INDUSTRIAL HYGIENE JOB ANALYSIS

ST0014400

MFG. UNIT	PROCESS	MATERIAL	BLDG.	DATE
	Cell Mfg.	Asbestos	A-1022	10-27-71

JOB CLASSIFICATION

Operator

MATERIALS ENCOUNTERED AND EQUIPMENT OPERATED:

Asbestos - Hand Hoist - Misc. Valves

DESCRIPTION OF OPERATION	FREQUENCY	TOT. TIME IN ~~HOURS~~ Minutes	CONCENTRATI f/cc
* Dumping asbestos from bags into slurry tank		75	1.125
Analyzing slurry tank solution (asbestos & caustic)		75	0.677
Slurry tank operation (dipping cathode)		75	.145
Raking cathodes		100	.048
Breaks, Lunch, misc. duties & change time		155	

TWA : $\frac{E = CaTa + CbTb + CcTc\text{----}TaTn}{480}$

TWA 0.314 f/cc per 8 hour period

* Three operators perform these functions on an alternating basis.

PLAINTIFF'S EXHIBIT
DOW-2617

Form 43650 Printed in U.S.A. 11-69

ST0014400

ST0014401

Table 4. Operator Exposures to Asbestos Fibers, Cell Mfg., A-1022 Building ST0014401

	Dry Asbestos	
	Time Min.	Avg. Conc. (Fibers/cc)
* Dumping asbestos from bags into slurry tank	75	1.125
Analyzing slurry tank solution (asbestos & caustic)	75	0.677
Slurry tank operation (dipping cathode)	75	.145
Raking cathodes	100	.048
Breaks, Lunch, misc. duties & change time	155	

* Three operators perform these functions on an alternating basis.

Time-weighted Average Exposure (fibers/cc)----------0.314 f/cc

** Threshold Limit Value (fibers/cc) 5.0

TWA: $E = \frac{CaTa + CbTb + CcTc-------TaTn}{480}$

** TLV (Threshold Limit Value is the time-weighted average concentration to which most people can be exposed daily without adverse effect.