

Legislative Review 2017

Codes, Standards and Regulations in the U.S. and Canada

This issue of *Sprinkler Age* features our 30th annual legislative review. This summary of legislation and codes offers a quick overview of regulations affecting the fire sprinkler industry in individual states and Canadian provinces. The information in these charts was gathered from a survey sent to the fire marshals of the 50 states, the District of Columbia and the provinces of Canada in September 2017. If a response was not received, information that appeared in the 2016 Legislative Review (November 2016 *Sprinkler Age*) has been reprinted, and the fact that the information is a repeat is denoted by an asterisk (*) after the state or province name in the left column of the chart.

Survey Questions and Responses

The 2017 AFSA Legislative Survey asked the following questions:

1. What, if any, national codes have been adopted by your state?
- 2a. In adopting the national codes, were any amendments or modifications made to the code or referenced standard (i.e., NFPA 13, 101, etc. or state supplemental rules) that affect fire sprinklers?
- 2b. If yes, what were the modifications?
- 3a. Which edition of NFPA 13 have you adopted, either directly or indirectly by code reference?
- 3b. If you haven't adopted the latest edition of NFPA 13, do you allow local jurisdictions to use the latest edition?
4. Do the codes adopted by your state have a minimum base or a minimum/maximum for enforcement purposes?
5. Is the scope of state code enforcement limited to the type of occupancy and/or other requirements (i.e., public assembly over 100, business over 50 ft, etc.) or is it all encompassing?
6. If buildings are not included in the state jurisdiction, is there a recognized code adoption recommended for local authorities or is it on individual preference?
7. Are you in a code revision/adoption cycle now? If yes, what codes and years do you anticipate adopting?
8. Has your state adopted NFPA 25: *Standard for the Inspection, Testing and Maintenance of Water-Based Fire Protection Systems*?
9. Does your state have any pending legislation regarding fire sprinklers, more restrictive or less restrictive, for: Hotels & Apartments, Dwellings & Lodging Housing, Health Care, High-Rise, Nursing Homes, Education, Public Assembly, Business Occupancies, Mercantile, Institutional, Other.
10. Are you adopting the 2015 International Residential Code (IRC)? If yes, will it be adopted with the residential sprinkler requirement intact or modified/removed? If modified, please specify modifications.
11. Does your state have fire sprinkler retrofitting requirements for the following occupancies? Hotels & Apartments, Dwellings & Lodging Housing, High-Rise, Health Care, Nursing Homes, Education, Public Assembly, Business Occupancies, Mercantile, Institutional, College Dormitories, Other.
12. Are there any towns/cities that you are aware of that have retrofitting requirements in excess of the state requirement? List a contact person and phone number for retrofitting information.
13. Does your state require a P.E. to do sprinkler design concepts (i.e., identify occupancies and water supply)?
14. Does the Office of the State Fire Marshal have authority over all projects in the state or only over state-owned or state-financed projects?
15. Are there any local jurisdictions that you know of in your state that have residential ordinances for the following occupancies? Single-family, multi-family, high-rise condo/apartment? Please list.
16. Please provide a telephone number that a person can call if he/she has questions about jurisdiction in your state (i.e. State vs. Local Authorities) regarding fire sprinkler plan review/inspection.
17. Does your state require certification of Plan Reviewers? Inspectors?
18. Does your state require licensing for: Fire Sprinkler Contractors? Fire Sprinkler Fitters? Fire Sprinkler Designers? Fire Sprinkler Inspections? Fire Alarm Inspections (separate from sprinkler)?
19. Does your state require licensing for sprinkler drawings: P.E./Architect Seal? NICET Level III? NICET Level IV?
20. Does your state require any of the following for those who perform inspection, testing and maintenance of water-based fire protection systems? NICET Level I? NICET Level II? NICET Level III? Other (e.g., CSA, Local)?
21. Does your state require seismic protection on fire sprinkler systems?
22. Do you require a signed copy of the owner's certification (see NFPA 13, section 4.3) as part of the working plan submittal?

The tables on pages 30 through 35 provide the answers to most of the survey questions. The table on page 36 provides licensing and certification information (questions 17-19). The tables on page 37 provide the telephone numbers requested in questions 12 and 16 and the answers to questions 20 and 21.

Survey Findings In Canada, AHJs from British Columbia and Manitoba responded. No updates were given regarding pending legislation regarding fire sprinklers in occupancies. For fire sprinkler retrofits, Manitoba indicated health care, nursing homes, and residential care facilities have requirements. Neither province has adopted the 2015 IRC.

Regarding pending sprinkler legislation (question 9) for the 50 United States and the District of Columbia, California has pending legislation for accessory dwelling units. Hawaii has pending legislation for dwelling and lodging housing that is less restrictive and pending legislation for healthcare that is more restrictive. Indiana indicated pending legislation for fire sprinklers “to transfer to the fire code from building code.” New Hampshire follows NFPA 101, *Life Safety Code*®, regarding fire sprinkler legislation. Oregon is considering legislation for high-rises.

Question 10 concerns the 2015 International Residential Code (IRC). California has adopted it (water supply) and

Colorado has adopted it for dwellings associated with public schools. Connecticut indicated it has adopted the code. Washington, D.C. is currently in a code cycle and plans to adopt it. Florida is adopting it for 2017-2018. Maryland has adopted it with no modifications. The 2015 Michigan Residential Code was to become effective in February 2016 and was to adopt by reference the 2015 edition of the IRC with amendments, deletions, and additions deemed necessary for use in the state. Washington state adopted the 2015 IRC but did not adopt chapters 11-25 and notes residential sprinklers, if added, need to meet IRC P2904 or NFPA 13D. West Virginia has also adopted the code but refers readers to section 87-4-5 of the state building code.

