



American Concrete Institute
Always advancing

January 6, 2021

MINUTES
TECHNICAL ACTIVITIES COMMITTEE
Virtual Meeting
October 24, 2020
12 – 8 pm

Mission: Manage the affairs of the Institute related to technical committee activities, development of ACI standards, oversight of the technical content of convention programs, and archival and special publications of the Institute including peer-reviewed articles in symposium volumes.

Members: Michael C. Brown, Chair Matthew R. Senecal, Secretary

Theresa M. Ahlborn Timothy S. Folks Robert J. Frosch

Wassim M. Ghannoum Mary Beth D. Hueste Keith E. Kesner

Kamal H. Khayat Carl J. Larosche Tracy D. Marcotte

Barzin Mobasher Anton Schindler Thomas J. Van Dam
(absent)

Staff: Kelly D. Dudley Khaled Nahlawi Michael L. Tholen

Gregory M. Zeisler

Visitors: Ronald G. Burg Clark Branum

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4. TASK GROUPS, LIAISONS, AND SUBCOMMITTEES (*Open Meeting*)

Reference: TAC Agenda, October 24, 2020, Exhibit 4.

REPORT: A current listing of TAC Task Groups/Subcommittees and Representatives to Other Organizations is shown in Exhibit 4. TAC task groups not reported in Section 4 are:

- TAC Awards TG, Item 3.2
- TCM Subcommittee, Item 5.1
- Session Review TG, Item 7.1

ACTION: This item was for information only.

4.1 ACI-ASTM Division of Responsibility for Standards Liaison

References: TAC Minutes, July 12-14, 2017, Item 4.1, page 5, and Exhibit 4.1, page E-1.
TAC Minutes, July 11-13, 2018, Exhibit 4.1.

Members are:

- Matt Senecal (ACI staff)
- Mike Brown (ACI-TAC)

REPORT: At the summer meeting, Senecal reported that ACI has an ongoing meeting with ASTM to discuss potential conflicts. There are currently no action items between ACI and ASTM.

ACTION: This item will only be discussed at the summer meeting, unless TAC action is required.

4.2 ACI/ASCE-SEI Joint Subcommittee

DJ Belarbi was appointed the new chair. He is changing the meeting from spring to fall. ACI 216 and ASCE 29 Fire Code wanted to have a joint code, but at the last meeting it was agreed to have ACI write the code for concrete and have ASCE reference that code.

Members are:

- Khaled Nahlawi (ACI staff)

At the 2018 summer meeting, Brown reported that their last meeting was held at the Spring 2017 Convention in Anaheim. There was poor attendance by joint committee chairs at this meeting. There is little joint committee activity that occurs at ASCE-SEI Structures Congress events. He suggested that each committee identify multiple-ASCE-SEI "liaison" members.

4.2 ACI/ASCE-SEI Joint Subcommittee (Continued)

REPORTS: 1) TAC Liaison Michael Brown is now chair of TAC and has appointed staff member Nahlawi as the liaison for this subcommittee.

2) ACI/ASCE-SEI joint committee, when established, used to meet twice a year at conventions. The meetings were an opportunity for ACI/ASCE-SEI to stay updated on the activities of the joint committees. However, poor attendance suggested that meeting once a year would be more beneficial and would encourage committee chairs to attend. This did not fair much better. Last fall 2019, the chair recommended that future meetings will be virtual; once a year end of January or February. If an issue arises or there is a need for face-to-face meeting, then the committee will schedule a meeting at a future convention.

ACTION: This item will only be discussed at the summer meeting, unless TAC action is required.

CONTACT: Nahlawi

4.3 ISO/TC 71 Liaison

References: TAC Agenda, July 12-14, 2017, Exhibit 4.3, page E-6.
TAC Minutes, July 12-14, 2017, Exhibit 4.3, page E-3.
TAC Agenda, July 11-13, 2018, Exhibit 4.3.
TAC Minutes, July 15-16, 2020, Exhibit 4.3.

The American National Standards Institute (ANSI) represents the U.S. as Secretariat for International Standards Organization (ISO) Technical Committee 71, Concrete, Reinforced Concrete, and Prestressed Concrete. ANSI has delegated the administration of ISO/TC 71 to ACI.

Zeisler reported that on July 9, 2020, ANSI let ISO know we are relinquishing both secretariats. Full report was shown in the Summer Minutes Exhibit 4.3.

ACTION: This item will only be discussed at the summer meeting, unless TAC action is required.

CONTACT: Zeisler

4.4 Strategic Development Council (SDC) Liaison

References: TAC Agenda, July 17-19, 2019, Supplemental Exhibit 4.4.
TAC Minutes, July 17-19, 2019, Exhibit 4.4.

ACTION: This item will only be discussed at the summer meeting, unless TAC action is required.

CONTACT: Larosche

4.5 MOUs with Related Organizations

At the 2010 fall meeting, TAC asked staff to provide a list of Memorandum of Understanding (MOUs) and joint committees. This list is limited to U.S.-based institutions. ACI has over 40 International Partnership Agreements, IPAs, that include government agencies and foreign concrete societies, see <https://www.concrete.org/aboutaci/internationalagreements.aspx> for more information. ACI is the major sponsor for all the joint committees except where noted otherwise.

Organization	Date of MOU	Joint technical committee(s)
ASTM	February 1936	None
ASME	June 1984	359 (ACI minor sponsor)
TMS	October 2006	122, 216
SEI/ASCE	January 2007	334, 343, 352, 421, 423, 441, 445, 447, 550
	April 2008	408, 446
	January 2014	369
	September 2014	335 (ACI minor sponsor)
AISC	January 2007	None
TCA	April 2007	None
CRSI	July 2007	315 (General MOU only)
ASCC	January 2016	117
	April 2018	310
ICRI	June 2017	None
NACE	November 2010	None
PCI	February 2020	319
PTI	June 2020	320

ACTION: Keep this item on future agenda as an information only item.

4.6 Technical Exchanges with International Societies and Partners (TEISP) Task Group

References: TAC Agenda, October 13-14, 2017, Exhibit 4.7, pages E-3 to E-6.
TAC Minutes, July 17-19, 2019, Exhibit 4.6.

The 2020 TEISP Task Group members are:

- Barzin Mobasher (Chair)
- Kamal Khayat
- Mary Beth Hueste
- Wassim Ghannoum

At the 2018 summer meeting, Krstulovic reported that there is a lack of applications coming in from the Technical Cooperation Program. He suggested we advertise in CI.

TAC contacts are asked to approach their committee chairs and be sure they are aware of the Technical Cooperation Program.

Potential committees that may be interested in applying are: 122, 130, 201, 222, 225, 228, 231, 236, 237, 238, 239, 240, 241, 242, 318, 350, 355, 365, 369, 370, 440, 444, 445, 544, 548, 549, 550, and 562.

One applicant, Remy Lequesne, submitted for sponsorship in August 2018. He was approved to attend the *fib* commission meetings on behalf of ACI 408. This is the only application approved so far.

Krstulovic's report was shown in Exhibit 4.4 of the summer minutes.

In January 2020, the Codes and Standards Advocacy and Outreach Committee (CSAO) approved two people for the Technical Cooperation Program.

- Lisa Feldman, *fib*, TG 2.5, London
- Shana Kelley, *fib*, Commission 7, Prague

A concrete international article will be published for the April edition highlighting the program and its recipients.

Mobasher agreed to chair this TG once Krstulovic's TAC term ended after the Spring 2020 TAC Meeting.

At the summer meeting, Mobasher suggested there be more streamlining in the communication with the liasions.

Khayat, Hueste, and Ghannoum joined this TG. The TG should review the FIS for the Technical Cooperation Program to be sure they understand what the resources are meant to accomplish. Senecal posted the FIS so that all of TAC can see it. Marketing for the Technical Cooperation Program could improve (potentially remind the chairs about it at the next chair breakfast).

REPORT: Keep on future agenda. TG will not disband at this time.

