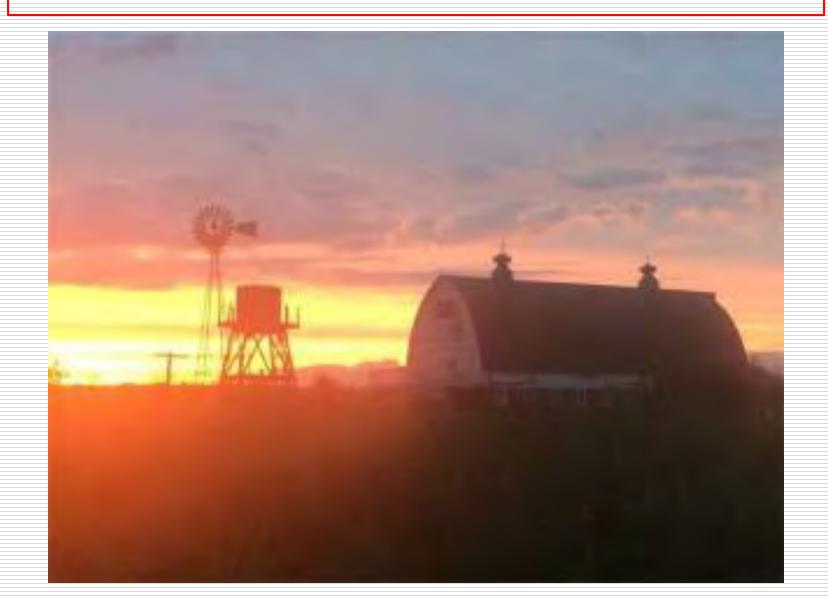
Barns, Bars and more



Presenter



Tom Jenson DSFM Code Specialist Minnesota State Fire Marshal 651.201.7221 Thomas.Jenson@state.mn.us

Today's Objectives

Not Going to make you a Code Expert in 60 minutes!

Not even going to cover everything

Just Giving an Overview, a Look at the Issues and a Place to get Help What should happen when a building changes use?

Role of State Fire Marshal

- State Fire Marshal Division (SFMD)
 - Developing and overseeing the Fire Code
 - Provide interpretations on fire code and related issues
 - Perform inspections:
 - Mandated by statutes
 - Investigations of incidents
 - By request of local AHJ

What's Already Being Inspected

- SFMD Inspects
 - Public Schools Charter Schools
 - -Hotel/Motel/Resorts
 - -Day Care/Foster Care
 - -Health Care Hospitals/Nursing Homes
 - -Complaints & Requests

What is your role as a county official?

Think about this during the presentation

Barn Conversions







Bars – Taprooms - Wineries









Places of Worship





What is Group A

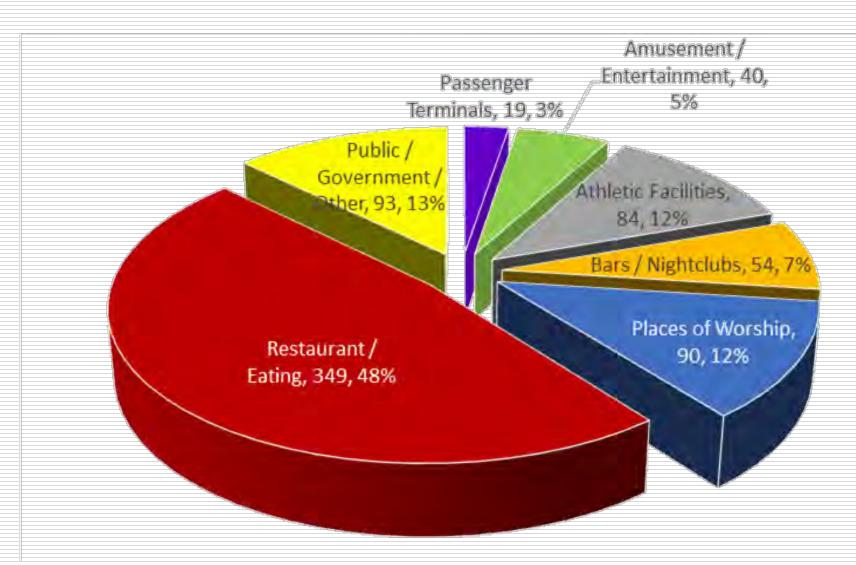
Simply put...Buildings or outdoor venues where 50 or more persons assemble to participate in or observe an activity