Arkansas, Iowa, Maine, Mississippi, New Hampshire, New Jersey, North Carolina, Rhode Island, and Virginia are adopting the IRC with the residential sprinkler requirement removed. Georgia House Bill 1196 (2010 legislative session) prohibits any residential sprinkler requirement, past or future. Idaho has adopted the 2012

edition and covers the IBC, IFC, and IRC. North Carolina modified the adopted code with residential sprinkler requirements, townhomes, only, with the option for two-hour fire separation in lieu of sprinkler protection. In Ohio, there are construction trade-offs for the adopted IRC. South Dakota is not adopting the 2012 IRC and indicated the state fire marshal has no authority in most residential occupancies (i.e., one- and two-family dwellings – only six stories or higher).

Arizona, Delaware, Hawaii, Idaho, Illinois, Indiana, Kansas, Louisiana, Massachusetts, Minnesota, Montana, Nebraska, Nevada, Oregon, South Dakota, Utah, Vermont, and Wyoming indicated they are not adopting the IRC. New York has adopted a modified IRC and directs readers to dos.ny.gov/dcea for details. South Carolina has adopted it with modifications and directed readers to see 2012 ICC modifications at llr.state.sc.us/pol/bcc.

In regard to states or local jurisdictions adopting the 2015 IRC, which includes the requirement for fire sprinklers in new

Province	Province Code Adoption	Additional NFPA Standards	NFPA 13 Edition Adopted	Local Jurisdiction Can Use Latest NFPA 13 Ed.	Minimum Base or a Min/Max for Enforcement
Alberta, Canada*	2014 Alberta Building Code (amended 2010 NBC)	NFPA 13D, 13R, 14, 20	2013	Yes, w/AHJ approval	Minimum
British Columbia, Canada	NBC 2010 amended	2010 NBC adopted in '12 but updated in '17 to req. NFPA 13R ('13 ed.). Also updated '14 to req. '10 versions of NFPA 13D, 14 & 20	2013 as of 12/14	No	Minimum
Manitoba, Canada	NBC 2010 amended	Yes, Fire Code and Bldg. Code amendments can be found online	2007	Yes	Minimum
New Brunswick, Canada*	2010 NBC	NFPA 13D, 13R, 14, 20	2010	Yes, w/AHJ approval	Minimum
Newfoundland, Canada*	2010 NBC & NFPA 101	NFPA 13D, 13R, 14, 20	Latest	Yes	Minimum
Nova Scotia, Canada*	2010 NBC	NFPA 13D, 13R, 14, 20	2013	Yes, w/AHJ approval	Minimum
Ontario, Canada*	2012 Ontario Building Code (amended 2010 NBCC)	NFPA 13D, 13R, 14, 20	2013	Yes, w/AHJ approval	Minimum
Prince Edward Island, Canada*	2010 NBC & NFPA 1 & 101 (NBCC Province not Authority)	NFPA 13D, 13R, 14, 20	2013	Yes, w/AHJ approval	Minimum
Quebec, Canada*	2015 Quebec Construction Code (amended 2010 NBCC)	NFPA 13D, 13R, 14, 20	2007	Yes, w/AHJ approval	Minimum
Saskatchewan, Canada*	2010 NBCC with 2013 Saskatchewan amended	NFPA 13D, 13R, 14, 20	2007	Yes, w/AHJ approval	Minimum

*Abbreviations: NBC-National Building Code of Canada; BOCA-National-Building Official and Code Administrators International; IBC-International Building Code; IFC-International Fire Code; IFGC-International Fuel Gas Code; (cont. on next page)

construction of one- and two-family homes, there has been a great deal of legislative activity in a number of states during the past couple of years. And, while the legislative charts in this issue indicate the most recent responses received from the individual states, some states did not provide updated information to this year's survey. Therefore, *Sprinkler Age* recommends that our readers visit the National Fire Protection Association's (NFPA) Fire Sprinkler Initiative website, firesprinklerinitiative.org, on a regular basis. Click on the Legislation & Adoptions tab at that site to find the most up-to-date information on local and state adoption of residential fire sprinkler requirements, as well as anti-sprinkler legislation that has been introduced.

When asked about sprinkler retrofit requirements for occupancies (question 11), numerous states indicated they have requirements. Regarding nursing homes, Connecticut, Florida, Georgia, Maine, Michigan, Minnesota, Missouri, New Jersey, and Virginia have retrofit requirements. Retrofit requirements for healthcare can be found in Florida,

Canada Inspection, Testing & Maintenance and Seismic Protection Requirements					
Province	Required for those who perform inspection, testing and maintenance of water-based fire protection systems:				Seismic protection required on fire sprinkler systems:
	NICET Level I	NICET Level II	NICET Level III	Other (CSA, Local)	Yes/No
Alberta*	-	-	N	-	Only in active seismic areas
British Columbia	N	N	N	N	Yes
Manitoba	N	N	N	Y ¹	Only in active seismic areas
New Brunswick*	-	-	N	-	Only in active seismic areas
Newfoundland*	-	-	N	-	Only in active seismic areas
Nova Scotia*	-	-	N	-	Only in active seismic areas
Ontario*	-	-	N	-	Only in active seismic areas
Prince Edward Island*	-	-	N	-	Only in active seismic areas
Quebec*	-	-	N	-	Only in active seismic areas
Saskatchewan*	-	-	N	-	Only in active seismic areas

¹Manitoba requires apprenticeship certification for sprinklers.

