

INTER-OFFICE MEMO **TENNECO CHEMICALS, INC.**

TO Mr. F. X. Ritter AT Piscataway DATE October 9, 1974
 FROM W. C. Champion AT Flemington COPY TO Please see below
 SUBJECT Flemington and Burlington
Monitoring Data

Attached are summaries of monitoring data (both personnel and OVA area monitoring) for the Burlington and Flemington resin plants and the Burlington compound plant, for the months of June, July and August, 1974. The data are presented as follows:

1. Time-Weighted Exposure Averages (TWA), are calculated for each job classification in the resin plants on an 8-hour basis, using the averages of the OVA area monitoring data and a job/time description worked out by Production. Because of the limitations of the OVA (reads all hydrocarbons, accurate to ± 1 ppm below 10 ppm, does not read below 1 ppm), an estimate of true VCM exposure was made by subtracting as "background" the average reading for the up-wind outside air (generally 2-6 ppm) from each TWA value.
2. OVA Area Monitoring monthly averages and maxima. Again, the averages were corrected by subtraction of background. Some areas - especially laboratories - may show artificially high values due to the presence of solvent vapors.
3. A summary of Personnel Monitoring Data by job classification. These values are obtained from analysis of discrete, 10 minute sampling of the person's breathing air, and provide an indication of the workers exposure to ambient VCM in their usual working area. Data where breathing masks were used are excluded from this summary, since there are insufficient samples for meaningful analysis of the data.


 W. C. Champion

WCC:cet

Copy to

H. B. Carr
 J. Fath
 G. Flint
 W. F. Gabel
 J. F. Kilcullen
 Dr. P. A. Lobo
 W. Miringoff
 J. W. Poarch
 D. Rhoads
 G. I. Rozand
 D. I. Smalley
 F. Toca

COLORITE 013424

BURLINGTON RESIN PLANTS' OPERATING PERSONNEL

TIME-WEIGHTED VCM EXPOSURES

<u>Employee Classification</u>	<u>TWA, ppm</u>		
	<u>June</u>	<u>July</u>	<u>August</u>
<u>Suspension Area</u>			
1. Area Foreman	7.8	7.2	5.8
2. Homopolymer Reactor Operator/Charger	8.1	8.5	6.4
3. Homopolymer Reactor Operator/Dumper	8.2	6.7	6.8
4. Copolymer Reactor Operator/Charger	6.1	6.7	4.5
5. Copolymer Reactor Operator/Dumper	5.5	6.4	3.7
6. Dryer Operator	4.9	7.1	4.1
7. Bagger/Cleaner	4.2	4.3	3.8
8. Labor Pool/Bagger	2.7	2.6	1.2
<u>Plastisol Area</u>			
9. Area Foreman	10.6	12.3	11.4
10. Shift Foreman	6.7	6.8	4.6
11. "A" Plant Tower Operator/Charger	25.3	12.5	12.4
12. "A" Plant Tower Operator/Dumper	24.2	13.6	13.9
13. "B" Plant Tower Operator/Charger	11.9	8.4	8.1
14. "B" Plant Tower Operator/Dumper	11.0	9.3	8.1
15. Laborer/Cleaner (Jet)	9.4	18.4	15.4
16. Laborer/Cleaner (Manual)	6.2	10.5	12.0
17. Bagger	2.6	3.0	1.4
18. Atomizer Dryer Operator	5.4	4.4	2.9
19. Additive Dryer Operator	1.6	3.2	2.1
<u>Laboratory</u>			
20. Quality Control Laboratory Supervisor	16.6	15.1	8.4
21. Analytical Chemist	23.5	20.0	12.6
22. Colorist	23.1	19.4	13.2
23. Quality Control Technician/Day	23.4	23.4	13.7
24. Quality Control Technician/Shift	26.4	25.8	15.0
<u>Warehouse and Miscellaneous</u>			
25. Warehouse Supervisor	0.7	1.2	0.1
26. Warehouse Clerk	1.3	1.6	0.0
27. Warehouse Receiving Clerk	2.6	2.4	0.9
28. Warehouseman - Outside	0.0	1.0	0.1
29. Warehouseman - Inside	0.0	1.3	0.1
30. Effluent Operator	1.6	1.1	0.8
31. Boiler Operator	0.3	0.2	0.2
32. Lead Operator/Boiler-Effluent	2.0	1.5	1.1
33. Utility Man - Outside	1.2	0.9	0.7
34. Utility Man - Inside	4.4	5.0	3.8
35. Yard and Service Man - Outside	1.0	0.4	0.1
36. Yard and Service Man - Inside	2.5	1.8	0.7

*Over 50 ppm TWA

10/9/74 E.W.V

COLORITE 013425

BURLINGTON RESIN PLANTS VCM MONITORING SUMMARY

Monitoring Point	OVA Reading, ppm					
	June		July		August	
	Max	Ave	Max	Ave	Max	Ave
<u>Copolymer Plant, Ground Floor</u>						
1. Copolymer Inlet-Out, Outside	190	8.7	38	4.7	31	3.4
2. Copolymer Slurry Pump House	19	3.6	11	3.0	5	2.4
3. Blacktop, Outside Near DMW Tank	13	2.9	25	4.0	5	2.5
4. South-East Stairwell	63	8.2	38	7.4	45	4.7
*5. Recovery Area, Outside	700	26.8	38	14.3	900	23.6
6. Draining Recovery Receivers	Air Required		Air Required		Air Required	
7. Draining Master Mix Tanks	Air Required		Air Required		Air Required	
8. Draining Recovery Pumps	Air Required		Air Required		Air Required	
9. Recovery Compressor Area	19	7.3	38	11.7	74	7.8
10. Center Aisle	13	4.9	17	5.9	24	5.0
11. Reactors, Clean-Out Valve Open	13	4.5	102	7.1	20	4.7
12. Solution Make-Up Tank Area	13	4.5	102	7.1	20	4.7
13. Dry Chemical Weighing Area	13	4.5	102	7.1	20	4.7
14. Weigh Scale Area	15	4.6	51	6.3	9	4.5
<u>Copolymer Plant, Second Floor</u>						
15. Lavatory	38	4.8	51	8.4	31	4.2
16. Panel Board/Desk Area	23	5.7	32	7.0	17	3.9
17. Center Aisle	15	4.9	38	8.1	17	4.7
18. Weigh Scale Area	13	5.6	51	7.8	12	4.9
19. Reactors, Opening 6" Access Hole	127	10.1	19	5.1	12	5.3
20. Reactors, Opening Manway	Air Required		Air Required		Air Required	
21. Reactors, Manual Cleaning	Air Required		Air Required		Air Required	
22. Chemical Hoist, Outside	19	4.2	45	7.1	17	3.9
23. Blend Tanks, Catwalk	127	8.6	13	4.5	17	3.2
24. Blend Tanks, Sampling for O ₂	Air Required		Air Required		Air Required	
25. Walkway to Homopolymer	-	-	-	-	-	-
<u>Homopolymer Plant, Second Floor</u>						
26. Panel Board/Desk Area	25	9.0	25	9.9	31	7.5
27. Center Aisle	25	7.7	24	8.5	24	6.8
28. Opening Reactor Lenape Cover	33	9.9	45	11.3	45	16.2
29. Reactor Washout	Air Required		Air Required		Air Required	
30. Manual Reactor Cleaning	Air Required		Air Required		Air Required	
31. Sampling Blend Tanks for O ₂	Air Required		Air Required		Air Required	
<u>Homopolymer Plant, Ground Floor</u>						
32. Slurry Pump House	36	7.5	32	8.4	31	5.0
33. Recovery Area, Outside	102	14.7	253	20.1	95	10.9
34. Recovery Compressor Area	114	16.2	38	10.2	310	19.9
35. Weigh Scale Area	51	9.8	25	7.4	24	6.2
36. Center Aisle	38	7.2	24	6.8	24	5.9
37. Reactors, Clean-Out Valve Open	13	6.0	21	6.5	139	18.4
38. North-West Stairwell	32	4.7	15	4.3	200	11.0

