



DOW CHEMICAL U.S.A.

REV
4/83

APRIL 28, 1983

LOUISIANA DIVISION
P. O. BOX 150
PLAQUEMINE, LOUISIANA 70764-0150
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DR. M. F. CURRIER - MEDICAL
TONY EKKER - MARINE
AL KIRBY - MARINE
CHARLIE HALPHEN - INDUSTRIAL HYGIENE
DANNIE KENNEDY - INDUSTRIAL HYGIENE

JS
7-23-84

ATTACHED IS A BENZENE PERSONNEL MONITORING SURVEY OF BARGE LOADING EXPOSURES SHOWING RESULTS OF BOTH PERSONNEL PPM AND URINARY PHENOLS FOR COMPARISON.

THE DIFFERENCE (DELTA PHENOL) BETWEEN PHENOL A.M. AND P.M. LEVELS DETERMINES EXPOSURE, AS THERE IS NORMALLY SOME PHENOL IN THE BODY FROM FOODS AND THEIR METABOLIC PRODUCTS.

75 MG PHENOL CORRESPONDS TO AN AIR LEVEL OF 10 PPM BENZENE, THE OSHA STANDARD.

J. L. Moreau, Jr.

J. L. MOREAU, JR.
INDUSTRIAL HYGIENE
RAILROAD/MARINE

LRJ

BENZENE
RGE

	<u>DATE</u>	<u>NAME</u>	<u>S.S. NO.</u>	<u>PERSONNEL</u> <u>SAMPLE PPM</u>	<u>MG PHENOL</u> <u>AM-PM</u>	<u>DELTA</u> <u>PHENOL</u>
DC-306	2-3-83	ALFRED WILSON	437-13-2018	26.48	3-18	+15
DC-306	2-3-83	CARL WOODS	438-11-9731	35.06	1-1	0
DC-306	2-3-83	NORRIS WASHINGTON	434-64-8694	0.04	5-3	-2
DC-349	2-13-83	FRANCIS BARLOW	437-58-8467	0.57	1-1	0
DC-349	2-13-83	PHILIP DOIRON	439-23-5347	171.98	7-4	-3
DC-349	2-13-83	FREDERICK JACKSON	437-90-8525	14.28	3-7	+4
DC-309	2-18-83	RUEL SENECA	439-98-2201	103.62	5-28	+23
DC-309	2-18-83	BRET FERGUSON	438-13-3680	31.34	2-12	+10
DC-309	2-18-83	JOHN LEFEBVRE	435-17-5371	0.12	7-6	-1
DC-310	2-24-83	RICHARD BEARD	437-60-4707	4.2	1-2	+1
DC-310	2-24-83	ANTHONY SENSAT	433-23-3875	14.6	6-29	+23
DC-374	3-8-83	RICHARD BEARD	437-60-4707	0.09	1-1	0
DC-374	3-8-83	BRET FERGUSON	438-13-3680	1.19	4-4	0
DC-374	3-8-83	JOHN LEFEBVRE	435-17-5371	0.07	5-10	+5
DC-374	3-8-83	ANTHONY SENSAT	433-23-3875	0.64	5-7	+2
DC-310	3-10-83	DALE HAMMONDS	436-04-4137	9.29	2-2	0
DC-310	3-10-83	STEVEN PREJEAN	437-04-4550	0.95	5-4	-1
DC-310	3-10-83	ANTHONY SENSAT	433-23-3875	0.43	8-24	+16
DC-306	3-29-83	ANTHONY SENSAT	433-23-3875	0.22	45-43	-2
DC-306	3-29-83	STEVE PREJEAN	437-04-4550	13.19	NO SPECIMENS	--
DC-306	3-29-83	DALE HAMMONDS	436-04-4137	28.81	14-15	+1
DC-306	4-11-83	NORRIS WASHINGTON	434-64-8694	0.09	97-77	-20
DC-306	4-11-83	ALFRED WILSON	437-13-2018	20.29	15-23	+8
DC-306	4-11-83	CARL WOODS	438-11-9731	3.24	4-4	0
DC-306	4-11-83	REGINALD WATTS	439-19-5274	30.42	22-34	+12