WASHINGTON STATE BUILDING CODE COUNCIL APPLICATION FOR REVIEW OF A PROPOSED STATEWIDE AMENDMENT TO THE WASHINGTON STATE BUILDING CODE
2012 Code Adoption Cycle

Log # _____
(office use only)

PLEASE FOLLOW INSTRUCTIONS ON PAGE FIVE

1. State Building Code to be Amended:

[ ] International Building Code
[ ] International Residential Code
[ ] ICC ANSI A117.1 Accessibility Code
[X] International Fire Code
[ ] Uniform Plumbing Code
[ ] State Energy Code
[ ] International Mechanical Code
[ ] International Fuel Gas Code
[ ] NFPA 54 National Fuel Gas Code
[ ] NFPA 58 Liquefied Petroleum Gas Code

Section ___WAC 51-54-007 Page _____1_____

2. Applicant Name (Specific local government, organization or individual):
____Ken Williams, Benton County Fire Marshal _____

3. Signed:

_____ _____ _____ _____
Proponent **Title** **Date**

4. Designated Contact Person:
__Ken Williams_____ __Benton County Fire Marshal _____
Name **Title**
Address: _____5600 W. Canal Drive, Suite C, Box 105-A, Kennewick, WA. 99336_
_____
Office Phone: (509) 735-3500_____**Cell:**(____)_____**Fax:** (509)__736-2732
E-Mail address: ken.williams@co.benton.wa.us_____

5. Proposed Code Amendment. Use 'legislative format' including both old and new language. **See instructions on page five for specific details.** Please use a separate sheet for each separate proposal.

Code __WAC **Section** _51-54-007____ **Page** _____1_____

Amend WAC 51-54-007by adding a new sentence to the second paragraph.

WAC 51-54-007 Exceptions.
The exceptions and amendments to the International Fire Code contained in the provisions of chapter 19.27 RCW shall apply in case of conflict with any of the provisions of these rules.

Codes referenced which are not adopted through RCW 19.27.031 or chapter 19.27A RCW shall not apply unless specifically adopted by the authority having jurisdiction. **Local jurisdictions, in lieu of purchasing the documents referenced within the International Fire Code and Chapter 47, are authorized to require written affirmation the referenced document is complied with.** The 2009 International Wildland Urban Interface Code is included in this Code as Section 4800 with amendments found in Appendix Chapter K.

The provisions of this code do not apply to temporary growing structures used solely for the commercial production of horticultural plants including ornamental plants, flowers, vegetables, and fruits. "Temporary growing structure" means a structure that has the sides and roof covered with polyethylene, polyvinyl, or similar flexible synthetic material and is used to provide plants with either frost protection or increased heat retention. A temporary growing structure is not considered a building for purposes of this code.

The provisions of this code do not apply to the construction, alteration, or repair of temporary worker housing except as provided by rule adopted under chapter 70.114A RCW or chapter 37, Laws of 1998 (2SSB 6168). "Temporary worker housing" means a place, area, or piece of land where sleeping places or housing sites are provided by an employer for his or her employees or by another person, including a temporary worker housing operator, who is providing such accommodations for employees, for temporary, seasonal occupancy, and includes "labor camps" under RCW 70.54.110.

The manufacture, storage, handling, sale and use of fireworks shall be governed by chapter 70.77 RCW and by chapter 212-17 WAC and local ordinances consistent with chapter 212-17 WAC.

Are additional pages attached? [Yes] No

Please note number of additional pages: 20 total

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Supporting Data for Statewide Amendment Proposals. This information is required for all statewide amendment proposals. **Attach supporting documentation, as necessary; incomplete proposals will not be accepted.**

The SBCC requires supporting data on any amendment proposal to show:

1. **That it meets basic criteria – See Part I to specify how this proposal meets the criteria for code amendment.**
2. **The intended effect—See Part II to describe the purpose of the proposed amendment, including the benefits and the problems addressed.**
3. **The potential impacts or benefits to business—See Part III/Types of Construction, to explain how methods in construction businesses, industries and services would be affected.**
4. **The potential impact on enforcement procedures, See Part III/Types of Services Required, to provide some analysis of the impacts on code enforcement in local jurisdictions.**
5. **Economic costs and benefits – Use the Table in Part IV of this form to estimate the costs and benefits of the proposal on construction practices, users and/or the public, the enforcement community, and operation and maintenance.**

Part I Background information on amendment.

Code References: __*WAC 51-54-007*_ Title: *WAC 51-54-007 Exceptions.*
Related codes: *Yes* (Does this amendment change other related codes?) *No*
Proponent: Ken Williams_____ Phone: _509-735-3500__ Date: __2-27-12_____

NOTE: State-wide and emergency state-wide amendments to the state building code must be based on one of the following criteria; please indicate the pertinent rationale for the proposed amendment by selecting from the list below:

(1) The amendment is needed to address a critical life/safety need.
(2) The amendment is needed to address a specific state policy or statute.
(3) The amendment is needed for consistency with state or federal regulations.
(4) The amendment is needed to address a unique character of the state.
(5) The amendment corrects errors and omissions.