ACTION: This item will only be discussed at the summer meeting, unless TAC action is required.

CONTACT: Mobasher

4.7 Codes and Standards Advocacy and Outreach Committee (CSAO)

References: TAC Minutes, July 12-14, 2017, Exhibit 4.8, page E-4.
TAC Minutes, July 12-14, 2017, Exhibit 4.9, page E-5.
TAC Minutes, July 11-13, 2018, Exhibit 4.7.

CSAO is reaching out to state code officials to promote ACI 562. They are also looking at port authorities and owners of LNG tanks for ways to promote ACI 562 and other repair documents.

At the summer meeting, Zeisler reported that CSAO has approved some position statements to assist in code advocacy.

ACTION: This item will only be discussed at the summer meeting, unless TAC action is required.

CONTACT: Frosch

4.8 TAC Repair and Rehabilitation Committee (TRRC)

References: TAC Agenda, July 12-14, 2017, Exhibit 4.10 A, page E-18, and Supplemental Exhibit 4.10 B.
TAC Minutes, July 12-14, 2017, Item 4.10, page 9.
TAC Minutes, July 11-13, 2018, Exhibit 4.9.

TRRC members are:

- Tracy Marcotte (Chair)
- Mike Stenko
- Khaled Nahlawi (ACI staff)

At the 2019 spring TAC meeting, further discussion was had on the direction of the subcommittee. It was noted that maybe the committee could help with research proposals on needs in the repair industry.

Marcotte was appointed the new chair of TRRC.

Although Mike Stenko's term on TAC has expired, he has requested to remain a member of TRRC.

ACTION: This item will only be discussed at the summer meeting, unless TAC action is required.

CONTACT: Marcotte

4.9 TAC Construction Standards Committee (TCSC)

References: TAC Minutes, July 20-22, 2016, Item 4.13, page 13.
TAC Minutes, July 12-14, 2017, Item 4.11, page 10.
TAC Minutes, July 11-13, 2018, Item 4.10.

TCSC members are:

- Chuck Larosche (Chair)
- Tracy Marcotte
- Mike Stenko
- Mike Tholen (ACI staff)

TCSC members have reviewed Chapter 6, Format and Language for Construction Specifications, of 2018 *TCM* and discussed proposed changes at the ACI Fall 2018 Convention. Of importance is the use of Architect/Engineer and Specialty Engineer. Many specifications, such as 301, use Architect/Engineer but since that specification has precast, tilt-up and other items, the contractor may be hiring a specialty engineer who will have responsibilities. Thus one term, Architect/Engineer, may not be sufficient. TCSC will be discussing these items and welcomes any members of the *TCM* subcommittee that would like to be part of this discussion.

TCSC is looking to revise the *TCM* on items related to specifications. They would like a cross-out/underline version of the previous *TCM* to see what changes have been made.

At the 2019 spring TAC meeting, Larosche replaced Suprenant as chair on TCSC.

At the 2019 summer meeting, Larosche reported that the committee had a productive meeting in Quebec.

Mike Stenko requested to remain a member of TCSC.

ACTION: This item will only be discussed at the summer meeting, unless TAC action is required.

CONTACT: Larosche

4.10 Committee Numbering Task Group

References: TAC Agenda, July 15-16, 2020, Item 11.1.
TAC Agenda, July 15-16, 2020, Item 3.3.3.
TAC Agenda, July 15-16, 2020, Exhibit 4.10.
TAC Agenda, October 24, 2020, Supplemental Exhibit 4.10a and 4.10b.

At the 2019 spring TAC meeting, Marcotte requested we change the committee number of Committee 564 to something in the 300s. A task group was formed to evaluate the committee numbering system. The TG members were Marcotte, Larosche, Khayat, and Kahn. Staff member Dudley could assist if needed.

TAC requested assistance from the ACI Marketing Department to determine if there is a significant advantage to renumbering the committees. See report below.

In Item 3.3.3, TAC approved a ballot numbering the Durability Code Committee, ACI 321. In a separate email, more information on the structure of our current code number system was presented. The Board in 1962 reorganized the Technical Committee Structure as follows:

100 Research and Administration—This group contains all research and administrative committees governed by TAC including any committees not logically placed in other subdivisions.

200 Materials and Properties of Concrete—This group contains all committees dealing with materials in concrete and properties of concrete but not with construction or structural design practices of concrete.

300 Design and Construction Practices—This group contains all committees whose missions include design and construction practices. If design includes recommendations or specifications on field procedure the committee is in this group.

400 Structural Analysis—This group contains only those committees dealing with analysis of structures or analysis of design practices. It does not cover construction practices.

Note that the website now states, Concrete Reinforcement and Structural Analysis.

500 Special Products and Special Processes—This group contains all committees dealing with special products used with concrete or special processing of concrete.

Note that the website now states, Special Applications and Repair.

A spreadsheet, Exhibit 4.10, was also distributed that shows the history of the committee numbering system.

REPORT: ACI Marketing was asked to look at the numbering. At first, the numbering itself did not seem to be something Marketing could provide help with but, when mixed with the discussion of grouping codes together, it gave them something to work with.

ACI Marketing presented for TAC on how we may market codes as a suite of codes and questioned does numbering matter.

Renumbering the committees at this time is not critical. Trying to keep new code committees close to the 318, 319, etc., is preferred. The existing code committees have established histories and are currently referenced in external documents. Their number should remain the same. It is agreed that a committee number is not as important to the external users and that better marketing solutions are needed.

4.10 Committee Numbering Task Group (Continued)

TAC agreed that the revised nomenclature and title reorganization presented by ACI Marketing is good, but a TG should review the details. The TG will act in an advisory role to Marketing.

The new TG members are: Frosch (chair), Schindler, Folks, Larosche, and Hueste.

The Document Titles/Committee Numbering Task Group met virtually on August 21, 2020.

ACTION: At the December meeting, TAC authorized staff to move forward with the title structure change as given by the Marketing Department and have the TCM TG start working on associated language for the manual. TAC would like an update from staff at the next TAC meeting. This TG was discharged with the thanks of TAC.

CONTACT: Frosch

5. TECHNICAL COMMITTEE PROCEDURES (*Open Meeting*)

5.1 TCM Subcommittee

References: TAC Minutes, July 17-19, 2019, Item 5.1, page 18.
TAC Agenda, October 18-19, 2019, Item 5.1, page 18, and
Supplemental Exhibit 5.1
TAC Minutes, July 15-16, 2020, Item 5.1, page 20.

The TCM Subcommittee reviews proposed TCM changes and all suggested revisions.

At the 2020 summer meeting, TAC appointed the following TCM Subcommittee members:

- Tracy Marcotte (Chair)
- Kamal Khayat
- Mary Beth Hueste
- Anton Schindler
- Shannon Banchemo (ACI staff)

REPORT: The TCM Subcommittee will review the proposals for revision in October. A TAC ballot will be issued by the end of the year. The changes are minor at this time. TAC may want to consider waiting to publish the TCM until 2022.

Marcotte was asked to report.

ACTION: No TAC action was required.

CONTACT: Marcotte

5.2 Liaisons

Reference: TAC Agenda, October 24, 2020, Supplemental Item 5.2.

The category of membership known as Liaisons was recently redefined to encourage greater participation by international organizations or individuals. Several years have gone by and the implementation of this program has raised several questions with staff.

1. In Section 1.2.3.3 of the *TCM*, it states that, “For a committee to have a liaison member, the committee must have a liaison subcommittee.” This may be logical for large committees that already have many subcommittees but is confusing for small committees that do not intend to make subcommittees. Should this requirement remain in the *TCM*?
2. International organizations often partner with ACI and request that liaisons be placed on ACI committees. It is not clear who approves these requests. Section 1.5.4 of the *TCM* defines the qualifications, requirements, privileges, term, and appointment of a liaison member. In neither the qualifications or appointment section is there a description on how a liaison is elected.
3. Are there any restrictions to how many liaisons there should be from one organization? Section 1.5.4.4 of the *TCM* states that one liaison shall be made for SDC to an ITG but does not state a number for a typical organization.
4. Who determines that a request for a liaison membership is valid? What criteria is used to determine that an organization or individual, foreign, or domestic, is an acceptable liaison?

