



DOW CHEMICAL U.S.A.

JUNE 22, 1982

LOUISIANA DIVISION
P. O. BOX 150
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DR. K. J. FLANAGAN - MEDICAL
TONY EKKER - MARINE
AL KIRBY - MARINE
CHARLIE HALPHEN - INDUSTRIAL HYGIENE
DANNIE KENNEDY - INDUSTRIAL HYGIENE

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

THE DIFFERENCE BETWEEN PHENOL A.M. AND P.M. LEVELS DETERMINES EXPOSURE, WITH ANY NUMBER BELOW 16 MG BEING CONSIDERED NORMAL. A LEVEL OF 75 MG PHENOL CORRESPONDS TO AN AIR LEVEL OF 10 PPM BENZENE, WHICH IS THE OSHA STANDARD.

WITH THE POSSIBLE EXCEPTION OF THE THREE HIGH PHENOLS, THESE FINDINGS INDICATE THAT EMPLOYEES ARE USING RESPIRATORS PROPERLY.

J. L. Moreau, Jr.

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

SG

<u>BENZENE BARGE</u>	<u>DATE</u>	<u>NAME</u>	<u>S.S. NO.</u>	<u>PERSONNEL SAMPLE PPM</u>	<u>MG PHENOL AM-PM</u>
PC-2506	1-22-82	STEVEN PREJEAN	437-04-4550	8.07	2-10 NORMAL
"	"	CALVIN YOUNG	438-56-9003	0.06	1-5 "
"	"	EDWARD ALTAZAN	437-02-3076	26.45	2-8 "
"	"	FRANCIS BARLOW	437-58-8467	0.66	1-1 "
DC-372	1-28-82	C. J. WOODS	438-11-9731	0.07	1-1 "
"	"	D. T. HAMMONDS	436-04-4137	4.56	1-1 "
PC-2506	2-10-82	B. W. BOLYER	435-84-9657	3.64	3-4 "
"	"	A. C. WILSON	437-13-2018	2.96	1-34 HIGH
"	"	R. C. WATTS	439-19-5274	3.49	3-25 "
"	"	N. WASHINGTON	434-64-8694	0.04	24-13 "
PC-2506	3-17-82	CALVIN YOUNG	438-56-9003	7.23	1-5 NORMAL
"	"	MARTIN GEHLING	437-02-0936	9.52	1.5-1 "
"	"	FRANCIS BARLOW	437-58-8467	8.49	1-6 "
DC-306	3-23-82	J. H. LEFEBVRE	435-17-5371	4.26	15-11.4 "
"	"	R. J. DUHON	436-76-7683	1.31	1.8-2.8 "
"	"	GARY BENSON	435-23-5281	35.90	0.5-3.7 "
DC-310	3-26-82	MARK HUTSON	433-04-8585	17.47	5-15 "
"	"	O'NEAL BOSLEY	439-90-9452	0.05	1-3 "
"	"	FREDERICK JACKSON	437-90-8525	23.96	1-4 "
DC-306	4-13-82	PHILIP DOIRON	439-23-5347	16.77	7-3 "
"	"	KEN BARTHEL	437-70-9689	53.08	11-1 "
"	"	HARVEY CAVALIERE	435-80-5906	0.46	2-1 "