FLEMINGTON RESIN PLANT; OPERATING PERSONNEL

TIME-WEIGHTED VCM EXPOSURES

EMPLOYEE CLASSIFICATION	TWA; ppm		
	<u>JUNE</u>	<u>JULY</u>	<u>AUGUST</u>
POLYMERIZATION FOREMAN	4.7	2.6	1.7
SHIFT FOREMAN	3.7	2.2	2.0
REACTOR OPERATOR / CHARGER	3.9	2.0	2.1
REACTOR OPERATOR / DUMPER	3.3	1.0	0.6
REACTOR OPERATOR / RELIEF	4.0	1.6	1.0
UTILITY OPERATOR	0	0	0
DRYER OPERATOR	2.4	1.7	1.1
WAREHOUSEMAN	1.6	2.1	1.3
BAGGER	10.3	1.7	0
MAINTENANCE FOREMAN	6.4	0.7	4.6
MECHANIC; SHIFT	11.2	4.4	2.5
MECHANIC; DAY	3.2	2.3	3.4
LEAD BOILER OPERATOR	0	0.5	0
BOILER OPERATOR	0	0.5	0
LABORATORY TECH. / DAY	2.7	1.0	1.0
LABORATORY TECH. / 4-12	4.0	2.0	1.5
LABORATORY TECH. / SHIFT	4.6	2.6	1.8

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FLEMINGTON RESIN PLANT VCM MONITORING Summary

	<u>OVA READ OUT: ppm</u>					
	<u>JUNE</u>		<u>JULY</u>		<u>AUGUST</u>	
	<u>MAX</u>	<u>AVE</u>	<u>MAX</u>	<u>AVE</u>	<u>MAX</u>	<u>AVE</u>
BLACKTOP AREA; WHSE.	10.0	0.3	8.0	0	9.0	
Up-WIND; PLT.	8.0	0	8.0	0	10.0	
DOWN-WIND PLT	10.0	0.3	9.0	0.3	10.0	
LUNCH Room	33.0	4.0	40.0	2.2	12.0	
<u>QUALITY CONTROL LAB</u>						
LAB #1; 2-ROLL mill	15.0	2.5	12.0	0.8	16.0	
LAB #2, PLASTICORDER	25.0	7.7	20.0	5.0	16.0	
LAB #2, DESK	25.0	8.0	25.0	4.7	16.0	
OFFICE	25.0	7.4	15.0	3.3	16.0	
<u>DRYER BLDG./WHSE.</u>						
FOREMAN'S OFFICE	33.0	8.6	20.0	5.1	21.0	
MAINTENANCE OFFICE	22.0	6.9	20.0	5.4	33.0	
MAINTENANCE SHOP	22.0	4.5	20.0	4.8	44.0	
WAREHOUSE	13.0	2.2	15.0	2.5	10.0	
WAREHOUSE OFFICE	10.0	0.3	15.0	2.0	12.0	
BAGGING Room	40.0	6.1	25.0	5.8	16.0	
DRYER MONIT. DESK	11.0	1.9	12.0	1.5	12.0	
DRYER PANEL BOARD	11.0	2.4	12.0	1.5	12.0	
TAILING COLL. AREA	11.0	2.5	12.0	1.6	12.0	
SIFTER DECK B	13.0	2.3	25.0	2.5	12.0	
CENTRIFUGE B	11.0	2.2	20.0	2.1	10.0	
SIFTER DECK A	13.0	3.4	15.0	2.8	12.0	
CENTRIFUGE A	52.0	18.3	40.0	9.3	20.0	
SLURRY TRANS. Hook-Up	20.0	2.1	20.0	1.6	16.0	
WET CAKE Sampling	20.0	4.2	25.0	2.7	15.0	
BAGGING MACH. OPR'S. STAT. BAGGING	90.0	23.0	50.0	15.5	26.0	
BAGGING MACH OPR'S. STAT. BOXING	25.0	17.8	—	—	—	
<u>UNDERGROUND VCM TANK Fm.</u>						
TANK FARM AREA, CENTER	25.0	2.0	10.0	1.2	16.0	
COMPRESSOR SHACK	45.0	11.0	12.0	4.7	37.0	
WALKWAY BETWEEN Tr. Fm. + F-6	33.0	1.3	10.0	0.4	7.0	
CHECKING TANK LEVEL	BREATHING AIR READ.					
CHECKING F-6 LEL + O ₂	BREATHING AIR READ.					

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	<u>JUNE</u>		<u>JULY</u>		<u>AUGUST</u>	
	<u>MAX</u>	<u>AVG</u>	<u>MAX</u>	<u>AVG</u>	<u>MAX</u>	<u>AVG</u>
<u>VCM RAIL CAR UNLD. AREA</u>						
UNLOADING PLATFORM	8.0	0.5	9.0	0.1	10.0	0.5
VCM RAIL CAR SAMPLING	BREATHING AIR REQD.					
VCM RAIL CAR DISCONNECT	BREATHING AIR REQD.					
DRAINING VCM UNLD. Comp.	-	-	-	-	-	-

REACTOR BLDG - 2ND FLOOR

STAIRWAY	20.0	3.6	22.0	2.2	55.0	2.9
STAIRWELL ANTEROOM	52.0	6.6	22.0	3.1	22.0	1.8
LAVATORY	40.0	5.8	40.0	4.7	22.0	2.2
CHARGE METER AREA	40.0	3.4	12.0	1.8	33.0	2.5
FOREMAN'S DESK	40.0	3.8	25.0	3.1	16.0	1.7
OPERATOR'S DESK	33.0	3.1	20.0	2.1	16.0	1.9
PANEL BOARD	33.0	2.3	14.0	1.5	16.0	1.5
STRIPPER PLAT.	33.0	2.4	12.0	1.5	21.0	1.3
CENTER AISLE	40.0	2.9	12.0	1.7	21.0	1.9
OPEN REACTOR	33.0	3.8	12.0	2.0	44.0	2.6
REACTOR OPENING	BREATHING AIR REQD.					
OPEN & CLOSE HAMMER BD.	33.0	3.5	10.0	2.1	21.0	1.4
OPEN & CLOSE DUMP VALVE	25.0	2.6	12.0	2.1	16.0	1.7
WATER JET REACTOR	BREATHING AIR REQD.					
REACTOR CLEANING, MANUAL	BREATHING AIR REQD.					
REACTOR CLOSING	25.0	2.8	9.0	1.5	21.0	2.7

REACTOR BLDG - 4TH FLOOR

CENTER AISLE	25.0	2.0	45.0	2.4	21.0	1.4
SLURRY BASKET AREA	33.0	2.4	45.0	2.0	16.0	1.2
METHOCEL MAKE-UP PLT.	25.0	2.8	49.0	2.1	16.0	1.0
RECOVERY Comp. Room	49.0	65.3	57.0	17.1	21.0	3.7
SLURRY BASKET CLEANING	-	-	-	-	-	-

RECOVERY TANK FARM

RECOVERY TANK AREA	11.0	0.3	12.0	0.9	10.0	0.2
WALKWAY NEAR BUNKER	8.0	0	10.0	0.4	10.0	0.1
CATALYST WEIGH HOUSE	8.0	0	9.0	0.2	12.0	0.3
SETTLING PONDS	11.0	0.2	10.0	0.9	12.0	0.3
RECOVERY TANK; H ₂ O DRAIN OFF	BREATHING AIR REQD.					