Maine, and New Jersey. Virginia has requirements for hospitals and Connecticut for elderly occupancies.

Georgia, Maine, and New Jersey have retrofit requirements for public assemblies (PAs). Georgia also has retrofitting for existing PAs as listed in 120-3-3.

For hotels and apartments, Florida, Nevada, and Virginia have retrofit requirements. Connecticut retrofits only hotels. Florida and Nevada have requirements for dwellings and lodging housing. New Jersey retrofit institutional occupancies. New Jersey, Virginia, and Wyoming have requirements for college dorms.

Scope of Enforcement is Limited or All Encompassing	Recognized Code Adoption for Local Authorities or Individual Preference	In a Code Revision Cycle Now? Codes & Years Anticipating Adoption	Adopted NFPA 25		Local Jurisdiction With Residential Ordinances			Signed copy of owner's certificate as part of working submittal plan	State Requires PE to do Sprinkler Design Concepts	Office of State Fire Marshal Has Authority Over All Projects in State or Only Over State-Owned/ Financed Projects
			Province-wide	Locally	Single-Family	Multi-Family	High-rise Condo/ap			
All Encompassing	RCA	Yes, 2015 NBCC	-	-	-	-	-	-	Yes	Yes, federal projects follow NBC
No provincial code enforcement; done by local govts. (municipalities & regional districts)	Code adopted by province & applies in all local govts.	Yes, working towards adopting NBC 2015 in year 2018	Y, 2008	-	-	-	-	Local govts would decide	Yes	N/A
All Encompassing	-	Yes, 2015 NBC	Y, under Manitoba	Fire Code	No	No	No	No	Yes	All, the codes apply to all bldgs. except those under federal juris.
All Encompassing	RCA	Yes, 2015 NBC	-	-	-	-	-	-	No	Yes, federal projects follow NBC
All Encompassing	RCA	Yes, 2015 NBC	-	-	-	-	-	-	Yes	Yes, federal projects follow NBC
All Encompassing	RCA	Yes, 2015 NBC	-	-	-	-	-	-	Yes	Yes, federal projects follow NBC
All Encompassing	RCA	Yes, OBC	-	-	-	-	-	-	Yes	Yes, federal projects follow NBC
All Encompassing	RCA	-	-	-	-	-	-	-	Yes	Yes, federal projects follow NBC
All Encompassing	RCA	Yes, 2015 NBCC	-	-	-	-	-	-	Yes	Yes, federal projects follow NBC
All Encompassing	RCA	Yes, 2015 NBCC	-	-	-	-	-	-	Yes	Yes, federal projects follow NBC

(cont. from previous page) IMC-International Mechanical Code; IRC-International Residential Code; LSC-Life Safety Code; NBC-National Building Code of Canada; NEC-National Electric Code; NFPA 5000-Building Construction & Safety Code.

