PLAINTIFF'S EXHIBIT

UC-3027

APR 14 1983

INTERNAL CORRESPONDENCE

UNION CARBIDE CORPORATION PO BOX 579, 4625 ROYAL AVE.
METALS DIVISION NIAGARA FALLS, NEW YORK 14302

To (Name)	Messrs. R. J. Kronkhyte	Date	April 11, 1983
Division	J. L. Myers		
Location	UCC - Metals Division	Originating Dept.	New Product Development
Area	King City, CA	Area	
Copy to	Messrs. G. L. Dickson	Subject	Asbestos Dust Control Results of NIOSH Air Monitoring Survey of King City Bagging Room Operations
	T. J. Kagetsu		
	D. F. Kapral		
	R. O. Marsten		
	H. B. Rhodes		
	J. B. Rouse		Project No. 530-10903
	F. L. Smith		
	W. C. Thurber		

During the week of January 23-30, 1983, NIOSH ran a three-day air monitoring survey of the plant bagging operations. Objectives of the survey, test protocols and operating conditions are discussed in the attached report issued by the writer February 3, 1983.

The fiber count results for March 25, 26 and 27 are shown in Tables I, II and III, respectively. Ceiling value concentrations in the main circuit bagging area ranged from 0.4 to 6.8 fibers/cc for personal samples. Personal ceiling exposures for the RG-244 bagging operator were between 1.1 and 6.6 fibers/cc. Personal time weighted averages (TWA) based on approximately four hours of testing per day demonstrated levels in excess of 2.0 fibers/cc in four separate instances. TWA's for operators in the main circuit bagging room ranged from 0.5 to 3.6 fibers/cc. TWA's for the RG-244 bagger were 1.4 to 3.8 fibers/cc.

The high exposures are attributed for the most part to various mechanical problems evident during the course of these tests; the details of which are covered in the preliminary report appended. However, these tests demonstrate the need for some sort of continuous monitoring program. It would, in my opinion, behoove us to proceed with a plant evaluation of continuous air monitoring equipment as soon as possible.

Tom Cooper, project leader of the NIOSH survey team, contacted me March 30th. They have completed the dust counts and their results are considerably lower than ours. According to Tom, their highest ceiling value was 2.7 fibers/cc and the TWA's were all less than 0.6 fibers/cc. I did not discuss our findings with him. He is sending us copies of their raw data this week. The final report will not be forthcoming for at least another month or two.

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In view of the discrepancies between labs, we recounted several of the more heavily loaded filters. These results are shown in Table IV. Generally speaking, the replicate counts demonstrated correlations with original test results within the accepted limits of variance. With one exception, Sample D-60, the replicate counts were significantly lower than the original count. This sample contained a considerable amount of fine fiber with diameters approaching the visible detection limit at 400X magnification and was very difficult to count. This type of fiber was detected in some of the other RG-244 samples as well. With fine particulate of this nature, every field viewing area has to be scrutinized in detail at several focal planes. Normally, a sample can be counted in 10 to 20 minutes. By comparison, it took approximately an hour to count D-60.

As you are aware, our fiber does not exhibit the morphology typical of Canadian chrysotile. Coalinga asbestos has a much smaller mean diameter and fiber length distribution. Because of this and the fact that most counting laboratories are not familiar with Coalinga asbestos, their fiber counts are often artifically low. I should point out that it is possible that the NIOSH counts are correct. Prior studies have shown that the variance between simultaneous multiple samples can be quite high. In this instance, however, I think the problem is related to differences in the counting procedure rather than between samples. It would appear that the NIOSH counting lab missed a significant amount of asbestos fiber in some of the samples.

B. L. Ingalls

BLI:et
Attach.

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TABLE I

KING CITY AIR MONITORING TEST RESULTS - MARCH 25, 1983

Main Circuit Bagging Area					RG-244 Circuit Bagging Area				
Sample No.	Sample Identification	Time On	Time Off	Fibers/cc of air	Sample No.	Sample Identification	Time On	Time Off	Fibers/cc of air
D-54	Personal - L. Trevino-bagger	8:05	10:01	0.7	D-60	Personal - J. Godinho-bagger	10:34	12:01	6.6(2)
D-44	Personal - L. Trevino-bagger	13:47	15:34	6.8(1)	D-52	Personal - J. Godinho-bagger	13:50	15:32	1.5
			(TWA = 3.6)					(TWA = 3.8)	
D-45	Personal - M. Segobia-palletizer	8:13	10:01	0.4	D-69	Area - near broken bag disposal unit	10:31	11.56	0.1
D-64	Personal - M. Segobia-palletizer	13:45	15:34	0.6	J-54	Area - near broken bag disposal unit	13:51	15:31	0.2
			(TWA = 0.5)					(TWA = 0.2)	
D-56	Area - at end of bag shaper	8:04	10:07	0.1	D-59	Area - over bagging unit	10:33	11:58	0.3
D-51	Area - at end of bag shaper	13:46	15:38	0.3	J-34	Area - over bagging unit	13:54	15:31	0.2
			(TWA = 0.2)					(TWA = 0.2)	
D-63	Area - over bagging unit	8:11	10:05	0.2					
D-65	Area - over bagging unit	13:42	15:39	0.3					
			(TWA = 0.3)						

(1) Bagger entered product bin for ∿ 20 minutes during this sample period.

(2) RG-244 bagging unit not working properly. Some bag breakage occured during this period.

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TABLE II

KING CITY AIR MONITORING TEST RESULTS - MARCH 26, 1983

Main Circuit Bagging Area				
Sample No.	Sample Identification	Time On	Time Off	Fibers/cc of air
J-36	Personal - L. Trevino-bagger	8:05	10:00	2.8
K-41	Personal - L. Trevino-bagger	12:56	15:07	1.4
			(TWA = 2.1)	
D-57	Personal - M. Segobia-palletizer	8:01	10:00	1.3
D-74	Personal - M. Segobia-palletizer	12:58	15:09	1.1
			(TWA = 1.2)	
E-68	Area - Over main bagging unit	7:41	9:58	0.6
L-74	Area - Over main bagging unit	12:42	15:10	0.4
			(TWA = 0.5)	
J-53	Area - Over Auger packer	7:46	9:58	0.9
K-35	Area - Over Auger packer	12:43	15:10	1.3
			(TWA = 1.1)	
D-50	Area - Over bag shaper	7:43	9:56	0.4
K-36	Area - Over bag shaper	12:44	15:08	0.2
			(TWA = 0.3)	

RG-244 Circuit Bagging Area				
Sample No.	Sample Identification	Time On	Time Off	Fibers/cc of air
H-14	Personal - J. Godinho-bagger	8:05	9:56	1.8
J-32	Personal - J. Godinho-bagger	12:52	15:01	1.1
			(TWA = 1.4)	
K-31	Area - Near broken bag disposal unit	8:00	9:56	0.2
C-23	Area - Near broken bag disposal unit	12:49	15:02	0.3
			(TWA = 0.3)	
J-50	Area - Over bagging unit	8:01	9:56	0.1
J-20	Area - Over bagging unit	12:50	15:03	0.1
			(TWA = 0.1)	

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TABLE III

KING CITY AIR MONITORING TEST RESULTS - MARCH 27, 1983

Main Circuit Bagging Area				
Sample No.	Sample Identification	Time On	Time Off	Fibers/cc of air
E-65	Personal - L. Trevino-bagger	8:01	9:59	1.6
A-16	Personal - L. Trevino-bagger	13:15	15:19	1.1
			(TWA = 1.3)	
C-30	Personal - M. Segobia-palletizer	8:02	10:01	0.5
K-45	Personal - M. Segobia-palletizer	13:18	15:20	0.9
			(TWA = 0.7)	
K-10	Area - Over main bagging unit	8:03	10:10	<0.1
J-67	Area - Over main bagging unit	13:16	15:21	0.9
			(TWA = 0.5)	
C-32	Area - Over Auger packer	8:03	10:08	0.1
J-66	Area - Over Auger packer	13:16	15:21	1.2
			(TWA = 0.7)	
K-30	Area - Over bag shaper	8:05	10:06	<0.1
D-76	Area - Over bag shaper	13:18	15:22	0.5
			(TWA = 0.3)	

RG-244 Circuit Bagging Area				
Sample No.	Sample Identification	Time On	Time Off	Fibers/cc of air
D-40	Personal - J. Godinho-bagger	8:11 9:31	8:14 10:01	5.1(1)
J-72	Personal - J. Godinho-bagger	13:28	15:14	1.4
			(TWA = 2.3)	
B-96	Area - Near broken bag disposal unit	8:02	9:56	0.7
C-26	Area - Near broken bag disposal unit	13:16	15:13	0.4
			(TWA = 0.5)	
B-53	Area - Over bagging unit	8:03	8:14	5.5(1)
L-85	Area - Over bagging unit	13:16	15:14	0.1
			(TWA = 0.5)	

(1) RG-244 bagging unit had a leak and repairs took most of the morning.

