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DATA ON
LONG TERM POLLUTION EFFECTS
OF
IN-PLACE MONO-KOTE

DATA OBTAINED BY
TABERSHAW-COOPER ASSOC.

OUTSIDE AMBIENT AIR: 0.3-1.4 FIBERS/L.

AIR PASSING THROUGH
PLENUM, THEN FILTER
AND INTO OFFICE AREA:

0.4-1.2 FIBERS/L.

HILTON TOWER, STREET AREA
AMBIENT AIR SAMPLING RESULTS

DATA OBTAINED BY
TAKERSHAW-COOPER ASSOC.

(FIBERS/ML)

	<u>Up-</u> <u>wind</u>	<u>Sensi-</u> <u>tivity</u>	<u>Down-</u> <u>wind</u>	<u>Sensi-</u> <u>tivity</u>
<u>Morning</u>				
Stat'y,	0.024	0.005	0.016	0.016
Moving	0.014	0.005	0.042	0.009
<u>Afternoon</u>				
Stat'y.	0.077	0.009	0.015	0.005
Moving	0.009	0.005	0.005	0.005

DATA FROM TABERSHAW-COOPER ASSOCIATES

HILTON TOWERS AIR SAMPLES
(6/4/70)

<u>Area</u>	<u>Asbestos Fibers</u>	
	<u>Total f/ml</u>	<u>f/ml (> 5 u)</u>
Spray operator's BZ	2.48	2.20
Hed Carrier's BZ	0.49	0.33
Upwind of stage	0.0007	0.0007
Downwind of stage	0.0147	0.0137
Upwind of 35th floor - Background (Prob. non-iso-kinetic flow at filter face; validity as a final measure of fiber background level?)	none seen	none seen
Downwind of 17th floor (four floors below spray operators)	0.0017	0.0017
Mixing operator's BZ	1.61	1.45
Mixing operator's BZ	0.55	0.50
Mixing Area	0.43	0.39

DATA FROM TABERSHAW-COOPER ASSOCIATES

EMBARCADERO CENTER AIR SAMPLES
(5/26/70)

<u>Area</u>	<u>Asbestos Fibers</u>	
	<u>Total f/ml</u>	<u>f/ml (>5u)</u>
Spray operator's breathing zone	7.96	6.54
Spray operator's breathing zone	2.63	2.18
Spray operator's breathing zone (held near back of head to protect face of filter)	3.56	3.18
Stage mover's breathing zone	1.86	1.55
Area near spray (1-50 ft. distant, some direct spray on filter)	0.030	0.028
Background area, 43rd floor (air flow post spray-encrusted drapes)	0.020	0.016
Investigator's breathing zone	0.79	0.60
Mixing operator's breathing zone	0.775	0.710

DATA FROM TADDERMAN-COOPER ASSOCIATES

F&E BUILDING AIR SAMPLES
(5/28/70)

Area	Asbestos Fibers	
	Total f/mi	f/mi (> 5 μ)
Spray operator's BZ	3.32	2.91
Spray operator's BZ	3.15	2.64
BZ of investigator, close to spray stage, walking with hood-carrier	0.16	0.14
Area, $\pm$ 40 feet upwind of single stage (air flow variable)	0.13	0.11
Area, $\pm$ 40 feet downwind of stage (air flow variable)	0.25	0.23
Mixing operator's BZ (wind away from)	0.50	0.42
Mixing operator's BZ (wind toward)	1.42	1.25
Mixing area (between two mixing operators)	1.09	0.93
Mixing area (between two mixing operators)	1.34	1.14
Background, 1 floor below spray operations, most air flow not through the building to filter, but variable.	0.014	0.011
Area, between two stages (current to pump cut off at variable times, total flow through filter uncertain)	0.038	0.035
Area, $\pm$ 30 feet from stages (2)	0.071	0.061
Area, $\pm$ 35 feet from stage, (air flow in area uncertain and variable)	0.36	0.34

AIR FIBER CONTENT MEASUREMENTS
ON MONO-KOTE

THE "MEMBRANE FILTER METHOD OF
ATMOSPHERIC SAMPLING" WAS EMPLOYED

FIRST NATIONAL OMAHA, 10th FLOOR

<u>AREA</u>	<u>FIBERS OVER</u> <u>5 Micron/cc</u>
Spray, 1-3' Overhead and Vertical	0.7
Mix	0.9
Outside	1.1

AIR FIBER CONTENT
MEASUREMENTS ON MONO-KOTE

THE "MEMBRANE FILTER METHOD
OF ATMOSPHERIC SAMPLING" WAS
EMPLOYED

GRUMMAN AIRCRAFTS DATA PROCESSING
RESEARCH CENTER IN BETHPAGE, N.Y.
(Lowrise)

<u>AREA</u>	<u>FIBERS OVER 5 Micron/cc</u>
Spray, 10' Overhead	2.6
Spray, 3' Overhead	1.1
Mix	1.3
General Area	0.4