

Letterhead and all.

Gentlemen:

I accept your invitation to be and will provide a proposal for this project.

In order to properly design the system in accordance with NFPA 13 "Standard for the Installation of Sprinkler Systems" - 2002 Edition Section 4.3 I am required to have an "Owners' Certificate" as outlined below:

4.3 Owners' Certificate.

The owner(s) of a building or structure where the fire sprinkler system is going to be installed or their authorized agent shall provide the sprinkler systems installer with the following information prior to the layout and detailing of the fire sprinkler system:

- (1) **Intended use of the building including the materials within the building and the maximum height of any storage**
- (2) A preliminary plan of the building or structure along with the design concepts necessary to perform the layout and detail for the fire sprinkler system
- (3) Any special knowledge of the water supply including known environmental conditions that might be responsible for microbiologically influenced corrosion (MIC)

This "certificate" is the response to and can be in in letter or email form.

My two major concerns are:

1. Height of storage, does it exceed 12'-0" above finished floor?
2. Exactly what makes up the storage? I know it shoes but what is the percentage of rubber or plastics in the storage commodity?

If there are rubber or plastics stored I need to know the height if over 5'-0", the percentage of rubber or plastic by weight and volume and exactly what type of rubber or plastic defined by NFPA #13 Section 5.6.3.4.1 as follows:

5.6.3.4.1 A Class IV commodity shall be defined as a product, with or without pallets, that meets one of the following criteria:

- (1) Constructed partially or totally of Group B plastics
- (2) Consists of free-flowing Group A plastic materials
- (3) **Contains within itself or its packaging an appreciable amount (5 percent to 15 percent by weight or 5 percent to 25 percent by volume) of Group A plastics**

5.6.3.4.2 The remaining materials shall be permitted to be metal, wood, paper, natural or synthetic fibers, or Group B or Group C plastics.

5.6.4* Classification of Plastics, Elastomers, and Rubber. Plastics, elastomers, and rubber shall be classified as Group A, Group B, or Group C.

5.6.4.1* **Group A.** The following materials shall be classified as Group A:

- (1) ABS (acrylonitrile-butadiene-styrene copolymer)
- (2) Acetal (polyformaldehyde)

- (3) Acrylic (polymethyl methacrylate)
- (4) Butyl rubber
- (5) EPDM (ethylene-propylene rubber)
- (6) FRP (fiberglass-reinforced polyester)
- (7) Natural rubber (if expanded)
- (8) Nitrile-rubber (acrylonitrile-butadiene-rubber)
- (9) PET (thermoplastic polyester)
- (10) Polybutadiene
- (11) Polycarbonate
- (12) Polyester elastomer
- (13) Polyethylene
- (14) Polypropylene
- (15) Polystyrene
- (16) Polyurethane
- (17) PVC (polyvinyl chloride — highly plasticized, with plasticizer content greater than 20 percent) (rarely found)
- (18) SAN (styrene acrylonitrile)
- (19) SBR (styrene-butadiene rubber)

5.6.4.2 **Group B.** The following materials shall be classified as Group B:

- (1) Cellulosics (cellulose acetate, cellulose acetate butyrate, ethyl cellulose)
- (2) Chloroprene rubber
- (3) Fluoroplastics (ECTFE — ethylene-chlorotrifluoro-ethylene copolymer; ETFE — ethylene-tetrafluoroethylene-copolymer; FEP — fluorinated ethylene-propylene copolymer)
- (4) Natural rubber (not expanded)
- (5) Nylon (nylon 6, nylon 6/6)
- (6) Silicone rubber

5.6.4.3 **Group C.** The following materials shall be classified as Group C:

- (1) Fluoroplastics (PCTFE — polychlorotrifluoroethylene; PTFE — polytetrafluoroethylene)
- (2) Melamine (melamine formaldehyde)
- (3) Phenolic
- (4) PVC (polyvinyl chloride — flexible — PVCs with plasticizer content up to 20 percent)
- (5) PVDC (polyvinylidene chloride)
- (6) PVDF (polyvinylidene fluoride)
- (7) PVF (polyvinyl fluoride)
- (8) Urea (urea formaldehyde)

I know this looks complex but anytime Group A plastics or rubber is stored over 5'-0" in height the section dealing with plastic storage kicks in.

I am not aware of any problems in the area with conditions that might be responsible for microbiologically influenced corrosion (MIC).

Also be aware I do not have any civil or site drawings and I need these to be able to perform the hydraulic calculations in order to size the pipe for pricing.

Will underground work be performed by the site contractor? Where is it exactly that our work

will begin?

My email is xxxxx.xxxxx

Thank you for the opportunity to quote this project for you.

Very truly yours,