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TABLE IV

UCC REPLICATE FIBER COUNTS

Sample No.	Original Count(1)	Replicate Count(2)	Replicate Count(3)
J-36	3.1	1.3	2.7
D-40	5.1	4.0	6.2
D-44	6.8	6.7	8.1
D-60	6.6	3.4	4.6
D-64	0.6	0.6	0.6

(1)Performed by F. L. Smith - March 11, 1983

(2)Performed by F. L. Smith - March 29, 1983

(3)Performed by B. L. Ingalls - March 30, 1983

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Niagara Falls, New York, February 3, 1983

REPORT NO. 83-M-4

FILE NO. 530-10903

UNION CARBIDE CORPORATION

METALS DIVISION

TECHNOLOGY DEPARTMENT - PRODUCT DEVELOPMENT

TRIP TO: King City, California

DATE: January 23-30, 1983

BY: B. L. Ingalls

PURPOSE: NIOSH Monitoring Survey

INTRODUCTION

NIOSH ran a three day air monitoring survey of the plant bagging operations. The objective of this study is to document effective methods currently in practice for the control of airborne dust and further promote their use in industry.

DISCUSSION

NIOSH personnel in attendence:

Thomas C. Cooper, Mining Engineer (Project Leader) NIOSH, 4676 Columbia Parkway, Cincinatti, OH 45226, Telephone: 513-684-4320

Paul E. Caplan, P.E., C.I.H. Res. INd. Hygienist (address, same as above) Telephone: 513-684-4442

Alfred A. Amendola, P.E. Chief, Materials Porcessing, (address, same as above) 513-684-4224

Pierre L. Belanger, M.S., Industrial Hygienist, NIOSH, DHEW, region IX 50 United Nations Plaza , San Francisco, CA 94102, telephone: 415-556-3781

Test Protocol

Air samples were obtained on bagging personnel in both the RG-244 and Main circuit bagging areas for approximately two consecutive hours in the morning and again in the afternoon of January 25, 26 and 27, 1983. A total of eighteen stationary area locations were also monitored at the same times in the two bagging rooms. NIOSH collected a total of 120 area and 18 personnel samples over the course of the three days. Samples were collected by Union Carbide simultaneously on the three bagging operators and at five of the stationary area points monitored by NIOSH totaling 47 samples in all. Area sampling locations are shown in attached schematics of the RG-244 and Main circuit bagging rooms.

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Test Protocol cont'd

NIOSH also conducted tests for hood face-velocities, duct and static pressure measurements and pitot tube traverses of the ventilation systems in the two bagging areas.

NIOSH used MSA model G pumps calibarated to a setting of 1.5 L/m. UCC used MSA model G and new Gilian model HF 113T pumps also set at 1.5 L/m. Millipore membrane filters of 0.8 micron porosity were used throughout.

Sample identifications and test information regarding sampling times, locations, and other pertinent data are appended. Photographs were taken by NIOSH of the various test locations and negatives were left with UCC for editing prior to release.

Operating Conditions

January 25, 1983- Weather conditions: temperature low 60's with scattered clouds and light to moderate winds (5-15 mph).

The RG-244 bagging unit was not performing properly during the grave shift resulting in excessive bag breakage. The problem was resolved before testing commenced but some breakage did occur during the day. Pellet cooler broke down requiring approximately 1 1/2 days to repair.

Bauer mill seals failed sometime during later part of the grave shift. Both Main circuit and RG-244 products were contaminated with oil necessitating a temporary shut-down and purging of the circuits. The Bauer was bypassed for the remainder of the week while repairs were made. As a result, only RG-244 and SG-103.5 were produced during the monitoring tests. The Black and Stoker packers were used for the main circuit material during the morning of the 25th. Switched to the Auger packer and plastic bags in the afternoon which continued for the remainder of the week. The main circuit bagger went into the product bin during the last 20 minutes of the morning test (sample P-1, 8:05 - 10:01am.

January 26, 1983 - Weather cloudy with a slight drizzle in the afternoon. Temperatures ranged from high 50's to mid 60's. Winds medium to high with gusts 10-30 mph. Some dusting noticed late morning in RG-244 bagging area. A Raymond mill was being repaired and considered a possible source of the problem.

RG-244 bagger went inside the bagging unit temperarily (2-5 minutes) during the morning test. (Sample P-3, 8:05-9:56 am). RG-244 rotolouvre drier was not operating properly. Firing unit repeatedly kicking out causing erratic moisture control. Ultimately, it was repaired during the course of the day.

The main circuit ventilation duct for the broken bag disposal unit was found to be plugged several feet during pitot tests. A considerable dust cloud was generated in the area for approximately 2-3 minutes while the duct was being cleaned at 3:05 - 3:08 pm.

January 27, 1983 - Rain light to heavy during the morning with winds up to 25-35 mph. Temperature 50-55° Cloudy with higher temperatures and intervals of sunshine during the afternoon.

RG-244 bagger unit leaking asbestos fines. Considerable dusting in bag room during grave shift; fines on the rafters and floor etc. Windy conditions caused dust swirling effects in the bag room. Testing was terminated for

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approximately 1 1/2 hours while repairs were made to the bagging unit. NIOSH subsequently decided to discard morning samples obtained in the RG-244 area because of abnormal conditions stated.

Preliminary Observations

Dust and hood velocities measured by NIOSH were found in general to be within design specification limits established by UCC Engineering.

NIOSH Comments:

In general, plant dust controls and work practices were good, but could be improved in some areas. No serious problems were noted. Suggestions included:

1. A ventilation hood over the RG-244 broken bag disposal unit.
2. Modification of the air duct pickup system for the main circuit broken bag disposal system to prevent clogging.
3. The addition of plastic closure strips at the openings of the bag shapers and shrink wrap ovens where not already in use.
4. Bar to be installed across RG-244 bagger hood opening to prevent operators from entering the unit during cleaning.
5. Removal of an elbow in the air duct hose to the RG-244 bagger cone to improve flow.
6. Eliminate spillage from RG-244 bag spouts between packer and weighing scale (work practice problem).
7. An enclosure or hood for the RG-244 Micro-Pulverizer equipment (UCC suggestion).
8. Main circuit bagger enclosure exhaust duct slide gate requires some sort of locking mechanism to prevent accidental closing.
9. Exhaust dust catcher under main circuit straightening belt just before shrink wrapping device not working properly.

