

FILE NAME: Georgia Pacific (GP)

DATE: 1972 Oct 27

DOC#: GP127

DOCUMENT DESCRIPTION: Memo RE State Noise & Dust Survey with
Results and Violation Notice



GEORGIA-PACIFIC

INTERDEPARTMENTAL COMMUNICATION

TO: Mr. E. B. Hollingsworth
FROM: J. D. Rauch
SUBJECT: STATE NOISE AND DUST SURVEY

DATE: October 27, 1972

LOCATION: Wilmington

LOCATION: Akron

cc: Mr. John DiLorenzo - Portland
Mr. C. W. Lehnert - Tigard R & D

On 8/18, 9/13, and 9/20/72 we had a New York State Inspector here for dust and noise testing in our Joint System and Plaster Packing Departments. This survey was conducted at the request of the New York State Factory Safety Inspector.

I have attached a copy of their results. As you can see we have no problem with the noise level in either department or the dust level in the Plaster Packing Department. However, they have reported excessive asbestos dust in the Joint System area. The State's Recommendations appear on page 4 of the report.

As you know, Mr. DiLorenzo's office is actively engaged in work to correct this problem. However, we must now submit plans to the State for approval prior to installation.

At this time this is only a recommendation and not a citation, so there is no time limit or fine involved.

But, the State of New York is making O.S.H.A. inspections for 1972, so this will no doubt end up in an O.S.H.A. file somewhere. I believe it would be to our best interest to file our plans to correct this matter as soon as possible. This may avoid a future problem should O.S.H.A. decide to check into this matter.


J. D. R.

att.

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STATE OF NEW YORK
DEPARTMENT OF LABOR
DIVISION OF INDUSTRIAL SAFETY SERVICE
BUREAU OF FACTORIES AND MERCANTILE ESTABLISHMENTS



Georgia Pacific Corp
Blenningdale Road
Town of Newstead, N.Y. (Alden 14001)

NOTICE OF VIOLATION AND ORDER TO COMPLY

DATE *10/27/72*

OCCUPANCY *Factory*

NOTICE TO BUILDING:
TENANT ☐ OWNER ☒ AGENT ☐

REFER TO	CAPTION: <i>WVW-SPCC-16-7-2</i>
	PREMISES: <i>FED 10-46001-00-20-014</i> <i>Blenningdale Road</i> <i>Town of Newstead, N.Y. (Alden 14001)</i>

You are hereby ordered to comply with the following requirements of the Labor Law and the Industrial Code Rules at the above premises. These requirements must be complied with IMMEDIATELY unless otherwise specified herein.

Item #32 - Sec. 200.1 - Now null & void as result of N.Y. State Dir. of
ST.15 (M) Industrial Hygiene investigation 4/13-20/72 - RSC
DEF 129-72. Copy of report attached for Dept of Labor.

As a result of the investigation by the N.Y. State Dept. of Labor
Dir. of Ind. Hyg. Dir. the following order is issued.

Item 7 - CR 12-1.6 (a)(2) Lockout system of local exhaust
system provided to remain or control dangerous
air contaminants generated or released by mixing
operations involving asbestos in the Joint System
Operations.

The plans & specifications in triplicate for approval as
required by Rules 8.5 and do not install, change or
vary machinery or operations for any of the purpose
specified herein until the plans are approved by the
Dept of Labor. Please submit plans in triplicate to
the N.Y. Dept of Labor, Dir. of Ind. Hyg. - 2447 Sholden
Longwood, N.Y. 14150.

Requirements explained to *Jack Kusch*
Title: *Supervisor*
Cliff Ward
INSPECTOR
FOR THE COMMISSIONER

NOTE: "Sec" refers to section of the Labor Law; "C" refers to the Industrial Code Rules; "R" refers to Title 12 of the Official Compilation of Codes, Rules and Regulations of the State of New York. An asterisk "*" indicates that the order is based on requirements of the State Building Construction Code or the standards accepted thereunder.