Part II Amendment Benefit:

PROBLEM(S) ADDRESSED (Describe the intended effect of the proposed code amendment): *RCW 19.27.031(3), as currently worded, adopts (by reference) the 208 codes stated within Chapter 47, and must be enforced. To enforce these 208 codes requires their purchase, which places a needless significant financial burden on local jurisdictions. See pages 10-20 inclusive.*

PRIMARY REASON FOR AMENDMENT: (Describe how the amendment meets one of the criteria listed above)
TYPE OF BENEFITS PROJECTED: *Allows local jurisdictions to ensure compliance to RCW 19.27.031(3) by either having the referenced codes within their offices or by requiring written documentation that a referenced code(s) has been complied with. International Fire Code Section 104.7.2 Technical Assistance provides the avenue for requiring the written documentation, and, in so doing, provides considerable savings in not having to purchased nonapplicable documents, or seldom-used ones. The proposed wording allows each jurisdiction to determine what is acceptable to them. It does not require all of us to have the same acceptance procedures.*

Pages 10 to 20, inclusive, illustrates the individual cost of each code/standard, the number of times each is referenced by the IFC, and the total cost ($ 29,682.65) (pg. 20) to purchase all the documents. It is extremely doubtful that any jurisdiction, including the State, has purchased all the codes. It is not known, nor was a poll conducted to determine how the State's various jurisdictions meet the financial obligation of RCW 19.27.031(3). But, I believe, some (if not most) simply purchase just the NFPA codes/standards

through one of the following three NFPA's options, and do not purchase the remaining documents referenced within Chapter 47.

1. ***"Subscription NFCSS All Access assures complete, confident compliance through online access to every NFPA® code and every handbook!"*** *Online codes are the only available method in which out of date editions can be access. But only during the subscription period. If not renewed, AHJs will not have access to earlier editions.*

	Non NFPA Member	NFPA Member
One Year	$ 1,795.00	$ 1,615.50
Two Year	$ 3,231.00	$ 2,907.90
Three Year	$ 4,846.00	$ 4,361.85

2. ***"National Fire Codes® Subscription Service Loose leaf Edition. Provides access to current codes in 18 binders including a Master Index, and automatic updates are received twice a year."*** *There is no access to previous editions.*

	Non NFPA Member	NFPA Member
1 year	$ 1,075.00	$ 967.50

3. ***"Softbound-16 Volumes: Major documents in the National Fire Codes have changed"****. Provides up-to-date codes for only the purchased year, and updates are not provided." There is no access to previous editions.*

	Non NFPA Member	NFPA Member
Current Year	$1,459.50	$1,313.55

There are eighty NFPA codes referenced in Chapter 47(See pages 15-19). Of the three above methods, only subscribing to and renewing NFPA's online option will ensure access to the older editions stated in Chapter 47.

Choices two and three contain only the current NFPA editions. Of the eighty NFPA codes, only nine of Chapter 47's codes are within the loose leaf or softbound versions (See highlighted cells on pages 16, 17, 18 & 19). This means a jurisdiction buying either the loose leaf or soft back option would only have access to nine out of the eighty NFPA publications (the remaining NFPA code editions are not the editions referenced in chapter 47). To enforce the other 71 NFPA publications requires local jurisdictions to purchase each code. The cost of which would be an additional $2,796.45 (members) $3,106.00 (nonmembers) on top of the loose leaf or softbound options (See NFPA subtotal on page 19). Of course, jurisdictions could pass ordinances adopting the newest editions. But that might be in conflict with RCW 19.27.031(3) which identifies a specific edition.

A fourth method to obtain Chapter 47's 80 referenced NFPA codes is to purchase only those referenced codes for $3,118.40 (members) $3,456.65 (nonmembers) (See NFPA subtotal on page 19). From my viewpoint, this is not a practical option. Though others may submit more reasons why this is impractical, only two will be addressed here. The impracticality is due to many of the codes refer to are testing standards such as NFPA 260 ("Testing ignition of upholstery with cigarettes") and 265 ("Evaluating growth of a room fire involving textiles on walls"), which simply discusses how the tests are to be setup and operated. AHJs do not set up a test mechanism to meet the standard, and we don't then conduct the test. Most jurisdictions simply require the items meet the applicable standard. Which makes it impractical to buy these types of standards. These two standards are invaluable to the public's safety. But, there is not a need for jurisdictions to purchase them.

A more costly example is the UL Standards. The cheapest is $402.00 and the most expensive is $798.00. The $798.00 Standard (UL 30) covers the construction of five-gallon flammable/combustible safety cans

and is referenced only three times within the International Fire Code. A costlier example is ASME's Boiler and Pressure Vessel codes for $5,961.00 (pg. 11 # 28). From a day-to-day point, there is no reason why this standard is needed.

UL Standard 2335 illustrates the second impractical reason (pg. 20 # 206) . The standard's scope states, ***"This standard includes test methods and requirements to investigate the fire growth performance of pallets in idle storage, and when storing commodities in palletized and rack storage arrangements, by sprinkler systems installed in accordance with the Standard for the Installation of Sprinkler Systems, NFPA 13."*** *Unless the Code Official wants to personally, conduct a test to determine if the installed sprinkler system provides the appropriate protection, this obscured $402.00 standard, which is referenced but only one time, has no practical, everyday application. To purchase all 27 UL referenced standards is $13,657.00 (See UL subtotal on page 20).*

Adopting the proposed amendment to WAC 51-54-007 will not lessen the protection the International Fire Code provides, nor will Washington's businesses/industries be negatively impacted.