CONCLUSIONS

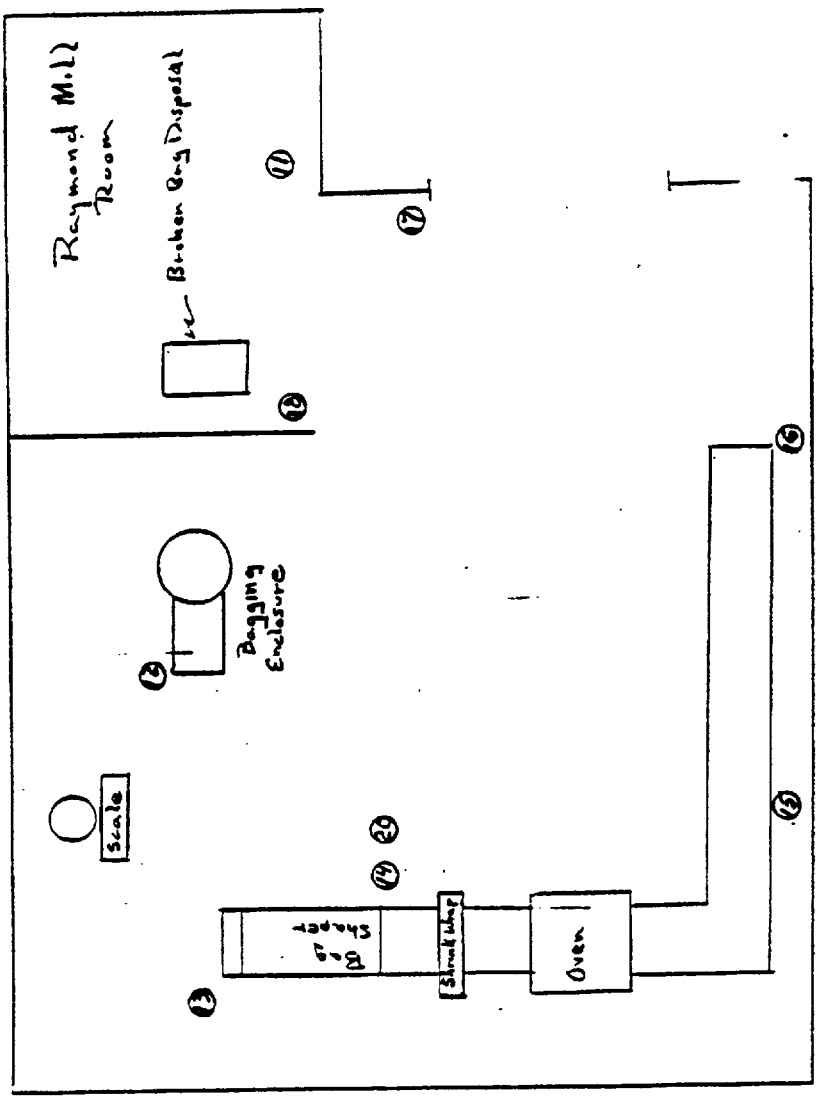
Conclusions are pending completion of the fiber counts and compilation of the test results. At such time, the results of the two laboratories will be exchanged for comparative purposes.

B. L. Ingalls

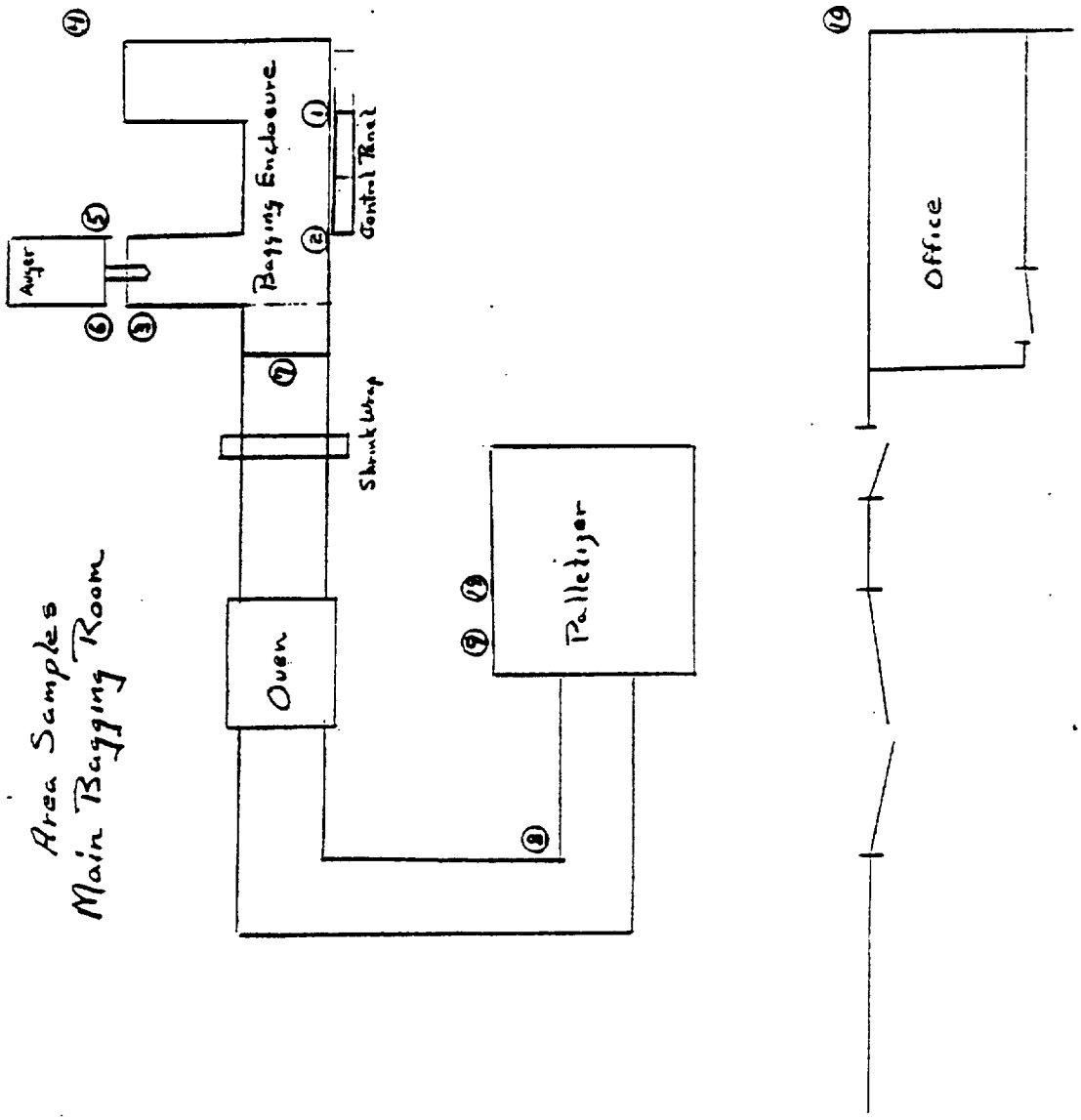
/jl

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Area Samples
RG-244 Bagging Room



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ASBESTOS | INDUSTRIAL HYGIENE SAMPLE SUMMARY

IDENTIFICATION

Plant: King City I.D.#: 640662
Worker Sampled: Lee Tavares
Soc.Sec.#: 572 48 2656
Job Description: ASB Bagger (Main Circuit)
Sample Type: Personal ✓ Area ___
Sampled By: CSL Date: 1/25/83
Counted By: JB Date: 3/10/83

Graticle Field Area: .0038 mm² Type: WB

PERMISSIBLE EXPOSURE LIMIT(S)

TWA: ___
Ceiling: ___
BASIS:
MSHA ___ OSHA ___ STATE ___ UCC ___
OTHER NIOSH

Scheduled Hours Per Shift: ___

WORKPLACE CONDITIONS:

Operations: Normal ___ Not Normal ✓
Explain Bagger Conveyor
Ventilation: Type Exhaust system
Normal ✓ Not Normal ___
Explain ___

WEATHER CONDITIONS:

Precipitation ___ Cloudy ___ Partly Cloudy ✓ Clear ___
Wind: Calm ___ Light ✓ Medium ✓ High ___ Temperature 60 °F

SAMPLING INFORMATION			INPUT DATA						RESULTS			
Sample I.D. / Job Location	Respirator Type / % Use	Pump Type / I.D.#	Time Start (Hr:Min)	Time Stop (Hr:Min)	Flow Rate (lpm)	Count Data Fibers	Count Data Fields	Duration (Min)	Concentration F/cc	Concentration % of PEL	NIOSH	Work Description/Remarks
D-24 P-1		Gilian T-3124	8:05	10:01	1.5	555	100	116	.718		#677	Bagging SG-100
D-44 P-1		Gilian T-3124	13:47	15:34	1.5	121.5	25	107	6.813		#1006	Bagging SG-100
						TWA			3.643			When entire bagging machine for a full 2 hr duration of sampling period

Form: UCC/MTLS-011-02-4/2A

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UCC 001395

ASBESTOS | INDUSTRIAL HYGIENE SAMPLE SUMMARY

IDENTIFICATION

Plant: King City I.D.#: 040162
Worker Sampled: Manuel Segobia
Soc.Sec.#: 549-44-4570
Job Description: asb Pelletizer (Main Circuit)
Sample Type: Personal ✓ Area ___
Sampled By: [illegible] Date: 1/25/82
Counted By: [illegible] Date: 3/11/82