Assembly Occupancies

- Group A-2 includes occupancies in which people congregate in high densities for social entertainment
 - -Where drinking and/or food consumption takes place
- Group A-3

-No consumption of food or drink

Assembly Fires by Type of Occupancy 2013 - 2017



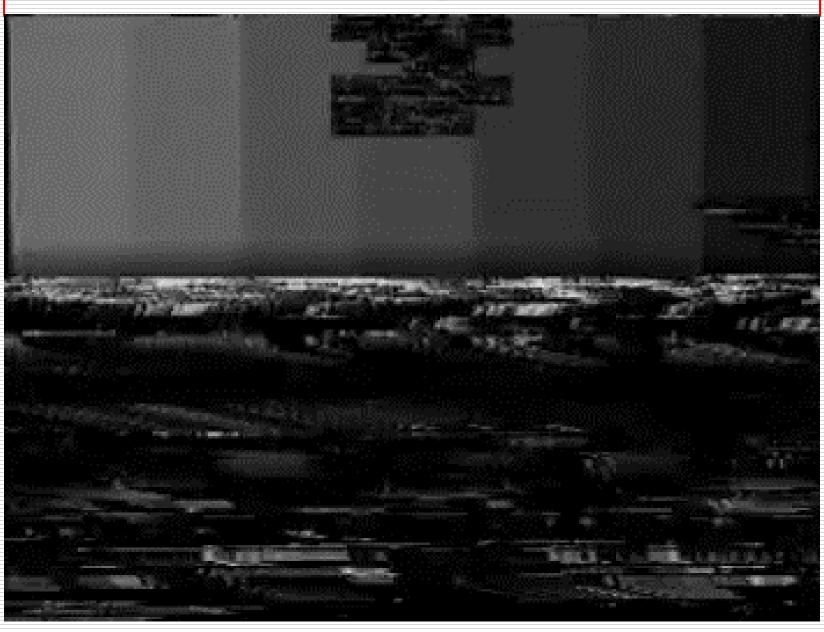
History of Group A-1 & A-2 Tragedies

- Iroquois Theater, 12.30.1903, 602+
- Rhythm Club, 4.23.1940, 209
- Cocoanut Grove Club, 11.28.1942, 492
- Republica Cromanon, 12.30.2004, 194
- Brazil Kiss nightclub 1.27.2013, 242
- Rouen France, 8.6.2016, 13

Unlucky 13 in USA

- Beverly Hills Supper Club 1977
 Kentucky 165 deaths -
- Happy Land Social Club 1990
 New York 87 deaths Arson
- Station Night Club 2003
 Rhode Island 100 deaths
- Ghost Ship 2016
 California 36 deaths
- Where will the next one occur in 2029

