

Pitts, Shannon (DES)

From: Hart, Steven <Steven.Hart@kingcounty.gov>
Sent: Tuesday, October 6, 2020 2:47 PM
To: Shipman, Ray (DES)
Subject: Change Proposal - 2018 UPC

Ray,

I am running late getting this information to you and ask if this is enough for now to get my proposal on the books?

I am not sure what could have changed to allow single-family home owners the allowance to have gray water systems for flushing toilets or other uses but this carries problematic issues asking home owners to maintain these type of non-potable plumbing systems.

I am proposing the 2018 UPC, Chapter 15 retain the amended code language found in the 2015 UPC in addition to the current amendment in the 2018 UPC.

The following amended code sections are being proposed to be carried forward to the 2018 UPC.

1501.1.1 Allowable use of Alternative Water. Where approved or required by the authority having jurisdiction, alternate water sources (reclaimed (recycled) water, gray water and on-site treated nonpotable water) shall be permitted to be used in lieu of potable water for the applications identified in this chapter. Reclaimed (recycled) water shall not be used to flush toilets or for other indoor use in any residential property or dwelling unit where residents have access to plumbing systems for repairs or modifications.

1501.2 System Design. Alternate water source systems shall be designed in accordance with this chapter by a registered design professional or person who demonstrates competency to design the alternate water source system as required by the authority having jurisdiction. Components, piping, and fittings used in an alternate water source system shall be listed.

1501.7 Minimum Water Quality Requirements. The minimum water quality for alternate water source systems shall meet the applicable water quality requirements for the intended application as determined by the authority having jurisdiction. In the absence of water quality requirements, the EPA/625/R-04/108 contains recommended water reuse guidelines to assist regulatory agencies develop, revise, or expand alternate water source water quality standards.

The treatment for gray water used to flush toilets or urinals shall be oxidized, coagulated, filtered and disinfected, and be consistent at all times with Washington Class A reclaimed water or better and be approved by the authority having jurisdiction.

1504.7 On-Site Treated Nonpotable Water Devices and Systems. Devices or equipment used to treat nonpotable water for on-site use in order to maintain the minimum water quality requirements determined by the authority having jurisdiction shall be listed or labeled (third-party certified) by a listing agency (accredited conformity assessment body) or approved for the intended application. Devices or equipment used to treat gray water or sewage for use in water closet and urinal flushing, surface irrigation, and similar applications shall oxidize, coagulate, filter and disinfect the gray water or sewage, and be consistent at all times with Washington Class A reclaimed water or better and be approved by the authority having jurisdiction.

1503.4 Connection to Potable or Reclaimed (Recycled) Water Systems. Reclaimed (recycled) water systems shall have no connection to a potable water supply or alternate water source system. Potable water is permitted to be used as makeup water for a reclaimed (recycled) water storage tank provided the water supply inlet is protected by an approved air gap in accordance with this code.

Thank you,

Steven Hart

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