

TABLE 1  
SAMPLING RESULTS - CHALMETTE WORKS  
MARINITE FABRICATING FACILITIES  
ASBESTOS EXPOSURE  
DATE SAMPLED - JANUARY 10, 1974

| <u>Sample Number</u>                                              | <u>Description</u>                                                                                             | <u>Sample Duration Minutes</u> | <u>Asbestos Fibers per CC of Air</u> |
|-------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|--------------------------------|--------------------------------------|
| 1151                                                              | Breathing Zone<br>Carpenter<br>A. Menesses #9763<br>Cutting Prototype Marinite<br>on band saw (feeding)        | 60                             | 1.2                                  |
| 1152                                                              | Breathing Zone<br>Carpenter<br>J. Wallace #3269<br>Cutting Prototype Marinite<br>on band saw (Receiving)       | 60                             | 1.9                                  |
| 1153                                                              | Breathing Zone<br>Carpenter<br>J. Wallace #3269<br>Drilling and Reaming Prototype<br>Marinite (#4 Drill Press) | 60                             | 1.3                                  |
| 1155                                                              | Blank                                                                                                          | --                             | None Detected                        |
| 145                                                               | Shop Area Samples taken                                                                                        | 452                            | 1.1                                  |
| 152                                                               | May 7, 1973 as background                                                                                      | 29                             | 1.7                                  |
| 154                                                               | for Shop with no operations<br>being performed                                                                 | 57                             | 1.1                                  |
| OSHA Ceiling Contration Limit<br>(Not to be exceeded at any time) |                                                                                                                | 10                             | 10                                   |
| Threshold Limit Value                                             |                                                                                                                | 480 (TWA)                      | 5 (presently)<br>2 (after 7-1-76)    |

TABLE 2  
SEMIQUANTITATIVE EMISSION SPECTROGRAPHIC ANALYSIS  
JOHNS MANVILLE "PROTOTYPE ASBESTOS FREE MARINITE"

By Center for Technology - E. O. Strahl

| <u>Oxide</u>                   | <u>%</u> | <u>Oxide</u>                   | <u>%</u> |
|--------------------------------|----------|--------------------------------|----------|
| Al <sub>2</sub> O <sub>3</sub> | 28       | Na <sub>2</sub> O              | .2       |
| SiO <sub>2</sub>               | 30       | Cr <sub>2</sub> O <sub>3</sub> | .07      |
| Fe <sub>2</sub> O <sub>3</sub> | 8.6      | MnO                            | .06      |
| CaO                            | 15.4     | V <sub>2</sub> O <sub>5</sub>  | .02      |
| TiO <sub>2</sub>               | 1.2      | CuO                            | .002     |
| MgO                            | 2.0      |                                |          |

PLAINTIFF'S  
EXHIBIT

WV-021351

R 000608

PLAINTIFF'S  
EXHIBIT

78159.01

TABLE 3  
SEMIQUANTITATIVE X-RAY DIFFRACTION ANALYSIS  
JOHNS MANVILLE "PROTOTYPE ASBESTOS FREE MARINITE"  
By Center for Technology - E. O. Strahl

| <u>Phase</u>                                                                    | <u>Amount</u> |
|---------------------------------------------------------------------------------|---------------|
| Mayenite (Calcium Aluminum Oxide, $\text{Ca}_{12}\text{Al}_{14}\text{O}_{22}$ ) | Major         |
| Quartz                                                                          | Trace - Minor |
| Feldspar                                                                        | Trace - Minor |
| Hematite ( $\text{Fe}_2\text{O}_3$ )                                            | Trace         |
| Poorly Crystalline Material                                                     | Major         |
| Partially Calcined Clay Minerals                                                | Trace         |

Major = >20%

Minor = 5 - 20%

Trace = <5%