### NFCA Year in Review...

Bill McHugh, NFCA Executive Director Rich Walke, CTI, Consultant to the NFCA Carl Fernald, NFCA President

NFCA FREE Webinar Series Learn – Network – Grow





### 2022/2023 NFCA Board of Directors

President Carl Fernald, Rolling Plains Construction, Apache Junction, AZ

1st V. P. Steve Winston, American Coatings Corp., Ashland, VA

2<sup>nd</sup> V. P. Mathew Stephenson, Commercial Fireproofing & Insulation, Dallas, TX

Treasurer Nikita Gordon, Gunnlaugson spray-On (2010) Ltd, Winnipeg, MB

Secretary Adam Carter, Superior Industrial Insulation Company, Cleveland, OH

Past President Jonathan Wohl, Wohl Diversified Services, Port Chester, NY

Director Don Armand, Donalco, Edmonton, AB (Keith Kennedy, Aries, ON '21)

Director Bob Pool, Alfred Miller Contracting, Lake Charles, LA

Director Paul Steele, The Raymond Group, Orange, CA

Director Matthew Strieter, Southern Insulation Inc., Hyattsville, MD

Director Neal Rivers, Easley and Rivers, Pittsburgh, PA

Director Daniella Lopez, Nevell Group, Inc. Concord, CA

Director George Fine, True Fireproofing, Tulsa, OK (John Taglienti, East Coast FP retired)

Dir Emeritus Howard Towler - Acme Fireproofing, Jenks. OK

Dir Emeritus Bubba Winston - American Coatings, Ashland, VA





### **Manufacturer Sponsor Members**

NFCA Manufacturer GOLD Member Sponsor



NFCA Manufacturer SILVER Member Sponsors





### **Presidents Remarks – Carl Fernald**



# NFCA's 2022 Membership Growth

- Barrier Technologies, Inc. WA
- CJ Spray (Associate Member)
- Caston, Inc. CA
- Christman Constructors, Inc. MI
- Chicago Waterproof Co IL
- Dale Construction PA
- Diverse Works OR
- Divisions Contractors NC
- FireWise Consultants, LLC (Associate Inspection Member)

## NFCA's 2022 Membership Growth

- JIL Engineering & Construction NB-Canada
- JT Thorpe TX
- Kaloutas & Company, Inc. MA
- Lanzandoras De Recubrimentos (Associate Member)
- L.B. Hall Enterprises, Inc. IL
- Sharpe Interior Systems CA
- Spray Foam Kings ON-Canada
- Terry McGill Inc. NE
- United Spray NY

# NFCA's 2020-2022 Accomplishments

### NFCA Membership

- $\bullet 2014 52$
- •2015 75
- •2016 102
- •2017 120
- •2018 150
- •2019 164
- -2020 164
- -2021 169
- •2022 174+ YTD

**Retention @ 91-96%** 



# NFCA 2022 Wrap Up

- NFCA @ ICC Codes...
  - •2024 SFRM/IFRM Proposals...
  - April Rochester, NY
  - September Louisville, KY



- April Seattle, WA
- October New Orleans, LA
- NFCA @ NFPA Fire Protection Features
  - Virtual Meeting July 2022







## NFCA 2022 Wrap Up

- NFCA @ National Codes, Canada
  - NFCA Code Submissions
  - Fire Rated Roofs
  - UL Qualified Contractors
  - Special Inspection



