



DOW CHEMICAL U.S.A.

LOUISIANA DIVISION
PLAQUEMINE, LOUISIANA 70764
504 389-8000

January 22, 1980

P.J. PREJEAN, RAILROAD

cc: Shift Supervisors - Railroad
J.M. Cronan - Tank Car Cleaning-Inspection
O.C. Dickerson - Railroad Maintenance
Dannie Kennedy - Industrial Hygiene

Please refer to my letter of 12/20/79 outlining results of noise surveys taken in December 1979. The following problem areas of excessive noise exposures have been evaluated and the following recommendations are made:

TANK CAR CLEANING

Recommend wearing of hearing protection in cab when operating switch engine. Hearing protection is presently being worn in all other noisy areas and should continue to be enforced.

RAIL CAR INSPECTORS

Recommend wearing of hearing protection when one man is designated as air puller only, releasing air brakes, since he will receive all of this exposure. When two or more are inspecting and pulling air, the exposure is split between them, resulting in marginal exposure or less for each.

RAILROAD SWITCHING CREW

Recommend wearing of hearing protection by engineer in cab operating switch engine. At certain other times, the use of hearing protection should be encouraged, notably, when riding front of engine with horn blowing, with engine accelerating under load or while switching.

RAILROAD TRACK MAINTENANCE-(TAMPER)

Recommend wearing of hearing protection by operator in cab operating machine and also by man on ground when in close proximity to tamper when tamper is operating.

RAILROAD TRACK MAINTENANCE

Recommend wearing of hearing protection when operating or in close proximity to air driven equipment such as spike driver, including compressor underload. Excessive noise exposure is apparent at least 30 feet from these sources. Normally, 3 men are involved, one operating spike driver and 2 within several

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AN OPERATING UNIT OF THE DOW CHEMICAL COMPANY

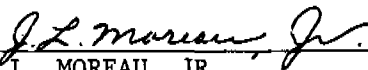


P.J. Prejean
January 22, 1970
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feet of operator lining up rail, ties and tie plates for the spike driver.

Some individual judgment may have to be exercised when exposure is marginal. Employees should be encouraged to wear hearing protection during these periods.

It is the responsibility of supervision to enforce the wearing of proper hearing protection by all personnel in the work area during noisy operations.



J.L. MOREAU, JR.
INDUSTRIAL HYGIENE REPRESENTATIVE

JLM, Jr./md

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MARINE JOB SUMMARY

SHIFT SUPERVISOR

Supervises and directs loading or discharging operations of division bulk liquid product on barges and ships.

MARINE SPECIALIST -

SENIOR MARINE TECHNICIAN

Under supervision of shift supervisor, oversees or actively engages in process of loading or discharging of division bulk liquid products on barges and ships.

MARINE TECHNICIAN - MARINE TECHNICIAN TRAINEE

Under supervision of shift supervisor, performs loading and discharging of bulk liquid products on barges and ships.

CHEMICAL AND PHYSICAL AGENT INVENTORY

SUPERINTENDENT NAME A.E. KIRBY		PLANT MARINE		BUILDING NO. DOCKS #1 and #2	
FILLED OUT BY J.L. MOREAU/DANNIE KENNEDY			DATE 2/13/80		
JOB CLASSIFICATION SS-MS-SMT-MT-MTT INDUSTRIAL HYGIENE		INDEX NUMBER		NO. OF EMPLOYEES IN CLASSIFICATION 30 1	

MATERIALS OR PHYSICAL AGENTS	INDUSTRIAL HYGIENE GUIDE ppm or mg/m ³	* DEGREE OF EXPOSURE	** HAZARD RATING	DATA SHEET AVAILABLE
* BENZENE	10PPM	<u>II</u>	<u>3</u>	✓
* HYDROCHLORIC ACID	5PPM	<u>II</u>	<u>4</u>	✓
* PROPYLENE OXIDE	100PPM	<u>II</u>	<u>4</u>	✓
* 1,3-BUTADIENE	1000PPM	<u>II</u>	<u>4</u>	✓
* VINYL CHLORIDE	1PPM	<u>III</u>	<u>3</u>	✓
* PROPYLENE	not to cause 18% O ₂	<u>II</u>	<u>4</u>	✓
* PENTANE	600PPM	<u>II</u>	<u>4</u>	✓
CARBON TETRACHLORIDE	10PPM	<u>IV</u>	<u>3</u>	✓
CAUSTIC SODA	C 2 $\frac{mg}{m^3}$	<u>IV</u>	<u>4</u>	✓
CHLOROFORM	10PPM	<u>IV</u>	<u>3</u>	✓
CHLOROTHENE NU SOLVENT	350PPM	<u>IV</u>	<u>3</u>	✓
ETHYLENEDICHLORIDE	50PPM	<u>IV</u>	<u>2</u>	✓
ETHYLENE GLYCOL	100PPM	<u>IV</u>	<u>4</u>	✓
FUEL OIL		<u>IV</u>	<u>4</u>	✓
HYDROQUINONE	2 $\frac{mg}{m^3}$	<u>IV</u>	<u>3</u>	✓
METHANOL	200PPM	<u>IV</u>	<u>3</u>	✓
METHYLENE CHLORIDE	200PPM	<u>IV</u>	<u>3</u>	✓
PERCHLOROETHYLENE	100PPM	<u>IV</u>	<u>3</u>	✓
PROPYLENE GLYCOL	100PPM	<u>IV</u>	<u>4</u>	✓
TOLUENE	100PPM	<u>IV</u>	<u>3</u>	✓
NAPTHA	200PPM	<u>IV</u>	<u>3</u>	✓
ISOBUTANOL	50PPM	<u>IV</u>	<u>3</u>	✓
MONOETHANOLAMINE	3PPM	<u>IV</u>	<u>3</u>	✓
DIETHANOLAMINE	3PPM	<u>IV</u>	<u>3</u>	✓
TRIETHANOLAMINE		<u>IV</u>	<u>3</u>	
DOWANOL EB	50PPM	<u>IV</u>	<u>3</u>	✓
DOWANOL PM	100PPM	<u>IV</u>	<u>3</u>	✓
NOISE	85dBA	<u>II</u>	<u>3</u>	

