420 S.W. Fifth Avenue Portland, Oregon 97204 503/222 5561

PLAINTIFF'S EXHIBIT

GP-1436

August 6, 1973

Mr. F. C. Johns
New York State Department of Labor
Division of Industrial Hygiene
2447 Sheridan Drive
Tonawanda, New York 14150

Subject: BPA-218-73 Bag Packer Dust Collection System - Joint Cement, Akron, New York Gypsum Plant, Fan System No. 10

Dear Mr. Johns:

Enclosed are the necessary forms and drawings for our application to install an exhaust system for the above subject. Our original application for this system was disapproved by your department on July 6, 1973, due to the fact that the drawings did not contain sufficient details.

With reference to our proposed Fan System No. 9 for the bag slitter vent hood, we have deleted this item because we are now obtaining air velocities of 275 feet per minute across the face of the hood. Your vent requirements for this area were 200 feet per minute. The increased velocity was accomplished by totally enclosing three sides of the vent hood.

If additional details or documentation is required, please feel free to contact me at the Portland office.

Sincerely,

George Turner

George Turner
Project Engineer
Gypsum Division

GT:vm
Enc.
cc: Mr. I. A. Hoekstra - Erie County, New York
Mr. J. D. Rauch - Akron
Mr. W. Hammer - Akron
Mr. V. J. Tretter - Portland

4. Air contaminant emissions to outer air; list by contaminant name and indicate whether contaminant is (s) solid, (l) liquid, or (g) gas. Describe color and/or odor of visible and/or odorous contaminants.

Contaminant	Quantity (lb/hr)	Contaminant	Quantity (lb/hr)
Joint Cement Dust (white, odorless)	0.04		

Describe method for determining emissions:

Estimate 40 Lbs/Hr of Joint Cement Dust to 99.9% Efficient Cyclone & Baghouse

Emissions: (40 Lbs/Hr) (0.001) = 0.04 Lbs/Hr

5. Air or gas flow rate

If cyclic, SCFM/cycle _____; hrs/cycle _____; cycles/yr

If continuous, SCFM 3650; hrs/day 20; days/yr 340 (Average)

6. Physical characteristics of emission point

a. gas temperature at point of discharge: 70° F.

b. inside dimensions of outlet 12 in. x 13½ in. or _____ in. diameter

c. height above ground 14'6" ft.

RECEIVED ... 1973

7. Fuel (complete if fuel used as a process constituent) "Not Used"

a. Coal (Type) Anthracite_____; Bituminous_____; lbs/hr._____ %Sulfur by Wgt._____

b. Oil (Grade) 2_____ 4_____ 5_____ 6_____ GPH_____ %Sulfur by Wgt._____

c. Gas (Type) MFD_____; Nat._____; _____CFH; _____BTU/CF

8. Is this a new or existing source? New

9. If existing, has an environmental rating been certified for this emission source?

Not Applicable

0. If yes, give "E" number assigned_____

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
AIR RESOURCES MANAGEMENT PROGRAM

APPLICATION TO CONSTRUCT OR MODIFY A SOURCE OF AIR CONTAMINATION FOR COMPLIANCE WITH 10 NYCRR 175-180 PROCESS, EXHAUST OR VENTILATING SYSTEM

NOTE: See form Air-100.1 for application instructions and form Air-51 for address of field representative where application is filed.

1. DATE OF APPLICATION	EMISSION SOURCE REFERENCE NO.	APPLICANT, LEAVE BLANK
August 6, 1973	Not Assigned	I- E-

2. APPLICANT (Firm, Municipality, School, etc.) AND MAILING ADDRESS

Georgia-Pacific Corporation
900 S.W. 5th Avenue
Portland, Oregon 97204

3. NAME OF APPLICANT'S REPRESENTATIVE	TITLE	PHONE NUMBER
George Turner	Project Engineer	503-222-5561

4. NAME AND ADDRESS OF AUTHORIZED AGENT (if any) SUBMITTING APPLICATION:	ATTENTION	PHONE NUMBER
None	--	--

5. NAME OF PROFESSIONAL ENGINEER OR ARCHITECT PREPARING PLANS	N.Y.S. LICENSE NUMBER
Earland E. Harvey	19250

6. LOCATION OF INSTALLATION	STREET ADDRESS	CITY, VILLAGE, TOWN, COUNTY
☐ City ☒ Village ☐ Town	Bloomingdale Road	Akron, Erie County
	BUILDING: Joint Cement Mfg. / FLOOR: 1	DEPARTMENT: Packing

