W. F. Fischer
C. E. Grote

August 31, 1960

Atmospheric Hygiene Studies
Manville Plant
January - June, 1960

Attached is a report covering the Industrial Hygiene sampling activity during the period January thru June, 1960. An asterisk in columns "Station Number," "Particle Median or Average" and "Fibre Median or Average" indicates the count to be above maximum allowable concentration and warrants attentive control.

Photographs showing specific locations of the various sampling stations are available in our files.

I would call your particular attention to the Summary Sheet. You will note a comparison for the last three six-month reporting periods, with respect to the number of stations over maximum allowable concentration against the overall total number of stations.

You will also note a Plant layout accompanying this report. The approximate locations of all stations which were over maximum allowable concentration as of June 30, 1960 are noted. It does not necessarily mean that every one of these stations were checked during this current six-month survey period.

L. Hemerda

cc:
C. L. Sheckler - w/3 attachments


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SUMMARY OF ATMOSPHERIC HYGIENE SURVEYS — MANVILLE PLANT

Report Date: June 30, 1960

| Location | *No. of Sample Stations | January, 1960 - thru - June, 1960 | | | June, 1957 - thru - Dec., 1959 | |
|---|---|---|---|---|---|---|
| | | No. of Stations Sampled | **No. of Counts Taken | ***No. of Counts Analyzed by M Lab. | **No. of Counts Taken | ***No. of Counts Analyzed By J-M Lab. |
| **PACKINGS & FRIC. MAT'LS PLANT** | | | | | | |
| Textiles | 226 | 54 | 172 | 172 | 1445 | 1115 |
| Packings | 41 | 33 | 109 | 109 | 112 | 67 |
| Friction Materials | 50 | 39 | 100 | 100 | 217 | 151 |
| Moulded Packing | 42 | 28 | 77 | 77 | 183 | 179 |
| Rubber | 63 | 15 | 41 | 41 | 341 | 312 |
| Total | 422 | 169 | 501 | 501 | 2298 | 1824 |
| **INDUSTRIAL INSULATIONS PLANT** | | | | | | |
| Pipe Covering | 51 | 2 | 3 | 3 | 189 | 164 |
| Thermobestos | 69 | 29 | 96 | 96 | 445 | 274 |
| Thermaflex | 6 | 1 | 3 | 3 | 15 | 15 |
| Refractory Felts | 17 | 11 | 26 | 23 | 49 | 48 |
| Linderna Warehouse | 11 | 3 | 1 | 1 | 26 | 26 |
| Min K | 18 | 10 | 24 | 24 | 93 | 52 |
| Total | 172 | 56 | 159 | 153 | 809 | 579 |
| **PIPE PLANT** | | | | | | |
| Transite Pipe | 85 | 11 | 43 | 43 | 428 | 252 |
| Total | | | | | | |
| **BUILDING PRODUCTS PLANT** | | | | | | |
| Paper Mill | 12 | 3 | 4 | 4 | 43 | 43 |
| Rock Wool | 23 | - | - | - | 69 | 69 |
| Floor Tile | 28 | 13 | 34 | 32 | 112 | 112 |
| Flexboard | 21 | 17 | 51 | 51 | 95 | 86 |
| Asphalt Roofing | 41 | 2 | 7 | 7 | 185 | 185 |
| Asphalt & Preformed | 16 | - | - | - | 70 | 61 |
| Rigid Shingles & Corr. Trans. | 78 | 59 | 196 | 196 | 384 | 322 |
| Planning & Sched. (P1 & P2) | 6 | - | - | - | 18 | 18 |
| Total | 225 | 104 | 290 | 290 | 977 | 896 |
| **E.& R. DEPARTMENT (SALVAGE)** | 1 | - | - | - | 3 | 3 |
| **INDUS. RELATIONS (MEDICAL DEPT.)** | 1 | - | - | - | 1 | 1 |
| **MANVILLE PLANT TOTAL** | 906 | 340 | 911 | 913 | 4416 | 3555 |

*Number of Sample Stations include Dust, In-Plant Air Return, Vapor, Lead, Mercury, Radiation and Carbon Monoxide Stations.
**Counts include Dust, In-Plant Air Return, Vapor, Lead, Mercury, Radiation and Carbon Monoxide Stations.
***Atmospheric Hygiene Sample Analysis by our J M Industrial Hygiene Laboratory was started July 1, 1957.