State	State Code Adoption	Additional NFPA Standards	NFPA 13 Edition Adopted	Local Jurisdiction Can Use Latest NFPA 13 Ed.	Minimum Base or a Min/Max for Enforcement
Alabama*	2009 IBC & IFC	No	2007	Yes	Minimum
Alaska	2012 IBC, IFC, IMC & IFGC - all amended	Yes, http://dps.alaska.gov/fire	2010	Yes	Minimum
Arizona*	2003 IFC	Yes, view at dfbls.az.gov under Fire Marshal Arizona State Fire Code. Amendments & code adopted through AZ rule writing process	IFC, 2003 NFPA 13, 1999	Yes	Minimum
Arkansas*	2012 IBC, IRC & IFC - all amended	Yes, requirement for sprinklers in one and-two-family dwellings deleted	2010	No	Minimum
California	2016 IBC & IFC, both amended	Yes, https://codes.iccsafe.org/public/chapter/content/2237	2016	Yes	Minimum
Colorado	2015 IBC & IFC; 2015 IRC; 2012 NFPA 101	No	2013	Yes	Depends on occup. type
Connecticut*	2012 IBC, IFC & NFPA 101; 2012 NFPA 1 - amended	Yes, new buildings greater than four stories & all new schools	2010	No	Min/Max
Delaware	2012 NFPA 101 & 2015 NFPA 1, both amended	Yes, http://regulations.delaware.gov	2013	No	Minimum
District of Columbia*	2012 IBC & IFC, both amended	Yes, visit dcra.dc.gov/page/permits_codes_zoning to see applicable codes	Ed. 2010. See Ch 35, IRC 2012 for all ref. stds.	No	Minimum
Florida*	2012 IBC, NFPA 1 & NFPA 101 - all amended	Yes, Florida specific amendments to: NFPA 1, NFPA 1 & IBC. myfloridacfo.com/division/sfm/bfp ; http://codes.iccsafe.org/Florida.html	2010	No	Minimum
Georgia	2012 IBC, IFC & NFPA 101 - all amended	Yes, all modifications to NFPA 13, 15, 20, 22, 24 & 101 are contained in GA Chapter 120-3-3 (revised 1/1/2015)	2013	-	Minimum
Hawaii^	2006 IBC & UPC, 2015 IECC; 2014 NEC; 2010 ASME; 2012 NFPA 1 - all amended	Yes, NFPA 1 Act 53 of the 2017 legislative session prohibits the counties from req. automatic fire sprinklers in one- & two-family occup.; provided this shall not apply to new homes that req. a variance from access road or fire fighting water supply req.; http://www.capitol.hawaii.gov/measure_indiv.aspx?billtype=GM&billnumber=1153&year=2017	2010	Yes	Minimum
Idaho*	2012 IBC & IFC - both amended	No	2013 by ref.	No	Minimum
Illinois*	2006 or later IBC (default code in those areas w/out a bldg code); 2000 NFPA 1 - amended	n/a	Ed. in effect when sp sys installed	Yes	Minimum
Indiana*	2006 IBC & IFC, 2006 IMC/IFG - all amended	Yes. Indiana amendments to codes and standards are at in.gov/legislative/iac/iac_title?iact=675	-	No	Min/Max
Iowa§	2015 IBC & IFC; 2012 NFPA 101; 2015 IMC, UPC & IECC; 2012 UBC, 210 ADAAG, 2014 NFPA 70	Yes, bcinfo@dps.state.ia.us ; fminfo@dps.state.ia.us	2013 NFPA 13, 13D & 13R by ref. from IBC & IFC	Yes	Minimum
Kansas	2006 IBC & IFC, amended; 2006/2012 NFPA 101	No	2007	Yes	Minimum
Kentucky*	NFPA 1 & 101 & IBC, amended	No	2000	No	Min/Max
Louisiana	2012 NFPA 1 & 101; 2015 IBC - amended	No	2016	Yes	Minimum
Maine	2009 IBC; 2006 NFPA 1 & 2009 101	Yes, removal of req. of one- and two-family homes to be sprinklered	2016	-	Minimum
Maryland*	2012 IBC, NFPA 101 & NFPA 1 - all amended	Yes, mdsp.org/sfpc ; Melt out ceiling tiles not permitted; fire pumps not permitted in vaults or pits	2010	Yes	Minimum
Massachusetts	2009 IBC amended, IFC partially amended, 2012 NFPA 1 amended (1/1/15)	Yes, reduced sprinkler thresholds	2010	No	Min/Max
Michigan	2012 NFPA 101 & 2006 NFPA 1 - both amended	No	2010	No	Min/Max
Minnesota	2012 NFPA 101, 2012 IBC & IFC - all amended	Yes, see fire.state.mn.us	2010	Not recommended	Min fire code; Min/Max bldg. code

*Hawaii information is provided for Oahu only. ^In Florida, systems <50 heads may be designed by contractor; shop drawings not required to be sealed by a P.E. §Iowa has adopted NFPA 25 statewide by reference from 2015 IFC and 2014 NFPA 25. Abbreviations: BOCA-National-Building Official and Code Administrators International; IBC-International Building Code; IFGC-International Fuel Gas Code; IMC-International Mechanical Code; IRC-International Residential Code; LSC-Life Safety Code; NBC-National Building Code of Canada; NEC-National Electric Code; NFPA 5000-Building Construction & Safety Code.

Scope of Enforcement is Limited or All Encompassing	Recognized Code Adoption (RCA) for Local Authorities or Individual Preference (IP)	In a Code Revision Cycle Now? Codes & Years Anticipating Adoption	Adopted NFPA 25		Local Jurisdiction With Residential Ordinances			Signed copy of owner's certificate as part of working submittal plan	State Requires PE to do Sprinkler Design Concepts	Office of State Fire Marshal Has Authority Over All Projects in State or Only Over State-Owned/ Financed Projects
			Statewide	Locally	Single-Family	Multi-Family	High-rise Condo/ap			
All Encompassing	-	Yes, 2015 ICC, IFC	Yes, '08	-	-	-	-	No	Yes	All
All Encompassing	-	No	Yes, '11	-	-	-	-	No	No	All
Limited	RCA	Yes, IFC 2012	Yes, '98	-	-	-	-	No	All	State Only
All Encompassing	RCA	No	Yes, 2011	-	No	No	No	-	No	All
All Encompassing	RCA	Yes, 2018 IBC & IFC	Yes, '11	-	-	Yes	Yes	Yes	Yes or licensed fire sprinkler contractor	State Only for creating regulation state and occupancies A, E, H, I, R
Limited	IP	No	Yes	-	Yes	Yes	Yes	Yes	NICET III or Above	All for suppression systems
All Encompassing	RCA	No	Yes, '11	-	No	No	No	No	No	State Only
All Encompassing	RCA	Yes, 2018 NFPA codes	Yes, '14	-	Yes	-	-	Yes	No	All
All Encompassing	n/a	Yes, 2015 ICC I-Codes amended	Yes	-	Yes	Yes	Yes	No	No	None; DCRA has authority over construction
All Encompassing	RCA	Yes, 2015 NFPA 1, NFPA 101	Yes, '11	-	Don't track	but not aware	of any	Yes	Yes	State Only
All Encompassing except 1 & 2 family & individually-owned residences	-	No	Yes, '11	No	No	No	No	No	No	Juris. varies
Limited	RCA	Yes, 2015 NFPA 1; 2017 NEC; 2012 IBC, IRC & UPC	Yes, '11	Yes '11	No	Yes	Yes	No	Yes	No State Fire Marshal's Office
Limited	RCA	Yes, 2015 IBC & IFC	Yes, '11	-	No	No	No	No	No	State Only
All Encompassing except 1 & 2 family homes and public schools	IP, locals adopt their own codes	No	Yes, ed when sp sys installed	-	Yes	Yes	Yes	No	Yes	All
All Encompassing	-	Yes, 2012 IBC, IFC, IMC, IFGC - eff. 12/1/14	Yes, '11	-	No	No	No	-	No	All
All Encompassing	IP	No	Yes	-	No	No	No	No	Yes	All
Limited	IP	Yes, 2018 IBC, IFC, NFPA 101	No	No	No	No	No	Yes	Yes	All
All Encompassing	RCA	No	Yes	Yes	Yes	Yes	No	-	No	N/A
All Encompassing	RCA	Yes	Yes, '14	-	-	-	-	Yes	Yes	All
Limited	RCA	Yes, 2015 IBC	Yes, '14	-	Yes	State	State	No	No	All
All Encompassing	IP	No	Yes, '14	-	No	No	No	Yes	No	All
All Encompassing	-	Yes, updating fire & bldg codes in Jan. 2018	Yes, '11	-	Yes	-	-	-	No	-
Limited	RCA	No	Yes, '11	No	No	No	No	No	No	State Only & other regulated facilities
All Encompassing	RCA	Yes, 2018 IFC in 2020	Yes, '11	-	No	No	No	No	No	All