7. TYPE OF INSTALLATION	IF MODIFICATION, LIST NEW AND EXISTING EQUIPMENT
☒ New ☐ Modification	--

	YES	NO
8. a) HAS PREVIOUS APPLICATION FOR AIR POLLUTION CONTROL APPROVAL BEEN MADE FOR THIS INSTALLATION?	☒	☐
b) IS THIS A RESUBMISSION OF A PLAN PREVIOUSLY DISAPPROVED?	☒	☐
Enter Previous Application Number BPA-218-73		
c) IS THIS A MODIFICATION OF A PLAN PREVIOUSLY APPROVED?	☐	☐
Enter Previous Application No.		

9. GAS CLEANING OR TREATMENT EQUIPMENT: If none, check here ☐

a. Type	b. Manufacturer	c. Model or Catalog No.
Cyclone & Baghouse (Reverse Air Cleaning)	Cyclone: "Dustex" Baghouse: "Flex-Kleen"	Cyclone: 28-1005-32 Baghouse: 84-CT-54

d. Size	e. Design Capacity or Requirement	f. Maximum Pressure Drop
Cyclone: 2'8" Dia. x 8'0" Long Baghouse: 6'0" Dia. x 14'3" Long	ACFM 3650 @ Deg. F 70°	16 Inches W. G.

g. Rated Overall Efficiency	h. Cost of Cleaner
99.9 %	Complete Installation: $20,000.00

10. ARE COLLECTED AIR CONTAMINATES RECYCLED OR SALVAGED? ☒ Yes ☐ No
Describe recycling, salvage process or disposal method.

Collected material from cyclone and baghouse is recycled to bag packer feed hopper via bucket elevator.

11. EXPECTED PROJECT COMPLETION DATE	12. HAS APPLICANT COMPLIED WITH OTHER APPLICABLE CODES?
December 15, 1973	☒ Yes ☐ No

13. ENUMERATE DRAWING NUMBERS OF PLANS SUBMITTED IN TRIPLICATE WITH THIS APPLICATION

#40-73-1
#40-73-2
#40-73-3
#E-41-251
#7307-1

14. TYPE OF ESTABLISHMENT (Product manufactured or service rendered) (e.g. Foundry, Retail Store, Municipal, Lighting Fixtures, Toys, etc.)
Gypsum Products Manufacturer

15. TYPE OF OPERATION OR PROCESS (e.g. Woodworking, Coating, etc.)

SGP 0021912

16. EMISSION RATE POTENTIAL* (The rate in pounds per hour at which air contaminants would be emitted to the outer air in the absence of air pollution control facilities or other control measures.)

A. Gas and Liquid Particulates "Not Applicable"

Type	Quantity (lbs/hr)	Quantity (tons/yr)

B. Solid Particulates

Type	Process Weight (Total Weight of all materials introduced into a process; e.g. coke, limestone, etc.)
Joint Cement Dust	4 Tons per hour

C. Average hours operation: 20 per day 120 per week

*SEE PART 187 FOR DEFINITIONS AND APPLICABILITY

17. A. Proposed or Certified Environmental Rating (for process, exhaust or ventilation system applicable under Part 187)

B. If Environmental Rating has been certified, enter here: E-

18. EMISSIONS (Actual) Not applicable

A. Gaseous

Material	Quantity (lb/hr)	Stack Concentration PPM

B. Particulates

Material	Quantity (lb/hr)	Undiluted Exhaust Gas (lb/1000lb)
Joint Cement Dust	0.04	Not applicable

19. POINT OF DISCHARGE

A. Location	B. Height (ft above ground)	C. Elevation at ground level
Through Wall	14'6"	686 Ft.
D. Horizontal distance to nearest bldg beyond property line	**E. Exit inside - dimensions (inches)**	**F. Exit gas or air velocity (ft per minute)**
500 Ft.	12 x 13½"	3500
G. Exit gas or air temperature (°F)	**H. Air or gas flow rate (CFM)**	**I. Draft**
70°	3225	☐ Natural ☒ Mechanical

20. FUEL USED IN PROCESS "None"

A. Coal-Type lbs/hr % Sulfur by Weight

B. Oil-Grade GPH % Sulfur by Weight

C. Gas-Type Cu ft/hr

SIGNATURE OF INDIVIDUAL OR OFFICIAL	TITLE
George Turner *George Turner*	Project Engineer

Any person knowingly making any false statement or false report in connection with this application shall be liable for penalties as prescribed by law.

