



REPORT ON SERVICE NUMBER 4328
November 26, 1980

To: Mr. Steve Sellers
Brown & Root Inc., Houston, TX

Analysis: Fifteen membrane filter samples and one blank for asbestos fiber count.

Method: NIOSH Procedure P&CAM 239.

Filter wedges are examined at 450X using polarizing and phase contrast microscopes. Birefringent fibers longer than 5 microns with a length-to-width ratio of 3:1 or more are counted as asbestos.

Results:	Sample Number	Total Fibers less blank	Air Volume liters	Air Concentration fibers/cc
	80-027E	24,400.	16.	1.5
	80-028C	3,700.	476.	LT(.01)
	80-029F	7,800.	20.	0.39
	80-030E	3,700.	62.	0.06
	80-031E	11,700.	38.	0.31
	80-032M	25,400.	36.	0.71
	80-033F	13,700.	38.	0.36
	80-034E	26,300.	526.	0.05
	80-035F	78,200.	20.	3.9
	80-036F	27,400.	18.	1.5
	80-037M	31,300.	24.	1.3
	80-038M	ND(1,200.)	10.	ND(.2)
	80-039E	34,200.	20.	1.7
	80-040F	61,600.	16.	3.8
	80-041C	3,700.	126.	0.03

ARM 929

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ARM000060

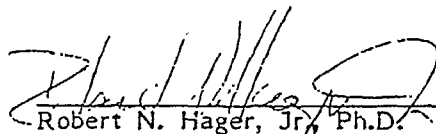
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Discussion: ND() indicates none of the substance was detected, with a detection limit shown in the parentheses. LT() indicates "less than" with a detection limit shown in the parentheses.

The OSHA permissible exposure limit (PEL) for asbestos is 2 fibers/cc.

Raw data is filed and available upon request.

Submitted by:


Robert N. Hager, Jr., Ph.D.
Laboratory Director

RNH/mff

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