

BUCHANAN P.E. CONSULTING, INC.
ELECTRICAL ■ MECHANICAL ■ PLUMBING ■ STRUCTURAL
E N G I N E E R I N G

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Date: January 12, 2022
To: John Cramer
Address: 7409 CORTES LAKE DR
DELRAY BEACH FL 33446
Re: Gas Tank Distance to Structure

After researching the distance from underground tank to important building, I found the reason for the code is to prevent gas from entering an enclosed important building thru the soil between the tank and the important building. A structure that is 50% open to outdoors is considered ventilated and does not constitute an important building.

The tank has to be 10' from the enclosed important building, and the liquid gas escaping from a tank, in NFPA-58 has to be 10' away from the wall that has to touch the ground where liquid gas can travel in the ground and get inside the important building through cracks and other openings. The gas that escapes in the air is not considered for the distance clearances required. Therefore if there is an overhang and column less than 10' from the tank, NFPA-58 allows the tank to be less than 10' away, because the gas or liquid gas will not enter the important building thru the column or the overhang and will dissipate in the air and will not become a fire or explosion hazard.

If I can be any further assistance please don't hesitate to contact me.

Sincerely,

Raja Buchanan, P.E.
Buchanan P.E. Consulting, Inc.