

IADMIN



cdpACCESS

2024 GROUP A PROPOSED CHANGES TO THE I-CODES

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IADMIN Code Change Proposals

The following code change proposal is labeled as ADM change proposal because it is a proposal for a change to sections in chapters that are designated as the responsibility of the IADMIN Committee (see page iv of the Introductory pages of this monograph), which meets in the Group B cycle in 2025. However, the change is included in this Group A code development cycle because, at their February 14, 2024 meeting, the ICC Code Correlation Committee approved scoping the change to be heard by the IFGC Committee.

The committee assigned for each code change proposal is indicated in a banner statement near the beginning of the proposal. See the IFGC hearing order.

ADM1-24

IFGC: 101.2.2.1 (New), 107.1.1 (New)

Proponents: Andrew Bevis, Chair, Plumbing, Mechanical and Fuel Gas Code Action Committee (pmgcac@iccsafe.org)

THIS PROPOSAL WILL BE HEARD BY THE IFGC CODE COMMITTEE. SEE THE TENTATIVE HEARING ORDER FOR THIS COMMITTEE.

2024 International Fuel Gas Code

Add new text as follows:

101.2.2.1 Systems where hydrogen admixtures greater than 5-percent are supplied. Fuel gas, where hydrogen admixtures are delivered, shall meet the requirements of Chapters 3, 4, 5, and 6 for the supplier-defined hydrogen admixture limits, expressed in volume concentration of gaseous hydrogen for service up to the defined hydrogen admixture limits.

107.1.1 Fuel gases. Where hydrogen admixtures are supplied, the code official shall be provided with compositional description of the fuel gas.

Reason: Section 101.2.2.1

This is one of several revisions that address the potential for hydrogen admixtures. This language confirms that systems delivering hydrogen admixtures to end use appliances and equipment must conform with requirements already in effect for natural gas including installation locations, clearances, and other installation conditions (Chapter 3), gas piping requirements (Chapter 4), appliance and equipment chimneys and vents (Chapter 5), and appliance-specific installation requirements (Chapter 6). This section is applicable to the IRC Chapter 24 as well as the IFGC. Hydrogen admixtures above 5% have a range of >5% - <95% due to the requirements found in Chapter 7 which are exclusively for Gaseous Hydrogen Systems which are defined as having at least 95% hydrogen gas by volume and not more than 1 percent oxygen by volume.

[F] GASEOUS HYDROGEN SYSTEM.

An assembly of *piping*, devices and apparatus designed to generate, store, contain, distribute or transport a nontoxic, gaseous hydrogen containing mixture having at least 95-percent hydrogen gas by volume and not more than 1-percent oxygen by volume. Gaseous hydrogen systems consist of items such as compressed gas containers, reactors and appurtenances, including pressure regulators, pressure relief devices, manifolds, pumps, compressors and interconnecting *piping* and tubing and controls.

Section 107.1.1

Due to the introduction of Hydrogen Admixtures in Natural Gas supplies, this proposed revision provides the requirement the code official be provided with the compositional description of the fuel gas to ensure appliances and equipment and piping systems are listed for use with the correct fuel gas and admixtures for the type of fuel supplied in accordance with section 301.3 Listed and labeled.

301.3 Listed and labeled.

Appliances regulated by this code shall be *listed* and *labeled* for the application in which they are used unless otherwise *approved* in accordance with [Section 105](#). The approval of unlisted appliances in accordance with [Section 105](#) shall be based on *approved* engineering evaluation.

This proposal is submitted by the ICC Plumbing Mechanical Gas Code Action Committee (PMGCAC)

PMGCAC was established by the ICC Board of Directors in July 2011 to pursue opportunities to improve and enhance assigned International Codes or portions thereof. In 2023 PMGCAC has held 26 virtual meetings open to any interested party. In addition, there were several virtual Working Group meetings for the current code development cycle, which included members of the committee as well as interested parties. Related documents and reports are posted on the PMGCAC website at [PMGCAC](#).

Cost Impact: The change proposal is editorial in nature or a clarification and has no cost impact on the cost of construction
ICC COMMITTEE ACTION HEARINGS ::: April 2024

ADM2

Justification for no cost impact:

The two new sections merely define what is fuel gas as opposed to a hydrogen admixture. The sections do not require any technical change and thus there will not be any labor or material expended as a result of the inclusion of these two sections in the code.

ADM1-24
