TELEPHONE. AREA CODE 617
891-4517

PROFESSIONAL SAFETY CONSULTANTS
INCORPORATED
235 BEAR HILL RD. · WALTHAM MASS. 02154



May 10, 1974

Mr. Peter F. Kozlowski
Plant Manager
A.W. Chesterton Co.
9 Forbes Road
Woburn, Massachusetts 01801

Re: Air Sampling, 7 May 1974

Dear Peter:

Attached are the results of the air samples taken at your plant on 7 May 1974. Sixteen samples were taken, but two could not be evaluated due to a foreign substance which contaminated the filters during sampling.

During my visit, I noted that the bobbin-making operations in the lattice area should be rearranged to minimize dust generation.

The attached article from a magazine may be of interest to you and Gene Marino.

Yours truly,

H.A. Eschenbach
Industrial Hygienist

HAE:mh

Attachments

Plant Location A. K. CHESTERTON Date of Sampling 7 MAY 74 Type Contaminent Sampled FIBERS

SAMPLING CONDITIONS:	OUTSIDE	INSIDE DRAFT	VISIBLE DUST	HOUSEKEEPING
	Clear	None	None	GOOD
	Cloudy	(Slight)	(Slight)	
	(Rain)	Moderate	Moderate	
	Snow	Excessive	Heavy	

REMARKS * SAMPLES CH9 & CH10 IMPOSSIBLE TO COUNT DUE TO ADDITIONAL SUBSTANCE ON FILTER

SAMPLING DATA & EVALUATION

Pump Type & No.	Flow Rate	Sample No.	Employee	Operation/Area	Pump Off	Pump On	Sampling Time	Operating Volume	Remarks	Lab Evaluation
BENDIX	1.5	CH 1	W. MacHENRY	12" BRAIDERS	1012	0930	42 min	63 Liters		.7
	"	CH 2	W. ROSS	18" "	1015	0932	43	64.5		2.1
	"	CH 3	A. HAYDEN SR	375 "	1019	0934	45	67.5		.3
	"	CH 4	D. GAGLIARDI	WINDERS	1046	1013	32	48		3.0 ✓
	"	CH 5	J. KANE	"	1047	1017	30	45		4.0 ✓
	"	CH 6	MacHENRY	LATTICE	1052	1022	30	45		4.3
	"	CH 7	SEE CH 4	SEE CH 4	1116	1046	30	45		4.6
	"	CH 8	M. PONTI	1500 ROOM	1058	1050	8	12		TRACE
	"	CH 9	W. DEANDRUS	BOBBIN MAKING-MANUAL BOBB.	1130	1100	30	45	*	VOID
	"	CH 10	D. BRECY	SPINDLING (BOBBIN MAKING)	1135	1105	30	45	*	VOID
	"	CH 11	V. CHOUDSTOS	COILING + 12" BRAIDERS	1150	1120	30	45		TRACE
	"	CH 12	A. HAYDEN JR	18" ROUND BRAIDERS	1157	1132	25	37.5		3.9

Sampling By HE

Laboratory Evaluation By HE

Date 10 May 74

Plant Location A. K. CHESTERTON Date of Sampling _____ Type Contaminent Sampled _____

SAMPLING CONDITIONS:

	OUTSIDE	INSIDE DRAFT	VISIBLE DUST	HOUSEKEEPING
	Clear	None	None	
	Cloudy	Slight	Slight	
	Rain	Moderate	Moderate	
	Snow	Excessive	Heavy	

REMARKS _____

SAMPLING DATA & EVALUATION

Pump Type & No.	Flow Rate	Sample No.	Employee	Operation/Area	Pump Off	Pump On	Sampling Time	Operating Volume	Remarks	Lab Evaluation
	1.5	CH 13	W. MacHenry	12" BRAIDERS	1159	1136	23 min	34.5 liters		TRACE
	"	CH 14	R. HAWKES	PRESSING	1227	1152	35	52.5		0.2
	"	CH 15	J. BARRERA	TWISTING	1128	1158	30	45		0.6
	"	CH 16	J. McMANUS	SOAKING & COOKING	1230	1200	30	45		TRACE

Sampling By _____ Laboratory Evaluation By _____

Date ___ ___ ___ ___

AIR SAMPLING - A.W. CHESTERTON CO.

Operation Sampled	Fibers Per Cubic Centimeter Greater Than 5 Microns in Length			
	3/28/73	4/17/73	9/11/73	5/7/74
1500 Room	18.8		0.8, 0.8	Trace
12" Braiders	0.8, 1.1	0.9	0.6, 0.3	0.7, Trace
18" Braiders (Round)	1.9, 2.6	1.5	.5	2.1, 3.9
Cleaner	---	0.8	0.1	---
Lattice	0.9	---	13.3, 3.9	4.3
375 Braider	0.3	---	0.4	0.3
Twisters	0.5	0.9, 0.4	0.2	0.6
Parachute	Trace	---	---	---
Folding	0.6	---	0.2	---
Winding Room	13.2	---	13.5	3.0, 4.3, 4.6
Coiling	---	0.04	---	Trace
Soaping	---	---	0.1	Trace
Pressing	---	---	Trace	0.2

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O.S.HA.

