

# 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.\*\***

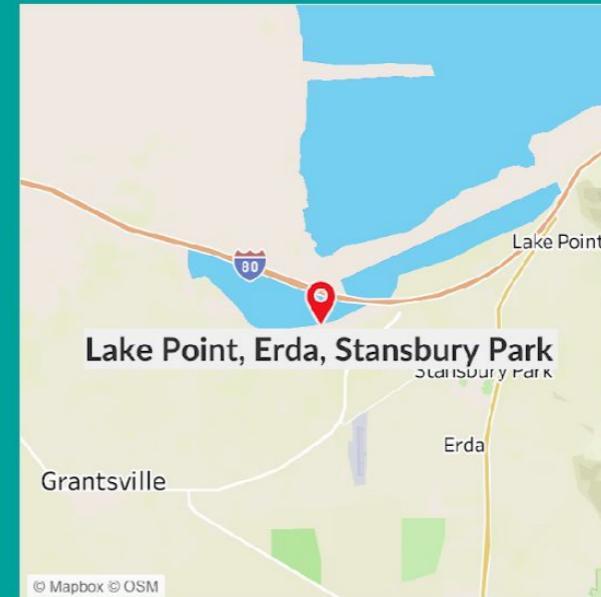
**\$8.6 billion direct property damage**

**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

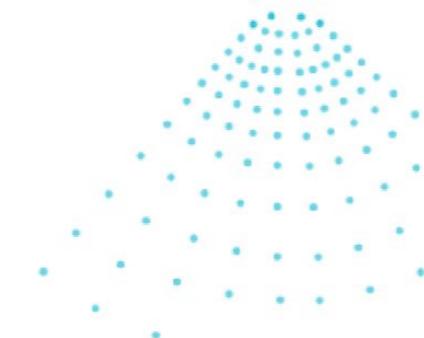
STOP A FIRE FROM **BECOMING DEADLY**



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



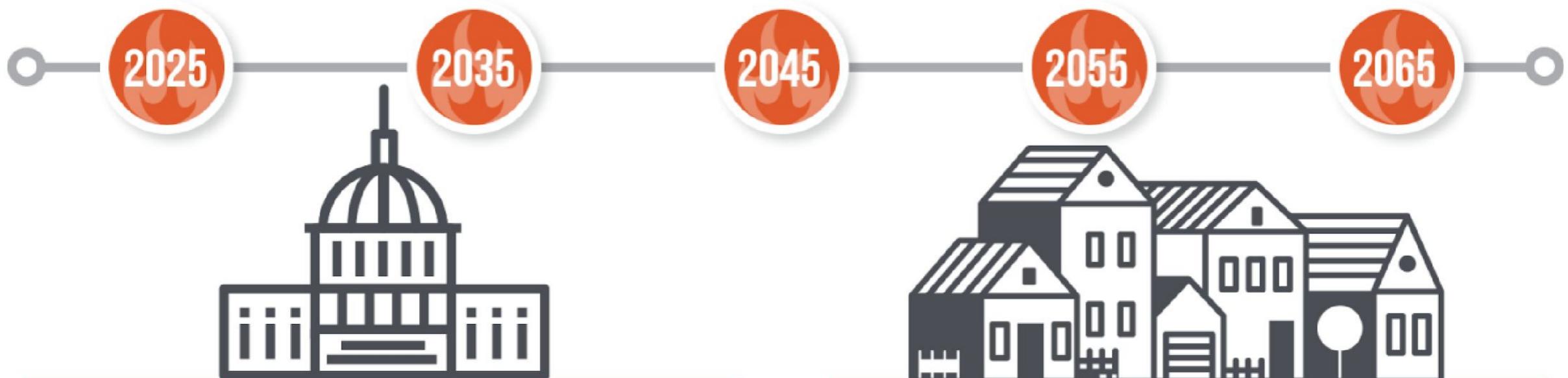
**Quicker plan review, permitting, and inspection processes**

**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**

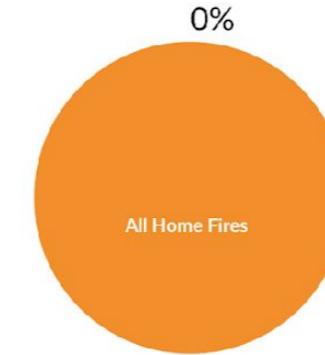
# HOMES BUILT **WITHOUT FIRE SPRINKLERS** THREATEN CRR FOR DECADES



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



2

without fire sprinklers

The average cost of a fire was \$0

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**



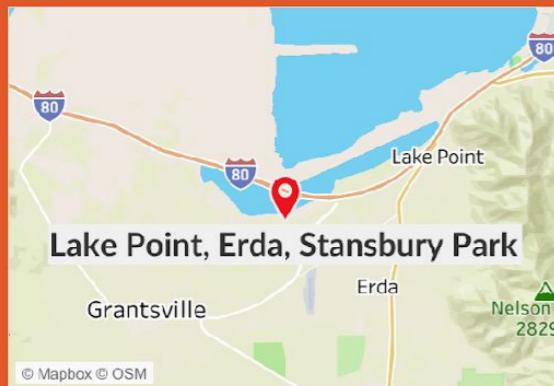
**Lake Point, Erda, Sta..**  
Residential, Single Family  
Home  
2025-07-20  
Outdoor Smoking