REPORT: Staff member Senecal was asked to report.

ACTION: This item was deferred until the next regularly scheduled TAC meeting.

6. TAC SUMMER MEETINGS (*Open Meeting*)

6.1 2021 Summer Meeting

REPORT: The 2021 summer TAC meeting will be held at the Coeur D'Alene Resort in Coeur D'Alene, Idaho on July 15-17, 2021. More detailed information will be passed along next Spring.

ACTION: This item was for information only.

6.2 2022 Summer Meeting (*Open Meeting*)

Locations that TAC has previously suggested include: Bar Harbor, ME; Traverse City, MI; Banff, Alberta; Flagstaff, AZ; the U.S. Virgin Islands; and Sonoma County, CA.

REPORT: TAC requested our events staff look into Bar Harbor, ME; Banff, Alberta; and the U.S. Virgin Islands for the 2022 summer meeting.

ACTION: This item was for information only.

7. CONVENTIONS (*Open Meeting*)

7.1 Session Review Task Group

References: TAC Minutes, October 18-19, 2019, Item 7.1, page 20, and Exhibit 7.1, pages E-6 to E-15.
TAC Minutes, March 27-28, 2020, Exhibit 7.1.
TAC Agenda, July 15-16, 2020, Item 7.1, page 21, and Exhibit 7.1, pages E-31 to E-37.
TAC Agenda, October 24, 2020, Item 7.1 page 18 and Exhibit 7.1 pages E-4 to E-10.
TAC Minutes, October 24, 2020, Exhibit 7.1.

The Session Review Task Group reviews all session requests for future conventions. The TG holds a virtual meeting approximately 1.5 weeks after Conventions.

At the 2020 summer meeting, TAC appointed the following TG members:

- Kamal Khayat (Chair)
- Robert Frosch
- Keith Kesner
- Barbara Coleman (ACI staff)

REPORT: The Task Group met November 18, 2020 and reviewed all session requests to date. The Task Group reviewed 30 final requests and 34 preliminary requests. The TG also reviews session requests between the fall and spring conventions, as necessary. The status of all sessions approved is shown in Minutes Exhibit 7.1.

ACTION: This Item was for information only.

8. TECHNICAL COMMITTEE DOCUMENTS (*Open Meeting*)8.1 TAC Document-Related Discussion8.1.1 Document Deadlines for Upcoming TAC Meetings

Activity	ACI Spring Convention Baltimore, MD March 28-April 1, 2021	TAC Summer Meeting Coeur d'Alene, Idaho July 14-16, 2021	ACI Fall Convention Atlanta, GA October 17-21, 2021
Final 30-day letter ballot issued	November 20, 2020	March 12, 2021	June 11, 2021
Committee-approved document submitted to staff for editorial review	December 24, 2020	April 16, 2021	July 16, 2021
Document submitted to TAC and external reviewers	February 19, 2021	June 11, 2021	September 10, 2021
TAC Review Group conference calls	March 17-19, 2021	July 7-9, 2021	October 6-8, 2021
TAC meeting	March 27-28, 2021	July 14-16, 2021	October 15-16, 2021

ACTION: This item was for information only.

8.1.2 Documents Waiting for Committee Response to TAC Comments

Reference: TAC Agenda, October 24, 2020, Exhibit 8.1.2, page E-11 – E-12.

Agenda Exhibit 8.1.2 showed the status of all technical committee documents approved by TAC and waiting for committee response to TAC comments. TAC may withdraw approval if a committee does not respond to TAC comments within two years of TAC approval.

362.2R: Chair Donnelly informed staff on June 5, 2020, that Committee 362 had balloted the responses and would submit soon. Staff asked the chair for a status update on September 8, 2020. The chair responded: "Just checking to make sure the l's are dotted and the t's crossed."

REPORT: Committee 362 submitted its response to TAC comments on October 24, 2020.

ACTION: No TAC action was required.

CONTACT: Kesner

8.1.3 Committee 318 – Request to Approve Code Case 318-19/1

Reference: TAC Agenda, October 24, 2020, Exhibit 8.1.3, page E-12 – E-16.

Committee 318 submitted a code case for TAC approval. TAC was balloted on July 7, 2020. There were two comments and no negatives. The ballot passed. The ballot, code case, and comments were shown in Agenda Exhibit 8.1.3. The correct reference was updated in the errata.

ACTION: This item was for information only.

CONTACT: Frosch

8.1.4 Committee 350 – Resolution of Negatives on Approval of Closure for: “Code Requirements for Environmental Engineering Concrete Structures (ACI 350) and Commentary”

Reference: TAC Agenda, July 15-16, 2020, Exhibit 8.1.5, page E-43 – page E-51.

Committee 350 submitted its response to public comments. TAC was balloted on May 12, 2020. The ballot received several comments and two negatives.

During the 2020 summer meeting, TAC found the negatives persuasive and decided that the committee would need to revise the references. Staff assisted the committee with the revised responses. The chair is currently reviewing the final proof before staff submits the document for publishing.

ACTION: This item was for information only.

CONTACT: Larosche

8.1.5 Committee 310 – Request to Approve Closure for: “Specification for Polished Concrete Slab Finishes” (ACI 310.1)

Reference: TAC Agenda, October 24, 2020, Exhibit 8.1.5, page E-17 – E-62.

Committee 310 submitted its response to public comments. TAC was balloted on July 24, 2020. The ballot received one negative. After requesting clarification from the chair, the TAC member withdrew the negative comment. The ballot passed. The ballot, closure, draft, and comments were shown in Agenda Exhibit 8.1.5.

ACTION: This item was for information only.

CONTACT: Hueste

8.1.6 Committee 301 – Request to Approve Closure for: “Specification for Concrete Construction” (ACI 301)

Reference: TAC Agenda, October 24, 2020, Exhibit 8.1.6, page E-63 – E-241.

Committee 301 submitted its response to public comments. TAC was balloted on July 29, 2020. The ballot received several comments and one negative.

Frosch and Shindler’s comments were editorial and corrected in the closure. The committee answered Kesner’s comments in an email dated August 14, 2020.

Hueste withdrew her negative after the committee agreed to take up the item as new business and add a supplement within one year.

The ballot, closure, draft, and comments were shown in Agenda Exhibit 8.1.6.

Note: This document has since been published.

ACTION: This item was for information only.

CONTACT: Van Dam

8.1.7 Committee 359 – Request to Approve Four Code Cases for: “2017 ASME Boiler & Pressure Vessel Code” (ASME BPVC III.2-2017/ACI 359-17)

Reference: TAC Agenda, October 24, 2020, Exhibit 8.1.7, page E-242 – E-249.

Committee 359 submitted four code cases for TAC approval. TAC was balloted on August 10, 2020. There were several comments and no negatives. The ballot passed. All comments were forwarded to the chair on September 1, 2020. The ballot, code cases, and comments were shown in Agenda Exhibit 8.1.7.

ACTION: This item was for information only.

CONTACT: Larosche

8.1.8 Committee 350 – Comment Resolution on Request to Approve Closure for: “Code Requirements for Seismic Analysis and Design of Liquid-Containing Concrete Structures (ACI 350.3) and Commentary” (ACI 350.3)

Reference: TAC Agenda, October 24, 2020, Exhibit 8.1.8, page E-290 – E-389.

Committee 350 submitted its response to public comments. TAC was balloted on August 11, 2020. The ballot received affirmative with comments from Mary Beth Hueste and Anton Schindler; however, the comments addressed a safety issue. The ballot summary, closure, draft, and comments were shown in Agenda Exhibit 8.1.8.

