

# Antifreeze Update

(as of August 29, 2012)

## NFPA 13 & NFPA 13-R Systems

- Only "Listed" antifreeze can be used in new systems with one exception for ESFR systems (Problem: As of 8/29/12 there is **NO** listed antifreeze solution available on the market. **Therefore, we can no longer quote antifreeze systems in new construction for NFPA 13 & 13-R systems**)
- If we have already been awarded a contract which includes antifreeze, we **MUST** get AHJ approval to continue. We **MUST** notify the customer of the concerns of NFPA & we **MUST** adhere to the requirements in NFPA 25 (which is outlined below)

## NFPA 13-D Systems

- New systems shall be utilized with a "Listed" antifreeze solution OR have the AHJ accept an alternative solution (the AHJ has no choice for 13 & 13-R systems)
- If the AHJ allows for non-listed antifreeze solutions to be used, then a factory premixed solution **MUST** be used with maximum concentration limits of 38% for propylene glycol & 48% for glycerine
- Documentation should be submitted to the AHJ showing that no other means of protecting the pipe from freezing is available (ie. pipe in exterior walls, unheated combustible concealed space, vaulted ceilings in attics, etc.)
- Existing systems shall use a factory premix solution with maximum concentration limits of 40% for propylene glycol & 50% for glycerine

## NFPA 25

- Systems installed after September 30, 2012 **MUST** use a "listed" antifreeze solution.
- Systems installed before September 30, 2012 **MUST** meet all of the following criteria;
  - o All systems **MUST** be converted over to a "Listed" solution within the next 10 years & shall not extend past September 30, 2022
  - o The antifreeze must be a factory premix solution with maximum concentration levels of 40% for propylene glycol & 50% for glycerine
  - o **AND** a "Deterministic Risk Assessment" **MUST** be provided on any system that exceeds 30% for propylene glycol & 38% for glycerine. **(We do NOT provide this assessment; I repeat FLSA does NOT perform these risk assessments!!! A registered engineer or CFPS that has the appropriate insurance coverage should be the only type of people allowed to perform these assessments. We must NEVER take on this liability!!!)**

See the following TIA's from NFPA for official wording when talking to a client, customer or AHJ;

- TIA Log 1066 for NFPA 13
- TIA Log 1065 for NFPA 13-R
- TIA Log 1067 for NFPA 13-D
- TIA Log 1068 for NFPA 25