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	<u>JUNE</u>		<u>JULY</u>		<u>AUGUST</u>	
	MAX	AVG	MAX	AVG	MAX	AVG
<u>PILOT PLANT</u>						
REACTOR AREA - 1ST FLR.	8.0	0.1	10.0	0.7	16.0	0.6
REACTOR AREA - 2ND FLR.	10.0	0	10.0	1.3	16.0	0.6
FINISHING AREA	8.0	0	10.0	0.5	12.0	0.2
OPENING DUMP VALVE						
CLOSING " "						
REACTOR DUMPING						
REACTOR OPENING						
REACTOR CLEANING						
TOWER BOTTOM REMOVAL						
REACTOR CLOSING	-	-	8.0	0.7	-	-
<u>BOILER HOUSE</u>						
SOUTH END	7.0	0	10.0	0.5	12.0	0
NORTH END	7.0	0	9.0	0.4	12.0	0
<u>BULK LOADING & TRANSFER</u>						
TOWER AREA	8.0	0	12.0	1.0	12.0	0.6
TRANSFER LINE Hook-Up	7.0	0.1	9.0	1.7	5.0	0
BULK TRUCK Sampling	20.0	1.4	10.0	1.8	5.0	0
BULK RAIL CAR Sampling	-	-	10.0	5.2	-	-
PRODUCTION OFFICE	-	-	12.0	0.7	7.0	0.1
FABRICAL OFFICE AREA	-	-	11.0	1.1	12.0	0.4
R+D BLDG. OFFICE AREA	-	-	9.0	0.5	8.0	0.1

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OVA Reading, ppm

Monitoring Point	June		July		August	
	Max	Ave	Max	Ave	Max	Ave
<u>Dispersion Plant "A", Ground Floor</u>						
39. "A" Plant Drag-Out, Outside	25	5.0	11	3.5	17	3.3
40. North-East Stairwell	25	3.0	20	4.1	38	4.4
41. In-Line Mixer Area	70	20.4	81	23.4	110	17.7
42. Moyno Pump Area	253	27.9	77	21.5	215	24.1
43. Dryer Panel Board Area	51	21.9	89	23.9	95	19.4
44. Under Tower, Opening Hammer Blind	25	14.2	127	40.2	24	17.9
45. Under Tower, Water Cleaning	25	14.2	127	40.2	24	17.9
46. Under Tower, Manual Cleaning	25	14.2	127	40.2	24	17.9
<u>Dispersion Plant "A", Second Floor</u>						
47. North-East Stairwell	23	5.6	19	4.8	67	5.6
48. Stripper #1 Area	51	14.2	38	11.1	81	12.9
49. West Cake Bin Area	190	35.4	95	28.8	150	28.5
50. Latex Blend Tank Area	115	29.5	60	25.4	139	25.6
51. Homo System Area	115	22.2	200	26.4	67	19.2
<u>Dispersion Plant "A", Third Floor</u>						
52. Panel Board/Desk Area	189	29.0	45	13.5	95	15.5
53. Catwalk, Filter #1	2000	84.0	Air Required		Air Required	
54. Back of Filter #1	2000	84.8	139	26.5	117	17.1
55. Back of Filter #2	2000	84.8	139	26.5	117	17.1
56. Catwalk, Filters #2 and #3	2000	84.8	Air Required		Air Required	
57. Back of Filter #3	2000	84.8	139	26.5	117	17.1
58. Batch Mix Tank, Back	190	34.2	89	21.9	95	18.4
59. Batch Mix Tank, Weigh Scale	190	34.2	89	21.9	95	18.4
60. Catalyst Charge Pot	190	34.2	89	21.9	95	18.4
61. Cake Breakers	189	47.1	189	29.9	67	20.1
62. Elevator	19	4.3	23	4.1	12	3.0
<u>Dispersion Plant "A", Penthouse</u>						
*63. Center Aisle	50	7.1	127	7.8	430	24.3
64. Opening Tower Manway	Air Required		253	24.5	430	42.8
65. Water Cleaning Tower	11	3.3	6	2.6	2	1.9
66. Manual Cleaning Tower	11	3.3	6	2.6	2	1.9
67. North-East Stairwell	12	3.7	127	7.2	430	21.8
<u>Dispersion Plant "B", Penthouse</u>						
68. Center Aisle	15	4.5	25	4.2	1000	37.1
69. Opening Tower Manway	Air Required		3000	147.5	139	15.9
70. Water Cleaning Tower	100	50.8	4	2.9	24	23.9
71. North-West Stairwell	12	2.6	139	8.6	38	5.4
<u>Dispersion Plant "B", Third Floor</u>						
72. North-West Stairwell	21	3.9	24	4.0	24	4.9
73. Back of Filter #6	127	33.3	38	17.1	52	14.0
74. Back of Filter #5	127	33.3	38	17.1	52	14.0
75. Catwalk, Filters #5 and #4	127	33.3	Air Required		Air Required	
76. Back of Filter #4	127	33.3	38	17.1	52	14.0
77. Catwalk, Filter #6	127	33.3	Air Required		Air Required	
78. Cake Breaker Area	45	21.3	38	15.5	110	18.8
79. Batch Mix Tank, Back	50	16.6	38	13.1	139	16.2

