

ABERDEEN CHEMICAL PLANT

ROUTINE CHEMICAL DOSIMETRY SUMMARY

Month Of: December, 1983

Date Of Report: January 6, 1984

cc: JF, CRM, PEM, PJK, LBS, WFH, CRS, RAF, RAM, AHS
T. Grumbles - Houston, J. R. Drumwright, M.D. - Ponca City

ALL SAMPLE RESULTS:

<u>Chemical</u>	<u>< PEL</u>		<u>> PEL (OVEREXPOSURES)</u>	
	<u>No.</u>	<u>%</u>	<u>No.</u>	<u>%</u>
VCM	84	89.4	10	10.6
Lead	11	100.0	0	0.0
Total Particulates	0	0.0	0	0.0

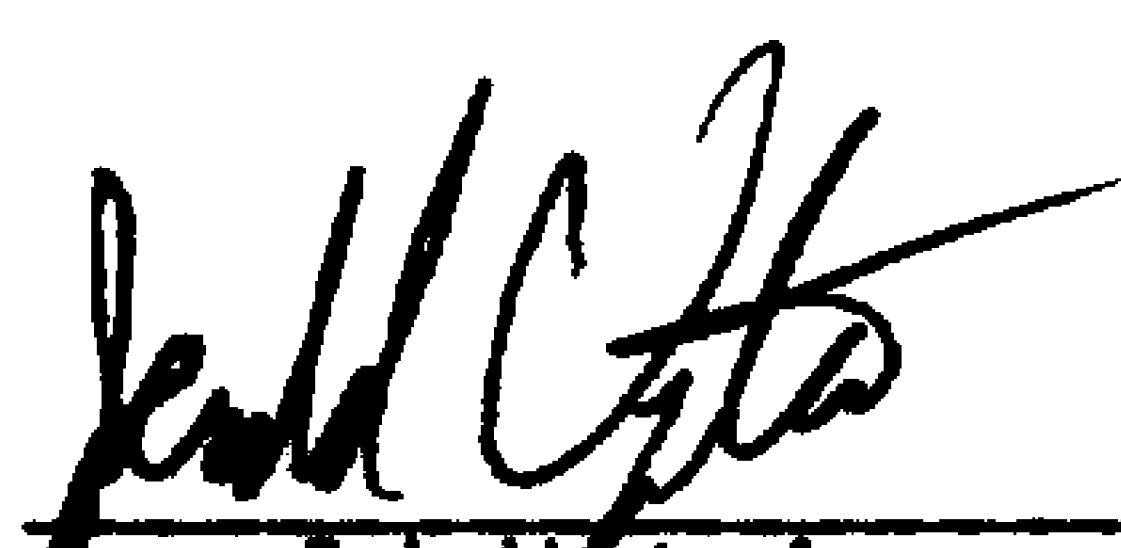
OVEREXPOSURES:

<u>Job Class</u>	<u>Exposure</u>	<u>Source</u>
Reactor Operator	38.2* ppm, VCM x	Employee overexposed while changing VCM filter pack filters in the unit.
Yard Operator	2.6* ppm, VCM x	Employee overexposed while unloading VCM railcars.
Yard Operator	2.1* ppm, VCM x	Employee overexposed while unloading VCM railcars.
Vinyl Operations Supervisor	1.7* ppm, VCM	Employee overexposed while checking for VCM leaks on the old unit recovery compressor deck.
General Mechanic	14.0* ppm, VCM x	Employee overexposed while removing a large chunk of polymer from a drain line in the new unit.

OVEREXPOSURES - Continued

<u>Job Class</u>	<u>Exposure</u>	<u>Source</u>
Instrument Technician	9.5 ppm, VCM x	The employee recalls having smelled VCM while replacing a defective reed switch on a control valve in one of the reactor areas. The specific location is uncertain.
General Mechanic	6.5* ppm, VCM x	Employee overexposed while changing out #5 Corken compressor.
General Mechanic	4.4 ppm, VCM x	Employee overexposed while tightening the D-300 condenser lid.
General Mechanic	1.9 ppm, VCM	Employee overexposed while repairing various small leaks during startup of the old unit.
Maintenance Area Supervisor	1.7* ppm, VCM	Employee overexposed while supervising line breaking on the 901 vacuum pump.

*Respiratory Protection Worn.


 Gerald Uptain

rah

ABERDEEN CHEMICAL PLANTROUTINE CHEMICAL DOSIMETRY SUMMARYMonth Of: November, 1983Date Of Report: December 5, 1983

cc: JF, CRM, PEM, PJK, LPS, WFH, CRS, RAF, RAM, AHS
 T. Grumbles - Houston, J. R. Drumwright, M.D. - Ponca City

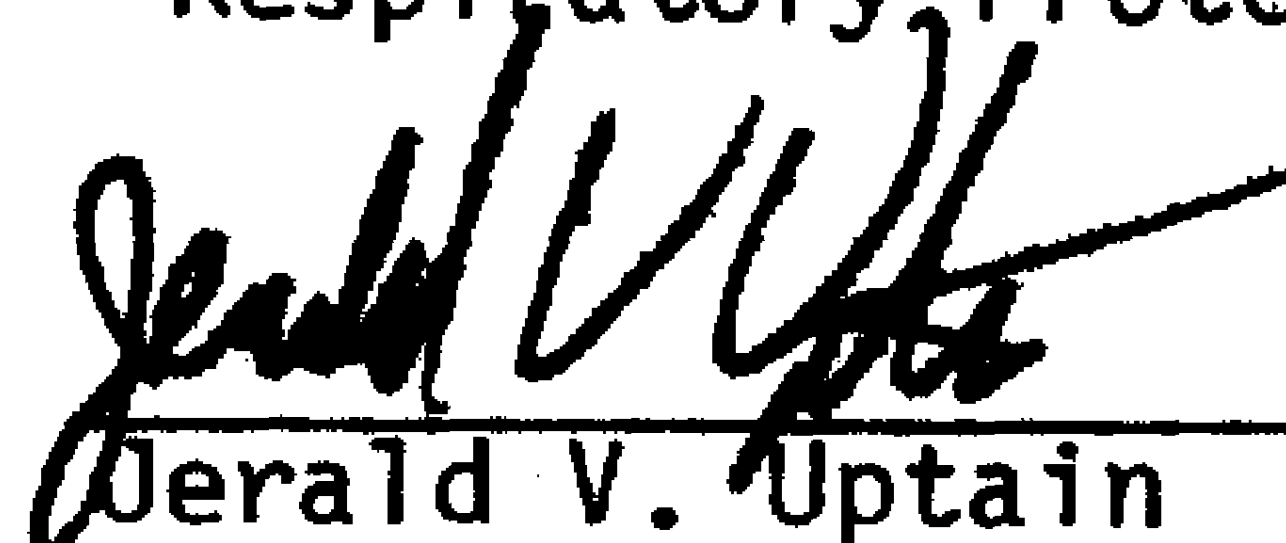
ALL SAMPLE RESULTS:

<u>Chemical</u>	<u>< PEL</u>		<u>> PEL (OVEREXPOSURES)</u>	
	<u>No.</u>	<u>%</u>	<u>No.</u>	<u>%</u>
VCM	91	95.79	4	4.21
Lead	4	100.0	0	0.0
Total Particulates	0	0.0	0	0.0

OVEREXPOSURES:

<u>Job Class</u>	<u>Exposure</u>	<u>Source</u>
Reactor Operator	7.6* ppm, VCM	Employee overexposed while changing VCM filter pack filters in the old unit.
Chief Operator	1.6* ppm, VCM	Employee overexposed while changing emission recovery filters.
General Mechanic	1.4 ppm, VCM	Employee spent entire work period hanging tarpaulins at both floors of the new unit recovery building. No cause for his overexposure has been found.
General Mechanic	28.8* ppm, VCM	Employee overexposed while repairing the 742 reactor secondary VCM valve.

*Respiratory Protection Worn.


 Gerald V. Uptain

ABERDEEN CHEMICAL PLANTROUTINE CHEMICAL DOSIMETRY SUMMARYMonth Of: October, 1983Date Of Report: November 10, 1983

cc: JF, CRM, PEM, PJK, LPS, WFH, CRS, RAF, RAM, AHS
 T. Grumbles - Houston, J. R. Drumwright, M.D. - Ponca City

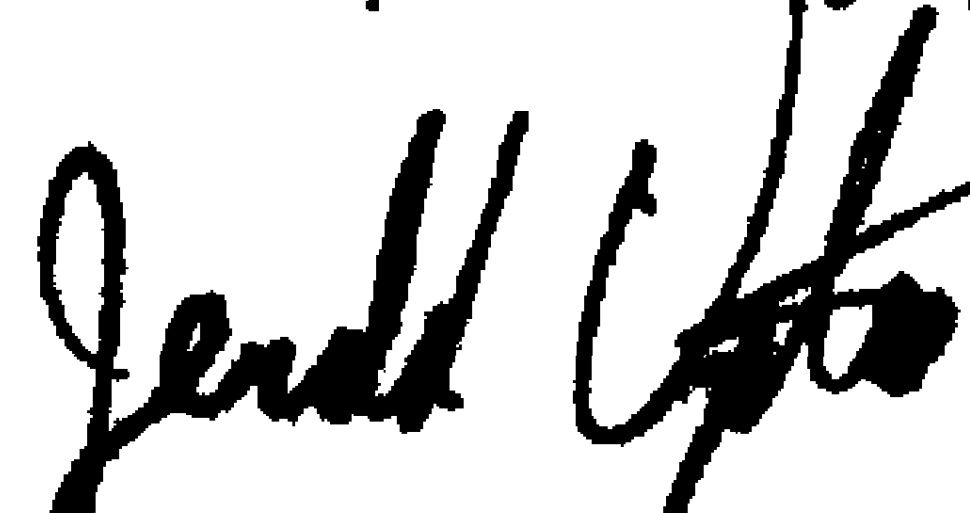
ALL SAMPLE RESULTS:

<u>Chemical</u>	<u>< PEL</u>		<u>> PEL (OVEREXPOSURES)</u>	
	<u>No.</u>	<u>%</u>	<u>No.</u>	<u>%</u>
VCM	95	98.96	1	1.04
Lead	24	95.83	1	4.17
Total Particulates	6	85.71	1	14.29

OVEREXPOSURES:

<u>Job Class</u>	<u>Exposure</u>	<u>Source</u>
Reactor Operator	3.5* ppm, VCM	Employee overexposed while changing VCM filter pack filters.
Color Weigh Compounder	16.0* milligrams Total dust/m ³	Employee overexposed while dipping "6500 R4 Blk" color pigment from a tall fiber drum in the color weigh room.
Compounder	33.8* micrograms Lead/m ³	Employee did regular job of charging blenders on compound Line III. No reason for his overexposure has been identified.

*Respiratory protection worn.


 Jerald Uptain

rah

ABERDEEN CHEMICAL PLANTROUTINE CHEMICAL DOSIMETRY SUMMARYMonth Of: September, 1983Date Of Report: October 7, 1983

cc: JF, CRM, PEM, PJK, LBS, WFH, CRS, RAF, RAM, AHS
 T. Grumbles - Houston, J. R. Drumwright, M.D. - Ponca City

ALL SAMPLE RESULTS:

<u>Chemical</u>	<u>< PEL</u>		<u>> PEL (OVEREXPOSURES)</u>	
	<u>No.</u>	<u>%</u>	<u>No.</u>	<u>%</u>
VCM	85	91.4	8	8.6
Lead	6	85.7	1	14.3
Total Particulates	4	100.0	0	0.0

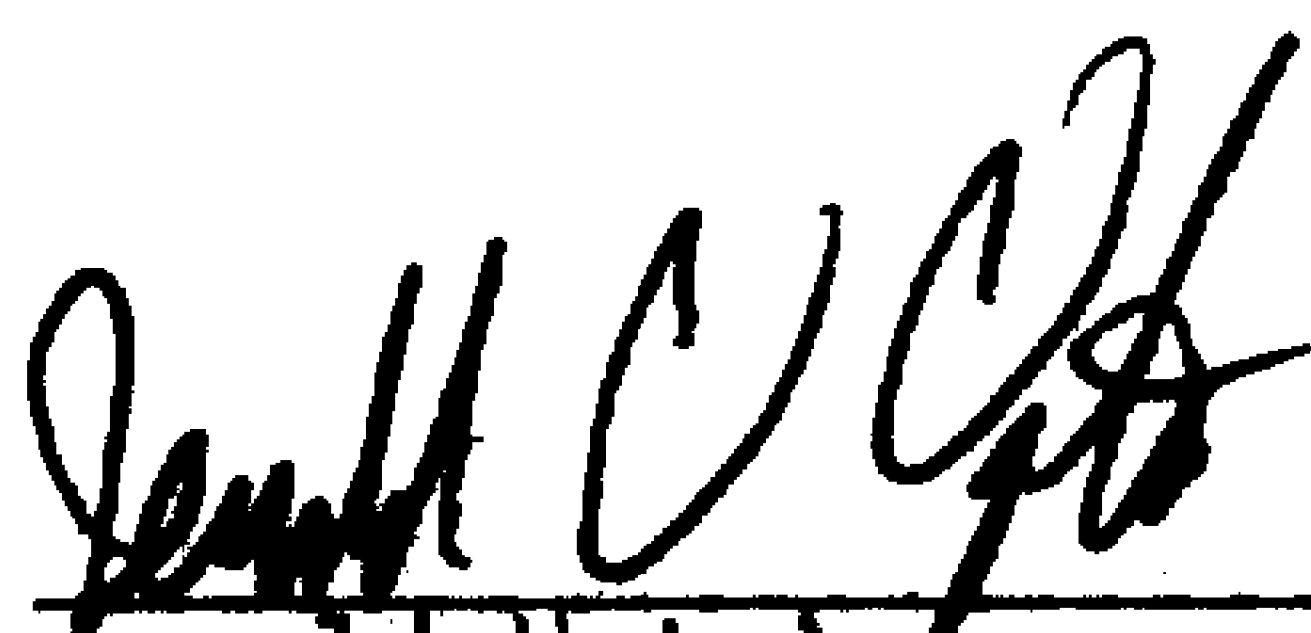
OVEREXPOSURES:

<u>Job Class</u>	<u>Exposure</u>	<u>Source</u>
Color Weigh Compounder	39.5* Micrograms Lead/m ³	Employee overexposed during routine color weighup of Cyastab 564.
General Mechanic	1.1* ppm, VCM	Employee overexposed while removing 741 dump valve.
General Mechanic	3.7* ppm, VCM	Employee overexposed while installing a two-inch pipe stub on the suction side of the old unit west RVCM return pump.
General Mechanic	4.3 ppm, VCM	Employee overexposed while changing 743 reactor seal.
Chief Operator	1.7* ppm, VCM	Employee overexposed while changing VCM filter pack filters.

OVEREXPOSURES - Continued

<u>Job Class</u>	<u>Exposure</u>	<u>Source</u>
Reactor Operator	2.4* ppm, VCM	Employee overexposed while changing seal water filters.
Reactor Operator	2.8* ppm, VCM	Employee overexposed while changing seal water filters in the new unit.
Chief Operator	6.6* ppm, VCM	Employee overexposed while changing VCM filters in the old unit.
Reactor Operator	16.2* ppm, VCM	Employee overexposed while changing VCM filters.

*Respiratory Protection Worn.



Gerald Uptain

rah

ABERDEEN CHEMICAL PLANTROUTINE CHEMICAL DOSIMETRY SUMMARYMonth Of: August, 1983Date Of Report: September 12, 1983

cc: JF, CRM, PEM, PJK, LBS, WFH, CRS, RAF, RAM, AHS
 T. Grumbles - Houston, J. R. Drumwright, M.D. - Ponca City

ALL SAMPLE RESULTS:

<u>Chemical</u>	<u>< PEL</u>		<u>> PEL (OVEREXPOSURES)</u>	
	<u>No.</u>	<u>%</u>	<u>No.</u>	<u>%</u>
VCM	92	93.9	6	6.1
Lead	26	92.9	2	7.1
Total Particulates	3	100.0	0	0.0

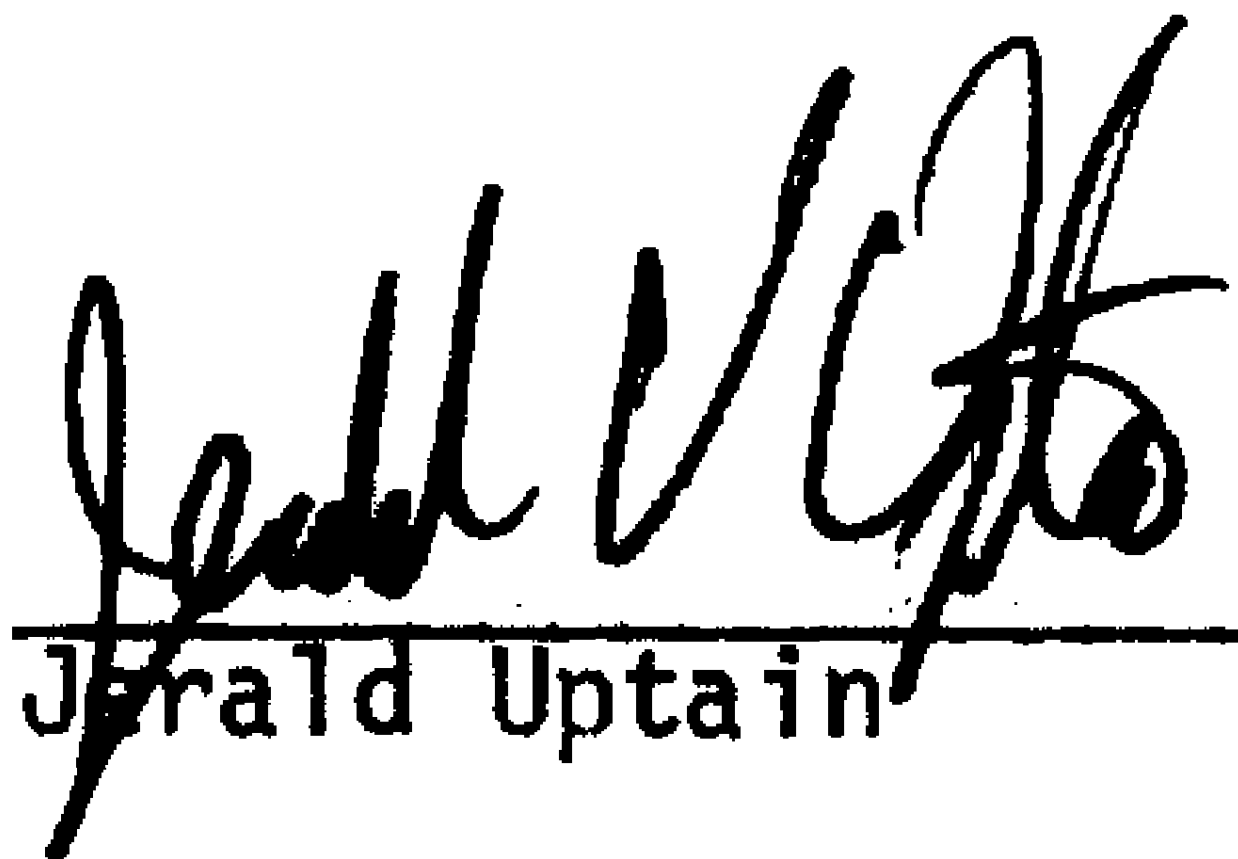
OVEREXPOSURES:

<u>Job Class</u>	<u>Exposure</u>	<u>Source</u>
Compound Operator	40.0* Micrograms Lead/m ³	Employee worked on Compound Line III all shift. No cause has been found for the overexposure.
Compounder	44.0* Micrograms Lead/m ³	Employee worked on Compound Line III all shift. No cause has been found for the overexposure.
Painter/Carpenter	2.7 ppm, VCM	Employee worked in vicinity of vinyl batch water stripper all day.
Reactor Operator	1.1 ppm, VCM	The employee worked in the old vinyl unit all shift. No cause for his overexposure has been found.
Yard Operator	1.5* ppm, VCM	Employee overexposed while hooking/unhooking VCM railcars.
Reactor Operator	2.0 ppm, VCM	Employee worked in new unit all shift. No cause for his overexposure has been identified.

Overexposures - Continued

<u>Job Class</u>	<u>Exposure</u>	<u>Source</u>
Reactor Operator	2.6* ppm, VCM	Employee overexposed while locating source of VCM leak under D-400.
Chief Operator	2.8 ppm, VCM	Employee worked in both old and new vinyl units. No cause for his overexposure has been identified.

*Respiratory protection worn.



Gerald Uptain

rah

ABERDEEN CHEMICAL PLANT

ROUTINE CHEMICAL DOSIMETRY SUMMARY

Month Of: July, 1983

Date Of Report: August 5, 1983

cc: JF, CRM, PEM, PJK, RDJ, WFH, CRS, RAF, RAM, AHS
T. Grumbles - Houston, J. R. Drumwright, M.D. - Ponca City

ALL SAMPLE RESULTS:

<u>Chemical</u>	<u>< PEL</u>		<u>> PEL (OVEREXPOSURES)</u>	
	<u>No.</u>	<u>%</u>	<u>No.</u>	<u>%</u>
VCM	90	94.7	5	5.3
Lead	9	100.0	0	0
Total Particulates	2	100.0	0	0

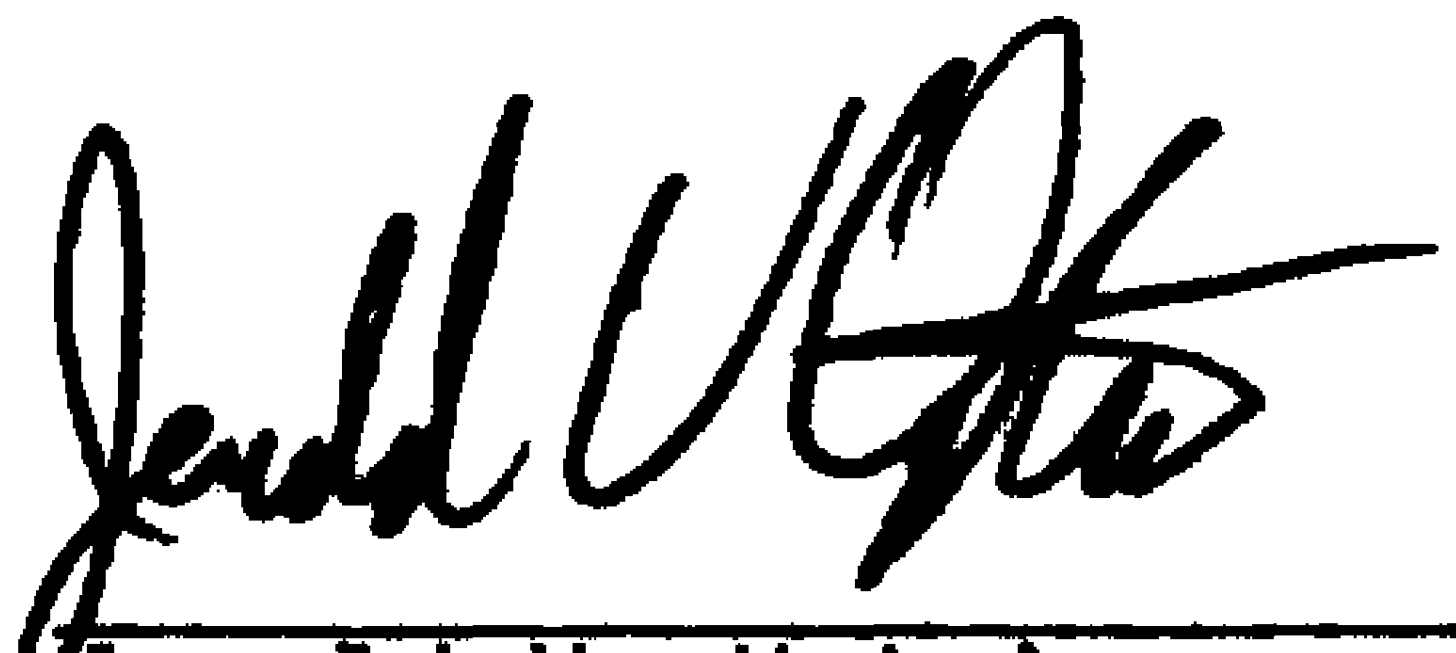
OVEREXPOSURES:

<u>Job Class</u>	<u>Exposure</u>	<u>Source</u>
Reactor Operator	1.3* ppm, VCM	Employee overexposed while locating source of VCM leak in old unit.
Chief Operator	1.4* ppm, VCM	Employee overexposed while changing the Emission Recovery System filters.
Reactor Operator	1.5 ppm, VCM	Employee overexposed while taking slurry samples in the new unit.
Reactor Operator	2.4 ppm, VCM	Employee overexposed while observing the new unit reactor sewer line "bullseye" to see if 745 sewer valve was leaking (it was!). He detected the odor of VCM and left the immediate vicinity of the bullseye.

OVEREXPOSURES - Continued

<u>Job Class</u>	<u>Exposure</u>	<u>Source</u>
Yard Operator	4.1* ppm, VCM	Employee overexposed while connecting/disconnecting VCM railcars at the unloading stations.

*Respiratory protection worn.



Gerald V. Uptain

rah

ABERDEEN CHEMICAL PLANTROUTINE CHEMICAL DOSIMETRY SUMMARYMonth Of: June, 1983Date Of Report: July 6, 1983

cc: JF, CRM, PEM, PJK, RDJ, WFH, CRS, RAF, RAM, AHS
 T. Grumbles - Houston, J. R. Drumwright, M.D. - Ponca City

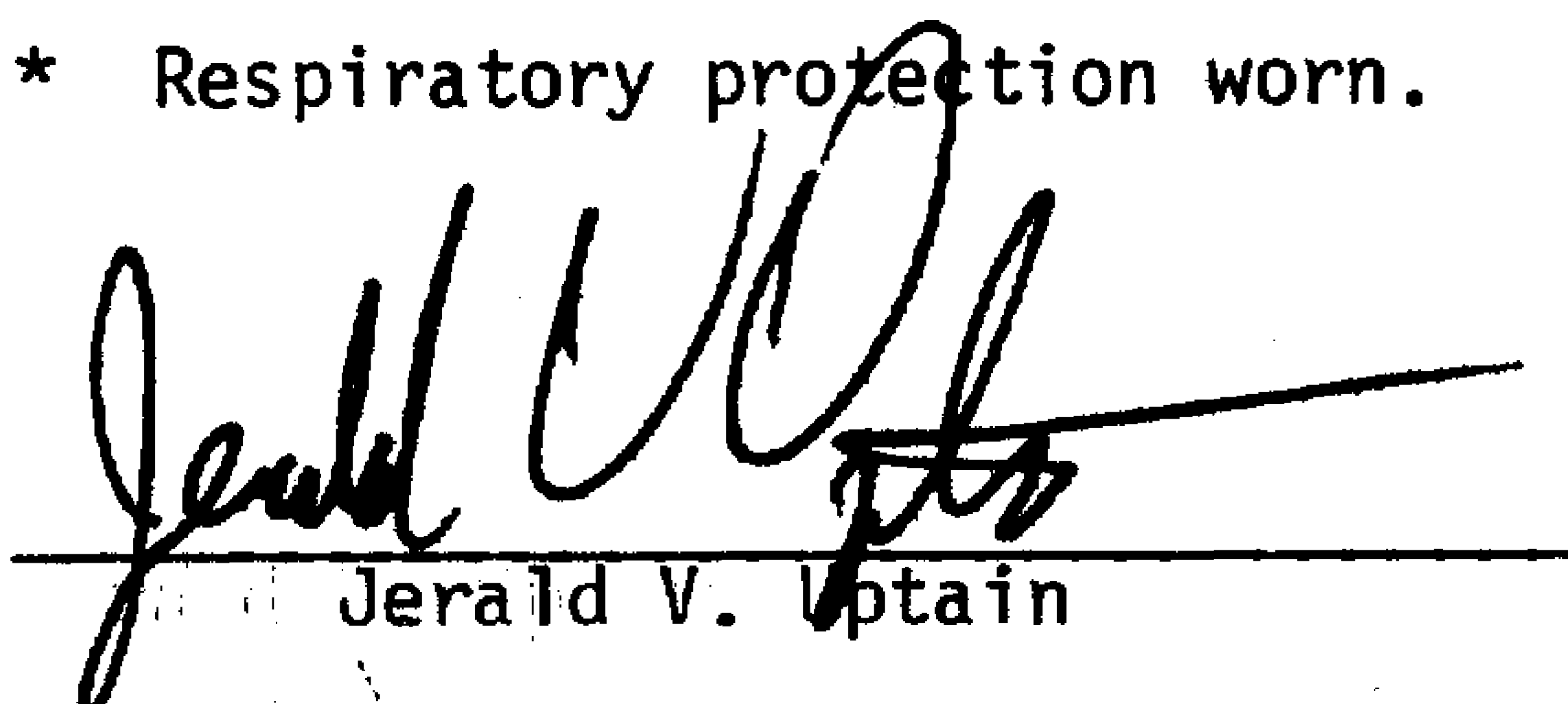
ALL SAMPLE RESULTS:

<u>Chemical</u>	<u>< PEL</u>		<u>> PEL (OVEREXPOSURES)</u>	
	<u>No.</u>	<u>%</u>	<u>No.</u>	<u>%</u>
VCM	84	96.6	3	3.4
Lead	4	80.0	1	20.0
Total Particulates	3	100.0	0	0.0

OVEREXPOSURES:

<u>Job Class</u>	<u>Exposure</u>	<u>Source</u>
Color Weigh Compounder	77.2* Micrograms Lead/M ³	Employee performed routine task of color weighup, including weighing of Cyastab 988. No specific cause has been found for his overexposure.
Chief Operator	2.2* ppm, VCM	Employee overexposed while cleaning the new module north K. O. tank pump.
Yard Operator	2.0* ppm, VCM	Employee overexposed while hooking and unhooking VCM railcars at the VCM tank farm.
General Mechanic	12.9* ppm, VCM	Employee overexposed while changing out the D-600 primary VCM charge valve (valve sticking during operation).