SEE REVERSE FOR THE ADDRESSES OF THE DIVISION

DIVISION OF INDUSTRIAL HYGIENE
REPORT ON FIELD INVESTIGATION

TO: DIVISION OF INDUSTRIAL SAFETY SERVICE, BUREAU OF ☒ F&M ☐ CONSTRUCTION ☐ BOILERS
ATTN: CHIEF, E. T. Beaudott SUPV. INSP. E. P. Elert

DISTRICT 16

1. FIRM NAME C. J. Pacific Corporation	2. DATE OF REPORT 10/11/72	3. DATE OF VISIT 8/10, 9/13 & 9/20/72	4. DATE OF REQUEST 3/22/72
5. ADDRESS 1000 N. Main Road, Town of Newstead 14001	6. I.H. ASSGT. NO. 100-123-72	7. B.S.A. PET. NO.	
8. INVESTIGATED BY Norman Lamotte, Ind. Hygiene Engineer	9. OFFICIAL(S) INTERVIEWED Mr. Edward Foley, Office Manager Mr. William Hammer, Plant Engineer		
10. REPORT			

In accordance with your request, the above firm was visited to investigate possible causes of noise resulting from the Joint Systems operations, possible air contaminants resulting from P & S operations, and possible exposure to excessive asbestos from the Joint Systems operations.

I. INVESTIGATION OF THE JOINT SYSTEM OPERATIONS, BUILDING 230

RECEIVED
DEPARTMENT OF LABOR
BUFFALO, N. Y.

OCT 25 1972

DIVISION OF INDUSTRIAL HYGIENE

The workroom, which measures about 120' X 60' X (25' to 10') high, consists of the east end of a large masonry and steel building. The east wall of the workroom contains a large sliding door, a man-door, and 3 operable windows. There are 2 openings in the west wall which lead to the warehouse area. The north and south walls contain no openings. General mechanical ventilation is provided by a 30" diameter exhaust fan located in the east wall at a height of 10'. Additional ventilation is provided by 2 gravity roof ventilators.

MATERIAL AND OPERATIONS

The dry mix joint compound for wallboard is prepared in a 40' X 60' area located in the northeast corner of the workroom.

The process involves the preparation of about sixteen 4000 pound dry mixes during the 8 hour day shift. Each mix is comprised of 75% or more limestone with amounts of asbestos ranging from 220 to 320 pounds and mica up to 640 pounds, depending on the product specified. Minor amounts of other materials are also included.

Except for the limestone which is added from enclosed bins, two mixermen load the other ingredients into a waist high 5' X 7' hopper. The crysotile asbestos, contained in 100 lb. bags, and the mica, in 50 lb. bags, are dropped on bag slashers in the hopper, the contents dumped, and the empty paper bags removed from the area. A vibrating screen empties the hopper to an enclosed conveyor. The hopper is provided with a canopy hood at a height of 30" at one end and 40" at the other end, and is partially enclosed.

The subsequent operations, conducted in closed systems, include a ribbon mixer, bucket elevators, and a St. Regis packer. The mixer and elevators are provided with local exhaust systems.

OCT 10 1972

DIVISION OF

The St. Regis equipment automatically fills multiwall bags with the correct weight of product material. A packer operator slips a pasted-valve tuck-in-sleeve bag over a feed spout, one of three such outlets. The filled bag is dropped on a horizontal conveyor which rises the bags at waist height to a stacker operator. The stacker operator, located also 15' from the loading station, removes the bags from the conveyor and loads them on pallets. The pallets, when filled, are transported to the warehouse by a fork lift truck operator. About 2500 bags are produced during an 8 hour shift.

The aforementioned mixing operations are provided with an alternate duct system which directs the material to the wet mixing area in the southwest corner of the workroom. There a further enclosed mixing with the addition of water yields a paste product. This product is loaded into either 5 gallon or 1 gallon cans, the covers crimped, and the cans palletized for warehousing. Four men are usually assigned to this area.

TESTS AND OBSERVATIONS

It was noted that noise in the workroom was most evident in the mix preparation area (vibrating screen in the hopper) and at the dry mix milling station (St. Regis packer and adjacent auxiliary equipment). Noise level measurements were obtained in these areas and are noted on the attached Sound Pressure Level Survey form.

II. PLASTER OPERATIONS, BUILDING 212

METHODS, EQUIPMENT AND OPERATIONS

The plaster operations are conducted in a three story corrugated steel structure, Building 212. The upper floors of the building are relegated to the storage, mixing, and weighing of materials to produce the plaster mix, which is essentially gypsum. The first floor is used for product bagging and shipping.

The above operations are conducted by a four man crew about 4 hours per day, once or twice a week, producing about 400 tons per month of bagged material. Before the advent of dry wall and wallboard, 12,000 tons per month were produced at this facility.