- NFCA @ SFPE/ASCE Meetings
  - •NFCA 2019, 2020, 2021



## NFCA 2022 Wrap Up

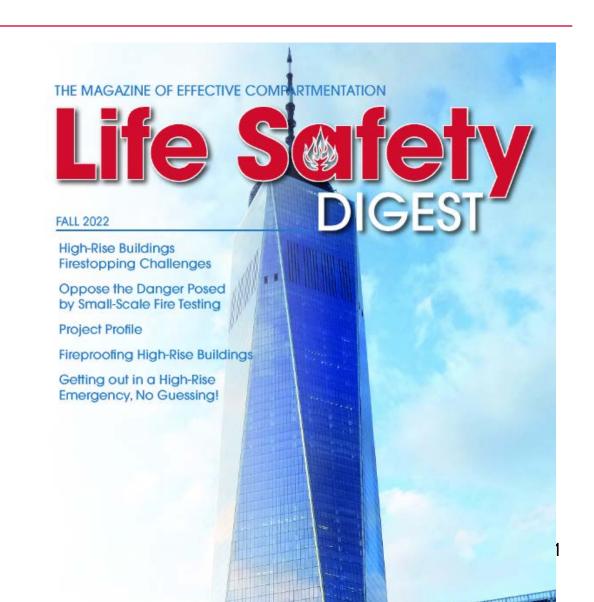
- NFCA @ AISC, AISI
  - Meetings at ICC
  - AISC @ BoD Meeting, Education Program
  - AISI Attachments Discussions
  - AISI & AISC, NFCA @ Code Development
  - NFCA @ AISC Innovation Convention





# NFCA 2022 Wrap Up – Articles

- Life Safety Digest
  - Thermal Barriers
  - Patching Fireproofing
  - High Rise Construction
  - Full Scale Fire Testing
- Walls & Ceilings



### What does NFCA Do?

### NFCA Committee ACTIONS

- Program
- Code
- Standards
- Safety
- Task Groups
  - •IFRM Finish
  - Attachments



### What Does NFCA Provide?



- Fireproofing Education & Exams
  - World-Class SFRM & IFRM Fireproofing Instruction
- NFCA Contractor Accreditation Program for IFRM & SFRM
  - Educated fireproofing Companies
- NEW UL Qualified SFRM Contractor Program

# NFCA Handbook of Accepted Fireproofing Knowledge (HAFK)





- Study Resource for NFCA Fireproofing Exams
- Fireproofing in 'One Place'
- SAFETY HANDBOOK INCLUDED
- NFCA Members = \$500 Discount

www.nfca-online.org

# NFCA Handbook of Fireproofing Knowledge

- Chapter 1 General Information
- Chapter 2 Standards for Fireproofing Building Construction
- Chapter 3 Standards for Fireproofing Petrochemical Facilities
- Chapter 4 Code Requirements for Fireproofing
- Chapter 5 Understanding the UL Product iQ Online Directory
- Chapter 6 Installation Considerations Common to Sprayed Fire-Resistive Materials and Intumescent Fire-Resistive Materials
- Chapter 7 Installation Considerations for Sprayed Fire-Resistive Materials
- NEW Chapter 8 Quality Management Systems Developed for the UL QFCP Program



Safety...

# NFCA Handbook of Accepted Fireproofing Knowledge (HAFK)





- Get the Word Out!
- FREE HAFK PDF
  - AHJ's Code Officials, Fire Marsha.s
  - Specifiers with Design Firms
  - Independent Specifiers
- Email Contact Info:
  - INFO@NFCA-online.org

# **NFCA Contractor Accreditation Program**

- SFRM, IFRM Contractor Accreditation
- Soon, ALL Fireproofing Products
- Education, Exams
  - Commitment to Quality
  - DRI on Staff









# **NFCA Contractor Accreditation Program**

- What's Required?
  - NFCA Contractor Member (2 years in fireproofing, 20 completed projects)
  - NFCA & ASTM, UL Standards
  - Contractor Designated Responsible Individual
    - VIRTUAL Education & Exams
  - Commitment to Quality, NFCA Standards
  - Focus on Fireproofing & Quality
  - Annual Licensing Fees

# Maintaining NFCA Accreditation – DRI CEU's

- 10 CEU's / year OR 30 CEU's / 3yrs. One hour equals 1 CEU.
   Attained through...
- Attending seminars, Instructional Sessions, Webinars
  - NFCA Week of Learning
  - Fire-Resistance
  - Fireproofing
  - Safety
  - Building & Fire Codes
  - Standards
  - Educational Conferences
  - NFCA & Other Webinars

OR

DRI retakes and successfully pass the examination every three years.

