point: N/A

LEL: N/A

Extinguishing Media: (Use that which is appropriate for surrounding fire)

Foam "Alcohol" Foam CO₂ Dry Chemical Water Fog Other

Unusual Fire and Explosion Hazards: None

Special Firefighting Procedures: None

Section V — HEALTH HAZARD DATA

Effects of Overexposure:

Acute - May cause eye and/or skin irritation.

Chronic - Overexposure to asbestos can cause asbestosis, a scarring of the lungs. Pleural thickening, effusion, and plaques are nondisabling conditions, seen separately or together, that have been associated with asbestos exposure. The International Agency for Research on Cancer (IARC) has determined that there is sufficient evidence for the carcinogenicity of asbestos in humans.

Signs and Symptoms of Overexposure:

Asbestosis is associated with symptoms of labored breathing, chest pain, weakness and chest tightness. Symptoms are not usually manifest until 15-20 years after exposure.

Primary Route(s) of Entry: Dermal

Inhalation

Ingestion

Emergency and First Aid Procedures:

Remove asbestos slivers from skin promptly. In case of eye irritation, gently rinse with water. If irritation persists, get medical help.

Special Note: A medical surveillance program must be established for asbestos-exposed persons in accordance with the requirements of the Occupational Safety and Health Administration's standard for asbestos (29 CFR Part 1910.1001).

SECTION VI -- REACTIVITY DATA

Stability: Stable

Hazardous Polymerization: Will Not Occur

Hazardous Decomposition Products: None

Conditions to Avoid: Avoid creating and breathing dust.

Incompatibility (Materials to Avoid): None

JMM 00000300

SECTION VII — SPILL OR LEAK PROCEDURES

Steps to be Taken in Case Material is Released or Spilled:

Avoid creating dust. Collect dust by HEPA vacuum or in the wet state (wet sweeping, wet wiping) to prevent emission of airborne fibres.

Waste Disposal Method: Found at 40 CFR

§ 61.152 Standard for waste disposal for manufacturing demolition, renovation, spraying, and fabricating operations.

Each owner or operator of any source covered under the provisions of §§ 61.144-61.149 shall:

(a) Deposit all asbestos-containing waste material at waste disposal sites operated in accordance with the provisions of § 61.154; and

(b) Discharge no visible emissions to the outside air during the collection, processing (including incineration), packaging, transporting, or deposition of any asbestos-containing waste material generated by the source, or use one of the disposal methods specified in paragraphs (b)(1), (2), or (3) of this section, as follows:

(1) Treat asbestos-containing waste material with water:

(i) Mix asbestos waste from control devices with water to form a slurry; adequately wet other asbestos-containing waste material; and

(ii) Discharge no visible emissions to the outside air from collection, mixing, and wetting operations; or use the methods specified by § 61.154 to clean emissions containing particulate asbestos material before they escape to, or are vented to, the outside air; and

(iii) After wetting, seal all asbestos-containing waste material in leak-tight containers while wet; and

(iv) Label the containers specified in paragraph (b)(1)(iii) as follows:

CAUTION

Contains Asbestos-

Avoid Opening or

Breaking Container

Breathing Asbestos is hazardous to Your Health

Alternatively, use warning labels specified by Occupational Safety and Health Standards of the Department of Labor, Occupational Safety and Health Administration (OSHA) under 29 CFR 1910.1007(g)(2)(ii).

(2) Process asbestos-containing waste material into nonfriable forms:

(i) Form all asbestos-containing waste material into nonfriable pellets or other shapes; and

(ii) Discharge no visible emissions to the outside air from collection and processing operations, or use the methods specified by § 61.154 to clean emissions containing particulate asbestos material before they escape to, or are vented to, the outside air.

(3) Use an alternative disposal method that has received prior approval by the Administrator.

§ 61.154 Active waste disposal sites.

To be an acceptable site for disposal of asbestos-containing waste material under §§ 61.151 and 61.152, an active waste disposal site must meet the requirements of this section.

(a) Either there must be no visible emissions to the outside air from any active waste disposal site where asbestos-containing waste material has been deposited, or the requirements of paragraph (c) or (d) of this section must be met.

(b) Unless a natural barrier adequately deters access by the general public, either warning signs and fencing must be installed and maintained as follows, or the requirements of paragraph (c)(1) of this section must be met.

(1) Warning signs must be displayed at all entrances and at intervals of 100 m (330 ft) or less along the property line of the site or along the perimeter of the sections of the site where asbestos-containing waste material is deposited. The warning signs must:

(i) Be posted in such a manner and location that a person can easily read the legend; and

(ii) Conform to the requirements of 51 cm x 38 cm (20" x 14") upright format signs specified in 29 CFR 1910.145(d)(4) and this paragraph; and

(iii) Display the following legend in the lower panel with letter sizes and styles of a visibility at least equal to those specified in this paragraph.

Legend	Message
Asbestos Waste Disposed See Do Not Create Dust	2.5 cm (1 inch) Same Sort, Color or Shape. 4.5 cm (1 7/8 inch) Same Sort, Color or Shape. 14 Point Gothic.

Spacing between any two lines must be at least equal to the height of the upper of the two lines.

(2) The perimeter of the disposal site must be fenced in a manner adequate to deter access by the general public.

(3) Upon request and supply of appropriate information, the Administrator will determine whether a fence or a natural barrier adequately deters access by the general public.

(c) Rather than meet the no visible emission requirement of paragraph (a) of this section, an active waste disposal site would be an acceptable site if at the end of each operating day, or at least once every 24-hour period while the site is in continuous operation, the asbestos-containing waste material which was deposited at the site during the operating day or previous 24-hour period is covered with either:

(1) At least 15 centimeters (6 inches) of compacted nonasbestos-containing material, or

(2) A resinous or petroleum-based dust suppression agent that effectively binds dust and controls wind erosion. This agent must be used as recommended for the particular dust by the manufacturer of the dust suppression agent. Other equally effective dust suppression agents may be used upon prior approval by the Administrator. For purposes of this paragraph, waste crankcase oil is not considered a dust suppression agent.

(d) Rather than meet the no visible emission requirement of paragraph (a) of this section, an active waste disposal site would be an acceptable site if an alternative control method for emissions that has received prior approval by the Administrator is used.

(Secs. 112 and 301(a) of the Clean Air Act as amended [42 U.S.C. 7412, 7601(a)])

(FR Doc. 84-6022 Filed 4-4-84; 8:12 am)
BILLING CODE 5560-50-01

SECTION VIII -- SAFE HANDLING AND USE INFORMATION

Respiratory Protection:

Reusable or single-use air purifying respirator -- for exposures which do not exceed the PEL by more than 10X.

Powered air-purifying respirator -- for exposures more than 10X, but less than 100X, the PEL.

Type "C" continuous flow or pressure-demand, supplied-air respirator -- for exposures more than 100X the PEL.

All respirators must be NIOSH/MSHA approved.

Ventilation: Local ventilation if engineering controls are inadequate.

Protective Gloves: (See "Other Protective Equipment")

Eye Protection: (See "Other Protective Equipment")

Other Protective Equipment:

If the ceiling concentration limit is exceeded, clothing providing whole body covering shall be supplied and its use required.

Hygienic Practices:

Do not create or breathe dust.
Do not dry sweep or use air hose for cleaning.
Do not take protective equipment or clothing home.
(See attached pamphlet, "Recommended Practices for Handling Asbestos Fiber".)

SECTION IX -- SPECIAL PRECAUTIONS

Precautions to be Taken in Handling and Storing:

Use no hooks in loading and unloading.

Protect containers from damage.

Do not open containers in a manner that can release dust without providing proper enclosure or control measures.

Use dust suppression control measures, such as ventilation or wet-working, at all stages of asbestos handling, use and disposal.

Follow good housekeeping practices, such as wet-wiping dusty surfaces, to prevent accumulation of asbestos-containing dust.

Avoid inhalation of asbestos.

Other Precautions: Smoking greatly increases risk to health.

While the information and recommendations set forth herein are believed to be accurate as of the date hereof, CALAVERAS ASBESTOS, LTD. MAKES NO WARRANTY WITH RESPECT THERETO AND DISCLAIMS ALL LIABILITY FROM RELIANCE THEREON.
--

Recommended Practices for Handling Asbestos Fiber

Protection from fire, absorption of heat from friction, high tensile strength as a reinforcing material, resistance to corrosion and insulation from heat, cold and noise are among the properties of asbestos that result in its use in hundreds of industrial applications and home products.

Asbestos is the name given to a group of hydrated silicate minerals that are characterized by fibrous crystallization. Though asbestos is fairly common to the earth's crust, not all deposits are of commercial value. Because asbestos is fibrous and, in a certain range of sizes, can enter the lungs, maximum care should be taken to avoid exposure to asbestos dust and the hazards to health that can result.

GENERAL PRECAUTIONS

In all stages of handling — packaging, transporting, unloading, storing, and in-part moving — asbestos fiber bags should be handled carefully and in such a manner as to prevent damage of bags and the generation of dust.

Damaged bags should be immediately repaired, resealed or put into closed receptacles. Any spillage of asbestos fiber should be cleaned up immediately — either by vacuum equipment or, after thoroughly wetting, by sweeping — and should be deposited in suitable closed receptacles.

Consult and observe OSHA regulations governing asbestos in the workplace; EPA rules on discharge to the ambient air; and other local codes, rules or regulations controlling the handling and use of asbestos fiber.

UNLOADING

Unitized loads should be lifted intact to and from holds of ships, and off and on land transport by forklift trucks or other suitable handling equipment.

Care should be taken to avoid puncturing the asbestos fiber bags during unloading from ships, railroad cars, trucks or other modes of transportation. Hooks or other sharp instruments should not be used. Loose fiber accumulated during transit should be picked up by vacuum cleaner before unloading.

STORAGE

For storage, fiber bags should be stacked and moved with care to avoid breakage; protected from puncture by moving vehicles; and, if possible, should be isolated from traffic in the warehouse and covered to prevent dust generation. To prevent deterioration of stored bags, the principle of first-in, first-out should be followed.

HANDLING

Maximum possible enclosure and fully effective dust control systems should be provided at all stages of in-plant handling where dust is created, such as in bag opening, fiber dumping and bag disposal operations. Loose fiber should be cleaned from work areas by vacuum cleaner, or after thoroughly wetting, by sweeping, and then deposited in covered receptacles.

PROTECTIVE EQUIPMENT

Wearing of respiratory equipment approved for protection against asbestos dust should be required at all stages of asbestos fiber handling where quantities of dust are generated which cannot be kept within the permissible exposure limits by dust control equipment or other methods.

TRANSPORT

Where the use of asbestos requires the transport of loose fiber in open carts or buggies, covers should be used to prevent spilling and dust generation.

WASTE MATERIALS

Waste materials, such as collected dust and empty fiber bags, should be placed in special closed receptacles and disposed of in such a manner as to prevent the release of dust. Safety practices outlined above in the **HANDLING** and **PROTECTIVE EQUIPMENT** sections should be followed during these operations.

All dust from exhaust systems should be collected and safely disposed of, being careful not to release dust into the outside air. Particular attention should be paid to the protection of employees whose job it is to dispose of collected dust from fabric filter dust collection and similar cleaning operations.

Additional copies of this pamphlet and informational materials listed below are available from the Asbestos Information Association/North America:

- "What You Should Know About Asbestos and Health" — an employee information pamphlet.
- Recommended Work Practices
 - Fabrication and Use of Asbestos Paper Products
 - Shop and Field Fabrication of Asbestos Sheet Products
 - Molding and Fabrication of Asbestos Containing Plastic Products
 - Fabrication and Use of Asbestos Friction Materials
 - Use and Handling of Asbestos Textile Products
- "Federal Regulations — Asbestos" — a comprehensive handbook of regulations issued by Federal regulatory agencies.
- "Asbestos in the Atmosphere — A hazard to health"? — a general information pamphlet.
- "Asbestos in Water — A hazard to health"? — a general information pamphlet.
- Poster Series — Asbestos Health Hints for the Workplace — 15" x 23"
 - Vacuum dust spills . . . never dry sweep!
 - When required, always use your respirator!
 - If you don't smoke now, don't start. If you do smoke, quit!
 - Report unsafe conditions immediately!
 - Repair broken bags immediately!
 - Use change rooms and lockers! Leave dusty clothes at work!
- Poster — Recommended Practices for Handling Asbestos Fiber — 11" x 14"



For further information:

Asbestos Information Association/North America
1835 K Street, N.W.
Washington, D.C. 20006

Recommended Practices for

Handling Asbestos Fiber



DEC. 02 1985

Recommended Practices for Handling Asbestos Fiber

Protection from fire, absorption of heat from friction, high tensile strength as a reinforcing material, resistance to corrosion and insulation from heat, cold and noise are among the properties of asbestos that result in its use in hundreds of industrial applications and home products.

