ASBESTOS, P.Q.
Dec. 24, 1932.

GENERAL HEADQUARTERS.
Mr. S.A.Williams, V.P.

DUST COLLECTING EQUIPMENT

Further to your current inquiry, report on local conditions follows -

Since September 1931 nothing has been added to the equipment in the Factory, chiefly because the equipment there meets all practical requirements. Inspection by the Medical Officers of the Quebec Board of Health indicates "a clear ticket." They are well pleased with the interest taken by us in Dust Collection and the devices installed especially in the pipe sawing section.

In the mills some very important improvements have been started and in some cases completed. The Dust Chamber has been lined throughout. The Veloe machines have been equipped with dust tight steel housings. Two graders have been fitted with steel housings. Elevator housings have been improved and an experimental cover has been placed over one of our new gyrating screens, this latter indicates very favorable possibilities.

In the use of respirators, the workmen in the Cement Plant and Dust Shed wear the Rubble Mask. The Electricians also wear this mask when blowing motors. The Mill operators, however, do not find respirators practicable. The Dust in the Mills is evidently less irritating and is more fibrous than in the first named locations, resulting in less need for a respirator and more trouble with the filter clogging when a respirator is used.

An air suction and ventilating system is currently being installed in connection with the sewing machine in the used bag patching room at Storehouse.

As regards prospective program, we have some interesting development in mind.

The indications now are (a) that the gyrating screens can be efficiently covered and that the normal aspirating system will effectively exhaust the dust. In fact the one now covered may be classed 100% satisfactory from a practical standpoint. In addition to preventing the escape of dust into the room, the cover seems to effect a sort of air/[illegible] on all shaking screens obviates the need for hand cleaning and they also can be covered, with probably similar results. (a) If the booster fan were fitted with a larger motor, possibly a 600 H.P. Super-Synchronous would be right both for efficiency and for general power factor improvement, or as an alternative, a large slow speed exhauster fan were placed in the Mill, and, in either case the necessary pipes to the elevator casings Veloe machine and graders were put in, the dust from these machines would be cared for. The overall result should

a in improved fibre aspiration (b) the ball

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be 80% reduction of the dust in the Mills with only the added power represented by the added power for the booster fan or new exhauster fan.

The bagging elevation presents a more difficult problem but I feel sure that the cited low pressure exhausting system could be tied in even there with good results.

CHS/THB. C.H.Shoemaker, V.P.