

CELANESE ENGINEERING RESINS, INC.
Chemcel Plant
Bishop, Texas

To: Mr. R. G. Hilbrich

July 10, 1986

From: J. H. Pritchard

JHP-41-86

AIR SAMPLING FOR ASBESTOS EMISSIONS
DOWNWIND OF THE CER FILLED RESINS BAGHOUSE

ABSTRACT

Area monitoring for asbestos emissions has been conducted downwind of the CER Filled Resins Baghouse during an asbestos run. All samples collected were well below the TWA exposure standard set by OSHA.

Uniterms:

Air
Asbestos
Baghouse
Emissions
Particulate
Sampling
Stack

Distribution:

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Central Files (2)

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INTRODUCTION

Air sampling was recently conducted downwind of the CER Filled Resins Baghouse to determine if asbestos was being released from the baghouse stacks. This was done to determine if actual asbestos emissions need to be quantified by isokinetic stack sampling.

DISCUSSION

Air sampling downwind of the Filled Resins Baghouse was conducted on June 18 and 19, 1986, during an asbestos run on MS409. Significant findings of asbestos in these samples would necessitate isokinetic stack sampling in order to quantify actual asbestos emissions (LMH-209-86).

Of eleven samples collected, nine showed less than the detectable limit of the analytical method (0.01 f/cc - phase contrast microscopy). Two samples showed asbestos concentrations of 0.02 and 0.04 fibers per cubic centimeter. These values are well below the TWA standard set by OSHA. They are also well below the proposed new standard of 0.1 fibers/cc TWA.

Sampling locations, wind speed and direction, and analytical results are attached. Samples were analyzed by National Loss Control Service Corp. (NATLSCO), Long Grove, Illinois.

During the sampling period (3-6.5 hours), no visible emissions were noted. Two sample locations (#1 and #9), thought to be the most likely to capture any particulate emissions, showed no detectable asbestos. Samples #10 and #11, located further from the stacks and only 2-3 feet off the ground, showed low concentrations of asbestos fibers. These two values (0.02, 0.04 f/cc) may be the result of particulate emissions from the filled resins building (BLDG 533), three waste dumpsters nearby, or an unknown dust source.

RECOMMENDATIONS

While no significant asbestos concentrations were found on this occasion, it is felt that this type of sampling should be continued in this area, as well as the Celanex Phase I Baghouse area, when asbestos-filled production resumes.

JHP/erg


J. H. Pritchard

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Filled Resins Baghouse Air Monitoring

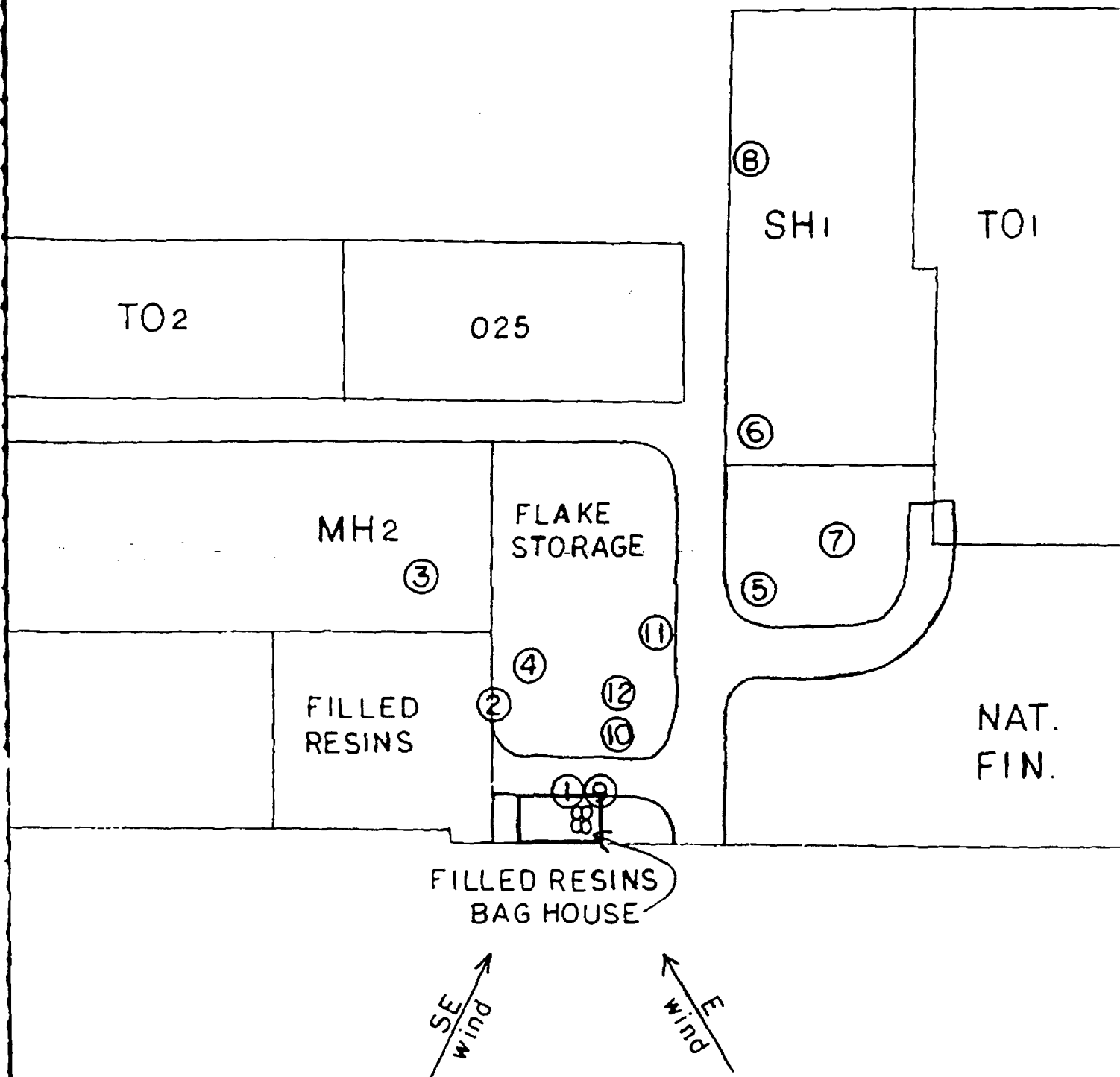
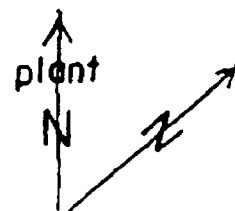
Sample Date	Sample Location ¹	Distance from Stack (ft)	Height from Ground (ft)	Wind Direction	Wind Speed (MPH)	Asbestos Concentration ² (fibers/cc)
6/18/86	1	5	38	E	8	<0.01
6/18/86	2	50	15	E	8	<0.01
6/18/86	3	100	30	E	8	<0.01
6/18/86	4	60	2	E	8	<0.01
6/18/86	5	100	2	SE	12	<0.01
6/18/86	6	150	6.5	SE	12	<0.01
6/18/86	7	100	18	SE	12	Not Analyzed
6/18/86	8	300	2.5	SE	12	<0.01
6/19/86	9	5	38	SE	12	<0.01
6/19/86	10	35	3	SE	12	0.02
6/19/86	11	75	2	SE	12	0.04
6/19/86	12	40	3	SE	12	<0.01

1. See attached diagram.

2. Samples analyzed by NATLSCO, Long Grove, Illinois.

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SAMPLING LOCATIONS
for
ASBESTOS MONITORING



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