Calidria ASBESTOS

UNION CARBIDE CORPORATION • METALS DIVISION • P. O. BOX 579 • NIAGARA FALLS, N.Y. 14302 • TEL: 716-278-3376

April 13, 1976

Mr. L. P. Moore
President
Poly-Fibre, Inc.
Central Jersey Industrial Park
P. O. Box 187
Bound Brook, NJ 08805

Dear Mr. Moore:

This is in response to your request for information on dust control equipment that has been used to meet OSHA standards.

The most widely used control method is the negative pressure hood. Details on good design practice are shown in Appendix C, attached.

For small usage of asbestos, it may be more appropriate to use a vacuum transfer system directly from the bag. A commercial system offered by the Vac-U-Max Company and a suggested procedure developed by Dow Chemical to handle Saran microspheres are shown in the attachments.

We also have one RG-244 application requiring about 10 bags per day that involves a low-volatility solvent. The user has developed a novel system whereby a measured portion of the solvent is added to each bag through a cut in the side and the mixture is allowed to sit overnight. The wetted material is dustless when added to the mix tank and disperses very easily.

In addition to dust control at the source, there are several light, simple respirators that have been certified by NIOSH for use with asbestos. Manufacturers' literature is attached.

If you need any further information or have any questions, please let us know.

Very truly yours,

Gordon L. Dickson

Gordon L. Dickson
Manager - Eastern Region
Sales & Technical Service

GLD:cjb
Attachments

A20201

PLAINTIFF'S EXHIBIT
UC-4131
X413506

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Appendix C

C1

A20292

X413507

C2

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Union Carbide trial exhibit UC-4131: Gordon L. Dickson to L. P. Moore (Poly-Fibre, Inc.) on Dust Control Equipment...
ACL Doc 18736 · Page 5 of 9
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C4

① RATINGS

	NO. STATIONS BEING USED	EQUIVALENT DISTANCE	CAPACITY & TOTAL PRESS.
STANDARD SYSTEM	TWO	150 FT.	500 CFM-40"
TWO PARALLEL SYSTEMS	FOUR	150 FT.	600 CFM-40"
THREE " "	SIX	150 FT.	900 CFM-40"
EXTENDED SYSTEM	TWO	300 FT.	500 CFM-60"
" "	FOUR	300 FT.	600 CFM-60"
" "	SIX	300 FT.	900 CFM-60"