Asbestos is the name given to a group of hydrated silicate minerals that are characterized by fibrous crystallization. Though asbestos is fairly common to the earth's crust, not all deposits are of commercial value. Because asbestos is fibrous and, in a certain range of sizes, can enter the lungs, maximum care should be taken to avoid exposure to asbestos dust and the hazards to health that can result.

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MATERIAL SAFETY DATA SHEET

SPEC/MSDS NUMBER
Rev. 3

DATE
Dec 1987

PRODUCT IDENTIFICATION

TRADE NAME Asbestos	GENERIC NAME CROCIDOLITE Asbestos
MANUFACTURER'S NAME Grigqualand Exploration & Finance Corp.	CAS NUMBER 1332-21-4
ADDRESS (STREET) P. O. Box 69	PHONE NUMBER (EMERGENCY) (011-27-11) 339-5458
CITY Kuruman, Cape Province, RSA	STATE ZIP
	CHEMICAL STRUCTURE $\text{Na}_2\text{Fe}_5(\text{OH})\text{Si}_8\text{O}_{22}$

I. PRODUCT INGREDIENTS

CHEMICAL AND/OR COMMON NAME	CAS NUMBER	%	TLV/PEL
Crocidolite Asbestos	1332-21-4	100.0	*
* Occupational Exposure Limits			
PEL	TLV		
0.2 f/cc - 8 Hr. TWA	0.2 f/cc		
ACGIH. Documentation of TLV's at 27			
OSHA Standard at 29 CFR 1910.1001			
(Fibers measured are those longer than 5 microns.)			

II. PHYSICAL DATA

BOILING POINT N/A	VAPOR PRESSURE N/A	SPECIFIC GRAVITY 3.2-3.3	MELTING POINT N/A
SOLUBILITY IN WATER N/A	VAPOR DENSITY (AIR = 1) N/A	PERCENT VOLATILE N/A	EVAPORATION RATE (-1) N/A

APPEARANCE AND ODOR

Blue Fibrous dry material - no odor.

III. FIRE AND EXPLOSION DATA

FLASH POINT N/A	FLAMMABLE LIMITS N/A	FLAMABLE LIMITS N/A	UEL N/A	UEL N/A
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EXTINGUISHING MEDIA

Non-flammable.

SPECIAL FIREFIGHTING PROCEDURES

None

UNUSUAL FIRE OR EXPLOSION HAZARDS

None

IV. HEALTH HAZARD INFORMATION

HAZARD BY ROUTES OF EXPOSURE (Indicate chronic and acute)

INHALATION Chronic-Avoid inhalation. Overexposure can cause asbestosis, a scarring of the lungs. Pleural thickening, effusion and plaques are nondisabling conditions, seen separately or together, that have been associated with exposure. The IARC has determined that there is sufficient evidence for the carcinogenicity of asbestos in humans. Caution is advised as breathing asbestos may cause serious bodily harm.

INGESTION

No increased hazard evidenced.

EYE

Acute - may cause eye irritation.

SKIN CONTACT/ABSORPTION

Acute - may cause skin irritation.

SIGNS AND SYMPTOMS ASSOCIATED WITH EXPOSURE OVER TLV Asbestosis is associated with symptoms of labored breathing, chest pain, weakness and chest tightness. Symptoms are not usually manifest until 15-20 years after exposure.

MEDICAL CONDITIONS WHICH MAY BE AGGRAVATED

Respiratory ailments.

ANY OF PART I LISTED AS CARCINOGENS? (NTP, IARC, OSHA)

Yes.

JMM 00000306

JAN. 02 1987

HEALTH HAZARD INFORMATION CONTINUED ON BACK

V • HEALTH HAZARD INFORMATION (Continued) SEE ATTACHED FOR FURTHER INFORMATION.

EMERGENCY/FIRST AID PROCEDURES

INHALATION Avoid breathing dust when handling, dumping and mixing. Use respirator if airborne concentrations exceed OSHA limits (see Sec. VI).

INGESTION

EYE CONTACT

In case of eye irritation, gently rinse with water. If irritation persists, get medical help.

SKIN CONTACT

Remove slivers from skin promptly. If irritation persists get medical help.

SKIN ABSORPTION

N/A

VI • CONDITIONS FOR SAFE USE (When over TLV) SEE ATTACHED FOR FURTHER INFORMATION.

RESPIRATORY PROTECTION
See attached.

EYE PROTECTION

See "Other . . ." this Section.

PROTECTIVE GLOVES

See "Other . . ." this Section.

OTHER PROTECTIVE CLOTHING/EQUIPMENT If the PEL limit is exceeded, clothing providing whole body covering must be supplied and its use required. Employees who work in areas where airborne VENTILATION REQUIREMENTS exposure is above the PEL must shower at the end of the work shift. Local ventilation if engineering controls are inadequate (See OSHA Title 29 CFR Part 1910.1001, c (i), (ii)).

VII • REACTIVITY DATA

IS MATERIAL STABLE?

Yes

WILL HAZARDOUS POLYMERIZATION OCCUR?

No

INCOMPATIBILITY

N/A

CONDITIONS TO AVOID

Avoid creating and breathing dust.

HAZARDOUS DECOMPOSITION PRODUCTS

None

VIII • SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS SPILLED OR RELEASED Avoid creating or breathing dust. Collect dust by HEPA Vacuum or in wet state (wet sweeping, wet wiping) to prevent emission of airborne fibers.

WASTE DISPOSAL METHOD Bags, waste and scrap should be disposed of in a manner which all avoid airborne concentrations of asbestos, such as the use of dust-tight trash bags or containers. Refer to and comply with all applicable federal, state and local regulations.

RCRA REGULATED
☐ Yes ☒ No

RCRA NUMBER

CERCLA (Superfund) REPORTABLE QUANTITY

DOT REGULATED
XX Yes ☐ No

DOT PROPER SHIPPING NAME
Asbestos

DOT HAZARD CLASS
ORM-C

DOT NUMBER

IX • SPECIAL PRECAUTIONS SEE ATTACHED FOR FURTHER INFORMATION.

SPECIAL PRECAUTIONS FOR HANDLING AND STORAGE Do not create or breath dust. Do not dry sweep or use air hose for cleaning. Do not take protective clothing or equipment home. Use no hooks in loading or unloading. Protect containers from damage. Do not open containers in a manner that can release dust without providing proper enclosure or control measures. Use dust supression control measures, such as ventilation or wetworking at all stages of handling, use and disposal. Follow good house-keeping practices, such as wet wiping dusty surfaces, to prevent accumulation of asbestos containing dust. Avoid inhalation.

OTHER PRECAUTIONS Substantial medical evidence indicates that smoking increases the risk from asbestos exposure. Those working with asbestos should not smoke.

PREPARED BY

PHONE NO.

TITLE

JMM 00000307

While the information and recommendations set forth herein are believed to be accurate as of the date hereof, THE MANUFACTURER MAKES NO WARRANTY WITH RESPECT THERETO AND DISCLAIMS ALL LIABILITY FROM RELIANCE THEREON.

MATERIAL SAFETY DATA SHEET

Section V - Health Hazard Information (continued)

Special Note: A medical surveillance program must be established for asbestos-exposed persons in accordance with the requirements of the Occupational Safety and Health Administration's standard for asbestos (29 CFR Part 1910.1001).

Section VI - Conditions for Safe Use (When over TLV) (continued)

Respiratory Protection:

Airborne Concentration
of Asbestos:

Required Respirator:

Not in excess of 2 f/cc
(10 x PEL).

1. Half-mask air-purifying respirator equipped with high-efficiency filters.

Not in excess of 10 f/cc
(50 x PEL).

1. Full facepiece air-purifying respirator equipped with high-efficiency filters.

Not in excess of 20 f/cc
(100 x PEL).

1. Any powered air-purifying respirator equipped with high-efficiency filters.
2. Any supplied-air respirator operated in continuous flow mode.

Not in excess of 200 f/cc
(1000 x PEL)

1. Full facepiece supplied-air respirator operated in pressure demand mode.

Greater than 200 f/cc
(1000 x PEL or unknown
concentration.)

1. Full facepiece supplied air respirator operated in pressure demand mode equipped with an auxiliary positive pressure self-contained breathing apparatus.

-
- Note:
- a. Respirators assigned for higher environmental concentrations may be used at lower concentrations.
 - b. A high efficiency filter means a filter that is at least 99.97 percent efficient against mono-dispersed particles of 0.2 micrometers or larger.
 - c. All respirators must be NIOSH/MSHA approved under 30 CFR Part 11.

Section IX - Special Precautions (continued)

Note: 29 CFR 1910.1001 contains other specific requirements and should be consulted in its entirety prior to working with asbestos.

JMM 00000308

RECEIVED JAN 02 1987

BRAKEGATE LIMITED

6 Broad Street Place, London EC2M 7ND England

U.S.A.: P.O. Box 14005
West Allis, Wisconsin 53214
414/383-2020

December 22, 1986

Mr. Paul Huang
J-M A/C PIPE CORPORATION
1051 Sperry Road
Stockton, CA 95206

Subject: MSDS Update

Dear Paul:

Please find enclosed an updated MSDS for your attention on:

Crocidolite Asbestos Fiber

The MSDS provides information pertaining to OSHA rulemaking 29 CFR parts 1910 and 1926 PEL revision. We strongly recommend you refer directly to the OSHA rulemaking for compliance requirements when handling, using and disposing of asbestos.

While Brakegate Ltd. believes the MSDS information and recommendations are accurate as of the date thereof, it makes no warranty with respect thereto and disclaims all liability from reliance thereon.

Sincerely yours,

BRAKEGATE LIMITED

B. Heering

B. Heering

cc: Darrel Wilkinson, Stockton

Enclosure - MSDS Rev. No. 3

JMM 00000309

JAN. 02 1987 Director: Bernard Heering

J-M Manufacturing Co., Inc. Internal Correspondence

To : Ernie Pronske
From : E. E. Wang
Copies : Wilfred Wang, C.J. Chen, All Plant Managers
Subject : J-M's Material Safety Data Sheets

Date: January 21, 1986

To comply with the OSHA Hazard Communication Standard, I have revised our MSDS's. Enclosed please find five different MSDS's to be duplicated and distributed to our customers through J-M sales representatives. (Please duplicate copies as many as-you need.)

Copies of those revised MSDS's should be provided to our customers/distributors with the next shipment of our products. This is required by law even when the customers/distributors have not requested our MSDS's.

E. E. Wang
EEW:rac

JMM 00000310

JAN 21 1986

U.S. DEPARTMENT OF LABOR
Occupational Safety and Health Administration

Form Approved
OMB No. 44-R1387

MATERIAL SAFETY DATA SHEET

Required under USDL Safety and Health Regulations for Ship Repairing,
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

SECTION I

MANUFACTURER'S NAME Griqualand Exploration and Finance Corp.		EMERGENCY TELEPHONE NO. (27-11) 39-5458
ADDRESS (Number, Street, City, State, and ZIP Code) P. O. Box 69, Kuruman, Cape Province, Rep. of South Africa		
CHEMICAL NAME AND SYNONYMS (Crocidolite Asbestos)		TRADE NAME AND SYNONYMS Asbestos
CHEMICAL FAMILY Fibrous Mineral Silicate	FORMULA $\text{Na}_2\text{Fe}_5(\text{OH})\text{Si}_4\text{O}_{11})_2$	

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS		N/A	BASE METAL		N/A
CATALYST		N/A	ALLOYS		N/A
VEHICLE		N/A	METALLIC COATINGS		N/A
SOLVENTS		N/A	FILLER METAL PLUS COATING OR CORE FLUX		N/A
ADDITIVES		N/A	OTHERS		N/A
OTHERS					
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES				%	TLV (Units)
Crocidolite Asbestos Fiber Approx. 100 %					*
(*For TLV - See Section V)					

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	N/A	SPECIFIC GRAVITY (H ₂ O=1)	3.2-3.3
VAPOR PRESSURE (mm Hg.)	N/A	PERCENT VOLATILE BY VOLUME (%)	N/A
VAPOR DENSITY (AIR=1)	N/A	EVAPORATION RATE (_____ =1)	N/A
SOLUBILITY IN WATER	None		
APPEARANCE AND ODOR Blue fibrous dry material - no odor.			

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	N/A	FLAMMABLE LIMITS	N/A	Lel	Uel
EXTINGUISHING MEDIA Material is non-flammable. No fire or explosion hazard.					
SPECIAL FIRE FIGHTING PROCEDURES See Above.					
UNUSUAL FIRE AND EXPLOSION HAZARDS See Above.					

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE OSHA Exposure Limits Effective 7/1/76. The 8 hr. time-weighted average airborne concentrations of asbestos fibers to which any employee may be exposed shall not exceed two fibers, longer than 5 micrometers, per cubic centimeter of air. Ceiling Concentrations. No employee shall be exposed at any time to airborne concentrations of asbestos fibers in excess of 10 fibers, longer than 5 micrometers, per cubic centimeter of air. (Refer to OSHA Stand. for Exposure to Asbestos Dust, Fed. Register, Vol. 37, No. 110 June 7, 1972, Para. (h)(2).

Avoid breathing excessive dust when handling, dumping and mixing. See Caution Label on bag. Breathing asbestos dust may cause serious bodily harm.

SECTION VI - REACTIVITY DATA

STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	
INCOMPATIBILITY (Materials to avoid) N/A			
HAZARDOUS DECOMPOSITION PRODUCTS None			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED
Vacuum spillage. Repair broken bags. If sweeping is necessary, wet down spillage.
Use approved respiratory equipment when required.

WASTE DISPOSAL METHOD
Disposal of waste in accordance with OSHA Standard for Exposure to Asbestos Dust, Federal Register, Volume 37, No. 110 - Wednesday, June 7, 1972, paragraph (h)(2).

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type) Use respirators as recommended by the OSHA Standard for Exposure to Asbestos Dust, Federal Register, Vol. 37, No. 110 - 6/7/72 Para. (d).		
VENTILATION	LOCAL EXHAUST	SPECIAL
	MECHANICAL (General) Control with mechanical dust collection equipment to within TLV. (See Amer. Nat'l Std. Institute Booklet, 79.2-1971).	
PROTECTIVE GLOVES		EYE PROTECTION
OTHER PROTECTIVE EQUIPMENT Use special clothing as required by OSHA Standard for Exposure to Asbestos Dust, Fed. Register, Vol. 37, No. 110 - 6/7/72, paragraph (d).		

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING
Maintain good housekeeping practices. Vacuum clean waste and place in closed containers.

OTHER PRECAUTIONS
SEE CAUTION LABEL ON BAG.

While the information and recommendations set forth herein are believed to be accurate as of the date hereof, GRIQUALAND EXPLORATION AND FINANCE CORP. MAKES NO WARRANTY WITH RESPECT THERETO AND DISCLAIMS ALL LIABILITY FROM RELIANCE THEREON.

Form OSHA-20
 Rev. May 72

JMM 00000312

U.S. DEPARTMENT OF LABOR
Occupational Safety and Health Administration

Form Approved
OMB No. 44-4337

MATERIAL SAFETY DATA SHEET

Required under USDL Safety and Health Regulations for Ship Repairing,
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

MINED BY: Cape Asbestos South SECTION I	
MANUFACTURED BY Africa (Pty) Limited	EMERGENCY TELEPHONE NO.
SOLD BY: Associated Mineral Corp. A. G.	(312) 726-8515
ADDRESS (Number, Street, City, State, and ZIP Code) c/o Continental Products Corp., 150 N. Wacker Dr., Chgo, Ill. 60606	
CHEMICAL NAME AND SYNONYMS CROCIDOLITE ASBESTOS	TRADE NAME AND SYNONYMS N/A
CHEMICAL FAMILY AMPHIBOLE	FORMULA $Na_2(FeMg)_5Si_8O_{22}(OH)_2$

SECTION II - HAZARDOUS INGREDIENTS					
PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS			BASE METAL		
CATALYST			ALLOYS		
VEHICLE			METALLIC COATINGS		
SOLVENTS			FILLER METAL PLUS COATING OR CORE FLUX		
ADDITIVES			OTHERS		
OTHERS					
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES				%	TLV (Units)

SECTION III - PHYSICAL DATA			
BOILING POINT (°F.)	N/A	SPECIFIC GRAVITY (H ₂ O=1)	3.3-3.4
VAPOR PRESSURE (mm Hg.)	N/A	PERCENT. VOLATILE BY VOLUME (%)	N/A
VAPOR DENSITY (AIR=1)	N/A	EVAPORATION RATE (____ "1)	
SOLUBILITY IN WATER	Negligible		
APPEARANCE AND ODOR Blue fibre - no odor			

SECTION IV - FIRE AND EXPLOSION HAZARD DATA			
FLASH POINT (Method used)	FLAMMABLE LIMITS	Lel	Uel
EXTINGUISHING MEDIA			
SPECIAL FIRE FIGHTING PROCEDURES N/A			
UNUSUAL FIRE AND EXPLOSION HAZARDS Material totally non inflammable and non explosive.			

1K-1700

SECTION V - HEALTH HAZARD DATA	
THRESHOLD LIMIT VALUE	ACGIH - 2mppcf
EFFECTS OF OVEREXPOSURE	Only long term effects
EMERGENCY AND FIRST AID PROCEDURES	N/A

SECTION VI - REACTIVITY DATA			
STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	N/A
INCOMPATIBILITY (Materials to avoid)			
HAZARDOUS DECOMPOSITION PRODUCTS			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	

SECTION VII - SPILL OR LEAK PROCEDURES	
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED	Rebag in impermeable bags
WASTE DISPOSAL METHOD	Dusty waste to be disposed of in sealed impermeable containers.

SECTION VIII - SPECIAL PROTECTION INFORMATION		
RESPIRATORY PROTECTION (Specify type) Type specified for asbestos dust by U.S. Bureau of Mines.		
VENTILATION	LOCAL EXHAUST	SPECIAL
	MECHANICAL (General) Where practicable	OTHER
PROTECTIVE GLOVES		EYE PROTECTION
OTHER PROTECTIVE EQUIPMENT Overalls and headgear		

SECTION IX - SPECIAL PRECAUTIONS	
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING	Store in impermeable bags or containers which do not permit the escape of dust.
OTHER PRECAUTIONS	

J-M Manufacturing Co., Inc.

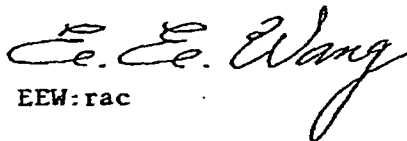
Internal Correspondence

To : Ernie Pronske
From : E. E. Wang
Copies : Wilfred Wang, C.J. Chen, All Plant Managers
Subject : J-M's Material Safety Data Sheets

Date: January 21, 1986

To comply with the OSHA Hazard Communication Standard, I have revised our MSDS's. Enclosed please find five different MSDS's to be duplicated and distributed to our customers through J-M sales representatives. (Please duplicate copies as many as-you need.)

Copies of those revised MSDS's should be provided to our customers/distributors with the next shipment of our products. This is required by law even when the customers/distributors have not requested our MSDS's.


EEW:rac

JAN 21 1986

JMM 00000315



MATERIAL SAFETY DATA SHEET

PREPARED BY
Dr. E.E. Wang

DATE
1-30-87

SECTION I

Manufacturer's Name, Address, and Phone Number

J-M A/C PIPE CORPORATION

1051 Sperry Road, Stockton, CA 95206

(209) 982-1500

Product Trade Name and Synonyms

TRANSITE Pipe

Chemical Name and Synonyms

Asbestos-Cement Pipe

Chemical Family

Mineral

Formula

N/A

SECTION II: INGREDIENTS

Substance	CAS #	WT. %
Asbestos (Chrysotile) * Q	12001-29-5	11
Asbestos (Crocidolite) * 10	1332-21-4	4
Silica (Crystalline)	14803-60-7	35
Portland Cement	None	50

SECTION III: OCCUPATIONAL EXPOSURE LIMITS

Substance	OSHA's PEL	ACGIH's TLV	Listed as Carcinogen
Asbestos (Chrysotile)	0.2 f/cc	2 f/cc	Yes
Asbestos (Crocidolite)	0.2 f/cc	0.2 f/cc	Yes
Silica (Crystalline) (10* or 30** mg/M ³) / (%SiO ₂)	Same as PEL	Same as PEL	No
Portland Cement	50 mgpcf	5* or 10** mg/M ³	No
* As respirable dust; ** As total dust			
*** Asbestos fibers measured are those longer than 5 micrometers.			
Note: PEL and TLV refer to 8-hr time weighted average			

SECTION IV: PHYSICAL DATA			
Boiling Point (°F)	N/A	Specific Gravity (H ₂ O=1)	1.35
Vapor Pressure (mm Hg)	N/A	Percent, Volatile by Volume (%)	N/A
Vapor Density (Air = 1)	N/A	Evaporation Rate (=1)	N/A
Solubility in Water	N/A		
Appearance and Odor	Grayish-white pipe; odorless		

SECTION V: FIRE AND EXPLOSION HAZARD DATA							
Flash Point (Method Used)	N/A	Flammable Limits	<table border="1"> <tr> <td>Lel</td> <td>Uel</td> </tr> <tr> <td>N/A</td> <td>N/A</td> </tr> </table>	Lel	Uel	N/A	N/A
Lel	Uel						
N/A	N/A						
Extinguishing Media	N/A						
Special Fire Fighting Procedures	N/A						
Unusual Fire and Explosion Hazards	None						

SECTION VI: REACTIVITY DATA			
Stability		Conditions to Avoid	
		Power driven saws with	
		abrasive discs should NOT be used for dry cutting or leveling	
		asbestos-cement pipe. Always avoid creating and breathing	
		dust.	
Incompatibility (Materials to Avoid)		None	
Hazardous Decomposition Products		None	
Hazardous Polymerization	May Occur	Will Not Occur	X
Conditions to Avoid		N/A	

SECTION VII: HEALTH HAZARD DATA (See also Section XI)

Effects of Overexposure

Inhalation of excessive crystalline silica may cause silicosis. Overexposure to airborne asbestos fibers may cause pulmonary diseases (asbestosis, mesothelioma, pleural plaques, and lung cancer). Smoking greatly increases cancer risk from asbestos exposure. The descriptions and symptoms of the above mentioned diseases are given in Section XI.

Emergency and First Aid Procedures

Inhalation: Move person to fresh air.

Eyes: Wash with water for 15 minutes.

Skin: Clean area of contact.

Ingestion: Seek medical attention if necessary.

SECTION VIII: SPILL OR LEAK PROCEDURES

Steps to be Taken in Case Material is Released or Spilled

Pipe fragments and installation debris must be handled in a manner which avoids airborne dispersion of asbestos dust. Use wet or vacuum method for clean-up.

Waste Disposal Method

Comply with all applicable local, state, and federal regulations.

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SECTION IX: SPECIAL PROTECTION INFORMATION			
Respiratory Protection			
Not required when recommended work practices are followed.			
Ventilation	Local Exhaust		Special
	N/A		N/A
	Mechanical		Other
	N/A		N/A
Protective Gloves		Eye Protection	
Not required		Not required	
Other Protective Equipment			
Not required when recommended work practices are followed.			

SECTION X: SPECIAL PRECAUTIONS (See also Section XII)	
Precautions to be Taken in Handling and Storing	
Follow "Recommended Work Practices for A/C Pipe" published by A/C Pipe Producers Association.	
✕	
Other Precautions	
All tools which may release asbestos fibers in excess of the exposure limits shall be provided with local exhaust ventilation systems.	

REMARKS
This information is given without warranty, representation, inducement or license of any kind, except that it is accurate to the best of our knowledge or obtained from sources believed by us to be accurate, and we do not assume any legal responsibility for use or reliance upon same.

A/C PIPE

SECTION XI

HEALTH HAZARDS - DESCRIPTIONS AND SYMPTOMS

SILICOSIS

A disease due to breathing air containing crystalline silica, characterized anatomically by generalized fibrotic changes and the development of military nodulations in both lungs.

The symptoms include gradually increasing difficulty in breathing and non-productive cough, shortness of breath, decreased chest expansion, lessened capacity for work, absence of fever, and increased susceptibility to tuberculosis.

ASBESTOSIS

This is a chronic lung disease in which the lungs become scarred as a result of the biological reaction to inhaled asbestos. Damage to the lungs is irreversible and progressively disabling.

Affected individuals experience shortness of breath on exertion. Examining physicians may note a bluish color of the lips and tongue, an alteration in the nails, and hear crackles at the base of the lungs. The chest x-ray is found to have an increase in the profusion of small irregular opacities and deterioration may be noted in tests of lung function.

Although asbestosis does not necessarily lead to lung cancer, individuals with this disease are at high risk to develop cancer.

Mesothelioma

This is a malignant tumor of the thin membranes lining the chest and abdominal cavities. It is an extremely rare cancer in the general population and is almost invariably associated with asbestos exposure. It is a rapidly progressive disease leading to death within a year or two of appearance.

The first symptom may be shortness of breath or pain in the wall of the chest aggravated by deep breathing or abdominal pain varying from vague discomfort to severe spasms.

Pleural Plaques

The pleura are the membranes lining the chest cavity. Asbestos fibers reaching this cavity may produce scarring of these membranes. This is visible in the chest x-ray as a pleural thickening. If calcium salts become deposited in these areas, then pleural plaques are produced. Pleural thickening is a common complication of pulmonary asbestosis and these x-ray signs are often used as markers of asbestos exposure.

(X)

A/C PIPE

Lung Cancer

The symptoms include a cough, or a change in the cough habit, chest pain, and occasionally blood-streaked sputum coughed up from the lungs.

The asbestos-related lung cancer occurs more frequently in the lower lobes. Initial diagnosis is by chest x-ray.

SECTION XII

PRECAUTIONS FOR HANDLING ASBESTOS-CONTAINING PIPES

(Hygienic Practices)

In case of cutting or beveling asbestos-cement pipes, all hand or power-operated tools which may produce or release asbestos fibers should be provided with local exhaust ventilation systems.

Asbestos-containing material should be handled in a wet state sufficient to prevent the emission of airborne fibers.

Workers engaged in the demolition of asbestos-containing pipes should be provided with appropriate respiratory equipment approved by the Bureau of Mines or the National Institute for Occupational Safety and Health and special clothing such as coveralls or similar whole body clothing.

Asbestos-containing waste should be collected and disposed of in sealed impermeable bags, or other closed, impermeable containers.



MATERIAL SAFETY DATA SHEET

PREPARED BY
Dr. E.E. Wang
DATE
1-30-87

SECTION I

Manufacturer's Name, Address, and Phone Number

J-M A/C PIPE CORPORATION

1051 Soerry Road, Stockton, CA 95206

(209) 982-1500

Product Trade Name and Synonyms

TRANSITE Pipe

Chemical Name and Synonyms

Asbestos-Cement Pipe

Chemical Family

Mineral

Formula

N/A

SECTION II: INGREDIENTS

Substance	CAS #	WT. %
Asbestos (Chrysotile) * Q	12001-29-5	11
Asbestos (Crocidolite) * 10	1332-21-4	4
Silica (Crystalline)	14808-60-7	35
Portland Cement	None	50

SECTION III: OCCUPATIONAL EXPOSURE LIMITS

Substance	OSHA's PEL	ACGIH's TLV	Listed as Carcinogen
Asbestos (Chrysotile)	0.2 f/cc	2f/cc	Yes
Asbestos (Crocidolite)	0.2f/cc	0.2f/cc	Yes
Silica (Crystalline) (10* or 30** mg/M ³) / (%SiO ₂ +2)		Same as PEL	No
Portland Cement	50 mppcf	5* or 10**mg/M ³	No
*As respirable dust; **As total dust			
*** Asbestos fibers measured are those longer than 5 micrometers.			
Note: PEL and TLV refer to 8-hr time weighted average			

SECTION IV: PHYSICAL DATA			
Boiling Point (°F)	N/A	Specific Gravity (H ₂ O=1)	1.85
Vapor Pressure (mm Hg)	N/A	Percent, Volatile by Volume (%)	N/A
Vapor Density (Air = 1)	N/A	Evaporation Rate (=1)	N/A
Solubility in Water	N/A		
Appearance and Odor		Grayish-white pipe; odorless	

SECTION V: FIRE AND EXPLOSION HAZARD DATA			
Flash Point (Method Used)	N/A	Flammable Limits	Lel Uel N/A N/A
Extinguishing Media	N/A		
Special Fire Fighting Procedures	N/A		
Unusual Fire and Explosion Hazards			
None			

SECTION VI: REACTIVITY DATA			
Stability		Conditions to Avoid	
Stable	Unstable	Power driven saws with abrasive discs should NOT be used for dry cutting or beveling asbestos-cement pipe. Always avoid creating and breathing dust.	
X			
Incompatibility (Materials to Avoid)		None	
Hazardous Decomposition Products			
None			
Hazardous Polymerization	May Occur	Will Not Occur	X
Conditions to Avoid		N/A	

JMM 00000323

SECTION VII: HEALTH HAZARD DATA (See also Section XI)

Effects of Overexposure

Inhalation of excessive crystalline silica may cause silicosis. Overexposure to airborne asbestos fibers may cause pulmonary diseases (asbestosis, mesothelioma, pleural plaques, and lung cancer). Smoking greatly increases cancer risk from asbestos exposure. The descriptions and symptoms of the above mentioned diseases are given in Section XI.

Emergency and First Aid Procedures

Inhalation: Move person to fresh air.

Eyes: Wash with water for 15 minutes.

Skin: Clean area of contact.

Ingestion: Seek medical attention if necessary.

SECTION VIII: SPILL OR LEAK PROCEDURES

Steps to be Taken in Case Material is Released or Spilled

Pipe fragments and installation debris must be handled in a manner which avoids airborne dispersion of asbestos dust. Use wet or vacuum method for clean-up.

Waste Disposal Method

Comply with all applicable local, state, and federal regulations.

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SECTION IX: SPECIAL PROTECTION INFORMATION			
Respiratory Protection		<u>Not required when recommended work practices are followed.</u>	
Ventilation	Local Exhaust	<u>N/A</u>	Special <u>N/A</u>
	Mechanical	<u>N/A</u>	Other <u>N/A</u>
Protective Gloves		<u>Not required</u>	Eye Protection <u>Not required</u>
Other Protective Equipment		<u>Not required when recommended work practices are followed.</u>	

SECTION X: SPECIAL PRECAUTIONS (See also Section XII)	
Precautions to be Taken in Handling and Storing	
<u>Follow "Recommended Work Practices for A/C Pipe" published by A/C Pipe Producers Association.</u>	
Other Precautions	
<u>All tools which may release asbestos fibers in excess of the exposure limits shall be provided with local exhaust ventilation systems.</u>	

REMARKS	<u>This information is given without warranty, representation, inducement or license of any kind, except that it is accurate to the best of our knowledge or obtained from sources believed by us to be accurate, and we do not assume any legal responsibility for use or reliance upon same.</u>

A/C PIPE

SECTION XI

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SILICOSIS

A disease due to breathing air containing crystalline silica, characterized anatomically by generalized fibrotic changes and the development of miliary nodulations in both lungs.

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This is a chronic lung disease in which the lungs become scarred as a result of the biological reaction to inhaled asbestos. Damage to the lungs is irreversible and progressively disabling.

Affected individuals experience shortness of breath on exertion. Examining physicians may note a bluish color of the lips and tongue, an alteration in the nails, and hear crackles at the base of the lungs. The chest x-ray is found to have an increase in the profusion of small irregular opacities and deterioration may be noted in tests of lung function.

Although asbestosis does not necessarily lead to lung cancer, individuals with this disease are at high risk to develop cancer.

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Pleural Plaques

The pleura are the membranes lining the chest cavity. Asbestos fibers reaching this cavity may produce scarring of these membranes. This is visible in the chest x-ray as a pleural thickening. If calcium salts become deposited in these areas, then pleural plaques are produced. Pleural thickening is a common complication of pulmonary asbestosis and these x-ray signs are often used as markers of asbestos exposure.

A/C PIPE

Lung Cancer

The symptoms include a cough, or a change in the cough habit, chest pain, and occasionally blood-streaked sputum coughed up from the lungs.

The asbestos-related lung cancer occurs more frequently in the lower lobes. Initial diagnosis is by chest x-ray.

SECTION XII

PRECAUTIONS FOR HANDLING ASBESTOS-CONTAINING PIPES

(Hygienic Practices)

In case of cutting or beveling asbestos-cement pipes, all hand or power-operated tools which may produce or release asbestos fibers should be provided with local exhaust ventilation systems.

Asbestos-containing material should be handled in a wet state sufficient to prevent the emission of airborne fibers.

Workers engaged in the demolition of asbestos-containing pipes should be provided with appropriate respiratory equipment approved by the Bureau of Mines or the National Institute for Occupational Safety and Health and special clothing such as coveralls or similar whole body clothing.

Asbestos-containing waste should be collected and disposed of in sealed impermeable bags, or other closed, impermeable containers.



J-M Manufacturing Company, Inc.

1051 Sperry Road, Stockton, California 95206 • Tel.: (209) 982-1500 • Telex: 359491 • Telecopier: (209) 465-8184

December 5, 1986

Brakegate Limited
PO Box 14095
West Allis, WI 53214
Attn: Peter Trettin
(414) 383-2020

Re: Request for Quotation, 1987

Dear Peter,

Below you will find a list of our raw materials, additives, and/or operating supplies with our forecast requirements for the year 1987

Please refer to our purchase specification as attached for your reference.

Also, please submit the quotation, with your catalog or literature, For these products by 12/30/86 or sooner.

<u>DESCRIPTION</u>	<u>1987 FORECAST</u>	
	DENISON, TX	STOCKTON, CA.
<u>ASBESTOS WHITE FIBER</u>		
4T GRADE	2,510 ST	3,250 ST
5R GRADE	350 ST	480 ST
<u>ASBESTOS BLUE FIBER</u>		
WMS-6	694 ST	1,400 ST
WML-6	347 ST	482 ST

If there are any questions regarding the above items, please feel free to call me anytime.

Sincerely,

Paul Huang,
Purchasing Manager

PH/js

enclosures

JMM 00000328



J-M Manufacturing Company, Inc.

1051 Sperry Road, Stockton, California 95206 • Tel.: (209) 982-1500 • Telex: 359491 • Telecopier: (209) 465-8184

December 5, 1986

Calaveras Asbestos Ltd.

PO Box 197

Copperopolis, CA 95228

Attn: Gordon A. Coats

(209) 785-2281

Re: Request for Quotation, 1987

Dear Gordon,

Below you will find a list of our raw materials, additives, and/or operating supplies with our forecast requirements for the year 1987

Please refer to our purchase specification as attached for your reference.

Also, please submit the quotation, with your catalog or literature, For these products by 12/30/86 or sooner.

DESCRIPTION

1987 FORECAST

ASBESTOS WHITE FIBER

DENISON, TX

STOCKTON, CA.

4T GRADE

2,510 ST

3,250 ST

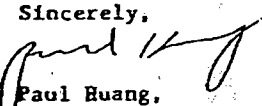
5R GRADE

350 ST

480 ST

If there are any questions regarding the above items, please feel free to call me anytime.

Sincerely,


Paul Huang,
Purchasing Manager

PH/js

enclosures

JMM 00000329



J-M Manufacturing Company, Inc.

1051 Sperry Road, Stockton, California 95206 • Tel.: (209) 982-1500 • Telex: 359491 • Telecopier: (209) 465-8184

December 5, 1986

J M Asbestos Sales Inc.
2000 Peel St.
Suite 750
Montreal, Quebec H3A 2W5
(514) 288-5917
Attn: Gerard Hughes

Re: Request for Quotation, 1987

Dear Mr. Hughes,
Below you will find a list of our raw materials, additives, and/or operating supplies with our forecast requirements for the year 1987

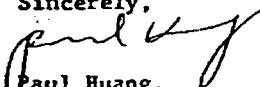
Please refer to our purchase specification as attached for your reference.

Also, please submit the quotation, with your catalog or literature, For these products by 12/30/86 or sooner.

<u>DESCRIPTION</u>	<u>1987 FORECAST</u>	
<u>ASBESTOS WHITE FIBER</u>	DENISON, TX	STOCKTON, CA.
4T GRADE	2,510 ST	3,250 ST
5R GRADE	350 ST	480 ST

If there are any questions regarding the above items, please feel free to call me anytime.

Sincerely,


Paul Huang,
Purchasing Manager

PR/js

enclosures

JMM 00000330



J-M Manufacturing Company, Inc.