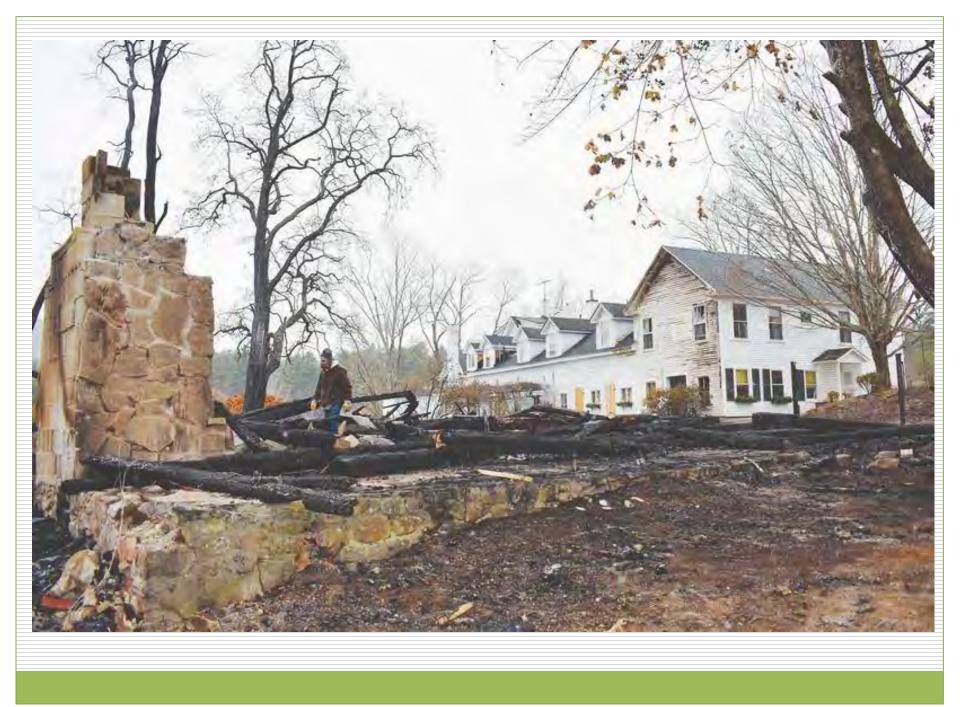
Station Night Club



Wedding-Event Ctr Barn Fires

- Coeur d'Alene, Idaho, August 2017
 - Coeur d'Alene Idaho August 2017
- Arthur, ND, October 2017
 - Arthur ND October 2017
- Tamworth, NH, November 2017

-<u>Tamworth NH November 2017</u>







Lessons Learned ?

Same code issues throughout history

- The "Big Six" in fire tragedies
 - Interior finishes
 - Vertical openings
 - Fire suppression systems
 - Fire alarms
 - Exits
 - Storage



Statutes and Rules

Places of Public Accommodation

MS §326B.121 July 1, 2017 Occupant Load <u>></u> 200

Fire Code Statute

299F.011 Subd. 4. **Applicability; local** authority.

The State Fire Code shall be applicable throughout the state and in all political subdivisions and municipalities therein.

Fire Code Statute

- 299F.011 subd. 4 Applicability
- Is enforceable throughout the state.
- Not necessary to adopt
- Local Ordinance for:
 - -Ease of enforcement
 - -Modify Code
 - -Not less restrictive
 - Fire chief can't waive state law



Fire Code Official

- State Fire Marshal

 Authorized representatives

 Fire Chief

 Authorized representatives
- Other authority
 - -By ordinance or regulation
- Must be competent
 - -Inspector certs, training, experience

Design Professionals

- Architect is required
- Mn Statute 326.02 326.15
- Mn Rule 1800.5200

MSBC Statewide in 2008

It's not just about sprinklers

- Exits
- Interior Finish
- Fire Alarms
- Fire Sprinkler Systems
- Ignition Sources
- Emergency plan, crowd managers
- Fire Department Access-Water Supply

Occupant Load

- Complicated in Group A
 - -Sitting, standing, tables, chairs, booths, etc
- Determines the number of exits
- Determines exit width
- Sprinkler and fire alarm requirements

Number of Exits

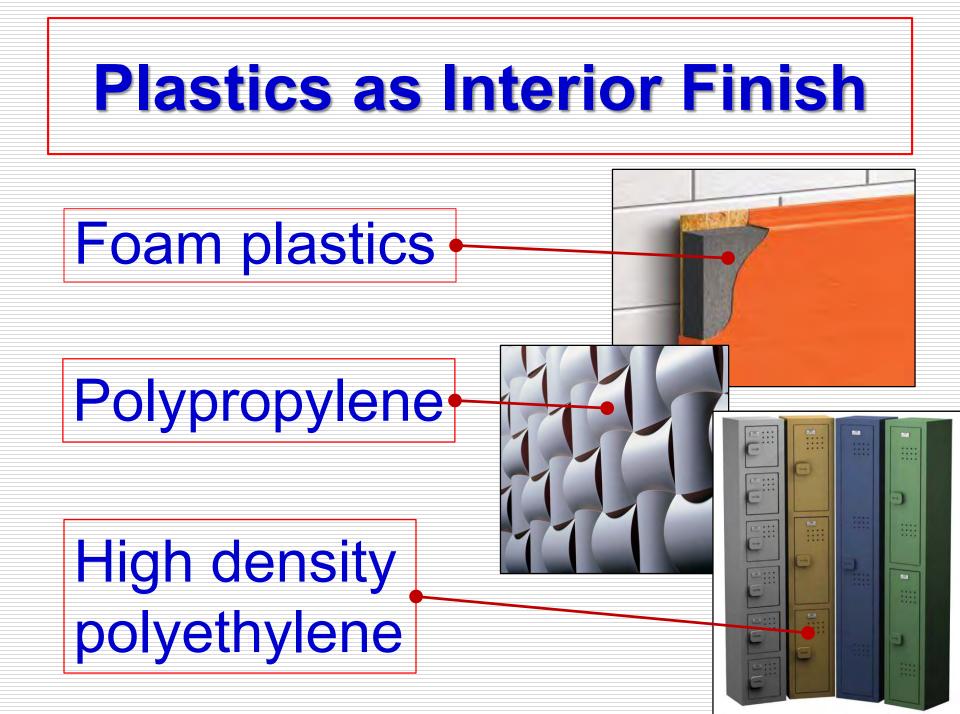
 50 or more occupants -At least 2 exits -Lighted exit signs **–Emergency lighting –Panic Hardware –Door Swing**