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OVA Reading, ppm

Monitoring Point	June		July		August	
	Max	Ave	Max	Ave	Max	Ave
<u>Dispersion Plant "B", Third Floor (cont'd)</u>						
80. Batch Mix Tank, weigh Scale	50	16.6	38	13.1	139	16.2
81. Catalyst Charge Pot	50	16.6	38	13.1	139	16.2
82. Panel Board/Desktop Area	32	13.2	24	10.0	24	8.1
83. Latex Blend Tank - Tween 20 Funnel	-	-	-	-	-	-
84. South-Center Stairwell	47	12.0	32	11.2	24	6.0
<u>Dispersion Plant "B", Second Floor</u>						
85. Latex Blend Tank #0	1000	85.9	Air Required		Air Required	
86. Stripper Area	38	9.9	25	7.7	38	7.8
87. Wet Cake Bin Area	44	12.0	25	8.5	1000	26.1
88. Homo System Area	45	9.6	52	9.5	52	8.2
89. Lavatory	25	8.3	32	9.0	24	6.7
<u>Dispersion Plant "B", Ground Floor</u>						
90. North-West Stairwell	19	3.7	21	2.9	52	3.5
91. "B" Plant Drag-Out, Outside	11	2.8	31	4.4	5	1.2
92. Dryer Panel Board Area	19	5.9	24	5.8	9	3.3
93. In-Line Mixer Area	127	13.5	24	6.8	24	4.9
94. Moyno Pump Area	77	13.7	25	7.4	31	5.0
95. Vacuum Pump Area	50	9.4	25	7.1	9	3.9
96. Under Tower, Opening Hammer Blind	25	6.9	102	31.7	5	2.5
97. Under Tower, Water Cleaning	25	6.9	102	31.7	5	2.5
98. Under Tower, Manual Cleaning	25	6.9	102	31.7	5	2.5
<u>Tank Farm</u>						
99. Unloading Station, Outside	7	0.4	4	1.1	2	0.7
100. Tank Car, Sampling	Air Required		Air Required		Air Required	
101. Tank Car, Connecting Lines	Air Required		Air Required		Air Required	
102. Storage Tank Level Check	Air Required		Air Required		Air Required	
103. Compressor House #1	189	13.8	13	0.9	290	10.0
104. Compressor House #2	127	13.1	127	3.6	4	0.3
105. Refrigeration Building	43	4.4	7	1.9	2	0.7
<u>Classification Building</u>						
106. Atomizer Room	7	2.2	11	3.1	8	1.6
107. Plastisol Bagger	9	2.4	13	3.3	4	1.5
108. Syntrons	8	2.2	13	3.3	4	1.5
109. Merchan Feeder Area	8	2.4	20	4.3	4	1.5
<u>Suspension Dryer Building</u>						
110. Dryer Panel Board	19	4.5	23	8.0	17	4.5
111. Operator's Desk	20	4.5	19	8.0	9	3.8
112. Dryer Area	13	3.7	19	7.5	9	3.4
113. Copolymer Bagging Station	25	6.1	23	9.5	17	5.4
114. 10MM and 40MM Bagging Station	13	3.0	13	4.7	9	2.3
115. Cleaning Copolymer Dryer	-	-	-	-	-	-
116. Cleaning 40MM Dryer	-	-	-	-	-	-
117. Cleaning 10MM Dryer	-	-	-	-	-	-
118. Centrifuge Deck	13	3.8	14	5.1	5	1.4
119. 40MM and 10MM Line Magnets	13	3.9	9	3.6	4	1.5

COLORITE 013432

OVA Reading, ppm

Monitoring Points	June		July		August	
	Max	Ave	Max	Ave	Max	Ave
120. 10MM Sifter	13	3.9	11	4.0	4	1.5
121. 40MM Sifter	13	3.6	11	4.0	2	1.3
122. 10MM and 40MM Line Palletizing	8	2.5	11	2.8	4	1.3
123. Copolymer Palletizing	11	2.9	11	2.8	4	1.4
124. Dispersion Palletizing	8	2.5	8	2.1	2	0.8
125. Lunch Room-East End	15	4.0	7	0.8	2	0.5
126. Lunch Room-West End	21	4.6	7	1.2	5	0.9
127. Maintenance Shop-North End	8	2.5	6	0.6	4	0.6
128. Maintenance Shop-South End	8	2.4	8	1.2	4	0.4
129. Maintenance Shop-Welding Well	8	2.4	7	1.0	1	0.1
<u>Production and Maintenance Offices</u>						
130. Maintenance General Foreman's Office	11	3.1	7	1.5	2	0.4
131. Maintenance Foreman's Office	15	3.5	7	1.3	4	0.4
132. Engineer's Office	19	3.8	8	1.8	2	0.9
133. Safety Supervisor's Office	25	6.6	7	2.0	2	0.9
134. Production Foreman's Office	25	6.9	8	2.8	4	1.6
<u>Warehouse</u>						
135. West Aisle	6	0.8	7	1.2	1	0.0
136. West-Center Aisle	7	1.5	7	1.0	1	0.0
137. Checker's Desk Area	6	0.8	7	1.5	1	0.1
138. Shipping Office	6	1.5	7	1.4	1	0.0
139. Receiving Office	8	1.5	12	1.4	1	0.0
140. East-Center Aisle	11	2.1	9	1.4	1	0.2
141. East Aisle	9	2.4	7	1.0	1	0.2
142. Bass Office	6	0.5	7	0.6	1	0.0
<u>Copolymer Bulk Station</u>						
143. Sifter Desk	6	1.1	6	0.8	2	0.5
144. Second Desk	6	0.8	6	0.7	2	0.4
145. Tailing Hopper, Outside	5	0.1	4	0.3	1	0.3
<u>Loading Area</u>						
146. Homopolymer Transfer House	6	0.6	6	0.8	2	0.3
147. Bulk Truck	2	0.0	6	1.2	2	0.2
148. Hopper Car	2	0.0	6	0.1	2	0.3
149. Initiator Freezer	63	18.9	505	79.1	139	14.8
150. Initiator Weigh House	7	0.5	6	0.1	2	0.3
<u>Effluent Plant</u>						
151. Ground Floor-South	5	0.7	4	0.1	2	0.4
152. Ground Floor-North	5	0.7	4	0.0	2	0.4
153. Laboratory	8	1.9	8	1.5	7	2.0
154. Second Floor-North	7	1.4	6	0.7	2	0.7
155. Second Floor-South	7	1.6	6	0.8	2	0.8
156. Catwalk, Outside	38	5.1	21	3.6	9	3.7
157. Boiler House-North	6	0.2	7	0.1	2	0.2
158. Boiler House-South	6	0.3	-	-	4	0.4

COLORITE 013433

Monitoring Point	OVA Reading, ppm					
	June		July		August	
	Max	Ave	Max	Ave	Max	Ave
<u>ARDO Building</u>						
159. Operator's Desk Area	8	1.1	11	3.4	5	2.3
160. Panel Board	9	1.8	11	3.2	5	2.4
161. Latex Blend Tank	9	1.8	11	3.2	5	2.3
<u>Quality Control Laboratory</u>						
162. Hood Area	127	29.1	127	29.8	67	18.0
163. Desk Area	127	32.5	127	32.6	60	17.7
164. Constant Temperature Room	89	23.6	102	21.1	38	14.1
165. Analytical Laboratory	114	28.5	63	20.9	38	14.8
166. Vent Area	4	0.8	6	0.8	9	1.5
167. Reception Area	19	7.5	14	6.1	24	5.9
168. Office Hallway	38	7.8	11	4.9	9	3.1
169. Outside Plant-Upwind	6	0.0	4	0.0	1	0.0
170. Outside Plant-Downwind	7	0.1	6	0.0	1	0.0
171. P.E. Trailer	-	-	7	2.1	4	1.2

10/9/74 F.W.K.