* Respiratory protection worn.


 Gerald V. Uptain

VAB.0001040235

ABERDEEN CHEMICAL PLANT
ROUTINE CHEMICAL DOSIMETRY SUMMARY

Month Of: May, 1983

Date Of Report: June, 8, 1983

cc: JF, CRM, PEM, PJK, RDJ, WFH, CRS, RAF, RAM, AHS
T. Grumbles - Houston, L. A. Legendre - Ponca City

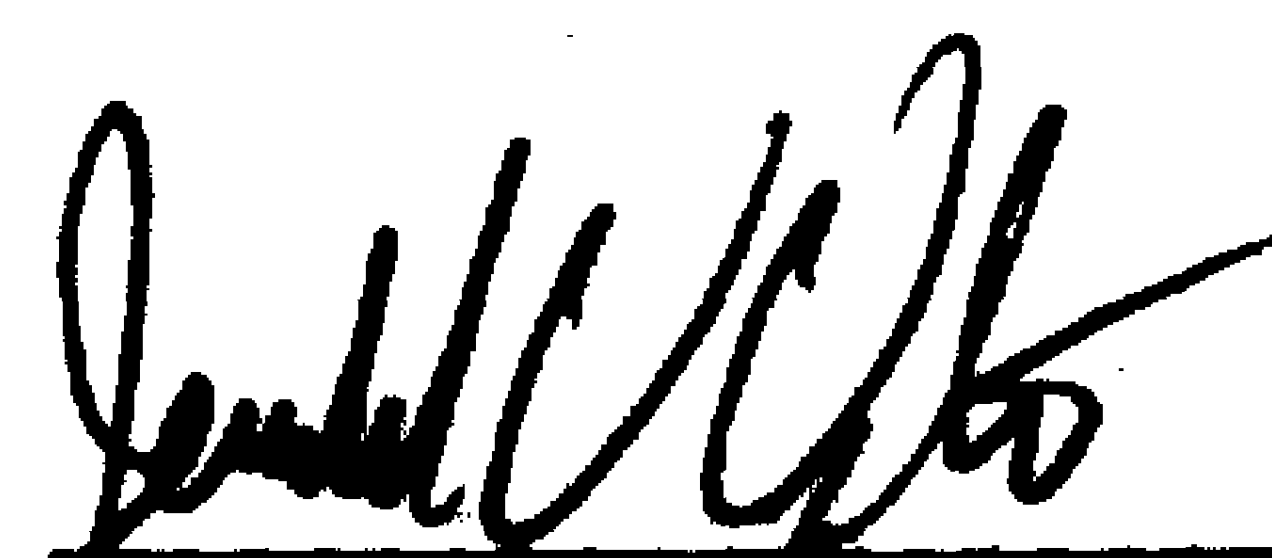
ALL SAMPLE RESULTS:

<u>Chemical</u>	<u>< PEL</u>		<u>> PEL (OVEREXPOSURES)</u>	
	<u>No.</u>	<u>%</u>	<u>No.</u>	<u>%</u>
VCM	86	97.7	2	2.3
Lead	28	96.6	1	3.4
Total Particulates	2	100.0	0	0.0

OVEREXPOSURES:

<u>Job Class</u>	<u>Exposure</u>	<u>Source</u>
Compound Operator	53.5 Micrograms Lead/M ³	Employee overexposed while helping charge Line I Blenders.
Dryer Utility	1.2* ppm, VCM	Employee worked in the immediate vicinity of the V-10 blend tanks during transfer of resin from Pond #1 (resin reclaim operation).
Dryer Operator	3.8* ppm, VCM	Same cause (different date) as that for dryer utility above.

* Respiratory protection worn.


Gerald V. Uptain

tap

A

ABERDEEN CHEMICAL PLANT
ROUTINE CHEMICAL DOSIMETRY SUMMARY

MONTH OF: April 1, 1983

DATE OF REPORT: May 16, 1983

c: JF, CRM, PEM, PJK, RDJ, WFH, CRS, RAF, RAM, AHS
T. G. Grumbles - Houston, L. A. Legendre- Ponca City

ALL SAMPLE RESULTS:

<u>Chemical</u>	<u>< PEL</u>		<u>> PEL (OVEREXPOSURES)</u>	
	<u>No.</u>	<u>%</u>	<u>No.</u>	<u>%</u>
VCM	82	95.3	4	4.7
Lead	10	90.9	1	9.1
Total Particulates	1	100.0	0	0

OVEREXPOSURES:

<u>Job Class</u>	<u>Exposure</u>	<u>Source</u>
Color Weigh Compounder	253.8* Micrograms Lead/M ³	Employee weighed Halbase 10EP outside of color weigh room which was being painted at the time.
Chief Operator	4.0*ppm, VCM	Employee changed filters on the Emission Recovery System and isolated a safety disc on a RVCM condenser in the new unit.
Reactor Operator	3.3* ppm, VCM	Employee drained a K.O. tank and changed VCM filters in the new unit.
General Mechanic	27.4* ppm, VCM	Employee blanked out 503 recovery compressor in preparation for a changeout of a leaking in-board seal.
General Mechanic	1.9* ppm, VCM	Employee repaired the main dump valve on 745 reactor. The valve could not be closed by operations, requiring the repair.