Abbreviations: BOCA/National-Building Official and Code Administrators International; IBC-International Building Code; IFC-International Fire Code; IFGC-International Fuel Gas Code; IMC-International Mechanical Code; IRC-International Residential Code; LSC-Life Safety Code; NBC-National Building Code of Canada; NEC-National Electric Code; NFPA 5000-Building Construction & Safety Code.

State	State Code Adoption	Additional NFPA Standards	NFPA 13 Edition Adopted	Local Jurisdiction Can Use Latest NFPA 13 Ed.	Minimum Base or a Min/Max for Enforcement
Mississippi	2015 IBC & IFC	No	-	2013 by ref.	Minimum
Missouri*	None	No	n/a	Yes	n/a
Montana	2012 IBC and IFC	No	2010	Yes	-
Nebraska	2009 IBC; 2003 NFPA 1; 2000 NFPA 101	No	2002	No	Minimum
Nevada	2012 IBC & IFC, amended; 2012 IWUIC, UMC & UPC	No	2013	Yes	Minimum
New Hampshire*	2009 IBC amended; 2015 NFPA 1 & 101 - both amended	Yes, no sprinkler req. for one- and two-family dwellings	2013	Yes, w/variance	Minimum
New Jersey*	2015 NJ IBC New Construction; 2006 IFB NJ as maintenance code - both amended	No	2013 as ref. by 2015 IBC	Yes only by the designer for specific issues not in 2013 ed.	Min/Max
New Mexico*	2009 IBC & 2003 IFC - both amended	Yes, 903.2 exception does not apply; 903.2.7 does not apply to detached one- and two-family homes	1999, ref by IFC 2003	Yes	Minimum
New York	2015 IBC & IFC, both amended	Yes modify R313 of 2015 IFC	2013	No	Minimum
North Carolina	2009 IBC & IFC, amended	No	2013	Yes	Min/Max
North Dakota*	2009 IBC, amended; IRC, IMC & IFGC amended	Yes, legislative action prevents the installation of fire sprinklers in new one- and two-family homes	n/a	Yes	Minimum
Ohio*	2009 IBC & IFC, both amended	Yes, A-3 sprinkler req., R sprinkler req.	2010	No	Minimum
Oklahoma*	2006 IBC & IFC, 2007 NFPA 101, all amended	No	2007	Yes	Minimum
Oregon	IBC & IFC, both amended	No	2013	Yes	Min-Fire/Max-Bldg
Pennsylvania*	2009 IBC & IFC	No	2007	No	Minimum
Rhode Island*	2012 IBC, NFPA 1 & 101 - all amended	Yes, residential deleted	2010	Yes	Minimum
South Carolina	2015 IBC & IFC, both amended	Yes, see llr.state.sc.us/pol/bcc	2013	Yes	Minimum
South Dakota	2009 IBC & IFC - both amended	Yes, threshold for sprinkler protection multi-family dwellings at six or more units	2010	Yes	Minimum
Tennessee	2012 IBC amended; 2012 IFC & NFPA 101	Yes, eliminate sprinklers from one- and two-family dwellings & townhomes	2010	Yes	Minimum
Texas*	2012 NFPA 101 amended	No	2013	Yes	Minimum
Utah	2015 IBC & IFC - both amended; 2015 NFPA 101	No	2013	No	Minimum
Vermont	2015 IBC, NFPA 1 & NFPA 101 - all amended	Yes, firesafety.vermont.gov	2013	No	Minimum
Virginia*	2012 IBC & IFC - both amended	Yes, IBC Ch 9 modifications per the VA USBC Par I; dhcd.virginia.gov/images/SBC/CodeBooks/2012%20Virginia%20Construction%20Code.pdf	2010 per ref. stds. of IBC & IFC 2012	Yes	Min/Max
Washington	2015 IBC, IFC, IRC, IMC & UPC; 2015 NFPA 101 amended; NFPA 5000 amended	Yes, IRC. Did not adopt Ch 11-25. Residential sprinklers if added need to meet IRC P2904 or NFPA 13D	2013	No	Min/Max
West Virginia	2015 IBC, NFPA 1 & NFPA 101 - all amended	Yes, sprinklers as option in one- and two-family dwellings	2013	No	Minimum
Wisconsin*	2009 IBC & NFPA 1 - both amended	Yes, systems req. in most bldgs over 60 ft in height. Different sprinkler thresholds protection and alternatives for smaller apt bldgs & townhouses, Comm 6.2.09 (5) Wis. Section Code	2007	Yes	Minimum
Wyoming	2015 IBC & IFC	No	2013	Yes	Minimum

