file JFQ

C. M. Pierce, J. F. Queeny Plant

February 12, 1973 Carl Bohl, Medical Dept.

Asbestos Samples

Mr. John D. Fairing

Corp. Research - S3B

Asbestos samples for 7 separate Queeny Plant operations (jobs) are submitted together with data sheets for each sample. These are for your analysis and fiber count.

Expenses or costs involved in the analysis may be charged to Account 2-01-908.10.

Your prompt attention to this request is appreciated.

C. M. Pierce
Safety Department

CMP:cs

Encl. 7 samples and data sheets

TO:

SUBJECT: Asbestos Sampling -- Quarry Plant

ASB #1 -- Mixing Mud by Insulators (2/7/73)

Material: John Manville No 352, Asbestos shorts, 50# bag

Container: 18" X 36" X 12" unventilated box.

Procedure: water charged
8:21 -- empty bag carefully into water
8:22½ -- bag empty, leave powder soak in water.
8:24½ -- start mixing with hoe
8:25½ -- add more water
8:26½ -- job complete

Duration of Test = 5½ minutes

Setting on Pump = 1.6 L/min.

Personal observation = Operator wore dust cloth
Difficult to visualize problem here.
Respiratory Equipt: worn: 3M Non-Toxic particle mask #8500 No BM Approval
Same used for ASB #2 & #3

ASB #2 -- Wrapping steam lines with Asbestos Tape (2/7/73)

Material: John Manville No 122, Woven Asbestos, 2" rolls.

Prep: 5' section of 1" pipe mounted in Bench vise.

Procedure:
8:32½ -- roll off a strip of tape and cut
8:33 -- start applying to pipe
8:36½ -- tape on and wired at each end.

Duration of Test: 4 minutes

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Setting on Pump = 1.6 L/min

Personal Observation = Absolutely no problem here.

ASB #3 -- Wrapping steam lines with Asbestos Tape 6/7/73

Mat. & Prep : same as ABS #2

Procedure :

8:40½ --- begin removing wrapped section of line
8:41½ -- tape off, cut first third and rewrap pipe in 3 sections
8:45 -- second cut with scissors
8:47½ -- " wrap complete
8:48½ -- third cut
8:49½ -- job is completed

Duration of Test : 9½ minutes

Setting on Pump = 1.6 L/min

Personal Observation = Absolutely no problem.

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MONSANTO COMPANY

CORPORATE RESEARCH DEPARTMENT

PHYSICAL SCIENCES CENTER

MICROSCOPY GROUP

ST. LOUIS

ASBESTOS FIBER COUNT

FOR

C. M. PIERCE

LOCATION

J. F. QUEENY PLANT

SAMPLE IDENTIFICATION

ASB 1

TOTAL NUMBER OF FIELDS COUNTED =	40.	
FIELD SIZE =	0.003842	SQUARE MILLIMETERS
TOTAL NUMBER OF FIBERS COUNTED =	3.	
AVERAGE NUMBER OF FIBERS PER FIELD =	0.075	
AREA OF FILTER =	855.	SQUARE MILLIMETERS
TOTAL NUMBER OF FIBERS ON FILTER =	16691.	
AIR FLOW =	1.60	LITERS PER MINUTE
SAMPLING TIME =	5.5	MINUTES
TOTAL VOLUME OF AIR SAMPLED =	8.80	LITERS

FIBERS PER CUBIC CENTIMETER OF AIR = 1.897

DATE: FEBRUARY 16, 1973

COUNTED BY: J. D. FAIRING

REQUEST NO: 270121

MON 27401

MONSANTO COMPANY

CORPORATE RESEARCH DEPARTMENT

PHYSICAL SCIENCES CENTER

MICROSCOPY GROUP

ST. LOUIS

ASBESTOS FIBER COUNT

FOR

C. M. PIERCE

LOCATION

J. F. QUEENY PLANT

SAMPLE IDENTIFICATION

ASB 2

TOTAL NUMBER OF FIELDS COUNTED =	40.	
FIELD SIZE =	0.003842	SQUARE MILLIMETERS
TOTAL NUMBER OF FIBERS COUNTED =	3.	
AVERAGE NUMBER OF FIBERS PER FIELD =	0.075	
AREA OF FILTER =	855.	SQUARE MILLIMETERS
TOTAL NUMBER OF FIBERS ON FILTER =	16691.	
AIR FLOW =	1.60	LITERS PER MINUTE
SAMPLING TIME =	4.	MINUTES
TOTAL VOLUME OF AIR SAMPLED =	6.40	LITERS

