**15-056**

**1. State Building Code to be Amended:**

International Building Code  State Energy Code

ICC ANSI A117.1 Accessibility Code  International Mechanical Code

International Existing Building Code  International Fuel Gas Code

International Residential Code  NFPA 54 National Fuel Gas Code

International Fire Code  NFPA 58 Liquefied Petroleum Gas Code

Uniform Plumbing Code  Wildland Urban Interface Code

**Section(s): 1105.8 and 1105.9**

(e.g.: Section: R403.2)

**Title: Group I-2 automatic sprinkler systems and automatic fire alarm systems**

(e.g: Footings for wood foundations)

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

**Proponent: Shawn Shepherd**

**Title: Deputy Fire Marshal**

**Date: 2/27/2015**

**3. Designated Contact Person:**

**Name: Shawn Shepherd**

**Title: Deputy Fire Marshal**

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**4. Proposed Code Amendment**. Reproduce the section to be amended by underlining all added language, striking through all deleted language. Insert 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. (Examples on the SBCC [website](https://fortress.wa.gov/ga/apps/sbcc/Page.aspx?nid=191))

**Code(s)** \_\_\_IFC\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **Section(s)** \_\_\_1105.8 & 1105.9\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Enforceable code language must be used; see an example [by clicking here](https://fortress.wa.gov/ga/apps/SBCC/File.ashx?cid=1803).

Amend section to read as follows:

**1105.8 Group I-2 automatic sprinkler system.**

An automatic sprinkler system installed in accordance with Section 903.3.1.1 shall be provided throughout existing Group I-2 fire areas. The sprinkler system shall be provided throughout the floor where the Group I-2 occupancy is located, and in all floors between the Group I-2 occupancy and the level of exit discharge. The sprinkler system shall be further zoned to match the smoke compartments as required by Section 1105.6.1

**1105.9 Group I-2 automatic fire alarm system.**

An automatic fire alarm system shall be installed in existing Group I-2 occupancies in accordance with Section 907.2.6.2. The automatic fire alarm system shall be zoned to match the smoke compartments as required by Section 1105.6.1 for initiating zoning. Notification zones shall match the smoke compartment as required by 1105.6.1 and Section 907.5.2 or 907.5.2.2 as appropriate to the type of notification system.

1. **Briefly explain your proposed amendment, including the purpose, benefits and problems addressed.** Specifically note any impacts or benefits to business, and specify construction types, industries and services that would be affected. Finally, please note any potential impact on enforcement such as special reporting requirements or additional inspections required.

The fire code does not clearly state the requirements for notification zones within existing Group I-2 occupancies. The building code requires these occupancies to be provided with not less than two smoke compartments per floor. Typical emergency procedures is to not evacuate but to relocate using staff to either manually relocate patients or to direct those mobile patients to relocate. With the evacuation actually being staged relocation from one smoke compartment to the adjacent one and then relocate either directly outside if possible, or to another adjacent compartment or to begin vertical relocation. The act of relocation is performed by the patients themselves, or by assistance from staff, and the additional staff must come from within the facility.

Additionally, based on the smoke compartment design concept, the notification signal should be heard first in the smoke compartment where the emergency initiates, whether by fire detection system or fire sprinkler system activation. With this initial signal received in the compartment of origin, the staff can immediately notify the remaining compartment for the need for additional staff to implement emergency procedures. If the alarm signal is not restricted to the initial compartment and is heard throughout the facility, then the additional staff needed in the compartment of origin would be left implementing the emergency procedures in their own compartments and not were needed. This proposal addresses those occupancies having older fire alarms systems without voice capability and those with such capability. Additionally, this proposal brings existing occupancies into line with new facilities and the expected emergency procedures for those facilities.

1. **Specify what criteria this proposal meets.** You may select more than one.

The amendment is needed to address a critical life/safety need.

The amendment is needed to address a specific state policy or statute.

The amendment is needed for consistency with state or federal regulations.

The amendment is needed to address a unique character of the state.

The amendment corrects errors and omissions.

1. **Is there an economic impact:**  Yes      No

Explain:

\*\*A basic primary benefit is operations of the building during emergency’s and the being more effectively communicated with when an emergency occur and what to do about it.

If there is an economic impact, use the Table below to estimate the costs and savings of the proposal on construction practices, users and/or the public, the enforcement community, and operation and maintenance. If preferred, you may submit an alternate cost benefit analysis.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Building Type | Construction[[1]](#footnote-1) | | Enforcement[[2]](#footnote-2) | | Operations & Maintenance[[3]](#footnote-3) | |
| Costs | Benefits[[4]](#footnote-4) | Costs | Benefits4 | Costs | Benefits4 |
| Residential |  |  |  |  |  |  |
| Single family |  |  |  |  |  |  |
| Multi-family |  |  |  |  |  |  |
| Commercial/Retail |  |  |  |  |  |  |
| Industrial |  |  |  |  |  |  |
| Institutional | $10,000 |  |  |  |  | \*\* |

Please send your completed proposal to: [sbcc@ga.wa.gov](mailto:sbcc@ga.wa.gov)

All questions must be answered to be considered complete. Incomplete proposals will not be accepted.

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. [↑](#footnote-ref-1)
2. Cost per project plan. Attach data. **Enforcement** costs include governmental review of plans, field inspection, and other action required for enforcement. [↑](#footnote-ref-2)
3. Cost to building owner/tenants over the life of the project. [↑](#footnote-ref-3)
4. Measurable benefit. [↑](#footnote-ref-4)