15-001

**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

X 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):**

M1507.3.4.4

M1507.3.5.3

M1507.3.6.5

M1507.3.7.3

**Title:**

Outdoor air inlets

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

**Proponent: Lou Malattia, Clark County Building Safety**

**Title: Lead Plans Examiner**

**Date: 12/31/14**

**3. Designated Contact Person:**

**Name: Lou Malattia**

**Title: Lead Plans Examiner**

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**E-Mail address: Lou.Malattia@clark.wa.gov**

**4. Proposed Code Amendment**.

**Code(s)** IRC **Section(s)** M1507.3.4.4, M1507.3.5.3, M1507.3.6.5, M1507.3.7.3

**Code Sections:**

**M1507.3.4.4** **Outdoor air inlets.** Outdoor air shall be distributed to each habitable space by individual outdoor air inlets. Where outdoor air supplies are separated from exhaust points by doors, provisions shall be made to ensure air flow by installation of distribution ducts, undercutting doors, installation of grilles, transoms, or similar means. Doors shall be undercut to a minimum of 1/2 inch above the surface of the finish floor covering.

Individual room outdoor air inlets shall:

1. Have controllable and secure openings;

2. Be sleeved or otherwise designed so as not to compromise the thermal properties of the wall or window in which they are placed;

3. Provide not less than 4 square inches of net free area of opening for each habitable space. Any inlet or combination of inlets which provide 10 cfm at 10 Pascals are deemed equivalent to 4 square inches net free area.

Inlets shall be screened or otherwise protected from entry by leaves or other material. Outdoor air inlets shall be located so as not to take air from the following areas:

*All prohibited locations (1 through 6) would remain unchanged. Add # 7.*

**7. Closer than 2-feet from the roof surface measured from the closest location.**

**M1507.3.5.3** **Outdoor air inlets**. Inlets shall be screened or otherwise protected from entry by leaves or other material. Outdoor air inlets shall be located so as not to take air from the following areas:

*All prohibited locations (1 through 6) would remain unchanged. Add # 7.*

**7. Closer than 2-feet from the roof surface measured from the high side of vent penetration through the roof.**

**M1507.3.6.5 Outdoor air inlets.** Inlets shall be screened or otherwise protected from entry by leaves or other material. Outdoor air inlets shall be located so as not to take air from the following areas:

*All prohibited locations (1 through 6) would remain unchanged. Add # 7.*

**7. Closer than 2-feet from the roof surface measured from the high side of vent penetration through the roof.**

**M1507.3.7.3** Outdoor air inlets. Inlets shall be screened or otherwise protected from entry by leaves or other material. Outdoor air inlets shall be located so as not to take air from the following areas:

*All prohibited locations (1 through 6) would remain unchanged. Add # 7.*

**7. Closer than 2-feet from the roof surface measured from the high side of vent penetration through the roof.**

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 current language is confusing and does not specifically prohibit Fresh Air inlets from being installed directly above the roof deck. This can allow off gassing from asphalt roofing to be brought directly into the house which adversely affects indoor air quality. Having specific language that prohibits roof deck mounted vents would simplify enforcement. If it is clear to builders and mechanical contractors that this is not allowed the rework required to relocate the vents can be eliminated.

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

X 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.

X The amendment corrects errors and omissions.

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

Explain: This is a minor change in the location of the fresh air inlet that is easily accomplished. Having the location clearly spelled out in the code would make enforcement much easier while helping improve indoor air quality (IAQ).

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 | Minimal | Improved  indoor air  quality / less  rework | None | Easy  Enforcement | None | Easier access to  clean screens |
| Single family | Minimal | Improved  indoor air  quality / less  rework | None | Easy  Enforcement | None | Easier access to  clean screens |
| Multi-family | Minimal | Improved  indoor air  quality / less  rework | None | Improved  indoor air  quality | None | Easier access to  clean screens |
| Commercial/Retail |  |  |  |  |  |  |
| Industrial |  |  |  |  |  |  |
| Institutional |  |  |  |  |  |  |

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)