FIBERS PER CUBIC CENTIMETER OF AIR = 2.608

DATE: FEBRUARY 16, 1973

COUNTED BY: J. D. FAIRING

REQUEST NO: 270121

MON 27402

MONSANTO COMPANY

CORPORATE RESEARCH DEPARTMENT

PHYSICAL SCIENCES CENTER

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ST. LOUIS

ASBESTOS FIBER COUNT

FOR

C. M. PIERCE

LOCATION

J. F. QUEENY PLANT

SAMPLE IDENTIFICATION

ASB 3

TOTAL NUMBER OF FIELDS COUNTED =	40.	
FIELD SIZE =	0.003842	SQUARE MILLIMETERS
TOTAL NUMBER OF FIBERS COUNTED =	9.	
AVERAGE NUMBER OF FIBERS PER FIELD =	0.225	
AREA OF FILTER =	855.	SQUARE MILLIMETERS
TOTAL NUMBER OF FIBERS ON FILTER =	50072.	
AIR FLOW =	1.60	LITERS PER MINUTE
SAMPLING TIME =	9.5	MINUTES
TOTAL VOLUME OF AIR SAMPLED =	15.20	LITERS

FIBERS PER CUBIC CENTIMETER OF AIR = 3.294

DATE: FEBRUARY 16, 1973
COUNTED BY: J. D. FAIRING
REQUEST NO: 270121

MON 27403

ASBESTOS SAMPLING LOG

LOCATION: Storeroom DDD Bldg. JFQ.

SAMPLE NO.: ASB-7

MATERIAL SAMPLED (Mfgr. Identification) Accumulations of Various Asbestos Dusts on table top, on floor and on equipment

DATE SAMPLED: 2/9/73

DESCRIPTION OF JOB OR OPERATION: House Cleaning – Cleaning table top & floor after gasket Cutting operations

SAMPLING DEVICE: MSA Dust Sampling Pump.

FILTER: Millipore filter

AIR FLOW RATE: 1.6 Liter/Min.

TIME START: 10:10 AM

TIME STOP: 10:20 AM

WORKER'S NAME: HARTZ

RESPIRATORY PROTECTION USED: BH Appvd. Respirator

ANALYSIS:

MON 27398

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ST. LOUIS

ASBESTOS FIBER COUNT

FOR

C. M. PIERCE

LOCATION

J. F. QUEENY PLANT

SAMPLE IDENTIFICATION

ASB 7

TOTAL NUMBER OF FIELDS COUNTED =	40.	
FIELD SIZE =	0.003842	SQUARE MILLIMETERS
TOTAL NUMBER OF FIBERS COUNTED =	0.	
AVERAGE NUMBER OF FIBERS PER FIELD =	0.000	
AREA OF FILTER =	855.	SQUARE MILLIMETERS
TOTAL NUMBER OF FIBERS ON FILTER =	0.	
AIR FLOW =	1.60	LITERS PER MINUTE
SAMPLING TIME =	10.	MINUTES
TOTAL VOLUME OF AIR SAMPLED =	16.00	LITERS

FIBERS PER CUBIC CENTIMETER OF AIR = 0.000

DATE: FEBRUARY 16, 1973

COUNTED BY: J. D. FAIRING

REQUEST NO: 270121

MON 27407

ASBESTOS SAMPLING LOG

LOCATION: Store room DDD Bldg. JFQ

SAMPLE NO.: ASB-6

MATERIAL SAMPLED (Mfgr. Identification)
Jones-Manville #106 Asbestos Millboard 1/4"

DATE SAMPLED: 2/9/73

DESCRIPTION OF JOB OR OPERATION: using Bandsaw. Cut 14 pcs 20" long.

SAMPLING DEVICE: MSA Dust Sampling Pump
FILTER: Millipore pore Size .8

AIR FLOW RATE: 1.6 Liter/Min
(Spot Ventilation system in operation)

TIME START: 10:00 AM
TIME STOP: 10:05 AM

WORKER'S NAME: HARTZ

RESPIRATORY PROTECTION USED: BM appvd Respirator

ANALYSIS:

MON 27397

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ST. LOUIS

ASBESTOS FIBER COUNT

FOR

C. M. PIERCE

LOCATION

J. F. QUEENY PLANT

SAMPLE IDENTIFICATION

ASB 6

TOTAL NUMBER OF FIELDS COUNTED =	40.	
FIELD SIZE =	0.003842	SQUARE MILLIMETERS
TOTAL NUMBER OF FIBERS COUNTED =	6.	
AVERAGE NUMBER OF FIBERS PER FIELD =	0.150	
AREA OF FILTER =	855.	SQUARE MILLIMETERS
TOTAL NUMBER OF FIBERS ON FILTER =	33381.	
AIR FLOW =	1.60	LITERS PER MINUTE
SAMPLING TIME =	5.	MINUTES
TOTAL VOLUME OF AIR SAMPLED =	8.00	LITERS

