



STATE OF WASHINGTON  
**STATE BUILDING CODE COUNCIL**

May 2018  
Log No. \_\_\_\_\_

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

- |   |   |
|---|---|
| <input type="checkbox"/> International 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 type="checkbox"/> International Existing Building Code | <input type="checkbox"/> NFPA 54 National Fuel Gas Code       |
| <input type="checkbox"/> International Residential Code       | <input type="checkbox"/> NFPA 58 Liquefied Petroleum Gas Code |
| <input checked="" type="checkbox"/> International Fire Code   | <input type="checkbox"/> Wildland Urban Interface Code        |
| <input type="checkbox"/> Uniform Plumbing Code                |   |

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

**Section(s):** 3905.3.1

**Title:** *Extraction processes using flammable or combustible liquids or gases*

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

**Proponent:** 2024 International Fire Code Technical Advisory Group

**Title:** TAG Member

**Date:** 9/9/24

**3. Designated Contact Person:**

**Name:** Hugo Sotelo

**Title:**

**Address:**

**Office Phone:** (425)276-9587

**Cell:** ( )

**E-Mail address:** [hsotelo@rentonrfa.org](mailto:hsotelo@rentonrfa.org)

**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

**Section(s)** 3905.3.1 *Extraction processes using flammable or combustible liquids or gases.*

*Continuous mechanical exhaust ventilation shall be provided where extraction processes use flammable or combustible liquids or gases. The mechanical exhaust ventilation shall provide a minimum airflow rate of not less than 5 cfm/ft<sup>2</sup> [0.0254 m<sup>3</sup>/(s\*m<sup>2</sup>)] of floor area to prevent an accumulation of flammable vapors from exceeding 25 percent of the lower explosive limit (LEL).*

*Exception: Where the registered design professional demonstrates that an engineered mechanical exhaust ventilation system design will prevent the maximum concentration of contaminants from exceeding 25 percent of the LEL, the minimum required rate of exhaust shall be reduced in accordance with such engineered system design.*

**Amendment needed to include** *Where approved by the fire code official per 104.2.3*

**Amend section to read as follows:**

*Continuous mechanical exhaust ventilation shall be provided where extraction processes use flammable or combustible liquids or gases. The mechanical exhaust ventilation shall provide a minimum airflow rate of not less than 5 cfm/ft<sup>2</sup> [0.0254 m<sup>3</sup>/(s\*m<sup>2</sup>)] of floor area to prevent an accumulation of flammable vapors from exceeding 25 percent of the lower explosive limit (LEL).*

*Exception: Where the registered design professional demonstrates that an engineered mechanical exhaust ventilation system design will prevent the maximum concentration of contaminants from exceeding 25 percent of the LEL, the minimum required rate of exhaust shall be reduced in accordance with such engineered system design. Where approved by the fire code official per 104.2.3*

**5. 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 proposed amendment will ensure design professional adhere to the provisions set forth per 104.2.3 in which the fire code official can have the opportunity to review and approved any potential non listed equipment that may be supported by other approved engineered testing.*

**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 is consistent with other alternative proposed methods.

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:

Reviewing alternative methods aligns with current review process.

- d. **Small Business Impact.** Describe economic impacts to small businesses: N/A
- e. **Housing Affordability.** Describe economic impacts on housing affordability: N/A
- f. **Other.** Describe other qualitative cost and benefits to owners, to occupants, to the public, to the environment, and to other stakeholders that have not yet been discussed:

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

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