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7647VPLAINTIFF'S
EXHIBIT

DOW 72

LOUISIANA DIVISION
PLAQUEMINE, LOUISIANA 70784
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INDUSTRIAL HYGIENE REPORT

SEMIANNUAL ASBESTOS SURVEY
NEW CELL SERVICE, BUILDING 5601
LOUISIANA DIVISIONCRI NO. _____
FILE NO. LAD-IH-77.04
DATE May 9, 1977
AUTHOR Dannie KennedyCHECKED *Charles Halysh*
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SUMMARY

The semiannual asbestos in air survey was conducted in the New Cell Service facility (Block 56).

The results of 10 samples ranged from a high of 0.58 to a low of 0.01 fibers per cubic centimeter greater than 5 microns in length. The results are all below the present TLV (threshold limit value) established by the OSHA Act. However, 3 of the samples recorded relatively high numbers (see results sheet) of 0.58, 0.39 and 0.20 fibers per cubic centimeter which would fail to meet the proposed standard of 0.1 fibers.

Good housekeeping, careful safe handling procedures and complete employee cooperation are a must to ensure that we maintain a good safe work environment.

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INTRODUCTION

The semiannual asbestos in air survey has been conducted for the first half of 1977. The results were all below the present TLV established by OSHA.

METHOD

The asbestos samples were collected from the operators' breathing zone by employing a 37 millimeter millipore filter mounted in an open face filter holder. The air was drawn through the filter with a pump calibrated to run at or near 2 liters per minute.

Slides were prepared and observed under the microscope with a magnification setting of 500. Fibers, 5 microns in length or longer, were counted to determine the fiber concentration present in the calculated volume of air.

RESULTS

The monitoring results were all below the present asbestos standard of 2 fibers per cubic centimeter greater than 5 microns in length. However, 3 of the samples were relatively high, measuring 0.20, 0.39 and 0.58 fibers per cubic centimeter (see results sheet). These 3 samples would fail to meet the new proposed standard of 0.1 fiber per cubic centimeter.

RECOMMENDATIONS

Some key safety points to remember when handling asbestos will be re-emphasized here as they are essential to our employees health and well-being.

Operators are required to wear paper suits, rubber gloves and approved respirators whenever asbestos is being handled (the Stock Department has on hand the MSA Comfo respirator Type BM 2301, with the asbestos dust covers).

The asbestos should always be handled wet (the sacks should be wet down before cutting open). Practice good handling techniques to avoid spilling asbestos. All efforts should be made to prevent asbestos from becoming airborne. After the job is completed, asbestos waste and empty asbestos sacks should be sealed and labeled in impermeable bags and containers. The asbestos should never be blown or shook off the contaminated suits. It should be vacuumed and placed in the proper designated containers.

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Always wash hands after handling asbestos and never carry cigarettes or candy in pockets while working with asbestos. The last point is to always be on the alert for problem areas, report them to supervision and have the area monitored if it is suspect.

CONCLUSIONS

The survey results indicate that we are below the present TLV, however, as mentioned, the new standard being proposed would lower the TLV to 0.1 fibers per cubic centimeter. This new standard will require each person to very strictly follow all safe handling procedures, practice good housekeeping, and constantly be on the alert for problem areas if we are to meet the new proposed regulation.

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ASBESTOS SURVEY
NEW CELL SERVICE - BUILDING 5601

RESULTS FIBERS/cc > 5 MICRONS					
SAMPLE NO.	IN LENGTH	SAMPLING PERIOD	DATE	SAMPLE DESCRIPTION	
1	0.01	6 hr, 25 min	2/9/77	Stationary Sample - asbestos storage room - caught near conveyor controls. No work activity in area during sampling period.	
2	0.58	15 min	3/3/77	OTT: <i>Redacted</i> loading sacks of South African Blue, Hooker No. 1 and Hooker No. 2 asbestos on conveyor in asbestos storage room for 15 minutes. (When in normal production this 15-minute job is performed twice per 8-hour shift.)	
3	0.20	15 min	3/3/77	OS Fr <i>Redacted</i> observing debagging operation in asbestos storage room.	
4	0.03	7 hr, 45 min	3/10/77	Stationary sample caught underneath conveyor belt in asbestos storage room. One 15-minute loading operation occurred during sampling.	
5	0.01	7 hr, 40 min	3/10/77	Stationary sampler set up near exhaust blower of cathode baking oven.	
6	0.01	10 hr, 45 min	3/10/77	SOT <i>Redacted</i> working in cathode drawing area - also spent 30 minutes unloading cathodes from cathode baking oven.	
7	Pump knocked over - sample destroyed				
8	0.03	9 hr	4/14/77	Stationary sample - north side of roto clone - six feet above the ground.	

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<u>SAMPLE NO.</u>	<u>RESULTS</u> <u>FIBERS/cc</u> <u>> 5 MICRONS</u> <u>IN LENGTH</u>	<u>SAMPLING PERIOD</u>	<u>DATE</u>	<u>SAMPLE DESCRIPTION</u>
9	0.39	8 hr, 50 min	4/14/77	SOT <i>Reduced</i> working cathode hook-up job in the cathode drawing area.
10	0.07	8 hr, 50 min	4/14/77	OS <i>Reduced</i> t working cathode hook-up job in the cathode drawing area. Also unloaded a truck load of Hooker No. 2 asbestos and stored it in the asbestos storage room.
11	0.01	7 hr, 45 min	4/15/77	Stationary sample caught on top of Fisher oven in lab (duplicate of sample No. 7 which was destroyed).

Note: Operator classifications do not relate to a specific job. All operators work the various jobs in the Cell Service building.

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5/10/77

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