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December 24, 1966

Mr. Harry A. Brown
Coastal States Petrochemical Co.
Lincoln Liberty Life Bldg.
Houston, Texas

Dear Harry,

I am enclosing the table of the isobutane cracking economics that I read to you over the phone on Thursday. The yields are based on the Foster Wheeler pilot plant data, and the investment and operating cost figures are based on the rough estimate that the Foster Wheeler process plant's representatives and I made during my recent meeting in their offices.

If these economics look promising and if it appears that the products can be sold and the raw material obtained, it will be necessary to have Foster Wheeler refine both the laboratory data and the cost estimate before making a firm proposal for the project. However, we thought it would be desirable to see if the project looked good from the sales standpoint before recommending that more money be put into pilot plant work and engineering.

Please let me know what steps you would like to have me take next on this project.

Very truly yours,

George Adams

George F. Adams

GFA:emb

Enc.

Yields, Isobutane cracking

Production of 2500 BCD of isobutylene 95%
at 340 Dly OSE = 2680 BSD

Charge	BSD	¢/gal	$/BBL	$/D	
Isobutane	7280	6.5	2.73	19874	
Products					
Isobutylene, 95%	2680	16.0	6.72	18009	
Propane	1995	10.0	4.20	8379	
Propylene	332	5.0	2.10	697	
Butane-Butylenes	122	4.0	1.68	205	
Pentane plus	408	6.0	2.52	1028	
Fuel gas 23.5 wt%	14,100#/m 310mm/m	20¢/mm		1490	
				29808	
Net added value				9934	
Less operating cost				3500	
Net realization				6434	
$/year					2,180,000
Estimated cost of plant					$5,000,000

Note: Estimated isobutylene analysis:
95% isobutylene
2% butene -1
3% isobutane