FILE NAME: Rogers Corporation (ROG)

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DOCUMENT DESCRIPTION: Memo RE Manchester Emissions Inventory

August 1, 1972

SUBJECT: Manchester Emissions Inventory

FROM: EJSweeney

TO: SAB THJ WAH CQM LPMcVane KHBraun EJSweeney

1. LPMcVane and EJSweeney made an air intake and emissions inventory at the Manchester plant on 7/25.

   a. The exhausts that are purely for ventilation were designated with a letter; A, B, etc. We marked the letter either at the discharge point, or in most cases, on the starting box. When alphabet was used, we then doubled lettered the remaining units. We labeled the process stacks with #1, #2, etc. We also inventoried the air intakes, but did not label these items.

2. Exhaust Stacks

STACK	ITEM AND LOCATION	CFM DISCHARGE
A	Room Exhaust Southeast Corner, Milled Area	4,000
B	Thropp Mill Motor Vent Cooler	In and Out
C	Spencer Vacuum Vent Cloth Tube Arrestor - inside	300
D	Exhaust Roof Milled Area, South	13,000
E	Exhaust Roof Milled Area, South	13,000
F	Exhaust Roof Milled Area, Center	13,000
G	Exhaust Roof Milled Area, Center	13,000
H	Exhaust Roof Penthouse, Bldg. 11, 745 Area	5,000
I	Exhaust Wall #3 Kneader Area	3,000
J	Spencer Exhaust Cloth Tube Arrestor	300

Rogers-Gough 00265

2. Exhaust Stacks (cont'd)

K	Exhaust Wall - Solvent Mixing Area	3,000
L	Exhaust Floor - Solvent Mixing Area	1,500
M	Roof Exhaust Still Room	3,000
N	Roof Exhaust Still Room	5,000
O	Weigh Tank Still Roof - slight phenol odor	500
P	Roof Exhaust RK 725 Area	5,000
Q	Wall Exhaust 725 Area	3,000
R	Roof Exhaust South Beater Room	5,000
S	Roof Exhaust North Beater Room	5,000
T	Welder Exhaust	800
U	Wall Exhaust RL510 Area	5,000
V	Wall Exhaust RL510 Area	5,000
W	Roof Exhaust Large Blender	5,000
X	30" Exhaust Paper Machine Monitor	3,000
Y	30" Exhaust Paper Machine Monitor	3,000
Z	30" Exhaust Paper Machine Monitor	3,000
AA	30" Exhaust Paper Machine Monitor	3,000
BB	30" Exhaust Paper Machine Monitor	3,000

2. Exhaust Stacks (cont'd)

CC	36" Exhaust End of Layer	5,000
DD	36" Exhaust Calender and Press Room	3,000
EE	30" Exhaust Calender and Press Room	3,000
FF	30" Exhaust Calender and Press Room	3,000
GG	36" Exhaust Calender and Press Room-Over Beater Drive	5,000
HH	30" Exhaust Dampener Room	3,000
II	24" Exhaust Laboratory	2,000
JJ	Exhaust Hood Laboratory	1,000
KK	Exhaust Fan 510 Loft - Drying Loft	5,000
LL	Exhaust Fan Loft Gangway	5,000
MM	Exhaust Fan Locker Room	3,000
NN	Hood Exhaust Q. A. Lab	1,500
OO	Roof Fan Q. A. Lab	3,000
	TOTAL:	168,900

3. Process Emission Stacks

Mill #1 Area

STACK	ITEM AND LOCATION	CFM DISCHARGE
1	Dustex Cloth Tube Arrestor - 2 systems 150 lbs. per day dust - Production 800 #/hr. Tax Approved - Connected to Blending and Grinding Systems	4,000 each 8,000 total

Milled Area (cont'd)

2	Dustex Cloth Tube Arrestor - On Mill On Pregrinder --- Mill 800 #/day prod. 30 lbs. per day dust	Total	5,000 2,000 7,000 CFM
3	Micro Pul - Cloth Tube Arrestor - 1 system 800 #/hr. production, 150 #/hr. dust Grinder #2 and Primer		5,000
4	14 x 30 Mill Hood Water Vapor - Slight Fumes		2,000
		TOTAL:	22,000 CFM

RX AREA

5	Cyclone Collector - 745 Dryer In Warehouse Dust to Atmosphere - dust .4 lbs./hr. Estimate 350 lbs. per hr. production		3,500
6.	Micro Pulse Near Formaldehyde North of #3 Kneader Rm.	small blender - #3 kneader - #3, #2 kneader - #4 heater room -	2,000 4,000 6,000 4,000
7	725 Dryer System .8 lbs. per hr. by test Retesting - phenol on exhaust		1,500 CFM on A 7,000 CFM on B
8	Micro Pulse - 2 dryers 600 lbs. per hour		7,000
9	Boiler Superior		
10	Cleaver Brooks Boiler		
11	Matrix Dryer Exhaust		17,000
12	Water Vapor		17,000
13	RX Dryer System #700 Production 350#/hr. Estimate .4 #/hr. dust		2,000
		TOTAL:	71,000

4. Air Intakes

Air intakes designated I-1, I-2, etc.

Intake	Location	Type	CFM
I-1	Milled South	KGC	15,000
I-2	Sheet Cooler	KGC	4,000
I-3	Milled South	KGC	5,000
I-4	Milled Center	KGC	10,000
I-5	#3 Kneader Upstairs		15,000
I-6	Roof #2 Kneader Upstairs		7,000
I-7	Still Room Roof	KGC	8,000
I-8	735 Area	KGC	10,000
I-9	735 Area	KGC	15,000
I-10	Matrix Dryer and Machine	KGC	15,000
I-11	Loft Gangway	KGC	15,000
		TOTAL:	119,000

5. The position of the various pieces of equipment with their labelings is included on our plant layout print #S-1143.

6. Please note that we have exhaust capacity of 260,000 CFM and intake capacity of 119,000. This means we need to install about 140,000 CFM of air intakes; cost would be about $50,000. We should determine what exhaust will not be operated in winter. Then we can add intakes to satisfy the rest.

/pw