Burlington C.P.D. Plant VCM Monitoring

	OVA Reading PPM			
	JUNE AVG	JULY AVG	AUG AVG	SEPT AVG
<u>Mixer Floor</u>				
1) Operator Room	3.3	4.2	2.2	2.2
2) Hoist	2.9	3.4	1.9	2.1
3) Lead Room	3.0	3.5	1.8	2.2
4) Mixer #1	3.9	3.2	2.1	2.1
5) Mixer #2	3.8	3.5	2.5	2.1
6) Mixer #3	3.4	3.6	2.2	2.5
7) Panel Board	2.6	2.9	1.1	2.5
<u>Belt Feeder Floor</u>				
8) CM Belt Feeder	6.8	3.6	2.4	6.5
<u>Ground Floor</u>				
9) BETWEEN Panel BD-CM Incline FROM	5.2	2.9	13.6	3.8
10) EXT to ML	6.5	4.1	9.9	5.0
11) Mill-Operator Area	4.2	3.3	4.4	5.0
12) Bottom Belt-Incline	3.5	2.4	4.3	2.3
13) Cooling Trough - E	3.2	2.4	1.6	3.5
13) " " - W	3.2	2.7	1.6	2.5
14) Dicer Room	3.6	3.3	2.8	2.9
15) Shaker #1	3.9	3.1	2.2	3.3
15) Shaker #2	4.6	3.5	2.3	2.2
16) Packing Area	2.6	2.7	4.4	—
A) Gaylord Scale	2.6	6.0	1.1	1.5
21) Packing Area	1.2	2.2	—	—

<u>C and Floor (cont)</u>	<u>DNA Reading PPM</u>			
	<u>JUNE</u>	<u>JULY</u>	<u>AUG.</u>	<u>SEPT</u>
17) FOREMAN'S OFFICE	3.2	1.9	1.2	2.5
18) LUNCH ROOM	1.8	1.9	1.1	1.7
19) LOCKER ROOM	2.0	2.3	1.1	1.7
20) SHOWER ROOM	2.0	2.2	1.1	1.3
<u>MAINT SHOP</u>				
21) WEST	4.6	3.5	1.6	1.5
22) EAST- WELD AREA	3.9	3.5	1.6	1.5
23) COLOR ROOM-CENT	3.4	2.9	2.1	0.8
<u>QC Lab</u>				
24) EAST	4.3	3.1	1.6	1.1
25) @ ROM Mill	3.0	2.0	1.6	1.2
26) C.T. ROOM	5.6	3.9	2.5	3.2
27) OFFICE	2.3	1.7	1.2	1.4
<u>WAREHOUSE</u>				
28) NW AISLE	3.0	1.0	1.5	1.7
29) SW AISLE	2.4	2.0	1.1	2.0
30) OFFICE	2.4	2.9	0.9	1.2
31) SE AISLE	2.4	2.4	0.9	1.1
32) NE AISLE	3.6	2.5	0.9	0.8
33) Nth Outside Bldg.	6.1	4.5	1.6	1.8
<u>34) Liquid Storage</u>				
A) North	0.7	0	0.3	0.8
B) South- STAIRS	0.9	0	0.3	1.1

5) Solid Storage

	<u>OVA Reading PPM</u>			
	<u>JUNE</u>	<u>JULY</u>	<u>AUG.</u>	<u>SEPT</u>
A) #1	1.1	0	0.3	1.1
B) #2	0.8	0.2	0.3	0.8
C) #3	1.1	0	0.3	0.8

OFFICE AREA

36) XEROX ROOM	2.9	2.7	1.3	1.6
37) HALLWAY South	3.2	2.9	1.4	1.6

10/9/74 T.C.

FLEMINGTON PLANT PERSONNEL MONITORING JUNE, 1974

JOB CLASSIFICATION	N° OF SPLS	VCM, ppm			% EXCEEDING:			
		RANGE	MEAN	STD. DEV.	1ppm	5ppm	10ppm	25ppm
SHIFT FOREMAN	15	ND-32.9	6.54	10.31	73	27	20	13
POLY FOREMAN	18	ND-127	10.42	29.58	72	17	17	6
REACTOR OPERATOR	42	ND-239	11.10	38.08	86	17	7	5
UTILITY OPERATOR	35	ND-9.8	2.19	2.38	57	17	0	0
DRYER OPERATOR	13	0.5-9.5	2.65	2.69	69	23	0	0
WAREHOUSE FOREMAN	7	ND-3.9	1.39	1.58	43	0	0	0
WAREHOUSEMAN	15	ND-6.0	1.57	2.02	47	13	0	0
BAGGER	10	ND-86.2	21.65	29.7	80	60	50	30
MAINT. FOREMAN	4	ND-1.6	0.78	0.71	50	0	0	0
MAINT. CLERK	3	ND-2.0	0.97	-	33	0	0	0
MECHANIC / DAY	20	0.1-53.9	6.17	13.2	70	15	10	10
MECHANIC / SHIFT	12	ND-2.2	1.18	1.27	50	0	0	0
QC LAB SUPV.	3	ND-6.5	2.73	-	66	33	0	0
QC TECHNICIAN / DAY	3	0.5-6.9	2.7	-	33	33	0	0
QC TECH / SHIFT	16	ND-4.0	0.68	1.19	19	0	0	0
LEAD BOILER OPR	3	ND-0.7	0.23	0.4	0	0	0	0
STATIONARY ENGR.	15	ND-1.9	0.24	0.56	13	0	0	0
PILOT PLT GRP. LDR.	1	-	ND	-	0	0	0	0
PILOT PLT ENGR.	6	ND-2.5	0.95	1.05	83	0	0	0
PILOT PLT TECH	20	ND-2.9	0.6	0.88	20	0	0	0
PILOT PLT MAINT	3	ND-0.5	0.17	-	0	0	0	0
MONITORING ANALYST	0							
OFFICE AND STAFF	10	ND-0.8	0.14	0.3	0	0	0	0
R+D	40	ND-1.4	0.04	0.22	3	0	0	0

WISC

COLORITE 013438

BURLINGTON RESIN PLANT PERSON MONITORING DATA
JUNE 1974

<u>JOB CLASSIFICATION</u>	<u>NO OF SAMPLES</u>	<u>VCM PPM</u>		<u>% EXCEEDING:</u>				
		<u>RANGE</u>	<u>MEAN</u>	<u>0</u>	<u>1 PPM</u>	<u>5 PPM</u>	<u>10 PPM</u>	<u>25 PPM</u>
1. AREA FOREMAN-SUSPENS.	13	ND-20.	5.6	5.83	85	31	23	0
2. REACTOR OPERATOR								
a. HOMOPOLYMER	20	1.0-43.	13.62	20.18	95	75	40	10
b. COPOLYMER	19	0.2-21	6.40	5.13	84	53	16	0
3. DRYER OPERATOR	11	0.2-10	2.35	2.89	55	9	0	0
4. BAGGER-CLEANER	17	ND-27	8.19	7.60	88	59	29	6
a. BAGGING	6	ND-11	3.42	3.96	66	17	17	0
b. CLEANING REACTOR	11	1.8-27	10.79	7.97	100	82	36	9
5. AREA FOREMAN-PLASTIS.	11	5.1-50	22.02	13.61	100	100	82	27
6. SHIFT FOREMAN-PLANT	11	ND-4.8	1.47	1.66	45	0	0	0
7. TOWER OPERATOR	53	2.5-68	21.82	15.21	100	94	79	28
a. A-PLANT	27	2.5-68	26.30	16.04	100	93	89	44
b. B-PLANT	26	5.3-59	17.17	13.02	100	96	69	12
8. LABOR POOL	65	ND-53	6.86	10.16	66	40	20	5
a. CHANGE FILTER CLOTH	2	39-40	39.5	0.64	100	100	100	100
b. CLEAN TOWERS	22	0.5-53	10.79	11.42	86	73	36	5
c. BAGGING	32	ND-6.0	1.35	1.5	41	3	0	0
d. CLEAN REACTORS-HOMOPOL	9	1.5-22	9.41	5.84	100	78	33	0