But it does permit code officials to ensure compliance to recognized standards/codes without having to purchase a costly standard that was referred to but one time and will never be used. Additionally, local jurisdictions are not faced with the liability dilemma of choosing to enforce a newer edition instead of the specifically identified one, or going ahead and purchasing an out of date standard that is referred to but once.

Part III Amendment Impacts or Benefits:
The adoption of this amendment does not affect any of the listed types of construction.

TYPES OF CONSTRUCTION: ☐ New Construction ☐ Alteration/Tenant Improvement/Repair
☐ Residential-Single Family ☐ Residential-Multi Family ☐ Commercial ☐ Industrial

List businesses/industries affected by amendment:
The adoption of this amendment does not impact any of the below businesses/industries.
Manufacturers:
Specific Construction Contractors & Trades: _____
Construction Supply Industry: _____
Specialty Trades: _____
Types of Buildings: _____
Fire Protection Industry: _____
TYPES OF SERVICES REQUIRED:
The adoption of this amendment will not required local jurisdictions to change their procedure, nor will it have an indirect cost to businesses.
☒ Reporting. Brief Description *Reporting procedures to city, county, state or other agencies does not change.*
☒ Record Keeping. Brief Description *There are no mandated changes in record keeping methods.*
☐ Other. Brief Description _____
☐ Indirect Cost to Industry. Indicate whether there are multiple sources to obtain the equipment, material or service required by this proposal. If not, provide a justification of the benefit versus small business impact.

Part IV Amendment Costs and Benefits *There are no direct/indirect costs or benefits to businesses, or individual occupancy classification.*

Building Type	Construction[1]			Enforcement[2]			Operations & Maintenance[3]		
	Costs	% Impact[4]	Benefits[5]	Costs	% Impact[4]	Benefits[5]	Costs	% Impact[4]	Benefits[5]
Residential									
Single family									
Multi-family									
Commercial/Retail									
Industrial									
Institutional									

[1] $ / square foot of floor area or other cost. Attach data. Construction costs are costs prior to occupancy, and include both design and direct construction costs that impact the total cost of the construction to the owner/consumer.
[2] Cost per project plan. Attach data. Enforcement costs include governmental review of plans, field inspection, and mediated litigation required for enforcement.
[3] Cost to building owner/tenants over the life of the project.
[4] Cost differential over a specific size project or range of projects as determined by the proponent. Provide sufficient cost and benefit detail to clarify the impact to the Council. All data should be created and referenced to third party reputable sources for verification.
[5] Note sectors with measurable benefit from Part II, including benefits to a) the user, b) the public, c) the industry, and/or d) the economy; use e) for all of the above.

Pages 9-19 inclusive Contains the Codes/Standards of IFC

Legend

Number of Code: A numerical guide created to quickly find a particular referenced code.

Acronym: Identifying acronym for referenced code/standard

Times Referenced: The number of times a code/standard is referred to within the International Fire Code

Cost: The cost to buy the code/standard, and the subtotal to buy all of the particular organization's documents.

NFPA codes are from Code numbers 100 through 179. Two new columns were added. The first indicates the latest NFPA editions that are within the soft bound and the loose-leaf versions. The second are the editions stated in Chapter 47.

Number of Code	Acronym	Standard # & Title	Times Referenced	Cost
American Association of State Highway and Transportation Officials				
1	AASHTO	HB-17-2002 Specification for Bridges	1	$ 320.00
Architectural Fabric Structures Institute				
2	AFSI	ASI-77 Design & Standard Manual	1	?
American Petroleum Institute				
3	API	Spec 12P Specification for Fiberglass Reinforced Plastic Tanks	1	$ 94.00
4	API	RP 651 Cathodic Protection of Aboveground Petroleum Storage Tanks	2	$ 102.00
5	API	Std 653 Tank Inspection, Repair, alteration and Reconstruction	1	$ 205.00
6	API	RP 752 Management of Hazards Associated with Location of Process Plant Buildings, CMA Managers Guide	1	$ 136.00
7	API	RP 1604 Closure of Underground Petroleum Storage Tanks	1	$ 73.00
8	API	RP 1615 Installation of Underground-petroleum Storage Systems	2	$ 199.00
9	API	STD 2000 Venting atmosphere and Low-pressure Storage Tanks: Nonrefrigerated and Refrigerated	1	$ 143.00
10	API	RP 2001 Fire Protection in Refineries	1	$ 96.00
11	API	RP 2003 Protection Against Ignitions Arising out of Static, Lightning and Stray Currents	1	$ 121.00
12	API	PUBL 2009 Safe Welding and Cutting Practices in Refineries, Gas Plants and Petrol chemical Plants	1	$ 125.00
13	API	STD 2015 Safe Entry and Clearing of Petroleum Storage Tanks	2	$ 130.00
14	API	RP 2023 Guide for Safe Storage and Handling of Heated Petroleum-derived Asphalt Products and Crude-oil Residue	2	$ 106.00
15	API	PUBL 2028 Flame Arrestors in Piping Systems	1	$ 125.00