1051 Sperry Road, Stockton, California 95206 • Tel.: (209) 982-1500 • Telex: 359491 • Telecopier: (209) 465-8184

December 5, 1986

Eastern Chen Trading Co. Ltd.
1117 Suite
603 Saint Catherine West
Montreal, Que. Canada H3B 1B9
Attn: T.Y. Chen
(514) 281-0141

Re: Request for Quotation, 1987

Dear Mr. Chen,
Below you will find a list of our raw materials, additives, and/or
operating supplies with our forecast requirements for the year 1987

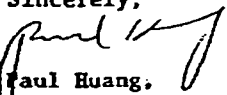
Please refer to our purchase specification as attached for your
reference.

Also, please submit the quotation, with your catalog or literature,
For these products by 12/30/86 or sooner.

<u>DESCRIPTION</u>		<u>1987 FORECAST</u>
<u>ASBESTOS WHITE FIBER</u>	DENISON, TX	STOCKTON, CA.
4T GRADE	2,510 ST	3,250 ST
5R GRADE	350 ST	480 ST

If there are any questions regarding the above items, please feel free
to call me anytime.

Sincerely,


Paul Huang,
Purchasing Manager

PH/js

enclosures

JMM 00000331



J-M Manufacturing Company, Inc.

1051 Sperry Road, Stockton, California 95206 • Tel.: (209) 982-1500 • Telex: 359491 • Telecopier: (209) 465-8184

December 16, 1986

Cassiar Mining Corp.
2000-1055 West Hastings St.
Vancouver, B.C., Canada V6E 3V3
(604) 688-2511
Attn: John W. Oughtred

Re: Request for Quotation, 1987

Dear Mr. Oughtred,
Below you will find a list of our raw materials, additives, and/or
operating supplies with our forecast requirements for the year 1987

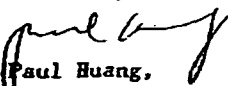
Please refer to our purchase specification as attached for your
reference.

Also, please submit the quotation, with your catalog or literature,
For these products by 12/30/86 or sooner.

<u>DESCRIPTION</u>	<u>1987 FORECAST</u>	
<u>ASBESTOS WHITE FIBER</u>	<u>DENISON, TX</u>	<u>STOCKTON, CA.</u>
4T GRADE	2,510 ST	3,250 ST.
5R GRADE	350 ST	480 ST.

If there are any questions regarding the above items, please feel free
to call me anytime.

Sincerely,


Paul Huang,
Purchasing Manager

PH/js

enclosures

JMM 00000332



J-M Manufacturing Company, Inc.

1051 Sperry Road, Stockton, California 95206 • Tel.: (209) 982-1500 • Telex: 359491 • Telecopier: (209) 465-8184

February 1, 1988

ALL DISTRIBUTORS:

Re: J-M To Cease Manufacture Of Asbestos Cement (A/C) Pipe Products
Effective: May 31, 1988

Because the use of A/C pipe products has declined drastically over the past few years, J-M will cease to manufacture these products on May 31, 1988 at Denison, Texas.

J-M has attempted to supply A/C pipe in a declining market while simultaneously producing sufficient volume per producing plant to remain economically viable. For this reason, the Stockton, California A/C facility was shut down in June of 1987 with Denison, Texas remaining as the sole A/C pipe producing facility in the J-M organization. As markets further declined, Denison production decreased from five days to three and then finally to two, at which point it is no longer economical to produce.

The decision to cease production was made only after very, very careful and thoughtful evaluation of all factors involved, including our loyal employees at Denison. It was a difficult decision, but the declining market left us no choice.

For those of you who are currently active with J-M A/C products, our personnel will closely coordinate with you to implement our withdrawal from the marketplace in as orderly a manner as possible.

A/C products have served the American public for a long, long time and we sincerely appreciate the business that we have had with you over the years.

Very truly yours,

Ernest H. Pronske
Vice President of Sales

ENP/mec

JMM 00000333

CONFIDENTIAL

J-M Manufacturing Company, Inc.

Bulletin

NEWS RELEASE

J-M A/C PIPE Co. ANNOUNCED TODAY ITS DECISION TO CEASE PRODUCTION OF ASBESTOS CEMENT PIPE AT ITS DENISON, TEXAS FACILITY IN LATE MAY, 1988. THE PLANT WILL CONTINUE TO OPERATE AT ITS CURRENT LEVEL FOR SEVERAL MONTHS TO ASSURE OUR CUSTOMERS AND OUR EMPLOYEES AN ORDERLY TERMINATION OF THE J-M A/C PIPE BUSINESS.

THE DECISION TO CEASE PRODUCTION OF A/C PIPE BY J-M IS A RESULT OF DECLINING MARKET CONDITIONS. J-M'S ASBESTOS CEMENT PIPE PRODUCTION HAS BEEN REDUCED BY OVER 75 PERCENT IN THE PAST FEW YEARS AND IS CONTINUING TO DECLINE.

THE ASBESTOS CEMENT PIPE OPERATION WAS FORMERLY OWNED BY JOHNS-MANVILLE AND BEGAN OPERATION IN 1958. DURING JOHNS-MANVILLE BANKRUPTCY PROCEEDINGS IN 1982, THE DENISON PLANT AND SEVEN OTHER PIPE MANUFACTURING FACILITIES WERE SOLD TO J-M MANUFACTURING Co., INC.

THE ASBESTOS CEMENT CLOSURE AT DENISON WILL NOT AFFECT THE PVC PIPE OPERATION CO-LOCATED AT THE DENISON PLANT. THE REDUCED OPERATION AT DENISON WILL AFFECT APPROXIMATELY ONE-HALF OF THE 180 PEOPLE NOW EMPLOYED.

JMM 00000334



J-M Manufacturing Company, Inc.

1051 Sperry Road, Stockton, California 95206 • Tel.: (209) 982-1500 • Telex: 359491 • Telecopier: (209) 465-8184

June 4, 1987

Mr. Peter Trettin
~~Stockton, Cal.~~
Post Office Box 14095
West Allis, Wisconsin 53214

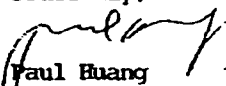
Dear Sir:

It is with mixed emotions that J-M Manufacturing announces that our Stockton, California facility will cease production of our Asbestos Cement (A/C) pipe, effective July 1, 1987. However, our A/C pipe production will be consolidated and continued at our Denson, Texas plant.

The move to consolidate is due to many economic considerations in line with the general decline of the A/C pipe market.

We would like to express our genuine appreciation to you and your firm with whom we have enjoyed an excellent business relationship. We would also like to thank you for your support during our years of A/C production and hope sincerely that your firm will continue to your support through the end of June 1987 with regards to our Stockton, California facility's needs.

Sincerely,


Paul Huang
Purchasing Manager

PH/cvs

JMM 00000335

J-M Manufacturing Co., Inc.

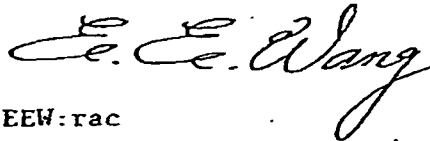
Internal Correspondence

To : All Plant Managers
From : E. E. Wang, Stockton H.Q.
Copies : C. J. Chen, Wilfred Wang
Subject : ASBESTOS THRESHOLD EXPOSURE LEVEL

Date: February 18, 1986

Asbestos is a known animal and human carcinogen. It has been listed by the U.S. Environmental Protection Agency as a hazardous air pollutant. The California Air Resources Board has recently recommended its listing as a toxic air contaminant. It should be further noted that there is not sufficient available scientific evidence to support the identification of an exposure level below which carcinogenic effects would not occur.

Since no threshold exposure level (below which no significant adverse health effects are expected to occur) can be established, plant workers exposed to the asbestos environment (regardless of the current airborne asbestos concentrations) are required to wear their suitable respirators all the time.


EEW:rac

JMM 00000336



MATERIAL SAFETY DATA SHEET

PREPARED BY
Dr. E.E. Wang
DATE
1-30-87

SECTION I

Manufacturer's Name, Address, and Phone Number

J-M A/C PIPE CORPORATION

1051 Sperry Road, Stockton, CA 95206

(209) 982-1500

Product Trade Name and Synonyms

TRANSITE Pipe

Chemical Name and Synonyms

Asbestos-Cement Pipe

Chemical Family

Mineral

Formula

N/A

SECTION II: INGREDIENTS

Substance	CAS #	WT. %
Asbestos (Chrysotile) * 8	12001-29-5	11
Asbestos (Crocidolite) * 10	1332-21-4	4
Silica (Crystalline)	14808-60-7	35
Portland Cement	None	50

SECTION III: OCCUPATIONAL EXPOSURE LIMITS

Substance	OSHA's PEL	ACGIH's TLV	Listed as Carcinogen
Asbestos (Chrysotile)	0.2 f/cc	2f/cc	Yes
Asbestos (Crocidolite)	0.2f/cc	0.2f/cc	Yes
Silica (Crystalline) (10* ^c or 30** mg/M ³) / (%SiO ₂ +2)		Same as PEL	No
Portland Cement	50 mppcf	5* or 10**mg/M ³	No
*As respirable dust; **As total dust			
*** Asbestos fibers measured are those longer than 5 micrometers.			
Note: PEL and TLV refer to 8-hr. time weighted average			

SECTION IV: PHYSICAL DATA			
Boiling Point (°F)	N/A	Specific Gravity (H ₂ O=1)	1.85
Vapor Pressure (mm Hg)	N/A	Percent, Volatile by Volume (%)	N/A
Vapor Density (Air = 1)	N/A	Evaporation Rate (=1)	N/A
Solubility in Water	N/A		
Appearance and Odor <u>Grayish-white pipe; odorless</u>			

SECTION V: FIRE AND EXPLOSION HAZARD DATA							
Flash Point (Method Used)	N/A	Flammable Limits	<table border="1"> <tr> <td>Lel</td> <td>Uel</td> </tr> <tr> <td>N/A</td> <td>N/A</td> </tr> </table>	Lel	Uel	N/A	N/A
Lel	Uel						
N/A	N/A						
Extinguishing Media <u>N/A</u>							
Special Fire Fighting Procedures <u>N/A</u>							
Unusual Fire and Explosion Hazards <u>None</u>							

SECTION VI: REACTIVITY DATA			
Stability		Conditions to Avoid <u>Power driven saws with</u>	
Stable	Unstable	<u>abrasive discs should NOT be used for dry cutting or beveling</u>	
X		<u>asbestos-cement pipe. Always avoid creating and breathing</u>	
Incompatibility (Materials to Avoid)		<u>dust</u>	
<u>None</u>			
Hazardous Decomposition Products <u>None</u>			
Hazardous Polymerization			
May Occur		Will Not Occur	
		X	
Conditions to Avoid <u>N/A</u>			

SECTION VII: HEALTH HAZARD DATA (See also Section XI)

Effects of Overexposure

Inhalation of excessive crystalline silica may cause silicosis. Overexposure to airborne asbestos fibers may cause pulmonary diseases (asbestosis, mesothelioma, pleural plaques, and lung cancer). Smoking greatly increases cancer risk from asbestos exposure. The descriptions and symptoms of the above mentioned diseases are given in Section XI.

Emergency and First Aid Procedures

Inhalation: Move person to fresh air.

Eyes: Wash with water for 15 minutes.

Skin: Clean area of contact.

Ingestion: Seek medical attention if necessary.

SECTION VIII: SPILL OR LEAK PROCEDURES

Steps to be Taken in Case Material is Released or Spilled

Pipe fragments and installation debris must be handled in a manner which avoids airborne dispersion of asbestos dust. Use wet or vacuum method for clean-up.

Waste Disposal Method

Comply with all applicable local, state, and federal regulations.

(X)

SECTION IX: SPECIAL PROTECTION INFORMATION			
Respiratory Protection <u>Not required when recommended work practices are followed.</u>			
Ventilation	Local Exhaust	<u>N/A</u>	Special <u>N/A</u>
	Mechanical	<u>N/A</u>	Other <u>N/A</u>
Protective Gloves		<u>Not required</u>	Eye Protection <u>Not required</u>
Other Protective Equipment <u>Not required when recommended work practices are followed.</u>			

SECTION X: SPECIAL PRECAUTIONS (See also Section XII)	
Precautions to be Taken in Handling and Storing	
<u>Follow "Recommended Work Practices for A/C Pipe" published by A/C Pipe Producers Association.</u>	
Other Precautions <u>All tools which may release asbestos fibers in excess of the exposure limits shall be provided with local exhaust ventilation systems.</u>	

REMARKS	<u>This information is given without warranty, representation, inducement or license of any kind, except that it is accurate to the best of our knowledge or obtained from sources believed by us to be accurate, and we do not assume any legal responsibility for use or reliance upon same.</u>

A/C PIPE

SECTION XI

HEALTH HAZARDS - DESCRIPTIONS AND SYMPTOMS

SILICOSIS

A disease due to breathing air containing crystalline silica, characterized anatomically by generalized fibrotic changes and the development of miliary nodulations in both lungs.

