

Home Fire Sprinklers Promote CRR

AND PREVENT THE CONSTRUCTION OF SUBSTANDARD HOMES



Lake Point, Erda, Stansbury Park

North Tooele Fire District

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TODAY'S ONE AND TWO FAMILY HOMES ARE MORE DANGEROUS FOR RESIDENTS AND FIREFIGHTERS*



“Most of the nation’s fire problems occur in ... one- and two-family dwellings, which account for more than **80 percent of all deaths from fire** in residential occupancies”

TODAY'S ONE AND TWO FAMILY HOMES ARE MORE DANGEROUS FOR RESIDENTS AND FIREFIGHTERS*



EACH YEAR IN **The United States**

7 people die in U.S. home fires every day

53% of firefighter injuries are from fighting house fires

14% increase in cancer-related deaths in firefighters, compared to the general population in the U.S.**

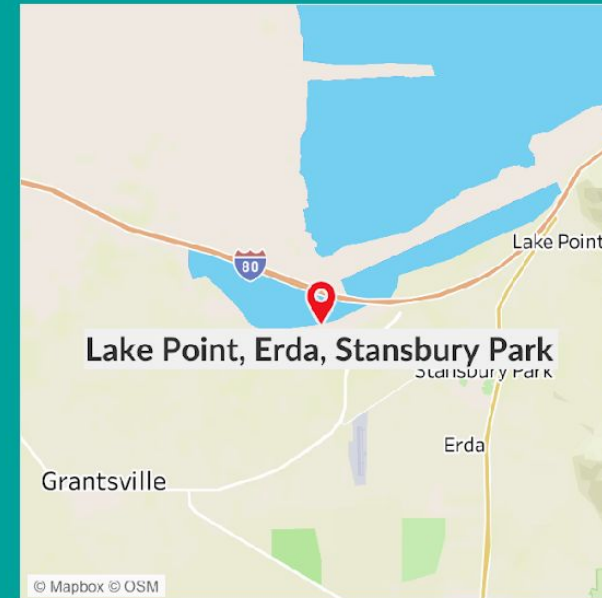
\$8.6 billion direct property damage

TODAY'S ONE AND TWO FAMILY HOMES ARE MORE DANGEROUS FOR RESIDENTS AND FIREFIGHTERS*



EACH YEAR IN **Lake Point, Erda, Stansbury Park**

0 fire service personnel die
1 person dies in a home fire
1 resident dies
2 residents are injured
3 firefighters are injured
\$500k in property loss



WHY FIRES TODAY ARE MORE DANGEROUS



A house fire can become deadly in as little as two minutes.



Two minutes is not a lot of time to escape a fire.



Lightweight construction material burns faster and fails quicker, often collapsing in a fire.



WHY FIRES TODAY ARE MORE DANGEROUS



Larger, more open designs enable faster flashover.



Common synthetic furnishings burn hotter & faster than natural materials, producing toxic deadly smoke.



Emerging technology such as lithium-ion batteries present new challenges.



HOME FIRE SPRINKLERS

ARE IN NFPA AND ICC **BUILDING AND FIRE CODES**



NFPA and ICC codes have included requirements to install fire sprinklers in all new one- and two-family homes for more than 15 years.



Many states and local jurisdictions have amended this requirement from the codes.

REMOVING THIS REQUIREMENT RESULTS IN
SUBSTANDARD CONSTRUCTION

NFPA 13D NATIONAL INSTALLATION STANDARD FOR ONE- AND TWO- FAMILY DWELLINGS



At least 10 minutes of
sprinkler water on the fire
after it starts gives residents
time to escape.



Requires sprinklers
to be installed in
living areas.



to prevent
injury and
life loss.

Does not require sprinklers in
garages, attics, or rooms under
55 sq ft such as bathrooms,
closets, pantries.