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* Closed vapor recovery system

FORM M-47710 PRINTED 8-10-74

* See Industrial Hygiene Data Sheet.

** To be filled in by Industrial Hygiene.

SUPERINTENDENT NAME

PLANT

BUILDING NO.

4101

FILLED OUT BY

DATE _____

2/13/80

JOB CLASSIFICATION

[illegible][illegible]

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1

INDUSTRIAL
HYGIENE GUIDE
ppm or mg/m³

DEGREE OF
EXPOSURE

HAZARD
RATING

DATA SHEET
AVAILABLE

EXPOSURE INCIDENTAL TO VISITING DOCKS

I

4

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FCRM 10-47710 PRINTED R-10-74

* See Industrial Hygiene Data Sheet.

* * To be filled in by Industrial Hygiene.

DEGREE OF EXPOSURE

DEFINED ON THE BACK OF THE HEALTH HAZARD DATA SHEET:

I NO CONTACT	CHARACTERIZED BY REMOTE OPERATION WITH EQUIPMENT ISOLATED FROM THE WORK AREA. THE PERSONS ENTERING ISOLATED AREAS WILL REQUIRE THE PERSONAL PROTECTION OUTLINED FOR IV BELOW.
II MINOR CONTACT	CHARACTERIZED BY CLOSED SYSTEMS WITH EQUIPMENT VENTED OUTSIDE THE WORK AREA. INSTRUMENT CONTROL; MECHANICAL HANDLING OF MATERIALS IN BULK. EXAMPLES ARE: CONTINUOUS REACTORS, STILLS AND FILTERS; ENCLOSED CONVEYORS. VENTILATED PACKAGING.
III OCCASIONAL DAILY CONTACT	CHARACTERIZED BY MANUAL HANDLING OF MATERIALS IN PACKAGES SUCH AS BAGS, DRUMS AND FIBERPAKS. VENTILATION MAY BE PROVIDED FOR SPECIFIC JOBS. MANY BATCH OPERATIONS FALL INTO THIS CATEGORY.
IV GROSS CONTACT LIKELY	CHARACTERIZED BY HAND OPERATION. EXAMPLES ARE: EMERGENCY REPAIRS, CLEANING EQUIPMENT, CLEANING FILTERS, TAKING CARE OF SPILLS, PACKAGING VOLATILE OR DUSTY MATERIALS WITHOUT VENTILATION, WHEELING AND TRAY DRYING.

THE RATING FOR DEGREE OF EXPOSURE SHOULD BE BASED ON NORMAL OPERATING CONDITIONS. A JUDGMENT MUST BE MADE FOR SPECIAL SITUATIONS (LEAKS, SPILLS, VAPOR RELEASE, ETC.) AS TO WHETHER OR NOT THEY OCCUR FREQUENTLY ENOUGH TO BE CONSIDERED A SIGNIFICANT SOURCE OF EXPOSURE. THE EXPOSURE RATINGS SHOULD BE BASED ON REGULAR OBSERVATIONS OF THE OPERATING PROCEDURES AND WORK PRACTICES EMPLOYED BY EACH OF THE OPERATORS IN A JOB CLASSIFICATION. IN SOME CASES, THESE OBSERVATIONS ALONE CAN LEAD TO REVISIONS IN OPERATING PROCEDURES THAT CAN REDUCE THE POTENTIAL FOR EXPOSURE.

HAZARD RATING

THE HAZARD RATING IS DEFINED AS FOLLOWS:

A NUMERICAL RATING RANGING FROM 1 (HIGH) THROUGH 5 (LOW) WHICH ESTIMATES THE PROBABILITY THAT AN INJURY OR OVEREXPOSURE WILL OCCUR IN A GIVEN SITUATION OR ENVIRONMENT. IT IS BASED ON THE DEGREE OF EXPOSURE AND THE PHYSICAL AND TOXIC PROPERTIES OF THE CHEMICAL. THE DEGREE OF EXPOSURE IS INFLUENCED BY THE TYPE OF PROCESS (OPEN VS CLOSED SYSTEM) AND THE TYPE OF OPERATION REQUIRED (MANUAL VS AUTOMATIC).

THE INDUSTRIAL HYGIENIST HAS THE RESPONSIBILITY FOR SETTING THE HAZARD RATINGS BASED ON HIS OBSERVATIONS OF THE PLANT, THE DEGREE OF EXPOSURE AND THE ABILITY OF THE MATERIAL (OR PHYSICAL STRESS) TO CAUSE INJURY. THE HAZARD RATING WILL BE UNIQUE FOR THE JOB CLASSIFICATIONS IN THAT PARTICULAR PLANT. WITHIN A GIVEN PLANT, THE HAZARD RATING FOR A CHEMICAL MAY BE DIFFERENT FOR THE VARIOUS JOB CLASSIFICATIONS BECAUSE OF A VARYING DEGREE OF EXPOSURE.