L. Hemerda


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| Location | Station Number | Present Status | No. Counts | Particle Count Range | Particle Med.or Avg. | Fibre Count Range | Fibre Med.or Avg. |
|---|---|---|---|---|---|---|---|
| | | | INDUSTRIAL HIGIENICS PLANT | | | | |
| **PIPE COVERING** | | | | | | | |
| Stacking pallets on floor. | *S 3-C | Eval. | 2 | 32.4 - 58.9 | *A 40.7 | 2.4 - 5.5 | *A 4.0 |
| Stacking pallets on dryer carts. | *S 6-C | " | 1 | 65.5 | *A 65.5 | 3.6 | *A 3.6 |
| **THERMOFLEX and MIN K** | | | | | | | |
| On material mixing platform. | *S107-C | Eval. | 2 | 4.9 - 12.7 | *A 8.8 | 0.1 - 0.1 | A 0.1 |
| Self Sustaining Mold. | *S108-C | " | 3 | [illegible] | *A 38.9 | 0.0 - 0.0 | A 0.0 |
| South side of sander. | *S111-C | " | 3 | [illegible] | *A [illegible] | 0.9 - 1.9 | *A 1.3 |
| 4 ft. west of #1 Press. | S112-C | " | 3 | 0.7 - 0.9 | M 0.9 | 0.0 - 0.0 | A 0.0 |
| East side of De Walt Saw. | S114-C | Follow-Up. | 2 | 2.1 - 3.7 | A 2.9 | 0.0 - 0.0 | A 0.0 |
| Underneath Grinder. | *S116-C | " " | 2 | 5.4 - 13.9 | *A 9.7 | 0.0 - 0.1 | A 0.1 |
| #2 Press. | S119-C | Prelim. | 3 | 1.6 - 2.9 | M 2.8 | 0.0 - 0.0 | A 0.0 |
| #1 Press. | *S120-C | " | 3 | 3.7 - 5.6 | *M 5.4 | 0.0 - 0.1 | M 0.1 |
| #3 Press. | *S121-C | " | 2 | 5.8 - 6.6 | *A 6.2 | 0.0 - 0.1 | A 0.1 |
| #4 Press. | *S122-C | " | 1 | 10.6 | *A 10.6 | 0.1 | A 0.1 |
| East side of Power Winder. | S123-C | " | 3 | 0.8 - 1.0 | M 1.0 | 0.0 - 0.0 | A 0.0 |
| **THERMOBESTOS** | | | | | | | |
| Beginning of Block Packing Conveyor. | S 1-E | Eval. | 3 | 2.7 - 3.5 | A 3.1 | 0.1 - 0.1 | A 0.1 |
| 30 ft. from beginning of Block Packing Conveyor. | S 2-E | " | 3 | 3.4 - 5.2 | A 4.1 | 0.1 - 0.1 | A 0.1 |
| Feed-in Conveyor on #2 T.L. Trimmer. | S 3-E | " | 3 | 3.6 - 5.2 | A 4.3 | 0.1 - 0.2 | M 0.2 |
| Feed-in Conveyor on #2 T.L. Trimmer. | S 3-E | " | 2 | 2.0 - 4.0 | A 3.0 | 0.0 - 0.1 | A 0.1 |
| Take-off on Saw Conveyor on #2 T.L. Trimmer. | *S 4-E | " | 3 | 4.4 - [illegible] | *M 5.6 | 0.2 - 0.4 | A 0.3 |
| Take-off on Starch Conveyor on #2 T.L.Trimmer. | S 5-E | " | 3 | 2.0 - 2.5 | M 2.4 | 0.1 - 0.2 | A 0.1 |
| Feed Conveyor on #1 S.L. Trimmer. | S 6-E | " | 3 | 2.4 - 4.7 | A 3.5 | 0.2 - 0.9 | A 0.5 |
| Take-off on Saw Conveyor on #1 S.L. Trimmer. | *S 7-E | " | 3 | 7.9 - 10.7 | *M 10.2 | 0.4 - 0.4 | A 0.4 |
| Take-off on Starch Conveyor on #1 S.L.Trimmer. | S 8-E | " | 3 | 2.1 - 3.5 | A 3.3 | 0.0 - 0.0 | A 0.0 |
| Feed Conveyor on #4 S.L. Trimmer. | S 9-E | " | 3 | 1.1 - 3.4 | A 2.8 | 0.0 - 0.1 | M 0.1 |
| Feed Conveyor on #4 S.L. Trimmer. | S 9-E | " | 4 | 1.7 - 3.6 | A 3.1 | 0.0 - 0.1 | M 0.1 |
| Feed Conveyor on #4 S.L. Trimmer. | *S 9-E | " | 3 | 3.0 - [illegible] | *M [illegible] | 0.0 - 0.0 | A 0.0 |
| Take-off on Saw Conveyor on #4 S.L. Trimmer. | S 10-E | " | 2 | [illegible] | A [illegible] | 0.0 - 0.1 | M 0.1 |
| Take-off on Starch Conveyor on #4 S.L.Trimmer. | S 11-E | " | 3 | [illegible] | A [illegible] | 0.0 - 0.0 | A 0.0 |
| #2 Yates V-36 Bandsaw. | S 12-E | " | 3 | 4.3 - [illegible] | A 4.9 | 0.1 - 0.2 | A 0.1 |
| #1 Bandsaw. | *S 13-E | " | 3 | [illegible] | *A [illegible] | 0.4 - 0.5 | M 0.5 |
| #3 Do-All Bandsaw. | *S 14-E | " | 3 | [illegible] | *M 10.3 | 0.4 - 0.5 | A 0.4 |
| Conveyor Operator's desk. | S 16-E | " | 3 | [illegible] | M 1.9 | 0.0 - 0.0 | A 0.0 |