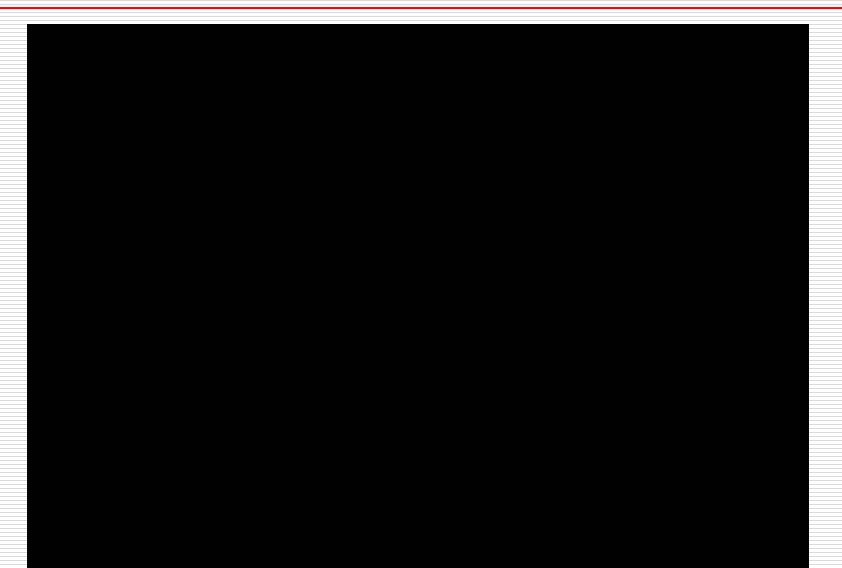
Interior Finishes

Foams – Plastics



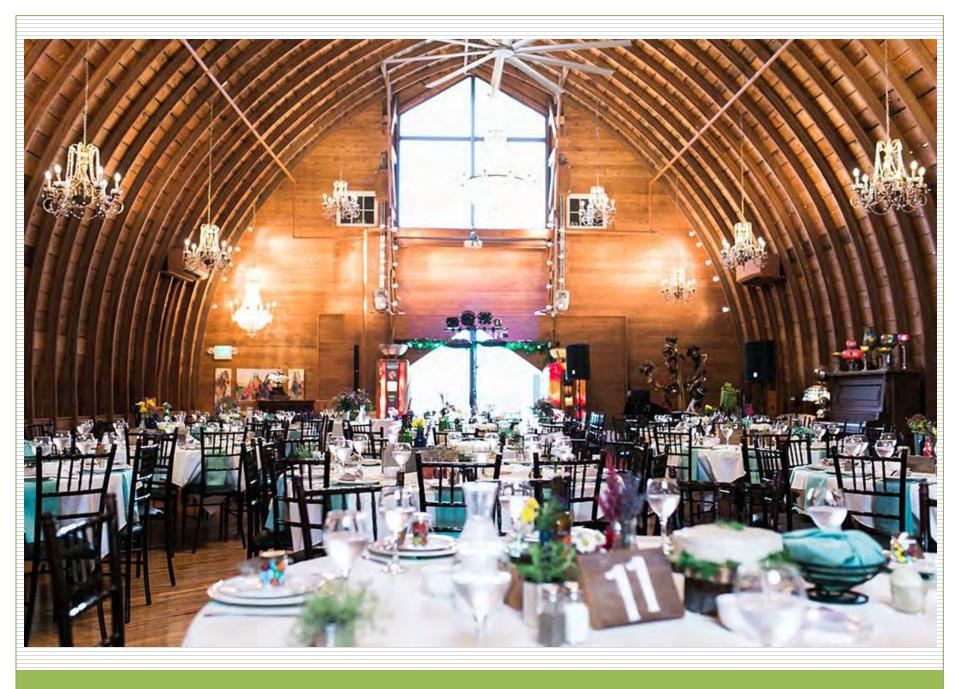






Sprinkler Requirements - New

- A-2 fire area
 - -**5,000** sf
 - -100 people
 - -Second story or basement
- A-3 fire area
 - -12,000 sf
 - -300 people
 - -Second story or basement



Do Sprinklers Work?

Foam Plastics Fire Station Night Club

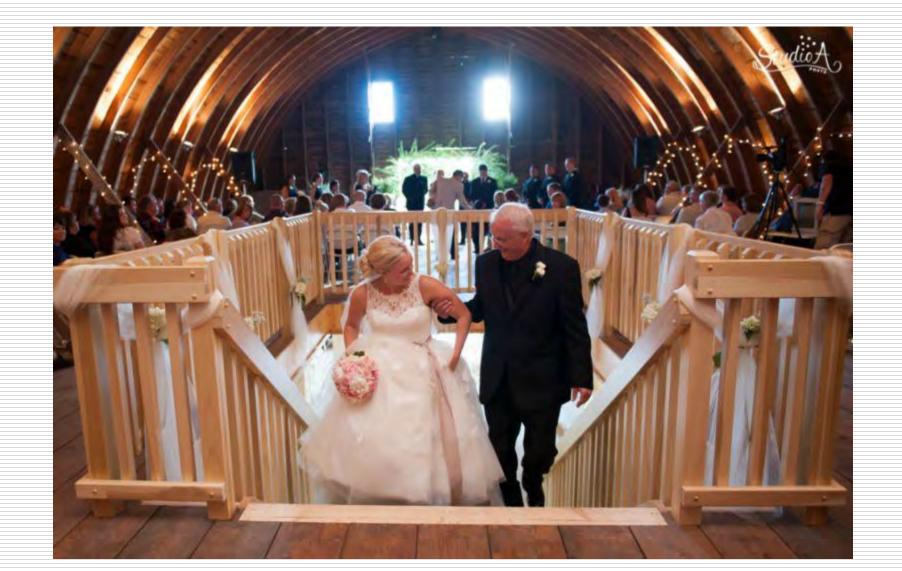
NIST-Station Night Club



NIST-Station Night Club



Barn Conversions



Group U becomes Group A



What are the code concerns?