16	API	PUBL 2201 Procedures for Welding or Hot Tapping on Equipment in Service	1	?
17	API	RP 2350 Overfill Protection for Storage Tanks in Petroleum Facilities	3	$ 84.00
			API SUBTOTAL	$ 1,739.00

The American Society of Mechanical Engineers				
18	ASME	A 13.1 Scheme for the Identification of Piping Systems	5	$ 37.00
19	ASME	A17.1/CSA B44 Safety Code for Elevators and Escalators	4	$ 315.00
20	ASME	A 17.3 Safety Code for Existing Elevators and Escalators	1	$ 137.00
21	ASME	A 18.1 Safety Standard for Platform Lifts and Stairway Chair Lifts	1	$ 95.00
22	ASME	B 16.18 Cast Copper Alloy Solder Joint Pressure Fittings	1	$ 63.00
23	ASME	B 16.22 Wrought Copper and Copper Alloy Solder-joint Pressure Fittings	1	$ 42.00
24	ASME	B 31.1 Power Piping	1	$ 245.00
25	ASME	B 31.3 Process Piping	3	$ 380.00
26	ASME	B 31.4 Pipeline Transportation Systems for Liquid Hydrocarbons and Other Liquids	1	$ 163.00
27	ASME	B 31.9 Building Services Piping	3	$ 163.00
28	ASME	BPVC ASME Boiler & Pressure Vessel Code, 2001 Edition of (Sections I $455, II $2,622, IV $460, V $505 & VIII $1,919)	10	$ 5,961.00
			ASME SUBTOTAL	$ 7,601.00

ASTM International				
29	ASTM	B 42-02e01 Specification for Seamless Copper Pipe, Standard Sizes	1	$ 40.00
30	ASTM	B 43-98 Specification for Seamless Red Brass Pipe, Standard Sizes	1	$ 40.00
31	ASTM	B 68-02 Specification for Seamless Copper Tube, Bright Annealed	1	$ 40.00
32	ASTM	B 88-03 Specification for Seamless Copper Water Tube	1	$ 40.00
33	ASTM	B 251-02e01Specification for General Requirements for Wrought Seamless Copper and Copper-alloy Tube	1	$ 40.00
34	ASTM	B 280-03 Specification for Seamless Copper Tube for Air Conditioning and Refrigeration Field Service	1	$ 40.00
35	ASTM	D 56-05 Test Method for Flash Point by Tag Closed Tester	1	$ 46.00
36	ASTM	D 86-07a Test Method for Distillation of Petroleum Products at Atmospheric Pressure	1	$ 57.00

37	ASTM	D 92-05a Test Method for Flash& Fire Points by Cleveland Open	3	$ 40.00
38	ASTM	D 93-07 Test Method for Flash Point by Pensky-Martens Closed Up Tester	1	$ 46.00
39	ASTM	D 323-06 Test Method for Vapor Pressure of Petroleum Products (Reid Method)	1	$ 40.00
40	ASTM	D 3278-(2004)e01 Test Method for Methods for Flash Point of Liquids by Small Scale Closed-Conditional Use Permit Application reviewed for fire applicability Apparatus	1	$ 40.00
41	ASTM	E 84-07 Test Method for Surface Burning Characteristics of Building Materials	10	$ 57.00
42	ASTM	E 681-04 Test Method for Concentration Limits of Flammability of Chemicals (Vapors & Gases)	1	$ 46.00
43	ASTM	E 1354-04a Test Method for Standard Test Method for Heat and Visible Smoke Release Rates for Materials & Products Using an Oxygen Consumption Calorimeter	4	$ 46.00
44	ASTM	E 1529-06 Test Method for Determining Effects of Large Hydrocarbon Pool Fires on Structural Members and Assemblies	1	$ 57.00
45	ASTM	E 1537-07 Test Method for Testing of Upholstered Furniture	4	$ 57.00
46	ASTM	E 1590-07 Test Method for Fire Testing of Mattresses	4	$ 57.00
47	ASTM	E 1966-01 Test Method for Fire-resistant Joint Systems	1	$ 46.00
48	ASTM	E 2072-04 Standard Specification for Pholuminescent (Phosphorescent) Safety Markings	1	$ 35.00
49	ASTM	E 2404-07a Standard Practice for Specimen Preparation and Mounting of Textile, Paper or Vinyl Wall or Ceiling Coverings to Assess Surface Burning Characteristics	1	$ 35.00
50	ASTM	E 2573-07 Standard Practice for Specimen Preparation and Mounting of Site-fabricated Stretch Systems to Assess Surface Burning Characteristics	1	$ 35.00
51	ASTM	F 200-05 Standard Practice for Automated Vehicular Construction	3	$ 35.00
		ASTM SUBTOTAL		$ 1,015.00

Builders Hardware Manufacturers' Association				
52	BHMA	A 156.10-05 American National Standard for Power-operated Pedestrian Doors	1	$ 40.00

53	BHMA	A 156.19-02 American National Standard for Power Assist and Low-energy Power-operated Doors	1	$ 36.00
			BHMA SUBTOTAL	$ 76.00