# NFCA's Contractor Accreditation Program

- NFCA Education & Exams '22
  - •IFRM VIRTUAL Jan & Nov 35
  - •IFRM LIVE 17
  - •IFRM '21/22 Total 52

- •SFRM VIRTUAL 43
- •SFRM LIVE 18
- •SFRM Total 63



• Total = 115 Exams !!

# NFCA's 2022 Accomplishments

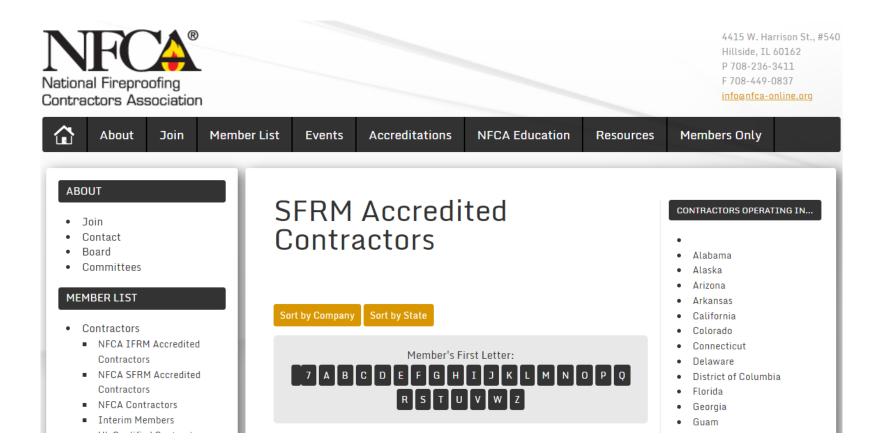
- NFCA Contractor Accreditation Program –
- (CAP)NEW CONTRACTORS
  - Accurate Firestop
  - Mader Construction

NFCA ACCREDITED Contractors: 67



### **NFCA CAP Contractors**

- Successful Contractor meeting requirements
- Listed @ NFCA-Online.org



# **UL Qualified Fireproofing Contractor Program**

- Relaunched April, 2020
  - NFCA DRI
  - Management System (MS)

### UL Qualified Spray-Applied Fire Resistive Material (SFRM) Contractor Program requirements

#### Mark Integrity Program

#### Introduction:

This document outlines the contractor company requirements for participation in the UL Qualified Spray-Applied Fire Resistive Material (SFRM) Contractor Program.

The SFRM installation industry serves residential, institutional, commercial and industrial structures. The industry addresses the need to limit the damaging effects of fire by insulating structural building elements from fire. SFRMs help horizontal assemblies including floor/ceiling, roof/ceiling and building elements such as beams and columns obtain fire endurance ratings. SFRM contractors install certified SFRMs to establish a protective system for a structure to protect fire and life safety and comply with specification and customer requirements.

In order for a SFRM installation contractor organization to qualify for UL's SFRM Contractor Program, the contractor organization shall employ a knowledgeable individual who successfully demonstrates their competency to UL through successful completion of the Designated Responsible Individual (DRI) program at a contractor company that has been recognized in the NFCA Contractor Accreditation Program (CAP)

The company that enrolls in the UL Qualified SFRM Contractor program also has to establish, implement and maintain a management system focused on the application of SFRMs. A management system is used to describe the contractor's SFRM operations.

The Management System approach requires the Contractor

may be determined by the construction documents that have had final approval by code authorities. Where special inspection is implemented, the AHJ ultimately determines the acceptability of the installation.

Because the SFRM contractor firm's selection and installation of SFRMs to requirements relies on staff knowledge, the UL Qualified SFRM Contractor Program requires at least one individual employed by the Contractor organization to be designated as a Designated Responsible Individual (DRI) who has demonstrated his/her knowledge via examination and meets other related requirements defined in this document.

#### Definitions

Authority Having Jurisdiction (AHJ) — The organization, office or individual responsible for implementing the adopted code. This is typically the building official or fire marshal, or another governmental agency who may also be the final authority signing the "Certificate of Occupancy Permit".

Certificate — The SFRM Contractor Certificate. This is a document issued after an audit has been completed, and conformance to all UL Qualified SFRM Contractor Program Requirements has been determined. The Certificate is valid until Dec. 31 of the following year from which the certificate was instead.

