



## MECHANICAL SYSTEMS ENGINEERS

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May 7, 2013

Mr. George E. Froelich  
Code Enforcement Officer  
Planning & Urban Development Dept  
389 Congress Street  
Portland, ME 04104-3509

RE: 81 Danforth St., Portland, Maine – Trap Primer Installation

Dear Mr. Froelich,

We appreciate your concern regarding the discharge line of the trap primers not being continuously sloped to drain to the floor drain trap inlet. Although not a code requirement, we understand your position, that products not covered by code be installed according to the manufacturer's recommendations. We have contacted the trap primer's manufacturer's (PPP) representative and he could not provide us with any documentation stating that the trap primer's discharge line must be sloped. He stated that it was a "grey area".

We conclude that the trap primers will function regardless if the lower end of the discharge tube is sloped or not. The bottom of the trap seal primer device is positioned 12" or more above the finished floor and flood rim of the floor drain serviced. This height will provide at 12"-16" of head pressure in the line. Each cycle of the trap primer's operation will add a trickle of water to the top of the tube, constantly displacing any water inside the line into the floor drain's trap.

We request that this aspect be considered and approved as an Alternate Plumbing System.

Thank you for your time,

Kurt F. Magnusson. PE  
Mechanical Systems Engineers