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PERSONNEL EXPOSURE DATE SHEET

VINYL CHLORIDE PLANT

NAME Beto Gas CLASSIFICATION Ship DATE 4-18-80

COMPOUNDS MEASURED	PPM MOLE 8 HOUR T.W.A.	PPM MOLE 15 MINUTE EXCURSION
Altazon E.	Disconnect 20' (2.01)	4.3 PPM
D. Bead	Disconnect 20' (2.01)	95 PPM

REMARKS:

Pumps calibrated prior to and after tests to determine liters pumped.

Checked with Marine Dept. - no problem with disconnect, suggested they be more careful with disconnects.

Notified Bead of over exposure.

Went to
Marine

PERSONNEL EXPOSURE DATE SHEET

VINYL CHLORIDE PLANT

NAME G.P. 802 CLASSIFICATION Barge DATE 3-29-80

COMPOUNDS MEASURED	PPM MOLE 8 HOUR T.W.A.	PPM MOLE 15 MINUTE EXCURSION
L. Barbier	disconnect 30' (3.0)	24.9 PPM
R. Pairs	disconnect 30' (3.0)	4.9 PPM

REMARKS:

Pumps calibrated prior to and after tests to determine liters pumped.

Notified Barbier that he was exposed to 24.9 PPM Vinyl on disconnect. Check Marine Supervision & they indicated no problem with disconnect.

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Jan Achord
Vinyl Chloride Plant

PERSONNEL EXPOSURE DATE SHEET

VINYL CHLORIDE PLANT

NAME G.P. 801 CLASSIFICATION Barge DATE 3-21-80

COMPOUNDS MEASURED	PPM MOLE 8 HOUR T.W.A.	PPM MOLE 15 MINUTE EXCURSION
<u>R. Seneca</u>	<u>Disconnect 30' (2.9)</u>	<u>36 PPM</u>
<u>B. Ferguson</u>	<u>Disconnect 30' (3.1)</u>	<u>24 PPM</u>

REMARKS:

Pumps calibrated Prior to and after tests to
determine liters pumped.

Notified Maine Supervision of over exposure,
log on barge 801 indicated no problems.

DO 102467
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Jan Achord
 Vinyl Chloride Plant

PERSONNEL EXPOSURE DATE SHEET

VINYL CHLORIDE PLANT

NAME Beta Gas CLASSIFICATION Ship DATE 3-19-80

COMPOUNDS MEASURED	PPM MOLE 8 HOUR T.W.A.	PPM MOLE 15 MINUTE EXCURSION
Carl Woods	Disconnect 45' 105cc	4.18 25.47 PPM
R. Seneca	Disconnect 45' 100cc	4.51 19.6 PPM

REMARKS:

Pumps calibrated prior to and after tests to determine liters pumped.

Ship Log indicated no problem.

Checked with Marine Supervision and asked them to make sure lines are pulled down good so as to eliminate vinyl vapors.

DO 102468
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Jan Achord
Vinyl Chloride Plant

PERSONNEL EXPOSURE DATE SHEET

VINYL CHLORIDE PLANT

NAME GP 801 CLASSIFICATION Berge DATE 3-9-80

COMPOUNDS MEASURED	PPM MOLE 8 HOUR T.W.A.	PPM MOLE 15 MINUTE EXCURSION
* <u>R. Seneca</u>	<u>Disconnect 40' 4.0P</u>	<u>12.0</u>
<u>Jock Mayo</u>	<u>Disconnect 40' 4.0P</u>	<u>4.6</u>

REMARKS:

Pumps calibrated prior to and after tests to
determine liters pumped

* Seneca was overexposed to Vinyl on this disconnect,
log indicated no problem with disconnect or vacuum.
Suggest paying attention to proper disconnect
procedures

Thanks
Mervin

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PERSONNEL EXPOSURE DATE SHEET

VINYL CHLORIDE PLANT

NAME GP-802 CLASSIFICATION Bug DATE 3-10-80

COMPOUNDS MEASURED

PPM MOLE 8 HOUR T.W.A.

PPM MOLE 15 MINUTE EXCURSION

* M. Gehling

Disconnect 35' (3.5P)

22 PPM

H. Cavaliere

Disconnect 35' (3.5P)

4.5 PPM

REMARKS:

Pumps Calibrated prior to and after test
to determine liters pumped.

Gehling was over exposed to Vinyl on this disconnect
has indicated no problems with disconnect or vacuum.
Suggest paying attention to proper disconnect
procedure.