State of California Department of Consumer Affairs				
54	CA	TECH-BUL 129-1992 Flammability Test Procedure for Mattresses for Use in Public Buildings	4	Online
55	CA	TECH-BUL 133-1991 Flammability Test Procedure for Seating Furniture for Us in Public Occupancies	3	Online

Compressed Gas Association				
56	CGA	C-7-2004 Guide to the Preparation of Precautionary Labeling and Marking of Compressed Gas Containers	2	$ 498.00
57	CGA	G-13-2006 Storage & Handling of Silane and Silane Mixtures	3	$ 137.00
58	CGA	P-1-20~~00~~ (08)Safe Handling of Compressed Gases in Containers	1	$ 90.00
59	CGA	ANSI/P-18-2006 Standard for Bulk Inert Gas Systems at Consumer Sites	1	$ 67.00
60	CGA	P-20-2003 Standard for Classification of Toxic Mixtures	1	$ 53.00
61	CGA	P-23-20~~03~~ (08) Standard for Categorizing Gas Mixture Containing Flammable and Nonflammable Components	1	$ 39.00
62	CGA	S-1.1-2005 Relief Device Standards-Part 1-Cylinders for Compressed Gases	3	$ 109.00
63	CGA	S-1.2-20~~05~~ (09) Pressure Relief Device Standards-Part 2-Cargo & Portable Tanks for Compressed Gases	3	$ 171.00
64	CGA	S-1.3-20~~05~~ Pressure Relief Device Standards-Part3-Stationary Storage Containers for Compressed Gases	4	$ 109.00
65	CGA	V-1-2005 Standard for Gas Cylinder Valve Outlet & Inlet Connections	1	$ 499.00
			CGA SUBTOTAL	$ 1,772.00

Coast Guard Regulations				
66	CGR	46 CFR PART 30 Shipping	1	Online
67	CGR	46 CFR PART 32 Shipping	1	Online
68	CGR	46 CFR PART 35 Shipping	1	Online
69	CGR	46 CFR PART 39 Shipping	1	Online

Consumer Product Safety Commission				
70	CPSC	16 CFR Part 1500.41-1984 Method for Testing Primary Irritant Substances	1	Online

71	CPSC	16 CFR Part 1500.42-1984 Test for Eye Irritants		Online
72	CPSC	16 CFR Part 1500.44-1984 Method for Testing Extremely Flammable & Blamable Solids	2	Online
73	CPSC	16 CFR Part 1500-1984 Hazardous Substances and Articles; Administration and Enforcement Regulations	2	Online
74	CPSC	16 CFR Part 1507-1984 Fireworks Devices	2	Online
US Department of Commerce				
75	DOC	16 CFR PART 1632-1999 Standard for the Flammability of Mattress and Mattress Pads	4	Online
US Department of Labor				
76	DOL	29 CFR PART 1910.1000-1974 Air Contaminants	2	Online
77	DOL	29 CFR PART 1910.1200-1999 Hazard Communications	2	Online
US Department of Transportation				
78	DOTn	33 CFR PART 154-1998 Facilities Transferring Oil or Hazardous Material in Bulk	1	Online
79	DOTn	33 CFR PART 155-1998 Oil or Hazardous Material Pollution Prevention Regulations for Vessels	1	Online
80	DOTn	33 CFR PART 156-1998 Oil & Hazardous Material Transfer Operations	1	Online
81	DOTn	49 CFR PARTS 100-185-2005 Hazardous Materials Regulations	9	Online
82	DOTn	49 CFR PART 172-2005 Hazardous Materials Tables, Special Provisions, Hazardous Materials Communications, Emergency Response Information & Training Requirements	1	Online
83	DOTn	49 CFR PART 173-2005 Shippers-General Requirements for Shipments & Packagings	1	Online
84	DOTn	49 CFR PART 173.137-2005 Shippers-General Requirements for Shipments & Packagings: Class 8-Assignment of Packing Group	1	Online
US Department of Treasury				
85	DOTy	27 CFR PART 55-1998 Commerce in Explosives,	2	Online

European Committee for Standardization				
86	EN	EUROPEAN STANDARD EN 1081: 1998 Resilient Floor Coverings-Determination of the Electrical Resistance	1	$ 129.00

Environmental Protection Agency				
87	EPA	40 CFR PART 355-2008 Emergency Planning and Notification	1	Online

Federal Communications Commission				
88	FCC	47 CFR PART 90.219-2007 Private Land Mobile Radio Services-Use of Signal Boosters	1	Online

International Code Council, Inc				
89	ICC	ICC/ANSI A117.1-03 Accessible & Usable Buildings & Facilities	6	$ 36.75
90	ICC	300-07 Standard on Bleachers, Folding & Telescopic Seating & Grandstands	1	$ 20.00
91	ICC	IBC 09 International Building Code	235	$ 114.00
92	ICC	IFGC-09 International Fuel Gas Code	27	$ 70.00
93	ICC	IMC-09 International Mechanical Code	73	$ 70.00
94	ICC	IPC International Plumbing Code	5	$ 73.00
95	ICC	IPMC-09 International Property Code	1	$ 73.50
96	ICC	IRC-09 International Residential Code	2	$ 31.00
97	ICC	IWUIC-09 International Wildland-Urban Interface Code	3	$ 44.25
			ICC Subtotal	$ 532.50

