

The RUBEROID Co.

HYDE PARK, VERMONT 05655

PLAINTIFF'S
EXHIBIT

GF-777

For Attention Mr. H. J. Holloway - So. Bound Brook

Date May 3, 1967

Copy to Messrs. Matthews, Matlin, McGettrick

Reference

Subject DRYER DUST COLLECTOR - VERMONT

This is to bring you up to date on our progress concerning the above.

We have talked with Mr. Lenoir, of Wheelabrator, to confirm cost estimates. It appears the cost would be nearly the same whether we reconditioned our existing unit for one dryer and purchased a new unit for the other or purchased one large unit for both dryers. This would be \$110,000 to \$120,000, excluding any building required to house the unit. This also allows only for exhausting through the Dryer Bldg. roof, as at present. Stacks, to carry the exhaust above the mill roof to prevent fumes from entering the mill bldg. in the summer when windows are open, would be an additional expense.

We visited three of the asbestos producers in Canada to learn what they are doing to control their dryer exhaust.

JM gave us a copy of a report they made to a sub-committee of the Q.A.M.A. (a copy of which is enclosed). As can be seen, they have tried many approaches. I feel some of the tests are not conclusive as there were obvious problems caused by conditions which could have been corrected but were not before the equipment was rejected. For example, Carey is operating multiclones and report fair success. JM possibly did not have the space to properly install them and obtain equalized load on each of the multiclones or did not feel the cost of such installation was justified in relation to the possible final efficiency that could be obtained. On the Dustex unit Hook, JM's dust control engineer, admitted the tests were not conclusive and that they might have been successful if they had used additional heat to prevent condensation.

They are now going to install a wet separator, an AAF Type W Rotoclone on one dryer (20,000 cfm) and a Wheelabrator bag filter on another for full scale tests.

They have high hopes for the Rotoclone because of the simple installation and low water requirements. They feel the exhaust, 0.02 grains/cu.ft. will be acceptable for their requirements. (In the center of the town) They plan to do more research on handling the sludge but at present are considering a vacuum drum filter pre-coated with diatomaceous earth. Discharge of the filter, about 40% solids, will be to their tailings system.

They feel certain the bag filter will work and will definitely operate in acceptable limits. They are concerned about operating and maintenance costs, especially if the units must be kept on stream 100% of the time, in fact spare units may be required for maintenance to obtain 100% on stream operation.

The RUBEROID Co.

HYDE PARK, VERMONT 05655

For Attention Mr. R. J. Holloway - So. Bound Brook

Date May 3, 1967

Copy 16

Reference

Subject

PAGE 2

Lake is operating Wheelabrator bag filters. They do not keep them on stream 100% of the time. They have encountered high operating and maintenance costs and these might be higher if they had to be kept on stream. Maintenance is now scheduled when crews are available and other maintenance work takes precedent. Units are by-passed when not operable.

Carey is operating Multiclone units. Each of three dryers is exhausted thru a bank of 8, about 50" dia., cyclones. They report no problems but do have to occasionally clean the cyclones as condensation occurs at times. We do not have data on the grain loading of the discharge.

From our investigation, we are now considering the following approach to our problem:

1. Replace our 9' dia. cyclones (one on each dryer) with twin cyclones of the JM design. (see attached copies from print)

The JM report gives the discharge at 60 lbs. per hour per twin unit. Hook claimed they obtain as low as 50 lbs. per hour.

I estimate we are now discharging in the order of 300 lbs. per hour from each of our cyclones or 600 lbs. per hour. The 50-80 lb. per hour exhaust (10 dryers = 500 to 800 lbs./hr.) from JM's stacks appeared quite clean (as it probably consists of only the finer particles) and there was no accumulation of dust on the buildings and grounds in the area.

Possibly, we will find 50 lbs. per hour per unit (100 lbs. per hour total) acceptable for our remote location.

The twin cyclones must have a tight air lock. JM also makes them of 1/4" plate and uses no liners to obtain as smooth a surface as possible for flow within the cyclone.

We are handling about the same volume of air and our existing fans should handle the 5" P.D. across the twins.

2. Install a stack or stacks to above the mill roof. (See attached print) This will remove the exhaust sufficiently so the objectionable fumes will not be able to reenter our mill building as they at times do now. It will also help disperse any fine dust so it would not settle around the plant area. JM did report material build up on the inside of their stacks due to condensation. This flakes off and blows out of the stack causing a slight accumulation of these flakes in the surrounding area.

The RUBEROID Co.

HYDE PARK, VERMONT 05655

For Attention Mr. E. J. Holloway - So. Bound Brook

Date May 3, 1967

Copy to

Reference

Subject

PAGE 3

This solution should eliminate all objectionable nuisances from our dryers in the general plant area. It might well be all that would ever be required for control of our dryer exhaust as we are in such a remote area. On the attached map, I have sketched in our approximate property lines. Except for the highway (so called State-Aid road) which runs thru our property North & South about 1/4 mile from the mill, the nearest adjoining property is 1/2 mile from our dryers. The nearest buildings are a little over a mile North and a mile South. The nearest Village is 4 miles away.

3. If, in the future, a cleaner stack exhaust is required, it would seem that another stage of high efficiency cyclones or multicyclones might be satisfactory or, if necessary, some wet separators. The proposed 1st stage of twin cyclones would be beneficial, if not necessary, to any such installation.

We are planning to proceed with cost estimates on the above program and would appreciate your comments and suggestions.

The dust discharged has no value. We probably experience some loss of values now with our present inefficient cyclones. Also these cyclones occasionally plug when a piece of worn lining breaks loose and we lose appreciable values for a short time until the plug is noticed and the problem corrected.

JKL/esc

J. K. Gilmore

(Encl. to Mr. Holloway only)

1. Verifax copy of JMC Report
2. Verifax of Jay Park topo sheet with property roughly outlined - Bridge (Wendell & Town and Hill's) located 20' west of Edin Mills
3. Verifax of Plan, Side & End Elevation of JMC Twin Cyclones from JMC print.
4. Dwg E1-145 with stacks (as per print) proposed - 5' above mill roof) sketched in.