Abbreviations: BOCA/National-Building Official and Code Administrators International; IBC-International Building Code; IFC-International Fire Code; IFGC-International Fuel Gas Code; IMC-International Mechanical Code; IRC-International Residential Code; LSC-Life Safety Code; NBC-National Building Code of Canada; NEC-National Electric Code; NFPA 5000-Building Construction & Safety Code; SBC-Standard Building Code; SFPC-Standard Fire Prevention Code; UBC-Uniform Building code; UFC-Uniform Fire Code.

Scope of Enforcement is Limited or All Encompassing	Recognized Code Adoption (RCA) for Local Authorities or Individual Preference (IP)	In a Code Revision Cycle Now? Codes & Years Anticipating Adoption	Adopted NFPA 25		Local Jurisdiction With Residential Ordinances			Signed copy of owner's certificate as part of working submittal plan	State Requires PE to do Sprinkler Design Concepts	Office of State Fire Marshal Has Authority Over All Projects in State or Only Over State-Owned/ Financed Projects
			Statewide	Locally	Single-Family	Multi-Family	High-rise Condo/ap			
Limited	IP	No	No	-	Yes	-	-	Yes	Yes	State Only
n/a	IP	No	No	-	No	Yes	Yes	No	No	None
Limited	RCA	No	Yes, '11	-	No	No	No	No	No	All
All Encompassing	RCA	Yes, 2012 NFPA 101	Yes, '02	-	No	No	No	No	No	All
Limited	RCA	Yes, 2018 IFC, IBC, IWUIC, UMC & UPC	Yes, '11	-	No	Yes	No	Yes	Yes	State Only
All Encompassing	-	Yes, 2015 NFPA 1 w/ ref.; 2015 IBC & IRC	-	-	Yes	Yes	No	No	Yes	State Only
All Encompassing	RCA	No	No	No	No	No	No	No	Yes	State Only
All Encompassing	RCA	Yes, 2015 IFC	Yes, '98	-	No	No	No	-	Yes	All
Limited	RCA	Yes	Yes, '14	-	Yes	Yes	Yes	Yes	Yes	State Only
All Encompassing	-	Yes, 2015 IBC w/ amendments	Yes, '14	-	Yes	-	-	Yes	No	State Only
Limited	IP	Yes, 2012 IBC, IRC, IMC, IFGC	No	No	-	-	-	-	No	State Only
Limited	-	No	Yes, '08	Yes, OH Fire Code	Yes	Yes	Yes	-	No	State Only
Limited	RCA	No	Yes, '02	-	-	-	-	-	No	All
All Encompassing	IP	Yes, 2009 IRC 7/1/11	Yes, '08	-	No	No	No	Yes	No	State Only
All Encompassing	RCA	No	No	No	Yes	Yes	Yes	-	No	PA Fire Marshal has no code enforcement authority
All Encompassing	RCA	Yes, 2015	Yes, '11	-	No	Yes	Yes	-	Yes	All
See llr.state.sc.us/pol/bcc	See llr.state.sc.us/pol/bcc	No	Yes, '14	-	No	No	No	Yes	Yes	All*
Limited	RCA	No	No	-	No	Yes	Yes	-	Yes	Certain public bldgs outlined in statute
All Encompassing	IP	No	Yes, '11	-	Yes	Yes	Yes	No	Yes	State Only
Limited	IP	No	Yes	-	-	-	-	No	No	State Only
All Encompassing	RCA	No	Yes, '14	-	Yes	Yes	Yes	No	No	State Only
All Encompassing	RCA	No	Yes, '14	No	-	-	-	Yes	No	All
-	RCA	Yes, 2015 IBC w/ ref. standards; 2015 IFC w/ ref. standards; 2015 IRC w/ ref. standards	Yes, '11	No	No	No	No	-	-	-
All Encompassing	RCA	Yes, 2018	Yes, '14	-	Yes	Yes	Yes	No	No	n/a
Limited	-	No	Yes, '14	-	-	-	-	No	No	All
All Encompassing	IP	Yes, 2012 ed. of IBC, IECC, IMC, IFGC, IEBC & NFPA 1	Yes, '08	-	-	-	-	-	Engineer, architect, or sprinkler contractor	n/a
All Encompassing	RCA	No	Yes, '14	-	No	No	No	No	Yes	All

*South Carolina has statewide authority to enforce state and local fire codes, but the requirement to use its free plan review services comes from the primary AHJ or AHJs that control permits, licenses, etc., and can involve AHJs who are state or local or may involve both.

Illinois and New Hampshire retrofit per NFPA 101, Iowa per Chapter 11 of the 2015 IFC, and South Carolina per Section 1103.5 of the 2015 ICC.

High-rise retrofits are in place for California, Florida, Louisiana, New Jersey, and Nevada. Massachusetts retrofits nightclubs. Arkansas has retrofit requirements for I-2 occupancies. Michigan has retrofit requirements pending for college dorms and correctional facilities. Oregon is considering retrofitting high-rises. Nevada has requirements for building occupancies.

