



DOW CHEMICAL U.S.A.

OCTOBER 16, 1985

LOUISIANA DIVISION
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TONY GRANT - RAILROAD
BILL HERRIN - RAILROAD
O. C. DICKERSON - RAILROAD
GLYNN SMITH - TANK CAR CLEANING
DANNIE KENNEDY - INDUSTRIAL HYGIENE
CHARLIE HALPHEN - INDUSTRIAL HYGIENE
JOHN MCBRIDE - SAFETY

THE ATTACHED NOISE SURVEYS WERE MADE BY MONITORING EMPLOYEES WITH BRUEL & KJAER TYPE 4431 DOSIMETERS TO DETERMINE NOISE EXPOSURES DURING THE NORMAL WORK DAY. 100% REPRESENTS MAXIMUM ALLOWABLE EXPOSURE, EQUIVALENT TO 85 DECIBELS (DBA) FOR A DURATION OF 8 HOURS.

DUE TO INCREASED WORK LOAD AND THEREFORE MORE NOISE EXPOSURE, NEW METHODS HAVE BEEN IMPLEMENTED TO REDUCE EMPLOYEE EXPOSURE. ATTENTION HAS BEEN GIVEN TO PROBLEM AREAS, POSITIVE ACTION HAS BEEN TAKEN, AND MUCH PROGRESS HAS BEEN MADE IN NOISE CONTROL.

IT IS THE RESPONSIBILITY OF SUPERVISION TO ENFORCE THE WEARING OF PROPER HEARING PROTECTION BY ALL PERSONNEL DURING NOISY OPERATIONS.

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CC: BULLETIN BOARD - RAILROAD
" " - TANK CAR CLEANING

RAILROAD SWITCHING CREW

<u>DATE</u>	<u>DOSIMETER #</u>	<u>NAME</u>	<u>JOB</u>	<u>DURATION</u>	<u>% ALLOWABLE EXPOSURE</u>
7/9	839610	J. DUNN	FOREMAN	700AM-300PM	104
"	839611	R. CHEMIN	PIN PULLER	"	106
"	839609	D. WELLS	FIELDMAN	"	30
"	839608	L. PUGH	ENGR.	"	97
7/9	839610	K. DAIGLE	FOREMAN	715PM-305AM	72
"	839611	C. NEW	PIN PULLER	"	99
"	839609	J. RICHARD	FIELDMAN	"	41
"	839608	L. JACKSON	ENGR.	"	120
7/11	839610	L. PARALT	FIELDMAN	700AM-300PM	44
"	839608	C. MATTHEWS	FOREMAN	"	26
"	839611	T. DENTON	ENGR.	"	99
7/11	839608	J. QUEBEDEAUX	ENGR.	740PM-215AM	103
"	839611	D. DUGAS	FOREMAN	"	50
"	839610	R. FALLIN	PIN PULLER	"	54
7/12	839611	L. PARALT	PIN PULLER	700AM-300PM	89
"	839608	P. POLITZ	FOREMAN	"	26
"	839610	T. DENTON	ENGR.	"	127

CONCLUSION:

RADIO EQUIPPED HEAD SET HEARING PROTECTORS HAVE BEEN ORDERED AND WILL BE WORN BY ENGINEER. RADIO EQUIPPED EAR PLUG TYPE HEARING PROTECTORS HAVE BEEN ORDERED AND WILL BE WORN BY SWITCHMEN. THESE HAVE BEEN TESTED IN THE FIELD AND PROVEN EFFECTIVE AND CONVENIENT FOR THIS OPERATION.

AS IN PREVIOUS NOISE SURVEYS, IT IS STILL RECOMMENDED THAT HEARING PROTECTION BE WORN BY ANYONE RIDING FRONT OF ENGINE WHEN HORN IS BLOWING AND ALSO IN OTHER AREAS OF HIGH NOISE LEVELS.

TANK CAR CLEANING

<u>DATE</u>	<u>DOSIMETER #</u>	<u>NAME</u>	<u>JOB</u>	<u>DURATION</u>	<u>% ALLOWABLE EXPOSURE</u>
9/10	839608	KEVIN ENNIS	LABORER	730AM-300PM	55
"	839609	H. WALKER	"	"	13
"	839610	ERNEST DOMINIQUE	"	"	9
"	839611	W. LAYNES	"	"	28
9/11	839608	H. WALKER	"	715AM-300PM	39
"	839609	K. ENNIS	"	"	86
"	839610	W. LAYNES	"	"	102
"	839611	ERNEST DOMINIQUE	"	"	24
9/12	839608	L. JACKSON	"	730PM-300AM	51
"	839609	W. JOHNSON	"	"	23
"	839610	M. OSBORNE	"	"	195
9/13	839608	EDWARD DOMINIQUE	"	715AM-315PM	30
"	839609	W. EDWARDS	"	"	293
"	839610	W. LAYNES	"	"	132
"	839611	ERNEST DOMINIQUE	"	"	35
9/16	839609	W. JOHNSON	"	700PM-300AM	33
"	839610	W. LAYNES	"	"	298
"	839611	ERNEST DOMINIQUE	"	"	50

CONCLUSION:

AS IN PREVIOUS NOISE SURVEYS, RECOMMEND CONTINUED WEARING OF HEARING PROTECTION WHEN EXPOSED TO HIGH NOISE LEVELS. EXPOSURES CAN BE REDUCED BY ROTATING EMPLOYEES IN HIGH EXPOSURE JOBS. ENFORCE THE USE OF MUFFLERS WHERE APPLICABLE.