SGP 0021913

SHEET, FORM IM-212.1 FOR GUIDANCE IN THE PREPARATION OF EXHAUST SYSTEM PLANS.

AIR CLEANING DATA

18. IS AIR CLEANING EQUIPMENT PROVIDED?	19. TYPE OF AIR CLEANING EQUIPMENT (If any) TO BE USED (Cyclone, Cloth Arrestor, Etc.)
[X] YES [ ] NO	Cyclone and Baghouse (Reverse Air Cleaning)

20a. AIR CLEANER MANUFACTURER	20b. MODEL OR CATALOG NO.	20c. SIZE
Cyclone: Dustex, Inc. Baghouse: Flex-Kleen, Inc.	Cyclone: 28-100S-32 Baghouse: 84-CT-54	Cyclone: 2'8" Dia. x 8'0" Long Baghouse: 6'0" Dia. 14'3" Long

21. MAXIMUM PRESSURE DROP THROUGH AIR CLEANER AT OPERATING CONDITIONS ("W.G.) Cyclone: 5" Baghouse: 7"

FAN DATA (If more than one fan system is shown on plans, each fan should be numbered and described)

22. FAN NO.	23. MFR.'S NAME	FAN TYPE	DESIGN	SIZE
10	New York Blower Co.	Centrifugal	Material Handling	192

24. MFR.'S RATING: RPM	CFM	S.P. (In. water)	B.H.P.	MOTOR H.P.	25. FAN CONDITION
3130	3650	16"	15.9	20	[X] New [ ] Reconditioned [ ] Existing

26. DESIGN REQUIREMENTS: CFM	S.P. (In. water)	27. FAN INLET DIAMETER	28. FAN OUTLET DIAMETER OR SIZE
3225	14"	12 Inches	12 x 13½ Inches

DIMENSIONS OF UNITS EXHAUSTED (Identify on plan by letter; use separate sheet if necessary)

29. UNIT LETTER ON PLAN	30. DESCRIPTION (Examples: grinding wheel, belt, tank, booth)	31. SIZE (Wheel diameter & thickness, belt width, tank dimensions)	32. OPERATION AND/OR CONTAMINANT (Examples: brass polishing, vapor degreasing, caustic dipping at 180°, chromium plating)	33 BRANCH DIAMETER
A.	1 Ea. - 3 Spout "St. Reais" Bag Packer	See enclosed drawing	Packing Dry Cement (Powder) into 25 lb. bags Note: Joint Cement Product Contains 5% Asbestos	See Enclos Drawin

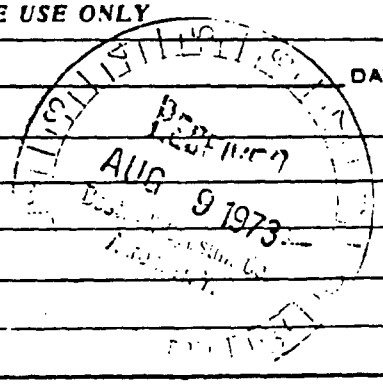
34. SIGNATURE OF PERSON SUBMITTING PLANS AND THIS APPLICATION George Turner, George Turner, Project Engineer

35. DATE SUBMITTED August 6, 1973

SPACE BELOW FOR OFFICE USE ONLY

[ ] APPROVED [ ] DISAPPROVED EXAMINED BY _____ DATE _____

REMARKS _____



FILE FOR FAN NO. _____ CHECKED BY _____ DATE _____

SGP 0021914

Division of Industrial Hygiene
Engineering Section

EXHAUST SYSTEM PLAN

PLAN NO.
DATE REC'D. / /
FEE REC'D.

