



JUNE 29TH, 1967

WILSON-ERST-HILL, INC.

Mr. H. WILSON

SMITH & LANTZLER CORP.

Mr. M. LIEFF

U.S. MINERAL PRODUCTS

Mr. FRANK STUMP

Mr. VERHALEN

SUBJECT: DUST EROSION TESTS

GENTLEMEN:

I SPOKE WITH MIKE KOBARAS THIS MORNING, AND HE WAS PLEASED TO REPORT THAT THIS PROCEDURE IS UNDERWAY, AND I WILL INCORPORATE WITHIN THE INFORMATION WHICH HE CURRENTLY HAS. AS SOON AS HE FINISHES THE LAST TWENTY FOUR HOUR RUN ON THE SECOND SAMPLE BEING TESTED, HE WILL WRITE A COMPLETE WRITTEN REPORT. THIS SHOULD BE DONE BY THE LATTER PART OF NEXT WEEK.

I HAD SOME CONCERN ABOUT CHANGE IN HUMIDITY AFFECTING THE WEIGHT OF THE FILTER MATERIAL IN THE DUCT. TO SCIENTIFICALLY ACCOMMODATE FOR THIS, HE HAS TWO FRAMES MADE FOR THE FILTER IDENTICALLY THE SAME AS THE FRAMES, OF COURSE, ARE NOT INVOLVED IN THE WEIGHING AND MERELY SUPPORT THE FILTERING MATERIAL. ONE OF THESE IS HUNG FROM THE CEILING, AND IS SUBJECT TO A CHANGE IN WEIGHT BASED ON AIR HUMIDITY CONDITIONS. THE SECOND, OF COURSE, IS USED IN THE ACTUAL TEST WITHIN THE DUCT. BEFORE WEIGHING THE STUFF FROM THE DUCT, HE WEIGHS THE FILTERING MATERIAL ON THE CONTROL HANGING IN MID AIR. IF THERE IS ANY CHANGE UPWARD OR DOWNWARD IN THE WEIGHT OF THAT FILTER, HE ACCOMMODATES FOR THE SAME CHANGE IN THE WEIGHT OF THE MATERIALS ACCUMULATING ON THE FILTER IN THE DUCT. HE HAS NOW RUN ONE SAMPLE THROUGH THE COMPLETE CYCLE AND THE SECOND THROUGH THREE PHASES OF IT. HE HAS JUST THE LAST TWENTY FOUR HOURS TO TEST. I WILL MAKE UP A TABLE ACCOMMODATING FOR THE INFORMATION SO FAR GATHERED.

THE FIRST SAMPLE WHICH HE TESTED WAS SAMPLE #5, WHICH WAS 1-1/16" THICKNESS AND WAS INDICATED AT 11.4 LBS. PER CUBIC FOOT DENSITY. THE SECOND SAMPLE WAS SAMPLE #1, WHICH IS 1-1/8" THICK, AND HAS A DENSITY OF 10.5 LBS. PER CUBIC FOOT. THE FIGURES FOR THE FIRST TWO

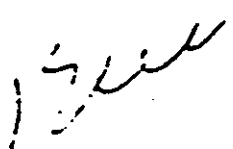
ECTED IN EACH INSTANCE IS BASED ON GRAMS PER SQUARE FOOT:

	<u>SAMPLE #5</u>	<u>SAMPLE #1</u>
FIRST 3 HOURS (PURGE)	.019	.011
SECOND 3 HOURS (TO END OF PURGE)	.001	.006
EXT 18 HOURS (6-24 HOURS)	.007	.001
EXT 24 HOURS (25-48 HOURS)	.003	NOT YET TESTED

IT IS MIKE'S INTENTION TO WRITE THIS UP COMPLETELY WHEN THE TWO SAMPLES HAVE BEEN CONCLUDED, AND THEN TO AWAIT FURTHER INSTRUCTIONS FROM US. HE FEELS THAT, BASED ON WHAT HE KNOWS SO FAR, THAT THE REPRODUCTIBILITY OF THIS IS VERY GOOD, AND IT MIGHT NOT BE NECESSARY TO RUN ADDITIONAL CONTROLLED TESTS, BUT RATHER BEGIN TO RUN TESTS ON EACH OF THE MATERIALS INVOLVED.

VERY TRULY YOURS,

SPRAYED MINERAL FIBRE MFRS. ASSN.


H.L. LEVINE

HL/BB