The mixing and conveying operations on the upper floors are conducted in essentially closed systems. The multi-wall bagging operations take place on the first floor. Bates bag loading machines automatically fill the bags to the desired weight. At the No. 1 Bates Packer, two workers pack 50 pounds of molding plaster into side opening bags. The filled bags are manually placed on hand trucks and removed to a shipping area. At the No. 3 Bates Packer, lightweight plaster is bagged by one worker. The bagged product is conveyed to the adjacent shipping area.

TESTS AND OBSERVATIONS

It was noted that dust was only evolved at the bagging operations.

Air tests were taken in the breathing zone of the workers while conducting bagging operations. The concentration of dust was found to be 35 MPPCF at the No. 1 Bates Packer, 71 MPPCF at the No. 3 Bates Packer. Analysis of ledge dust in both packer areas disclosed a free silica content of less than 5%.

No local exhaust ventilation is provided for the Bates Packers. Workers at the No. 1 wore cartridge type dust respirators; the No. 3 unit operator did not wear any respiratory protective equipment.

III. ASBESTOS EXPOSURE - JOINT SYSTEMS OPERATIONS

WORKROOM, EQUIPMENT AND OPERATIONS

The workroom, equipment, and operations are described in Section I. of this report.

TESTS AND OBSERVATIONS

Air tests were taken in the breathing zone of the workers during joint systems dry mix operations. The following results were obtained:

<u>Sample Location, Breathing Zone</u>	<u>Asbestos Concentration</u>
1. Packer	41 fibers/ml (greater than 5 microns in length)
2. Stacker	17 fibers/ml (" " 5 " " ")
3. Mixerman	26 fibers/ml (" " 5 " " ")

In addition, general air samples were taken at two locations in the dry mix area. The concentration of asbestos was found to be 31 fibers/ml (greater than 5 microns in length) at a point about 20' west of the packer and 12' northwest of the stacker. The concentration of asbestos was found to be 26 fibers/ml (greater than 5 microns in length) adjacent to the hopper (mixerman's work station). The latter test was taken when no mix preparation was being done.

It was noted that the mixerman wore respirators during the actual mixing operations. Neither the packer nor the stacker wore respirators. It was stated that the packer and the stacker switch jobs about every 350 bags of production.

The floors, equipment, ledge surfaces, etc. in the 40' X 60' dry mix working area were covered with dust. The dust layer was constantly being built up during the various unit operations, primarily from the heavy concentration of dust generated by the bag filling operation.

CONCLUSIONS

1. Exposure to noise resulting from the Joint Systems operations, as performed at the time of the visit, would not tend to be detrimental to the hearing of the workers.
2. The P & S Building 212 operations, as performed at the time of the visit, would not tend to be hazardous to the health of the workers.
3. Exposure to asbestos from the Joint Systems operations would be hazardous to the health of the workers in the dry mix area.

RECOMMENDATIONS

Re items 1 and 2 above - none.

RECEIVED DEPT. OF HEALTH DIVISION OF OCCUPATIONAL SAFETY AND HEALTH OCT 20 1972 DIVISION OF OCCUPATIONAL SAFETY AND HEALTH
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Item 3 above - That the exhaust system for the mix hopper be redesigned and reconstructed and that sufficient local exhaust ventilation be provided for the bagging operations, both in accordance with 12 NIOSH 12 and 12 NIOSH 13. That plans for the reconstruction be submitted in triplicate to this Division prior to installation.

JACOL

Albert J. Posso, M.D.
Industrial Hygiene Physician II

SOUND PRESSURE LEVEL SURVEY

1. SOUND LEVEL in Decibels re 0.0002 dynes per sq. cm.

LOCATION - OPERATION	WEIGHTING NETWORKS 20-20,000 cps (Hz)		PREFERRED CENTER FREQUENCIES, cycles per second (Hz)							
	dBA	dBC	63	125	250	500	1000	2000	4000	8000
JOINT SYSTEMS - BUILDING 230										
DRY MIX AREA - BAGGING										
1. ST. REGIS PACKER WORK STATION	82	89	83	83	81	80	76	72	73	72
* 2. " " " "	93	94								
3. " " " "	79	87	85	83	79	76	74	70	69	6
- MIXING										
4. MIX HOPPER AREA - VIBRATING										
SCREEN ON HOPPER FULL	89	94	86	85	80	78	82	85	78	70
* 5. AS ABOVE, STARTS AFTER 15 minutes OF THE 20 MINUTE BATCH OPERATION.	94	101								