Barn Conversions





What Makes Us Unique

- Roughly 10,000 square feet of barn -TONS of space indoors as well as huge covered outdoor areas!
- 300 guests are welcome
- · DJ/Band can play until 12am
- Choices! Ceremonies can be held in front of our massive maple tree, in the upper level of the barn, in a grassy field surrounded by trees with a lake view, in the pavillion, or in the courtyard
- Three options for where you'd like cocktail hour: 1) the remains of the granary provide an in-ground stone structure with an open roof and cascading vines 2) in the pavillion to remain outdoors but covered 3) The reclaimed beams of the lower level of the barn and the high top stanchion tables provide a fresh industrial vibe
- The scenery cannot be beat: lush fields, gorgeous mature trees, and Bloom's Lake
- We LOVE weddings and will strive to make your day just as you imagine!



Engineering Design

- Additions such as decks
- Stairways
- Roof wind and snow loads

Wind Loads







Bars – Taprooms - Wineries

- Existing
 - Definition
 - Sprinklers Basements
 - Exits and Signs
 - Panic Hardware
 - Emergency Lighting
 - Interior Finish

Bars – Taprooms - Wineries

- New
 - Definition
 - Sprinklers
 - Exits Lighting
 - Interior Finish
 - FD Access
 - Water Supply

Places of Worship



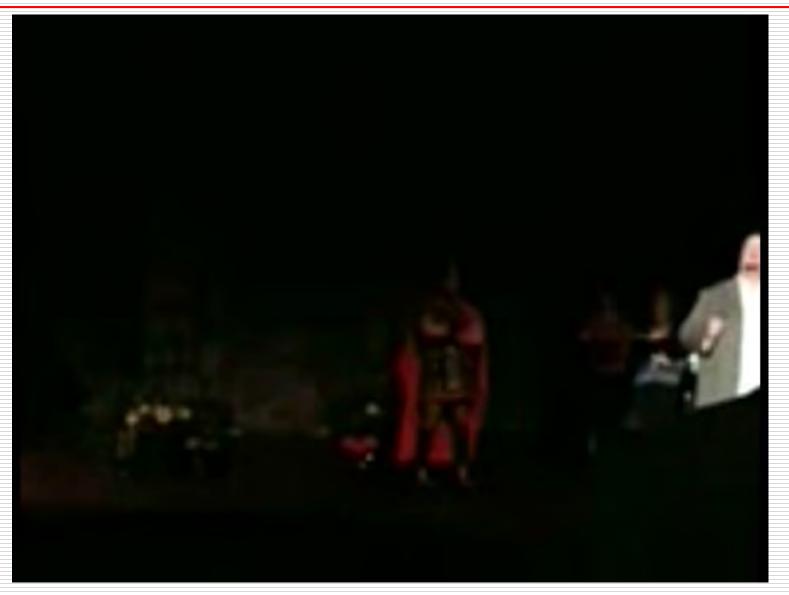
Places of Worship

New

Existing

Additions

Show Must Go On



SFMD, Barn Owners, Legislation

- Two owners seeking legislation
 - Proposed no hearing
- Stay tuned for the 2019 session
- Copy of letter to owners
 - –Inspection checklist
- Complaints

-SFMD assisting with local fire chiefs

What can you do?

- Land use permit
 - -Compliance with codes
 - Design professional required
- Conditional use permit
- Coordinate with local fire department
 Contact the fire chief
- Assistance from SFMD
- Local building official or CCLD

Contact Information

Thomas.Jenson@state.mn.us 651.201.7221 Fire.code@state.mn.us FM.fire.sprinklers@state.mn.us http://sfm.dps.mn.gov PDF of Slides available by E-mail



State Fire Marshal

A Division of the Minnesota Department of Public Safety

SFM Home About Fire Code Services Training Fire Reporting For Fire Departments For Families Resources Contact

Fire Code

- Fire Code Information Sheets
- Interpretations
- Policies
- Presentations
- Sample Inspection Checklists
- o State Fire Code

Expand All Collapse All

STATE FIRE CODE

Minnesota State Fire and Building Code

Purchase a print copy of the 2015 State Fire Code

Visit the International Code Council Website to purchase a copy. You can also purchase them on the Minnesota Bookstore website or by sending an email to the Fire Instructors Association of Minnesota.