Continuing Education Unit (CEU) — For purposes of awarding CEU credit, the International Association of Continuing Education and Training (IACET) definition will be used for those individuals involved in the UL Qualified SFRM Contractor Program as follows: One (1) CEU is equal to 10

# **UL Qualified Fireproofing Contractor Program**

- Relaunched April, 2020
  - Audited
    - Contractor's Office
    - A Jobsite "Audit"

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# 10 Elements of the management system



- 1. Construction document requirements and review
- 2. Procurement of SFRM materials
- 3. Storage, handling, preservation and delivery of Fireproofing materials
- 4. Installation and quality assurance procedures
- 5. Inspection and testing
- 6. Control of non-conforming materials
- 7. Training and qualifying staff
- 8. Corrective and preventative actions
- 9. Management system monitoring and improvement
- 10. Documentation and record keeping



### Certificate



Certificate Number: 1004

### QUALIFIED SPRAY APPLIED FIRE RESISTIVE MATERIAL (SFRM) CONTRACTOR CERTIFICATE

Issued: February 5, 2020

Company Name: RECAL Recubrimientos File Number: R39631

Expires: December 31, 2021

Address: Paseo de la Reforma 243, Piso 17, Col. Cuautemoc, Cd. De Mexico, CP 06600

Telephone: 33 1368 9815 Email Address: rene.zorrilla@recal.mx

This company has demonstrated that it complies with UL's Qualified Spray Applied Fire Resistive Material (SFRM) Contractor Program Requirements. This certificate is not transferable and expires on December 31st of the following Year. This certificate may be displayed, copied and shared with others but must be used in its entirety.

Only those companies listed in UL's online Directory for the Qualified Spray Applied Fire Resistive Material (SFRM)Contractor Program at www.ul.com/sfrm are considered eligible for this program and to use this Certificate and the UL Qualified Spray Applied Fire Resistive Material (SFRM) Contractor Program Marking (shown here) in its advertising and promotional material in accordance with marking guidelines provided at www.ul.com/sfrm.



Qualified SFRM Contractor Program

**Underwriters Laboratories** reserves the right to void this certificate at any point. This certificate does not indicate compliance with any UL product certification program. For additional information regarding the Qualified Spray Applied Fire Resistive Material (SFRM) Contractor Program, please visit **www.ul.com/sfrm** 

Copyright© 2012 UL LLC



# Why become a UL SFRM?

- An independent, 3<sup>rd</sup> party credential that differentiates contractor firms
- This credential allows contractors to:
  - Bid projects that specify a UL or ULC Qualified SFRM Contractor
  - Increase efficiencies in operations
  - Increase confidence for customers, architects, specifiers, manufacturers and general contractors
- Improve company performance through an effective Quality Management System and continuous improvement



Qualified SFRM Contractor Program





# **UL Qualified Fireproofing Contractor Program**

- Several Contractors working on Management System Manuals
- Specs Appearing
- Ruben.SandovalJR@UL.com
- Mark.St.Onge@UL.com

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### What Does NFCA Provide?

### NFCA Week of Learning

- Network
  - Fireproofing Contractors
  - Fireproofing Inspection Agencies
  - Manufacturers, Distributors
  - Associates Equipment Suppliers
- A forum to learn from one another
- Technical Programs
- Motivational Programs
- Hands On
- Standards and Code Discussions
- Top 10
- More...













# NFCA Upcoming Educational Events



- NFCA Free Webinar Series '23!
  - Monthly Webinars Fireproofing Topics
- NFCA 2023 Week of Learning Charlotte, NC
  - NFCA Education & Exams for DRI's in CAP, Inspectors
  - Fireproofing Educational Conference
  - March 27-31, 2023
  - Marriott Conference Center @ Univ. of North Carolina



# NFCA Award of Excellence CALL FOR ENTRIES





- Recognizes NFCA Contractor Members for an exceptional fireproofing project demonstrating innovation & safety.
- Projects submitted should exceed standard fireproofing practices and should be unique and creative, demonstrating excellence in innovation and safety.
- Entry Deadline January 31, 2023
- Go to www.NFCA-online.org for entry form and details.
- Winners announced at the 2023 NFCA Fireproofing Educational Conference



