

**Ad Hoc Committee – Tall Wood Buildings
Fire Work Group
Draft Code Change Proposal
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Developed: 11/17/17

Revised: NA

File name: 403.3.2 High rise sprinkler water supply

The following is a draft code change proposal that has been developed by the Fire Work Group (WG) of the Ad Hoc Committee on Tall Wood Buildings (TWB). This draft proposal has been reviewed by the TWB Committee and is posted for information and comments. Please direct comments to the Chair of the WG: Sean DeCrane at Sean.Decrane@ul.com

This is a draft only and is subject to change prior to submittal to cdpACCESS by the January 8, 2018 deadline.

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403.3.2 Water supply to required fire pumps. In all buildings that are more than 420 feet (128 m) in height, and buildings of Type IVA and IVB that are more than 120' in height required fire pumps shall be supplied by connections to not fewer than two water mains located in different streets. Separate supply piping shall be provided between each connection to the water main and the pumps. Each connection and the supply piping between the connection and the pumps shall be sized to supply the flow and pressure required for the pumps to operate.

Exception: Two connections to the same main shall be permitted provided that the main is valved such that an interruption can be isolated so that the water supply will continue without interruption through not fewer than one of the connections.

Reason: The intent of this change is further increase the reliability of automatic sprinkler performance in mass timber buildings greater than 120' in high. The statistic suggests that redundancy in water supply will improve system reliability, although only marginally, given the already outstanding performance provided by sprinklers.

Reason:

Cost impact: