



GEORGIA-PACIFIC

INTERDEPARTMENTAL COMMUNICATION

DATE October 27, 1972

TO: Mr. E. B. Hollingsworth

LOCATION: Wilmington

FROM: J. D. Rauch

LOCATION: Akron

SUBJECT: STATE NOISE AND DUST SURVEY

PLAINTIFF'S EXHIBIT

GP-1445

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.

k

SGP 0022016

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



Genesee Pacific Corp
Bloomington Road
Tn of Newstead N.Y. (Akm 14001)

NOTICE OF VIOLATION AND ORDER TO COMPLY

DATE *10/27/72*

OCCUPANCY *Factory*

NOTICE TO BUILDING:
TENANT ☐ OWNER ☒ AGENT ☐ LESSEE ☐

REFER TO
CAPTION: *WV-SPC-16-7-2*
PREMISES: *FED ID# 46001-00-30-014*
Bloomington Road
Tn of Newstead, N.Y. (Akm 14001)

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. 2001 - New rule & code as result of N.Y. State Div of
57.5 (M) Industrial Hygiene investigation 4/13-20/72 - report
DEF 129-72. Copy of report attached for Dept of Interior.

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

Item #1 - CR 12-1.6 (a)(2) Lockout system of local exhaust
system provided to remove or control dangerous
air contaminants generated or released by mixing
operations involving asbestos in the Joint System
Operations.

File plans & specifications in triplicate for approval as
required by Rules 5.5 and do not install, change or alter
any machinery or apparatus for any of the purposes
specified herein until the plans are approved by the
Dept of Labor. Please submit plans in triplicate to
the N.Y. Dept of Labor, Div of Ind. Hyg. - 2447 Sheridan
Avenue, N.Y. 14150

Requirements explained to *Jack Rausch*
Title: *Gen. Mgr*
Wm J 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

INSPECTOR'S COPY

TO: DIVISION OF INDUSTRIAL SAFETY SERVICE, BUREAU OF ☒ F&M ☐ CONSTRUCTION ☐ BOILERS
ATTN: CHIEF, E. T. Denhart SUPV. E. P. Ehler DISTRICT 16

1. FIRM NAME <u>Crown Pacific Corporation</u>	2. DATE OF REPORT <u>10/11/72</u>	3. DATE OF VISIT <u>8/12, 9/13 & 9/20/72</u>	4. DATE OF REQUEST <u>3/22/72</u>
5. ADDRESS <u>1100 Maple Road, Town of Newstead 14001</u>	6. LH. ASST. NO. <u>DL-120-72</u>		7. B.S.A. PET. NO.
8. INVESTIGATED BY <u>Herman Hamotte, Ind. Hygiene Engineer</u>		9. OFFICIAL(S) INTERVIEWED <u>Mr. Edward Foley, Office Manager</u> <u>Mr. William Hamner, Plant Engineer</u>	
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 contaminants resulting from P & S operations, and possible exposure to excessive asbestos from the Joint Systems operations

I. NOISE IN THE JOINT SYSTEMS CONDITIONS. BUILDING 230

RECEIVED
DEPARTMENT OF LABOR
BUFFALO, N. Y.

OCT 2 1972

The workroom, which measures about 120' X 60' X (25' to 40') high, is situated on one story 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 mounted 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 330 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 chrysotile 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 captures 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 INDUSTRIAL HYGIENE

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
1. DRY MIX AREA - BUILDING 230										
2. DRY MIX AREA - BAGGING										
3. ST. RICHES PACKER WORK STATION	82	89	83	83	81	80	76	72	73	72
4. " " " "	93	94								
5. " " " "	79	87	85	83	79	76	74	70	69	68
6. " " " "										
7. " " " "										
8. " " " "										
9. " " " "										
10. " " " "										
11. " " " "										
12. " " " "										
13. " " " "										
14. MIX HOPPER AREA - VIBRATING SCREEN ON DECK FEED	89	94	86	85	80	78	82	85	78	76
15. AS ABOVE, STARTS AFTER 15 MINUTE 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 PROCESS

ASSIGNMENT NO.

S.W.C.B. CASE NO.