Thanks

M. V. V. V.

DO 102471
CONFIDENTIAL

Buddy

PERSONNEL EXPOSURE DATE SHEET

VINYL CHLORIDE PLANT

NAME GP 801 CLASSIFICATION Buge DATE 3-4-80

COMPOUNDS MEASURED	PPM MOLE 8 HOUR T.W.A.	PPM MOLE 15 MINUTE EXCURSION
L. Barbier	Disconnect 45' (4.71)	2.94
F. Jackson	Disconnect 45' (4.51)	4.80

REMARKS:

Pumps calibrated prior to and after tests to determine liters pumped

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Jan Achord
Vinyl Chloride Plant

PERSONNEL EXPOSURE DATE SHEET

VINYL CHLORIDE PLANT

NAME Sofia Mersk CLASSIFICATION Ship DATE 2-27-80

COMPOUNDS MEASURED	PPM MOLE 8 HOUR T.W.A.	PPM MOLE 15 MINUTE EXCURSION
C. Young	Disconnect 50' 100cc (5.0P)	336.0
M. Gehling	Disconnect 45' 100cc (4.5P)	221.0

REMARKS:

Pumps calibrated prior to and after tests to determine
liters pumped.

Note: Informed Young & Gehling of overexposure
2-29-80.

log on Ship gave no indication of problem
during disconnect.

PERSONNEL EXPOSURE DATE SHEET

VINYL CHLORIDE PLANT

NAME Helice CLASSIFICATION Ship DATE 2-27-80

COMPOUNDS MEASURED	PPM MOLE 8 HOUR T.W.A.	PPM MOLE 15 MINUTE EXCURSION
F. Jackson	Disconnect 50' ^{100cc} (5.28)	.66
O'neal Bosley	Disconnect 50' ^{100cc} (5.02)	2.5

REMARKS:

Pumps Calibrated prior to and after tests to determine liters pumped

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Vinyl Chloride Plant

PERSONNEL EXPOSURE DATE SHEET

VINYL CHLORIDE PLANT

NAME 801 or 802 CLASSIFICATION Barge DATE 2-18-80

COMPOUNDS MEASURED	PPM MOLE 8 HOUR T.W.A.	PPM MOLE 15 MINUTE EXCURSION
B. Bolger	Disconnect 40' (4.0)	1.45
D. Dupuy	Disconnect 30' (3.0)	4.49

REMARKS:

Pumps calibrated pumps prior to and after tests to determine liters pumped.

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PERSONNEL EXPOSURE DATE SHEET

VINYL CHLORIDE PLANT

NAME Reina Del Rama CLASSIFICATION Barge DATE 2-17-80

COMPOUNDS MEASURED	PPM MOLE 8 HOUR T.W.A.	PPM MOLE 15 MINUTE EXCURSION
<u>H. Cavaliene</u>	<u>Disconnect 55' (5.5)</u>	<u>31.05</u>
<u>M. Gohling</u>	<u>Disconnect 55' (5.5)</u>	<u>16.36</u>

REMARKS:

Pumps Calibrated prior to and after tests
to determine liters pumped.

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Vinyl Chloride Plant

PERSONNEL EXPOSURE DATE SHEET

VINYL CHLORIDE PLANT

NAME Bolduri CLASSIFICATION Ship DATE 2-13-80

COMPOUNDS MEASURED	PPM MOLE 8 HOUR T.W.A.	PPM MOLE 15 MINUTE EXCURSION
B. Bolyer	Disconnect 30' (2.98)	4.99
D. Dupuy	Disconnect 30' (3.09)	.74 PPM

REMARKS:

Pumps calibrated prior to and after tests
to determine liters pumped

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Vinyl Chloride Plant

PERSONNEL EXPOSURE DATE SHEET

VINYL CHLORIDE PLANT

NAME 801 ~~802~~ CLASSIFICATION Barge DATE 2-8-80

COMPOUNDS MEASURED	PPM MOLE 8 HOUR T.W.A.	PPM MOLE 15 MINUTE EXCURSION
J. Lefebvre	Disconnect 45' ^{100cc} (4.57)	4.99 PPM
T. Sensat	Disconnect 45' (4.57)	4.30 PPM

REMARKS:

Pumps calibrated prior to and after tests to determine liters pumped.

DO 102478
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Jan Achord
Vinyl Chloride Plant

PERSONNEL EXPOSURE DATE SHEET

VINYL CHLORIDE PLANT

NAME Helice CLASSIFICATION Ship DATE 2-5-80

COMPOUNDS MEASURED	PPM MOLE 8 HOUR T.W.A.	PPM MOLE 15 MINUTE EXCURSION
R. Pearis	Disconnect ^{45"} (4.50)	4.95 PPM
T. Sensot	Disconnect ^{45"} (4.50)	2.64 PPM

REMARKS:

Pumps calibrated prior to and after tests
to determine liters pumped

DO 102479
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PERSONNEL EXPOSURE DATA SHEET

VINYL CHLORIDE PLANT

NAME Line Mark CLASSIFICATION Ship DATE 2-2-80

COMPOUNDS MEASURED	PPM MOLE 8 HOUR T.W.A.	PPM MOLE 15 MINUTE EXCURSION
<u>J Barlow</u>	<u>Disconnect 55' (5.4L)</u>	<u>1.15 ppm</u>
<u>B Ferguson</u>	<u>Disconnect 45' (4.7L)</u>	<u>125.53 ppm 1st Sect.</u>
		<u>52.55 ppm 2nd Sect.</u>

REMARKS:

Pumps Calibrated prior to and after test
to determine liters pumped

Letter written 2-7-80 to Ferguson

Vinyl I had problems pulling vacuum on line
which probably caused this over exposure.