# 2022 Conference **Sponsors**



**NFCA Manufacturer Supplier Member Sponsors** 











**NFCA Associate Member Sponsors** 

















### What Does NFCA Provide?



### NFCA 100-400 Standards for quality and life safety



#### NFCA 100 Standard Practice for the Application of Sprayed Fire-Resistive Material (SFRM)

Scope

This Standard Pra (SFRMs), both dr issues relating to 5 qualifications and contractors, archit approvals that hav the manufacturer s intended to replace

2 Dafaranaa Daaran



NFCA 200 Field Quality Assurance Procedure for the Application of Sprayed Fire-Resistive Material (SFRM)

1 Scope

The application of SFRM requires the contractor to ensure that the materials are installed in accordance with approval agency, manufacturers, and project criteria. This document defines the type of quality assurance procedures and the frequency of the procedure that should be followed by the contractor during SFRM application.

The quality assurance procedures included in this document are:

Determining Acceptable Substrate Surface Conditions Water Control Procedures SFRM Wet Density SFRM Thickness



NFCA 300 Standard Practice for the Application of Intumescent Fire-Resistive Material (IFRM)

- Scope
  - 1.1. This standard covers gu
  - 1.2. This standard covers sa
- 1.3. This standard covers pa 1.4. This standard covers sp owners, construction man
- 2. Reference Documents
- 2.1. ASTM E119 (UL263) : Materials
- 2.2. AWCI Technical Manu Applied Thin-Film Intume 2.3. ICBO ES Reports
- 2.4. ASTM E84 Standard T
- Materials
- 2.5. UL 1709 Standard for I



NFCA 400 Field Quality Assurance Procedure for the Application of Intumescent Fire-Resistive Material (IFRM)

1 Scope

The application of intumescent fire-resistive material requires the contractor to ensure that the product is installed in accordance with product approval agencies', manufacturers' and project criteria. This document defines the type of quality assurance procedures that should be followed by the contractor during intumescent fire-resistive material application.

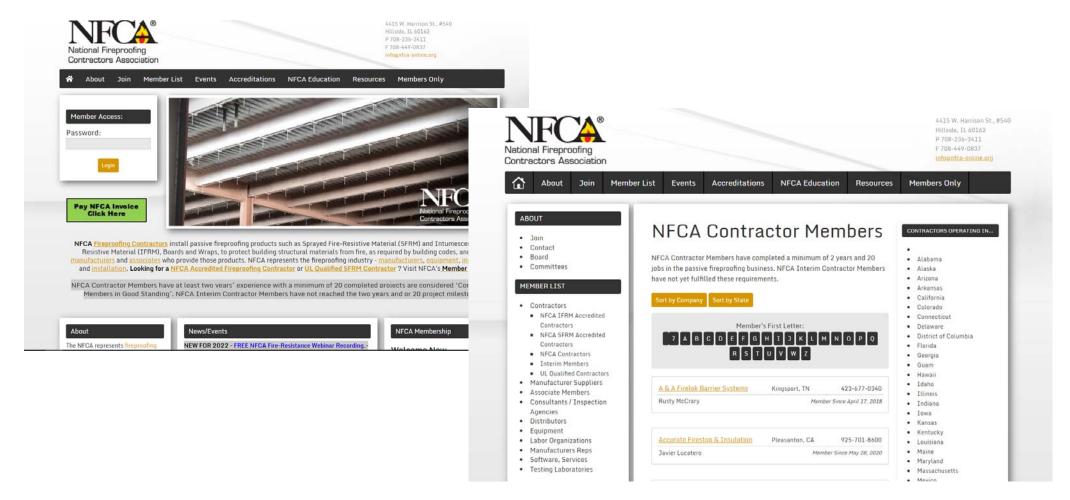
- Reference Documents
- 2.1 Following are documents referenced in this document or that reference this document.
  - 2.1.1. AWCI Technical Manual 12-B Standard Practice for the Testing and Inspection of Field Applied Thin-Film Intumescent Fire-Resistive Materials
  - 2.1.2. UL Fire-Resistance Directory Volume 1, latest edition.
  - 2.1.3. ULC List of Equipment and Materials, Fire-Resistance, latest edition.
  - 2.1.4. Factory Mutual, Approvals Guide, latest edition.
  - 2.1.5. ITS, Directory of Listed Building Products, latest edition.
- B Determining Acceptable Substrate Surface Conditions
- 3.1 General: The surface of the structural substrate must be of acceptable quality and primed with a compatible primer to ensure adequate adhesion of intumescent materials. Criteria for acceptable substrate surfaces include adequate substrate surface temperature, surface for a compatible substrate principle relations for the substrate surface imperature, surface.



### What Does NFCA Provide?



NFCA Website to find Fireproofing Leaders – NFCA-online.org



# What Makes Fire Resistance? UL 263 & ASTM E119 – The Details....

NFCA <u>Fireproofing Contractors</u> install passive fireproofing products such as Sprayed Fire-Resistive Material (SFRM) and Intumescent Fire-Resistive Material (IFRM), Boards and Wraps, to protect building structural materials from fire, as required by building codes, and the <u>manufacturers</u> and <u>associates</u> who provide those products. NFCA represents the fireproofing industry - <u>manufacturers</u>, <u>equipment</u>, <u>inspection</u> and <u>installation</u>. **Looking for a <u>NFCA Accredited Fireproofing Contractor</u>** or <u>UL Qualified SFRM Contractor</u>? Visit NFCA's <u>Member Lists</u>!

#### About

The NFCA represents fireproofing contractors and manufacturers, equipment suppliers, inspection agencies, who install, inspect or provide passive fire protection for structures as required by building codes for the preservation of live

#### News/Events

NEW FOR 2022 - FREE NFCA Fire-Resistance Webinar Recording.Contractor spection agencies, code officials, specifiers, fire insperse get a detailed look at structural fireproofing. Check out standards ASTM E119, UL 263 and CAN/ULC-S-101.

Sting products - in a full scale furnace with loads applied where applicable - proves fire-resistance. FREE NFCA Fire-Resistance
Education PPT Slides

#### NFCA Membership

#### Welcome New Branch Contractor Interim Member

PCI - Phoenix Interior

Not a member?

# NFCA Provides - Technical expertise, Standards and Code Development

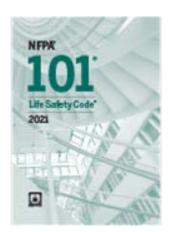


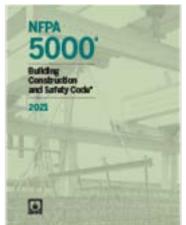


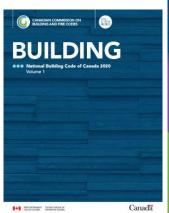














# NFCA's 2020/2021/2022 Accomplishments

- NFCA ICC Code Development Team
  - Bill McHugh, NFCA
  - Rich Walke, Consultant to NFCA
  - Doug Evans, Consultant to NFCA







- NFCA Supporters
  - ICC Colorado Chapter
  - National Association of State Fire Marshals (D. Garriss)
  - Others...

### NFCA's 2020/2021/2022 Accomplishments

- ICC Code Development Process Cycles A and B
  - January Proposals
  - April Hearings
  - July Public Comments
  - Sept/Oct. Public Comment Hearings
  - Nov. Online Governmental Consensus Vote (OGCV)
  - ICC Board, Council Appeals, Review
  - Summer '23 Publish
  - Cycle A completed Dec. 2021; Cycle B Finalizing...

### NFCA's 2020/2021 Successes - Group A

### ICC Code Development Group A Summary

- ASTM E119 / UL 263 Full Scale, with Load Applied
- Clarified Structural Attachments
- Defined IFRM & SFRM
- Defeated Performance Based Fire Design
- Occupiable Rooftops & Fire-Resistance
  - •Table 601, Footnote b Several proposals Some successful, some not
  - •High Rise Redefined to include occ. roofs
  - New definition for Occupiable Roof



### NFCA's 2021/2022 Successes – Group B

### ICC Code Development Group B Summary

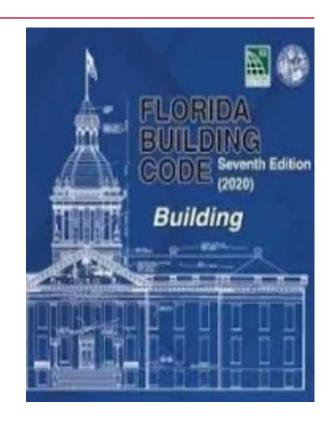
- Minimized damage with respect to Section 104.11
  - Fire Resistance is NOT Eliminated...
- Supported need to protect occupants on Occupiable Roofs
- Helped defeat Performance Based design concept
  - •AISC/AISI, NFCA, Doug Evans, Others...
- Followed International Existing Building Code



# NFCA's 2021/2022/2023 Goals with Florida Building Code

### 2023 Florida Building Code

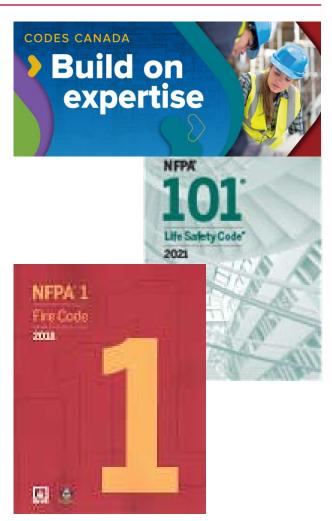
- Will be based on 2021 IBC
- Multiple proposals submitted by NFCA
  - Updated terminology associated with SFRM & IFRM
  - Updated Attachments provision as Approved for 2024 IBC
  - Updated 20' Rule proposals
    - Mezzanines
  - Tried to include Special Inspections of fireproofing based on 2021 IBC requirements – Disapproved
  - •UL Qualified Contractors Disapproved



### NFCA's Goals in Canada

### NBCC – Build it Right

- Fireproofing Special Inspection
- Fire-resistance Rated Roofs
- Installation in accordance with Manufacturers Instructions and Listings
- NFCC Maintain Protection
  - National Fire Code of Canada
  - NFPA 1 PEI Adopted ...
  - NFPA 101 Newfoundland/Labrador
- Educate About Existing Buildings



### **NFCA Membership**



- Thank you NFCA Members You make NFCA programs possible!
- Not a Member? Join Now!
- Annual Contractor Membership \$1495
- NFCA CAP SFRM / IFRM Program
- UL Qualified Fireproofing Contractor Program
- Contact Kriston@nfca-online.org for an application
- NFCA Membership is an investment in your company and your industry



**NFCA Fireproofing Class** 

## NFCA's 2020/2021 Accomplishments

### Standards Development & Other Relationships

- •NFCA @ ASTM
  - •SFRM IFRM
  - Boards/Wraps Inspection Standards
  - •ASTM E119 Fire Tests
- NFCA @ UL/ULC
  - •UL STP 263 Fire Tests
  - •ULC STP ULC-S101 Fire Tests
  - Others
- NFCA @ AISC, AISI
  - More to come...









# NFCA 2023 & Beyond

- Plan for 2027 Codes
  - Long List of Items...
- Inspection Standards
  - SFRM, IFRM, Boards & Wraps
- UL/ULC Standards
- NFCA CAP
  - Education & Exam Material
  - More Contractors
- UL Qualified Fireproofing Contractors
  - More Contractors
- Conferences, Webinars, Speaking, Writing...





### **Manufacturer Sponsor Members**

NFCA Manufacturer GOLD Member Sponsor



NFCA Manufacturer SILVER Member Sponsors





# Thanks for Attending!!!



Bill McHugh / Rich Walke / Carl Fernald National Fireproofing Contractors Association 4415 W. Harrison St., #540 - Hillside, IL 60162 (708) 236-3411 – INFO@NFCA-online.org