
AGENDA

TAC Specifications Committee Wednesday, November 11, 2009, 7 – 10 AM Room: Studio 10 Marriot, New Orleans, LA

Voting Members:

Michael Sprinkel, Chair
Matthew R. Senecal, Secretary
Jon B. Ardahl
William L. Barringer
Nicholas J. Carino
Jeffrey W. Coleman

D. Gene Daniel
Charles S. Hanskat
Alfred L. Kaufman, Jr.
W. Calvin McCall
Aimee Pergalsky
Arthur T. Weiss, Jr.

Associate Members

Karl J. Bakke
James R. Baty
Daniel P. Dorfmueller
Dale Fisher
Sidney Freedman

Terence C. Holland
Kenneth G. Kazanis
William H. Oliver, Jr.
Michael S. Stenko

1. Call to Order and Introduction of Members and Visitors

1.1 Approval of Agenda

ACTION: Does TSC approve the agenda for this meeting?

1.2 Approval of Minutes

ACTION: Does TSC approve the minutes of the 2008 fall meeting in St. Louis?

2. ACI Specification Manual (ASpM)

2.1 2008 version of ASpM

The 2008 version of the ASpM is available on the ACI website at:
<http://www.concrete.org/technical/technical.htm>

ACTION: No action is required.

2.2 Revisions to the 2008 ASpM

a) At the 2009 spring meeting, a new punch list was presented for the next revision of the ASpM (Attachment 2.2). A few assignments were given

Report: 1) Art Weiss is asked to report on CSI for style for “lists”

2) Nick Carino is asked to report on revisions to 3.4.2, 3.4.3, and 3.4.4 referring to 5.3.12.

ACTION: Are there any additional items for the punch list?

b) TSC asked at the last meeting that TAC be made aware of their concern regarding the ownership of the ACI Specification Manual and the ability to provide rationale for differences between the TSC and TAC. This concern was reported to TAC. TAC stated that they consider input from TSC to be valuable and necessary, but the ASpM is a TAC document and TAC will review and ballot all proposed changes by TSC.

The combining of the TAC manuals has been put on hold for now, so the committee should proceed to maintain the current ASpM.

c) A new item for consideration comes from a comment that TAC made in its review of the revised ACI 301. The comment is regards to the use of Architect/Engineer and is repeated below.

The term Architect/Engineer is no longer commonly used in code documents (IBC) or in supporting standards (ASCE 7 or ACI 318); rather it is either Licensed or Registered Design Professional. The committee should review the use of Architect/Engineer and replace it with either the Owner or the LDP, as appropriate. The concept of Engineer of record is now referred to as the LDP in Responsible Charge. The concept of a specialty engineer (such as works with a precaster) is now referred to as an LDP.

In current draft of 301:

Architect/Engineer—Architect, Engineer, architectural firm, engineering firm, or architectural and engineering firm issuing Contract Documents or administering the Work under Contract Documents, or both.

Licensed Design Engineer—an individual representing the Contractor who is licensed to practice engineering as defined by the statutory requirements of the professional licensing laws of the state or jurisdiction in which the project is to be constructed.

Proposed replacement definitions:

Licensed Design Professional in Responsible Charge—A licensed design professional engaged by the Owner to provide the building official with sealed Contract Documents, and is responsible to review and accept submittals related to those Contract Documents.

Licensed Design Professional—an individual who is licensed to practice structural engineering as defined by the statutory requirements of the professional licensing laws of the state or jurisdiction in which the project is to be constructed.

Examples of how definitions would be used in 301:

Example of change to Owner:

1.6.1 General—Concrete materials and operations may be tested and inspected by the Owner as work progresses. Failure to detect defective work or material will not prevent rejection if a defect is discovered later nor shall it obligate the ~~Architect/Engineer~~ Owner for final acceptance.

Example of change to LDP:

2.1.2.1.e Reshoring and backshoring procedure—When reshoring or backshoring is required or permitted, submit procedure, including drawings, before use, sealed by a ~~licensed design engineer~~ Licensed Design Professional.

Example of change to LDP in Responsible Charge:

3.3.2.7 Splices—Make splices as indicated on the project drawings unless otherwise permitted. Mechanical splices for reinforcement not shown on the project drawings shall not be used unless accepted by the ~~Architect/Engineer~~ Licensed Design Professional in Responsible Charge.

ACTION: Is any action required?

d) TAC has raised a concern that the current use of checklists in the ACI reference specification is too confusing. It is TAC's opinion that the specification manual is not clear on how to write checklist items or how to invoke checklist items within the provisions of the specification. The specifications that TAC have recently received are not consistent with respect to this matter.