International Organization for Standardization				
98	ISO	ISO 8115-86 (96 Current) Cotton Bales-Dimensions & Density	2	$ 46.00

National Electrical Manufacturer's Association				
99	NEMA	250-2003 Enclosures for Electrical Equipment (1,000 volt Maximum)	1	Online

National Fire Protection Association							
			Current NFPA Edition	Edition Required by IFC	Times Referenced	Cost	
						NFPA Member	Non NFPA Member
100	NFPA	10-07 Portable Fire Extinguishers	2010	2007	9	$ 38.70	$ 43.00
101	NFPA	11-05 Low-, Medium-& High Expansion Foam	2010	2005	2	$ 38.70	$ 43.00
102	NFPA	12-05 Carbon Dioxide Extinguishing Systems	2009	2005	3	$ 38.70	$ 43.00

			Current NFPA Edition	Edition Required by IFC	Times Referenced	Cost	
						Member	Non Member
104	NFPA	13-07 Installation of Sprinkler Systems	2010	2007	24	$ 73.80	$ 82.00
105	NFPA	13D-07 Installation of Sprinkler Systems in One-& Two-family Dwellings and Manufactured Homes	2010	2007	2	$ 35.10	$ 39.00
106	NFPA	13R-07 Install of Sprinkler Systems in Residential Occupancies up to and Including Four Stories in Height	2010	2007	4	$ 35.10	$ 39.00
107	NFPA	14-07 Installation of Standpipe & Hose Systems	2010	2007	5	$ 35.10	$ 39.00
108	NFPA	15-07 Water Spray Fixed Systems for Fire Protection	2112	2007	1	$ 38.70	$ 43.00
109	NFPA	16-07 Installation of Foam-water Sprinkler and Foam-water Spray Systems	2011	2002	2	$ 35.10	$ 39.00
110	NFPA	17-02 Dry Chemical Extinguishing Systems	2009	2002	3	$ 35.10	$ 39.00
111	NFPA	17A-02 Wet Chemical Extinguishing Systems	2009	2002	3	$ 35.10	$ 39.00
112	NFPA	20-07 Installation of Stationary Pumps for Fire Protection	2010	2007	3	$ 45.45	$ 50.50
113	NFPA	22-03 Water Tanks for Private Fire Protection	2008	2003	1	$ 38.70	$ 43.00
114	NFPA	24-07 Installation of Private Fire Service Mains and Their Appurtenances	2010	2007	2	$ 35.10	$ 39.00
115	NFPA	25-08 Inspection, Testing & Maintenance of Water-based Fire Protection Systems	2011	2008	6	$ 45.45	$ 50.50
116	NFPA	30-08 Flammable & Combustible Liquids Code	2012	2008	32	$ 45.45	$ 50.50
117	NFPA	30A-08 Code for Motor Fuel-dispensing Facilities & Repair Garages	2012	2008	5	$ 35.10	$ 39.00
118	NFPA	30B Manufacture & Storage of Aerosol Products	2011	2007	15	$ 38.70	$ 43.00
119	NFPA	31-06 Installation of Oil-burning Equipment	2011	2006	3	$ 38.70	$ 43.00
120	NFPA	32-07 Dry Cleaning Plants	2011	2007	2	$ 30.15	$ 33.50
121	NFPA	33-07 Spray Application Using Flammable or Combustible Materials	2011	2007	1	$ 35.10	$ 39.00
122	NFPA	34-07 Dipping and Coating Processes Using Flammable or Combustible Liquids	2011	2007	2	$ 35.10	$ 39.00
123	NFPA	35-Manutacture of Organic Coatings	2011	2007	2	$ 35.10	$ 39.00
124	NFPA	40-07 Storage & Handling of Cellulose Nitrate Film	2011	2007	1	$ 30.15	$ 33.50
125	NFPA	51-07 Design & Installation of Oxygen-fuel Gas Systems for Welding, Cutting & Allied Processes	2007	2007	3	$ 30.15	$ 33.50
126	NFPA	51A-06 Acetylene Cylinder Charging Plants	2012	2007	1	$ 30.15	$ 33.50
127	NFPA	52-06 Vehicular Fuel System Code	2010	2006	1	$ 45.45	$ 50.50

