

**From:** [no-reply=paperform.co@mg.paperform.co](mailto:no-reply=paperform.co@mg.paperform.co) on behalf of [Paperform](#)  
**To:** [Kathy Hehnlly](#); [Alisha Davidson](#)  
**Subject:** [EXTERNAL] Code Change Proposal Form Submitted  
**Date:** Thursday, February 29, 2024 3:04:30 PM  
**Attachments:** [65e0f0c4151a1715da0cf30c.pdf](#)

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## FGMP-48 R1

# Code Change Proposal

**Submitted At**

02-29-2024 15:01:56

**First & Last Name**

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**Will this change increase the cost of construction?**

YES

**Which code needs to be revised?**

2021 and 2024 IMC, IFGC, IPC

**Which section of the code needs to be revised?**

Section: 2024 IMC 307.1, 2021 IMC 307.1, 2024 IFGC 307.2, 2021 IFGC 307.1, 2024 IPC 314.1, 2021 IPC 314.1

Table:

Figure:

Page Number: see attachment

**Paste your text into the box to show the proposed new, revised, or deleted text in Legislative format. Line through text to be deleted and underline text to be added or revised.**

see attached

**Attach documentation if needed.**

- [20240229153128.pdf](#)
- [20240229153128.pdf](#)

**State the purpose and reason for the change and provide substantiation to support the proposed change.**

Liquid combustion byproducts are acidic with a PH 3. This acidic byproduct can damage plumbing and could be considered as a prohibited discharge by the clean water act. A 90% furnace can produce up to 5 gallons of liquid byproducts a day. This is not a large quantity but in the future all combustion heater are to be at 90% efficient which the overall amount of discharge is increased. A neutralizer will help protect the plumbing from damage and will protect the enviroment if it is allowed to discharge to the outside on the ground.

I contacted the waste water treament plant supervisor in Yukon, OK and ask if all houses in Yukon were to discharge 5 gallons of combustion byproducts with a ph 5 would this give the waste treatment problems. He said it would but his real concern was all the lift stations pumps are not design for acids.

**Submission ID**

65e0f0c4151a1715da0cf30c

### **2024 IMC 307.1 Fuel-Burning Appliances page 39**

Liquid combustion by-products of condensing appliances shall be collected and discharged to an approved plumbing fixture or disposal area in accordance with the manufacturer's installation instructions. Condensate piping shall be of approved corrosion-resistant material and shall not be smaller than the drain connection on the appliance. Such piping shall maintain a minimum horizontal slope in the direction of discharge of not less than one-eighth unit vertical in 12 units horizontal (1-percent slope). An acid neutralizer shall be installed before discharge of liquid combustion byproducts.

### **2021 IMC 307.1 Fuel-Burning Appliances page 3-7**

Liquid combustion by-products of condensing appliances shall be collected and discharged to an approved plumbing fixture or disposal area in accordance with the manufacturer's installation instructions. Condensate piping shall be of approved corrosion-resistant material and shall not be smaller than the drain connection on the appliance. Such piping shall maintain a minimum horizontal slope in the direction of discharge of not less than one-eighth unit vertical in 12 units horizontal (1-percent slope). ). An acid neutralizer shall be installed before discharge of liquid combustion byproducts.

### **2021 IFGC 307.1 Fuel-Burning Appliances page 3-9**

Liquid combustion by-products of condensing appliances shall be collected and discharged to an approved plumbing fixture or disposal area in accordance with the manufacturer's installation instructions. Condensate piping shall be of approved corrosion-resistant material and shall not be smaller than the drain connection on the appliance. Such piping shall maintain a minimum horizontal slope in the direction of discharge of not less than one-eighth unit vertical in 12 units horizontal (1-percent slope). The termination of concealed condensate piping shall be marked to indicate whether the piping is connected to the primary drain or secondary drain. ***(The last line was added to 2021 IFGC)***. An acid neutralizer shall be installed before discharge of liquid combustion byproducts.

### **2024 IFGC 307.2 Fuel-Burning Appliances**

Liquid combustion by-products of condensing appliances shall be collected and discharged to an approved plumbing fixture or disposal area in accordance with the manufacturer's installation instructions. Condensate piping shall be of approved corrosion-resistant material and shall not be smaller than the drain connection on the appliance. Such piping shall maintain a minimum horizontal slope in the direction of discharge of not less than one-eighth unit vertical in 12 units horizontal (1-percent slope). The termination of concealed condensate piping shall be marked to

indicate whether the piping is connected to the primary drain or secondary drain. *(The last line was added to 2021 IFGC).* An acid neutralizer shall be installed before discharge of liquid combustion byproducts.

### **2021 IPC 314.1 Fuel-Burning Appliances page 3-6**

Liquid combustion by-products of condensing appliances shall be collected and discharged to an approved plumbing fixture or disposal area in accordance with the manufacturer's installation instructions. Condensate piping shall be of approved corrosion-resistant material and shall not be smaller than the drain connection on the appliance. Such piping shall maintain a minimum horizontal slope in the direction of discharge of not less than one-eighth unit vertical in 12 units horizontal (1-percent slope). ). An acid neutralizer shall be installed before discharge of liquid combustion byproducts.

### **2024 IPC 314.1 Fuel-Burning Appliances page 35**

Liquid combustion by-products of condensing appliances shall be collected and discharged to an approved plumbing fixture or disposal area in accordance with the manufacturer's installation instructions. Condensate piping shall be of approved corrosion-resistant material and shall not be smaller than the drain connection on the appliance. Such piping shall maintain a minimum horizontal slope in the direction of discharge of not less than one-eighth unit vertical in 12 units horizontal (1-percent slope). ). An acid neutralizer shall be installed before discharge of liquid combustion byproducts.