When asked about towns or cities having retrofit requirements in excess of state requirements (question 12a), several states indicated “yes;” however, most did not provide a list of cities, towns and/or villages.

Conclusion The AFSA staff has made every effort to provide the most accurate and current information. Because of the time lapse between gathering the information and publication of these charts, changes may have occurred. Also, code adoption cycles/processes vary from state to state, but most statewide codes are updated once every three years. So states that are not listed as considering adoptions within the next year may in fact be initiating the process of reviewing all available codes.

Contact the respective AHJ for more detailed information for particular states. We thank the many individual state fire marshals, deputy state fire marshals, deputy chiefs, fire protection engineers, code specialists, and others who participated in this year’s survey. Some respondents did not provide a specific telephone number for questions regarding jurisdiction over fire sprinkler plan review/inspections. In those cases, we have listed the telephone number for the state fire marshal’s office, with the hope that a state representative can direct contractors to the appropriate authority. ■

State Licensing & Certification Requirements										
State	Requires Certification Of:		Requires Licensing For:					Requires for Sprinkler Drawings:		
	Plan Reviewers	Inspectors	Contractors	Fitters	Designers	Inspections	Fire Alarm Inspections	PE/Architect Seal	NICET Level III	NICET Level IV
Alabama*	N	N	Y	N	N	-	-	Y	Y	-
Alaska	Y	Y	Y	Y	Y	Y	Y	-	Y	-
Arizona*	Y	Y	Y	Y	Y	-	-	Y	-	-
Arkansas*	N	N	Y	Y	Y	-	-	N	-	Y
California	N	-	Y	Y	Y	N	N	Y	N	N
Colorado	Y	Y	Y	Y	-	-	-	Y	Y	Y
Connecticut*	Y	Y	Y	Y	Y	-	-	-	Y	-
Delaware	N	N	Y	N	Y	Y	N	N	N	N
D.C.*	N	Y	Y	Y	Y	-	-	N	Y	-
Florida*	Y	Y	Y	N	Y	Y	Y	Y*	-	-
Georgia	-	Y	Y	N	Y	Y	Y	N	N	Y
Hawaii	N	N	Y	Y	Y	-	-	Y	Y	N
Idaho*	N	Y	Y	N	N	-	-	-	N	N
Illinois*	N	N	Y	Y	Y	-	-	Y	Y	Y
Indiana*	N	N	N	N	Y	-	-	Y	Y	Y
Iowa	N	N	Y	Y	Y	Y	Y	Y	Y	Y
Kansas	N	N	N	N	N	N	N	Y	N	N
Kentucky*	Y	Y	Y	N	Y	-	-	Y	Y	Y
Louisiana	N	N	Y	Y	N	-	-	Y	Y	N
Maine	Y	Y	Y	N	Y	Y	N	Y	Y	Y
Maryland*	Y	Y	Y	Y	Y	-	-	-	-	N
Massachusetts	N	N	Y	Y	N	-	-	Either Depends	Either Depends	Depends
Michigan	N	Y	Y	N	Y	-	-	N	N	N
Minnesota	N	N	Y	Y	N	N	N	N	N	Encouraged
Mississippi	N	N	Y	N	Y	N	N	Y	Y	N
Missouri*	N	N	N	N	N	-	-	Y	Y	N
Montana	Y	N	Y	Y	Y	-	-	Y	-	-
Nebraska	Y	Y	Y	N	N	Y	Y	N	Y	Y
Nevada	Y	Y	Y	Y	Y	Y	Y	PE or Y	NICET II	Req.
New Hampshire*	N	N	N	N	Y	-	-	Y	-	-
New Jersey*	Y	Y	Y	N	N	-	-	Only	NICET II	-
New Mexico*	N	Y	Y	Y	-	-	-	Y	-	-
New York	N	Y	N	N	N	N	Y	Y	N	N
North Carolina	-	Y	Y	Y	Y	Y	N	Y	Y	N
North Dakota*	N	N	N	N	N	-	-	N	N	N
Ohio*	Y	Y	Y	Y	Y	-	-	N	N	Y & cert des
Oklahoma*	N	N	Y	Y	Y	-	-	-	Y	-
Oregon	N	N	N	N	N	N	N	N	N	N
Pennsylvania*	Y	Y	N	N	N	-	-	N	N	N
Rhode Island*	Y	Y	Y	Y	Y	-	-	Y	-	-
South Carolina*	Y	Y	Y	N	Y	Y	Y	-	-	-
South Dakota	N	N	N	N	N	-	-	Must be sealed by	sealed by	1 of the 3
Tennessee	N	Y	Y	N	Y	-	-	N	Y	N
Texas*	Y	Y	Y	N	Y	-	-	Y	Y	-
Utah	Y	Y	Y	N	N	-	-	State Fire Marshal	Marshal	Cert
Vermont	N	Y	Cert Only	Cert Only	Cert Only	Cert Only	Cert Only	Y	Y	-
Virginia*	Y	Y	Y	Y	Y	-	-	N	N	N
Washington	N	N	Y	Cert	Cert	Cert	Ini.wa.gov	Y	Y	Y
West Virginia	N	N	Y	Y	Y	-	-	-	Y	-
Wisconsin*	Y	Y	Y	Y	Y	-	-	or sp ctr	N	-
Wyoming	Y	Y	N	N	N	N	N	Y	-	-
Information not available for Canada. A “-” indicates no response was given. *In Florida, a contractor can design systems with less than 49 sprinkler heads. *In South Carolina, certification per Title 6, Chapter 8 of SC Code of Laws. The SC-specific design and shop drawings requirements can be found in Title 40, Ch 10 of the SC Code of Laws.										