			Current NFPA Edition	Edition Required by IFC	Times Referenced	Cost	
						Members	Nonmember
128	NFPA	55-05 Standard for the Storage, Use and Handling of Compressed Gases and Cryogenic Fluids in Portable and Stationery Containers Cylinders and Tanks	2010	2005	4	$ 45.45	$ 50.50
129	NFPA	58-08 Liquefied Petroleum Gas Code	2011	2008	17	$ 45.50	$ 50.50
130	NFPA	59A-06 Production, Storage & Handling of Liquefied Natural Gas (LNG)	2012	2006	2	$ 38.70	$ 43.00
131	NFPA	61-08 Prevention of Fires & Dust Explosions in Agricultural & Food Products Facilities	2008	2008	1	$ 35.10	$ 39.00
132	NFPA	69-08 Explosion Prevention Systems	2008	2008	3	$ 38.70	$ 43.00
133	NFPA	70-08 National Electric Code	2011	2008	58	$ 90.00	$ 100.00
134	NFPA	72-07 National Fire Alarm Code	2010	2007	25	$ 73.80	$ 82.00
135	NFPA	80-07 Fire Doors & Other Opening Protectives	2010	2007	2	$ 38.70	$ 43.00
136	NFPA	85-07 Boiler & Combustion System Hazards Code	2011	2007	1	$ 55.35	$ 61.50
137	NFPA	86-07 Ovens & Furnaces	2011	2007	1	$ 45.45	$ 50.50
138	NFPA	92B-05 Smoke Management Systems in; Malls, Atria & Large Spaces	2009	2005	1	$ 38.70	$ 43.00
139	NFPA	Standard for Ventilation control and Fire Protection of Commercial Cooking Operations	2011	2007	1	$ 35.10	$ 39.00
140	NFPA	99-05 Health Care Facilities	2012	2005		$ 55.35	$ 61.50
141	NFPA	101-06 Life Safety Code	2012	2006	1	$ 80.55	$ 89.50
142	NFPA	105-07 Installation of Smoke Door Assemblies & Other Opening Protectives	2010	2007	1	$ 31.15	$ 33.50
143	NFPA	110-05 Emergency & Standby Power Systems	2010	2005	5	$ 35.10	$ 39.00
144	NFPA	111-05 Stored Electrical Energy Emergency & Standby Power Systems	2010	2005	3	$ 35.10	$ 39.00
145	NFPA	120-04 Coal Preparation Plants	2010	2004	1	$ 38.70	$ 43.00
146	NFPA	160-06 Flame Effects Before an Audience	2012	2006	1	$ 35.10	$ 39.00
147	NFPA	170-06 Standard for Fire Safety & Emergency Symbols	2010	2006	1	$ 38.70	$ 43.00
148	NFPA	211-06 Chimneys, Fireplaces, Vents & Solid Fuel-burning Appliances	2009	2004	1	$ 38.70	$ 43.00
149	NFPA	241-04 Safeguarding Construction, Alteration & Demolition Operations	2011	2006	1	$ 35.10	$ 39.00
150	NFPA	253-06 Standard Test for Critical Radiant Flux of Floor Covering Systems Using a Radiant Heat Energy Source	2009	2003	1	$ 30.15	$ 33.50
151	NFPA	260-03 Methods of Tests & Classification System for Cigarette Ignition Resistance of Components of Upholstered Furniture	2009	2003	4	$ 30.15	$ 33.50

			Current NFPA Edition	Edition Required by IFC	Times Referenced	Cost	
						Member	Nonmember
152	NFPA	261-03 Method of Test for Determining Resistance of Mock-up Upholstered Furniture Material Assemblies to Ignition by Smoldering Cigarettes	2011	2007	3	$ 30.15	$ 33.50
153	NFPA	265-07 Method of Fire Tests for Evaluating Room Fire Growth Contribution of Textile Wall Coverings in Full Height Panels and Walls	2011	2002	4	$ 35.10	$ 39.00
154	NFPA	286-06 Standard Method of Fire Tests for Evaluating Contribution of Wall & Ceiling Interior Finish to Room Fire Growth	2011	2006	4	$ 35.10	$ 39.00
155	NFPA	303-06 Fire Protection Standard for Marinas & Boatyards	2012	2007	4	$ 35.10	$ 39.00
156	NFPA	385-07 Tank Vehicles for Flammable & Combustible Liquids	2012	2007	3	$ 35.10	$ 39.00
157	NFPA	407-07 Aircraft Fuel Servicing	2011	2004	2	$ 30.15	$ 33.50
158	NFPA	409-04 Aircraft Hangars	2004	2004	4	$ 35.10	$ 39.00
159	NFPA	430-04 Storage of Liquid & Solid Oxidizers	2012	2006	1	$ 35.10	$ 39.00
160	NFPA	484-06 Combustible Metals	2002	2002	1	45.45	50.5
161	NFPA	490-02 Storage of Ammonium Nitrate	2010	2006	1	$ 38.70	$ 43.00
162	NFPA	495-06 Explosive Materials Code	2010	2006	17	$ 30.15	$ 33.50
163	NFPA	498-06 Safe Havens & Interchange Lots for Vehicles Transporting Explosives	2011	2006	1	$ 30.15	$ 33.50
164	NFPA	505-06 Powered Industrial Trucks, Including Type Designations, Areas of Use, Maintenance & Operation	2006	2006	1	33.5	30.15
165	NFPA	654-06 Prevention of Fire & Dust Explosions from the Manufacturing, Processing & Handling of Combustible Particulate Solids	2012	2007	1	$ 35.10	$ 39.00
166	NFPA	655-07 Prevention of Sulfur Fires & Explosion	2012	2007	1	$ 35.10	$ 39.00
167	NFPA	664-07 Prevention of Fires & Explosions in Wood Processing & Woodworking Facilities	2010	2004	2	$ 38.70	$ 43.00
168	NFPA	701-04 Methods of Fire Tests for Flame-propagation of Textiles & Films	2012	2006	7	$ 30.15	$ 33.50
169	NFPA	703-06 Fire Retardant Impregnated Wood & Fire Retardant Coatings for Building Materials	2012	2007	1	$ 30.15	$ 33.50
170	NFPA	704-07 Identification of the Hazards of Materials for Emergency Response	2010	2006	14	$ 35.10	$ 39.00
171	NFPA	750-06 Water Mist Fire Protection Systems	2008	2008	1	$ 38.70	$ 43.00
172	NFPA	1122-08 Model Rocketry	2010	2006	1	$ 30.15	$ 33.50