② QUANTITIES LEFT OPEN IN MATERIAL LIST WILL BE DETERMINED TO SUIT SPECIFIC SYSTEMS

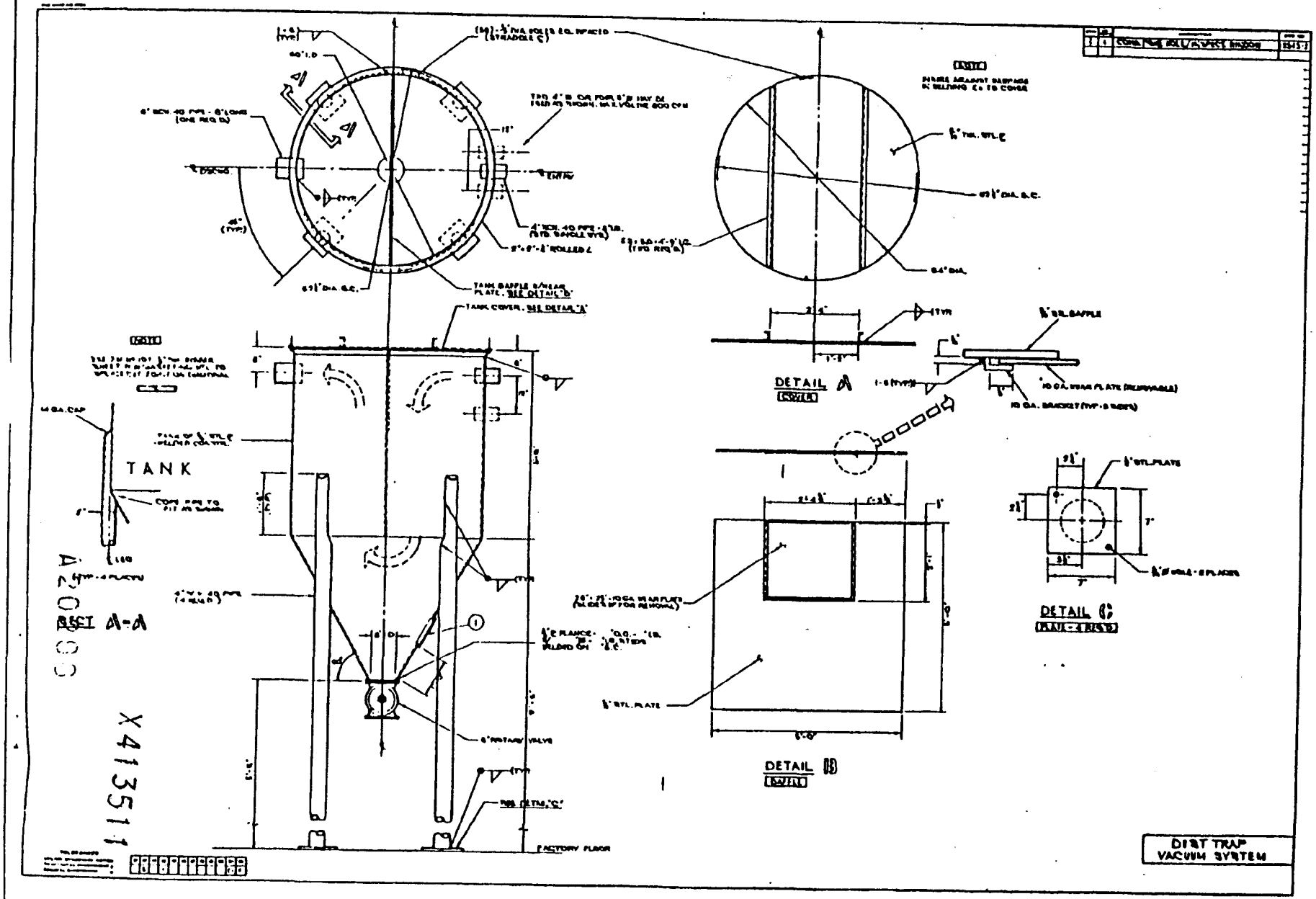
① MATERIAL LIST AND SYSTEM RATINGS

ITEM	NO. USED	DESCRIPTION	DWG. NO.
1	1	FAN - BUFFALO, LAWSON, CLARAGE, NEW YORK BLOWER, OR EQUAL. LOW-VOLUME, HIGH-PRESSURE, DIRECT-CONN'D., ARR. NO. 4.	
2	-	INLET VALVE - HOFFMAN NO. 594G5 OR EQUAL	
3	-	HOSE - FLEXIBLE, REINFORCED W/2" STEEL NIPPLES. 25 FT LG., HOFFMAN STYLE VF OR EQUAL	
4	-	FLOOR ROD, CURVED, 2" I.D. FEMALE SLIP-JOINTS, HOFFMAN NO. 39447 OR EQUAL	
5	-	FLOOR NOZZLE, GRIPPER STYLE, 2" O.D. MALE END, HOFFMAN NO. 38410 OR EQUAL	
6	-	ELBOW, 2½" BELL END - 2" FPT, STD. RADIUS, 45°, HOFFMAN NO. SA-2011 OR EQUAL	
7	-	ADAPTER, MALE, 2" PIPE THRD. - 2½" NIPPLE - 4" LG., HOFFMAN NO. SA-202 OR EQUAL	
8	-	ELBOW, 2½" BELL ENDS, STD. RADIUS, 90° HOFFMAN NO. S-202 OR EQUAL	
9	1	FLEXIBLE CONNECTION, 6" Ø I.D., FLANGED, NEW YORK BLOWER CO. OR EQUAL	
10		ELBOW, 6" BELL ENDS, STD. RADIUS, 90°, HOFFMAN NO. S-602 OR EQUAL	
11	1	DUST TRAP - J-M STD.	
12	-	DUCT CONSTR. " " GAUGE AS NOTED	D-201.1
13	-	ELBOW, RD., " "	D-202.5-1
E	-	DIRECT CONN'D., OPEN DRIP-PROOF MOTOR	