TAC has asked ACI staff to review the ACI specification format and provide alternatives if appropriate. Matt Senecal presented an alternative format at the 2009 fall TAC meeting. TAC has asked Senecal to present this alternative to TSC for review and comment.

ACTION: Is any action required?

3. Status of Specification Activities

3.1 Updates

BACKGROUND: TSC members are assigned as liaisons to ACI committees known to be working on or planning to work on a specification. Committee members are appointed as associate members of TSC (unless the TSC liaison is also a member of the committee). Attachment 3.1 summarized ACI specification activities and current membership assignments.

Committee 117: Liaison Charles Hanskat. Associate Member Eldon Tipping.
Committee 301: Liaison Jon Ardahl.
Committee 305: Liaison Gene Daniel.
Committee 306: Liaison Gene Daniel.
Committee 308: Liaison Aimee Pergalsky.
Committee 311: Liaison Alfred Kaufman.
Committee 330: Liaison Art Weiss. Associate Member Ken Kazanis.
Committee 336: Liaison Art Weiss. Associate Member Billy Oliver.
Committee 346: Liaison Alfred Kaufman.
Committee 350: Liaison Jon Ardahl.
Committee 423: Liaison Charles Hanskat. Associate Member: TBD.
Committee 440: Liaison Nick Carino.
Committee 506: Liaison Jon Ardahl.
Committee 522: Liaison Aimee Pergalsky. Associate Member Dale Fisher.
Committee 548: Liaison Art Weiss. Associate Member Mike Stenko.
Committee 563: Liaison

The procedures for obtaining approval to start writing specifications, for committee liaisons, and for final approvals of specifications are in Section 3.2.1.2 of the 2008 TCM, and in Section 1.3 of the 2008 ASpM.

REPORT: At the 2009 spring meeting, TSC asked that all TSC liaisons to other committees should be made associate members of those committees to gain access to their websites. This action has been completed.

ACTION: TSC Liaison and Associate Members are asked to report their respective committees' activities and discuss any actions required of TSC.

4. Specification Review

4.1 Current Review Activity

BACKGROUND: Section 1.3 of the ASpM explains the TSC review process for ACI specifications. The intent is for TSC to review new and revised specifications.

ACI 117 and 301:

Committee 301 balloted the new 117-09 and decided not to adopt it in 301-09. The reason is that 301 believes a specification should not have a commentary. 117 includes a side-by-side commentary, approved by TAC. It is likely that there will be a public comment on 117 recommending the removal of the commentary while augmenting the specification by including relevant information from the commentary.

A compromise solution was suggested to move the commentary to the back of the document. However, TSC feels that this would only make it less user friendly while maintaining the problem of including a commentary with a specification. If the commentary is needed to interpret the specification then the information should be written in the specification. It is permissible to include figures in the specification.

TSC decided to establish an informal Task Group, McCall, Tipping, Carino, Sprinkel, and one member of 117, to revise 117 so that no commentary is required for interpretation of the specification. This TG will schedule a (web) meeting before May 1, 2009.

REPORT: TAC at their 2009 summer meeting has determined that commentary is allowed. TAC also objects to ACI 301 refusing to adopt the latest version of another ACI document. During the TAC review of ACI 301, a comment was given to the committee to reference the latest standard.

ACTION: Is any action required?

ACI 304:

The document was changed from a Guide Specification to a guide to writing a specification. It was decided to remove this committee from the list.

REPORT: It still seems relevant to monitor this document as it will be a guide on how to write a specification. TSC is asked to reconsider removing this committee from the list.

ACTION: Is any action required?

ACI 503 and 548:

ACI 503 is being merged with ACI 548. Status of all 503 documents will be reviewed by ACI 548. Designations left as 503 in the Attachment 3.1 Table for now.

ACTION: No action.

ACI 563:

Committee is in process of reviewing 301 and assigning work for sections; producing outline; will coordinate with 301; 563 has not requested approval to write specification from TSC, however, when 563 was created by TAC, it was given marching orders to write the specification. 563 will provide the outline to TSC by the next meeting.

ACTION: Is any action required?

4.2 Revised Review Procedures

Considering the new *TCM* and *ASpM* procedures for reviews of submitted specification to be parallel with the TAC review, the informal monitoring of specifications in development is very important. Depending on the complexity of the specification, the TSC review group may need to be created in advance. The development needs to be followed up through the liaison who may suggest the early creation of the RG.