Graticle Field Area: .0038 mm² Type: WA

PERMISSIBLE EXPOSURE LIMIT(S)

TWA: ___
Ceilings: ___
BASIS:
MSHA ___ OSHA ___ STATE ___ UCC ___
OTHER NIOSH

Scheduled Hours Per Shift: ___

WORKPLACE CONDITIONS:

Operations: Normal ___ Not Normal ✓
Explain Dawes Cooling oil *
Ventilation: Type Exhaust Systems
Normal ✓ Not Normal ___
Explain ___

WEATHER CONDITIONS:

Precipitation ___ Cloudy ___ Partly Cloudy ✓ Clear ___
Winds: Calm ___ Light ✓ Medium ✓ High ___ Temperature 60's °F

SAMPLING INFORMATION			INPUT DATA					RESULTS			
Sample I.D. / Job Location	Respirator Type / % Use	Pump Type / I.D.#	Time Start (Hr:Min)	Time Stop (Hr:Min)	Flow Rate (lpm)	Count Data Fibers	Count Data Fields	Duration (Min)	Concentration F/cc	Concentration % of PEL	Work Description/Remarks
D-45 P-2		Gilian T3122	5:13	10:01	1.5	28.5	100	108	396		NIOSH #915 Pelletizing SG-100
D-64 P-2		Gilian T3122	13:43	15:34	1.5	47	100	109	647		#1022 same
							TWA		.522		
											* Dawes shut down annual acon for repairs Pellet cooler also shut down during the day beginning ~ 1½ days to repair

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UCC 001396

ASBESTOS | INDUSTRIAL HYGIENE SAMPLE SUMMARY

IDENTIFICATION

Plant: King City I.D.#: 0401062
Worker Sampled: John Grebinka
Soc.Sec.#: 558-47-2831
Job Description: RC 244 Bagger
Sample Type: Personal ✓ Area ___
Sampled By: [illegible] Date: 1/25/83
Counted By: TS Date: 3/1/83

Graticle Field Area: .0038 mm² Type: HB

PERMISSIBLE EXPOSURE LIMIT(S)

TWA: ___
Ceiling: ___

BASIS:

MSHA ___ OSHA ___ STATE ___ UCC ___
OTHER NIOSH

Scheduled Hours Per Shift: ___

WORKPLACE CONDITIONS:

Operations: Normal ___ Not Normal ✓
Explain: Bagger working oil
Ventilation: Type Exhaust system
Normal ✓ Not Normal ___
Explain ___

WEATHER CONDITIONS:

Precipitation ___ Cloudy ___ Partly Cloudy ✓ Clear ___
Winds: Calm ___ Light ✓ Medium ___ High ___ Temperature 60 °F

SAMPLING INFORMATION → INPUT DATA → RESULTS

Sample I.D. / Job Location	Respirator Type / % Use	Pump Type / I.D.#	Time Start (Hr:Min)	Time Stop (Hr:Min)	Flow Rate (lpm)	Count Data Fibers	Count Data Fields	Duration (Min)	Concentration F/cc	Concentration % of PEL	NIOSH	Work Description/Remarks
D 60 P 1		Gilian T 3324	10:14	12:01	1.5	114.5	30	87	6.581		#881	Bagging (mid-shift 30 min lunch period)
D 52 P 1		Gilian T 3324	13:30	15:32	1.5	99	100	102	1.456		#1014	RC 244 Bagger would not working properly - some bag breakage mostly during opening shift
							TWA		3.815			

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UCC 001397

ASBESTOS | INDUSTRIAL HYGIENE SAMPLE SUMMARY

IDENTIFICATION

Plant: King City I.D.#: 04-0062
Worker Sampled: _____
Soc.Sec.#: _____
Job Description: _____
Sample Type: Personal ___ Area ✓
Sampled By: [illegible] Date: 1/25/83
Counted By: [illegible] Date: 3/11/83

Graticle Field Area: .0038 mm² Type: WB

PERMISSIBLE EXPOSURE LIMIT(S)

TWA: _____
Ceiling: _____

BASIS:

MSHA ___ OSHA ___ STATE ___ UCC ___
OTHER NIOSH

Scheduled Hours Per Shift: _____

WORKPLACE CONDITIONS:

Operations: Normal ___ Not Normal ✓
Explain Burn Cooking oil
Ventilation: Type Exhaust systems
Normal ✓ Not Normal ___
Explain _____

WEATHER CONDITIONS:

Precipitation ___ Cloudy ___ Partly Cloudy ___ Clear ___
Wind: Calm ___ Light ✓ Medium ✓ High ___ Temperature 60°F

SAMPLING INFORMATION			INPUT DATA						RESULTS			
Sample I.D. / Job Location	Respirator Type / % Use	Pump Type / I.D.#	Time Start (Hr:Min)	Time Stop (Hr:Min)	Flow Rate (lpm)	Count Data Fibers	Count Data Fields	Duration (Min)	Concentration F/cc	Concentration % of PEL	NIOSH	Work Description/Remarks
D-56 A-7		G-Class T-2225	8:04	10:07	1.5	8	100	123	.098		#920	Location oven opening at end of bag shaper (~ 18 inches)
D-51 A-2			13:16	15:18	1.5	21.5	100	112	.288		#1020	Same
							TWA		.189			

Form UCC/MTLS-OH-82-4/2A

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UCC 001398

ASBESTOS | INDUSTRIAL HYGIENE SAMPLE SUMMARY

IDENTIFICATION

Plant: King City I.D.#: 040062
Worker Sampled: _____
Soc.Sec.#: _____
Job Description: _____
Sample Type: Personal __ Area ✓
Sampled By: CG Date: 1/25/83
Counted By: JS Date: 3/11/83

Graticle Field Area: .0038 mm² Type: WB

PERMISSIBLE EXPOSURE LIMIT(S)

TWA: _____
Ceiling: _____

BASIS:

MSHA __ OSHA __ STATE __ UCC __
OTHER NIOSH

Scheduled Hours Per Shift: _____

WORKPLACE CONDITIONS:

Operations: Normal __ Not Normal ✓
Explain: Some leaking oil
Ventilation: Type Exhaust systems
Normal ✓ Not Normal __
Explain _____

WEATHER CONDITIONS:

Precipitation __ Cloudy __ Partly Cloudy ✓ Clear __
Wind: Calm __ Light __ Medium ✓ High __ Temperature 60's °F

SAMPLING INFORMATION			INPUT DATA					RESULTS			
Sample I.D. / Job Location	Respirator Type / % Use	Pump Type / I.D.#	Time Start (Hr:Min)	Time Stop (Hr:Min)	Flow Rate (lpm)	Count Data Fibers	Count Data Fields	Duration (Min)	Concentration F/cc	Concentration % of PEL	Work Description/Remarks
C-63		Gilian	8:11	10:05	1.5	12.5	100	114	.164		NIOSH
A-162		T-3276									#9,8,5,8,7 Located overman bagging unit (~ 15 min)
C-65		Gilian	13:42	15:34	1.5	20	100	117	.256		#10005 #1025 Same
A-162		T-3276					TWA		.211		

Form: UCC/MTLS-011-82-4/2A

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ASBESTOS | INDUSTRIAL HYGIENE SAMPLE SUMMARY

IDENTIFICATION

Plant: Kenilworth I.D.#: 64-1062
Worker Sampled: _____
Soc.Sec.#: _____
Job Description: _____
Sample Type: Personal ___ Area ✓
Sampled By: [illegible] Date: 1/25/83
Counted By: [illegible] Date: 3/14/83

Graticle Field Area: .0028 mm² Type: WB

PERMISSIBLE EXPOSURE LIMIT(S)

TWA: _____
Ceiling: _____

BASIS:

MSHA ___ OSHA ___ STATE ___ UCC ___
OTHER MOSH

Scheduled Hours Per Shift: _____

WORKPLACE CONDITIONS:

Operations: Normal ___ Not Normal ✓
Explain Power Lawn mowing
Ventilation: Type Exhaust system
Normal ✓ Not Normal ___
Explain _____

WEATHER CONDITIONS:

Precipitation ___ Cloudy ___ Partly Cloudy ✓ Clear ___
Wind: Calm ___ Light ✓ Medium ✓ High ___ Temperature 60's °F