HOME FIRE SPRINKLERS

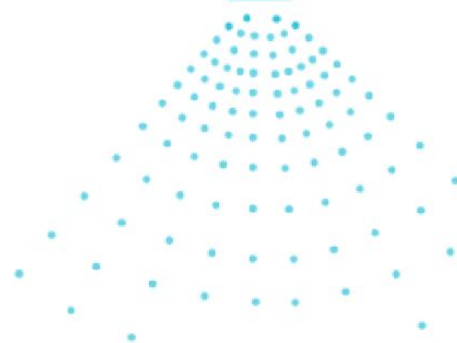
STOP A FIRE FROM **BECOMING DEADLY**



Smoke alarms are triggered by smoke.



Fire sprinklers are triggered by heat.



Sprinklers control the fire automatically, and often extinguish it before the fire department arrives.



Fire sprinklers stop a fire from becoming deadly allowing people time to escape.



Protect those at high risk like small children, older adults, and people with disabilities.



Protects firefighters from exposure which can lead to cancer and other health concerns.

HOW TO ADDRESS BUILDERS' CONCERNS



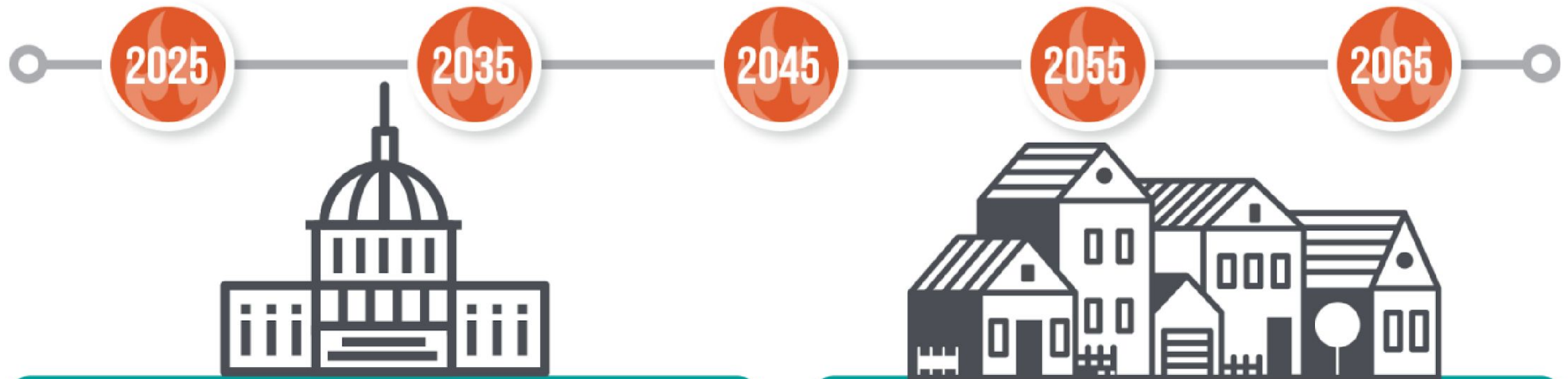
Quicker plan review, permitting, and inspection processes

Agree upfront about water tap/supply line sizing issues

Agree on who can install sprinklers (i.e., sprinkler contractors vs plumbers)

Assure that the sprinkler requirement will not slow down the entire development process

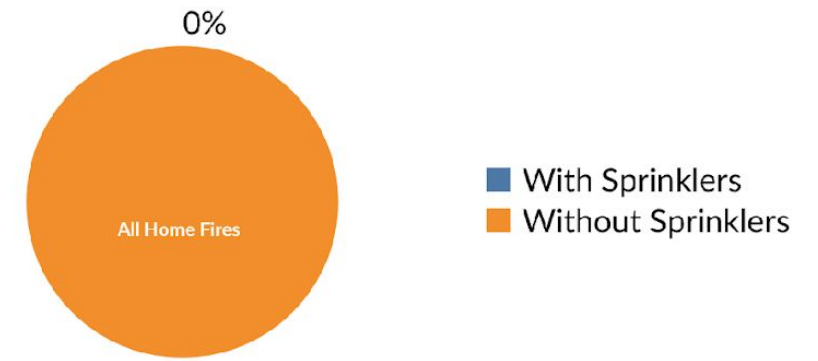
HOMES BUILT **WITHOUT FIRE SPRINKLERS** **THREATEN CRR** FOR DECADES



States or local jurisdictions are not fulfilling their obligation to public safety when they strike this requirement from the codes.

