

**Significant Changes to the
California Fire Code
2022 Edition**

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Preface

The purpose of *Significant Changes to the California Fire Code*[®], 2022 Edition, is to familiarize fire officials, building officials, plans examiners, fire inspectors, design professionals and others with many of the important changes in the 2022 *California Fire Code*[®] (CFC[®]). This publication is designed to assist code users in identifying the specific code changes that have occurred and, more important, in understanding the reasons behind the changes. It is also a valuable resource for jurisdictions in order to help them explain the significance and impact of the changes as they go through their code adoption process.

Only a portion of the total number of code changes to the CFC are discussed in this book. The changes selected were identified for a number of reasons, including their frequency of application, special significance or change in application. However, the importance of the changes not included is not to be diminished. Further information on all code changes can be found in the Complete Revision History, available from the International Code Council[®] (ICC[®]), through the online store at <http://shop.iccsafe.org>. This resource collection provides the published documentation for each successful code change contained in the 2021 *International Fire Code*[®] (IFC[®]) since the 2018 edition.

Significant Changes to the California Fire Code, 2022 Edition, is arranged to follow the general layout of the CFC, including code sections and section number format. The table of contents, in addition to providing guidance in the use of this publication, allows for a quick identification of those significant code changes that occur in the 2022 CFC.

Throughout the book, code changes are accompanied by a photograph or an illustration to assist in and enhance the reader's understanding of the specific change. A summary and a discussion of the significance of the change are also provided. Each code change is identified by type, be it an addition, modification, clarification or deletion.

The code change itself is presented in a legislative format similar to the style utilized for code change proposals. Deleted code language is shown with a strikethrough, and new code text is indicated by underlining. As a result, the actual 2022 code language is provided as well as

a comparison with the 2019 language, so the user can easily determine changes to the specific code text.

As with any code change text, *Significant Changes to the California Fire Code, 2022 Edition*, is best used as a companion to the 2022 CFC. Because only a limited discussion of each change is provided, the reader should reference the code itself in order to gain a more comprehensive understanding of the code change and its application.

The commentary and opinions set forth in this text are those of the author and do not necessarily represent the official position of ICC. In addition, they may not represent the views of any enforcing agency because such agencies have the sole authority to render interpretations of the CFC. In many cases, the explanatory material is derived from the reasoning expressed by code change proponents.

Comments concerning this publication are encouraged and may be directed to ICC at significantchanges@iccsafe.org.

About the *International Fire Code*

Fire code officials, fire inspectors, building officials, design professionals, contractors and others involved in the field of fire safety recognize the need for a modern, up-to-date fire code. The *International Fire Code*[®] (IFC[®]), 2021 Edition, is intended to meet these needs through model code regulations that safeguard the public health and safety in all communities, large and small. The IFC is kept up to date through ICC's open code development process. The provisions of the 2018 edition, along with those code changes approved through 2019, make up the 2021 edition.

One in a family of International Codes[®] published by ICC, the IFC is a model code that establishes minimum fire safety requirements for new and existing buildings, facilities, storage and processes. It addresses fire prevention, fire protection, life safety, and safe storage and use of hazardous materials. The IFC provides a total approach to controlling hazards in all buildings and sites, regardless of the hazard being indoors or outdoors.

The IFC is a design document. For example, before a building is constructed, the site must be provided with an adequate water supply for fire-fighting operations and a means of building access for emergency responders in the event of a medical emergency, fire or natural or technological disaster. Depending on the building's occupancy and uses, the IFC regulates the various hazards that may be housed within the building, including refrigeration systems, application of flammable finishes, fueling of motor vehicles, high-piled combustible storage and the storage and use of hazardous materials. The IFC sets forth minimum requirements for these and other hazards and contains requirements for maintaining the life safety of building occupants, for the protection of emergency responders, and to limit the damage to a building and its contents as the result of a fire, explosion or unauthorized hazardous material discharge and electrical systems. The IFC is available for adoption and use by jurisdictions internationally. Its use within a governmental jurisdiction is intended to be accomplished through adoption by reference, in accordance with proceedings establishing the jurisdiction's laws.

About the California Fire Code

Building officials, design professionals and others involved in the building construction industry recognize the need for a modern, up-to-date building code addressing the design, construction and installation of building systems through requirements emphasizing performance. The 2021 IFC is the basis for the 2022 CFC and is intended to meet these needs through model code regulations that safeguard the public health and safety in all communities, large and small.

The CFC is one in a family of California building codes (California Code of Regulations, Title 24) that are published on a triennial basis. This comprehensive fire code establishes minimum regulations for building systems by means of prescriptive and performance-related provisions. It is founded on broad-based principles that make possible the use of new materials and new building designs. The California Building Standards Commission (CBSC) is responsible for the administration of each code cycle, which includes the proposal, review and adoption processes. Supplements and errata are issued throughout the cycle.

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Significant Changes to the California Fire Code, 2022 Edition, is the result of a collaborative effort, and the author is grateful for the assistance and contributions by the California Fire Chiefs Association Fire Prevention Officers Section, the California Office of the State Fire Marshal and the following talented staff of ICC Business and Product Development: Hamid Naderi, P.E., C.B.O., Senior Vice President; Doug Thornburg, A.I.A., C.B.O., Vice President, Director of Education and Certification; and Jay Woodward, A.I.A., Senior Staff Architect. The author would also like to thank Bob Davidson, Davidson Code Concepts, LLC; Howard Hopper, Regulatory Services Program Coordinator with Underwriters Laboratories LLC; Elley Klausbruckner, Klausbruckner & Associates, Inc.; and Dan Finnegan, Siemens Industry, Inc. for their insight and assistance with application of some of the technical requirements.

