



California State Fire Marshal **CODE INTERPRETATION**

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| Date Issued | November 17, 2014 | Interpretation | 14-008 |
| Topic | Residential Sprinklers Water Supply | | |
| Code Section(s) | 2013 CRC R313.3.5 and R313.3.6 | | |
| Requested by | Uponor Melisa Rodriguez, PE, Senior Design Technician | | |
| Date Received | September 9, 2014 | | |

Question: Please provide clarification on section R313.3.5 about sizing the water supply, specifically when the system being used is a "multipurpose" system with the cold water plumbing fixtures fed directly off the pipe that is feeding the sprinklers and the hot water supply coming off the system riser. Does Section R313.3.5 intend to size the supply to the home and that the 5 gpm additional flow requirement for a shared fire and domestic supply is intended to be applied to that supply line only? There is a separate section that refers to sizing the system piping, R313.3.6, and for that only the flow from the two most demanding sprinklers is required to determine that pipe size. Where should the 5 gpm be applied for a multipurpose sprinkler system?

Answer: §R313.3.5 requires that 5 GPM be added where the systems are connected. On a "multipurpose" system, as defined above, it would be at the point where the hot water supply connects to the sprinkler riser. When this California amendment was added, the thought was by adding at least a 5 GPM allowance for concurrent non-fire flow through common piping, the calculations will allow for the operation of all calculated sprinklers regardless of other consumption on the property. §R313.3.6 reconfirms this by affirming that the flow required to supply the plumbing fixtures shall not be required to be added to the sprinkler design flow.