PLAINTIFF'S EXHIBIT
UC-1109

INDUSTRIAL HYGIENE DEPARTMENT
ASBESTOS DUST STUDY

Department INSULATORS Bldg. 121 Date 8-21-72 Time 10:30 AM

Sampled By: PERRY Analyzed By: PERRY Method: 58C-29X4-R1

General Conditions: CLEANING UP THE DEBRIS FROM A KAYLO TEAR OUT JOB ON A VESSEL INSIDE BLDG 121 IN THE NORTH EAST CORNER OF THE GROUND FLOOR. MATERIAL IS SWEPT INTO PILES AND SHOVELED INTO PLASTIC BAGS HELD OPEN BY TWO MEN. THERE IS A CONSIDERABLE AMOUNT OF DUST INVOLVED IN THIS CLEAN UP METHOD.

FIBER COUNT (Fibers > 5μ in Length)

	Slide 1		Slide 2	
1	3	11 3	1 2	11 0
2	0	12 0	2 3	12 0
3	5	13 1	3 1	13 3
4	5	14 5	4 4	14 5
5	1	15 2	5 3	15 0
6	2	16 1	6 3	16 2
7	7	17 3	7 2	17 2
8	2	18 3	8 3	18 1
9	1	19 1	9 0	19 4
10	2	20 3	10 1	20 1
Total	48	Avg. 2.4	Total 40	Avg. 2.0

CALCULATIONS

SAMPLE VOLUME: 12 Min. @ 1.8 LPM = 21.6 LITERS

$$\frac{(\text{Avg.Fiber Count}-\text{Avg.Blank Count})(\text{Total Filter Area})}{(\text{Counting Area})(\text{Vol.Air-Liters})(1000)} = \text{Concentration, Fibers per Milliliter} > 5\mu$$

1. $\frac{(2.4 - 0)(855)}{(0.01496)(21.6)(1000)} =$ 6.35 Fibers per Milliliter > 5μ

avg 6 FIBERS

2. $\frac{(2.0 - 0)(855)}{(0.01496)(21.6)(1000)} =$ 5.29 Fibers per Milliliter > 5μ

Special Conditions:

Remarks: INSULATOR — JACK ROBINSON

UCTC 09138

INDUSTRIAL HYGIENE DEPARTMENT
ASBESTOS DUST STUDY

Department INSULATORS Bldg. 121 Date 8-21-72 Time 10 15/AM

Sampled By: PERRY Analyzed By: PERRY Method: 38C-29X9-R1

General Conditions: TEARING OUT AND CLEANING UP KAYLO INSULATION.

INSULATOR - JACK ROBINSON

FIBER COUNT (Fibers > 5μ in Length)

Slide 1				Slide 2			
1	5	11	4	1	2	11	0
2	0	12	4	2	7	12	2
3	2	13	5	3	5	13	6
4	4	14	7	4	0	14	5
5	2	15	5	5	5	15	6
6	7	16	3	6	3	16	1
7	5	17	3	7	1	17	3
8	4	18	4	8	2	18	3
9	3	19	5	9	1	19	3
10	2	20	2	10	3	20	2
Total	76	Avg.	3.8	Total	60	Avg.	3

CALCULATIONS

SAMPLE VOLUME: 14 Min. @ 1.8 LPM = 25.2 LITERS

$$\frac{(\text{Avg.Fiber Count}-\text{Avg.Blank Count})(\text{Total Filter Area})}{(\text{Counting Area})(\text{Vol.Air-Liters})(1000)} = \text{Concentration, Fibers per Milliliter} > 5\mu$$

1. $\frac{(3.8 - 0)(855)}{(0.01496)(25.2)(1000)} =$ 8.62 Fibers per Milliliter > 5μ

avg 8 FIBERS

2. $\frac{(3.0 - 0)(855)}{(0.01496)(25.2)(1000)} =$ 6.80 Fibers per Milliliter > 5μ

Special Conditions:

Remarks:

UCTC 09139

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INDUSTRIAL HYGIENE DEPARTMENT
ASBESTOS DUST STUDY

Department INSULATORS Bldg. 126 Date 8-21-72 Time 10 30/AM

Samoled By: PERRY Analyzed By: PERRY Method: 38C-29X4-R1

General Conditions: TEARING OUT AND CLEANING UP KAYLO INSULATION

INSULATOR — W. E. WILLIAMS

FIBER COUNT (Fibers > 5μ in Length)

	Slide 1		Slide 2	
1	4	11 2	1 4	11 2
2	3	12 4	2 1	12 12
3	5	13 7	3 0	13 3
4	5	14 6	4 2	14 0
5	2	15 1	5 8	15 3
6	1	16 3	6 5	16 3
7	3	17 3	7 8	17 3
8	1	18 4	8 7	18 5
9	1	19 6	9 4	19 1
10	2	20 5	10 3	20 7
Total	68	Avg. 3.4	Total 81	Avg. 4.05