- ACTION:
- a. TAC determined that Committee 350 must align loading requirements in ACI 350.3 with ASCE 7 before it will be published.
 - b. Senecal is asked to report the TAC action to the committee.

CONTACT: Larosche

8.1.9 TAC Summer Document Review Docket

Reference: TAC Agenda, October 24, 2020, Exhibit 8.1.9, page E-390 – E395.

The list of documents below were balloted for TAC approval on August 14, 2020, with an end date of August 28, 2020. All items passed unanimously with no comments and no negatives. The ballot summary was shown in Agenda Exhibit 8.1.9.

207.1R - Guide to Mass Concrete

237.AR - Factors Affecting Form Pressure Exerted by Self-Consolidating Concrete

364.5T - TechNote: Importance of Modulus of Elasticity in Surface Repair Materials

364.7T - Evaluation and Mitigation of Bruising in Concrete Repair

364.9T - Cracks in Repair

548.9 - Specification for Type ES (Epoxy Slurry) Polymer Overlay for Bridge and Parking Garage Decks

ACTION: This item was for information only.

8.1.10 Committee 359 – Request to Approve Five Code Cases for: “2017 ASME Boiler & Pressure Vessel Code” (ASME BPVC III.2-2017/ACI 359-17)

Reference: TAC Agenda, October 24, 2020, Exhibit 8.1.10.

Committee 359 submitted five code cases for TAC approval. TAC was balloted on September 22, 2020. There were several comments and no negatives. The ballot passed. All comments were forwarded to the chair on October 12, 2020. The ballot, code cases, and comments were shown in Agenda Exhibit 8.1.10.

ACTION: This item was for information only.

CONTACT: Larosche

8.2 Document Reapproval and Withdrawal Requests

8.2.1 Committee 349 – Negative Resolution on Reapproval of: “Guide to the Concrete Capacity Design (CCD) Method-Embedment Design Examples” (ACI 349.2R-07 {Reapproved 2014})

References: TAC Agenda, March 27-28, 2020, Exhibit 8.2.10, page E-38 – E-39.
TAC Minutes, July 15-16, 2020, Item 8.2.3, page 25.

Committee 349 requested reapproval of 349.2R-07 {Reapproved 2014} for three years. TAC was balloted on December 19, 2019. One negative and one comment were received.

During the 2020 spring virtual meeting, TAC asked Larosche to reach out to the committee and ask them:

1. What is the need of the industry for the guide?
2. To whom is the guide directed?

The committee was asked to provide TAC with the details by the 2020 fall convention. TAC would then decide if the committee should revise the guide, or sunset it and incorporate the existing examples into another document.

At the 2020 summer meeting, this item was deferred to the 2020 fall convention.

REPORT: Larosche reported that the committee explained they strongly feel there is a clear distinction of the methods between 349 and 318. They plan to update the design examples after they finish revising their code. Larosche agreed with their position.

ACTION: TAC reapproved the guide for five years.

CONTACT: Larosche

8.2.2 Committee 330 – Resolution of Comments and Negative on Request to Reapprove: “Guide for the Design and Construction of Concrete Site Paving for Industrial and Trucking Facilities” (ACI 330.2R-17) with Minor Changes for Five Years

Reference: TAC Agenda, October 24, 2020, Supplemental Exhibit 8.2.2.

Committee 330 requested reapproval of 330.2R-17 with minor changes for five years. TAC was balloted on October 2, 2020. There were several comments and one negative. The ballot summary, comments, and draft with minor changes shown in ~~strikeout~~ / underline were shown in Supplemental Agenda Exhibit 8.2.2.

- ACTION:
- a. Hueste withdrew her negative.
 - b. TAC granted reapproval with a technical change for five years.

CONTACT: Kesner

8.2.3 Committee 330 – Request to Reapprove: “Specification for Unreinforced Concrete Parking Lots and Site Paving” (ACI 330.1-14) for Five Years

Reference: TAC Agenda, October 24, 2020, Supplemental Exhibit 8.2.3.

Committee 330 requested reapproval of 330.1-14 for five years. TAC was balloted on October 8, 2020. The ballot passed and there were no comments. The ballot summary was shown in Supplemental Agenda Exhibit 8.2.3.

ACTION: This item was for information only.

CONTACT: Kesner

8.3 Requests to Develop New Documents8.3.1 Committee 228 – Ballot Summary on Request to Develop a TechNote: “What Should an Owner or Client Know About Nondestructive Testing (NDT)?”

Reference: TAC Agenda, October 24, 2020, Supplemental Exhibit 8.3.1.

Committee 228 requested permission to develop a new TechNote. TAC was balloted on September 22, 2020. The ballot summary and Document Development Request for were included as Supplemental Agenda Exhibit 8.3.1.

The ballot passed received several comments and one negative. The negative comment was withdrawn after the committee provided further explanation. The remaining comments and notification of TAC action were sent to the chair on October 16, 2020.

ACTION: This item was for information only.

CONTACT: Schindler

8.4 TAC Review Group Composition, Saturday, October 24, 2020

	<u>GoToMeeting/Review Groups</u>	<u>GoToMeeting/Review Groups</u>	<u>GoToMeeting/Review Groups</u>
1-2 PM	<p>506.1R Folks-RC Khayat Larosche RMH</p> <p>https://global.gotomeeting.com/join/178000309</p>	<p>327.XT Khayat-RC Schindler Van Dam JZZ</p> <p>https://global.gotomeeting.com/join/780036109</p>	<p>348.AT Mobasher-RC Larosche Ghannoum RMH</p> <p>https://global.gotomeeting.com/join/883780909</p>
2-3 PM	<p>350.2R Marcotte-RC Mobasher Ghannoum MRS</p> <p>https://global.gotomeeting.com/join/764714653</p>	<p>369.1 Frosch-RC Hueste Kesner KN</p> <p>https://global.gotomeeting.com/join/831382285</p>	<p>377R Ghannoum-RC Larosche Mobasher GMZ</p> <p>https://global.gotomeeting.com/join/833324301</p>
3-4 PM	<p>522R Van Dam-RC Folks Khayat MSS</p> <p>https://global.gotomeeting.com/join/798996493</p>	<p>211.ZT Khayat-RC Schindler Van Dam JZZ</p> <p>https://global.gotomeeting.com/join/234221885</p>	<p>440.YT Schindler-RC Marcotte Van Dam MRS</p> <p>https://global.gotomeeting.com/join/321971477</p>

ACTION: This item was for information only.

8.4.1 Committee Representatives Attending TAC Reviews

Reference: TAC Agenda, October 24, 2020, Supplemental Exhibit 8.4.1.

Committee chairs were invited to meet with the review groups. The list of attendees was shown in Supplemental Exhibit 8.4.1.

ACTION: This item was for information only.

8.5 Documents Reviewed by TAC

Unless TAC decides otherwise, the following actions for approved documents will be taken:

- If a document is a standard, it will be processed using the Normal Standardization Procedure.
- The review group compliance check of the response to TAC comments is waived.

Unless TAC decides otherwise, the following actions for documents **not** approved will be taken:

- Specific comments will be returned to the committee along with the TAC comments.
- If applicable, the existing document (guide / report / TechNote / standard) will be retained in the *Collection* until a revised version is published.

8.5.1 Committee 211 – Proposed New: “TechNote: Creating and Using Water-Cementitious Ratio Curves (Three Point Curves)” (ACI 211.ZT)

Review Group: Khayat; Schindler, Van Dam
TAC Contact: Folks

ACI Committee 211 submitted the proposed new TechNote for TAC approval and further processing. Review Chief Khayat was asked to state the review group’s recommendations for TAC action.

ACTIONS: TAC did not approve the proposed new TechNote, and returned it to the committee to rewrite, rebalot, and resubmit for TAC approval.

Note: The committee was notified of TAC action on October 29, 2020.

