



STATE OF WASHINGTON
STATE BUILDING CODE COUNCIL

May 2018
Log No. _____

1. State Building Code to be Amended:

- International Building Code
- ICC ANSI A117.1 Accessibility Code
- International Existing Building Code
- International Residential Code
- International Fire Code
- Uniform Plumbing Code

- International Mechanical Code
- International Fuel Gas Code
- NFPA 54 National Fuel Gas Code
- NFPA 58 Liquefied Petroleum Gas Code
- Wildland Urban Interface Code

For the Washington State Energy Code, please see specialized [energy code forms](#)

Section(s): 2024 IFC SECTION 909.12.2, 2024 IBC SECTION 909.12.2, 2024 IMC SECTION 512.12.2

Title: Fire Alarm Wiring within continuous raceways for Smoke Control / Pressurization Systems

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

Proponent: David Mow

Title: IFC TAG Member (Fire Alarm Industry)

Date: 8/10/24

3. Designated Contact Person:

Name: David Mow

Title: IFC TAG Member (Fire Alarm Industry)

Address: 17410 Ash Way, Ste 8, Lynnwood, WA 98037

Office Phone: (425)290-9600

Cell: ()

E-Mail address: david@fpiseattle.com

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.

Clearly state if the proposal modifies an existing amendment or if a new amendment is needed. If the proposal modifies an **existing amendment**, show the modifications to the existing amendment by underlining all added language and striking through all deleted language. If a new amendment is needed, show the modifications to the **model code** by underlining all added language and striking through all deleted language.

Code(s) 2024 IFC, 2024 IBC, 2024 IMC

Section(s) 909.12.2(IFC&IBC),512.12.2(IMC)

Enforceable code language must be used.

Amend section to read as follows:

2024 IFC & IBC

909.12.2 Wiring. In addition to meeting requirements of NFPA 70, all wiring, regardless of voltage used for circuits supplying detection and control functions shall be protected using one of the following methods: ~~,shall be fully~~

1. Fully enclosed within continuous raceways.

2. Cables used for survivability of required critical circuits shall be listed in accordance with UL 2196 and shall have a fire-resistance rating of not less than 1 hour.

3. Electrical circuit protective systems shall have a fire-resistance rating of not less than 1 hour. Electrical circuit protective systems shall be installed in accordance with their listing requirements.

4. Construction having a fire-resistance rating of not less than 1 hour.

5. The cable is encased in a minimum of 2 inches (51 mm) of concrete

2024 IMC

512.12.2 Wiring. In addition to meeting requirements of NFPA 70, all wiring, regardless of voltage used for circuits supplying detection and control functions shall be protected using one of the following methods: ~~,shall be fully~~

1. Fully enclosed within continuous raceways.

2. Cables used for survivability of required critical circuits shall be listed in accordance with UL 2196 and shall have a fire-resistance rating of not less than 1 hour.

3. Electrical circuit protective systems shall have a fire-resistance rating of not less than 1 hour. Electrical circuit protective systems shall be installed in accordance with their listing requirements.

4. Construction having a fire-resistance rating of not less than 1 hour.

5. The cable is encased in a minimum of 2 inches (51 mm) of concrete

5. Briefly explain your proposed amendment, including the purpose, benefits and problems addressed.

The purpose of this proposal is to provide additional options for survivability protection of smoke control system circuits that are applied elsewhere in the code for critical circuits, and this is the proposed language in code change proposal F139-24 for the 2027 edition of the International Codes. The Fire Code Committee approved it as submitted.

6. 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 clarifies the intent or application of the code.
- 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.

7. Is there an economic impact: Yes No

If no, state reason:

This simply provides additional options for compliance beyond continuous raceways. Will likely not change construction cost or possibly reduce.

If yes, provide economic impact, costs and benefits as noted below in items a – f.

- a. **Life Cycle Cost.** Use the OFM Life Cycle Cost [Analysis tool](#) to estimate the life cycle cost of the proposal using one or more typical examples. Reference these [Instructions](#); use these [Inputs](#). Webinars on the tool can be found [Here](#) and [Here](#)). If the tool is used, submit a copy of the excel file with your proposal submission. If preferred, you may submit an alternate life cycle cost analysis.
- b. **Construction Cost.** Provide your best estimate of the construction cost (or cost savings) of your code change proposal.

\$Click here to enter text./square foot

(For residential projects, also provide \$Click here to enter text./ dwelling unit)

Show calculations here, and list sources for costs/savings, or attach backup data pages
- c. **Code Enforcement.** List any code enforcement time for additional plan review or inspections that your proposal will require, in hours per permit application:
- d. **Small Business Impact.** Describe economic impacts to small businesses:
- e. **Housing Affordability.** Describe economic impacts on housing affordability:
- f. **Other. See attached explanation**

Please send your completed proposal to: sbcc@des.wa.gov

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