COLORITE 013439

BRINGTON RESIN PLANT - JUNE 1974 52

<u>JOB CLASSIFICATION</u>	<u>NO OF SAMPLES</u>	<u>RANGE</u>	<u>VCM PPM</u>		<u>1 PPM</u>	<u>% EXCEEDING</u>		
			<u>MEAN</u>	<u>σ</u>		<u>5 PPM</u>	<u>10 PPM</u>	<u>25 PPM</u>
9. BAGGER-PLASTISOL	33	ND-3.3	1.02	0.89	39	0	0	0
10. ADDITIVE DRYER OPERATOR	15	ND-5.5	1.15	1.63	40	7	0	0
11. Q.C. TECHNICIAN	26	ND-4.4	1.38	1.75	46	4	0	0
a. SHIFT	23	ND-4.4	1.39	1.85	44	4	0	0
b. DAY	3	0.6-1.8	1.33	0.64	67	0	0	0
12. CHEMIST	4	ND-2.8	1.25	1.18	50	0	0	0
13. MONITORING ANALYST	5	ND-35	17.66	17.07	60	60	60	40
14. FOREMAN-MAINTENANCE	15	ND-11	1.75	3.03	40	7	7	0
a. SHIFT	12	ND-4.7	0.94	1.57	33	0	0	0
b. DAY	3	ND-11	4.97	5.58	67	33	33	0
15. MAINTENANCE MECHANIC	91	ND-38	2.51	5.10	50	12	5	1
a. SHIFT	72	ND-38	2.06	4.87	46	8	3	1
b. DAY	19	ND-21	4.23	5.72	63	26	16	0
16. BOILER OPERATOR	13	ND-4.8	0.95	1.71	23	0	0	0
17. EFFLUENT OPERATOR	10	ND-5.1	1.74	2.17	40	10	0	0
18. WAREHOUSE (FOREMAN AND CLERKS)	17	ND-3.4	1.34	0.98	65	0	0	0

COLORITE 013440

FLEMINGTON PLANT PERSONNEL MONITORING
AUGUST, 1974

JOB CLASSIFICATION	N ^o OF SPLS	VCM, ppm			% EXCEEDING:			
		RANGE	MEAN	STD. DEV.	1 ppm	5 ppm	10 ppm	25 ppm
SHIFT FOREMAN	10	ND-67	8.23	20.7	70	10	10	10
POLY FOREMAN	8	ND-9.9	2.16	3.36	38	13	13	0
REACTOR OPERATOR	26	ND-35.3	4.07	8.16	65	12	12	4
UTILITY OPERATOR	21	ND-175	11.1	37.7	62	19	10	5
DRYER OPERATOR	8	ND-23.2	4.49	7.8	50	13	13	0
WAREHOUSE FOREMAN	5	ND-1.6	0.69	0.69	20	0	0	0
WAREHOUSEMAN	9	ND-3.1	1.01	1.19	33	0	0	0
BAGGER	8	ND-11.6	3.06	3.99	63	52	13	0
MAINT. FOREMAN	6	ND-2.2	0.98	0.98	33	0	0	0
MAINT. CLERK	3	ND-1.2	0.43	0.67	33	0	0	0
MECHANIC / DAY	21	ND-3.8	1.04	0.91	33	0	0	0
MECHANIC / SHIFT	12	ND-3.9	1.48	1.66	42	0	0	0
QC LAB SUPV.	2	0.5, 1.3	0.9	—	50	0	0	0
QC TECHNICIAN / DAY	2	ND	ND	—	0	0	0	0
QC TECH / SHIFT	12	ND-6.7	1.18	1.98	33	8	0	0
LEAD BOILER, OPR	4	ND-0.1	0.05	—	0	0	0	0
STATIONARY ENGR	6	ND-0.7	0.13	0.28	0	0	0	0
PILOT PLT GRP. LDR.	1	—	ND	—	0	0	0	0
PILOT PLT ENGR	4	ND-2.1	0.53	—	25	0	0	0
PILOT PLT TECH	10	ND-1.7	0.45	0.7	20	0	0	0
PILOT PLT MAINT	2	ND, 1.0	0.5	—	0	0	0	0
MONITORING ANALYST	4	—	ND	—	0	0	0	0
OFFICE AND STAFF	9	ND-0.4	0.04	0.13	0	0	0	0
R+D	36	ND-0.2	0.01	0.04	0	0	0	0

COLORITE 013441

FLEMINGTON PLANT PERSONNEL MONITORING
JULY, 1974

JOB CLASSIFICATION	N ^o OF SPLS	VCM, ppm			% EXCEEDING:			
		RANGE	MEAN	STD. DEV.	1 ppm	5 ppm	10 ppm	25 ppm
SHIFT FOREMAN	18	ND-13.8	4.62	4.69	67	33	17	0
POLY FOREMAN	15	0.6-19.6	7.16	7.13	60	53	20	0
REACTOR OPERATOR	41	ND-68.5	6.25	12.28	54	32	17	7
UTILITY OPERATOR	43	ND-21.6	5.21	5.42	79	40	21	0
DRYER OPERATOR	16	ND-18.6	4.04	5.75	56	19	19	0
WAREHOUSE FOREMAN	9	ND-11.1	2.93	4.97	44	22	22	0
WAREHOUSEMAN	17	ND-12.0	2.16	3.9	41	18	12	0
BAGGER	13	0.5-55.0	26.5	16.9	92	92	77	46
MAINT. FOREMAN	9	ND-15.3	4.8	5.56	78	33	22	0
MAINT. CLERK	5	ND-9.9	5.48	3.74	80	60	0	0
MECHANIC / DAY	29	ND-19.8	6.61	6.18	76	45	24	0
MECHANIC / SHIFT	18	ND-19.0	5.16	6.8	44	39	28	0
QC LAB SUPV.	4	ND-2.9	0.73	—	25	0	0	0
QC TECHNICIAN / DAY	2	ND, ND	ND	—	0	0	0	0
QC TECH / SHIFT	20	ND-6.0	1.74	2.59	45	15	0	0
LEAD BOILER. OPR	3	ND-5.5	1.83	3.18	33	33	0	0
STATIONARY ENGR	16	ND-5.3	0.85	1.62	25	76	0	0
PILOT PLT GRP. LDR.	4	ND	ND	—	0	0	0	0
PILOT PLT ENGR	10	ND-6.7	1.46	2.64	30	20	0	0
PILOT PLT TECH	29	ND-13.0	1.5	3.14	17	17	3	0
PILOT PLT MAINT	3	ND-0.6	0.2	—	0	0	0	0
MONITORING ANALYST	14	ALL ND	ND	—	0	0	0	0
OFFICE AND STAFF	13	ND-12.8	1.02	3.54	8	8	8	0
R+D	35	ND-0.5	0.01	0.08	0	0	0	0

COLORITE 013442

IRLINGTON RESIN PLANT - JUNE 1974 13

<u>JOB CLASSIFICATION</u>	<u>NO OF SAMPLES</u>	<u>RANGE</u>	<u>VCM, PPM</u>		<u>1 PPM</u>	<u>% EXCEEDING</u>		
			<u>MEAN</u>	<u>σ</u>		<u>5 PPM</u>	<u>10 PPM</u>	<u>25 PPM</u>
19. UTILITY OPERATOR.	18	ND-24	2.80	5.65	50	11	6	0
20. YARD & SERVICE	3	1.0-8.0	3.40	3.98	100	33	0	0
21. OFFICE (COLONIST, LAB. SUPERV., SECRETARY, ENG., PLT. MAINT., BASE, MAINT. CLERK)	32	0.2-9.2	2.47	2.14	88	9	0	0