8.5.2 Committee 327 – Proposed New: “TechNote: Proper In-Place Density Testing of Freshly Placed Roller-Compacted Concrete by Nuclear Method” (ACI 327.XT)

Review Group: Khayat; Schindler, VanDam
TAC Contact: Khayat

ACI Committee 327 submitted the proposed new TechNote for TAC approval and further processing. Review Chief Khayat was asked to state the review group’s recommendations for TAC action.

- ACTIONS:
- a. TAC approved the proposed new TechNote subject to satisfactory response to TAC comments.
 - b. TAC concurred with the default requirements in 8.5.
 - c. TAC did not recommend an app or design aid be developed from this document.
 - d. TAC did not request a patent statement be added to this document.

Note: The committee was notified of TAC action on October 29, 2020.

8.5.3 Committee 348 – Proposed New: “TechNote: Modified Risk-Based Procedure for Sampling and Assessment of Deficiencies in Post-Tensioned Tendons” (ACI 348.AT)

Review Group: Mobasher; Larosche, Ghannoum
TAC Contact: Larosche

ACI Committee 348 submitted the proposed new TechNote for TAC approval and further processing. Review Chief Mobasher was asked to state the review group’s recommendations for TAC action.

- ACTIONS: TAC did not approve the proposed new TechNote, and returned it to the committee to rewrite, rebalot, and resubmit for TAC approval. Specifically, TAC asked the committee to refocus the document or broaden it to be applicable to other committees.

Note: The committee was notified of TAC action on October 28, 2020.

8.5.4 Committee 350 – Proposed Revisions to: “Concrete Structures for Containment of Hazardous Materials” (ACI 350.2R-04) and Title Change to: “Report on Concrete Structures for Containment of Hazardous Materials” (ACI 350.2R)”

Review Group: Marcotte; Mobasher, Ghanoum
TAC Contact: Larosche

ACI Committee 350 submitted the proposed revised report for TAC approval and further processing. Review Chief Marcotte was asked to state the review group’s recommendations for TAC action.

- ACTIONS:
- a. TAC approved the proposed revised report subject to satisfactory response to TAC comments.
 - b. TAC concurred with the default requirements in 8.5.
 - c. TAC did not recommend an app or design aid be developed from this document.
 - d. TAC did not request a patent statement be added to this document.

Note: The committee was notified of TAC action on October 29, 2020.

8.5.5 Committee 369 – Proposed Revisions to: “Standard Requirements for Seismic Evaluation and Retrofit of Existing Concrete Buildings (369.1-17) and Commentary”

Review Group: Frosch; Hueste, Kesner
Reviewer: Ahmed
TAC Contact: Ghannoum

ACI Committee 369 submitted the proposed revised code requirements for TAC approval and further processing. Review Chief Frosch was asked to state the review group’s recommendations for TAC action.

- ACTIONS:
- a. TAC approved the proposed revised code requirements subject to satisfactory response to TAC comments.
 - b. TAC concurred with the default requirements in 8.5.
 - c. TAC did not recommend an app or design aid be developed from this document.
 - d. TAC did not request a patent statement be added to this document.

Note: The committee was notified of TAC action on October 29, 2020.

8.5.6 Committee 377 – Proposed New: “Report on Integrity and Collapse Resistance of Structural Concrete Floor Systems” (ACI 377R)

Review Group: Ghannoum; Larosche, Mobasher
Reviewers: Hedegaard, Lequesne
TAC Contact: Ghannoum

ACI Committee 377 submitted the proposed new report for TAC approval and further processing. Review Chief Ghannoum was asked to state the review group’s recommendations for TAC action.

- ACTIONS:
- a. TAC approved the proposed new report subject to satisfactory response to TAC comments.
 - b. TAC concurred with the default requirements in 8.5.
 - c. TAC did not recommend an app or design aid be developed from this document.
 - d. TAC did not request a patent statement be added to this document.

Note: The committee was notified of TAC action on October 26, 2020.

8.5.7 Committee 440 – Proposed New: “TechNote: Fire Resistance of FRP-Strengthened Concrete Members” (ACI 440.YT)

Review Group: Schindler; Marcotte, Van Dam
TAC Contact: Larosche

ACI Committee 440 submitted the proposed new TechNote for TAC approval and further processing. Review Chief Schindler was asked to state the review group’s recommendations for TAC action.

- ACTIONS:
- a. TAC approved the proposed new TechNote subject to satisfactory response to TAC comments.
 - b. TAC concurred with the default requirements in 8.5.
 - c. TAC did not recommend an app or design aid be developed from this document.
 - d. TAC did not request a patent statement be added to this document.

Note: The committee was notified of TAC action on October 29, 2020.

8.5.8 Committee 506 – Proposed Revisions to: “Guide to Fiber-Reinforced Shotcrete” (ACI 506.1R-08)

Review Group: Folks; Khayat, Larosche
TAC Contact: Folks

ACI Committee 506 submitted the proposed revised guide for TAC approval and further processing. Review Chief Folks was asked to state the review group’s recommendations for TAC action.

- ACTIONS:
- a. TAC approved the proposed revised guide subject to satisfactory response to TAC comments.
 - b. TAC concurred with the default requirements in 8.5.
 - c. TAC did not recommend an app or design aid be developed from this document.
 - d. TAC did not request a patent statement be added to this document.

Note: The committee was notified of TAC action on October 24, 2020.

8.5.9 Committee 522 – Proposed Revisions to: Fe“Report on Pervious Concrete” (ACI 522R-10{11})

Review Group: Van Dam; Folks, Khayat
Reviewers: Crouch, Jaycox
TAC Contact: Kesner

ACI Committee 522 submitted the proposed revised report for TAC approval and further processing. Review Chief Van Dam was asked to state the review group’s recommendations for TAC action.

- ACTIONS:
- a. TAC approved the proposed revised report subject to satisfactory response to TAC comments.
 - b. TAC concurred with the default requirements in 8.5.
 - c. TAC did not recommend an app or design aid be developed from this document.
 - d. TAC did not request a patent statement be added to this document.

Note: The committee was notified of TAC action on October 26, 2020.

9. SPECIAL PUBLICATIONS (*Open Meeting*)

9.1 SPs in Progress

References: TAC Minutes, March 27-28, 2020, Item 9.1, page 40, and Exhibit 9.1, pages E-8 to 9.
TAC Agenda, July 15-16, 2020, Item 9.1, page 27, and Exhibit 9.1, pages E-74 to E-75.
TAC Agenda, October 24, 2020, Item 9.1, page 30 and Exhibit 9.1, pages E-396 to E-397.

The status of SPs previously approved by TAC was shown in Agenda Exhibit 9.1.

ACTION: No TAC action was required.

9.2 Proposed ACI Special Publications (SPs)

9.2.1 Final Request for SP – Examples for the Design of Reinforced and Prestressed Concrete Members Under Torsion

Reference: TAC Agenda, October 24, 2020, Item 9.2.1, page 30 and Exhibit 9.2.1, pages E-398 to E-399.

Exhibit 9.2.1 was a web ballot issued August 17, 2020, ending August 31, 2020.

Out of the 12 eligible voting members 11 voting members voted affirmative with no comments, 1 voted affirmative with comments (Hueste).

REPORT: Staff forwarded the comment to the SP editor and notified the editor of the ballot results. This item passed.

ACTION: This item was for information only.

9.2.2 Final Request for SP – Recent Developments in High Strain Rate Mechanics and Impact Behavior of Concrete

Reference: TAC Agenda, October 24, 2020, Supplemental Item 9.22 and Supplemental Exhibit 9.2.2.

Exhibit 9.2.2 was a web ballot issued September 29, 2020, ending October 12, 2020.

Out of the 13 eligible voting members 8 voting members voted affirmative with no comments, 3 voted affirmative with comments (Brown, Frosch, and Kesner), and 2 did not return (Mobasher and Van Dam).

REPORT: Staff forwarded the comments to the SP editor and notified the editor of the ballot results. This item passed.

ACTION: This item was for information only.