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PERSONNEL EXPOSURE DATA SHEET

VINYL CHLORIDE PLANT

NAME OSCO Beduin CLASSIFICATION Ship DATE 1-30-80

COMPOUNDS MEASURED	PPM MOLE 8 HOUR T.W.A.	PPM MOLE 15 MINUTE EXCURSION
Harvey Cavaliere	Disconnect 65' (6.5l)	2.64 ppm
Martin Gehling	Disconnect 65' (6.8l)	4.41 ppm

REMARKS:

Note: Pumps calibrated prior to and after tests
to determine liters pumped.

DO 102481
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Vinyl Chloride Plant

PERSONNEL EXPOSURE DATA SHEET

VINYL CHLORIDE PLANT

NAME Reina del Rame CLASSIFICATION Barge DATE 1-25-80

COMPOUNDS MEASURED	PPM MOLE 8 HOUR T.W.A.	PPM MOLE 15 MINUTE EXCURSION
<u>R. Seneca</u>	<u>Decomposed 40' (4.4L)</u>	<u>0.74 ppm</u>
<u>J. Barlow</u>	<u>Decomposed 35' (3.5L)</u>	<u>0.65 ppm</u>

REMARKS:

Pumps Calibrated prior to and after test to
determine liters pumped

DO 102482
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Vinyl Chloride Plant

PERSONNEL EXPOSURE DATA SHEET

VINYL CHLORIDE PLANT

NAME GP-802 CLASSIFICATION Barge DATE 1-16 80

COMPOUNDS MEASURED	PPM MOLE 8 HOUR T.W.A.	PPM MOLE 15 MINUTE EXCURSION
<u>J. Lefebvre</u>	<u>Detained 30' (3.12)</u>	<u>2.40 ppm</u>
<u>O'Neil Basley</u>	<u>Detained 30' (3.02)</u>	<u>0.80 ppm</u>

REMARKS:

Pumps calibrated prior to and after tests to
determine liters pumped.

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PERSONNEL EXPOSURE DATA SHEET

VINYL CHLORIDE PLANT

NAME GP 801t CLASSIFICATION Vi Buqe GP801 DATE 1-13-80

COMPOUNDS MEASURED	PPM MOLE 8 HOUR T.W.A.	PPM MOLE 15 MINUTE EXCURSION
M. Gehling	Disconnect 1hr 25min (2.56)	1.76 ppm
E. Williams	Disconnect 1hr 25min (1.42)	0.40 ppm

REMARKS:

Pumps calibrated prior to and after tests to determine liters pumped

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PERSONNEL EXPOSURE DATA SHEET

VINYL CHLORIDE PLANT

NAME Heliese CLASSIFICATION Ship DATE 1-10-80

COMPOUNDS MEASURED	PPM MOLE 8 HOUR T.W.A.	PPM MOLE 15 MINUTE EXCURSION
Carl Woods	Disconnected 35 min	(3.12) 4.86 ppm
N. Washington	Disconnected 35 min	(3.22) 4.56 ppm

REMARKS:

Pumps calibrated prior to and after tests to
determine filter pumpers

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PERSONNEL EXPOSURE DATA SHEET

VINYL CHLORIDE PLANT

NAME Hesperus CLASSIFICATION Ship DATE 1-7-80

COMPOUNDS MEASURED	PPM MOLE 8 HOUR T.W.A.	PPM MOLE 15 MINUTE EXCURSION
<u>B. Ferguson</u>	<u>Disconnect 15' (1.5L)</u>	<u>7.13 ppm</u>
<u>Carl Wood</u>	<u>Disconnect 15' (1.5L)</u>	<u>3.22 ppm</u>

REMARKS:

Pumps calibrated prior to and after tests to
determine liters pumped

Log indicates that one of the cross-over
lines developed a small pin hole.

Letter written to Ferguson 1-11-80

DO 102486
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Jan Achord
Vinyl Chloride Plant

PERSONNEL EXPOSURE DATA SHEET

VINYL CHLORIDE PLANT

NAME Reina Del Rama CLASSIFICATION Barg DATE 1-3-80

COMPOUNDS MEASURED	PPM MOLE 8 HOUR T.W.A.	PPM MOLE 15 MINUTE EXCURSION
<u>D. Duxey</u>	<u>Disconnect 45' (4.52)</u>	<u>0.16 ppm</u>
<u>B. Boleyn</u>	<u>Disconnect 45' (4.52)</u>	<u>0.21 ppm</u>

REMARKS:

Pumps calibrated prior to and after tests to
determine filter pumpset

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PERSONNEL EXPOSURE DATE SHEET

VINYL CHLORIDE PLANT

NAME Sine Maersk CLASSIFICATION Ship DATE 4-17-80

COMPOUNDS MEASURED	PPM MOLE 8 HOUR T.W.A.	PPM MOLE 15 MINUTE EXCURSION
F. Jackson	Disconnect 25' (2.5)	3.0 PPM
G. Barbier	Disconnect 25' (2.5)	1.53 PPM

REMARKS:

Pumps calibrated prior to and after tests to determine
liters pumped.

Start 100cc

Stop 100cc

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Jan Achord
Vinyl Chloride Plant

PERSONNEL EXPOSURE DATE SHEET

VINYL CHLORIDE PLANT

NAME G.P. 801 CLASSIFICATION Barge DATE 4-11-81

COMPOUNDS MEASURED	PPM MOLE 8 HOUR T.W.A.	PPM MOLE 15 MINUTE EXCURSION
M. Gehling	Disconnect 15' <u>1.5P</u>	32 PPM
H. Cavaliere	Disconnect 15' <u>1.5P</u>	.2 PPM

REMARKS:

Pumps calibrated prior to and after tests to determine liters pumped.

