



ANALYTICAL RESEARCH LABORATORIES, INC.

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LL 26019

The following test was performed to determine whether a significant amount of asbestos fibers is released to the atmosphere when individual cables are removed from a group of cables that have been sprayed with Flamemastic 71A.

Eleven one inch cables and one cable bundle comprised of 3, one-half inch intertwined cables, were placed in a twelve inch P-W Western cable tray. The cables and tray were twelve feet long and the cables were individually attached to the tray. Flamemaster Corporation personnel sprayed the filled tray top and bottom with a 1/8" thick coating of Flamemastic 71A. The coating was allowed to dry for six days and the dried material had an average thickness of about 1/16". The coated tray and cables were brought to Analytical Research Laboratories for testing.

Asbestos fibers were monitored by three devices during the removal of the cables:

1. Analytical Research Lab., Inc. sampler (ARLI - Stationary) - filter was mounted approximately three feet above the tray and equidistant from the ends of the tray.
2. Analytical Research Lab., Inc. sampler (ARLI - Operator) - filter was attached to the person removing the cables, in his breathing zone.
3. Flamemaster Corp. - MSA portable sampler (FMEN - 1) - filter was held by a second operator at the point where the cable was being removed from the tray. This filter was from six to twelve inches from the Flamemastic 71A coating, as it was breaking loose from the tray and cables. This filter followed the removal of all twelve cables in the manner described above.

The operator removed the cables from the tray individually. Total time to remove the twelve cables was 15.5 minutes.

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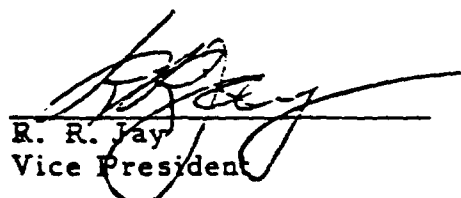
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The filters were examined by the method described in the NIOSH Bulletin HSM 72-10267 (1972) by Mr. K. Inouye of ARLI. The results are as follows:

<u>SAMPLE</u>	<u>SAMPLING RATE</u>	<u>ASBESTOS PARTICLE COUNT</u>
ARLI - Stationary	3 l/min. for 15.5 mins.	0.07/cc.
ARLI - Operator	3 l/min. for 15.5 mins.	0.07/cc.
FMEN-1	2 l/min. for 15.5 mins.	0.15/cc.

CONCLUSION:

The level of airborne asbestos fibers produced during removal of the cables from the Flamemastic 71A coated bundles is significantly less than the existing (5 fiber/cc.) or proposed (.5 fiber/cc.) OSHA limits.


R. R. Jay
Vice President