UCC 001399

SAMPLING INFORMATION			INPUT DATA						RESULTS			
Sample I.D. / Job Location	Respirator Type / % Use	Pump Type / I.D.#	Time Start (Hr:Min)	Time Stop (Hr:Min)	Flow Rate (lpm)	Count Data Fibers	Count Data Fields	Duration (Min)	Concentration F/cc	Concentration % of PEL	MOSH	Work Description/Remarks
T 2 69 A 15		G.Lee T 3372	10:31	11:56	1.5	4.5	100	85	.079		#583	Near RG 244 Kenilworth Ave exhaust discharge (Raymond Miller)
T 24 P 14		G.Lee T-3372	13:51	15:31	1.5	12.5	100	100	.188		#984	Same
							TWA		.138			

Form: UCC/MTLS-OH 82-4/2A

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ASBESTOS | INDUSTRIAL HYGIENE SAMPLE SUMMARY

UCC 001400

IDENTIFICATION

Plant: Kan. City I.D.#: 64-1063
Worker Sampled: _____
Soc.Sec.#: _____
Job Description: _____
Sample Type: Personal __ Area ✓
Sampled By: C.E.C. Date: 1/25/83
Counted By: JS Date: 3/14/83

Graticle Field Area: .0008 mm² Type: WB

PERMISSIBLE EXPOSURE LIMIT(S)

TWA: _____
Ceiling: _____

BASIS:

MSHA __ OSHA __ STATE __ UCC __
OTHER NIOSH

Scheduled Hours Per Shift: _____

WORKPLACE CONDITIONS:

Operations: Normal __ Not Normal ✓
Explain Remove Parking Lot
Ventilation: Type Exhaust System
Normal ✓ Not Normal __
Explain _____

WEATHER CONDITIONS:

Precipitation __ Cloudy __ Partly Cloudy ✓ Clear __
Wind: Calm __ Light __ Medium ✓ High __ Temperature 60's °F

SAMPLING INFORMATION			INPUT DATA						RESULTS			
Sample I.D. / Job Location	Respirator Type / % Use	Pump Type / I.D.#	Time Start (Hr:Min)	Time Stop (Hr:Min)	Flow Rate (lpm)	Count Data Fibers	Count Data Fields	Duration (Min)	Concentration F/cc	Concentration % of PEL	Work Description/Remarks	
D-29 A-12		MSA C3244	10:37	11:58	1.5	15.5	100	85	.274		NIOSH #588	Over RC 244 bag-out unit (~12 inches)
J-27 A-12		MSA C3245	13:57	15:31	1.5	5.5	100	97	.240		#585	same
							TWA		.256			

Form: UCC/MTLS-OH-82-4/2A

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UCC 001401

ASBESTOS | INDUSTRIAL HYGIENE SAMPLE SUMMARY

IDENTIFICATION

Plant: King City I.D.#: 04/1662
Worker Sampled: _____
Soc.Sec.#: _____
Job Description: _____
Sample Type: Personal__ Area ✓
Sampled By: CBG Date: 1/25/83
Counted By: _____ Date: _____

Graticle Field Area: 0.0526 mm² Type: 006

PERMISSIBLE EXPOSURE LIMIT(S)

TWA: _____
Ceiling: _____

BASIS:

MSHA__ OSHA__ STATE__ UCC__
OTHER NIOSH

MSA pump setting 5.0
Scheduled Hours Per Shift: _____

WORKPLACE CONDITIONS:

Operations: Normal__ Not Normal ✓
Explain Beans Cooking oil
Ventilation: Type Exhaust system
Normal ✓ Not Normal__
Explain _____

WEATHER CONDITIONS:

Precipitation__ Cloudy__ Partly Cloudy ✓ Clear__
Wind: Calm__ Light__ Medium ✓ High__ Temperature 60 °F

SAMPLING INFORMATION			INPUT DATA						RESULTS			
Sample I.D. / Job Location	Respirator Type / % Use	Pump Type / I.D.#	Time Start (Hr:Min)	Time Stop (Hr:Min)	Flow Rate (lpm)	Count Data Fibers	Count Data Fields	Duration (Min)	Concentration F/cc	Concentration % of PEL	NIOSH	Work Description/Remarks
D-19 A-5		MSA R&L 6220	13:40	2::	1.5						#1019	Located ~ 16" above Main Cement Auger packer
			Sample	lost	found -							Sample voided due to sample falling off support during test

Form: UCC/MILS-OH-82-4/2A

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UCC 001402

ASBESTOS INDUSTRIAL HYGIENE SAMPLE SUMMARY

IDENTIFICATION

Plant: King City I.D.#: 670662
Worker Sampled: [illegible]
Soc.Sec.#: 572-48-2656
Job Description: 21½" Auger (Main Limit)
Sample Type: Personal ✓ Area ___
Sampled By: [illegible] Date: 1/26/83
Counted By: JB Date: 3/14/83

Graticle Field Area: .0038 mm² Type: WB

PERMISSIBLE EXPOSURE LIMIT(S)

TWA: ___
Ceiling: ___

BASIS:

MSHA ___ OSHA ___ STATE ___ UCC ___
OTHER Nuisance

Scheduled Hours Per Shift: ___

WORKPLACE CONDITIONS:

Operations: Normal ___ Not Normal ✓
Explain Done by personnel
Ventilation: Type Exhaust System
Normal ___ Not Normal ✓
Explain *

WEATHER CONDITIONS:

Precipitation ✓ Cloudy ___ Partly Cloudy ✓ Clear ___
Wind: Calm ___ Light ___ Medium ✓ High ✓ Temperature 60's °F

SAMPLING INFORMATION			INPUT DATA						RESULTS		
Sample I.D. / Job Location	Respirator Type / % Use	Pump Type / I.D.#	Time Start (Hr:Min)	Time Stop (Hr:Min)	Flow Rate (lpm)	Count Data Fibers	Count Data Fields	Duration (Min)	Concentration F/cc	Concentration % of PEL	Work Description/Remarks
T-36		Gilian T3429	8:05	10:00	1.5	106	50	117	2.765		Nuisance
L-1											#846 Rigging 56-65-5 (Auger Packer)
K-41		Gilian T3429	12:56	15:07	1.5	1255	100	131	1.437		#914 Same
L-1							TWA		2.058		

* Ventilation duct for broken bag disposal unit in main room was plugged second shift & unit work properly. Filters have been inspected on 1/25/83 as well.

Form UCC/MTIS-011-82-4/2A

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ASBESTOS INDUSTRIAL HYGIENE SAMPLE SUMMARY

PERMISSIBLE EXPOSURE LIMIT(S)

UCC 001403

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ASBESTOS | INDUSTRIAL HYGIENE SAMPLE SUMMARY

IDENTIFICATION

Plant: King City I.D.#: C4R1062
Worker Sampled: _____
Soc.Sec.#: _____
Job Description: _____
Sample Type: Personal ___ Area ✓
Sampled By: [illegible] Date: 4/26/83
Counted By: [illegible] Date: 5/14/83

Graticle Field Area: .1038 mm² Type: WB

PERMISSIBLE EXPOSURE LIMIT(S)

TWA: _____
Ceilings: _____

BASIS:

MSHA ___ OSHA ___ STATE ___ UCC ___
OTHER NIOSH

Scheduled Hours Per Shift: _____

WORKPLACE CONDITIONS:

Operations: Normal ___ Not Normal ✓
Explain Given by Russell
Ventilation: Type Exhaust system
Normal ___ Not Normal ✓
Explain [illegible]

WEATHER CONDITIONS:

Precipitation ✓ Cloudy ___ Partly Cloudy ✓ Clear ___
Winds: Calm ___ Light ___ Medium ✓ High ___ Temperature 60°F

SAMPLING INFORMATION					INPUT DATA					RESULTS		
Sample I.D. / Job Location	Respirator Type / % Use	Pump Type / I.D.#	Time Start (Hr:Min)	Time Stop (Hr:Min)	Flow Rate (lpm)	Count Data Fibers	Count Data Fields	Duration (Min)	Concentration F/cc	Concentration % of PEL	NIOSH Work Description/Remarks
D-65 E-142		Gilian T3376	7:41	9:55	1.5	52.5	100	137	.575		#592 & 594 Clear Main Cogging work
L-24 A-142		Gilian T3376	12:42	15:10	1.5	35.5	100	148	.360		#592 & 594 same
							TWA		.463		duct closed yesterday last couple minutes. 15:05 - 15:08 closing over bagging of broken bag disposal air duct.