CALCULATIONS

SAMPLE VOLUME: 10 Min. @ 1.8 LPM = 18 LITERS

$$\frac{(\text{Avg.Fiber Count}-\text{Avg.Blank Count})(\text{Total Filter Area})}{(\text{Counting Area})(\text{Vol.Air-Liters})(1000)} = \text{Concentration, Fibers per Milliliter} > 5\mu$$

1. $\frac{(3.4 - 0)(855)}{(0.01496)(18)(1000)} =$ 10.79 Fibers per Milliliter > 5μ

avg = 12 FIBERS

2. $\frac{(4.05 - 0)(855)}{(0.01496)(18)(1000)} =$ 12.86 Fibers per Milliliter > 5μ

Special Conditions:

Remarks:

UCTC 09140

INDUSTRIAL HYGIENE DEPARTMENT
ASBESTOS DUST STUDY

Department INSULATORS Bldg. 121 Date 8-21-72 Time 1091 AM

Sampled By: PERRY Analyzed By: PERRY Method: 38C-29X4-R1

General Conditions: CLEANUP OF DEBRIS FROM INSULATION TEAR OUT NORTHEAST CORNER FIRST FLOOR OF BLDG 121

INSULATOR : W.E. WILLIAMS

FIBER COUNT (Fibers > 5μ in Length)

	Slide 1		Slide 2	
1	4	11 6	1 4	11 7
2	3	12 5	2 8	12 4
3	8	13 6	3 5	13 12
4	2	14 5	4 4	14 9
5	11	15 3	5 8	15 4
6	2	16 4	6 5	16 5
7	11	17 6	7 3	17 10
8	4	18 6	8 7	18 4
9	1	19 0	9 5	19 12
10	3	20 4	10 5	20 9
Total	94	Avg. 4.7	Total 130	Avg. 6.5

CALCULATIONS

SAMPLE VOLUME: 17 Min. @ 1.8 LPM = 30.6 LITERS

$$\frac{(\text{Avg.Fiber Count}-\text{Avg.Blank Count})(\text{Total Filter Area})}{(\text{Counting Area})(\text{Vol.Air-Liters})(1000)} = \text{Concentration, Fibers per Milliliter} > 5\mu$$

1. $\frac{(4.7 - 0)(855)}{(0.01496)(30.6)(1000)} = 8.78$ Fibers per Milliliter > 5μ

avg. - 10 FIBERS

2. $\frac{(6.5 - 0)(855)}{(0.01496)(30.6)(1000)} = 12.14$ Fibers per Milliliter > 5μ

Special Conditions:

Remarks:

UCTC 09141

INDUSTRIAL HYGIENE DEPARTMENT
ASBESTOS DUST STUDY

Department INSULATORS Bldg. 110 Date 8-18-72 Time 10 15/AM 10 45/AM

Sampled By: PERRY Analyzed By: PERRY Method: 38C-29X4-R1

General Conditions: KAYLO INSULATION BEING REMOVED FROM THE COLUMN SHELL. CARE IS EXERCISED IN REMOVAL TO KEEP FROM DAMAGING THE KAYLO BLOCKS. STRONG SE WINDS 10-12MPH

INSULATOR - R.F. ROBERTS

FIBER COUNT (Fibers > 5μ in Length)

Slide 1	SAMPLE #1 @ 10 15/AM		Slide 2	SAMPLE #2 @ 10 45/AM	
1	1	11 0	1	1	11 0
2	2	12 1	2	0	12 0
3	1	13 0	3	3	13 1
4	0	14 2	4	1	14 0
5	1	15 1	5	0	15 0
6	0	16 1	6	1	16 1
7	4	17 0	7	2	17 0
8	1	18 0	8	1	18 1
9	0	19 1	9	0	19 0
10	0	20 1	10	0	20 0
Total	17	Avg. 0.85	Total	12	Avg. 0.60

CALCULATIONS

SAMPLE VOLUME: 15 Min. @ 1.6 LPM = 24 LITERS

$$\frac{(\text{Avg.Fiber Count} - \text{Avg.Blank Count})(\text{Total Filter Area})}{(\text{Counting Area})(\text{Vol.Air-Liters})(1000)} = \text{Concentration, Fibers per Milliliter} > 5\mu$$

1. $\frac{(0.85 - 0)(855)}{(0.01496)(24)(1000)} = 2.0$ Fibers per Milliliter > 5μ

2. $\frac{(0.60 - 0)(855)}{(0.01496)(24)(1000)} = 1.4$ Fibers per Milliliter > 5μ

Special Conditions:

Remarks: SLIDE 1 + 2 REPRESENT TWO IDENTICAL SAMPLES ON THE SAME INSULATOR. CONDITIONS WERE EXACTLY THE SAME FOR BOTH SAMPLES.

UCTC 09142