FILING INSTRUCTIONS - ONE COMPLETED COPY OF THIS FORM MUST BE FILED FOR EACH FAN SYSTEM IN THE EXHAUST PLANS BEING SUBMITTED. Forward exhaust system plans IN TRIPLICATE, together with one completed copy of this form for each fan system, to the Engineering Section of the Division of Industrial Hygiene at one of the following Department of Labor Offices. Plans for exhaust systems to be installed in the counties of Cattaraugus, Chautauqua, Erie, Genesee, Livingston, Monroe, Niagara, Ontario, Orleans, Wayne, Wyoming and Yates should be sent to: 2447 SHERIDAN DRIVE, TONAWANDA, N.Y. 14150. Plans for exhaust systems to be installed in counties other than those listed above, should be submitted to: 80 CENTRE STREET, NEW YORK, N.Y. 10013.

IMPORTANT: Effective June 1, 1963, the Industrial Commissioner is required by section 204-a of the Labor Law to charge a FEE FOR THE EXAMINATION OF EXHAUST PLANS. Please forward with the plans a check or money order payable to the Industrial Commissioner, in accordance with the following fee schedule FOR EACH FAN SYSTEM:

CATEGORY A

"Simple single booths and enclosures, such as spray booths; canopy hoods; dilution, general and natural draft ventilation systems".

Design CFM	Fee
less than 5,000	$10
5,000 or more	20

CATEGORY B

All systems other than category A.

Design CFM	Fee
less than 250	$10
250 or more but less than 1,000	20
1,000 or more but less than 5,000	30
5,000 or more but less than 10,000	40
10,000 or more	50

1. FIRM NAME
Georgia-Pacific Corporation

2. MAILING ADDRESS
900 S.W. 5th Avenue, Portland, Oregon 97204

3. PLANT LOCATION (Street and Number, City, Town, Village; County)
Bloomingdale Road, Akron, Erie County, New York 14001

4a. PLANT REPRESENTATIVE TO BE CONTACTED REGARDING EXHAUST SYSTEM PLANS — 4b. TITLE
George Turner — Project Engineer

5. NUMBER OF IN-PLANT EMPLOYEES AT THE ABOVE PLANT LOCATION: TOTAL 135 MALE 131 FEMALE 4
6. NO. OF EMPLOYEES AT OPERATIONS OR MACHINES 70

7. AUTHORIZED AGENT (if any) SUBMITTING PLANS (Eng., Designer, Consulting Firm, Etc.) LETTER OF AUTHORIZATION MUST ACCOMPANY PLANS
None

8. BUSINESS ADDRESS OF AGENT
--

9. NO. OF FAN SYSTEMS SHOWN ON PLAN (Fan Systems Should Be Numbered) One (1)
10. SUBMITTED FOR COMPLIANCE WITH INDUSTRIAL CODE RULE NO. 10NYCRR-80

FAN SYSTEM NO. 10 AMOUNT OF FEE ENCLOSED None *

GENERAL DATA * $30.00 previously sent for this system

11. LOCATION OF SYSTEM
a. BUILDING Joint Cement Manufacturing — b. FLOOR one
c. DEPARTMENT Bag Packing — d. NUMBER OF FLOORS IN BLDG. one

12a. IS PROPOSED INSTALLATION NEW? [X] YES [ ] NO
12b. ADDITION TO OR RECONSTRUCTION OF EXISTING SYSTEM [ ] YES [X] NO

13. DOES THIS PLAN AMEND PREVIOUSLY SUBMITTED PLAN? [X] YES [ ] NO
IF YES, GIVE PREVIOUS PLAN NO. AND AMOUNT OF FEE PAID BPA-218-73 ($30.00)

14. IS THIS INSTALLATION TO COMPLY WITH ORDERS OR SPECIFIC RECOMMENDATIONS ISSUED BY THIS DEPARTMENT? [X] YES [ ] NO
IF YES, GIVE DATE OF ISSUANCE October 27, 1972

15. IS DISCHARGE OF SYSTEM TO BE RECIRCULATED TO THE WORKROOM? [ ] YES [X] NO
("Discharged Air Which Contains Dangerous Air Contaminants Shall Not Be Recirculated." - Rule 18-8.5)