| Location | Station Number | Present Status | No. Counts | Particle Count Range | Particle Med.or Avg. | Fibre Count Range | Fibre Med.or Avg. |
|---|---|---|---|---|---|---|---|
| **THERMOBESTOS (cont'd.)** | | | | | | | |
| Wire brushing Thermobestos. | *S 20-E | Eval. | 3 | 18.5 - 34.9 | *A 24.1 | 0.5 - 1.5 | *A 1.0 |
| Northeast corner of Bramwell Feeder. | S 29-E | Follow-Up | 3 | 2.2 - 3.1 | A 2.6 | 0.1 - 0.3 | A 0.2 |
| East of #5 Autoclave. | S 36-E | Eval. | 3 | 0.1 - 0.7 | M 0.5 | 0.0 - 0.0 | A 0.0 |
| Between #8 & #9 Autoclaves. | S 37-E | " | 1 | 0.7 - 0.9 | M 0.9 | 0.0 - 0.0 | A 0.0 |
| #17 Thermobestos Press. | S 38-E | " | 2 | 0.8 - 1.1 | A 1.0 | 0.0 - 0.0 | A 0.0 |
| Between #20 & #21 Thermobestos Presses. | S 39-E | " | 3 | 0.7 - 1.0 | A 0.8 | 0.0 - 0.0 | A 0.0 |
| #1 Pre-Mixer Hopper. | S 40-E | Follow-Up | 3 | 1.4 - 2.5 | M 2.1 | 0.0 - 0.1 | M 0.1 |
| #2 Pre-Mixer Hopper. | S 41-E | " " | 3 | 0.4 - 1.0 | M 0.9 | 0.0 - 0.0 | A 0.0 |
| Unloading Thermo. from carts to buggies. | *S 42-E | Eval. | 3 | 5.4 - 17.7 | *A 10.6 | 0.2 - 0.7 | A 0.4 |
| E. side of Autoclaves above dryers. | S 44-E | " | 3 | 0.1 - 0.3 | A 0.2 | 0.0 - 0.0 | A 0.0 |
| 5 ft. west of Autoclaves #1 & #2. | S 45-E | " | 3 | 0.2 - 0.9 | A 0.5 | 0.0 - 0.0 | A 0.0 |
| 15 ft. from beginning of Block Packing Conveyor. | *S 46-E | " | 3 | 8.2 - 11.0 | *M 10.8 | 0.6 - 0.9 | M 0.9 |
| Southernmost metal on Jacket Table. | S 63-E | Prelim. | 3 | 1.0 - 2.2 | M 2.0 | 0.0 - 0.0 | A 0.0 |
| Middle metal on Jacket Table. | S 64-E | " | 3 | 1.8 - 2.3 | A 2.0 | 0.0 - 0.0 | A 0.0 |
| **REFRACTORY FELT** | | | | | | | |
| Felt Inspector's area. | S 1-RF | Eval. | 3 | 1.1 - 1.9 | M 1.7 | Not Asbestos | |
| Jet Operator's booth at #1 Furnace. | S 2-RF | " | 3 | 2.7 - 3.5 | A 3.1 | " " | |
| Floor scale on the second floor. | *S 3-RF | " | 3 | 6.2 - [illegible].3 | *A 30.4 | " " | |
| Mixer on the second floor. | *S 4-RF | " | 3 | 8.6 - 14.4 | *M 14.3 | " " | |
| At the Felt take-off area. | S 5-RF | " | 2 | 1.4 - 4.4 | A 2.9 | " " | |
| Aeration Chamber. | S 6-RF | " | 1 | 17.0 | A 17.0 | " " | |
| Reclaimed Felt Feeder. | S 7-RF | " | 3 | 6.9 - 8.8 | A 7.2 | " " | |
| Binder Feeder. | S 8-RF | " | 3 | 1.[illegible] - 2.1 | M 2.0 | " " | |
| Near the felting take-off area. | S 9-RF | " | 2 | 2.3 - 3.5 | A 2.9 | " " | |
| South side of the Bandsaw. | S 10-RF | " | 3 | 6.0 - 8.9 | A 7.5 | " " | |
| Mainin Sabre Saw. | S 11-RF | Prelim. | 2 | 2.0 - 7.8 | A 4.9 | " " | |
| **FINISHED WAREHOUSE** | | | | | | | |
| Loading boxcar with bags #450 Cement. | *S 4-FW | Eval. | 3 | 13.7 - 69.1 | *A 41.4 | 0.2 - 1.7 | *A 1.0 |
| Loading boxcar with Thermobestos Block. | *S 10-FW | Prelim. | 3 | 4.3 - 13.5 | *M 11.0 | 0.1 - 0.8 | M 0.4 |
| Fire Felt Packaging Area. | S 11-FW | " | 2 | 0.7 - 0.8 | A 0.8 | 0.0 - 0.0 | A 0.0 |