G. DATE OF VISIT

3EF-129-72.11 8/18/72

NAME OF ESTABLISHMENT

GEORGIA PACIFIC CORPORATION

ADDRESS OF ESTABLISHMENT

BACCHANGDALE ROAD IN OF NEWSTEAD 14001

CLAIMANT NAME

11. INSTRUMENTS USED

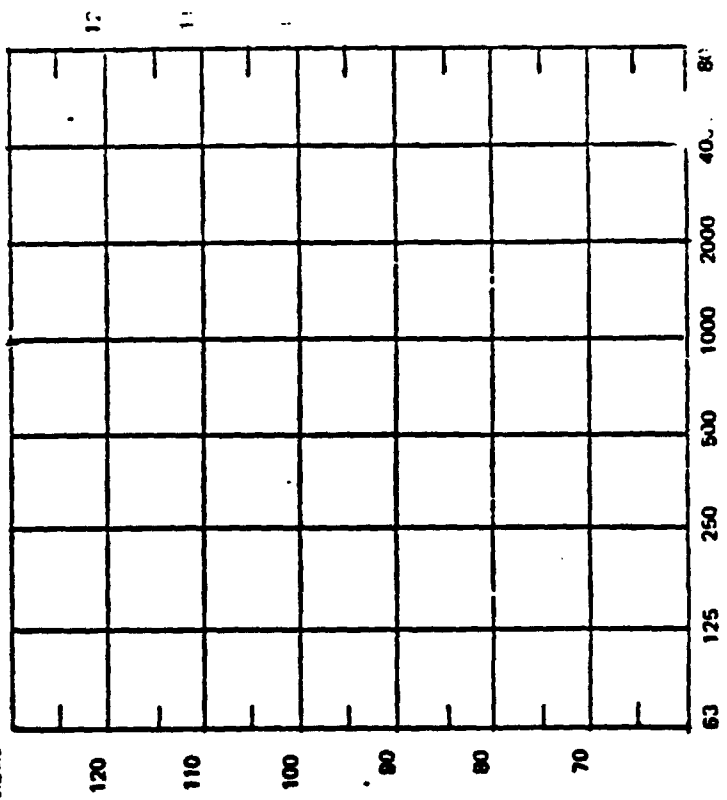
BEK 2203/1613

ENGINEER

H.H. BRUNOTTE

SGP 0022019

Decibels



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 carries the bags at waist height to a stacker operator. The stacker operator, located about 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 filling station (St. Regis packer and adjacent auxiliary equipment). Noise level measurements were obtained in those areas and are noted on the attached Sound Pressure Level Survey form.

II. P & S OPERATIONS, BUILDING 212

PROCESS, 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 20 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. 2 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, 7 MPPCF at the No. 2 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

it wore cartridge type dust respirators; the No. 2 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	28 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 mix 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 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.

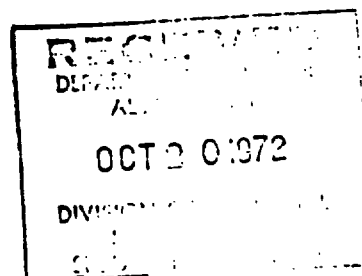
The floors, equipment, ledge surfaces, etc. in the 40' X 60' dry mix working area were covered with dust. The dust layer was constantly being built up during the various unit operations, primarily from the heavy concentration of dust generated by the bag filling operation.

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.



SGP 0022021

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 NIOSH 12 and 12 NIOSH 13. That plans for the aforementioned be submitted in triplicate to this Division prior to installation.

AJ:SCB

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

DIVISION OF INDUSTRIAL HYGIENE
REPORT ON FIELD INVESTIGATION

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

ATTN: CHIEF INSP. **E. F. Deaudett**

SUPV. INSP. **E. P. Ehlert**

DISTRICT 1

1. FIRM NAME Georgia Pacific Corporation	2. DATE OF REPORT 10/11/72	3. DATE OF VISIT 6/10, 9/13 & 9/20/72	4. DATE OF REQ 3/20/72
5. ADDRESS 1200 Angulo Road, Town of Newstead 14001	6. LH. ASSGT. NO. 100-120-72		7. U.S.A. PET. N
8. INVESTIGATED BY Norman Ramette, 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 excessive 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. NOISE IN THE JOINT SYSTEMS OPERATIONS, BUILDING 230

WORKROOM

The workroom, which measures about 120' X 60' X (25' to 40') high, comprises the one story 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 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 2 gravity roof ventilators.