Electronic versions of the 2015 State Fire Code

The 2015 Minnesota State Fire Code was adopted on May 2. It is available on the International Code Council's website. The new Minnesota code is based on the 2012 International Fire Code (IFC).

Supplemental 2015 State Fire Code information

Minnesota Rule 7511 includes rules not published in the printed 2015 State Fire Code due to copywrite laws. The Statement of Need and Reasonableness (SONAR) is also available online. SONARs from 1988, 1991, 1997, 2003 and 2007 contain historical information you may find important. Here is a model ordinance for adopting the State Fire Code.

If you have questions on the new code, email our Fire Code Team.

Electronic versions of the 2015 State Building Code

You have free access to electronic editions of the Minnesota State Building Code.

Contact the Fire Code Team

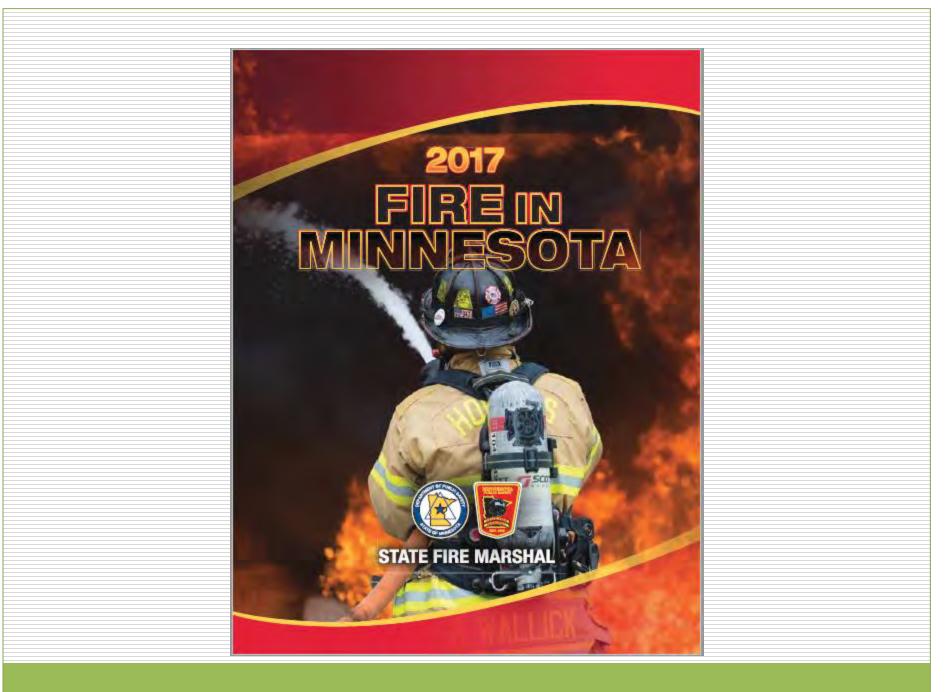
Fire code questions may be submitted by email to fire.code@state.mn.us. Code staff monitor this email address on a daily basis and will respond to your question, usually within 24 hours, but always within three working days.

Variances and Appeals to Fire Code Orders

Department of Public Safety

Search this site...

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2017 Fire in Minnesota

Latest Fire in Minnesota Report now available 64 pages of statistical data collected from 772 of 775 fire depts

Learn more about fire in your community and in Minnesota. The 2017 Fire in Minnesota report is online.

A few interesting facts from the most recent report:

- The number of people over age 60 who died in house fires last year in Minnesota increased by 118 percent.
- More people (29) died in fires over the winter (November 2017-February 2018) than in any winter since 1998.



SFMD Staff

- Residential Care and Lodging Team 8
- School Team 5
- Health Care Team & Corrections 9
- Sprinkler Team 4
- Fire Investigation Team 12
- Code Development Team 5
- Fire and Life Safety Educators 2
- Fire Service Specialists 4
- Data Team 3

Questions