			Current NFPA Edition	Edition Required by IFC	Times Referenced	Cost	
						Member	Nonmember
173	NFPA	1123-06 Fireworks Display	2006	2006	6	$ 35.10	$ 39.00
174	NFPA	1124-06 Manufacture, Transportation, Storage & Retail Sales of Fireworks & Pyrotechnic Articles	2012	2007	6	$ 38.70	$ 43.00
175	NFPA	1125-07 Manufacture of Model Rocket & High Power Rocket Motors	2011	2006	1	$ 35.10	$ 39.00
176	NFPA	1126-06 Use of Pyrotechnics Before a Proximate Audience	2008	2008	6	$ 30.15	$ 33.50
177	NFPA	1127-08 High Power Rocketry	2012	2008	1	$ 30.15	$ 33.50
178	NFPA	1142-07 Water Supply for Suburban & Rural Fire Fighting	2012	2008	1	$ 45.45	$ 50.50
179	NFPA	2001-08 Clean Agent Fire Extinguishing Systems			2	$ 45.45	$ 50.50
					NFPA Subtotals	$3,118.40	$ 3,456.65
					Highlighted Codes	$321.95	$350.65
					Minus Highlighted Codes	$2,796.45	$3,106.00

Underwriters Laboratories, Inc				
180	UL	30-95 Metal Safety Cans	3	$ 798.00
181	UL	58-96 Steel Underground Tanks for Flammable & Combustible Liquids	1	$ 402.00
182	UL	199 E-04 Outline of Investigation for Fire Testing of Sprinklers & Water Spray Nozzles for Protection of Deep Fat Fryers	1	?
183	UL	217-06 Single & Multiple Station Smoke Alarms	1	$ 402.00
184	UL	268-06 Smoke Detectors for Fire Alarm Signaling Systems	1	$ 505.00
185	UL	300-05 Fire Testing Of Fire Extinguishing Systems for Protection of Restaurant Cooking Equipment	1	$ 402.00
186	UL	325-02 Door, Drapery, Gate, Louver & Window Operators & Systems	3	$ 798.00
187	UL	710B-04 Recirculating Systems	1	$ 505.00
188	UL	723-03 Standard for Test for Surface Burning Characteristics of Building Materials	6	$ 505.00
189	UL	793-03 Automatically Operated Roof Vents for Smoke and Heat	1	$ 402.00
190	UL	864-03 Control Units & Accessories for Fire Alarm Systems	1	$ 402.00
191	UL	900-04 Air Filter Units	1	$ 402.00
192	UL	924-06 Standards for Safety Emergency Lighting & Power Equipment	2	$ 798.00

193	UL	1275-05 Flammable Liquid Storage Cabinets	2	$ 402.00
194	UL	1313-93 Standard for Nonmetallic Safety Cans for Petroleum Products	1	$ 798.00
195	UL	1315-95 Standard for Safety for Metal Waste Paper Containers	1	$ 402.00
196	UL	1316-94 Glass Fiber Reinforced Plastic Underground Storage Tanks for Petroleum Product, Alcohols, and Alcohol-gasoline Mixtures	1	$ 402.00
197	UL	1363-07 Relocatable Power Taps	1	$ 716.00
198	UL	1975-06 Fire Tests for Foamed Plastic Used for Decorative Purpose	2	$ 798.00
199	UL	1994-04 Standard for Luminous Egress Path Marking Systems	4	$ 798.00
200	UL	2075-07 Standard for Gas & Vapor Detectors & Sensors	1	$ 505.00
201	UL	2079-04 Tests for Fire Resistance of Building Joint Systems	1	$ 402.00
202	UL	2085-97 Protected Aboveground Tanks for Flammable & Combustible Liquids	5	$ 402.00
203	UL	2200-04 Stationary Engine Generator Assemblies	1	$ 402.00
204	UL	2208-05 Solvent Distillation Units	1	$ 402.00
205	UL	2245-06 Below-grade Vaults for Flammable Liquid Storage Tanks	1	$ 505.00
206	UL	2335-01 Fire Tests of Storage Pallets	1	$ 402.00
			UL Subtotal	$ 13,657.00

United States Code				
207	USC	18 USC Part 1, Chapter 40 Importation, Manufacture, Distribution & Storage of Explosive Materials	1	Online
208	USC	21 USC Chapter 9 United States Food, Drug & Cosmetic Act	1	Online

Cost for all Referenced Codes	$ 30,215.15
Subtract Cost of ICC Codes	$ (532.50)
Net Cost of Referenced Codes to AHJs	$ 29,682.65