

Research & Engineering Center
March 23, 1972

E. M. Fenner - Denver

**SPECIAL DUST SURVEY
TRANSITE PIPE FIELD OPERATIONS**

Personal dust samples were taken by the membrane Filter method on several field operations that are performed on TRANSITE Pipe. The initial tests were conducted on March 9, 1972 located outside between PD #1 Building and New Business Building. Moderate to strong drafts were present primarily in a direction away from the operation. However, frequent swirling winds contaminated the sample area.

Bob Anderson and Vinco Pacifico performed the operations and Larry Jarema and Joe Macko conducted the sampling.

Three different sized pipes were used during the tests; 4 in. Telephone Duct, 6 in. CL 150 Water Pipe, and 8 in. CL 2400 Sewer Pipe. The samples were of very short duration, covering the time required for a single operation. The test results are listed below.

<u>Operation</u>	<u>Pipe Size</u>	<u>Sample Time, min.</u>	<u>F/cc</u>
Skill Saw Cutting	4 in.	4.2 20	123.0 4.1
	6 in.	4.6 20	129.0 2.9
	8 in.	4.8 20	96.0 4.5
Hand Rasping	6 in.	5.0	8.2
	8 in.	4.6	20.0
Power Machining	6 in.	4.1	28.0
	8 in.	3.4	24.0
Manual Machining	4 in.	3.0	13.7
	6 in.	3.0	3.6
	8 in.	4.5	20.0
Power Cutting with Carbide Tip Blade	4 in.	3.6	6.9
	6 in.	6.0	5.5
	8 in.	5.0	9.9
Hammer and Chisel (Tapping for Sewer Saddle)	8 in.	6.6	19.0
Hand Sawing	4 in.	5.0	3.3

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E. H. Fenner
March 23, 1972

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Due to the sampling duration, the values listed above are not truly representative of the average concentration. Therefore, specific operations were re-tested on March 17, 1972 for the purpose of repeating the operations in order to obtain a sufficient sampling time. The results of this survey are listed below.

<u>Operation</u>	<u>Pipe Size</u>	<u>Sampling Time, min.</u>	<u>F/cc</u>
Power Machining	6 in.	20	1.2 0.6
	8 in.	20	4.1 0.4
Manual Machining	4 in.	20	2.5 0.4
	6 in.	20	3.3 1.2
	8 in.	20	2.5 0.4
Hand Rasping	6 in.	20	2.5 1.6
	8 in.	20	2.9 1.2
Hammer and Chisel (Tapping for Sewer Saddle)	8 in.	20	2.5 1.2

E. J. Bulava
E. J. Bulava

dc

cc

G. L. Swallow - Denver
R. C. Anderson

MT003747

Research & Engineering Center
April 14, 1972

E. M. Fenner - Denver

**SPECIAL DUST SURVEY
TRANSITE PIPE FIELD OPERATIONS**

Personal dust samples on several field operations that are performed on TRANSITE pipe have been re-tested. Samples taken on April 10, 1972 were obtained outside between PD #1 Building and New Business Building. Strong drafts were present blowing dust away from the operator.

Due to rain, those taken on April 13, 1972 were inside the walkway connecting PD #1 and PD #2. The large doors on both sides of the walkway were opened and a moderate draft was blowing away from the operator.

Bob Anderson performed the operations and Joe Macko and Tom Bordas conducted the sampling.

Pipes used for testing were 4 in. Telephone Duct, 6 in. CL150 Water Pipe and 8 in. CL2400 Sewer Pipe. All samples were of 20 minute duration. The test results are as follows:

<u>Operation</u>	<u>Date</u>	<u>Pipe Size</u>	<u>F/cc</u>
Manual Machining	4-10-72	4 in.	0.4
		6 in.	1.2
		8 in.	0.4
Power Machining	4-10-72	6 in.	0.6
		8 in.	0.4
Hand Rasping	4-10-72	6 in.	1.6
		8 in.	1.2
Hammer and Chisel (Tapping for Sewer Saddle)	4-10-72	8 in.	1.2
Skill Saw Cutting	4-13-72	4 in.	4.1
		6 in.	2.9
		8 in.	4.5

E. J. Dulava
E. J. Dulava

cc: G. L. Swallow - Denver
R. S. Anderson - Manville

MT003745

Environmental Control Department
Denver GHQ
July 20, 1972

Pipe Cut

PIPE FABRICATION

<u>Date</u>	<u>Operation</u>	<u>Count F/cc</u>	<u>Pipe Size</u>	<u>Comments</u>
4/10/72 (1)	Power Machining	0.6 0.4	6" 8"	Sampled inside walkway - strong draft blowing away from operator.
3/9/72 (2)	Power Machining	28.0 24.0	6" 8"	Sampled outside - moderate to strong drafts present - Frequent swirling winds contaminated area - Short sample time - not representative of the average concentration.
3/17/72 (3)	Power Machining	1.2 4.1	6" 8"	Sufficient sampling time.
4/10/72	Manual Machining	0.4 1.2 0.4	4" 6" 8"	Sampled inside walkway - Strong draft blowing away from operator.
3/9/72	Manual Machining	13.7 3.6 20.0	4" 6" 8"	Same as item #2
3/17/72	Manual Machining	2.5 3.3 2.5	4" 6" 8"	Same as item #3
4/10/72	Hand Rasping	1.6 1.2	6" 8"	Same as item #1
3/9/72	Hand Rasping	8.2 20.0	6" 8"	Same as item #2
3/17/72	Hand Rasping	2.5 2.9	6" 8"	Same as item #3