REMARKS:

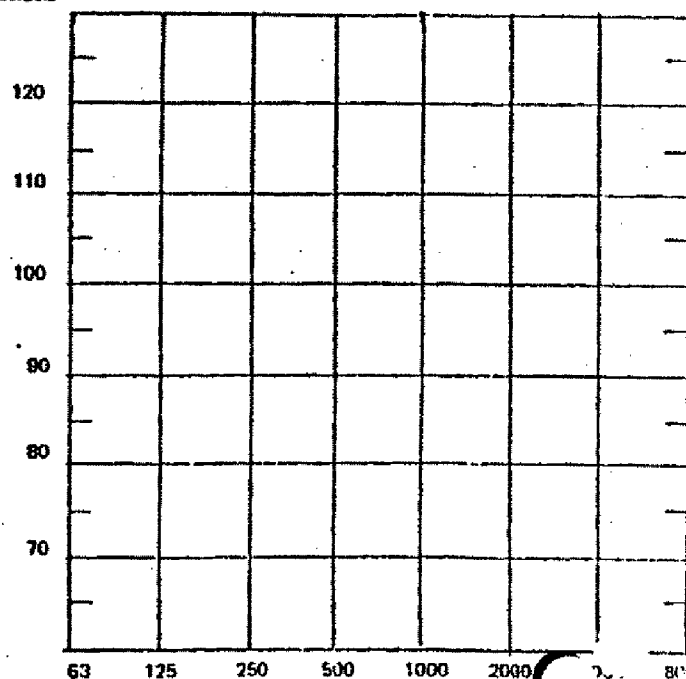
* ONE SECOND DURATION EVERY 30 SECONDS (AVERAGE)
DUE TO AIR RELEASE NOISE - DURING BAG
FILLING

** BACKGROUND

*** INTERMITTENT OPERATION; BATCH OPERATION
OPERATOR REMAINS AWAY FROM AREA AFTER
STARTING VIBRATION

4. ASSIGNMENT NO. BEF-129-72	5. W. C. B. CASE NO.	6. DATE OF VISIT 8/18/72
7. NAME OF ESTABLISHMENT GEORGIA PACIFIC CORPORATION		
8. ADDRESS OF ESTABLISHMENT BIRMINGHAM ROAD TN OF NEWSTEAD 14001		
9. CLAIMANT NAME	10. INSTRUMENTS USED BEK 2203 / 1613	
11. ENGINEER H. H. BRUNOTTE		

Decibels



DIVISION OF INDUSTRIAL HYGIENE

REPORT ON FIELD INVESTIGATION

TO: DIVISION OF INDUSTRIAL SAFETY SERVICE, BUREAU OF ☒ F&M ☐ CONSTRUCTION

ATTN: CHIEF, E. T. Deaudette

SUPV. INSP. E. P. Elliott

RECEIVED
OCT 11 1972

DISTR

1. FIRM NAME

Georgia Pacific Corporation

2. DATE OF REPORT

10/11/72

3. DATE OF VISIT

9/13 & 9/20/72

4. DATE OF

7. D.E.A.

3. ADDRESS

12500 Dunwoody Road, Town of Norcross 30051

6. INVESTIGATED BY

Norman Brunette, Ind. Hygiene Engineer

9. OFFICIAL(S) INTERVIEWED

Mr. Edward Foley, Office Manager
Mr. William Hammer, Plant Engineer

DATE-10-20-72

10. REPORT

In accordance with your request, the above firm was visited to investigate possible excessive noise resulting from the Joint Systems operations, possible air contamination resulting from P & S operations, and possible exposure to excessive asbestos from the Joint Systems operations

1. NOISE IN THE JOINT SYSTEMS OPERATIONS, BUILDING 230

U.S. DEPARTMENT OF LABOR
BUFFALO, N. Y.

WORKING

OCT 25 1972

INDUSTRIAL COMPLAINT
 The workroom, which measures about 120' x 60' x (25' to 40') high, is a one-story east end of a large masonry and steel building. The east wall of the building contains a large sliding door, a man-door, and 3 operable windows. There are 2 openings in the west wall which lead to the warehouse area. The north and south walls contain openings. General mechanical ventilation is provided by a 30" diameter exhaust fan mounted in the east wall at a height of 10'. Additional ventilation is provided by gravity roof ventilators.