Start: 100cc

Stop:

Checked with Mine Supervisor. no problems with disconnect; suggested disconnect procedures be gone over with Galt.

Notified Gehling of over exposure

Jan Achord
Vinyl Chloride Plant

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PERSONNEL EXPOSURE DATE SHEET

VINYL CHLORIDE PLANT

NAME Benghazi CLASSIFICATION Ship DATE 4-3-80

COMPOUNDS MEASURED	PPM MOLE 8 HOUR T.W.A.	PPM MOLE 15 MINUTE EXCURSION
D. Hammonds	Ship Disconnect 30' (3.0)	24 PPM
D. Beard	Ship Disconnect 30' (3.0)	71 PPM

REMARKS:

Pumps calibrated prior to and after tests
to determine liters pumped.

Checked with Marine Dept. - No problem with
disconnect, suggested that disconnect procedure
be followed closer.

Notified Beard and Hammonds of over
exposure

Thinks
Marvin Cox

PERSONNEL EXPOSURE DATA SHEET

VINYL CHLORIDE PLANT

NAME Bellona CLASSIFICATION Ship DATE 12-22-80

COMPOUNDS MEASURED	PPM MOLE 8 HOUR T.W.A.	PPM MOLE 15 MINUTE EXCURSION
G. Franklin	Disconnect 25' 2.5l	46 PPM
J. Mayo	Disconnect 25' 2.5l	220 PPM

REMARKS:

PUMPS CALIBRATED PRIOR TO AND AFTER TESTS TO DETERMINE LITERS PUMPED.

12-23-80

Notified Marine Supervisor of over exposure during disconnect. ~~Mike Miller~~ He informed me the ship log indicated a vapor leak from the ship load valve.

Thanks,

DO 102491
CONFIDENTIALMarvin Cox
Vinyl 1 Plant

PERSONNEL EXPOSURE DATA SHEET

VINYL CHLORIDE PLANT

NAME Pentland Glen CLASSIFICATION Ship DATE 12-8-80

COMPOUNDS MEASURED	PPM MOLE 8 HOUR T.W.A.	PPM MOLE 15 MINUTE EXCURSION
<u>E. Altazan</u>	<u>Disconnect 70' 7.0l</u>	<u>18.9 PPM</u>
<u>D. Hammonds</u>	<u>Disconnect 65' 6.5l</u>	<u>1.58 PPM</u>

REMARKS:

PUMPS CALIBRATED PRIOR TO AND AFTER TESTS TO DETERMINE LITERS PUMPED.

12-10-80

Machine Supervision tells me Ship log
indicated no problems with disconnect

Thanks,
Marvin

DO 102492
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Marvin Cox
Vinyl 1 Plant

PERSONNEL EXPOSURE DATA SHEET

VINYL CHLORIDE PLANT

NAME G.P. 801

CLASSIFICATION Barge

DATE 11-11-80

COMPOUNDS MEASURED

PPM MOLE 8 HOUR T.W.A.

PPM MOLE 15 MINUTE EXCURSION

B. Bolyer

Disconnect 15' 1.5p

4.8 PPM

REMARKS:

PUMPS CALIBRATED PRIOR TO AND AFTER TESTS TO DETERMINE LITERS PUMPED.

11-12-80

Good disconnect!

Thanks,

ox

DO 102493
CONFIDENTIAL

Marvin Cox
Vinyl 1 Plant

PERSONNEL EXPOSURE DATA SHEET

VINYL CHLORIDE PLANT

NAME G.P. 801 CLASSIFICATION Bug DATE 11-7-80

COMPOUNDS MEASURED	PPM MOLE 8 HOUR T.W.A.	PPM MOLE 15 MINUTE EXCURSION
F. Jackson	Disconnect 10' 1.0P	4.7
K. Barthel	Disconnect 10' 1.0P	1.3

REMARKS:

PUMPS CALIBRATED PRIOR TO AND AFTER TESTS TO DETERMINE LITERS PUMPED.

11-12-80

Good disconnect!

Thanks,
/ox

Marvin Cox
Vinyl 1 Plant

DO 102494
CONFIDENTIAL

PERSONNEL EXPOSURE DATA SHEET

VINYL CHLORIDE PLANT

NAME

Bolduri

CLASSIFICATION

Ship

DATE 11-22-80

[illegible]

REMARKS:

PUMPS CALIBRATED PRIOR TO AND AFTER TESTS TO DETERMINE LITERS PUMPED.

11-23-80

Good disconnect

Thanks

15. Maria

DO 102495
CONFIDENTIAL

Marvin Cox
Vinyl 1 Plant

PERSONNEL EXPOSURE DATA SHEET

VINYL CHLORIDE PLANT

NAME G.P. 802 CLASSIFICATION Barge DATE 11-5-80

COMPOUNDS MEASURED	PPM MOLE 8 HOUR T.W.A.	PPM MOLE 15 MINUTE EXCURSION
H. Cavalier	Disconnect 30' 3.0f	4.6
M. Gehling	Disconnect 30 3.0f	Pump Battery dead

REMARKS:

PUMPS CALIBRATED PRIOR TO AND AFTER TESTS TO DETERMINE LITERS PUMPED.

11-5-80

Good disconnect

Thanks,
Marvin

RECEIVED

NOV 11 1980

INLAND MARINE AND
TERMINAL SERVICES

Marvin Cox
Vinyl 1 Plant

DO 102496
CONFIDENTIAL

PERSONNEL EXPOSURE DATA SHEET

VINYL CHLORIDE PLANT

NAME G.P. 802 CLASSIFICATION Barge DATE 11-3-80

COMPOUNDS MEASURED	PPM MOLE 8 HOUR T.W.A.	PPM MOLE 15 MINUTE EXCURSION
B. Ferguson	Disconnect 10' 2.0l	48
J. LeFebvre	Disconnect 15' 2.5l	22.4

REMARKS:

PUMPS CALIBRATED PRIOR TO AND AFTER TESTS TO DETERMINE LITERS PUMPED.

11-6-80

No problem with disconnect.

Charles

Marvin

RECEIVED

NOV 11 1980

Marvin Cox
Vinyl 1 PlantINLAND MARINE AND
TERMINAL SERVICESDO 102497
CONFIDENTIAL

Buddy
McGraw

PERSONNEL EXPOSURE DATA SHEET

VINYL CHLORIDE PLANT

NAME G.P. 801 CLASSIFICATION Barge DATE 11-1-80

COMPOUNDS MEASURED	PPM MOLE 8 HOUR T.W.A.	PPM MOLE 15 MINUTE EXCURSION
D. Dupuy	Disconnect 2.0f	61 PPM
D. Beard	Disconnect 2.0f	3.8 PPM

REMARKS:

PUMPS CALIBRATED PRIOR TO AND AFTER TESTS TO DETERMINE LITERS PUMPED.

11-6-80

No problem with disconnect

Banks,

Marvin

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NOV 11 1980

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Vinyl 1 Plant

INLAND MARINE AND
TERMINAL SERVICES

DO 102498
CONFIDENTIAL

PERSONNEL EXPOSURE DATA SHEET

VINYL CHLORIDE PLANT

NAME G.P. 801 CLASSIFICATION Barge DATE 10-24-80

COMPOUNDS MEASURED	PPM MOLE 8 HOUR T.W.A.	PPM MOLE 15 MINUTE EXCURSION
M. Gehling	Disconnect 30' 3.0l	19 PPM
J. Mayo	Disconnect 30' 3.0l	3.2 PPM
		RECEIVED
		OCT 29 1980
		INLAND MARINE AND TERMINALS SERVICES

REMARKS:

PUMPS CALIBRATED PRIOR TO AND AFTER TESTS TO DETERMINE LITERS PUMPED.10-28-80Showed no problem with disconnectThank you,
MayoDO 102499
CONFIDENTIALMarvin Cox
Vinyl 1 Plant

Buddy Moore

4

[illegible]

PUMPS CALIBRATED PRIOR TO AND AFTER TESTS TO DETERMINE LITERS PUMPED.

10-24-80

Talked to Rob Duhon, at Marine Dept.
Checked Ship log for disconnect
problems - none indicated.

Thanks

Muscle

VINYL CHLORIDE PLANT

[illegible]

PUMPS CALIBRATED PRIOR TO AND AFTER TESTS TO DETERMINE LITERS PUMPED.

10-24-80

DO 102501
CONFIDENTIAL

Marvin Cox
Vinyl 1 Plant

Buddy Marlan

PERSONNEL EXPOSURE DATA SHEET

VINYL CHLORIDE PLANT

RECEIVED

OCT 22 1980

INLAND MARINE AND
TERMINALS SERVICES

NAME Reina Del Rama CLASSIFICATION Ship DATE 10-16-80

COMPOUNDS MEASURED	PPM MOLE 8 HOUR T.W.A.	PPM MOLE 15 MINUTE EXCURSION
H. Cavalier	40' Disconnect 4.0f	24.5 PPM
M. Gehling	40' Disconnect 4.0f	44.5

REMARKS:

PUMPS CALIBRATED PRIOR TO AND AFTER TESTS TO DETERMINE LITERS PUMPED.

10-20-80
Called Marine supervisor to check log on disconnect.
Ship log shows no problems.

Thanks,
Marvin

DO 102502
CONFIDENTIAL

Marvin Cox
Vinyl 1 Plant

VINYL CHLORIDE PLANT

CLASSIFICATION

DATE 10-14-80

RECEIVED
OCT 16 1940
INLAND MARINE ARM
TERMINALS SERVICE

PUMPS CALIBRATED PRIOR TO AND AFTER TESTS TO DETERMINE LITERS PUMPED.

Good disconnect!

Thanks, Marv

Marvin Cox
Vinyl 1 Plant

Sixty
Nine

PERSONNEL EXPOSURE DATA SHEET

VINYL CHLORIDE PLANT

NAME G. P. Barge 801 CLASSIFICATION Barge DATE 10-10-80

COMPOUNDS MEASURED	PPM MOLE 8 HOUR T.W.A.	PPM MOLE 15 MINUTE EXCURSION
B. Ferguson	Disconnect 40' 4.0l	49.5
P. Seneca	Disconnect 35' 3.5l	59.7 PPM

REMARKS:

PUMPS CALIBRATED PRIOR TO AND AFTER TESTS TO DETERMINE LITERS PUMPED.

