Monsanto

PLAINTIFF'S EXHIBIT

MON-2574

FROM (NAME—LOCATION—PHONE) G.T. Butler - Chocolate Bayou Plant - 4444

DATE : April 16, 1986

SUBJECT : SPIRAL WOUND GASKET TESTING

REFERENCE :

TO : P.L. Sharp

CC. R.C. Fisher
M.B. Gray
R.S. Ingersoll
D.C. Pickett

This memo will document the gasket tests that were recently conducted at Chocolate Bayou by G.T. Butler and P.L. Sharp, as assisted by Howard Johnson, Bob Rogers, Ralph Kreger and Harold Petersen. These tests were conducted to evaluate the sealing capability of the newly proposed "softer" spiral wound gasket (5,000 psig compressive seating stress), when compared with that of the currently used 10,000 psig compressive seating stress, standard hard density winding spiral wound gasket. All of the 5 minute duration tests were conducted indoors, under laboratory conditions using ambient temperature helium gas as the pressure medium, in conjunction with 150# raised face weld neck flanges and with 5,000 psig spiral wound gaskets, using type 316SS winding material with flexible graphite filler material.

As based upon the results of these tests, no detectable leakage was noted while using the 5,000 psig spiral wound gasket, while using the bolting materials noted. Therefore, this data may be regarded as resource information for further consideration by your group as to the use of this type of gasket, when compared with the metal reinforced flexible graphite sheet gasketing, such as the Union Carbide style GHE.

G.T. Butler

GTB/edp

Attachment

IN - 10 (REV 8/77)

C 003994

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PIPE FLANGE SIZE (INCHES)	FLANGE BOLT METALLURGY	NUMBER OF BOLTS	BOLT DIAMETER (INCHES)	TEST PRESSURE (PSIG)
1	B8M Class 2 316SS Strain hardened	4	½	95
1	Ditto	4	½	165
2	Ditto	4	5/8	95
2	Ditto	4	5/8	165
3	Ditto	4	5/8	95
3	Ditto	4	5/8	165
6	B7 - 4140 Low Alloy Carbon Steel	8	3/4	104
6	Ditto	8	3/4	190
6	B8M Class 2 316SS Strain Hardened	8	3/4	100
6	Ditto	8	3/4	180
6	B8M Class 1-316SS Non-strain Hardened	8	3/4	100
6	Ditto	8	3/4	175

-MISC ASBESTOS INFO (C.B.)
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