TOLERANCES
UNLESS OTHERWISE NOTED
FRACTIONAL DIMENSIONS ±
DECIMAL DIMENSIONS ±

.01	.02	.03	.04	.05	.06	.07	.08	.09	.10	.11	.12
	E		I							A	F

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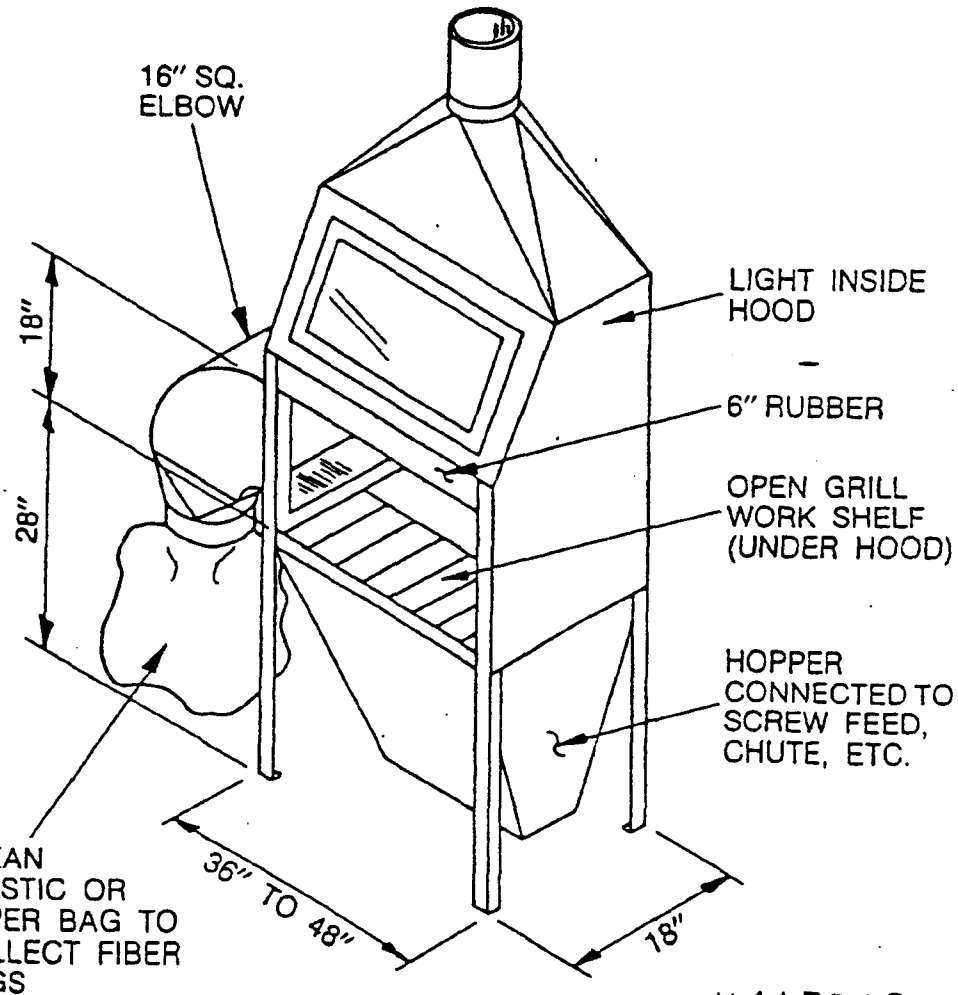


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ACL Doc 18736 · Page 6 of 9
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Appendix D

ASBESTOS FIBER
BAG OPENING STATION



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A20207

Full Name	Vac-U-Max Company	Interviewed
Address	277 Main Street Belleville, NJ 07109 (201) 482-1000 or 759-4400	Mr. Robert Schuhmann Mr. Jim Cook - Testing Dept.
Mfrs. of		

The subject of this meeting was to discuss the type of conveying equipment applicable to asbestos use for controlling dust in various types of customer applications. Their transfer equipment is based on negative pressure units utilizing compressors or Venturi units. Pickup is by high-suction vacuum transferred to batch operation such as mixing blenders, etc. where feed hoppers are utilized. The feed hopper most effective with asbestos is a straight wall tube with models ranging from 10 to 12 inch diameters and capacities of from one to two cubic feet. The Venturi system has the advantage of low cost and no moving parts.

The principal requirement is sufficient air which must be in the range of 90 to 120 psi. Transfer rates with this type of equipment is in the range of 2000 to 7500 pounds per hour. Costs of the transfer and hopper units fall in the range of $3,000 to $5,000 depending upon the size of the hopper and whether or not a Venturi can be used rather than a compressor. Typically, a minimum 7-1/2 horse compressor is required giving 8 to 9 inches of mercury and compressor output of 4 to 5 cfm per horse power averaging 35 scfm.

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