9.2.3 Final Request for SP – Field Applications of Non-Conventional Reinforcing and Strengthening Methods for Bridges and Structures

Reference: TAC Agenda, October 24, 2020, Supplemental Item 9.2.3 and Supplemental Exhibit 9.2.3.

For final TAC approval, the committee must submit a final SP request to the TAC Secretary, including the completed SP, the table of contents, preface, all papers, the reviews for all papers with the reviewers' names, and the copyright transfer forms. Staff has completed a review and has initially verified that the submittal is complete. TAC reviews the final documentation and verifies that procedures have been followed.

ACI Committee 345 requested final approval for the SP titled, "Field Applications of Non-Conventional Reinforcing and Strengthening Methods for Bridges and Structures." Staff has completed a review of the final submittal and has verified that the submittal is complete. The final request was shown in Supplemental Exhibit 9.2.3.

REPORTS: 1) Staff created a TAC ballot November 4th with a canvassing date of November 18th.
2) Staff forwarded the comments to the SP editor and notified the editor of the ballot results. This item passed.

ACTION: This item is for information only.

10. TECHNICAL COMMITTEE AFFAIRS (*Open Meeting*)

10.1 Technical Committee Chair Breakfast Meeting

The chair breakfast is held on the Monday morning of each ACI convention week. ACI technical committee chairs are expected to attend this event to hear updates on important recent developments and to meet fellow chairs, TAC members, and ACI staff. The presentations will be uploaded to the ACI website under the Document Development Guidance page.

REPORT: The Technical Chair Breakfast Meeting has been cancelled until further notice. Vital information will be passed along via TAC Newsletter.

A new "Meeting Balloting Tool" has been added to the committee web sites. It should be functional on the website by October 5. Once live, staff and TAC Chair to host a web meeting for committee officers to demonstrate the balloting tool, tentatively scheduled for October 12. There will be demonstration videos available on the committee websites and the event app.

Questions about the upcoming convention will be answered at the October 12 meeting as well.

This meeting was held as planned.

ACTION: This item was for information only.

CONTACT: Brown

10.2 Leadership Training Workshop (TAC, EAC, and CPC)

Leadership Training Workshops are generally offered twice a year at ACI Headquarters and are open to all committee officers. Staff extended the invitation to subcommittee chairs.

Due to many officers having been through the training already, staff decided to only offer this training once in 2020.

The 2020 training was held at ACI HQ on February 24-25, 2020.

REPORT: The 2021 will be scheduled for February 2021. Videos will be created by staff.

ACTION: This item was for information only.

CONTACT: Senecal

10.3 Mission Changes

10.3.1 Committee 310 Mission Change Request

Reference: TAC Agenda, July 17-19, 2019, Exhibit 10.3.2.

On April 1, 2019, staff received a form from Committee 310 Chair Clark Branum requesting a mission change. The committee has already balloted and approved this change request.

Current Mission: “Develop and report information on the application of artistic finishes of cast-in-place concrete.”

Proposed Mission: “Develop guidelines, standards, and educational materials for the application of decorative finishes to concrete.”

An administrative web ballot was issued on April 2, 2019 and closed May 2, 2019 and passed with several negative votes. The comments are shown in Exhibit 10.3.2 and were passed along to Chair Branum. Chair Branum was aware that TAC would discuss their negatives at their summer meeting and will pass along their suggestions to him.

During its summer 2019 meeting, TAC did not approve their proposed mission change request.

TAC revised the mission to be:

“To develop and report information for the application of decorative finishes to concrete.”

At the 2019 Fall Convention, ACI 310 rejected the proposal from TAC. Their counter proposal is:

“Develop guidelines, standards, and education materials for the application of decorative finishes to concrete.”

REPORT: Chair Branum joined the virtual TAC meeting to discuss Committee 310’s mission statement.

ACTIONS: a. TAC and Chair Branum agreed to the following mission:

“Develop and report information for the application of decorative concrete finishes.”

b. Chair Branum will present this new mission statement to his committee for their agreement.

CONTACT: Hueste

11. POLICIES AND PROCEDURES (*Open Meeting*)

11.1 New Code Committees

References: TAC Minutes, March 27-28, 2020, Item 3.3.3.
TAC Agenda, October 24, 2020, Supplemental Exhibit 11.1a, b, and c.

A meeting with the chairs of 201, 350, and 440 was held at ACI Headquarters on March 5, 2020 to discuss the issues experienced by committees that write both guides and codes. Attendees were Doug Hooten (Chair 201), Larry Sutter (VM 201), Reza Kianoush (Chair 350), Will Gold (Chair 440), Maria Lopez (Secretary 440), Larry Kahn, Chuck Larosche, Ron Burg, Mike Tholen, and Matt Senecal. The Board and TAC have been discussing formation of new code-writing committees whose mission is focused on one issue. The discussion with the leadership of the 201, 350, and 440 were centered around the following key points and concepts.

Talking points:

- It is difficult for technical committees to write codes and maintain the supporting document
- Balance requirements are essential for codes and specifications, but don't necessarily create idea committees for guides and reports
- Small committees can react to comments in a timelier manner, which is important, due to deadlines, for public comment responses.
- Codes and specifications require more disciplined writing. This is easier with fewer people.
- Committee attention isn't spread among several documents.
- Sunsetting gives committees a hard stopping point and incentive to reach consensus.
- Sunsetting disrupts development of guides and reports.

General Concept of New Code Committees:

- ACI 318 contains the backbone information for concrete design
- New code committees will cover focused topics or industries
- Keep committee membership to 15 or less
- Committees will be "sunset" committees
- Committees will be placed on a schedule
- Codes produced will be marketed as a suite of codes

ACI 201 leadership was excited by the new approach, as they were already having difficulty getting a code started in the larger committee. ACI 350 leadership stated that they are finishing a code cycle and now would be a good time for a good review of this concept. ACI 440 leadership felt that their current structure can handle the work load, but could see the difficulty of managing the committee if TAC requires them to sunset on a determined set of years.

The durability code was moved from ACI 201 to a new code writing committee, ACI 321, at the 2020 spring meeting.

11.1 New Code Committees (Continued)

At the summer meeting, TAC approved the adoption of the general approach to creating new code committees. A Task Group was formed to work on the details of the concept. The work will include an outline or plan for the management of code committees that can be communicated to the code committees and new language for the TCM. The TG members are: Kesner (Chair), Ghannoum, Mobasher, and Marcotte.

At the fall meeting, Brown suggested the outline shown in Supplemental Exhibit 11.1a, b, and c be balloted by TAC so the TAC Members can provide feedback. The feedback from the ballot will be discussed as the TAC meeting in December.

The feedback from the ballot is shown in Exhibit 11.1. The general comments are in the beginning, Line number "0". There are a variety of ideas and many new questions. The remaining comments are related to the proposal itself.

ACTIONS: The following questions needed to be answered so that we may provide adequate direction to the chair candidates for ACI 350 and 440. The plan is to send TAC's decision on how code committees will operate in the future to the candidates. We should have specific direction for both 350 and 440. The candidates will be interviewed at the Winter TAC virtual meeting, see Exhibit 2.2.a.

1. TAC agreed that code committees should have a scheduled beginning and ending date at which time the code will be published and the committee discharged.
2. Code committees are restricted to writing only a code document.
3. Code committees would be stand alone from the main committee. A suggestions is that they be called an "AFFILIATED CODE COMMITTEE". For example, 440 AFF. TAC would appoint the chair.They all operate under the same rules.
4. ACI 350 should be rolled into new structure ASAP. 350 as a technical committee will be independent from the code committee. The intent needs to be clear and that there will be a new code committee and this will be discussed in the interview. This interview can take place in February at the next virtual TAC meeting.
5. ACI 440 should transition gradually because they are not finished with their work on sheets and bars. Committee will continue working on what they are doing. Letters needs to be written and explain the intent. Interview for the main chair should take place in February.
6. ACI 349 transition should be gradual. 349 as a technical committee will be independent from the code committee. The intent needs to be clear and that there will be a new code committee and this will be discussed in the interview. This interview can take place in February at the next virtual TAC meeting.

