

City of Henderson Fire Safety Engineering Informational Bulletin

Issue 101

COHFireSafety@CityofHenderson.com

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WHERE DO YOU ADD THE DOMESTIC WATER DEMAND FOR MULTIPURPOSE NFPA 13D RESIDENTIAL FIRE SPRINKLER SYSTEMS?



Recent legislation (effective July 5, 2011) provides the answer:

2010 NFPA 13D Sections 6.5.2 and 6.6.1 (as amended). *A minimum demand of 5 gpm shall be added to the sprinkler system demand at the point of domestic demand to determine the size of common piping and the size of the total water supply requirements where no provision is made to prevent flow into the domestic water system upon operation of a sprinkler.*

The “point of domestic demand” is:

Flush Multipurpose Systems - The 5 gpm domestic demand shall be added at the tee at the base of the riser where the fire sprinkler system and the domestic water system split from each other. If a flow control device is installed on the domestic water line that prevents water flow to the domestic system upon activation of a sprinkler head, then the 5 gpm can be omitted from the hydraulic calculations.

Network Multipurpose Systems - The 5 gpm domestic demand shall be added at the outlet(s) on the system piping that feeds the most remote, most demanding domestic fixture(s).



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