

TABLE I
CHEMICAL EXPOSURE MONITORING SUMMARY - 1982

CHEMICAL	TYPE OF SAMPLE	NO. SAMPLES	SAMPLE RESULTS			NO. OVEREXPOSURES	"PEL"	COMMENTS
			AVERAGE	RANGE				
610P	Area (A)	7	<0.3 Milligrams/M ³	<0.2 - <0.7		0	None	PEL for DOP = 5 Milligrams/M ³
610P, E54 Mixture	A	2	<1.0 Milligrams/M ³	<0.2 - <1.7		0	None	
AMS	A	20	<50 ppm	<50		0	100 ppm	Detection limit = 50 ppm
Chlorine	A	7	<0.1 ppm, chlorine	<0.1		0	1 ppm	
CTA	A	1	0.5 Milligrams/M ³	0.5		0	None	Any PEL anticipated would probably be greater than 500 ppm (2862 Milligrams/M ³ - per corporate toxicologist.)
CTA	Dosimetry (D)	1	0.2 Milligrams/M ³	0.5		0	None	
DIDP	A	4	<0.2 Milligrams/M ³	<0.2 - <0.4		0	None	
DIDP, DTDp	A	4	<0.2 Milligrams/M ³	<0.2		0	None	
Lead	D	164	<16.6 Micrograms/M ³	<1.5 - <21.0		9		400 Micro- The overexposures occurred to the grams per M ³ /Hours color weigh compound, compounds, of work (but not and a dry blend utility. greater than 50 Micrograms/M ³)
Total Particulates	D	47	2.5 Milligrams/M ³	0 - 36.7		2	15 Milligrams/M ³	
TOTM	A	2	<0.2 Milligrams/M ³	<0.2		0	None	
VCM - Routine	D	1072	<0.7 ppm, VCM	<0.1 - <77.6		112	1 ppm, VCM	Five of the overexposures were at 1.0 ppm.
VCM - Filter Pack Study	D	1	18.5 ppm, VCM	18.5		1	1 ppm, VCM	
VCM - Subcooler Cleanout Study	D	4	5.3 ppm, VCM	3.8 - 7.9		4	1 ppm, VCM	Contractor performed work.
VCM - Fluid Bed Centrifuge Sdy. A	A	2	0.1 ppm, VCM	0.1		0	1 ppm, VCM	
VCM - Reactor Condenser Cleaning Study	D	15	1.2 ppm, VCM	0.1 - 12.1		2	1 ppm, VCM	Steam jets were primary source of VCM.
VCM - Blend Exhaust Study	A	14	6.4 ppm, VCM	0.2 - 38.1		0	1 ppm, VCM	
VCM - VCM Railcar Study	D	32	7.9 ppm, VCM	1.1 - 52.1		10	1 ppm, VCM	Sample time for task only.
Phthalic Anhydride	D	4	<0.1 Milligrams/M ³	<0.1		0	12 Milligrams/M ³	Samples during railcar hookup.

