

PI-72-0102

February 8, 1972

Mr. J. M. Kidd
Albert Switzer & Associates, Inc.
Consulting Engineers
P.O. Box 14658
Barton Rouge, Louisiana 70808

Dear Mr. Kidd

This letter is in regard to your inquiry to and subsequent discussions with Mr. Marshall Taylor of our Houston field office relative to the use of plastic pipe.

You stated that your firm is designing a natural gas distribution system for a predominately rural area (Class Locations 1 & 2), and supplied design information that shows sizes ranging from 6" to 12" and pressures from 36 to 150 psig.

In your letter you state, "The DOT regulations appear to be silent on pressure above 100psig and pipe sizes larger than 6"

ASTM D2513, Thermoplastic Gas Pressure Pipe, Tubing and Fittings referenced in Section I of Appendix B of 49 CFR, part 192 includes specifications for thermoplastic pipe. Section 4.1.1.4 of ASTM D2513 references specifications for Poly Vinyl Chloride (PVC) Plastic pipe (SDR-PR and Class T) with the noted limitations.

With regard to your comment on pressures above 100 psig, we refer you to Sections 192.121 and 192.123 which specify the design limitations for the operating pressures of plastic pipe meeting all other requirements of the regulations.

If you have further questions, please advise.

Sincerely
Joseph C. Caldwell
Acting Director
Office of Pipeline Safety

Albert Switzer & Associates, Inc.
P.O. Box 14658
3150 Valley Street
Baton Rouge, Louisiana 70808

August 24, 1971

Mr. Marshall W. Taylor
USDT Office of Pipe Line Safety
201 Fannin Street - Suite 315
Houston, Texas

Re: Plastic Pipe
ASA Job No. 326

Dear Mr. Taylor:

Please refer to our conversation this date concerning the use of plastic pipe.

Our firm is designing a natural gas distribution system for a predominately rural area (Classes 1 and 2). The following is the design information.

<u>Station</u>	<u>Size</u>	<u>Miles</u>	<u>PSIG</u>	<u>ASTM D 2513 Class 200 PVC – 2 Wall Thick</u>
A			150	
	12"	19.6		0.606"
B			123	
	10"	8.3		0.511"
C			92	
	8"	9.3		0.410"
D			81	
	8"	4.2		0.410"
E			65	
	8"	6.2		0.410"
F			43	
	6"	2.9		0.316"
G			36	

The DOT regulations appear to be silent on pressures above 100 psig and pipe sizes larger than 6". We would appreciate your review of this information and solicit your recommendations.

Yours truly,
ALBERT SWITZER & ASSOCIATES, INC.
Consulting Engineers
J. M. Kidd, P. E.