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DOW CHEMICAL U.S.A.

LOUISIANA DIVISION
PLAQUEMINE, LOUISIANA 70764
504 687-4321

March 20, 1975

TO ALL LHC #2 EMPLOYEES

For your information:

As most of you already know, we have been striving over the past couple of years to lower the noise level in some of the high noise level areas of the plant. Experimentation has been going on with several types of noise reducing materials and devices.

Over the past several months the sound shield insulation which includes a lead barrier has been installed on 2D-1 A, B, C and on 2D-13, as well as some of the equipment and piping on the suction side of 2K-71 A. This has produced a significant decrease in the noise generated by this equipment. Also the installation of burner mufflers on our cracking furnaces is aiding in reducing noise levels.

This reduction of noise does not allow us to eliminate our hearing protection requirement because we are still above the maximum of 90 decibels. Hopefully, however, continued efforts in the future will enable us to isolate this requirement to a much smaller area of the block.

Attached are some results of some before and after noise surveys which have been conducted. This will show you some of the progress we are making toward noise reduction.

R. J. Longuepee
Light Hydrocarbon #2

gc

attachment

AN OPERATING UNIT OF THE DOW CHEMICAL COMPANY



DO 079320
CONFIDENTIAL

SOUND READINGS

BEFORE SOUND INSULATION

ZD-1A,B,C	A	ALL PASS	16K	8K	4K	2K	1K	500	250	125	63	31.5
E. END	86	90	60	70	75	79	80	87	84	76	80	79
A. N	92	95	56	69	77	82	87	92	90	77	77	79
B. N	100	103	58	71	81	86	95	102	96	85	79	79
C. N	95	98	58	72	79	84	88	95	92	78	79	78
W. END	91	93	64	76	82	85	85	90	86	78	82	78
A. S	94	97	64	76	83	86	89	94	90	79	81	79
B. S	101	103	65	77	85	89	95	102	98	85	78	79
C. S	93	96	64	74	80	83	88	94	90	78	78	79

AFTER SOUND INSULATION

ZD-1A,B,C	A	ALL PASS	16K	8K	4K	2K	1K	500	250	125	63	31.5
E END	82	86	60	70	75	80	76	77	76	78	80	79
A. N	87	90	62	73	79	83	81	82	81	84	8	78
B. N	90	93	62	75	82	85	83	84	85	84	79	77
C. N	90	91	61	74	82	86	84	82	81	79	79	76
W END	90	91	62	75	81	86	84	85	79	8	81	77
A. S	91	92	63	76	83	87	86	84	81	82	8	78
B. S	93	94	65	78	85	89	87	86	84	87	80	77
C. S	89	91	64	74	81	84	83	83	81	84	82	88