Motion: Future code committees will be standalone independent committees and may be given a new number or a number that is affiliated with an existing technical committee.

TAC voted and unanimously passed the motion.

CONTACT: Kesner

11.2 Incrementally Updated Documents

References: TAC Minutes, October 12-13, 2018, Item 8.1.8.
TAC Agenda, March 22-23, 2019, Exhibit 11.2.
TAC Agenda, July 15-16, 2020, Item 8.1.3, and Supplemental Exhibit 8.1.3.
TAC Agenda, October 24, 2020, Supplemental Exhibit 11.2.

The ACI Executive staff has recently attended the *digitalNow* conference in Austin. One idea from the conference that may change how our committees operate is continuous document updating. The basic idea is that revisions to a document will be published as ballots are completed. Challenging problems are: interrelated ballots, TAC review, standardization, and delivery of this information.

The key benefit is having the latest information in the hands of the user. The current process bundles information by time limit requirements. This process incapsulates information that may have been vetted years before it reaches the public. This has created the unfortunate situation that some information is obsolete before it is published. Continuous updating can remove this problem.

A task group was formed to discuss this topic and possible committees that TAC might want to have try this. The TG members are Marcotte, Khayat, Mobasher, and Goodwin.

Feedback from TAC members:

- Many TAC members felt it would be a large burden on TAC to review every ballot.
- It could be confusing if the ballot under review was part of a series of changes; would not have full picture for review.
- Kahn suggested we get feedback from our committee chairs before we try to make too many decisions on this item.

The general feedback from the chair breakfast in Las Vegas:

- Should be optional; it would probably not work for all documents
- Would TAC consider only reviewing portions of documents?

11.2 Incrementally Updated Documents (*Continued*)

Other interesting feedback:

- People don't like reading long documents
- Smaller documents are more manageable
- Offer an online subscription that is searchable
- Offer online editing

TAC has agreed to partially review one document since we started this discussion. In the TAC Minutes, October 12-13, 2018, Item 8.1.8, TAC granted approval for ACI 201.2R to be balloted on an ongoing basis. TAC did not set any rules on how this process would work. TAC should discuss a possible process. The biggest hurdle foreseen for this new direction is how TAC will review changes.

Tholen presented a new product: ACI 318 PLUS. It is a searchable online product that ties many resources to the provisions of the code. This product could be expanded to present changes to documents as ballots are approved. It could become part of our document development web pages or it may be shared with a wider audience. It has the benefit of seeing the original document, the cross-out/underline version, and the final version with a click of a button. When a committee has decided they are done with their last ballot, staff can immediately send it out for review or publishing.

TAC Contact Van Dam to ask Committee 201 to provide feedback on this process and report back to TAC this fall.

1) Van Dam reported that he had emailed the chair of 201 and the committee is progressing. The first chapter is in progress and they plan to move forward in the next year.

2) Process:

- The document will be published after each submission. Changes to the document may be isolated or throughout the document. It is anticipated that a committee is working on a small amount of work. The work, for example, may be on a single chapter or a concept that affects many chapters.
- TAC will be able to see the document in its entirety. TAC agrees to keep its review only to the content related to the submittal. If TAC finds that significant portions of the document are affected outside of the content of the submittal, the submittal will be returned for revision, reballoting, and resubmittal.
- A preface that describes the change shall be provided by the committee to help the public understand what has changed in this incremental improvement.

In Spring 2020, TAC voted to approve the process.

In Item 8.1.3, Committee 221 wanted a chance of having their document continuously updated. See Item for TAC comments on ballot.

11.2 Incrementally Updated Documents (*Continued*)

Another point of discussion is the publishing of the continuous update. ACI hopes to eventually place all technical committee documents in the 318+ system. This means that ACI will soon have the ability to show living documents. Though this may not work for code writing committees (assuming), it may be an excellent benefit for those members on non-code writing committees.

At the summer meeting, TAC discussed the pros and cons of continuous document development. The general conclusion of the discussion is that an incremental development may be more appropriate. The greatest concern is that a document may never get a comprehensive revision, if it is only updated with small improvements. It may be that a committee should submit a plan of how their document will eventually be completely revised. As part of the plan, there could be incremental publications that allow for information to be more quickly released to the public.

TAC formed an Incremental Document Development Task Group that includes: Hueste (Chair) Folks, Ghannoum, Schindler, and Senecal (staff).

The task group met virtually on September 29, 2020. An outline of their discussion is shown in Supplemental Exhibit 11.2.

ACTION: Brown suggested the outline shown in Supplemental Exhibit 11.2 be balloted by TAC so the TAC Members can provide feedback.

CONTACT: Hueste

11.3 Coordination of Information between Committees

References: TAC Agenda, July 15-16, 2020, Item 3.3.3.1.
TAC Agenda, October 24, 2020, Supplemental Exhibit 11.1a, b, and c.

The creation of the new code committees has brought forward the issue of coordination between committees. Several ongoing concerns and new concerns have been raised:

- How will these new code committees coordinate with 318 or each other in the future?
- If current committees like 350 are divided, how will the code committee communicate with the technical committee on that topic?
 - Should there be liaisons between the two?
 - Do liaisons really work?
 - Should there be a code change proposal process where technical committees can bring items to the code committee? Can a member from the technical committee be a temporary liaison so that the code change proposal has a champion?
- Should TAC set up TAC subcommittees whose task it is to make sure committees are communicating? Would these subcommittees decide which information can reside where or settle disagreements?
 - See Item 3.3.3.1, TAC thought at the 2020 spring meeting that just such a committee should be made.
 - Does the role of TRRC change?
 - Do other TAC Subcommittees need to be made?

The New Code Committee Task Group will create a framework/process and eventually a code coordination committee may be established.

ACTION: This item was deferred until a TAC meeting in 2021.

CONTACT: Kesner

Session Requests for Baltimore, MD—Spring 2021

Sponsoring Committee Numbers	Title	Preliminary Request Received	Preliminary Number of Sessions Requested	Preliminary Number of Sessions Approved/ Approval Date		Final Request Received	Final Number of Sessions Requested/ Presentations (Papers) Requested		Final Number of Sessions Approved/ Presentations (Papers) Approved		Final Approval Date	Session Moderators
				Number Approved	Date Approved		Sessions	Papers	Sessions	Papers		
134 365 222	Service Life of Concrete Infrastructure: Constructability, Construction Practices & Maintenance Efforts	4/3/20	1	1	4/21/20	Moved to Atlanta 10/30/20	N/A	N/A	N/A	N/A	N/A	Vosahlik
211 238 304	How to Get Modern Concrete Pumped to the Right Floor	3/29/19	1	1	4/18/19	10/25/19	1	6	1	6	11/12/19	Nazarenko Feys
216	The Concrete Industry in the Era of AI	3/31/20	1	1	4/21/20	10/21/20	1	6	1	6	11/18/20	Naser
222 364	Integration of Innovative Techniques and Approaches for Optimum Concrete Structure Rehabilitation	3/29/19	1	1	4/18/19	10/25/19	1	6	1	6	11/12/19	Lapointe
223	Shrinkage Compensating Concrete Design and Research	3/27/20	1	1	4/21/20	Moved to Atlanta per phone call on 11/4/20	N/A	N/A	N/A	N/A	N/A	Ramseyer
232	The Future of Coal Combustion Products in Concrete	3/31/20	2	2	4/21/20	10/22/20	2	10	2	10	11/18/20	Diaz-Loya Rajabipour
237 238	Form Pressure Exerted by Self-Consolidating Concrete	4/3/20	1	1	4/21/20	10/30/20	1	6	1	6	11/18/20	Khayat
237 309	Is SCC Consolidation-Free?	3/23/19	1	1	4/18/19	9/13/19	1	5	1	5	11/12/19	Ozyildirim
238 239	Unlocking Workability Issues of UHPC	3/24/19	2	2	4/18/19	10/2/19	2	10	2	10	11/12/19	Wang Khayat
238 564	Adjusting Workability of Successful 3D Concrete Printing	4/3/20	2	2	4/21/20	10/30/20	2	14	2	14	11/18/20	Kawashima
239 544	UHPC – Innovations in Practical Applications	4/3/20	2	2	4/21/20	10/30/20	1	6	1	6	11/18/20	Wille
240 236	Raw Natural Pozzolans in Concrete	12/11/19	1	1	4/21/20	9/20/20	1	6	1	6	11/18/20	Juenger