Local Jurisdictions and Retrofit Information	
Alabama*	334-241-4166 (334-241-4166)
Alaska	907-269-5491
Arizona*	602-364-1003
Arkansas*	501-618-8624 (501-618-8624)
California	916-327-4998
Colorado	303-239-4600
Connecticut*	860-713-5750
Delaware	302-323-5365
D.C.*	202-442-4589
Florida	850-413-3610 (850-413-3610)
Georgia	404-617-8515 (404-617-8515)
Hawaii	808-723-7176 (808-723-7176)
Idaho*	208-334-4370
Illinois*	312-814-8960
Indiana*	317-232-1421 (317-233-1421)
Iowa	515-725-6145 (515-725-6145)
Kansas	785-296-0659
Kentucky*	502-573-0365 x201
Louisiana	1-800-256-5452 (1-800-256-5452)
Maine	207-626-3880 (207-626-3889)
Maryland*	410-713-3780 (410-766-3881)
Massachusetts	978-567-3375 (978-567-3375)
Michigan	517-241-9371 (517-241-9371)
Minnesota	651-201-7204
Mississippi	601-359-1061
Missouri*	573-751-2930 (573-522-6207)
Montana	406-791-2710
Nebraska	402-471-2027
Nevada	775-684-7532
New Hampshire*	(603-271-3294)
New Jersey*	609-984-7609 (609-633-6741)
New Mexico*	505-476-0080
New York	518-474-4073
North Carolina	919-647-0011
North Dakota*	701-328-5555
Ohio*	614-728-5460 (614-728-5460)
Oklahoma*	405-522-5006
Oregon	503-934-8269 (503-934-8269)
Pennsylvania*	717-346-2729
Rhode Island*	401-393-7717
South Carolina	803-896-9800
South Dakota	605-773-3562
Tennessee	615-741-6246
Texas*	512-305-7909
Utah	801-284-6350
Vermont	802-479-7566
Virginia*	804-371-7150 (804-371-7150)
Washington	360-596-3913
West Virginia	304-558-2191
Wisconsin*	608-266-0251
Wyoming	307-777-8710
Numbers in () are for retrofit questions. Phone numbers not available for Canada.	

U.S. Inspection, Testing & Maintenance and Seismic Protection Requirements					
State	Required for those who perform inspection, testing and maintenance of water-based fire protection systems:				Seismic protection required on fire sprinkler systems:
	NICET Level I	NICET Level II	NICET Level III	Other (CSA, Local)	Yes/No
Alabama*	-	-	Y	-	Y
Alaska	-	Y	-	-	Y
Arizona*	-	Y	-	-	Y
Arkansas*	-	N	N	-	Y
California	N	-	N	Y	Y
Colorado	-	-	-	No Req	N
Connecticut*	-	N	N	-	Y
Delaware	-	-	Y	-	Per NFPA 13
D.C.*	-	-	Minimum	-	N
Florida	Y	Y	-	-	N
Georgia	N	via waiver	Y	N	N
Hawaii	N	N	N	No Req	Y
Idaho*	-	-	-	No Req	Y
Illinois*	-	Y or	Y or	or union trained	Only as req by NFPA 13
Indiana*	-	-	-	-	Yes, dep on area of state
Iowa	Y	Y	Y	-	Yes
Kansas	No req	No Req	No Req	No Req	N
Kentucky*	-	N	N	-	Y
Louisiana	-	Y	N	-	N
Maine	-	Y	N	-	N
Maryland*	-	Y	N	-	N
Massachusetts	-	State	License	-	Yes, in some areas
Michigan*	-	N	N	-	Y
Minnesota	-	-	-	No Req	N
Mississippi	N	N	N	N	N
Missouri*	-	N	-	No Req	Y
Montana	-	-	-	No Req	Y
Nebraska	-	N	Y	N	N
Nevada	N	N	N	Y	Y
New Hampshire*	N	Per	NFPA 1 &	NFPA 101	Y
New Jersey*	-	Y	N	-	Yes, some
New Mexico*	-	No Req	No Req	No Req	Y
New York	No Req	No Req	No Req	No Req	Based on IBC req
North Carolina	No Req	No Req	No Req	No Req	Y
North Dakota*	-	N	N	-	-
Ohio*	-	N	N	Y state cert	Y
Oklahoma*	-	Y	-	-	N
Oregon	No Req	No Req	No Req	No Req	Y
Pennsylvania*	-	-	-	-	Y
Rhode Island*	-	N	-	-	Y
South Carolina*	-	-	-	-	Y
South Dakota	-	N	-	-	N
Tennessee	-	-	-	No Req	Y
Texas*	-	Y	-	-	N
Utah	-	Yes, State Fire	Marshal Cert	-	Y
Vermont	N	N	N	Y, state cert.	Yes, not all systems
Virginia**	-	-	-	-	N
Washington	-	Y	-	-	Y
West Virginia	-	NICET I	Req	-	N
Wisconsin*	-	State	Registered	Tester	Y
Wyoming	No Req	No Req	No Req	No Req	Y
A “-” indicates no response was given. *In Michigan, in regulated facilities they have to be Act 144 Certified *In South Carolina, the adopted bldg code determines when seismic protection is required.					