The symptoms include gradually increasing difficulty in breathing and non-productive cough, shortness of breath, decreased chest expansion, lessened capacity for work, absence of fever, and increased susceptibility to tuberculosis.

ASBESTOSIS

This is a chronic lung disease in which the lungs become scarred as a result of the biological reaction to inhaled asbestos. Damage to the lungs is irreversible and progressively disabling.

Affected individuals experience shortness of breath on exertion. Examining physicians may note a bluish color of the lips and tongue, an alteration in the nails, and hear crackles at the base of the lungs. The chest x-ray is found to have an increase in the profusion of small irregular opacities and deterioration may be noted in tests of lung function.

Although asbestosis does not necessarily lead to lung cancer, individuals with this disease are at high risk to develop cancer.

Mesothelioma

This is a malignant tumor of the thin membranes lining the chest and abdominal cavities. It is an extremely rare cancer in the general population and is almost invariably associated with asbestos exposure. It is a rapidly progressive disease leading to death within a year or two of appearance.

The first symptom may be shortness of breath or pain in the wall of the chest aggravated by deep breathing or abdominal pain varying from vague discomfort to severe spasms.

Pleural Plaques

The pleura are the membranes lining the chest cavity. Asbestos fibers reaching this cavity may produce scarring of these membranes. This is visible in the chest x-ray as a pleural thickening. If calcium salts become deposited in these areas, then pleural plaques are produced. Pleural thickening is a common complication of pulmonary asbestosis and these x-ray signs are often used as markers of asbestos exposure.

⊗

A/C PIPE

Lung Cancer

The symptoms include a cough, or a change in the cough habit, chest pain, and occasionally blood-streaked sputum coughed up from the lungs.

The asbestos-related lung cancer occurs more frequently in the lower lobes. Initial diagnosis is by chest x-ray.

SECTION XII

PRECAUTIONS FOR HANDLING ASBESTOS-CONTAINING PIPES

(Hygienic Practices)

In case of cutting or beveling asbestos-cement pipes, all hand or power-operated tools which may produce or release asbestos fibers should be provided with local exhaust ventilation systems.

Asbestos-containing material should be handled in a wet state sufficient to prevent the emission of airborne fibers.

Workers engaged in the demolition of asbestos-containing pipes should be provided with appropriate respiratory equipment approved by the Bureau of Mines or the National Institute for Occupational Safety and Health and special clothing such as coveralls or similar whole body clothing.

Asbestos-containing waste should be collected and disposed of in sealed impermeable bags, or other closed, impermeable containers.

J-M Manufacturing Company, Inc.

Internal Correspondence

To: All Plant Managers

Date: January 5, 1984

From: E. E. Wang- Stockton HQ

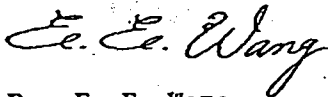
Copies: W.G. Burnett, R.K. Chi

Subject: CORPORATE SAFETY PROGRAM

Enclosed is the Corporate Safety Program for J-M Manufacturing Company, Inc. and J-M A/C Pipe Corporation. Please peruse it and then let your plant employees read through it.

The occupational safety and health of J-M employees is our prime concern, and should be treated as an integral part of our jobs. It is the policy of this Company to provide safe and healthful working conditions/operating practices that will ensure a safe work environment for employees.

In order for this safety program to become more effective, every J-M employee should take a serious interest in safety. It must be pointed out that safety is the responsibility of every executive, every manager, every supervisor, and every worker within each one's scope of action. By working together, we can maintain a safe working environment for all J-M employees.



Dr. E. E. Wang
Manager, Corporate Environmental Control

JAN. 05 1984

JMM 00000343

J-M MANUFACTURING COMPANY, INC.

J-M A/C PIPE CORPORATION

C O R P O R A T E S A F E T Y P R O G R A M

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STATEMENT OF CORPORATE SAFETY POLICY

As management, we at J-M Manufacturing Company and J-M A/C Pipe Corporation recognize our responsibilities to establish a policy in the interest of safety. The safety and health of employees at J-M is of primary importance. It is the policy of this Company to provide safe and healthful working conditions and operating practices that will ensure a safe work environment for employees.

All levels of management have a primary responsibility for the safety of all employees. The employee in turn is expected to adhere to the regulations and policy outlined by the Company. Management and supervisors at all levels will assure that a safe place to work is provided for all employees. Employees will be expected to assist in uncovering unsafe working conditions or unsafe equipment by reporting such conditions or equipment to their supervisors.

In order for this safety program to become effective, managers of each department must personally take a serious interest in safety. It must be pointed out that safety is the responsibility of every executive, every manager, every supervisor, and every worker within each one's scope of action.

These responsibilities can be met only by working continuously to promote safe work practices among all employees and to maintain property and equipment in safe operating conditions. By working together, we can maintain a safe working environment for all employees.

Signed:

E. Edward Wang
MANAGER, ENVIRONMENTAL CONTROL

W. M. Burnett
VICE PRESIDENT, OPERATIONS DIVISION

Richard K. Lee
PRESIDENT OF THE COMPANY

ACKNOWLEDGEMENT OF RECEIPT OF COMPANY'S SAFETY RULES

I have received and read a copy of Company's Safety Rules, and agree to follow all rules as a condition of my employment. I will ask my supervisor if I do not understand any of the rules.

If I find any unsafe conditions, I will report them to my supervisor.

SIGNATURE OF EMPLOYEE

DATE

Copy to be returned to personnel department.

OBJECTIVE OF SAFETY PROGRAM

It is the objective of J-M Manufacturing Company, Inc. and J-M A/C Pipe Corporation to implement an effective safety program in order to minimize injury and suffering to employees, promote maximum efficiency of operations throughout the Company.

The broad objective can be successfully achieved by initiation and continued observance of the following:

1. Planning all work to minimize personal injury, property damage, and loss of productive time.
2. Maintenance of a system for prompt detection and correction of faulty procedures, unsafe practices and conditions.
3. Making available and enforcing the use of personal protective equipment and all necessary mechanical guards.
4. Establishing an effective system of tool and equipment inspection and maintenance.
5. Institution of an educational program to maintain interest and cooperation of all levels of employment through (a) investigation of all accidents to determine cause and initiation of prompt corrective action, (b) regular effective safety meetings, (c) posting and enforcing minimum safety requirements for all job operations, (d) use of bulletins, posters, and other appropriate visual aids.

BASIC SAFETY PROGRAM

I. Purpose:

The purpose of this program is to effectively guide the company employees in the pursuit of safety. Efforts directed to reduce accidents will succeed only to the degree that all management personnel apply the principle that safety is an operating responsibility and demands the same executive direction and control given to increasing efficiency of production.

II. Supervisor Activities -- BASIC:

Specific safety functions are assigned to supervisors. They are designed to involve the supervisor in all areas of the program because it is only through their active participation and support that the program can be successful. These activities can be related to the acronym B A S I C, indicating they are fundamental, but essential to the program. They are:

B-Basic Training
A-Accident Investigation
S-Safety Meetings
I-Inspections
C-Counseling Individual Employees

. Basic Training:

Supervisors are required to participate in an indoctrination program for new employees. The purpose is to make certain that the employee receives the necessary information to begin work. Training progress of new employees must be closely monitored by supervisors to insure the employee is performing the job as instructed and doing it safely. This orientation checklist will become a permanent part of the personnel file.

. Accident Investigation:

Supervisors will conduct investigations of all injuries to their employees. The Accident Investigation Report will be completed to include corrective action taken, and forwarded to the plant manager for review within two days. The safety officer will maintain accident report files.

The responsibility to conduct an accident investigation is one which cannot be taken lightly. The reason is obvious! It is the only way to systematically establish all the facts concerning how and why an accident occurred, and then take action to prevent a recurrence.

This responsibility lies with the immediate supervisor of the injured employee. His job is to gather all available information from the injured employee, witnesses, the scene, etc. then apply his experience in evaluating that information and report his idea of what happened, how it happened, why it happened and what has been done to prevent a recurrence.

Following are some basics on how to get the facts:

1. Remind the employee of the investigation's purpose. If the employee is afraid of ridicule, reprimand, etc., he probably will not help in identifying the facts. He must understand the purpose is NOT to find fault.
2. Let the employee tell his/her story at the scene. His story should include what he was doing, how he was doing it and what happened. Let him complete his story without interruption.
3. Ask questions. The supervisor must be sure he clears up any misunderstandings.
4. Check understanding. The supervisor should describe the accident as he understands it, checking key points.
5. Discuss how to prevent recurrence. The supervisor must cover specifically what needs to be done to prevent recurrence. Here the employee's opinion could be valuable. This step must be covered to conclude a useful accident investigation.

Safety Meetings:

Supervisors are required to hold safety meetings regularly for their employees. Prepared safety talks will be distributed periodically. Supervisors are encouraged to present information applicable to their employees' jobs, hazards, injury experience, etc.

Inspections:

Each supervisor is expected to conduct a planned inspection on his areas of responsibility at least once a week. These inspections are to be conducted for each shift. A summary of the inspection results will be forwarded to the plant manager.

It is important that the supervisors' weekly inspection be planned, not incidental. By incidental, it means just keeping our eyes open for unsafe acts or conditions. This type of inspection should be taking place continuously. The planned inspection is deliberate and thorough. When the supervisor sets out on the inspection, he has in mind out-of-the-way areas to check, specific tools, machines, or processes; specific conditions to look for, etc. Nothing is left to chance.

Counseling of Individual Employees:

From time to time, it is necessary to counsel employees on an individual basis for various reasons (unsafe acts, injury, adherence to safety rules, etc.) The topic of discussion should always have specific application for the individual counseled. This feature of the program helps to reinforce with employees management's commitment to safety.

POSITION RESPONSIBILITIES

It is the Company's policy that all employees accept personal responsibility for the successful operation of the safety program as outlined below.

I. Plant Manager:

As part of the cooperative effort to reduce needless waste and personal injury, plant managers will manage the development of a practical and effective safety program.

It shall be their responsibility to maintain an interest and participate in accident control through (1) review and action of accident control records, (2) review of recommendations submitted by the safety inspectors, and appropriate corrective action taken by the managers, and (3) issue letters and bulletins concerning accident prevention problems as required.

II. Personnel Or Employee Relations Manager:

It is the responsibility of the personnel manager to assure that planned safety is observed by issuing instructions to all supervisors, holding them responsible for preventing all accidents, and requiring them to comply with all provisions of the safety program by (1) maintenance of the accident record and reporting system, (2) maintenance of interested participation in safety through regular attendance at safety meetings, and (3) initiation of corrective action in response to safety recommendations.

III. Safety Officer/Supervisor:

It is the job of the safety officer/supervisor to effectively administer the safety program to the working employee by (1) review and supervision of the use of the accident report and investigation form, (2) maintenance of the Accident Record summary, (3) preparing the necessary insurance and regulatory jurisdictional reports for transmittal to the manager, (4) filing and keeping custody of all job accident records, and (5) controlling and supervising dispensing of safety equipments.

IV. Foreman:

All foremen are an integral part of safety work and the amount of effort they expend toward accident prevention in their daily assignments helps determine whether or not a good safety record is established. The responsibilities of the foreman include (1) instructing personnel under his supervision in safe work practices and work methods at the time they are given work assignments, (2) determining that all personnel have the proper protective equipment and suitable tools for the job before starting work and that it is used, (3) constantly checking to see that no unsafe practices or conditions are allowed to exist anywhere under his jurisdiction, (4) setting a good example for his men, (5) acquainting his men with the safety requirements and insuring that they are enforced, (6) making a complete

investigation of accidents involving his men to determine facts necessary to take corrective action, (7) promptly completing the Accident Report and Investigation Form and forwarding it to the safety officer, and (8) holding weekly safety meetings with his men to discuss observed unsafe practices and conditions, the accident experience of his men and the correction of the accident causes, and safety suggestions with his men.