COLORITE 013443

10/9/74 F.W. KANZLER

BURLINGTON RESIN PLANT PER: AL MONITORING DATA

JULY 1974

JOB CLASSIFICATION	NO OF SAMPLES	RANGE	VCM, PPM		σ	1 PPM	% EXCEEDING		
			MEAN				5 PPM	10 PPM	25 PPM
1. AREA FOREMAN-SUSPENSION	14	0.1-17	6.98	5.85	86	43	36	0	
2. REACTOR OPERATOR									
a. HOMOPOLYMER	23	1.5-24	9.97	6.54	100	70	30	0	
b. COPOLYMER	31	0.1-16	4.70	3.78	90	36	13	0	
3. DRYER OPERATOR	12	ND-5.1	1.48	1.41	58	8	0	0	
4. BAGGER-CLEANER	25	ND-39	5.19	8.07	68	36	16	4	
a. BAGGING	7	ND-2.1	0.57	0.89	29	0	0	0	
b. CLEANING REACTOR	18	0.7-39	6.98	8.92	83	50	17	6	
5. AREA FOREMAN-PLASTISOL	14	0.6-78	19.16	21.69	86	79	57	29	
6. SHIFT FOREMAN-PLANT	15	ND-5.5	0.75	1.36	7	7	0	0	
7. TOWER OPERATOR	62	1.2-47	12.96	10.35	100	73	55	15	
a. A-PLANT	30	1.3-47	15.24	12.57	100	77	57	23	
b. B-PLANT	32	1.2-28	10.82	7.31	100	69	53	6	
8. LABOR POOL	75	ND-47	7.07	10.28	65	35	24	9	
a. CHANGE FILTER CLOTH	2	0.1-16.1	8.55	10.68	50	50	50	0	
b. CLEAN TOWERS	26	0.2-47	15.29	13.10	85	73	54	27	
c. BAGGING	33	ND-15	1.42	2.64	39	6	3	0	
d. CLEAN REACTORS-HOX COP	14	0.3-16	4.98	4.83	93	29	14	0	

COLORITE 013444

ILLINGTON RESIN PLANT - JULY 1974 - F

<u>JOB CLASSIFICATION</u>	<u>NO OF SAMPLES</u>	<u>RANGE</u>	<u>VCM, PPM</u>		<u>1 PPM</u>	<u>% EXCEEDING</u>		
			<u>MEAN</u>	<u>σ</u>		<u>5 PPM</u>	<u>10 PPM</u>	<u>25 PPM</u>
9. BAGGER - PLANTER	46	ND-8.1	1.14	1.40	35	2	0	0
10. ADDITIVE DRYER OPERATOR	14	ND-6.1	1.25	1.68	38	7	0	0
11. Q.C. TECHNICIAN	38	ND-122	4.68	20.30	24	5	5	5
a. SHIFT	34	ND-122	5.12	21.45	18	6	6	6
b. DAY	4	ND-1.3	0.90	0.61	75	0	0	0
12. CHEMIST	10	ND-1.9	0.64	0.62	20	0	0	0
13. MONITORING ANALYST	12	0.7-98	11.73	27.72	67	25	17	8
14. FOREMAN - MAINTENANCE	17	ND-11.	1.37	2.47	29	6	6	0
a. SHIFT	12	ND-11	1.53	2.88	33	8	8	0
b. DAY	5	ND-3.1	1.00	1.22	20	0	0	0
15. MAINTENANCE MECHANIC	116	ND-105	3.70	11.69	40	14	7	3
a. SHIFT	89	ND-105	3.32	12.11	38	13	5	2
b. DAY	27	ND-41	4.93	10.29	44	15	15	4
16. BOILER OPERATOR	18	ND-7.1	0.88	1.66	12	6	0	0
17. EFFLUENT OPERATOR	16	ND-3.8	0.76	1.07	31	0	0	0
18. WAREHOUSE (FOREMAN AND CLERKS)	28	ND-4.3	0.70	0.99	18	0	0	0

COLORITE 013445

1. ARLINGTON RESIN PLANT - JULY 1971 .p3

<u>JOB CLASSIFICATION</u>	<u>NO OF SAMPLES</u>	<u>RANGE</u>	<u>VCM, PPM</u>		<u>1 PPM</u>	<u>% EXCEEDING</u>		
			<u>MEAN</u>	<u>σ</u>		<u>5 PPM</u>	<u>10 PPM</u>	<u>25 PPM</u>
19. UTILITY OPERATOR	18	ND-2.3	0.79	0.82	33	0	0	0
20. YARD & SERVICE	3	ND-0.6	0.27	0.31	0	0	0	0
21. OFFICE (COLORIST, LAB. SUPERV., SECTRY, ENG., PLT. MGMT, BASI, MAINT. CLERK)	32	ND-3.5	0.40	0.70	13	0	0	0

COLORITE 013446

10/9/74 F.W. KANZLER

BURLINGTON RESIN PLANT PERSONAL MONITORING DATA
AUGUST 1974

<u>JOB CLASSIFICATION</u>	<u>NO OF SAMPLES</u>	<u>VCM, PPM</u>		<u>σ</u>	<u>1PPM</u>	<u>% EXCEEDING</u>		
		<u>RANGE</u>	<u>MEAN</u>			<u>5PPM</u>	<u>10PPM</u>	<u>25PPM</u>
1. AREA FOREMAN - SUSPENSION	8	1.0 - 15	5.76	4.44	88	63	13	0
2. REACTOR OPERATOR								
a. HOMOPOLYMER	18	0.1 - 41	9.86	10.95	89	50	33	11
b. COPOLYMER	19	0.7 - 13	4.57	4.18	95	32	16	0
3. DRYER OPERATOR	11	ND - 8.6	2.35	2.50	73	9	0	0
4. BAGGER CLEANER	17	ND - 12	2.69	3.05	65	12	6	0
a. BAGGING	8	ND - 1.4	0.46	0.59	25	0	0	0
b. CLEANING REACTOR	9	2.2 - 12	4.67	3.00	100	22	11	0
5. AREA FOREMAN - PLASTIC	12	4.1 - 50	19.70	11.91	100	92	75	25
6. SHIFT FOREMAN - PLANT	9	ND - 4.9	1.19	1.57	44	0	0	0
7. TOWER OPERATOR	40	ND - 54	18.72	12.87	90	80	78	28
a. A-PLANT	21	1.5 - 54	21.45	13.66	100	86	81	33
b. B-PLANT	19	ND - 44	15.73	11.52	79	74	74	21
8. LABER POOL	79	ND - 38	2.18	4.81	38	11	3	1
a. CHANGE FILTER CLOTH	—	—	—	—	—	—	—	—
b. CLEAN TOWERS	15	ND - 38	6.37	9.15	80	40	7	7
c. BAGGING	56	ND - 4.1	0.67	0.91	18	0	0	0
d. CLEAN REACTORS - HO-COP	8	1.7 - 14	5.50	4.16	100	38	13	0