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UCC 001404

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ASBESTOS | INDUSTRIAL HYGIENE SAMPLE SUMMARY

UCC 001405

IDENTIFICATION

Plant: Ivory City I.D.#: 07-1062
Worker Sampled: _____
Soc. Sec. #: _____
Job Description: _____
Sample Type: Personal ___ Area ✓
Sampled By: CR Date: 1/26/23
Counted By: JS Date: 3/14/23

Graticle Field Area: 0.126 mm² Type: WE

PERMISSIBLE EXPOSURE LIMIT(S)

TWA: _____
Ceiling: _____

BASIS:

MSHA ___ OSHA ___ STATE ___ UCC ___
OTHER NIOSH

MSA pump setting 5.0

Scheduled Hours Per Shift: _____

WORKPLACE CONDITIONS:

Operations: Normal ___ Not Normal ✓
Explain see page 2
Ventilation: Type Exhaust system
Normal ___ Not Normal ✓
Explain see page 2

WEATHER CONDITIONS:

Precipitation ✓ Cloudy ___ Partly Cloudy ✓ Clear ___
Winds: Calm ___ Light ___ Medium ✓ High ___ Temperature 60 °F

SAMPLING INFORMATION					INPUT DATA					RESULTS			
Sample I.D. / Job Location	Respirator Type / % Use	Pump Type / I.D.#	Time Start (Hr:Min)	Time Stop (Hr:Min)	Flow Rate (lpm)	Count Data Fibers	Count Data Fields	Duration (Min)	Concentration F/cc	Concentration % of PEL	NIOSH	Work Description/Remarks
J-52 A1		MSA RF2-6220	7:46	9:52	1.5	78	100	132	.986		#912	Class room cement Hazard packet
K-32 A2		MSA RF2-6220	12:43	15:10	1.5	124.5	100	147	1.270		#956	Same
							TWA		1.088			check closed general Ref a
												last ten minutes, 15:05 - 15:15 -
												dressing area by capacity of bucket
												by physician's air check

Form: UCC/MTIS-011-82-4/2A

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ASBESTOS | INDUSTRIAL HYGIENE SAMPLE SUMMARY

IDENTIFICATION

Plant: King City I.D.#: 040106
Worker Sampled: _____
Soc.Sec.#: _____
Job Description: _____
Sample Type: Personal __ Area ✓
Sampled By: CG Date: 1/26/82
Counted By: JL Date: 3/14/83

Graticle Field Area: 1003.6 mm² Type: WL

PERMISSIBLE EXPOSURE LIMIT(S)

TWA: _____
Ceiling: _____

BASIS:

MSHA __ OSHA __ STATE __ UCC __
OTHER NIOSH

Scheduled Hours Per Shift: _____

WORKPLACE CONDITIONS:

Operations: Normal __ Not Normal ✓
Explain ~~same~~ other than typical
Ventilation: Type Exhaust
Normal __ Not Normal ✓
Explain see page 2

WEATHER CONDITIONS:

Precipitation ✓ Cloudy __ Partly Cloudy __ Clear __
Wind: Calm __ Light __ Medium ✓ High __ Temperature 60's °F

SAMPLING INFORMATION					INPUT DATA					RESULTS		
Sample I.D. / Job Location	Respirator Type / % Use	Pump Type / I.D.#	Time Start (Hr:Min)	Time Stop (Hr:Min)	Flow Rate (lpm)	Count Data Fibers	Count Data Fields	Duration (Min)	Concentration F/cc	Concentration % of PEL	Work Description/Remarks
											NIOSH
D-50 A-2		Gilian 7 2272	7:43	9:56	1.5	33.5	100	133	.378		#921 Area Grey shop
E-36 A-2		Gilian E2175	12:44	15:06	1.5	16.5	100	142	.172		#923
							TWA		.271		short chrysotile removal task sampled 9 minutes due to unclogging of 6 hour day disposal air check.

Format UCC/MTLS-OH 82-4/2A

UCC 001406

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ASBESTOS | INDUSTRIAL HYGIENE SAMPLE SUMMARY

UCC 001407

IDENTIFICATION

Plant: Kan C.C. I.D. #: 67668
Worker Sampled: Jack Gracinda
Soc.Sec.#: 555-42-2631
Job Description: R26 244 Bagger
Sample Type: Personal ___ Area ✓
Sampled By: CH Date: 1/26/83
Counted By: JS Date: 3/1/83

Graticle Field Area: .0026 mm² Type: WB

PERMISSIBLE EXPOSURE LIMIT(S)

TWA: ___
Ceiling: ___

BASIS:

MSHA ___ OSHA ___ STATE ___ UCC ___
OTHER NIOSH

Scheduled Hours Per Shift: ___

WORKPLACE CONDITIONS:

Operations: Normal ___ Not Normal ✓
Explain Repaired Bagger
Ventilation: Type Exhaust systems
Normal ✓ Not Normal ___
Explain some leaking (repaired)

WEATHER CONDITIONS:

Precipitation ~~Cloudy~~ ___ Partly Cloudy ___ Clear ✓
Wind: Calm ___ Light ___ Medium ~~High~~ ___ Temperature 60 °F

SAMPLING INFORMATION			INPUT DATA						RESULTS			
Sample I.D. / Job Location	Respirator Type / % Use	Pump Type / I.D. #	Time Start (Hr:Min)	Time Stop (Hr:Min)	Flow Rate (lpm)	Count Data Fibers	Count Data Fields	Duration (Min)	Concentration F/cc	Concentration % of PEL	Work Description/Remarks
H-14 P-3		Gilian 7-3427	8:05	9:56	1.5	135	100	111	1.824		NIOSH #966 R26 244 bagger
											Bagger entered bagging unit for 5 minutes.
I-12 P-3		Gilian 7-3427	12:32	5:21	1.5	91.5	100	129	1.064		#946 Same — same
								TWA	1.412		light dust noticed in general area. Same
											conditions. Followed up with
											B Clancy

Form UCC/MTLS-011-82-4/2A

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ASBESTOS | INDUSTRIAL HYGIENE SAMPLE SUMMARY

IDENTIFICATION

Plants: King City I.D.#: 04-1062
Worker Sampled: _____
Soc.Sec.#: _____
Job Description: _____
Sample Type: Personal ___ Area ✓
Sampled By: CG Date: 4/26/83
Counted By: JS Date: 3/14/83

Graticle Field Area: .0328 mm² Type: WE

PERMISSIBLE EXPOSURE LIMIT(S)

TWA: _____
Ceiling: _____

BASIS:

MSHA ___ OSHA ___ STATE ___ UCC ___
OTHER NIOSH

Scheduled Hours Per Shift: _____

WORKPLACE CONDITIONS:

Operations: Normal ___ Not Normal ✓
Explain by heavy Rain
Ventilation: Type Exhaust with Systems
Normal ___ Not Normal ___
Explain see page 24

WEATHER CONDITIONS:

Precipitation ✓ Cloudy ___ Partly Cloudy ___ Clear ___
Wind: Calm ___ Light ___ Medium ✓ High ___ Temperature ___ °F

UCC 001408

SAMPLING INFORMATION			INPUT DATA						RESULTS			
Sample I.D. / Job Location	Respirator Type / % Use	Pump Type / I.D.#	Time Start (Hr:Min)	Time Stop (Hr:Min)	Flow Rate (lpm)	Count Data Fibers	Count Data Fields	Duration (Min)	Concentration F/cc	Concentration % of PEL	NIOSH	Work Description/Remarks
K31 H-15		Gilian L3122	8:00	9:56	1.5	12	100	116	.155		4644	Near broken log beyond unit
C21 H-15		Gilian L3122	12:49	15:02	1.5	25	100	133	.282		4722	Smoke - some light dusting in area
							TWA		.223			

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ASBESTOS INDUSTRIAL HYGIENE SAMPLE SUMMARY

UCC 001409

IDENTIFICATION

Plant: Tony City I.D.#: 6 Yo 1062
Worker Sampled:
Soc.Sec.#:
Job Description:
Sample Type: Personal__ Area ✓
Sampled By: [illegible] Date: 3/14/83
Counted By: [illegible] Date: 3/14/83
Graticle Field Area: .0328 mm² Type: WB