CONTROL OF SAFE WORKING CONDITIONS

Positive controls should be accomplished to assure that all areas and equipment are properly maintained and free from easily recognizable hazards.

Supervisory personnel should be required to inspect work areas and equipment on a scheduled basis and to correct all deficiencies noted. Reports of the inspection results should be made and sent to the safety officer.

Maximum use should be made of technical specialists provided by the casualty and fire insurance carriers, the State Labor and Health Department and related agencies. Distribution of recommendations developed by these agencies will be directed to the supervisor in charge with a formal follow-up procedure being established.

TRAINING AND SUPERVISION OF EMPLOYEES

Since many industrial accidents are caused by unsafe acts and they are related directly to the lack of adequate job training, supervisory personnel will be required to thoroughly train and supervise each new or transferred employee in proper job performance and safety requirements. Rules and procedures should be established and posted for safe performance at all job sites.

Immediate supervisors should evaluate driving techniques in the proper equipment along with vehicle maintenance procedures for all personnel who drive or operate company vehicles or equipment. Deficiency should be reported and corrected immediately.

Driver records should be maintained for all drivers of motor vehicles in order that special training or assistance may be provided promptly where needed. Short safety meetings should be held on a regular scheduled basis, at which time various pertinent safety subjects will be discussed.

SAFETY INSPECTIONS

Safety inspection is another method of detecting potential accident causes. Safety inspection includes observing work operations, material and equipment usage, and the working environment in general. These inspections are a continuous part of all supervisory duties; they are a daily requirement of supervisory responsibilities for planning, observing and instructing his men. Meaningful safety inspections are the result of the supervisor's ability to recognize unsafe acts or conditions. This ability can be developed by applying common sense safety principals to the knowledge of work operations, and by knowing why past accidents happened. It can easily be seen why accident reports and investigations are essential to the safety program. The mistakes of the past are the knowledge of the future.

SAFETY MEETINGS

I. Monthly Meetings:

A general safety meeting attended by all supervisors, foremen and their men shall be conducted by the safety officer each month. A specific topic should be selected and prepared for presentation prior to the meeting. If desired, foremen or supervisors may be assigned presentation duties. The following should be made a part of all monthly meetings:

- A. Discussions of all accidents and near misses occurring since the prior meetings should be held and corrective recommendations formulated.
- B. Progress toward recommendations adopted at prior months meetings shall be reviewed.
- C. Minutes of all meetings should be recorded to aid in monitoring progress and for Division superintendents review.

II. Weekly Supervisors Meetings:

A short safety meeting should be conducted weekly by each supervisor. All such meetings should include the following:

- A. Each meeting should concern a specific topic relative to work either current or to be undertaken in the near future.
- B. Employees should be given the opportunity to contribute to the meeting with either suggestions or observations.
- C. A report of the meeting should be signed by the supervisor and forwarded to the safety officer.

III. Special Meetings:

Unscheduled meetings shall be called as new operations, special hazards, or other reasons dictate.

BASICS OF ACCIDENT PREVENTION

An accident is an unforeseen or unplanned event that may or may not result in personal injury or property damage. Accidents are caused by mistakes, and these mistakes are either unsafe acts or unsafe conditions, or a combination of the two. Although, not every accident results in damage or injury, each is a warning that a danger exists. Any accident may occur several times before an injury results, but the supervisor must not let a condition go unchecked. He must first find out why it happened, even though it may appear minor at the moment. His supervisor's responsibility is to remedy hazardous acts or conditions before someone gets hurt.

Basic accident causes include: failure to understand instruction, failure to give adequate instructions, disregard of safety rules, and lack of concentration on the job. Knowing these basic causes, the supervisor should then determine the unsafe conditions and unsafe acts that caused the accident and then plan to prevent a recurrence as soon as possible. The supervisor should determine the problem area and correct it before it happens.

ACCIDENT INVESTIGATION

Investigation of accidents is an essential part of any safety program. The investigation of accidents is not made for the purpose of placing blame on someone, but to ascertain the facts in order to prevent other accidents from the same cause.

Each accident should be investigated by the supervisor in charge. He should look for the following:

- (a) The true cause of the accident
- (b) The action taken to prevent recurrence
- (c) The extent of the injury or damage
- (d) Names of witnesses, if applicable, or available

The "Supervisor's Accident Investigation Report Form" should be completed for all accidents. Knowing the cause of the accident is valuable only if this knowledge leads to successful elimination. Corrective action is the most vital part of accident investigation. If such is not taken, the investigation is both pointless and incomplete.

The right remedy, and most economical one being applied, is essential to the success of an accident investigation. A repetition of a similar accident may indicate that the previous remedy was ineffective or that the cause found was not the fundamental one.

Once the problem is determined, corrective action should be immediate; therefore, the signing of the investigator's name places a sense of responsibility upon the investigator to give both serious and full attention to the completion of the report. The safety officer will review the Investigation Report for accuracy and completeness. If he is not satisfied, he will direct that further effort must be made.

Determining causes of accidents often indicates means which will prevent reoccurrences. When an accident occurs, the following steps are to be taken:

1. All employees must be instructed to report all injury accidents to their foreman.
2. The foreman shall properly complete the supervisor's Investigation Report Form and submit it to his supervisor.
3. A copy of the Supervisor's Investigation Report Form should be forwarded to the Safety Officer for his information and use in monitoring the safety program.

Accident reports should be viewed as an informational tool rather than a mere administrative duty. The purpose of an accident report is to assist the supervisor in determining problem areas in his work operation. The problem may be a particular piece of equipment, or an unsafe procedure, or an individual in need of instruction. Whatever the problem, the accident report, along with a thorough accident investigation, will aid the supervisor in making his area of responsibility a safe one.

EMPLOYEE HEALTH AND EMERGENCY TREATMENT OF INJURIES

Employee health, both on and off the job, reflects in production and accident losses. Proper treatment of both minor and serious injuries is a basic prerequisite to an effective employee health program and has a major effect on safe working attitudes of the employees.

Qualified, properly trained, first aid personnel should be available for all company personnel. First aid supplies and equipment should be available and should be properly maintained.

LEGAL SAFETY REQUIREMENTS

The safety of our industry is now either regulated by the Occupational Safety and Health Administration (OSHA) as administered by the U.S. Department of Labor, or by a similar organization in certain states having approved State Plans.

Federal OSHA regulations that apply to our operations are found in Title 29, Chapter XVII, parts 1910 of the Code of Federal Regulations. Part 1910 is known as the General Occupational Safety and Health Standards and applies to all industries.

it is the intent of J-M Manufacturing Company, Inc. and J-M A/C Pipe Corporation to comply fully with both the spirit of the law and all applicable regulations.

EMPLOYEE CONSULTATION AND WARNING NOTICE

Employees who violate the safety regulations are subject to disciplinary action as follows:

1. First infraction -- oral warning
2. Second infraction -- written warning advising next infraction will be suspension
3. Third infraction -- suspension
4. Fourth infraction -- discharge

The third or fourth step action will be taken for blatant or wanton violations of the safety rules, which result in a serious injury.

GENERAL SAFETY RULES

You are working for an organization which is sincere in its desire to conduct all of its operations in the safest manner possible. Compliance with the general safety rules listed below will assist us in achieving this objective. These rules are the minimum guides for working safely. Your continued awareness and cooperation in safety is a vital part of your job. It is your duty to apply these and all accepted standards of safety.

1. Whenever you are involved in any accident that results in personal injury or damage to property - no matter how small - accidents must be reported to your supervisor. Get first aid promptly.
2. Report immediately, any condition or practice you think might cause injury or damage to equipment.
3. Do not operate any equipment which, in your opinion, is not in a safe condition.
4. All prescribed safety and personal protective equipment should be used when required, and maintained in a good working condition.
5. Obey all company rules, governmental regulations, signs, markings, and instructions. Be particularly familiar with those that apply directly to you. If you do not understand - ASK!
6. Leg muscles are stronger than back muscles. Lift with your legs, not your back. Bend the knees and keep the back straight.

Plan before you attempt to move a load. Consider weight, size, shape, path of travel, and set down location. Get help if necessary.

Protect your hands and fingers from rough edges, sharp corners, and metal straps. Keep hands and fingers out of pinch points between the load and other objects.
7. Material and equipment in the work environment present enough exposure without horseplay. Absolutely no horseplay will be tolerated.
8. Every tool is designed for a specific use. Do not misuse. Inspect daily for defects.

Keep tools in proper working condition. Maintain clean, sharp, oiled, dressed and adjusted.

Never hit hardened steel with hardened steel, such as hitting a hatchet with a hammer.

Tools having burrs, cracks, mushroomed heads, broken, loose, or splintered handles shall not be used.

Do not place or leave tools on overhead work to avoid the possibility of them falling and striking someone below.

Never leave tools lying about so they create a tripping hazard.

Never carry an edged or pointed tool in your pockets or belt unless the edge or point is fully protected.

Wrenches should never be used as hammers. If the jaws are worn or sprung they should be repaired or replaced.

Make certain you know how to turn off any power tool before you turn it on.

Use proper eye protection when using tools that can create flying chips or particles.

Inspect all tools for worn or loose parts before connecting it to the power supply.

Make sure all guards are in place and are secure.

Check your work area for other people before starting the tool. Warn persons nearby.

Be prepared for jamming of rotating tools. Have footing and balance and watch out for nearby obstructions. Check yourself for loose clothing.

9. Keep stored material, scrap, and other tripping hazards out of roads and walkways, off of stairs, and away from emergency equipment.

Cords, cables, and hoses crossing roads or walkways are to be covered to prevent tripping or damage, or are to be supported overhead.

10. The use of drugs and/or intoxicating beverages are prohibited.

11. All concentrations of combustible material must be kept to a minimum through proper housekeeping practices including trash removal and oil and grease accumulation clean up.

Flammable liquids (flash point below 100°F) -- All drums dispensing flammable liquids should be grounded, bonding straps should be used when dispensing flammable liquids from drums to safety containers, all flammable liquids should be transported in approved safety containers.

Combustible liquids (flash point above 100°F) -- All combustible liquids should be transported in closed metal containers.

Extinguishers utilizing the proper type agent for the type combustible or flammable present must be made available and utilized. Clear, unobstructed access to all fire extinguishers must be maintained.

Care must be exercised to eliminate all possible sources of ignition from potentially hazardous areas -- No smoking regulations will be established, areas posted, and observation enforced; flashlights approved for use in hazardous locations will be provided; vapor tight fixtures must be provided in areas where combustible vapors may occur.

SPECIFIC SAFETY REGULATIONS

In addition to the foregoing General Safety Regulations, the following regulations are to be observed by all personnel engaged in the work described under various classifications.

ASBESTOS

I. Introduction

This program provides guidelines for protecting J-M A/C Pipe Corporation employees' health from exposure to asbestos and complying with the OSHA asbestos standard, 29 CFR 1910.1001 effective July 1, 1976. (See also Section IX).

II. Permissible Exposure Level (PEL)

No employee may be exposed to asbestos at concentrations in excess of:

- A. 2 fibers/cubic centimeter (f/cc) of air averaged over an 8-hour time period.
- B. 10f/cc ceiling concentration averaged over a time period not exceeding 15 minutes.
- C. It is J-M's policy to reduce fiber levels to the lowest feasible concentration.

III. Methods of Compliance

- A. Employee exposure to asbestos at or below the PEL must be controlled as follows:
 1. Feasible engineering controls such as isolation, enclosure, local exhaust ventilation, and dust collection.
 2. Work practices including good housekeeping, vacuum cleaning of deposited dusts, wet cleaning, taping holes in fiber bags, etc. to prevent the emission of airborne fibers. A clean up situation should involve wet methods.
 3. Administrative procedures, principally, rotating employees to less dusty jobs.
 4. Use of respirators only when engineering or administrative procedures are not feasible. However, respirators will be provided to those employees who request to use them.

