

Legislative Review 2018

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

This issue of *Sprinkler Age* features our 31st 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 2018. If a response was not received, information that appeared in the 2017 Legislative Review (November 2017 *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 2018 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 significant modifications (or provide a Web address to reference)?
- 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 (AHJs)?
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? Other (i.e., NFPA-CWBSD, etc.)
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 32 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 Manitoba and Nova Scotia 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 2018 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. Utah has

more restrictive legislation pending for hotels, apartments, dwellings, lodging housing, health care, nursing homes, and educational facilities.

Question 10 concerns the International Residential Code (IRC). This year’s survey asked about the 2018 edition. Most states indicated they were not adopting that edition. Florida indicated the state will adopt it for 2017-2018. Georgia House Bill 1196 (2010 legislative session) prohibits any residential sprinkler requirement, past or future. Minnesota will adopt the 2018 IRC “modified-most likely; one- and two-family dwellings probably removed; townhomes required.” Utah is pending adoption with the sprinkler requirement removed.

For states that indicated “no changes” from last year’s survey and for those that did not respond this year, responses are for the 2015 edition of the 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. 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. North Dakota is adopting but sprinklers are not able to be required in single-family homes. 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, Mississippi, New Hampshire, New Jersey, North Carolina, and Rhode Island are adopting the IRC with the residential sprinkler requirement removed. 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, Hawaii, Indiana, Massachusetts, Montana, Nevada, and Oregon indicated they

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 2015 amended	No	2013	Yes, with AHJ approval	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; IFCC-International Fire Code; IFGC-International Fuel Gas Code; (cont. on next page)

were 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.

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 in regards to the 2018 edition of the IRC. 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 on 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,

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	-	-	-	Y ²	Yes if required by code
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. ²Nova Scotia requires a Red Seal sprinkler fitter.

Connecticut, Florida, Michigan, Minnesota, New Jersey, and Virginia have retrofit requirements. Georgia has requirements for existing personal care homes upgrading to assisted living homes. Retrofit requirements for healthcare can be found in Florida and New Jersey. Minnesota has requirements

for retrofitting hospitals per the 2012 IFC. Virginia has requirements for hospitals and Connecticut for elderly occupancies.

Georgia and New Jersey have retrofit requirements for public assemblies (PAs).

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/aprt			
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	Provincewide adoption	Yes, 2020 NBC	Yes, 2014	-	No	No	No	Yes	No	Province Only
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	2015 IBC & IFC; 2013 NFPA 1 & 101	No	2013	Yes	Minimum
Alaska	2012 IBC, IFC, IMC & IFGC	Yes, http://dps.alaska.gov/fire/regulations	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	2015 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. See Chapters on "Referenced Standards" in each Adopted Code book (i.e., In the 2013 DCBC, see Ch 35; in the 2012 IEBC, see Ch 16; in the 2013 DC Fire Code, see Ch 80.)	Ed. 2010. See Ch 35, IRC 2012 for all ref. stds.	No	Minimum
Florida*	2015 IBC, NFPA 1 & NFPA 101	Yes, Florida specific amendments to: NFPA 1, NFPA 101 & IBC. myfloridacfo.com/division/sfm/bfp ; http://codes.iccsafe.org/Florida	2013	No	Minimum
Georgia	2012 IBC, IFC & NFPA 101 - all amended	Yes, all modifications to NFPA 13, 13R, 14, 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	2015 NFPA 101, IBC & IFC - all amended	Yes, www.doi.idaho.gov/sfm	2016	Yes	Minimum
Illinois	SFMO enforces 2000 ed. of NFPA 101 for state fac. and state-licensed fac. Each local juris. can adopt its own codes. State est. 2006 IBC, IEBC, IPMC & 2008 NFPA 70 min. standards for juris. that have not formally adopted codes (admin. by the IL Capital Dev. Board)	No	2002 minimum; Juris. that had adopted codes as of 2011 may retain older ref. ed of NFPA in their adopted codes	Yes	Local Juris. may adopt more stringent/newer codes
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	2015 NFPA 101; 2015 IBC - amended	Yes, http://lsuccc.dps.louisiana.gov/pdf/Title_17_UCC.pdf	2016	-	Minimum
Maine	2012 IBC; 2009 NFPA 1 & 101 - all amended	Yes, removal of req. of one- and two-family homes to be sprinklered	2016	Yes	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 NPFA 101 & 2006 NFPA 1 - both amended	No	2010	No	Min/Max