COLORITE 013447

JRLINGTON RESIN PLANT - AUGUST 1971 p2

<u>JOB CLASSIFICATION</u>	<u>NO OF SAMPLES</u>	<u>VCM, PPM</u>		<u>σ</u>	<u>1 PPM</u>	<u>% EXCEEDING</u>		
		<u>RANGE</u>	<u>MEAN</u>			<u>5 PPM</u>	<u>10 PPM</u>	<u>25 PPM</u>
9. BAGGER - PLASTISOL	32	0.1 - 1.9	0.83	0.51	25	0	0	0
10. ADDITIVE DRYER OPERATOR	8	0.2 - 6.9	1.58	2.19	25	13	0	0
11. Q.C. TECHNICIAN	24	ND - 8.6	1.19	1.79	33	4	0	0
a. SHIFT	22	ND - 8.6	1.51	2.23	36	5	0	0
b. DAY	2	0.6 - 1.0	0.80	0.28	0	0	0	0
12. CHEMIST	4	0.6 - 1.0	0.75	0.19	0	0	0	0
13. MONITORING ANALYST	2	1.0 - 1.4	1.20	0.28	50	0	0	0
14. FOREMAN - MAINTENANCE	11	ND - 0.9	0.32	0.31	0	0	0	0
a. SHIFT	8	ND - 0.9	0.38	0.35	0	0	0	0
b. DAY	3	ND - 0.3	0.17	0.15	0	0	0	0
15. MAINTENANCE MECHANIC	74	ND - 77	1.79	9.14	15	3	3	1
a. SHIFT	48	ND - 20	0.87	2.88	10	2	2	0
b. DAY	26	ND - 77	3.60	14.94	23	4	4	4
16. BOILER OPERATOR	10	ND - 2.8	0.52	0.87	10	0	0	0
17. EFFLUENT OPERATOR	7	ND - 2.2	0.79	0.83	29	0	0	0
18. WAREHOUSE (FORWMAN AND CLERKS)	10	0.3 - 2.3	0.81	0.59	20	0	0	0

COLORITE 013448

BLINGTON RESIN PLANT - AUGUST 1ST 74-P3

<u>JOB CLASSIFICATION</u>	<u>NO OF SAMPLES</u>	<u>RANGE</u>	<u>VCM, PPH</u>		<u>1 PPM</u>	<u>% EXCEEDING</u>		
			<u>MEAN</u>	<u>SD</u>		<u>5 PPM</u>	<u>10 PPM</u>	<u>25 PPM</u>
19. UTILITY OPERATOR	20	ND-4.5	0.71	1.14	30	0	0	0
20. YARD & SERVICE	3	0.6-2.1	1.30	0.75	67	0	0	0
21. OFFICE (COLORIST, LAB, SUPERV. SECTRY, ENCL., PLT. MGMT, BACS, MAINT. CLERK.)	24	ND-0.8	0.09	0.21	0	0	0	0

COLORITE 013449

10/9/74 F.W. KANZLER

BURLINGTON COMPOUND PLANT PERSONAL MONITORING DATA
JUNE 1974

<u>JOB CLASSIFICATION</u>	<u>NO OF SAMPLES</u>	<u>RANGE</u>	<u>VCM PPM</u>		<u>1 PPM</u>	<u>% EXCEEDING</u>		
			<u>MEAN</u>	<u>σ</u>		<u>5 PPM</u>	<u>10 PPM</u>	<u>25 PPM</u>
1. LINE OPERATOR	12	ND-2.3	0.34	0.68	8	0	0	0
2. MIXER OPERATOR	13	ND-1.7	0.41	0.52	15	0	0	0
3. MILL OPERATOR	12	ND-0.8	0.30	0.31	0	0	0	0
4. UTILITY SERVICE	16	ND-1.3	0.18	0.34	6	0	0	0
5. Q.C. TECHNICIAN	17	ND-5.0	0.36	1.20	6	0	0	0
6. WAREHOUSE	27	ND-0.2	0.03	0.08	0	0	0	0
7. MAINTENANCE MELCH.	12	ND-0.9	0.35	0.3	0	0	0	0
8. SHORT WEIGHTS	1	ND	0	0	0	0	0	0
9. BAGGER	13	ND-1.1	0.18	0.32	8	0	0	0
10. FOREMAN	14	ND-2.3	0.27	0.6	7	0	0	0
11. OFFICE	5	ND	0	0	0	0	0	0

COLORITE 013450

10/9/74 F.W. KAWLER

BURLINGTON COMPOUND PLANT PERSONAL MONITORING DATA
JULY 1974

JOB CLASSIFICATION	NO OF SAMPLES	RANGE	VCM, PPM.		1 PPM	% EXCEEDING		
			MEAN	S		5 PPM	10 PPM	25 PPM
1. LINE OPERATOR	10	ND-1.8	0.60	0.68	20	0	0	0
2. MILL OPERATOR	16	ND-1.2	0.28	0.43	13	0	0	0
3. MIXER OPERATOR	14	ND-5.4	1.04	1.83	21	7	0	0
4. UTILITY SERVICE	15	ND-1.7	0.38	0.58	13	0	0	0
5. Q.C. TECHNICIAN	21	ND-5.6	0.55	1.28	14	5	0	0
6. WAREHOUSE	12	ND-10	1.39	2.82	17	8	8	0
7. MAINTENANCE MECH.	17	ND-4.6	0.48	1.11	6	0	0	0
8. SHORT WEIGHTS	4	ND-2.7	0.83	1.28	25	0	0	0
9. BAGGER	15	ND-0.8	0.22	0.31	0	0	0	0
10. FOREMAN	12	ND-2.4	0.41	0.78	17	0	0	0
11. OFFICE	5	0.7-2.9	1.68	0.93	60	0	0	0

COLORITE 013451

10/9/74 F.W. KANZLER

BURLINGTON COMPOUND PLANT PERSONNEL MONITORING DATA
AUGUST 1974

<u>JOB CLASSIFICATION</u>	<u>NO OF SAMPLES</u>	<u>VCM, PPM</u>			<u>1 PPM</u>	<u>% EXCEEDING</u>		
		<u>RANGE</u>	<u>MEAN</u>	<u>σ</u>		<u>5 PPM</u>	<u>10 PPM</u>	<u>25 PPM</u>
1. LINE OPERATOR	4	ND-0.5	0.15	0.24	0	0	0	0
2. MILL OPERATOR	4	ND-0.6	0.23	0.29	0	0	0	0
3. MIXER OPERATOR	4	ND-0.9	0.23	0.45	0	0	0	0
4. UTILITY SERVICE	4	ND-6.6	2.03	3.08	25	25	0	0
5. Q.C. TECHNICIAN	6	ND-0.4	0.13	0.16	0	0	0	0
6. WAREHOUSE	4	ND-0.2	0.05	0.10	0	0	0	0
7. MAINTENANCE MECHANIC	5	ND-0.3	0.06	0.13	0	0	0	0
8. SHORT WEIGHTS	—	—	—	—	—	—	—	—
9. BAGGER	3	ND-1.3	0.57	0.67	33	0	0	0
10. FOREMAN	4	ND-1.8	0.50	0.87	25	0	0	0
11. OFFICE	5	ND-0.1	0.02	0.04	0	0	0	0

COLORITE 013452

10/9/74 F.W. KANLER