



## TECHNICAL POLICY

### 14 – 05 Standpipe Pipe Sizing

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Standpipe pipe size is determined by the quantity of water flowing through that pipe and the length from the water supply. The “total distance of piping from furthest outlet” from the pipe schedule table in NFPA - 14, is the total distance from the furthest outlet to the water supply.

Example of determining pipe size for Class 1 standpipe system consisting of a water supply and 2 risers:

- The furthest outlet on the furthest riser from the water supply is 150 feet from the water supply.
- The furthest outlet on the riser located closest to the water supply is 80 feet from the water supply.
- The junction of the 2 risers is located 40 feet from the water supply.

Sizing:

- The pipe from the water supply to the riser junction has a total flow of 750 gpm; therefore, the minimum pipe size is to be 5 inches.
- The pipe from the furthest outlet on the near riser has a flow of 250 gpm; therefore, the minimum pipe size is to be 4 inches.
- The pipe from the furthest outlet on the far riser has a flow of 500 gpm; therefore, the minimum pipe size is to be 6 inches.

The pipe sizing from the water supply to the furthest outlet is to be a minimum of 6 inches and the pipe size of the near riser to the riser junction is to be a minimum of 4 inches.