MANUFACTURE AND OPERATIONS

The dry mix joint compound for wallboard is prepared in a 40' x 60' area located in the northeast corner of the workroom.

The process involves the preparation of about fifteen 1000 pound dry mixes during the 8 hour day shift. Each mix is comprised of 75% or more limestone with various amounts ranging from 220 to 320 pounds and silica up to 640 pounds, depending on the product specified. Minor amounts of other materials are also included.

Except for the limestone which is added from enclosed bins, the limestone and other ingredients into a vertical high 5' x 7' hopper. The crystalline asbestos, contained in 100 lb. bags, and the silica, in 50 lb. bags, are dropped on bag asbestos in two layers the contents dumped, and the empty paper bags removed from the area. A vibrating screen separates the hopper to an enclosed conveyor. The hopper is provided with a capacity located at a height of 30" at one end and 40" at the other end, and is partially enclosed.

The subsequent operations, conducted in closed systems, include a ribbon mixer, bucket elevators, and a St. Regis packer. The mixer and elevators are provided with local exhaust systems.

0012 01312

The St. Regis equipment automatically fills multiwall bags with the correct wet product material. A packer operator slips a pasted-valve tuck-in-sleeve bag over a spout, one of three such outlets. The filled bag is dropped on a horizontal conveyor carries the bags at waist height to a stacker operator. The stacker operator, located 15' from the loading station, removes the bags from the conveyor and loads them on pallets. The pallets, when filled, are transported to the warehouse by a fork lift truck operator. About 2500 bags are produced during an 8 hour shift.

The aforementioned mixing operations are provided with an alternate dust system directs the material to the wet mixing area in the southwest corner of the workroom. a further enclosed mixing with the addition of water yields a paste product. This product is loaded into either 5 gallon or 1 gallon cans, the covers crimped, and the cans palletized for warehousing. Four men are usually assigned to this area.

TESTS AND OBSERVATIONS

It was noted that noise in the workroom was most evident in the mix preparation (vibrating screen in the hopper) and at the dry mix filling station (St. Regis packer and adjacent auxiliary equipment). Noise level measurements were obtained in these areas and are noted on the attached Sound Pressure Level Survey form.

II. P & S OPERATIONS, BUILDING 212

WORKROOMS, EQUIPMENT AND OPERATIONS

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The above operations are conducted by a four man crew about 4 hours per day, once twice a week, producing about 400 tons per month of bagged material. Before the advent of dry wall and wallboard, 12,000 tons per month were produced at this facility.

The mixing and conveying operations on the upper floors are conducted in essential closed systems. The multi-wall bagging operations take place on the first floor. Bates bag loading machines automatically fill the bags to the desired weight. At the No. 1 Bates Packer, two workers pack 80 pounds of molding plaster into side opening bags. The filled bags are manually placed on hand trucks and removed to a shipping area. At the No. 3 Bates Packer, lightweight plaster is bagged by one worker. The bagged product is conveyed to the adjacent shipping area.

TESTS AND OBSERVATIONS

It was noted that dust was only evolved at the bagging operations.

Air tests were taken in the breathing zone of the workers while conducting bagging operations. The concentration of dust was found to be 55 MPPCF at the No. 1 Bates Packer, 7 MPPCF at the No. 3 Bates Packer. Analysis of lodge dust in both packer areas disclosed a free silica content of less than 5%.

No local exhaust ventilation is provided for the Bates Packers. Workers at the No. 1 unit wore cartridge type dust respirators; the No. 2 unit wore...

III. ASBESTOS EXPOSURE - JOINT SYSTEM'S OPERATIONS

WORKROOM, EQUIPMENT AND OPERATIONS

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In addition, general air samples were taken at two locations in the dry mix area. Concentration of asbestos was found to be 31 fibers/ml (greater than 5 microns in length) at a point about 20' west of the packer and 12' northwest of the stacker. The concentration of asbestos was found to be 26 fibers/ml (greater than 5 microns in length) adjacent to the hopper (mixerman's work station). The latter test was taken when no mix preparation was being done.

It was noted that the mixermen wore respirators during the actual mixing operation. Neither the packer nor the stacker wore respirators. It was stated that the packer and stacker switch jobs about every 350 bags of production.