### 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**



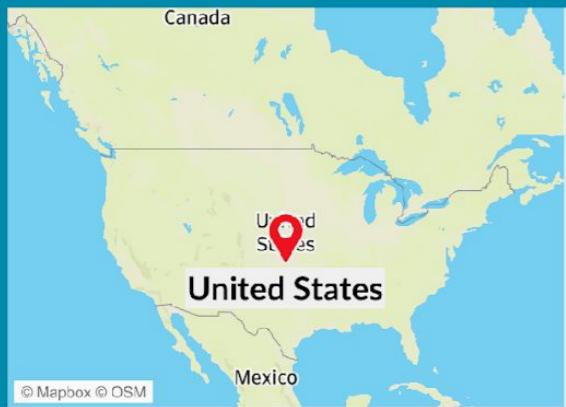
**Lake Point, Erda, Sta..**  
Residential, Single Family  
Home  
2025-07-20  
Outdoor Smoking

### 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:

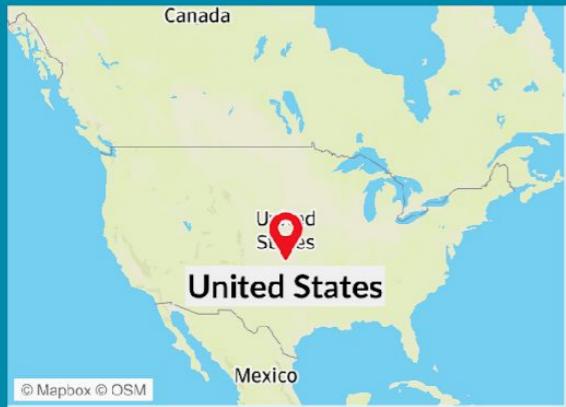
Urban  
Single Family Home  
January  
Cooking

### 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:

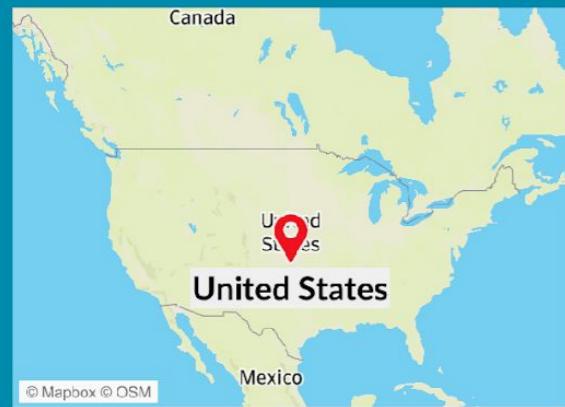
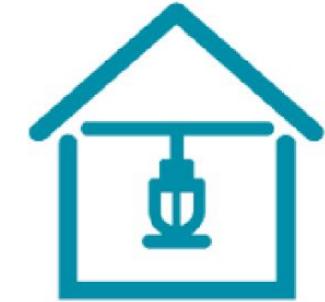
Urban  
Single Family Home  
January  
Cooking

### 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:

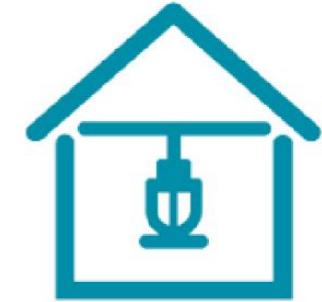
Urban  
Single Family Home  
January  
Cooking

### 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**



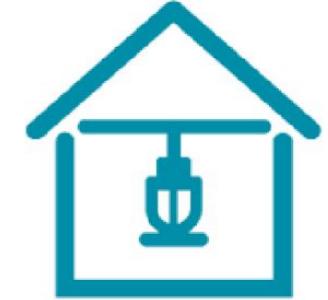
when a significant portion of the community is sprinklered



**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



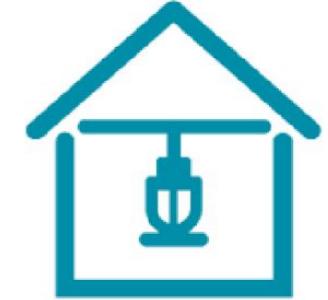
**Injuries reduced or eliminated**

**Less exposure to cancer-causing toxins**

**Reduced wear and tear on equipment**

# HOME FIRE SPRINKLERS

## BENEFIT COMMUNITIES



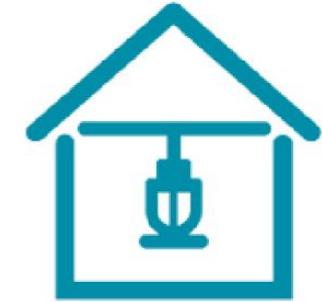
**Lower infrastructure cost  
including water supply**

**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**