Removing fire sprinklers from the codes allows substandard homes to be built, threatening Community Risk Reduction (CRR) for decades.

THE IMPACT OF FIRE IN Lake Point, Erda, Stansb..



2

structure fires in 2024
in Lake Point, Erda, Stansbury Park



0

with fire sprinklers

The average cost of a fire was \$0



2

without fire sprinklers

Nationally, unsprinklered residential fires:

Cost \$45,000 on average
Cause 2,840 deaths per year
Cause 11,025 injuries per year







CASE STUDY #1

SINGLE FAMILY STRUCTURE **WITHOUT SPRINKLERS**



Lake Point, Erda, Sta..
Residential, Single Family
Home
2025-07-20
Outdoor Smoking

COMMUNITY IMPACT

-  8 pieces of apparatus used
-  17 personnel deployed
-  0 deaths
-  1 injury
-  100% loss of occupancy
-  6 months before repair or demo





CASE STUDY #1

SINGLE FAMILY STRUCTURE **WITHOUT SPRINKLERS**



Lake Point, Erda, Sta..
Residential, Single Family
Home
2025-07-20
Outdoor Smoking

COMMUNITY IMPACT

-  \$3k in apparatus costs
-  \$1k in personnel costs
-  \$2k in medical expenses
-  \$400k in property loss
-  \$100k in other expenses

CASE STUDY #1

SINGLE FAMILY STRUCTURE **WITHOUT SPRINKLERS**



Lake Point, Erda, Sta..
Residential, Single Family
Home
2025-07-20
Outdoor Smoking

OTHER IMPACTS

House of Historical Significance.
Occupant was long-time resident, still
displaced after 4 months. Cannot
renovate, new build only.

CASE STUDY #2







AVERAGE U.S.A. RESIDENCE WITH SPRINKLERS



An Average Residential
Fire in the USA:

Urban
Single Family Home
January
Cooking

COMMUNITY IMPACT

-  1 apparatus used
-  4 personnel deployed
-  <1 death
-  <1 injury
-  <10% loss of occupancy
-  1 week before repair or demo

CASE STUDY #2

AVERAGE U.S.A. RESIDENCE WITH SPRINKLERS



An Average Residential
Fire in the USA:

Urban
Single Family Home
January
Cooking

COMMUNITY IMPACT



\$100 in apparatus costs



\$100 in personnel costs



<\$500 in medical expenses



\$1050 in property loss



\$0 in other expenses

CASE STUDY #2

AVERAGE U.S.A. RESIDENCE WITH SPRINKLERS



An Average Residential
Fire in the USA:

Urban
Single Family Home
January
Cooking

OTHER IMPACTS

Almost no impact on the wider community. Families are usually able to remain in the home while clean up and minor repairs are made.

HOME FIRE SPRINKLERS

SAVE LIVES AND MONEY



Cost of Sprinklered Fire in Lake Point, Erda, Stansbury Park: \$0

Cost of Unsprinklered Fire in Lake Point, Erda, Stansbury Park: \$200k

Residents, Fire Services, Municipalities, Insurance Companies, and Developers all can save with home fire sprinklers

HOME FIRE SPRINKLERS

BENEFIT EVERYONE IN THE COMMUNITY



when a significant portion of the community is sprinklered



Residents
Firefighters
Municipalities
Developers

HOME FIRE SPRINKLERS

BENEFIT RESIDENTS



Injuries reduced or
eliminated

Fewer losses if a fire occurs

Little to no dislocation

HOME FIRE SPRINKLERS

BENEFIT FIREFIGHTERS



Injuries reduced or eliminated
Less exposure to
cancer-causing toxins
Reduced wear and tear on
equipment

HOME FIRE SPRINKLERS

BENEFIT COMMUNITIES



Lower infrastructure cost
including water supply

Reduced fire-related costs for
additional personnel

Lower disability costs for fire
personnel

HOME FIRE SPRINKLERS

BENEFIT COMMUNITIES



When new home developments are protected with fire sprinklers, more resources are available for CRR



Home visits

Community outreach

Smoke alarm programs

Cooking fires

Other high risks