The floors, equipment, ledge surfaces, etc. in the 40' X 60' dry mix working area covered with dust. The dust layer was constantly being built up during the various unit operations, primarily from the heavy concentration of dust generated by the bag filling operation.

CONCLUSIONS

1. Exposure to noise resulting from the Joint Systems operations, as performed at the time of the visit, would not tend to be detrimental to the hearing of the workers.
2. The P & S Building 212 operations, as performed at the time of the visit, would not be hazardous to the health of the workers.
3. Exposure to asbestos from the Joint Systems operations would be hazardous to the health of the workers in the dry mix area.

RECOMMENDATIONS

Re items 1 and 2 above - none.

RECEIVED
DIVISION OF OCCUPATIONAL SAFETY AND HEALTH
WASHINGTON, D.C.

OCT 20 1972

100-147-14

- 4 -

Georgia Pacific Corp.

Re Item 3 above - That the exhaust system for the mix hopper be redesigned and reconstructed and that sufficient local exhaust ventilation be provided for the bagging operations, both in accordance with 12 NYCRR 12 and 12 NYCRR 18. That plans for the aforementioned be submitted in triplicate to this Division prior to installation.

AJR:SCC
HB

Albert J. Roscoe, M.D.
Industrial Hygiene Physician II

LOCATION - OPERATION	WEIGHTING NETWORKS 20-20,000 cps (Hz)		PREFERRED CENTER FREQUENCIES cycles per second							
	dBA	dBC	63	125	250	500	1000	2000		
JOINT SYSTEMS - BUILDING 230										
DRY MIX AREA - BAGGING										
1. ST. KEEL'S PACKER WORK STATION	82	89	83	83	81	80	76	72		
* 2. " " " "	93	94								
* 3. " " " "	79	87	85	83	79	76	74	70		
- MIXING										
4. MIX HOPPER AREA - VIBRATING										
SCREEN ON HOPPER FULL	89	94	86	85	80	78	82	85		
5. AS ABOVE, STARTS AFTER 15 MINUTE										
OF THE 2 MINUTE BATCH OPERATION	94	101								

REMARKS:

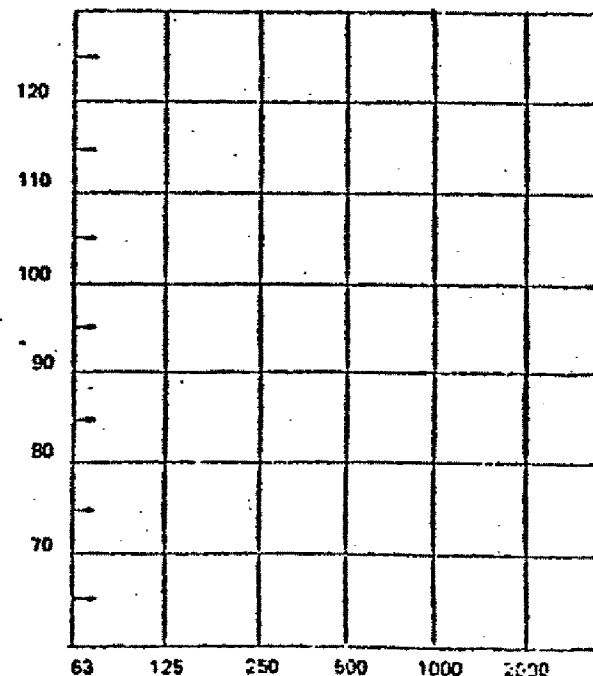
* ONE SECOND DURATION EVERY 30 SECONDS (AVERAGE)
DUE TO AIR RELEASE NOISE - DURING BAG
FILLING

* * BACKGROUND

* * * INTERMITTENT OPERATION, BATCH OPERATION
OPERATOR REMAINS AWAY FROM AREA AFTER
STARTING MIXER

ASSIGNMENT NO.	I. W. C. B. CASE NO.	5. DATE OF VISIT
REF-129-72		8/18/72
NAME OF ESTABLISHMENT		
GEORGIA PACIFIC CORPORATION		
ADDRESS OF ESTABLISHMENT		
BLOOMINGDALE ROAD TN OF NEWSTEAD 14001		
CLAIMANT NAME	11. INSTRUMENTS USED	
ENGINEER	B&K 2203/1613	
J. J. BRUNOTTE		

Decibels



3. FREQUENCY, cycles per second (Hz)