10-13-80
Checked with Main Supervisor the log
indicated no problem
Thanks,
Marvin

DO 102504
CONFIDENTIAL

Marvin Cox
Vinyl 1 Plant

Bridges
Marine

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OCT 15 1980
INLAND MARINE AND
TERMINAL SERVICES

PERSONNEL EXPOSURE DATA SHEET

VINYL CHLORIDE PLANT

NAME G.P. 801 CLASSIFICATION Bdrge DATE 10-7-80

COMPOUNDS MEASURED	PPM MOLE 8 HOUR T.W.A.	PPM MOLE 15 MINUTE EXCURSION
E. Altazan	Disconnect 15' 1.5l	38.6 PPM
D. Hammonds	Disconnect 15' 1.5l	4.7 PPM

REMARKS:

PUMPS CALIBRATED PRIOR TO AND AFTER TESTS TO DETERMINE LITERS PUMPED.

10-9-80
Checked with Marine Supervision - the log
indicated no problem with disconnect

Thanks,
Marvin

Marvin Cox
Vinyl 1 Plant

DO 102505
CONFIDENTIAL

PERSONNEL EXPOSURE DATA SHEET

VINYL CHLORIDE PLANT

NAME G.P. 802 CLASSIFICATION Barge DATE 10-3-80

COMPOUNDS MEASURED	PPM MOLE 8 HOUR T.W.A.	PPM MOLE 15 MINUTE EXCURSION
B. Ferguson	Disconnect-35' 3.5-l	.11
R. Seneca	Disconnect-35' 3.5-l	128

REMARKS:

PUMPS CALIBRATED PRIOR TO AND AFTER TESTS TO DETERMINE LITERS PUMPED.

10-6-80

Checked with Maine supervision, no problems were indicated in log. Talked with Seneca, he indicated that they had low nitrogen pressure on the blow down of the lines.

Thacker,
Marvin

PERSONNEL EXPOSURE DATA SHEET

VINYL CHLORIDE PLANT

*Buddy
Moreau*NAME G. P. 802 CLASSIFICATION Barge DATE 10-1-80

COMPOUNDS MEASURED	PPM MOLE 8 HOUR T.W.A.	PPM MOLE 15 MINUTE EXCURSION
J. Lefebvre	Disconnect 15' 1.5P	.35
B. Ferguson	Disconnect 30' 3.0P	43.0

REMARKS:

PUMPS CALIBRATED PRIOR TO AND AFTER TESTS TO DETERMINE LITERS PUMPED.

10-3-80No problem noted with disconnectThanks,
MarvinDO 102507
CONFIDENTIALMarvin Cox
Vinyl 1 Plant

PERSONNEL EXPOSURE DATA SHEET

VINYL CHLORIDE PLANT

NAME Amelia CLASSIFICATION Ship DATE 9-29-80

COMPOUNDS MEASURED	PPM MOLE 8 HOUR T.W.A.	PPM MOLE 15 MINUTE EXCURSION
E. Altazan	Disconnect 27' 2.7l	48.8 PPM
D. Hammonds	Disconnect 27' 2.7l	35.9 PPM

REMARKS:

PUMPS CALIBRATED PRIOR TO AND AFTER TESTS TO DETERMINE LITERS PUMPED.

9-30-80

Checked with Marine supervision to look at
Ship log for problems with disconnect.
No problems indicated

Thanks,
Marvin

Marvin Cox
Vinyl 1 Plant

DO 102508
CONFIDENTIAL

11 Juddy Moore

PERSONNEL EXPOSURE DATA SHEET

VINYL CHLORIDE PLANT

NAME Benghazi

CLASSIFICATION Ship

DATE 9-8-80

COMPOUNDS MEASURED	PPM MOLE 8 HOUR T.W.A.	PPM MOLE 15 MINUTE EXCURSION
J. Lefebvre	Disconnect 50' 5.0f	49.6 PPM
R. Seneca	Disconnect 50' 5.0f	23 PPM

REMARKS:

PUMPS CALIBRATED PRIOR TO AND AFTER TESTS TO DETERMINE LITERS PUMPED.

9-9-80

Notified Marine Dept. of over exposure;
checked Ships log and found that the Ships
load header valve was leaking bad.

Benghazi will be notified to repair or change
out header valve.

Thanks,

Marvin

Marvin Cox
Vinyl 1 Plant

DO 102509
CONFIDENTIAL

VINYL CHLORIDE PLANT

[illegible]

PUMPS CALIBRATED PRIOR TO AND AFTER TESTS TO DETERMINE LITERS PUMPED.

8-29-80

LeFebvre + Ferguson over exposed on Vinyl for disconnect - Ship log indicated no problems.

Thanks,
Mark

Marvin Cox
Vinyl 1 Plant

VINYL CHLORIDE PLANT

[illegible]

PUMPS CALIBRATED PRIOR TO AND AFTER TESTS TO DETERMINE LITERS PUMPED.

1. Dock folks working short handed on this disconnect.
2. leaking bleed valve - not plugged, on seal piece.
3. Air on blower not turned on until well into disconnect.

I believe if not for above problems Harvey's sample would have been in compliance.

Thanks

222222

DO 102511
CONFIDENTIAL

Buddy Norman

Helice

CLASSIFICATION

Ship

DATE 5-12-80

[illegible]

GROUPS CALIBRATED PRIOR TO AND AFTER TESTS TO DETERMINE LITERS PUMPED.

Observed this disconnect - no problems.

Thank's
Mammoth

W. John Cox
W. yll 1 71 nt