

ACI Subcommittee 562F - Fire Meeting Minutes

ACI Fall Convention 2021 Virtual Subcommittee Meeting

October 16, 2021

2:00-4:00 PM (EST)

Attendees:

<u>Committee Members</u>	<u>Guests</u>	<u>Guests</u>
Tarek Alkhrdaji	Nick Carino	Akanshu Sharma
Michael Lee	Mike Orangi	Keith Kesner
Gustavo Tumialan	John Silva	
Kevin Mueller	Ali Abu Baki	
Thomas Gernay	Omer Karagoz	
Nicolas Pinoteau	Chuck Larosche	

1. Committee Chair Alkhrdaji called the meeting to order at 2:00pm.
2. Alkhrdaji called the names of the virtual meeting participants, welcomed everyone, and thanked them for supporting the work of the committee.
3. Agenda reviewed by participants. Agenda approved.
4. Spring convention meeting minutes reviewed by participants. Minutes approved.
5. The Chair presented the latest TOC provided by 562 Chair which shows that the chapter on fire is now Chapter 10

562 Code – Updated TOC

Preface
Chapter 1 – General Requirements
Chapter 2 – Notations and Definitions
Chapter 3 – Referenced Standards
Chapter 4 – Criteria When Using This Code with The International Existing Code (IEBC)
Chapter 5 – Loads, Factored Load Combinations, and Strength Reduction Factors
Chapter 6 – Assessment, Evaluation, and Analysis
Chapter 7 – Design of Structural Repairs
Chapter 8 – Reinforcement Details
Chapter 9 – Durability
Chapter 10 – Fire
Chapter 11 – Materials
Chapter 12 – Construction
Chapter 13 – Quality Assurance
Chapter 14 – Commentary References
Appendix A – Mean Load Method for Assessment

6. Alkhrdaji provided an overview of the progress of the new chapter to attending members:
 - Initial draft balloted at subcommittee in June 2021
 - Revised draft sent to 562 Chair/Secretary 7/28/2020 with request to ballot
 - Ballot initiated at 562 Main on 8/2/2021, closed 9/2/2021
 - 9 Affirmative, 3 Affirmative with comments, 10 Negative, 1 Abstain
 - The ballot met the $\frac{1}{2}$ rule, but not the $\frac{2}{3}$ rule. Therefore, the ballot failed
 - 300+ comments received
7. Committee members discussed the results of the ballot and the main comments received from 562Main committee members. Items discussed included:
 - Main issue – different levels of understanding and experience of main committee members with fire resistance and performance
 - The scope of chapter 10
 - Requirements for performance during fire vs. post fire
 - Addressing Environmental risk, hazardous materials
 - Limited info on fire performance of mechanical and adhesive anchors
8. Committee discussed concerns with reference to “safety, stability, public safety, and health” in current draft. Action item is to all these items as they apply to the entire code not just fire.
9. The scope of the document will be revised to be more specific to three cases:
 - Fire resistance evaluation due to damage to existing cover, as a result of member modification, or due to construction errors.
 - Evaluation of the fire resistance of structures repaired or strengthened using externally applied reinforcement systems.
 - Assessment and repair of fire-damaged structures. Repair design based on residual (fire-reduced) properties of materials that will remain in place.
10. Action items to be complete before the Spring Convention:
 - Action Item (1) - Review revised Ch. 10 draft
 - Verify the revised draft addresses all major negatives and has a good flow
 - Assigned to Michael Lee & Tarek Alkhrdaji
 - Action Item (2) – Notations, definitions, and references
 - Assemble material for the 3 sections above based on latest Ch 10 draft.
 - - Assigned to Gustavo Tumialan
 - Action Item (3) – Develop new section for post-installed anchors
 - Review related ballot negatives and comments
 - Collect info on available literature, test standard, etc.
 - Develop new section along with background info and references
 - Assigned to Nicholas Pinoteau
 - Action Item (4) – Material properties at elevated temperatures / fire
 - Review revised sections
 - Concrete, prestressed and non-prestressed reinf.

- Verify info against proposed changes/draft for 216.1
- Assigned to Kevin Mueller (216 chair) and Thomas Gernay
- Action Item (5) – Prepare New sub-committee Ballot
 - Finalize new Ch.10 draft
 - Issue letter ballot to 562-F
 - Assigned to Tarek Alkhrdaji
- Target is to submit to 562 Committee before Spring 2022

11. Alkhrdaji went over the timeline to complete the new fire chapter as well as the 562 code.

Year	Month											
	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
2020			Development of Chapter content / Initial draft									
2021	Dev. of Initial draft		Conv. & Mtg	Ltr Ballot	Adress comments / Revise draft		Ltr Ballot		Conv. & Mtg	Submit to 562 Review		
2022	Adress comments / Revise draft		Conv. & Mtg	Adress comments / Revise draft		Ltr Ballot		Submit to 562 Review	Conv. & Mtg			
2023			Conv. & Mtg						Conv. & Mtg			
2024			Conv. & Mtg						Conv. & Mtg			
2025	NEW CODE CYCLE											

ACI -562 Code Cycle Schedule												Legend			
Year	Month												Chap 1-4	Staff	
	Jan.	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Letter Ballot	Public Comment	
2019															Start Code Cycle
2020			Convention and Meeting	Draft Revisions Chap 1-4			Ltr Ballot Chap 1-4			Convention and Meeting	562 Editorial Review	TAC Review Chap 1-4			
2021	TAC Review Chap 1-4	Respond to TAC	Convention and Meeting	Ltr Ballot Sub Comm	Public Comment Chap 1-4	Ltr Ballot Sub Comm	Ltr Ballot Sub Comm	PC Response Chap 1-4	Convention and Meeting	562 Editorial Review					
2022			Convention and Meeting		Sub Committee Work & Letter Ballot				Convention and Meeting	Ltr Ballot Sub Comm					
2023	Ltr Ballot Sub Comm		Convention and Meeting	Convention and Meeting	Final Sub-Comm. Ltr Ballot	562-E Editorial Review		Response to Public Comment	Convention and Meeting	TAC Teview					
2024			Convention and Meeting		Public Comment Main Doc				Convention and Meeting	Staff Editing					
2025	Next Code Cycle Begins														

12. Meeting adjourned at 4:05 pm.