*Respiratory Protection Worn


Gerald Uptain

VAB.0001040237

ABERDEEN CHEMICAL PLANTROUTINE CHEMICAL DOSIMETRY SUMMARYMonth Of: March 1983Date Of Report: April 19, 1983

cc: JF, CRM, PEM, PJK, RDJ, WFH, CRS, RAF, RAM, AHS
 T. Grumbles - Houston, L. A. Legendre - Ponca City

ALL SAMPLE RESULTS:

<u>Chemical</u>	<u>< PEL</u>		<u>> PEL - OVEREXPOSURES</u>	
	<u>No.</u>	<u>%</u>	<u>No.</u>	<u>%</u>
VCM	74	90.2	8	9.8
Lead	35	92.1	3	7.9
Total Particulates	29	100.0	0	0

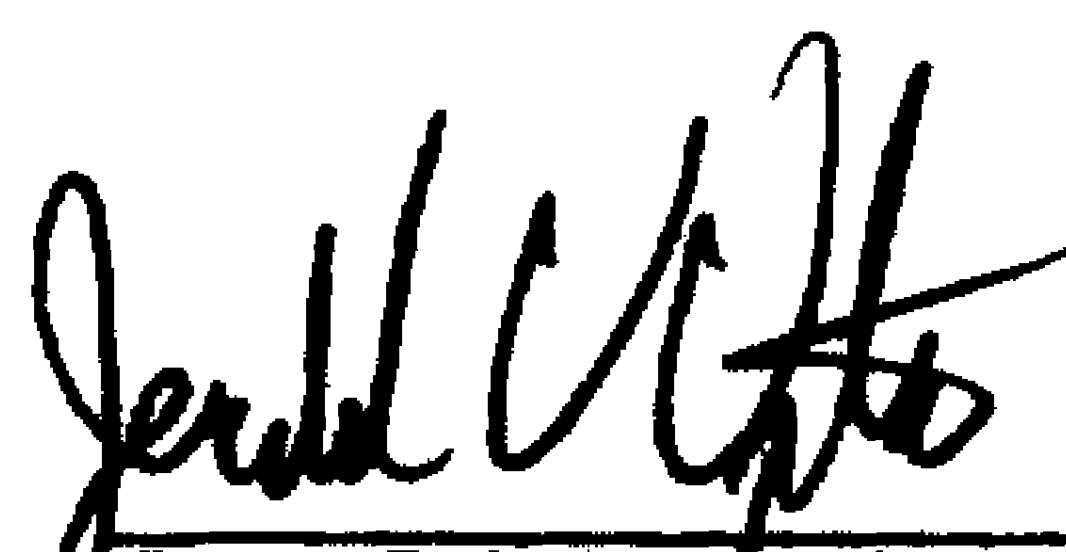
OVEREXPOSURES:

<u>Job Class</u>	<u>Exposure</u>	<u>Source</u>
Chief Operator	1.1 ppm, VCM x	Employee prepared 905 recovery compressor for maintenance work on a blown seal.
Vinyl Shift Supervisor	1.2* ppm, VCM x	Employee helped prepare 905 recovery compressor for maintenance work.
Chief Operator	1.2* ppm, VCM x	Employee helped I&E replace RVCM meter in old unit. A leaking valve caused release of VCM when flanges were broken open.
Reactor Operator	1.4* ppm, VCM x	Employee changed filters in the new unit VCM filter packs.
Yard Operator	2.9* ppm, VCM	Employee overexposed while looking for leaks in the VCM tank farm.
Chief Operator	12.0* ppm, VCM x	Employee assisted maintenance personnel during removal of 745 reactor VCM recovery valve.

OVEREXPOSURES - (Continued)

<u>Job Class</u>	<u>Exposure</u>	<u>Source</u>
General Mechanic	1.1* ppm, VCM x	Employee changed 745 reactor seal.
General Mechanic	33.1* ppm, VCM <	Employee replaced a leaking flex line (south liquid line) at the #3 VCM tank car unloading rack.
Compounder	191.2* micrograms lead/M ³	Employee overexposed while charging Halbase 10EP on Line III. No specific cause for the overexposure has been found. A fellow compounder experienced an exposure of only 9.3 micrograms/M ³ during the same run and on an adjacent shift.
Compounder	108.1* micrograms lead/M ³	Employee (same as above) overexposed while charging Halbase 10 on Line III. No specific cause has been found.
Color Weigh Compounder	48.8* micrograms lead/M ³	Employee did regular job of color weighup.

*Respiratory Protection Worn


 Jerald Uptain

rah

ABERDEEN CHEMICAL PLANT
ROUTINE CHEMICAL DOSIMETRY SUMMARY

MONTH OF: February, 1983

DATE OF REPORT: March 15, 1983

c: JF, CRM, PEM, PJK, RDJ, WFH, CRS, RAF, RAM, AHS
 T. G. Grumbles - Houston, L. A. Legendre- Ponca City

ALL SAMPLE RESULTS:

<u>Chemical</u>	<u>< PEL</u>		<u>> PEL OVEREXPOSURES</u>	
	<u>No.</u>	<u>%</u>	<u>No.</u>	<u>%</u>
VCM	80	89.9	9	10.1
Lead	10	100	0	0
Total Particulates	4	100	0	0

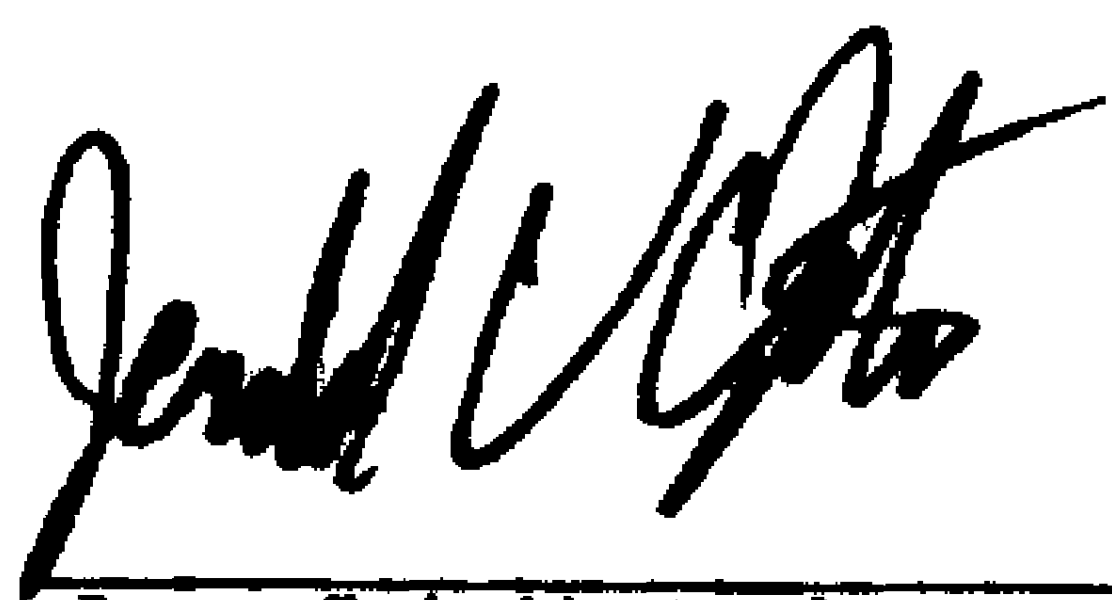
OVEREXPOSURES:

<u>Job Class</u>	<u>Exposure</u>		<u>Source</u>
General Mechanic	2.7* ppm, VCM	x	Employee blanked out D-700 reactor in preparation for cleaning and an agitator blade change.
General Mechanic	6.0*, ppm, VCM	x	Employee blanked out lines in preparation for installing a recovery compressor in the old unit.
General Mechanic	6.3*, ppm, VCM	x	Employee removed a relief valve from a compressor in the VCM compressor shed.
General Mechanic	11.6*, ppm, VCM	x	Employee replaced a compressor in the new unit recovery area.
Yard Supervisor	1.2*, ppm, VCM		Employee checked VCM exposure levels resulting from a leaking compressor in the VCM compressor shed.
Dryer Utility	1.4 ppm, VCM		Employee worked as a fire watch in the old unit. Several flange leaks occurred during the time.

OVEREXPOSURES - (Continued)

<u>Job Class</u>	<u>Exposure</u>	<u>Source</u>
Chief Operator	1.8 ppm, VCM	Employee walked through the old unit dump Sweco area while a coarse batch was being dumped.
Yard Operator	2.0* ppm, VCM	Employee worked on leaks in the VCM compressor shed.
Chief Operator	3.9* ppm, VCM	Employee cleaned and blanked 708 tank (emission recovery) in preparation for maintenance.

*Respiratory protection worn.



Jerald Uptain

rah

ABERDEEN CHEMICAL PLANT
ROUTINE CHEMICAL DOSIMETRY SUMMARY

MONTH OF: January, 1983

DATE OF REPORT: February 9, 1983

c: JF, CRM, PEM, PJK, RDJ, WFH, CRS, RAF, RAM, AHS
 T. G. Grumbles - Houston, L. A. Legendre- Ponca City

ALL SAMPLE RESULTS:

<u>Chemical</u>	<u>< PEL</u>		<u>≥ PEL OVEREXPOSURES</u>	
	<u>No.</u>	<u>%</u>	<u>No.</u>	<u>%</u>
VCM	98	92.5	8	7.5
Lead	4	100	0	0
Total Particulates	0	0	0	0

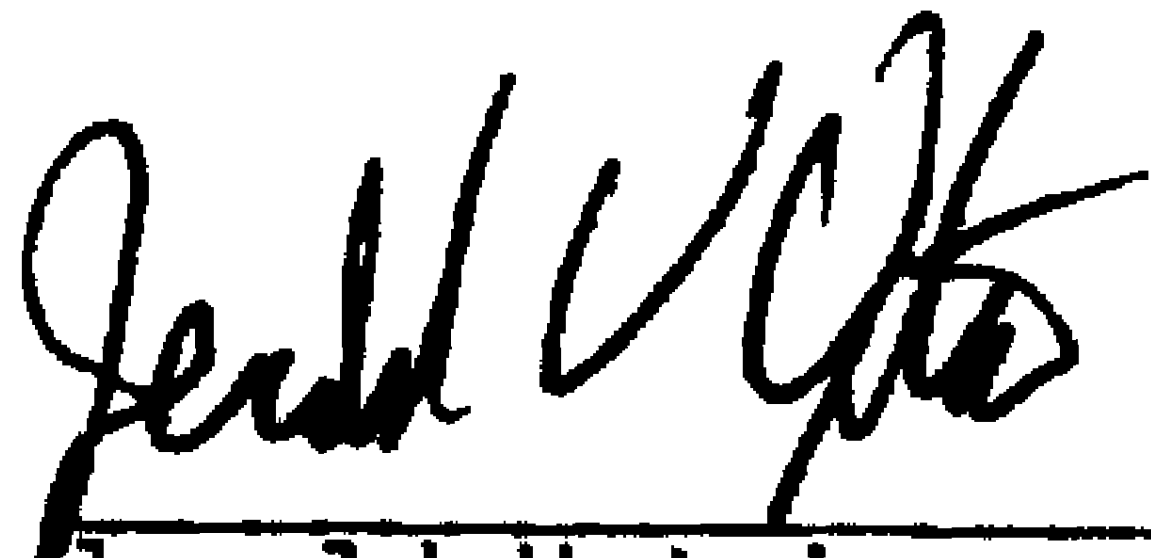
OVEREXPOSURES:

<u>Job Class</u>	<u>Exposure</u>	<u>Source</u>
Vinyl Shift Supervisor	1.0* ppm, VCM	Employee unplugged the blowdown tank transfer line from the old unit to the new unit.
Chief Operator	1.2* ppm, VCM	Employee worked near a leaking VCM pump discharge valve in the old unit - same source as that for the Reactor Operator exposure of 1.4 ppm (see below).
Vinyl Shift Supervisor	1.2* ppm, VCM	Employee checked VCM leaks in old unit.
Reactor Operator	1.4* ppm, VCM	Employee checked for VCM leak in old unit, finding the west VCM charge pump discharge valve stuck.
Reactor Operator	3.3* ppm, VCM	Employee manually drained the K.O. tanks and the blowdown tank in the new unit.

OVEREXPOSURES - (Continued)

<u>Job Class</u>	<u>Expsoure</u>	<u>Source</u>
Reactor Operator	3.5* ppm, VCM	Employee dumped two coarse batches (741 & 742 reactors) and sampled 743 and 745 reactors for coarseness.
Chief Operator	5.7* ppm, VCM	Employee isolated a vacuum pump having a blown seal.
Reactor Operator	20.1* ppm, VCM	Employee changed VCM filters in the new unit filter packs.

*Respiratory protection worn.



Gerald Uptain

rah