C. L. Sheckler and Others on a Mandatory Respirator Program at the Manville Plant (1960), Hemerda to Fischer an...
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ATMOSPHERIC HYGIENE STUDIES - JANUARY, 1960 thru JUNE, 1960

Legend:

| | | |
|---|---|---|
| Asterisk | - | Stations requiring control. |
| Preliminary | - | Study to identify problem areas. |
| Evaluation | - | Study pending completion of corrective action. |
| Follow-Up | - | Study subsequent to completion of corrective action. |
| Audit | - | Periodic study to check control. |
| Med./Avg. | - | Median or average of counts taken - whichever is higher. |



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SUMMARY SHEET — June 30, 1960

INDUSTRIAL HYGIENE PLANT

| Department | June, 1959 Total No. Stations | June, 1959 Stations Over MAC | December, 1959 Total No. Stations | December, 1959 Stations Over MAC | June, 1960 Total No. Stations | June, 1960 Stations Over MAC | Date of Last Complete Survey |
|---|---|---|---|---|---|---|---|
| Pipe Covering | 50 | 10 | 51 | 10 | 51 | 10 | July, 1960 |
| Thermobestos | 66 | 30 | 67 | 28 | 69 | 16 | April, 1960 (Wet End (partially |
| Thermoflex | 5 | 0 | 5 | 0 | 6 | 0 | February, 1960 |
| Refractory Felts | 13 | 2 | 17 | 3 | 17 | 2 | June, 1960 |
| Min K | 12 | 7 | 14 | 8 | 18 | 12 | February, 1960 |
| Finderne Warehouse | 9 | 3 | 9 | 3 | 11 | 5 | May, 1960 (Half (completed |
| TOTAL | 155 | 52 | 163 | 52 | 172 | 45 | |

Remarks:

Pipe Covering - 10 stations over M.A.C.

4- Conditional stations, cleaning dust collectors. Each station averages approx. ½ - 1 hr. per week.

2- Sealing Compound Mixers.

2- Pallets, loading and unloading.

1- Door #11, west side - dump scrap buggies.

1- Williams Crusher and Dagger.

Thermobestos - 16 stations over M.A.C.