TABLE II
SUMMARY OF 1982 VCM DOSIMETRY RESULTS

<u>Job Categories</u>	<u>No. Samples</u>	$\bar{X}$ <u>Average (ppm)</u>	S <u>Standard Deviation (ppm)</u>	$\% \geq$ <u>1 ppm</u>	<u>Upper Confidence Limit ($\bar{x} + 2 * S$)</u>
Yard Supervisor	11	0.3	0.3	1	0.9
Yard Operator	53	0.3	0.3	1	0.8
Receiving Lead	1	0.2	0	0	0.2
Lead Warehouse Worker	2	0.3	2.0	0	4.2
Warehouse Worker	2	0.5	2.0	0	4.4
Storekeeper	3	0.1	1.4	0	2.9
Plant Manager	1	0.1	0	0	0.1
Plant Superintendent	1	0.3	0	0	0.3
Mechanical Engineer	6	0.4	1.0	1	2.4
Contract Supervisor	2	0.2	2.2	0	4.6
Draftsman	3	0.4	1.6	0	3.5
Process Engineer	10	0.2	0.8	0	1.7
Safety Director	1	0.1	0	0	0.1
Safety Inspector	1	0.2	0	0	0.2
General Helper	34	0.3	0.5	0	1.2
Mechanical Superintendent	7	0.2	1.1	0	2.3
Maintenance Supt. (Mech.)	10	0.2	0.9	0	1.9
Maintenance Supt. (I&E)	6	0.5	1.5	1	3.5
Maintenance Planner	4	0.2	1.9	0	4.0
Maintenance Supervisor	35	0.2	0.6	0	1.3
Instrument Technician	31	0.2	0.6	0	1.4
Electrician	35	2.3	13.1	1	28.5
Maint. Utility Technician	18	0.1	18.5	0	37.2
General Helper	274	0.7	5.3	25	11.3
Painter/Insulator/Carpenter	3	2.4	62.2	1	126.7
Maintenance Helper	47	1.8	13.8	16	29.3
Plant Chemist	1	0.1	0	0	0.1
Lab Supervisor	14	0.2	25.9	0	52.0
Lab Lead Technician	4	0.2	53.9	0	108.0
Dev. Lab Technician	4	0.2	53.9	0	108.1
Lab Technician	9	0.1	33.0	0	66.2
Lab Trainee	3	0.2	66.1	0	132.3
Compound Operations Supt.	1	0.1	0	0	0.1
Compound Operations Supv.	2	0.1	93.4	0	187.0
Compound Shift Supv.	5	0.1	46.7	0	93.6
Dryer Operator	89	0.3	10.0	3	20.4
Dryer Utility	38	0.4	15.4	4	31.2
Vinyl Operations Supt.	6	0.7	42.0	1	84.8
Vinyl Operations Engineer	1	0.1	0	0	0.1
Vinyl Operations Supv.	5	0.2	47.0	0	94.2
Vinyl Shift Supv.	50	0.6	13.5	7	27.5
Vinyl Chief Operator	42	1.6	15.0	16	31.6
Vinyl Lead Operator	104	0.2	9.4	0	19.0
Vinyl Reactor Operator	93	2.1	10.9	34	23.8

TABLE III
SUMMARY OF 1982 LEAD DOSIMETRY RESULTS

<u>Job Categories</u>	<u>No. Samples</u>	<u>$\bar{X}$ Average (Micrograms per M³)</u>	<u>S Standard Deviation (Micrograms per M³)</u>	<u>% $\geq$ PEL</u>	<u>Upper Confidence Limit ($\bar{X} + 2 * S$)</u>
Lab Supervisor	1	1.9	0	0	1.9
Lab Lead Technician	3	2.0	0.1	0	2.1
Dev. Lab Technician	1	2.7	0	0	2.7
Lab Technician	7	2.9	0.5	0	3.9
Lab Trainee	2	1.9	1.2	0	4.3
Dry Blend Compounder	13	6.1	11.4	0	28.9
Dry Blend Utility	13	6.7	14.9	1 $\leftarrow$	36.5
Compound Oper. Supv.	3	2.8	36.4	0	75.7
Compound Shift Supv.	18	3.1	12.6	0	28.3
Compounder	60	12.8	16.3	2 $\leftarrow$	45.5
Compound Operator	21	8.9	28.9	0	66.8
Compound Utility	11	3.9	41.0	0	85.9
Color Weigh Compounder	11	133.1	221.5	6 $\leftarrow$	576.1

TABLE IV

SUMMARY OF 1982 TOTAL PARTICULATE DOSIMETRY RESULTS

<u>Job Categories</u>	<u>No. Samples</u>	<u>$\bar{X}$ Average (Micrograms per M³)</u>	<u>S Standard Deviation (Micrograms per M³)</u>	<u>% $\geq$ PEL</u>	<u>Upper Confidence Limit ($\bar{x} + 2 * S$)</u>
Yard Operator	5	0.3	0.3	0	0.9
Lab Technician	4	0.3	0.6	0	1.4
Dry Blend Utility	20	2.6	5.2	1	23.9
Compounder	4	0.3	13.1	0	26.4
Color Weigh Compounder	11	5.6	12.7	1	31.0
Dryer Operator	3	0.5	28.4	0	57.3