EQUIPMENT 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 1000 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 mixmen load the other ingredients into a waist high 5' X 7' hopper. The cryolite asbestos, contained in 100 lb. bags, and the mica, in 50 lb. bags, are dropped on bag slanters 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 20 1972

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 carries the bags at waist height to a stacker operator. The stacker operator, located about 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 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

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 conveying 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 60 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 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. 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	28 fibers/ml (" " 5 " " ")

In addition, general air samples were taken at two locations in the dry mix area. A 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.

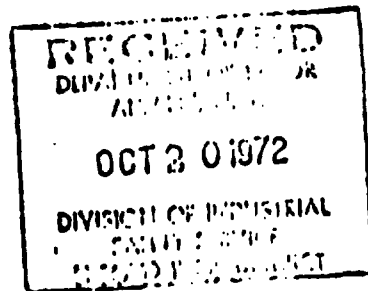
CONCLUSIONS

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.

SGP 0022025



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 NIOSH 12 and 12 HHCRR 18. That plans for the aforementioned be submitted in triplicate to this Division prior to installation.

AJR:COL
RM

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

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	
JOINT SYSTEMS - BUILDING 230										
DRY MIX AREA - BAGGING										
1. ST. REELS PARKER WICK STATION	82	89	83	83	81	80	76	72	73	
* 2. " " "	93	94								
* 3. " " "	79	87	85	83	79	76	74	75	69	
- MIXING										
4. MIX NEPPER AREA - VIBRATING										
SCISSOR ON WOODS FILL	89	94	86	85	80	78	82	85	78	
5. AS ABOVE, STARTS AFTER 15 MINUTE										
OF TWO 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
SIGNAL WIS-370

4. ASSIGNMENT NO.

5. W. C. CASE NO.

6. DATE OF VISIT

REF-129-72

8/18/72

7. NAME OF ESTABLISHMENT

GEORGIA PACIFIC CORPORATION

8. ADDRESS OF ESTABLISHMENT

BLDG. BOUNDARY ROAD TN OF NEWSTOWN 14001

9. CLAIMANT NAME

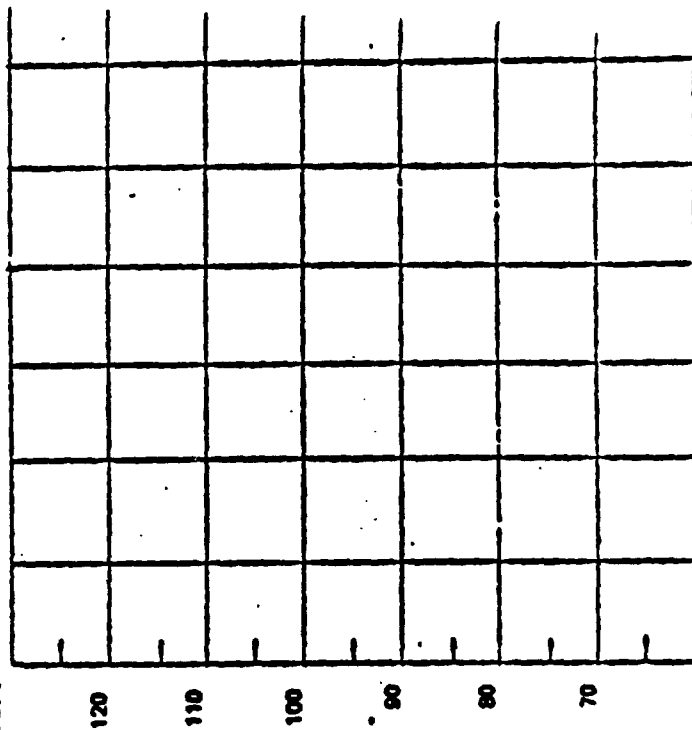
11. INSTRUMENTS USED

ENGINEER

BEK 2203/1613

H. A. BRUNOTTE

Decibels



2. FREQUENCY, cycles per second (Hz)