In the Finishing Room.

Refractory Felts - 2 stations over M.A.C.

Around Mixer, 2nd floor - high silica content.

Min. K - 12 stations over M.A.C.

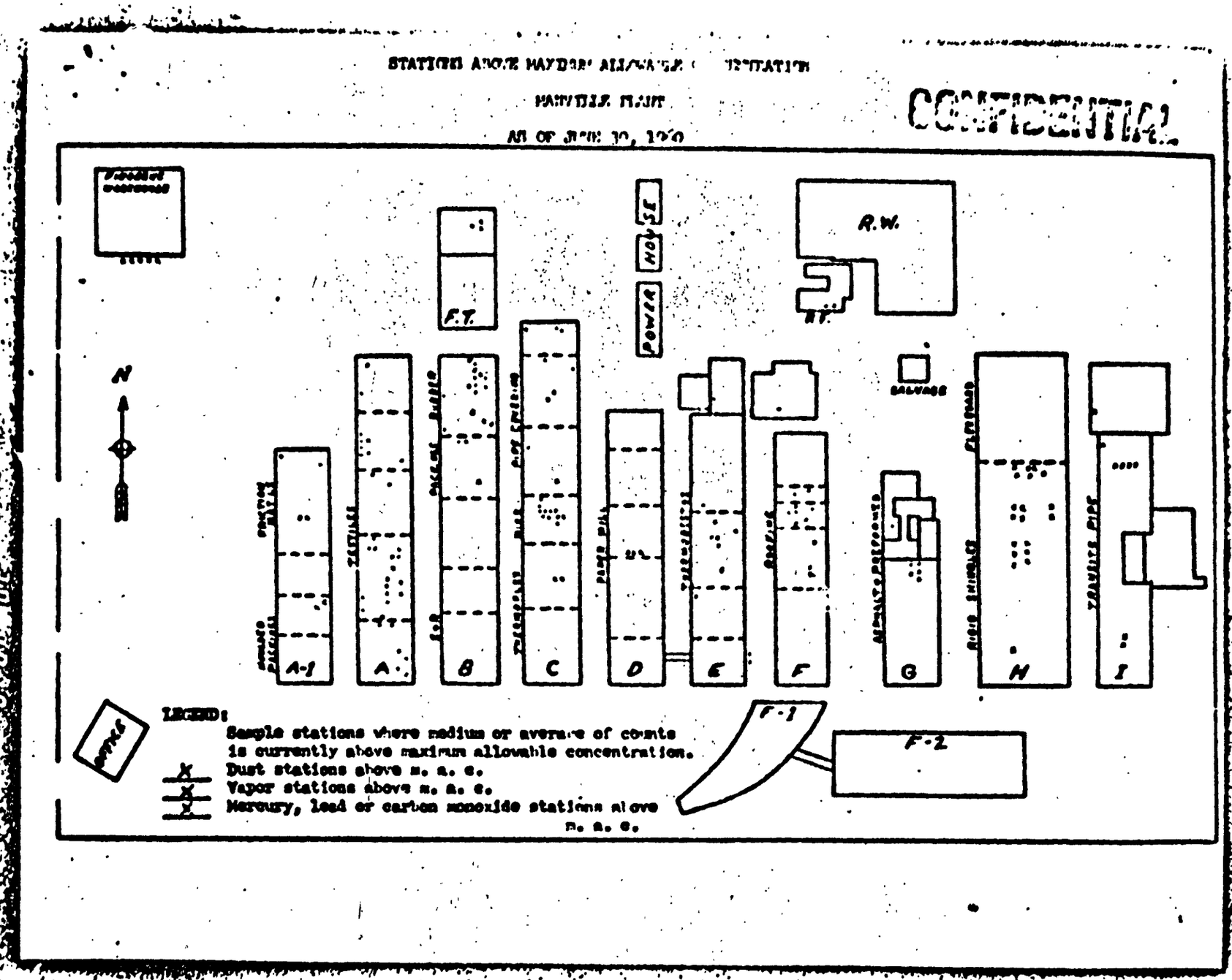
Scattered over entire operation.

Finderne Ware. - 5 stations over M.A.C.

These stations center around the unloading of box cars. While there are only 3 unloading doors in the warehouse, it is necessary to set up 5 different sample stations because of the various materials and ingredients tested for.

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