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TABLE II

SUMMARY OF 1982 VCM DOSIMETRY RESULTS

Job Categories	No. Samples	$\bar{X}$ Average (ppm)	S Standard Deviation (ppm)	% > 1 ppm	Upper Confidence Limit ($\bar{x}$ + 2 * S)
Yard Supervisor	11	0.3	0.3	9	0.9
Yard Operator	53	0.4	0.2	2	0.8
Receiving Lead	1	0.2	0	0	0.2
Lead Warehouse Worker	2	0.3	0.2	0	0.7
Warehouse Worker	2	0.5	0.1	0	0.8
Storekeeper	3	0.1	0	0	0.1
Plant Manager	1	0.1	0	0	0.1
Plant Superintendent	1	0.3	0	0	0.3
Mechanical Engineer	6	0.4	0.5	17	1.3
Contract Supervisor	2	0.2	0.1	0	0.3
Draftsman	3	0.4	0.2	0	0.8
Process Engineer	10	0.2	0.1	0	0.5
Safety Director	1	0.1	0	0	0.1
Safety Inspector	1	0.2	0	0	0.2
General Helper	34	0.3	0.3	0	0.8
Mechanical Superintendent	7	0.2	0.1	0	0.4
Maintenance Supt. (Mech.)	10	0.2	0.1	0	0.4
Maintenance Supt. (I&E)	6	0.5	0.9	17	2.3
Maintenance Planner	4	0.2	0.1	0	0.4
Maintenance Supervisor	35	0.2	0.1	0	0.4
Instrument Technician	31	0.2	0.1	0	0.4
Electrician	35	2.3	13.1	3	28.5
Maint. Utility Technician	18	0.1	0.1	0	0.3
General Helper	274	0.7	2.6	29	5.9
Painter/Insulator/Carpenter	3	2.4	3.5	33	9.4
Maintenance Helper	47	1.8	4.7	34	11.1
Plant Chemist	1	0.1	0	0	0.1
Lab Supervisor	14	0.2	0.2	0	0.5
Lab Lead Technician	4	0.2	0.1	0	0.4
Dev. Lab Technician	4	0.2	0.2	0	0.5
Lab Technician	9	0.1	0.1	0	0.3
Lab Trainee	3	0.2	0.1	0	0.3
Compound Operations Supt.	1	0.1	0	0	0.1
Compound Operations Supv.	2	0.1	0	0	0.1
Compound Shift Supv.	5	0.1	0.1	0	0.3
Dryer Operator	89	0.3	1.0	2	2.3
Dryer Utility	38	0.4	0.5	5	1.3
Vinyl Operations Supt.	6	0.7	1.6	17	3.8
Vinyl Operations Engineer	1	0.1	0	0	0.1
Vinyl Operations Supv.	5	0.2	0.1	0	0.4
Vinyl Shift Supv.	50	0.6	1.0	12	2.6
Vinyl Chief Operator	42	1.6	2.7	38	7.0
Vinyl Lead Operator	104	0.2	0.1	0	0.4
Vinyl Reactor Operator	93	2.7	7.2	35	17.0

TABLE III

SUMMARY OF 1982 LEAD DOSIMETRY RESULTS

Job Categories	No. Samples	$\bar{X}$ Average (Micrograms per M^3)	S Standard Deviation (Micrograms per M^3)	% > PEL	Upper Confidence Limit ($\bar{x}$ + 2 * S)
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	0.1	0	2.0
Dry Blend Compounder	13	5.3	11.5	0	28.2
Dry Blend Utility	13	5.2	9.7	8	24.5
Compound Oper. Supv.	3	2.8	1.0	0	4.5
Compound Shift Supv.	18	3.1	1.6	0	3.2
Compounder	60	12.8	14.9	3	42.5
Compound Operator	21	8.9	7.1	0	23.1
Compound Utility	11	3.9	2.2	0	8.4
Color Weigh Compounder	11	133.1	217.6	55	568.4

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TABLE IV

SUMMARY OF 1982 TOTAL PARTICULATE DOSIMETRY RESULTS

Job Categories	No. Samples	$\bar{X}$ Average (Micrograms per M^3)	S Standard Deviation (Micrograms per M^3)	% → PEL	Upper Confidence Limit ($\bar{x} + 2 * S$)
Yard Operator	5	0.3	0.3	0	0.9
Lab Technician	4	0.3	0.5	0	1.2
Dry Blend Utility	20	2.6	5.2	5	13.0
Compounder	4	0.3	0.2	0	0.7
Color Weigh Compounder	11	5.7	10.5	9	26.6
Dryer Operator	3	0.5	0.5	0	1.5

TABLE I

CHEMICAL EXPOSURE MONITORING SUMMARY - 1982

CHEMICAL	TYPE OF SAMPLE	NO. SAMPLES	SAMPLE RESULTS AVERAGE	SAMPLE RESULTS RANGE	NO. OVEREXPOSURES	"PEL"	COMMENTS
610P	Area (A)	7	<0.3 Milligrams/M3	< 0.2 - 0.7	0	None	PEL for DOP = 5 Milligrams/M3
610P, E54 Mixture	A	2	< 1.0 Milligrams/M3	< 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/M3	0.5	0	None	Any PEL anticipated would probably be greater than 500 ppm (2862 Milligrams/M3 - per corporate toxicologist.)
CTA	Dosimetry (D)	1	0.2 Milligrams/M3	0.5	0	None	
DIDP	A	4	<0.2 Milligrams/M3	<0.2 - 0 4	0	None	
DIDP, DTDP	A	4	< 0.2 Milligrams/M3	<0.2	0	None	
Lead	D	164	<16.6 Micrograms/M3	< 1.5 - 21.0	9	400 Micrograms per M3/Hours of work (but not greater than 50 Micrograms/M3)	The overexposures occurred to the color weigh compound, compounders, and a dry blend utility.
Total Particulates	D	47	2.5 Milligrams/M3	0 - 36.7	2	15 Milligrams/M3	
TOTM	A	2	<0.2 Milligrams/M3	< 0.2	0	None	
VCM - Routine	D	1072	< 0.7 ppm, VCM	<0.1 - 77.6	107	1 ppm, VCM	
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	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/M3	<0.1	0	12 Milligrams/M3	Samples during railcar hookup.