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PIPE FABRICATION

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July 20, 1972

<u>Date</u>	<u>Operation</u>	<u>Count F/cc</u>	<u>Pipe Size</u>	<u>Comments</u>
4/10/72	Skil Saw	4.1 2.9 4.5	4" 6" 8"	Same as item #1
3/9/72	Skil Saw	123.0 129.0 96.0	4" 6" 8"	Same as item #2
4/10/72	Hammer & Chisel (Tapping for Sewer Saddle)	1.2	8"	Same as item #1
3/9/72	Hammer & Chisel (Tapping for Sewer Saddle)	19.0	8"	Same as item #2
3/17/72	Hammer & Chisel (Tapping for Sewer Saddle)	2.5	8"	Same as item #3
3/9/72	Power Cutting with Carbide Tip Blade	6.9 5.5 9.9	4" 6" 8"	Same as item #2
3/9/72	Hand Sawing	3.3	4"	Same as item #2

MT003749

Environmental Control Department
Denver GHQ
March 6, 1972

File

MAR 16 1972

MAR 7 1972

W. J. Scott - Stockton

CO: R. M. Candee - Manville
M. Harris
S. J. McDuff
E. H. Brundrett
File & C

PACIFIC GAS AND ELECTRIC COMPANY - CALIFORNIA
EMERGENCY STANDARDS FOR EXPOSURE TO ASBESTOS DUST

R. M. Candee forwarded to me a copy of your letter to him dated February 16, 1972. The best interim answer to the question raised by Mr. Henry Hoenter of Pacific Gas and Electric is that the Finishing Ends of our own pipe plants are within the OSHA Standards.

As a final answer, I suggest you tell Mr. Hoenter that within the next two weeks we will sample the dust levels to which an operator cutting and tapering asbestos-cement duct would be exposed, using the OSHA recommended membrane filter/personal air sampler technique for determining these dust concentrations. Results from these tests will be forwarded as soon as they are received.

Emy
E. M. Fenner

EMF/ems

MT003744

Ed
Be sure to sample cutting
with wheel cutter & pilot
cutter as well as skill
saw. We will probably
measure only cutters & not
skill saw. Mike Harris

AFFIDAVIT

STATE OF COLORADO)
) ss.
COUNTY OF JEFFERSON)

I, Margaret J. Baumgardner, being of full age and first duly sworn do hereby state:

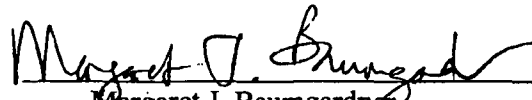
1. I am the Research Coordinator for the Claims Resolution Management Corporation ("CRMC"), a wholly owned subsidiary of the Manville Personal Injury Settlement Trust ("Trust"). The CRMC was created in December 1998 and is staffed by former Trust employees. On January 1, 1999, CRMC began providing claims resolution facility services to the Trust.

2. In this position, I manage the Asbestos Claims Research Facility ("Facility"), a document and records repository, located at 4755 East 46th Avenue, Denver, Colorado. The Facility contains the business records including but not limited to correspondence, memoranda, reports, records and data compilations ("records") of Manville Corporation or related entities ("Manville"), generally, as well as Manville records relevant to litigation of asbestos liability. The Trust has managed and operated the Facility from November 28, 1988, the date on which the Manville bankruptcy plan was consummated.

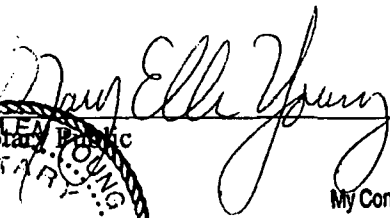
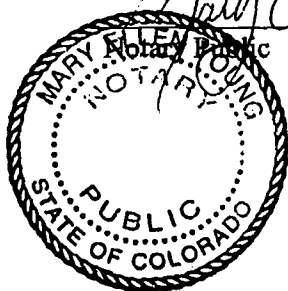
3. My experience and familiarity with the documents at the Facility began in 1983 while working for Manville. In my work as a paralegal for Manville, I assisted in locating, indexing and packing many of the records which became the foundation documents for the Facility. I continued to work for Manville until September 1987. From March 1988 to September 1988, I was hired to supervise and assist in the indexing of the first 20,000 boxes which were turned over to the Trust in November 1988. From September 1988 to January 1989, I assisted in the privilege review of documents to be given to the Trust. From November 1988 to April 1994, I worked for Freeborn & Peters and was put in charge of the Facility, managing all productions and "new" acquisitions. In September 1995, I was hired by the Trust to manage the Facility. In December 1998, I was hired by the CRMC to manage the Facility for the Trust. Accordingly, I am personally familiar with many of the records stored at the Facility, as well as how the records have been gathered.

4. To the best of my present knowledge, information and belief, I certify that these records were made at or near the time by, or from information transmitted by, a person with knowledge, were kept in the course of the regularly conducted business activity of Manville, and it was the regular practice and the business activity of Manville to make the records.

5. Documents from this Facility were copied for Trine & Metcalf. The documents copied have come from microfilm at the Facility and are bates labeled MT003743 through MT003749, and these documents are true and correct copies of documents found at the Facility.


Margaret J. Baumgardner

Subscribed and sworn to before
me this 12th day of April, 2004.

My Commission Expires December 11, 2006
4350 Wadsworth Boulevard
Wheat Ridge, Colorado 80033