PROFESSIONAL SAFETY CONSULTANTS
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October 21, 1974

Mr. Peter F. Kozlowski
Plant Manager
A.W. Chesterton Co.
9 Forbes Road
Woburn, Massachusetts 01801

Subject: Air Sampling, October 11, 1974

Dear Peter:

Attached are the results of the laboratory evaluations of the latest air sampling for fibers. The results are, with one exception, well within the 1976 OSHA requirements. That exception is the Winding Room where you had achieved significant fiber count reductions in May of this year. It appears that a review of work practices as well as ventilation may be necessary to bring the levels down again.

Also attached are a few Sound Level Meter determinations which may be of interest to you.

Very truly yours,

Harry Eschenbach (mgs)

H.A. Eschenbach

HAE:mgs

Attachments

AREA	dBA	REMARKS
Square Braiders	92-95	92 at teflon unwinding area
18" Braiders	94-98	98 at open hemp braider
Lattice Braiders	90-91	
Winders	85	
375	84	
Round	92-93	
Twisters	82	

Plant Location A. K. CHESTERTON Date of Sampling 11 OCT 74 Type Contaminent Sampled FIBERS

SAMPLING CONDITIONS:

	OUTSIDE	INSIDE DRAFT	VISIBLE DUST	HOUSEKEEPING
	(Clear)	None	None	GOOD
	Cloudy	(Slight)	(Slight)	
	Rain	Moderate	Moderate	
	Snow	Excessive	Heavy	

REMARKS

SAMPLING DATA & EVALUATION

Pump Type & No.	Flow Rate	Sample No.	Employee	Operation/Area	Pump Off	Pump On	Sampling Time	Operating Volume	Remarks	Lab Evaluation
BENDIX 5547	1.5	AKC 1	N. GOVOSTES	COILING	1005	1030	35	52.5		0.5
5675	"	AKC 2	M. BUSHEY	12" BRAIDERS	1110	1035	35	52.5		1.0
5694	"	AKC 3	T. MULSTONE	LATTICE	1115	1036	39	58.5		1.6
10842	"	AKC 4	B. KENNEDY	375	1120	1038	42	61		0.5
5547	"	AKC 5	J. McMANUS	PRESSING	1140	1110	30	45		0.0
5675	"	AKC 6	P. GARRITY	WINDING ROOM	1155	1115	40	60	RESPIRATOR WORN	25.7
10842	"	AKC 7	W. JONES	LATTICE	1145	1120	25	37.5		0.8
5694	"	AKC 8	PACKING AREA	——→	1200	1125	35	52.5		0.0
5547	1"	AKC 9	W. BOSS	18" BRAIDERS	1220	1145	25	37.5		0.8
5675	"	AKC 10	D. CARPENTER	ROUND BRAID	1225	1150	35	52.5		1.7
5694	"	AKC 11	P. GARRITY	WINDING	1225	1155	30	45	RESPIRATOR WORN	19.4
10842	"	AKC 12	J. BARRASSO	TWISTERS	1230	1200	30	45		0.8

Sampling By H. A. ESCHENBACH Laboratory Evaluation By F.G. SERAFIN & H.A.E.

Date 15 OCT 74

Plant Location _____ Date of Sampling _____ Type Contaminent Sampled _____

SAMPLING CONDITIONS:

OUTSIDE	INSIDE DRAFT	VISIBLE DUST	HOUSEKEEPING
Clear	None	None	
Cloudy	Slight	Slight	
Rain	Moderate	Moderate	
Snow	Excessive	Heavy	

REMARKS _____

SAMPLING DATA & EVALUATION

Pump Type & No.	Flow Rate	Sample No.	Employee	Operation/Area	Pump Off	Pump On	Sampling Time	Operating Volume	Remarks	Lab Evaluation
5547	1.5	AKC 13	P. GAGHARDI	ROUND	1310	1240	30	45		0.9
5675	1.5	AKC 14	B. BROWN	LATTICE	1315	1245	30	45		0.6
5694	"	AKC 15	J. KANE	WINDING	1330	1300	30	45	RESPIRATOR WORN	20.5
10842	"	AKC 16	—	1500 ROOM	1331	1301	30	45	GENERAL ROOM SAMPLE BZ HEIGHT	TRACE

Sampling By _____ Laboratory Evaluation By _____

Date _____