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Kevin Reinertson has been actively involved in code development, fire prevention and code enforcement for 31 years. Kevin has served as the State Fire Marshal's representative on the California Building Standards Commissions Code Coordinating Council and the California Building Officials/California

Fire Chiefs Building Fire Advisory Committee. He is also a past chair of the Sacramento Valley Association of Building Officials Code Review and Development Committee. Kevin served on the Executive Board of the California Fire Chiefs Associations (Cal Chiefs) Fire Prevention Officers Southern Section, ICC Chapter and serves as co-chair of their Building and Fire Code Committee and Cal Chiefs Legislative Committee. In 2017 Kevin was appointed by the ICC Board of Directors to the ICC Fire Code Action Committee for a 3-year term, which was followed by a new appointment through the International Association of Fire Chiefs Fire Life Safety Section in 2022.

Kevin Reinertson joined the Riverside County Fire Department, California in 2015 as a Deputy Fire Marshal in charge of Administration and Special Projects, where he assists in the development, improvement, delivery and management of the Office of the County Fire Marshal.

Prior to coming to Riverside County, Kevin Reinertson worked at the California State Fire Marshal's Office (OSFM), where he was appointed Division Chief of Code Development and Analysis Division in 2011 and oversaw the adoption of the initial I-Codes in 2006 and subsequent years up to the adoption of the 2016 California Fire and Building Codes. During his tenure at the OSFM, Kevin was involved with many committees and initiatives, including:

- Residential Fire Sprinklers and the California Codes Task Force
- Governor's Office Solar Photovoltaic Guidelines Committee
- Governor's Office Hydrogen Fuel Vehicle Stations Guidebook Task Group
- Wildland Urban Interface Construction Standards Committee
- Task Group 400
- High-Rise Task Force
- Flammability Standards for Building Insulation Materials Committee

Kevin's involvement in fire and building codes stems from his work in designing and drafting building plans for his father's architectural firm. Before finding his way to the California Office of the Fire Marshal, Kevin was a District Representative II for the California Department of Housing and Community Development, which administers the building construction codes for residential occupancies for statewide application, as well as a Building Inspector and Plans Examiner for the City of Roseville and Sacramento County.

Through the years, Kevin Reinertson has received several awards, including:

- Bob Stoddard Inspector of the Year Award in 2001—presented by the Sacramento Valley Association of Building Officials
- Chuck Code Development Award on 2003—presented by the Sacramento Valley Association Building Officials
- Fire Official of the Year Award in 2009—presented by the California Building Officials
- CAL FIRE Director's Leadership Award in 2009—presented by CAL FIRE Director
- CAL FIRE Director's Partnership Award in 2010—presented by CAL FIRE Director
- Charles H. Gray Award in 2011—presented by the Northern California State Fire Prevention Officers' Association

Kevin H. Scott
President
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Kevin Scott is President of KH Scott & Associates LLC. Kevin has extensive experience in the development of fire safety, building safety and hazardous materials regulations. Kevin has actively worked for over 30 years in the development of fire code, building code and fire safety regulations at the local, state, national and international levels. Kevin previously worked as a Senior Regional Manager with the International Code Council, and before that, he was Deputy Chief for the Kern County Fire Department, California, where he worked for 30 years. He has developed and presented many seminars on a variety of technical subjects, including means of egress, high-piled combustible storage, hazardous materials and plan review and inspection practices.

Kevin was a member of the original IFC Drafting Committee that worked to create the first edition of the IFC. He served for 7 years on the IFC Code Development Committee and was chairperson for the committee from 2001 to 2004. Kevin has actively participated in numerous technical committees to evaluate specific hazards and technologies, and to create regulations specific to those hazards.

Some of the more significant committees are:

- High-piled Combustible Storage Committee
- Hydrogen Gas Ad Hoc Committee
- Task Group 400
- Technical Advisory Committee on Retail Storage of Group ‘A’ Plastic Commodities
- Underwriters Laboratories Fire Council

Kevin’s constant work to improve fire and life safety has been recognized on many levels. His contributions have been acknowledged by various organizations when they presented him with the following awards:

- Mary Eriksen-Rattan Award in 2013—presented by the Southern California State Fire Prevention Officers’ Association
- William Goss Award in 2009—presented by the California State Firefighters Association
- Fire Official of the Year Award in 2005—presented by the California Building Officials
- Robert W. Gain Award in 2003—presented by the International Fire Code Institute

About the International Code Council®

The International Code Council is the leading global source of model codes and standards and building safety solutions that include product evaluation, accreditation, technology, codification, training and certification. The Code Council's codes, standards and solutions are used to ensure safe, affordable and sustainable communities and buildings worldwide. The International Code Council family of solutions includes the ICC Evaluation Service, the International Accreditation Service, General Code, S. K. Ghosh Associates, NTA Inc., ICC Community Development Solutions and the Alliance for National & Community Resilience. The Code Council is the largest international association of building safety professionals and is the trusted source of model codes and standards, establishing the baseline for building safety globally and creating a level playing field for designers, builders and manufacturers.

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