

PLEASE FOLLOW INSTRUCTIONS ON PAGE FIVE

1. State Building Code to be Amended:

- | | |
|--|---|
| <input type="checkbox"/> International Building Code | <input type="checkbox"/> State Energy Code |
| <input type="checkbox"/> International Existing Building Code | <input type="checkbox"/> International Mechanical Code |
| <input type="checkbox"/> ICC ANSI A117.1 Accessibility Code | <input type="checkbox"/> International Fuel Gas Code |
| <input checked="" type="checkbox"/> International Residential Code | <input type="checkbox"/> NFPA 54 National Fuel Gas Code |
| <input type="checkbox"/> International Fire Code | <input type="checkbox"/> NFPA 58 Liquefied Petroleum Gas Code |
| <input type="checkbox"/> Uniform Plumbing Code | |

Section Appendixes R and S **Page** 856 a-f

2. Applicant Name (Specific local government, organization or individual):

Washington Fire Sprinkler Coalition

3. Signed:

_____	<u>Chair</u>	<u>February 28, 2012</u>
Proponent	Title	Date

4. Designated Contact Person:

<u>Greg Rogers</u>	<u>Chair</u>
Name	Title

Address: 1974 Fircrest Drive SE
Port Orchard, WA 98366

Office **Phone:** (306) 895-6506 **Cell:** (____)_____

E-Mail address: grogers@skfr.org

5. Proposed Code Amendment. Reproduce the section to be amended. Underline all added language, strike through all deleted language. Insert any separate new sections in the appropriate place in the code in order to continue the established numbering system of the code. If more than one section is proposed for amendment or more than one page is needed for reproducing the affected section of the code, additional pages may be attached. (Please indicate number of additional pages below)

Code Washington State Building Code
Section Appendixes R and S Page 856 a-f

Amend section to read as follows:

1. Move Appendix R-DWELLING UNIT FIRE SPRINKLER SYSTEMS into the main body of the code at section P2904.
2. Move Appendix S-FIRE SPRINKLERS into the main body of the code at section R313

Are additional pages attached? Yes No

Please note number of additional pages: 99

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:

- a. That it meets basic criteria – See Part I to specify how this proposal meets the criteria for code amendment.
- b. The intended effect—See Part II to describe the purpose of the proposed amendment, including the benefits and the problems addressed.
- c. The potential impacts or benefits on business—See Part III/Types of Construction, to explain how methods in construction businesses, industries and services would be affected.
- d. 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.
- e. Economic costs and benefits – Use the Table in Part IV of this form to estimate the costs and benefits of the proposal on the construction industry, the user and/or public, the enforcement community, and operation and maintenance.

Part I ❖ Background information on amendment.

Code References: Appendixes R and S

Related codes: (Does this amendment change other related codes?)

Proponent: Greg Rogers Phone: 360-895-6506 Date: February 27, 2012

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.
- (5) The amendment corrects errors and omissions.

Part II ❖ Amendment Benefit:

PROBLEM(S) ADDRESSED (Describe the intended effect of the proposed code amendment):

Since the widespread introduction of home fire sprinklers, a significant amount of statistical data has been collected and analyzed showing their impact in reducing rates per fire of fire deaths and property damage. Residential fire sprinkler systems have a high reliability rate for protecting both property and human lives and have been accepted by the building community as an essential building design feature for commercial occupancies. Automatic fire sprinklers are also used to protect human life in all types of residential occupancies such as high-rise residential buildings, hotels and apartment buildings, and they have proven effective for preserving property and reducing fire-related death and injury.

Fires in single-family residences account for the majority of fire related injuries and fatalities to the public and emergency responders in the United States. Statistics have proven that requiring fire sprinklers in new residential occupancies will substantially reduce the number of fire related injuries and deaths in the future. Fire Sprinklers have become an affordable means of significantly improving ones chances of surviving a fire in a residence.

See Attached Report: U.S. Experience with Sprinklers (pg.5 of this document)

See Attached Report: Home Fire Sprinkler Cost Assessment (pg.77 of this document)

PRIMARY REASON FOR AMENDMENT: (Describe how the amendment meets one of the criteria listed above)

This amendment addresses item (1) above “critical life safety need”.

When a fire ignites in a residential occupancy, the time to escape may be only a very few minutes before the conditions inside a home become untenable and life threatening. Residential fire sprinklers are life-saving systems that respond quickly and effectively to the presence of a nearby fire. When sprinklers are present, they save lives. If a fire ignites in a home the risk of dying decreases by about 80 percent when sprinklers are present. People in homes with sprinklers are protected against significant property loss sprinklers reduce the average property loss by 71 percent per fire. Model codes now require the installation of home fire sprinklers in new one- and two-family homes. These requirements offer the highest level of safety to protect the people of our community.

See Attached Report: The case for Home Fire Sprinklers (pg.99 of this document)

See Attached Report: Residential Sprinkler Systems: Consideration of Policy and Litigation Strategies for Reducing Residential Fire Injuries (pg. 101 of this document)

TYPE OF BENEFITS PROJECTED:

Sprinklers do more than save lives, the findings of a ground breaking study made possible through a collaborative effort of FM Global, and the Home Fire Sprinkler Coalition released in May of 2010 found that Fire Sprinklers:

- Reduce greenhouse gases by 98%
- Reduce fire damage by up to 97%
- Reduce water usage to fight a home fire by upwards of 90%
- Reduce the amount of water pollution released into the environment
- Reduce debris to landfills

There is every reason to believe that Washington communities will experience these and additional benefits from the code adoption in this proposal.

Part III ❖ Amendment Impacts or Benefits:

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

List businesses/industries affected by amendment

Fire Protection Industry:	State and Local firefighting forces/first responders.
Specific Construction Contractors & Trades:	Home builders who build in the State of Washington
Construction Supply Industry:	Suppliers of sprinkler and plumbing piping and fittings.
Specialty Trades:	Plumbers and sprinkler installers
Types of Buildings:	Townhomes, one family and two family dwellings

Manufacturers:

Housing

Types of Services Required:

List any reporting, record keeping or other requirements. Indicate if equipment, material or services required by this proposal are available from multiple sources.

None _____

Part IV ❖ Amendment Costs and Benefits

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	\$1.61 sq.ft Avg.	1-3%	0-10% Insurance Savings 7% avg.	\$25-100.00	N/A	N/A	\$0.00	\$0.00	\$0.00
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 other action required for enforcement.

³ Cost/benefits 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 Include measurable benefit to the user and/or public from Part II.