FIBERS PER CUBIC CENTIMETER OF AIR = 4.173

DATE: FEBRUARY 16, 1973
COUNTED BY: J. D. FAIRING
REQUEST NO: 270121

MON 27406

ASBESTOS SAMPLING LOG

LOCATION: STOREROOM OOD Bldg (JFK)

SAMPLE NO.: ASB-4

MATERIAL SAMPLED (Mfgr. Identification) CAREY'S ASBESTOS Millboard 1/4"
Spec. Johns MANSville Style 106 42"x48" Asbestos Millboard

DATE SAMPLED: 2/9/73

DESCRIPTION OF JOB OR OPERATION: Cutting 1/4" thick Circular gaskets from Millboard use of Portable "Cuta Wal" Vibrator Saw on Work TABle. Cutting Done on top of 5 layers of Asbestos Millboard

SAMPLING DEVICE: MSA Sampling pump
FILTER: Millipore Field Monitor Pore Size .8

AIR FLOW RATE: 1.6 liters/min

TIME START: 8:40 AM
TIME STOP: 9:00 AM

WORKER'S NAME: HARTZ

RESPIRATORY PROTECTION USED: BM approved Dustfoe

ANALYSIS:

MON 27395

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CØRPØRATE RESEARCH DEPARTMENT

PHYSICAL SCIENCES CENTER

MICRØSCØPY GRØUP

ST. LØUIS

ASBESTØS FIBER CØUNT

FØR

C. M. PIERCE

LØCATIØN

J. F. QUEENY PLANT

SAMPLE IDENTIFICATIØN

ASB 4

TØTAL NUMBER ØF FIELDS CØUNTED =	40.	
FIELD SIZE =	0.003842	SQUARE MILLIMETERS
TØTAL NUMBER ØF FIBERS CØUNTED =	6.	
AVERAGE NUMBER ØF FIBERS PER FIELD =	0.150	
AREA ØF FILTER =	855.	SQUARE MILLIMETERS
TØTAL NUMBER ØF FIBERS ØN FILTER =	33381.	
AIR FLØW =	1.60	LITERS PER MINUTE
SAMPLING TIME =	20.	MINUTES
TØTAL VØLUME ØF AIR SAMPLED =	32.00	LITERS

FIBERS PER CUBIC CENTIMETER ØF AIR = 1.043

DATE: FEBRUARY 16, 1973
CØUNTED BY: J. D. FAIRING
REQUEST NØ: 270121

MON 27404

ASBESTOS SAMPLING LOG

LOCATION: STOREROOM DDD Bldg. JFQ

SAMPLE NO.: ASB-5

MATERIAL SAMPLED (Mfgr. Identification)
Compressed CHRYSOTILE ASBESTOS SRB Binder Style GARLOCK #7021

DATE SAMPLED: 2/9/93

DESCRIPTION OF JOB OR OPERATION: Cutting Circular gaskets 1/8" thick using Portable Vibrator Saw. Gaskets 6 5/8" I.D. Work performed on work table w/ 5 layers 1/4" Material 106 beneath
SAMPLING DEVICE: MSA GRAVIMETRIC Dust Sampling Pump
FILTER: Millipore pore size .8

AIR FLOW RATE: 1.6 liters/min.

TIME START: 9:36 AM
TIME STOP: 9:56 AM

WORKER'S NAME: HARTZ

RESPIRATORY PROTECTION USED: Dustfoe Bell 9/11.

ANALYSIS:

MON 27396

MONSANTO COMPANY

CORPORATE RESEARCH DEPARTMENT

PHYSICAL SCIENCES CENTER

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ST. LOUIS

ASBESTOS FIBER COUNT

FOR

C. M. PIERCE

LOCATION

J. F. QUEENY PLANT

SAMPLE IDENTIFICATION

ASB 5

TOTAL NUMBER OF FIELDS COUNTED =	40.	
FIELD SIZE =	0.003842	SQUARE MILLIMETERS
TOTAL NUMBER OF FIBERS COUNTED =	4.	
AVERAGE NUMBER OF FIBERS PER FIELD =	0.100	
AREA OF FILTER =	855.	SQUARE MILLIMETERS
TOTAL NUMBER OF FIBERS ON FILTER =	22254.	
AIR FLOW =	1.60	LITERS PER MINUTE
SAMPLING TIME =	20.	MINUTES
TOTAL VOLUME OF AIR SAMPLED =	32.00	LITERS

FIBERS PER CUBIC CENTIMETER OF AIR = 0.695

DATE: FEBRUARY 16, 1973
COUNTED BY: J. D. FAIRING
REQUEST NO: 270121

MON 27405