RAILROAD TIE TAMPER

<u>DATE</u>	<u>DOSIMETER #</u>	<u>NAME</u>	<u>JOB</u>	<u>DURATION</u>	<u>% ALLOWABLE EXPOSURE</u>
10/4/85	839608	B. PICKERING	IN CAB- OPERATOR	755AM-310PM	26
"	839611	F. WHITE	OUTSIDE- ON GROUND	"	122
10/9/85	839608	B. PICKERING	IN CAB- OPERATOR	710AM-310PM	31
"	839611	F. WHITE	OUTSIDE- ON GROUND	"	122

CONCLUSION:

RECOMMEND CONTINUED WEARING OF HEARING PROTECTION BY MAN
WORKING ON GROUND WHEN IN CLOSE PROXIMITY TO TAMPER WHEN
TAMPER IS OPERATING.

RAILROAD TRACK MAINTENANCE

<u>DATE</u>	<u>DOSIMETER #</u>	<u>NAME</u>	<u>EQUIPMENT OPERATED/JOB</u>	<u>DURATION</u>	<u>%ALLOWABLE EXPOSURE</u>
7/17	839608	EUGENE VALLERE	TRACK WORK	700AM-330PM	75
"	839610	LEONARD FIELDS	BULLDOZER	"	106
"	839611	SAMUEL MARTIN	SPIKE DRIVER	"	251
7/18	839608	LEONARD FIELDS	TIE PULLER	700AM-330PM	139
"	839610	HOWARD DUPLECNAIN	SPIKE DRIVER	"	227
"	839611	B. T. WASHINGTON	FOREMAN	"	102
7/22	839608	FRANK WHITE	TIE PULLER	700AM-330PM	71
"	839610	CARLTON SAM	SPIKE DRIVER	"	176
"	839611	GLOSTER MELANCON	SPIKE DRIVER	"	156
7/24	839608	EUGENE VALLERE	TRACK WORK	700AM-330PM	60
"	839610	B. T. WASHINGTON	FOREMAN	"	87
"	839611	HOWARD DUPLECHAIN	TRACK WORK	"	75

CONCLUSION:

RECOMMEND CONTINUED WEARING OF HEARING PROTECTION WHEN OPERATING OR IN CLOSE PROXIMITY TO HIGH NOISE EQUIPMENT, PARTICULARLY SPIKE DRIVER AND TIE PULLER, AS OUTLINED ON NEXT PAGE. ROTATE EMPLOYEES IN HIGH NOISE LEVEL JOBS TO MINIMIZE EXPOSURE.

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RAILROAD TRACK MAINTENANCE EQUIPMENT
RESULTS SHOWN IN DECIBELS
INSTRUMENT USED B&K SOUND LEVEL METER TYPE 2219

PORTABLE AIR COMPRESSOR 7/22/85
NORMALLY NO ONE CLOSE AFTER STARTING COMPRESSOR

	<u>IDLING</u>	<u>UNDER LOAD</u>
3 FT.	92	96
6 FT.	85	88
9 FT.	82	86

SPIKE DRIVER (AIR DRIVEN) 7/18/85
TWO MEN LINING TIES & SETTING SPIKES WITHIN 5-6 FT. OF OPERATOR

OPERATOR	
HEARING ZONE	109
5 FT.	106
10 FT.	103
15 FT.	97
20 FT.	95
25 FT.	92
30 FT.	88
35 FT.	85

TIE PULLER (GAS DRIVEN) 7/24/85
2 OR 3 MEN GUIDING TIES WITHIN 6-8 FT. OF OPERATOR

	<u>IDLING</u>	<u>UNDER LOAD PULLING TIE</u>
OPERATOR		
HEARING ZONE	84	98
5 FT.	81	94
8 FT.	77	91
10 FT.	75	89
15 FT.		85

LIFT TRUCK 7/24/85

	<u>IDLING</u>	<u>UNDER LOAD LIFTING</u>
OPERATOR		
HEARING ZONE	76	80-87

LABORER DRIVING SPIKES WITH SPIKE MAUL - AT HEARING ZONE 78-84

LABORER SHOVELING ROCK TRACK BALLAST - AT HEARING ZONE 88-92