16 DISCHARGE POINT: [ ] ABOVE ROOF [ ] OUT OF WINDOW [X] THROUGH SIDE WALL [ ] OTHER
20 FEET TO NEAREST FIRE ESCAPE OR EXIT XXXXXXXXXXXX 5 FEET TO NEAREST WINDOW

17. MAKE-UP AIR, EQUAL IN VOLUME TO THAT EXHAUSTED, TO BE SUPPLIED BY
Natural Draft
17a. MEANS FOR HEATING MAKE-UP AIR
None

SGP 0021915

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF AIR RESOURCES
BUREAU OF AIR QUALITY CONTROL
41 STATE STREET
ALBANY, NEW YORK 12207

ENVIRONMENTAL ANALYSIS REPORT – SUMMARY OF SOURCES

For completion by applicant (in triplicate)

Use one copy of this form as a cover sheet for each copy of the Environmental Analysis Report submitted in triplicate

Report No.

BAQC Assign.

1. Name of firm or owner Georgia-Pacific Corporation

2. Address of installation Bloomingdale Road, Village of Akron, Erie

3. Person to contact in reference to this submission George Turner, Project Engineer

Name 900 S.W. 5th Avenue
Portland, Oregon 97204
Address

4. Proposed Environmental Rating(s)

Emission Point No.	Process, Exhaust or Ventilating System	Proposed Env. Rat.	Emission Point No.	Process, Exhaust or Ventilating System	Proposed Env. Rat.
Not Assigned	Bag Packer, Joint Cement Manufacturing				

Continue on reverse side for listing of proposed ER's.

5. Date August 6, 1973 6. Signature George Turner 7. Title Project Engineer

For completion by field representative

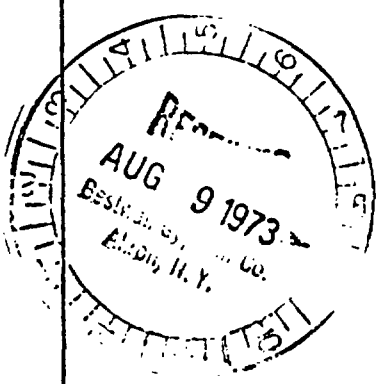
I recommend (acceptance) (denial) of the proposed environmental rating(s)

Remarks

SGP 0021916

8. Date 9. Signature 10. Title

oint No.	Ventilating System	ER	Point No.	Ventilating System	ER



0 S.W. Fifth Avenue Portland, Oregon 97204 503/222 5561

August 6, 1973

Mr. F. C. Johns
New York State Department of Labor
Division of Industrial Hygiene
2447 Sheridan Drive
Tonawanda, New York 14150

Subject: BPA-218-73 Bag Packer Dust Collection System - Joint Cement, Akron, New York Gypsum Plant, Fan System No. 10

Dear Mr. Johns:

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If additional details or documentation is required, please feel free to contact me at the Portland office.

Sincerely,

George Turner

George Turner
Project Engineer
Gypsum Division

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cc: Mr. I. A. Hoekstra - Erie County, New York
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Emissions: (40 Lbs/Hr) (0.001) = 0.04 Lbs/Hr

5. Air or gas flow rate

If cyclic, SCFM/cycle _____; hrs/cycle _____; cycles/yr

If continuous, SCFM 3650; hrs/day 20; days/yr 340 (Average)

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a. gas temperature at point of discharge: 70° F.

b. inside dimensions of outlet 12 in. x 13½ in. or _____ in. diameter

c. height above ground 14'6" ft.

7. Fuel (complete if fuel used as a process constituent) "Not Used"

a. Coal (Type) Anthracite____; Bituminous____; lbs/hr.____ %Sulfur by Wgt.____

b. Oil (Grade) 2____ 4____ 5____ 6____ GPH_____ %Sulfur by Wgt._____

c. Gas (Type) MFD____; Nat.____; _____CFH; _____BTU/CF

8. Is this a new or existing source? New

9. If existing, has an environmental rating been certified for this emission source?

Not Applicable

10. If yes, give "E" number assigned_____

SGP 0021919