CONFIDENTIAL

OFFICE MEMO

BROWN & ROOT, INC.

TO: Fred J. Salmon, Senior Manager DATE: November 15, 1977
FROM: Carl Richardson, Corporate Industrial Hygienist
SUBJECT: Asbestos

For your information please find attached a log of all Brown & Root Asbestos Monitoring and Results up to October, 1977. As you can see, there are a few areas where action is needed and has been initiated. As we perform further monitoring, this log will be up-dated.

This log will be kept in the Industrial Hygiene Asbestos Files as "CONFIDENTIAL".

Carl Richardson

Carl Richardson, Industrial Hygienist
Safety and Health Department

CR/db

Attachment

PLAINTIFF'S EXHIBIT
tabbies®
B&R-62

BROWN & ROOT ASBESTOS MONITORING
AND RESULTS AS OF OCTOBER, 1977

| OPERATION | SAMPLING LOCATION | DATE | CONC. FIBERS/CC | REMARKS | STATUS* |
|---|---|---|---|---|---|
| Stress Relief Asbestos Blankets | LaGrange, Tex. 35-5019 | 10/6/77 | 4.9<br>1.11(C) | Asbestos Blankets Very old - continuous wrapping of pipe | Above the OSHA Limits Blankets to be substituted with fiberglas material |
| Transite Siding Dry Cutting | Deer Park, Tex. 34-1236 | 8/2/77 | 0.44<br>0.31 | Electric Saw utilized | Below the OSHA Limits Med. Surv. would be required |
| Transite Siding<br><br>Wet Cutting | Morrison, Okla. 35-5023 | 5/11/77 | 0.07<br><br>0.05 | Air Saw with stream of water utilized | Below the OSHA Limits<br><br>Below Med. Surv. Levels |
| Cadweld Asbestos Rope | Bay City, Tex. 35-1197 | 8/12/76 | 0.02<br>0.03<br>0.09<br>0.14<br>0.20 | Cadwelder - Wraps<br>Cadwelder - Wraps<br>Cadwelder - Wraps & Brushes<br>Helper - Wraps & Brushes<br>Helper - Wraps & Brushes | Below the OSHA Limits Med. Surv. would be required on most of men. Work was in poorly ventilated area. |
| | Glen Rose, Tex. 35-1195 | 10/22/76 | 0.07<br>0.035 | Cadwelder in open area | Below the OSHA Limits<br>Below Med. Surv. Levels |
| | Glen Rose, Tex. 35-1195 | 2/2/77 | 0.02<br>0.03<br>0.02<br>0.025 | Cadwelders were on outside of reactor in a strong wind | Below the OSHA Levels<br>Below Med. Surv. Levels |
| Cement Pipe with Asbestos | Corpus Christi, Tex. 27-1248 | 10/3/77 | 0.018<br>0.019<br>0.53(C) | Manual cutting of pipe in strong wind. | Below OSHA Levels<br>Below Med. Surv. Levels except Ceiling Sample - more data needed |
| Demolition Asbestos Insulation | Rivercrest, Tex. 35-4017 | 7/13/77 | 0.11<br>0.09<br>0.40<br>3.7(C)<br>3.0(C) | Old insulation (Asbestos) with fiberglas (mixed) insulation - recent repairs Ceiling taken during clean-up sweeping | Below OSHA Levels<br>Med. Surv. would be required |

| | | | | | |
|---|---|---|---|---|---|
| Brake and Clutch Work | Clinton Drive Shop-Garage | 7/12/76 | 0.28<br>0.79(C) | Brake Shoe Beveling Machine - removed | Below the OSHA Limits<br>Med. Surv. would be required |
| | | | 0.02<br>0.18(C) | Utilized Air Gun to clean drums of Auto | Below the OSHA Limits<br>Below Med. Surv. Levels |
| | | 7/15/76 | 0.02<br>0.25(C) | Wet cleaning of Cherry-Picker Brake Drums | Below the OSHA Limits<br>Below Med. Surv. Levels |
| | | | 0.37<br>0.04(C) | Cherry-Picker Brake Shoes Grinds Shoes with Buffer and File | Below the OSHA Limits<br>Med. Surv. required<br>Grinding Discontinued |
| | | 7/22/76 | 0.07 | Clutch Work | Below the OSHA Limits<br>Below Med. Surv. Levels |

(C) - Ceiling Sample
* - Status

OSHA Limits - 2 Fibers/CC for 8-hour Period
10 Fibers/CC Ceiling for 15-minute Period
OSHA Med. Surv. Policy - 0.1 Fibers/CC for 8-hour Period
0.5 Fibers/CC Ceiling for 15-minute Period