IV. Employee Monitoring

- A. Each A/C pipe manufacturing location must administer an asbestos exposure monitoring program which, as a minimum, will meet the following requirements:
 1. One person, usually the environmental control engineer or the safety officer, is given the responsibility of conducting the tests. This person must receive the following prior to performing the tests:

- a. Training in the basic concepts of industrial hygiene and in the use of air sampling equipment.
 - b. Training in fiber counting as presented by the NIOSH training course 582 "Sampling and Evaluating Airborne Asbestos Dust".
2. Each work position where exposure to asbestos is possible must be monitored at least once every 6 months.
 - a. Personal samples on all workers at all job positions should be taken.
 - b. Environmental monitoring should be done to determine fiber levels in general areas of the plant. This type of sampling can also provide an indication of background fiber levels.
 - c. Initial monitoring should be done when a new operation is installed.
 - d. Follow up sampling should be done when any changes, minor or major, are made to equipment or when the regular sampling program discloses fiber levels which are higher than expected.
3. Employee exposures must be evaluated whenever there is reason to believe that an increase in asbestos exposure may occur as a result of production, process or control changes, or other reasons such as throughout any fiber clean-up procedure.
4. Engineering samples taken in specific areas near machinery can help determine if engineering controls are effective, or are required.
5. Samples should be analyzed within 10 working days of the exposure monitoring.
6. If any employee's exposure is determined to exceed 0.5f/cc then follow-up samples should be taken on that employee within 14 days of the initial determination.
- B. All plant monitoring results will be forwarded to the individual plant concerned, with a copy to the Corporate Environmental Control Department, within 5 working days of fiber counting completion.
- C. Employees or their designated representatives must be provided a reasonable opportunity to observe the monitoring and measuring.
- D. Corporate Environmental Control Department will periodically audit the in-plant monitoring program with on-site sampling surveys and review of plant records and procedures.

- E. Employees must be notified in writing within 5 days of finding the measurements in excess of the PEL, and of the steps being taken to reduce the exposure to within the PEL. Notifying all employees of their exposure within 14 days of the finding should be made as a matter of routine, even if they are within the OSHA limits.

V. Employee Asbestos Exposure Notification

- A. Purpose: The Fiber Exposure Notification (FEN) form is to be used to notify employees of the results of their monitored exposure to airborne concentrations of asbestos fibers.

B. Responsibility:

1. Plant manager's responsibilities include:

- a. Proper implementation of this procedure as outlined.
- b. Assigning competent individual(s) the responsibility for FEN form completion and distribution.
- c. Reviewing/recommending/implementing action(s) to reduce or maintain airborne asbestos fiber concentration to exposure levels deemed acceptable.
- d. Meeting with the monitored employee (or assigning a responsible representative to meet with the monitored employee) to discuss with the employee the information presented on the FEN form.
- e. Ensuring complete compliance with this notification procedure and to hold those with assigned responsibilities accountable for carrying them out properly.
- f. Ensuring that recommended control actions are taken by the date stated.

2. Plant safety officer's responsibilities include:

- a. Proper completion of the FEN form.
- b. Proper distribution, preservation, and maintenance of form copies.
- c. Aiding plant management with the proper education of plant personnel relative to the purpose and meaning of monitoring programs, and provide answers to questions these employees may have.
- d. Reviewing monitoring results and recommending control methods, based on the results, as required.

3. Employee's responsibilities include:

- a. Maintaining good housekeeping within their work areas.
- b. Practicing good hygiene on a daily basis.
- c. Reporting any environmental problems to supervisors immediately.
- d. Complying with health and safety rules and procedures.

VI. Protective Equipment

A. Respirators

- 1. Respirator Use - Respirators may not be used to limit employee exposure to the 2f/cc level, except:
 - a. During the installation of engineering controls.
 - b. When engineering controls are not technically feasible. This could include maintenance of baghouses or unloading rail cars of asbestos.
 - c. In emergencies such as an equipment failure, a break in the dry fiber conveying system, bag ruptures and cleaning.
- 2. Employees required to wear a respirator
 - a. No employee should be assigned to a task requiring a respirator if based on his/her most recent examination, an examining physician determines that:
 - the employee will be unable to function normally wearing a respirator, or
 - the safety or health of the employee or other employees will be impaired by his use of a respirator.
 - b. If an employee would be impaired:
 - that employee should be rotated to another job, or
 - given the opportunity to transfer to a different position whose duties he is able to perform, with the same employer, in the same geographical area and with the same seniority, status, and rate of pay he had just prior to such transfer if that position is available.
- 3. Choice of respirator
 - a. Use NIOSH approved respirators.

- b. Single use (disposable) dust respirators may be used in areas shown to be within the 2f/cc level.
- c. For those areas or those times when fiber levels exceed 2 f/cc, the following table should be consulted to choose the appropriate respirator:

<u>Fiber Level</u>	<u>Acceptable Respirator</u>
0-2 f/cc	Disposable respirator or no respirator
2-20 f/cc	Quarter-mask dust Half-mask dust Self-contained breathing apparatus
20-200 f/cc	Powered air purifying respirator
more than 200 f/cc	Continuous flow supplied air

B. Special Clothing

1. The company requires the use of special clothing such as disposable or cloth coveralls or similar whole body clothing, head covering, gloves, and foot covering for any employee exposed to airborne concentrations greater than 10 f/cc.
2. Laundering of asbestos contaminated clothing may be done either at the location or by contract. The contractor must be informed in writing in the servicing contract of the requirements of the OSHA Asbestos Regulation 29 CFR 1910.1000(a). The clothing must be transported in sealed impermeable bags or other closed, impermeable containers and labeled.
3. Change rooms and lockers - Each employee exposed in excess of the PEL must be furnished two separate lockers or containers, separated or isolated so as to prevent the contamination of the employee's street clothes from his work clothes.

VII. Waste Disposal

Asbestos waste, scrap, debris, bags, containers, equipment, and asbestos contaminated clothing consigned for disposal should be disposed of in sealed impermeable bags, or other closed impermeable containers. (Also refer to Federal, State and Local hazardous waste disposal requirements.)

VIII. Caution Signs and Labels

- A. Caution signs should be displayed at each regulated area (fiber level greater than 2f/cc). Post signs at such a distance from the regulated area so that an employee may read the signs and take necessary protective steps before entering the area marked by the signs. Post the signs at all approaches to regulated areas.

- B. Caution labels should be affixed to all raw materials, mixtures, scrap, waste, contaminated clothing, laundry bags, and other products containing asbestos fibers, or to their containers. Caution labels should be printed with letters of sufficient size and contrast to be readily visible and legible. The label may state:

CAUTION
Cancer-Suspect Agent.
Contains Asbestos Fibers
Avoid Creating Dust

IX. Remarks

- A. The Reagan Administration issued its first Emergency Temporary Standard (ETS) on November 4, 1983. OSHA has ordered that asbestos exposure be lowered to 0.5 f/cc from the current standard of 2 f/cc. This ETS will remain in effect for six months while OSHA prepares a new permanent standard.
- B. If the safety is regulated by the more stringent State or Local organizations in certain states having approved state plans, it is the intent of this Company to comply fully with all applicable State/Local regulations.
- C. As far as the medical examinations are concerned, all applicable Federal, State, or Local regulations should be followed.

NOISE ABATEMENT PROGRAM

I. Introduction:

Noise is defined as, at least, an unwanted and, at most, a destructive sound. Noise can affect not only hearing but also other bodily functions. Noise acts upon the body very much as other stresses do. Routine exposure to intensified industrial noise may lead to chronic physiological disturbances. The wider effects of noise are considered highly controversial, and the present American standards are based only on the effects of noise on hearing.

II. Objectives:

To control or reduce exposure to excessive noise in the workplace and comply with the OSHA Occupational Noise Exposure Standard, 29 CFR 1910.95 (a) through (b). (See also Sec. VI)

III. Noise Exposure Limitations:

A. Continuous Noise:

Employee must not be exposed to the noise in excess of the sound levels shown below:

<u>Permissible Noise Exposure</u>	
<u>Duration per day (hr.)</u>	<u>Sound Level (dBA)</u>
8	90
6	92
4	95
3	97
2	100
1½	102
1	105
½	110
¼ or less	115

Duration in hours = $\frac{8}{2^{(L-90)/5}}$; where

L = sound level (dBA)

If the variations in noise level involve peaks at intervals of 1 second or less, it is considered as continuous noise.

B. Impulse/Impact Noise:

Exposures to impulsive or impact noise must not exceed 140 dB peak sound pressure level.

IV. Engineering/Administrative Controls:

A. Requirement:

When employees are subjected to sound exceeding the regulated level, feasible engineering or administrative controls must be used to reduce the noise.

B. Documentation:

It is important to fully document all administrative and engineering efforts to reduce noise levels, including costs. If such efforts fail to reduce noise to the regulated levels, the documentation can be used in defense of OSHA citations on the grounds of infeasibility.

V. Hearing Protection:

If engineering or administrative efforts fail to reduce employee noise exposures to less than the permissible exposures, the employees must be provided hearing protectors and their use be enforced.

VI. Remarks:

If the occupational noise exposure standard is regulated by the more stringent State or Local organizations in certain states having approved state plans, it is the intent of this Company to comply fully with all applicable State/Local regulations.

HEARING CONSERVATION PROGRAM

I. Introduction:

This program must be administered whenever an employee's noise exposure equals or exceeds an 8-hour time weighted average (TWA) sound level of 85 dB measured on the A scale of a standard sound level meter.

II. Objectives:

To protect employees hearing and comply with the OSHA Hearing Conservation Standard, 29 CFR 1910.95 (c) through (p). (see also Sec. V)

III. Exposure Monitoring:

- A. When information indicates that any employee's exposure may equal or exceed the Action Level (i.e., an 8-hour TWA of 85dBA), a monitoring program must be developed and implemented.
- B. Representative personal sampling must be used when there is any question that the exposure might equal or exceed the action level, and when the noise levels vary greatly or the position being monitored is highly mobile.
- C. All continuous, intermittent, and impulsive sound levels from 80 dB to 130 dB must be integrated into the noise measurements. Audio-dosimeters used for monitoring must be designed and set to measure from 80 dB.
- D. Instruments used to measure employee noise exposure must be calibrated prior to and following exposure measurements.
- E. Monitoring must be repeated whenever a change in production, process, equipment, or controls increases noise exposure to the extent that (1) additional employees may be exposed at or above the action level, or (2) the attenuation provided by hearing protection being used by employees may be rendered inadequate.
- F. Each employee exposed at or above an 8-hour TWA of 85 dB must be notified of the results of the monitoring.
- G. Employees or their representatives must be provided with the opportunity to observe exposure monitoring being conducted.

IV. Hearing Protectors:

A. Requirements for protectors:

1. Hearing protectors must be made available to all employees exposed to an 8-hour TWA of 85 dBA or greater.

2. Hearing protectors must be provided and replaced as necessary at no cost to the employee, except that reasonable local policies may be established requiring payment for replacement protectors resulting from the irresponsible behavior of employees.
3. The wearing of hearing protectors must be enforced when the employee is exposed to an 8-hour TWA of 90 dBA or greater.
4. Where the use of hearing protectors is mandatory, every effort must be made, including disciplinary procedures as necessary, to insure that the employee wear the protectors.

B. Selection:

Proper selection of hearing protection must provide for adequate attenuation, minimal discomfort and prevention of ear infection. Environmental work conditions such as dust, grease, temperature, humidity, etc. may dictate the choice of a protector. If the protector is uncomfortable, it is not likely to be worn properly. For these reasons, a limited variety of types of hearing protectors may be required to ensure that adequate protection is provided.

C. Fitting Hearing Protectors:

Each employee provided hearing protectors must be individually fitted with a hearing protector. If a change in protector type is made, refitting must be conducted.

V. Remarks

If the hearing conservation program is regulated by the more stringent State or Local organizations in certain states having approved state plans, it is the intent of this Company to comply fully with all applicable State/Local regulations.

J-M Manufacturing Company, Inc.

Internal Correspondence

To: All Plant Managers

Date: January 9, 1984

From: W. G. Burnett

WGB

Copies: R. Chi, E. Wang, Operations Staff

Subject: CORPORATE SAFETY PROGRAM/HOUSEKEEPING

By now you have received the new Corporate Safety Program. Please read it very carefully. I would like to stress the importance of safety and to encourage you to strive for a zero accident rate as your goal. Anything less than this goal would not be consistent with this company's attitude toward safety. Remember the success of a safety program depends on you.

I think all of you would agree that housekeeping and safety go hand in hand. A clean, orderly work environment at all times should be your goal. Everyone has the inevitable production problem that leave the shop a mess, but it remains a priority item to bring the shop back to established housekeeping standards as soon as possible.

I would appreciate you reviewing these policies with your staff and ultimately with everyone in the organization. There should be no doubt in anyone's mind of J.M.'s policy on safety and housekeeping.

WGB/dm

JAN. 10 1984

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