*In Florida, systems <50 heads may be designed by contractor; shop drawings not required to be sealed by a P.E. **Hawaii information is provided for Oahu only. †Idaho has given an exception to four cities: Boise, Caldwell, Meridian, and Nampa. The SFMO is the authority over all state projects regardless of location (i.e., BSU - the university is in Boise; however, the state handles all sprinkler review and inspections). ‡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-Internation-

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/apt			
All Encompassing	IP	No	-	-	-	-	-	Yes	All	State Only
All Encompassing	-	Yes, IBC, IFC, IEBC, IFGC & IMC - 2018	Yes, '11	-	-	-	-	No	All	None
Limited	RCA	Yes, IFC 2012	Yes, '98	-	-	-	-	All	No	State Only
All Encompassing	RCA	No	Yes, '11	-	No	No	No	No	All	State Only
All Encompassing	RCA	Yes, 2018 IBC & IFC	Yes, '11	-	-	Yes	Yes	Yes	Yes or lic. fire sp. contractor	State Only for crating regulation state and occup. 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	-	Yes, 2018 NFPA codes	Yes, '14	-	Yes	Yes	Yes	Yes	No	All
All Encompassing	n/a	Yes, 2015 ICC I-Codes amended	Yes	-	Yes	Yes	Yes	No	No	None, DC has authority over construction
All Encompassing	RCA	Yes, 2018 NFPA 1, NFPA 101	Yes, '14	-	No	No	No	No	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	No	Yes	Yes	No	No	No State Fire Marshal Office
Limited	RCA	Yes, 2015 IBC & IFC	Yes, '14	-	No	No	No	Yes	No	All fire sprinkler systems; State Only projects
Limited	IP	Yes, 2015 NFPA 101	No	Yes, varies by juris.	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	Yes, 2017 NFPA 70	Yes	-	No	No	No	No	Yes	All
All Encompassing	RCA	No	Yes, '09	-	-	-	-	Yes	Yes	All
All Encompassing	RCA	No	Yes	Yes	Yes	Yes	No	-	No	n/a
All Encompassing	RCA	No	Yes, '14	-	-	-	-	Yes	Yes	All
Limited	RCA	Yes, 2018 NFPA 1 & 101	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

tional 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
Minnesota	2012 NFPA 101, 2012 IBC & IFC - both amended	Yes, see https://dps.mn.gov/divisions/sfm/fire-code/Pages/state-fire-code.aspx	2010	No	Min fire code; Min/Max bldg. code
Mississippi*	2015 IBC & IFC	No	-	2013 by ref.	Minimum
Missouri	-	-	1999	-	-
Montana	2012 IBC and IFC	No	2010	Yes	-
Nebraska	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	2015 IBC & 2012 IFC, both amended	Yes, amendments to Ch 9 req. removing sprinklers from certain residential occupancies	2013	Yes	Min/Max
North Dakota	2015 IBC & IFC, both amended	Yes, state law prohibits req. of NFPA 13D single-family residential sprinklers	2013	No	Minimum
Ohio*	2009 IBC & IFC, both amended	Yes, A-3 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 lr.state.sc.us/pol/bcc	2013	Yes	Minimum
South Dakota	2015 IBC & IFC	Yes, threshold for sprinkler protection multi-family dwellings at six or more units	2013	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	Yes, see firemarshal.utah.gov	2013	-	Minimum
Vermont	2015 IBC, NFPA 1 & NFPA 101 - all amended	Yes, firesafety.vermont.gov	2013	No	Minimum
Virginia	2015 IBC & IFC - both amended	http://dhcd.virginia.gov/IMAGES/sbc/2015%20vcc%20state%20publication%2008292018.pdf	2013	No	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. Different sprinkler thresholds protection and alt. for smaller apt bldgs & townhouses, Comm 6.2.09 (5) Wis. Sec Code	2007	Yes	Minimum
Wyoming	2015 IBC & IFC	No	2013	Yes	Minimum

*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. Abbreviations: BOCA/National-Building Official and Code Administrators International; IBC-Interna-