PERMISSIBLE EXPOSURE LIMIT(S)

TWA:
Ceilings:

BASIS:

MSHA__ OSHA__ STATE__ UCC__
OTHER NIOSH

MM Pumps Setting 4.0

Scheduled Hours Per Shift:

WORKPLACE CONDITIONS:

Operations: Normal__ Not Normal ✓
Explain by previous Blasting
Ventilation: Type Exhaust System
Normal__ Not Normal ✓
Explain [illegible]

WEATHER CONDITIONS:

Precipitation 1 Cloudy__ Partly Cloudy ✓ Clear__
Winds: Calm__ Light__ Medium ✓ High__ Temperature 60's °F

SAMPLING INFORMATION			INPUT DATA						RESULTS			
Sample I.D. / Job Location	Respirator Type / % Use	Pump Type / I.D.#	Time Start (Hr:Min)	Time Stop (Hr:Min)	Flow Rate (lpm)	Count Data Fibers	Count Data Fields	Duration (Min)	Concentration F/cc	Concentration % of PEL	NIOSH	Work Description/Remarks
I 25 A 12		NIOSH G7249	5:01	9:36	1.5	8	100	117	.103		#550	Over EG 2 1/4 bagging unit
I 25 A 12		NIOSH G7249	12:50	15:03	1.5	5.5	100	133	.062		#536	Same
							TWA		.081			

Form UCC/MTIS-OH-82-4/2A

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UCC 001410

ASBESTOS | INDUSTRIAL HYGIENE SAMPLE SUMMARY

IDENTIFICATION

Plant: King City I.D.#: 0761062
Worker Sampled: Lee Timms
Soc.Sec.#: 572-48-2656
Job Description: Oil Dryer (Main Grinder)
Sample Type: Personal ✓ Area ___
Sampled By: [illegible] Date: 1/22/83
Counted By: [illegible] Date: 3/15/83

Graticle Field Area: .0058 mm² Type: WHS

PERMISSIBLE EXPOSURE LIMIT(S)

TWA: ___
Ceiling: ___

BASIS:

MSHA ___ OSHA ___ STATE ___ UCC ___
OTHER Recist

Scheduled Hours Per Shift: ___

WORKPLACE CONDITIONS:

Operations: Normal ___ Not Normal ✓
Explain Dryer Bypassed
Ventilation: Type Exhaust System
Normal ✓ Not Normal ___
Explain ___

WEATHER CONDITIONS:

Precipitation ✓ Cloudy ___ Partly Cloudy ___ Clear ___
Wind: Calm ___ Light ___ Medium ___ High ✓ Temperature 21 °F

SAMPLING INFORMATION			INPUT DATA						RESULTS			
Sample I.D. / Job Location	Respirator Type / % Use	Pump Type / I.D.#	Time Start (Hr:Min)	Time Stop (Hr:Min)	Flow Rate (lpm)	Count Data Fibers	Count Data Fields	Duration (Min)	Concentration F/cc	Concentration % of PEL	Work Description/Remarks
E.65 P1		GilianT3424	8:41	9:57	1.5	103	80	118	1.637		Night Work Dusting with Air-pulse Gun
A.16 P1		GilianT3424	13:15	15:19	1.5	87	110	124	1.052		Same
							TU	A	1.337		

Form: UCC/MTLS-OH-82-4/2A

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ASBESTOS | INDUSTRIAL HYGIENE SAMPLE SUMMARY

UCC 001411

IDENTIFICATION

Plant: Kenilworth I.D.#: 6401662
Worker Sampled: Warehouse Segregation
Soc.Sec.#: 544-44-9558
Job Description: C-3S-Pallet Types (Main Crawl)
Sample Type: Personal ✓ Area ___
Sampled By: C.E. Date: 1/22/83
Counted By: JS Date: 3/16/83

Graticle Field Area: .785 mm^2 Type: UICC

PERMISSIBLE EXPOSURE LIMIT(S)

TWA: ___
Ceiling: ___
BASIS:
MSHA ___ OSHA ___ STATE ___ UCC ___
OTHER NIOSH

Scheduled Hours Per Shift: ___

WORKPLACE CONDITIONS:

Operations: Normal ___ Not Normal ✓
Explain Plant Operational
Ventilation: Type Exhaust & Sys. Conv.
Normal ___ Not Normal ___
Explain ___

WEATHER CONDITIONS:

Precipitation ___ Cloudy ___ Partly Cloudy ___ Clear ___
Wind: Calm ___ Light ___ Medium ___ High ___ Temperature ___ °F

SAMPLING INFORMATION			INPUT DATA						RESULTS			
Sample I.D. / Job Location	Respirator Type / % Use	Pump Type / I.D.#	Time Start (Hr:Min)	Time Stop (Hr:Min)	Flow Rate (lpm)	Count Data Fibers	Count Data Fields	Duration (Min)	Concentration F/cc	Concentration % of PEL	NIOSH	Work Description/Remarks
C-30 / 12		Gilian 7-3173	8:02	10:01	1.5	34	100	119	.429		#444	Main Crawl Pallet Types
K-45 / 12		Gilian 7-3177	13:18	15:22	1.5	76	100	122	.934		#458	Same
							TWA		.685			

Form: UCC/MTIS-OH-82-4/2A

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ASBESTOS | INDUSTRIAL HYGIENE SAMPLE SUMMARY

UCC 001412

IDENTIFICATION

Plant: Kenny City I.D.#: 041062
Worker Sampled: _____
Soc.Sec.#: _____
Job Description: _____
Sample Type: Personal __ Area ✓
Sampled By: CC Date: 1/27/83
Counted By: JS Date: 3/16/83

Graticle Field Area: .0038 mm² Type: WB

PERMISSIBLE EXPOSURE LIMIT(S)

TWA: _____
Ceiling: _____

BASIS:

MSHA __ OSHA __ STATE __ UCC __
OTHER NIOSH

Scheduled Hours Per Shift: _____

WORKPLACE CONDITIONS:

Operations: Normal __ Not Normal ✓
Explain Items by person-1
Ventilation: Type _____
Normal ✓ Not Normal __
Explain _____

WEATHER CONDITIONS:

Precipitation ✓ Cloudy __ Partly Cloudy __ Clear __
Wind: Calm __ Light __ Medium __ High ✓ Temperature 55 °F

SAMPLING INFORMATION			INPUT DATA						RESULTS			
Sample I.D. / Job Location	Respirator Type / % Use	Pump Type / I.D.#	Time Start (Hr:Min)	Time Stop (Hr:Min)	Flow Rate (lpm)	Count Data Fibers	Count Data Fields	Duration (Min)	Concentration F/cc	Concentration % of PEL	Work Description/Remarks
A-16 / A-1 ✓		Gilian L3376	8:03	10:10	1.5	3	100	127	.035		NIOSH 927 & 938 Open mine bagging unit
J-67 / A-1 ✓		Gilian L3376	13:16	15:21	1.5	26.5	100	125	.918		1003 & 1012 same
							TWA		.473		

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ASBESTOS | INDUSTRIAL HYGIENE SAMPLE SUMMARY

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IDENTIFICATION

Plant: Long City I.D.#: 0701062

Worker Sampled: _____

Soc.Sec.#: _____

Job Description: _____

Sample Type: Personal__ Area ✓

Sampled By: CL Date: 1/12/83

Counted By: JS Date: 3/16/83

Graticle Field Area: .0388 mm² Type: WB

PERMISSIBLE EXPOSURE LIMIT(S)

TWA: _____

Ceiling: _____

BASIS:

MSHA__ OSHA__ STATE__ UCC__

OTHER NIOSH

NIOSH Pump Setting 5.0

Scheduled Hours Per Shift: _____

WORKPLACE CONDITIONS:

Operations: Normal__ Not Normal ✓

Explain Glass Polishing

Ventilation: Type _____

Normal ✓ Not Normal__

Explain _____

WEATHER CONDITIONS:

Precipitation ✓ Cloudy__ Partly Cloudy__ Clear__

Wind: Calm__ Light__ Medium__ High ✓ Temperature 55°F

SAMPLING INFORMATION			INPUT DATA						RESULTS			
Sample I.D. / Job Location	Respirator Type / % Use	Pump Type / I.D.#	Time Start (Hr:Min)	Time Stop (Hr:Min)	Flow Rate (lpm)	Count Data Fibers	Count Data Fields	Duration (Min)	Concentration F/cc	Concentration % of PEL	Work Description/Remarks
C-22 A-3		MSA CF2-6820	8 03	10 08	1.5	7.5	100	125	.093		#643 Main Control Area Hydraulics
566 A-5		MSA CF2-1822	13 16	15 21	1.5	102.5	100	125	1.230		#1013 Janitor
							TWA		.660		

Form: UCC/MTLS-OH-82-4/2A

UCC 001413

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UCC 001414

ASBESTOS | INDUSTRIAL HYGIENE SAMPLE SUMMARY

IDENTIFICATION

Plant: Kenilworth I.D.#: [illegible]
Worker Sampled: _____
Soc.Sec.#: _____
Job Description: _____
Sample Type: Personal__ Area ✓
Sampled By: CC Date: 1/27/83
Counted By: JB Date: 3/16/83

Graticle Field Area: .0258 mm² Type: WB

PERMISSIBLE EXPOSURE LIMIT(S)

TWA: _____
Ceiling: _____

BASIS:

MSHA__ OSHA__ STATE__ UCC__
OTHER NIOSH

Scheduled Hours Per Shift: _____

WORKPLACE CONDITIONS:

Operations: Normal__ Not Normal ✓
Explain Fan by panel
Ventilation: Type _____
Normal ✓ Not Normal__
Explain _____

WEATHER CONDITIONS:

Precipitation ✓ Cloudy__ Partly Cloudy__ Clear__
Wind: Calm__ Light__ Medium__ High ✓ Temperature 10 °F

SAMPLING INFORMATION			INPUT DATA					RESULTS			
Sample I.D. / Job Location	Respirator Type / % Use	Pump Type / I.D.#	Time Start (Hr:Min)	Time Stop (Hr:Min)	Flow Rate (lpm)	Count Data Fibers	Count Data Fields	Duration (Min)	Concentration F/cc	Concentration % of PEL	Work Description/Remarks
K-3 A-7		Gilian 2225	8:05	14:06	1.5	35	100	121	.043		NIOSH # 1:15 Over main entrance by Kronkyte
D 26 A 7		Gilian 2225	13:18	15:22	1.5	41	100	124	.496		NIOSH # 995 Same
							TWA		.272		

Form: UCC/MTIS-011-02-4/2A

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ASBESTOS | INDUSTRIAL HYGIENE SAMPLE SUMMARY

IDENTIFICATION

Plant: King City I.D.#: 040062
Worker Sampled: John Coulombe
Soc.Sec.#: 558-47-7821
Job Description: RC-244 bagger
Sample Type: Personal ✓ Area ___
Sampled By: CBO Date: 1/27/83
Counted By: JS Date: 3/14/83

Graticle Field Area: .0226 mm² Type: WA

PERMISSIBLE EXPOSURE LIMIT(S)

TWA: _____
Ceiling: _____

BASIS:

MSHA ___ OSHA ___ STATE ___ UCC ___
OTHER NIOSH

Scheduled Hours Per Shift: _____

WORKPLACE CONDITIONS:

Operations: Normal ___ Not Normal ✓
Explain bagger unit not working properly
Ventilation: Type Exhaust
Normal ___ Not Normal ✓
Explain bagger unit not working check

WEATHER CONDITIONS:

Precipitation ✓ Cloudy ___ Partly Cloudy ___ Clear ___
Winds: Calm ___ Light ___ Medium ___ High ✓ Temperature 53 °F

SAMPLING INFORMATION			INPUT DATA						RESULTS			
Sample I.D. / Job Location	Respirator Type / % Use	Pump Type / I.D.#	Time Start (Hr:Min)	Time Stop (Hr:Min)	Flow Rate (lpm)	Count Data Fibers	Count Data Fields	Duration (Min)	Concentration F/cc	Concentration % of PEL	NIOSH	Work Description/Remarks
D-40 C3			8:11	8:14	1.5						Voided	Replaced bagger unit motor/trouble
" Y			9:31	10:1	1.5	112	100	33	5.071			
J-72 C-3			13:28	15:14	1.5	96	100	106	1.358		Voided	bagging RC-244 asbestos
							TWA		2.244			

Form: UCC/MTI S-OH-82-4/2A

UCC 001415

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UCC 001416

ASBESTOS | INDUSTRIAL HYGIENE SAMPLE SUMMARY

IDENTIFICATION

Plant: Kan City I.D.#: 040062
Worker Sampled: _____
Soc.Sec.#: _____
Job Description: _____
Sample Type: Personal__ Area ✓
Sampled By: CS Date: 1/27/83
Counted By: JB Date: 3/16/83

Graticle Field Area: 1003E mm² Type: WB

PERMISSIBLE EXPOSURE LIMIT(S)

TWA: _____
Ceiling: _____

BASIS:

MSHA__ OSHA__ STATE__ UCC__
OTHER NIOSH

Scheduled Hours Per Shift: _____

WORKPLACE CONDITIONS:

Operations: Normal__ Not Normal ✓
Explain Bypass unit at two buildings
Ventilation: Type Exhaust
Normal__ Not Normal ✓
Explain Bypass unit leaking dust

WEATHER CONDITIONS:

Precipitation ✓ Cloudy__ Partly Cloudy__ Clear__
Wind: Calm__ Light__ Medium__ High ✓ Temperature 53 °F

SAMPLING INFORMATION			INPUT DATA					RESULTS			
Sample I.D. / Job Location	Respirator Type / % Use	Pump Type / I.D.#	Time Start (Hr:Min)	Time Stop (Hr:Min)	Flow Rate (lpm)	Count Data Fibers	Count Data Fields	Duration (Min)	Concentration F/cc	Concentration % of PEL	Work Description/Remarks
B-26 A-15		GK 2227	8:02	9:56	1.5	50.5	100	114	.664		VOIDED Can by Capital - bypassed some asbestos during mixing
C-26 A-16		GK 2277	13:16	15:13	1.5	32	100	117	.410		1052 Bypassing Room 4
							TWA		.535		Note - UCC samples filed on floor at 1715

Form UCC/MTLS-ONH 82-4/2A

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ASBESTOS | INDUSTRIAL HYGIENE SAMPLE SUMMARY

UCC 001417

IDENTIFICATION

Plant: King City I.D.#: 04-5166

Worker Sampled: _____

Soc.Sec.#: _____

Job Description: _____

Sample Type: Personal ___ Area ✓

Sampled By: CJE Date: 1/27/83

Counted By: JB Date: 3/16/83

Graticle Field Area: .0138 mm² Type: WB

PERMISSIBLE EXPOSURE LIMIT(S)

TWA: _____

Ceiling: _____

BASIS:

MSHA ___ OSHA ___ STATE ___ UCC ___

OTHER MSHA

MSHA Rmvl Sctkg 4.0

Scheduled Hours Per Shift: _____

WORKPLACE CONDITIONS:

Operations: Normal ___ Not Normal ✓

Explain Bagger unit not working

Ventilation: Type Exhaust System

Normal ___ Not Normal ✓

Explain Bagger unit leaking, dust

WEATHER CONDITIONS:

Precipitation ✓ Cloudy ___ Partly Cloudy ___ Clear ___

Wind: Calm ___ Light ___ Medium ___ High ___ Temperature 21 °F

SAMPLING INFORMATION			INPUT DATA						RESULTS			
Sample I.D. / Job Location	Respirator Type / % Use	Pump Type / I.D.#	Time Start (Hr:Min)	Time Stop (Hr:Min)	Flow Rate (lpm)	Count Data Fibers	Count Data Fields	Duration (Min)	Concentration F/cc	Concentration % of PEL	Work Description/Remarks
B-52		AISI	8:02	8:14	1.5	405	100	11	.5523		Area RC-244 bagger unit
A-12		02449									(unit being repaired)
L-55		MSA-	12:16	15:14	1.5	4	100	178	.051		Bagging RC 244
A-12		01249					TWA		.518		

Form: UCC/MTLS-011-82-4/2A

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