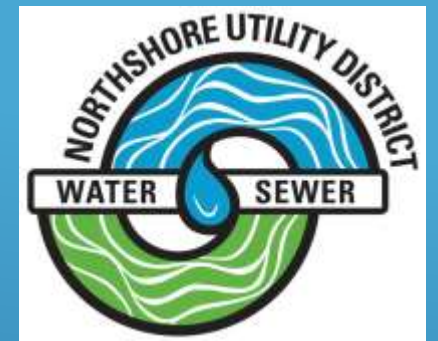


RESIDENTIAL FIRE SPRINKLERS

Carl Lunak

A series of several parallel white lines of varying thicknesses, slanted diagonally from the bottom-left towards the top-right, located in the right half of the slide.

NORTHSHORE UTILITY DISTRICT



- ▶ Service area includes 5 cities
 - ▶ All of Kenmore
 - ▶ About 1/3 of Kirkland
 - ▶ Bothell
 - ▶ Lake Forest Park
 - ▶ Woodinville
- ▶ 22,000 Water Connections
 - ▶ Primarily single family residential
 - ▶ Growing multifamily
 - ▶ Small Commercial
 - ▶ Bastyr University
 - ▶ Evergreen Hospital


THE ORDINANCE

- ▶ City of Kenmore

“An approved fire sprinkler system shall be installed in new one-family and two-family dwellings and townhouses”...



THE DISTRICTS CONCERNS

- ▶ Impact to water system
 - ▶ Long term forecasting
 - ▶ Engineering design specifications
 - ▶ Increase in required backflow assemblies
 - ▶ Increased workload
 - ▶ Cross connection staffing
 - ▶ Liability issues delinquent accounts
 - ▶ Coordination with Kenmore & Northshore Fire
 - ▶ My concerns
 - ▶ **MORE WORK!**
- 

THE PROCESS

- ▶ Kenmore & Northshore Fire
- ▶ 2 stakeholders meeting
 - ▶ City
 - ▶ Fire District
 - ▶ Master Builders Association
 - ▶ Plumbers
 - ▶ Fire Sprinkler Contractors
 - ▶ Northshore Utility District
- ▶ Everyone had concerns



**Sprinklers
Save Lives!**

Jeff LaFlam – Fire Marshal

Growth Opportunities (aka obstacles)

1. Impact to water system
2. Liability
3. Meter size and cost issues

How it was addressed

1. Education
 1. 98% of residential fires put out by 1 or 2 heads – 13 g.p.m. per head
2. The District already had legal opinion on liability of shut off accounts
3. N.U.D. connection charges are based on use so no change to connection fees.
 1. Meter upgrade cost \$55.00
 2. Already using 1" setter and service line

COLLECTIVE PROBLEM SOLVING

Growth Opportunities (aka obstacles)

1. Coordination with “the Authority having jurisdiction”
2. Multi-purpose, flow through, passive purge, traditional 13D

How they were addressed

1. Jointly produced form
2. Education & shared definitions
 1. "Flow-through fire protection system" means a fire sprinkler system that:
 - ▶ Is supplied only by the purveyor's water;
 - ▶ Does not have a fire department pumper connection;
 - ▶ Is constructed of approved potable water piping and materials to which sprinkler heads are attached and
 - ▶ Terminates at a connection to a toilet or other plumbing fixture to prevent stagnant water.

COLLECTIVE PROBLEM SOLVING

MOST IMPORTANT – MY WORK LOAD

- ▶ Jointly develop a form with Northshore Fire District
 - ▶ Verify type of system
 - ▶ Confirm built as designed
 - ▶ **No required inspection for NUD!**
- ▶ Majority of large builders installed flow-through systems
 - ▶ 2012 – 80%
 - ▶ 2013 – 75%
 - ▶ Last estimate averaging 60%



BY THE NUMBERS

- ▶ From 2012 – 2018 single family fire sprinkler systems
 - ▶ Started with 120 +/-
 - ▶ Added 425 +/- **
- ▶ There are 8 “locally” already in place
 1. Bonney Lake
 2. Camas
 3. Dupont
 4. Kenmore
 5. Mercer Island
 6. Olympia
 7. Redmond
 8. Tukwila



PREPARING FOR AN ORDINANCE

- ▶ Review your connection fees, rates, facilities charges etc.
 - ▶ Evaluate service line specifications and meter size
 - ▶ Continue to build relationships with jurisdictions you serve
 - ▶ Promote your utility – keep your rate payers on your side!
- 

Carl Lunak

clunak@northshorefire.com

425-354-1744

QUESTIONS?

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