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241	Smart Concrete, New Functionalities and Nanotechnology	3/29/19	2	2	4/18/19	10/30/19	2	13	2	13	11/12/19	Konsta Taha Lu
305 546	Impact of Hot Weather Conditions on Concrete Repairs	10/19/19	2	2	11/12/19	11/6/20	2	8	2	8	11/18/20	Harris
325	Concrete Pavement Design and Construction Special Session Honoring Dr. Shiraz Tayabji	4/3/19	2	2	4/18/19	4/2/20	2	8	2	8	4/21/20	Smith
341	Multi-Hazard Assessment of Reinforced Concrete Structures	3/28/19	1	1	4/18/19	10/25/19	1	5	1	5	11/12/19	Gencturk
341	Exploiting SSI Effects in Structural Design of Bridges	3/30/19	1	1	4/18/19	10/28/19	1	7	1	7	11/12/19	Pantazopoulou Mackie
341 441	Seismic Repair/Retrofit/Strengthening of Bridges at the Element or System Level	4/3/20	2	2	4/21/20	Moved to Atlanta per e-mail on 11/2/20	N/A	N/A	N/A	N/A	N/A	Alam
342 228	Fusion of Visual and Nondestructive Techniques for Bridge Evaluation	3/26/20	1	1	4/21/20	10/30/20	1	4	1	4	11/18/20	Olson
343	Innovations in Bridge Deck Design and Materials	3/29/19	1	1	4/18/19	Moved to Atlanta per e-mail on 11/4/20	N/A	N/A	N/A	N/A	N/A	Nassif Nowak
370	Recent Developments in High Strain Rate Mechanics and Impact Behavior of Concrete	12/24/18	2	2	4/18/19	10/20/19	2	12	2	12	11/12/19	Jacques Chorzepa
439	21 st Century Steel Reinforcement: Simply Superior	3/25/19	1	1	4/18/19	10/22/19	1	6	1	6	11/12/19	Huza Mize

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Exhibit 7.1

Session Requests for Baltimore, MD—Spring 2021

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				Number Approved	Date Approved		Sessions	Papers	Sessions	Papers		
506 134	Constructability and Shotcrete Construction in the Windy City	3/29/19	1	1	4/18/19	10/25/19	1	6	1	6	11/12/19	Connolly
515	Assessment and Surface Preparation of Concrete Surfaces for Protective System	3/12/20	1	1	4/21/20	10/27/20	1	5	1	5	11/18/20	Harrer
564 544	Rethinking Reinforcement for 3-D Printed Cementitious Composites	4/3/20	2	2	4/21/20	10/30/20	2	8	2	8	11/18/20	Kreiger
Totals			36	36			29	157	29	157		

Exhibit 7.1

Session Requests for Atlanta, GA—Fall 2021

Sponsoring Committee Numbers	Title	Preliminary Request Received	Preliminary Number of Sessions Requested	Preliminary Number of Sessions Approved/ Approval Date		Final Request Received	Final Number of Sessions Requested/ Presentations (Papers) Requested		Final Number of Sessions Approved/ Presentations (Papers) Approved		Final Approval Date	Session Moderators
				Number Approved	Date Approved		Sessions	Papers	Sessions	Papers		
120	Concrete Through the Ages	11/2/20	1	1	11/18/20							Borgerson
130	Adapting and Reuse of Concrete Structures	10/23/20	1	1	11/18/20							Kramer
134 117	Tolerance Considerations to Enhance Constructability	10/29/20	1	1	11/18/20							Cornell
134 365 222	Service Life of Concrete Infrastructure: Constructability, Construction Practices & Maintenance Efforts	4/3/20	1	1	4/21/20	Moved from Baltimore 10/30/20						Vosahlik
223	Shrinkage Compensating Concrete Design and Research	3/27/20	1	1	4/21/20	Moved from Baltimore 11/4/20						Ramseyer
236 241	Graphene-Based Admixtures in Concrete	10/28/20	1	1	11/18/20							Shi
236 242	Applications of Alternative Cements	10/27/20	1	1	11/18/20							Burriss
237	Practical Implementation of Self-Consolidating Concrete	10/25/20	1	1	11/18/20							Harris
240	Calcined natural Pozzolans, Including Calcined Clays	10/25/19	2	2	11/12/19							Kurtis
241 239 544	UHPC-Hot Topics	10/30/20	3	3	11/18/20							Wille
325	Sustainability Considerations for Concrete Pavements	10/28/20	1	1	11/18/20							Sullivan
342	Drones and High-Resolution Tools in Bridge Evaluation and Condition Assessment	10/28/20	1	1	11/18/20							Myers
343 342	Live Load Distribution on Concrete Bridges: Design, Evaluation, Construction, and Innovation	10/30/20	2	2	11/18/20							Yazdani
345	Durability, Service Life, and Long-Term Integrity of Concrete Materials, Bridges, and Structures	12/19/19	2	2	4/21/20	9/16/20	2	14	2	14	11/18/20	Kim Shi Pantelides

Exhibit 7.1

Session Requests for Atlanta, GA—Fall 2021

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				Number Approved	Date Approved		Sessions	Papers	Sessions	Papers		
364	Technical Session to Honor Fred Goodwin: Introducing New Technotes – Part 1 and 2	3/26/20	2	2	4/21/20	10/30/20	2	11	2	11	11/18/20	Van Ocker Jiang
376	Concrete Design and Construction for LNG and other RLG Containment	11/9/20	1	1	11/18/20							Pawski
440	Research, Development and Applications of FRP Reinforcements	3/25/20	4	4	4/21/20 (3) 11/18/20 (1)							Masmoudi
441	Recent Advances in the Behavior of Reinforced Concrete Columns: A Session Honoring the Memory of Dr. Asad Esmaeily	3/31/19	1	1	4/18/19	9/28/19	1	6	1	6	11/12/19	Rasheed Al-Rahmani
445	Effective Use of the Strut-and-Tie Method Per ACI 318-19	10/29/20	2	2	11/18/20							Novak Klein
544	Case Studies of Fiber Reinforced Concrete for Optimized Construction	10/28/20	1	1	11/18/20							Bonakdar
555	Concrete with Recycled Materials	10/30/20	2	2	11/18/20							Mahgoub
562	5 th ACI/JCI Joint Seminar – Performance-Based Modeling of Reinforced Concrete Structures	10/25/19	4	2	11/12/19	Requested during Fall 2020 TAC Meeting to move to Orlando						Kesner
564 209	Computer Simulations and Analytical Methods for Concrete 3D-Printing	10/30/20	1	1	11/18/20							Cusatis
Totals			37	33			5	31	5	31		

Exhibit 7.1

Session Requests for Orlando, FL—Spring 2022

Sponsoring Committee Numbers	Title	Preliminary Request Received	Preliminary Number of Sessions Requested	Preliminary Number of Sessions Approved/ Approval Date		Final Request Received	Final Number of Sessions Requested/ Presentations (Papers) Requested		Final Number of Sessions Approved/ Presentations (Papers) Approved		Final Approval Date	Session Moderators
				Number Approved	Date Approved		Sessions	Papers	Sessions	Papers		
345	Developments, Applications, and Case Studies in UHPC for Bridges and Structures	9/18/20	2	2	11/18/20							Kim Nolan Nanni
Totals			2	2								