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/aprt			
All Encompassing	RCA	Yes, 2018 IBC/IFC; NFPA 13-series – undecided if 2016 or 2019 ed.	Yes, '11	-	No	No	No	Yes	No	State Only
Limited	IP	No	No	-	Yes	-	-	Yes	Yes	State Only
Limited	IP	No	No	No	-	-	-	No	-	State License Only
Limited	RCA	No	Yes, '11	-	No	No	No	No	No	All
All Encompassing	RCA	Yes, 2012 NFPA 101	Yes, '02	-	No	Yes	Yes	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	-	Yes	Yes	All
Limited	RCA	Yes	Yes, '14	-	Yes	Yes	Yes	Yes	Yes	State Only
All Encompassing	RCA	No	Yes	-	Yes	No	No	Yes	No	State Only
Limited	RCA	Yes, 2012 IBC, IRC, IMC, IFGC	No	No	No	Yes	Yes	Yes	Yes	All
Limited	-	No	Yes, '08	OH Fire Code	Yes	Yes	Yes	-	Yes	State Only
Limited	RCA	No	Yes, '02	-	-	-	-	-	No	All
All Encompassing	IP	Yes, 2009 IRC 7/1/11	Yes, '08	-	No	No	No	Yes	Yes	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	Yes, see llr.state.sc.us/pol/bcc	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	Yes, 2018 IBC & IFC	Yes, '14	No	Yes	Yes	Yes	Yes	No	State Only
All Encompassing	RCA	Yes, 2018	Yes, '14	No	-	-	-	Yes	No	All
All Encompassing	-	No	Fire Prev. Code	No	No	No	No	No	No	State Only and where there is no local fire official
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	-	-	-	-	Eng., arch., or sp. contr.	n/a	
All Encompassing	RCA	No	Yes, '16	-	No	No	No	No	State Only	

tional 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.

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

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

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	-	-	-	-	Y	Y	Y	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	NICET II	NICET II	NICET II
D.C.	N	Y	Y	Y	Y	-	-	N	Y	-
Florida*	Y	Y	Y	N	Y	Y	Y	Y*	-	-
Georgia	N	Y	Y	N	Y	Y	Y	N	N	Y
Hawaii*	N	N	Y	Y	Y	-	-	Y	Y	N
Idaho	N	Y	Y	Y	N	N	N	N	Y	N
Illinois	N	N	Y	N	N	N	N	Y	Y	Y
Indiana*	N	N	N	N	Y	-	-	Y	Y	Y
Iowa*	N	N	Y	Y	Y	Y	Y	Y	Y	Y
Kansas	Y	Y	Y	N	Y	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	-	Y	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	N
Mississippi*	N	N	Y	N	Y	N	N	Y	Y	N
Missouri	N	N	N	N	N	N	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	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	N	Y	Y	N	Y	Y	N
North Dakota	N	N	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	1 of the 3
Tennessee	N	Y	Y	N	Y	-	-	N	Y	N
Texas*	Y	Y	Y	N	Y	-	-	Y	Y	-
Utah	N	N	Y	N	N	Y	Y	N	N	N
Vermont	-	Y	Cert Only	Cert Only	Cert Only	Cert Only	Cert Only	Y	Y	-
Virginia	Y	Y	Y	Y	Y	Y	Y	Determined	Locally	Det. Locally
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	N	Y	N

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
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	208-334-4378
Illinois	217-558-0328
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	801-296-2390
Vermont	802-479-7566
Virginia	804-371-7161
Washington*	360-596-3913
West Virginia	304-558-2191
Wisconsin*	608-266-0251
Wyoming	307-777-7288

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	-	-	-
Alaska	-	Y	-	-	Y
Arizona*	-	Y	-	-	Y
Arkansas*	-	N	N	-	Y
California*	N	-	N	Y	Y
Colorado	-	-	-	No Req	N
Connecticut*	-	N	N	-	Y
Delaware	N	Y	N	N	Y
D.C.	-	-	Minimum	-	N
Florida	Y	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	-	Only as req by NFPA 13
Indiana*	-	-	-	-	Yes, DOL appr program
Iowa*	Y	Y	Y	-	Yes
Kansas	-	y	-	-	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	No Req	No Req	No Req	N
Mississippi*	N	N	N	N	N
Missouri	No Req	No Req	No Req	No Req	N
Montana	-	-	-	No Req	Y
Nebraska	-	-	Y	Y	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	-	-	-	-	-
North Dakota	No Req	No Req	No Req	No Req	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	-	State Fire	Marshal	Certificate	Y
Vermont	N	N	N	Y, state cert.	Yes, not all systems
Virginia*	N/A	N/A	N/A	N/A	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.