The procedures for obtaining approval to start writing specifications, for committee liaisons, and for final approvals of specifications are in Section 3.2.1.2 of the *2008 TCM*, and in Section 1.3 of the *2008 ASpM*.

Some members of TSC do not agree with the TAC procedure to have TSC review specifications parallel with the TAC review as there are more than format issues. However, TSC liaison can bring on-going specifications to TSC for review at any time.

ACTION: Is any action required?

5. Requests for New Specifications

ACTION: Are there any new specification requests?

6. Planning

6.1 TSC Mission (For Information)

The TSC mission is: “Assist the technical committees in preparing and maintaining specifications in the correct format and language, and manage specification development by the Institute.”

ACTION: Is any action required?

6.2 Goals for 2009 (For Information)

TSC goals on the website:

- 1) Review committee requests to develop new specifications and make recommendations to TAC.
- 2) Coordinate specifications that overlap ACI code-dependent specifications such as ACI 301.
- 3) Maintain database of ACI specifications.
- 4) Assist TCM Task Group in developing chapters on specification writing and maintain punch list of needed revisions;
- 5) Review new and revised specifications as requested by TAC.

ACTION: Is any action required?

7.0 ACI Specification Policy

7.1 e-Specifications

ACI staff, TSC, and ACI 301 Chair McCall have been discussing the idea of preparing an “active” electronic specification that can be tailored to a specific project and included directly in the project specifications. Action on this item is tabled until additional direction is provided by ACI.

A Task Group (TG-7.1) (Ardahl, Hanskat, and Weiss) is in place to advise staff and to review the e-specification draft.

REPORT: Senecal to present mock-up.

ACTION: Is any action required?

8. Training on Specification Writing

TSC members conducted a technical session at the spring 2007 convention in Atlanta. It was very successful and generated a lot of interest, although the attendance was not high.

A discussion evolved on the type, frequency, mandatory attendance, and other issues of training for specification writing committees and liaisons. However, no guarantee can be provided that a future document will be approved by TAC after committee representatives have attended such training. A motion was made and then withdrawn after committee agreed that Charles Hanskat, Al Kaufman, and incoming chair Michael Sprinkel will draft a proposal on training. It will be web balloted before the next meeting.

REPORT: Task group is asked to report.

ACTION: Is any action required?

9. Next Meeting

TSC meetings are held on Wednesdays, 7 – 10 am during ACI Conventions.

ACTION: Is any action required?

10. Adjournment

ATTACHMENTS:

Attachment 1.3 — TSC Roster with Contact and Assignment Information

Attachment 2.2 — ACI Specification Module of *TCM* – Punch List

Attachment 3.1 — ACI Specifications Activity Database

COPIES:

TSC Members

ACI TAC members

ACI Engineering staff

**Attachment 1.3
TSC Roster with Contact and Assignment Information**

November 2008			
Name	Assignment	Telephone No.	E-Mail Address
TSC Officers and TAC Contacts			
Michael Sprinkel	Chair , 563, TG-4.1, TG-8	434/293-1941	michael.sprinkel@vdot.virginia.gov
Matthew Senecal	Secretary (NV)	248/848-3727	matthew.senecal@concrete.org
David Bird	TAC Contact	816/231-7400	dbird@structural.net
David Sanders	Chair TAC	775/784-4288	sanders@unr.edu
Daniel W. Falconer	Secretary TAC	248/848-3726	daniel.falconer@concrete.org
Voting Members			
Jon B. Ardahl	301, 350, 506, TG-2.2, TG-7.1.	785/887-9991	ard00097@netzero.net
William L. Barringer		505/293-8368	joy2Bill@aol.com
Nicholas J. Carino	440, TG-2.2 Chair.	301/975-6063	ncarino@nist.gov
Jeffrey W. Coleman		952/841-0200	jwcoleman@chvv.com
D. Gene Daniel	305, 306, 423	479/636-1856	dgenedinc@aol.com *
Charles S. Hanskat	117, 423, 503, TG-7.1, RG-548.	847/972-3146	chanskat@ctlgroup.com
Alfred L. Kaufman, Jr.	346, 551	925/866-2780	alfredl.kaufman@cemex.com
W. Calvin McCall	TG-2.2	704/392-1506	wcmccall@concretees.com
Aimee Pergalsky	308, 522	216/491-9265	geoaimee@aol.com
Arthur T. Weiss, Jr.	330, 336, 533, 548, TG-7.1.	770/860-1942	aweiss7501@aol.com
Associate Members			
Karl J. Bakke	117	303/674-2290	karl.bakke@kalmanfloor.com
James R. Baty	551	319/895-6911	jbaty@cfawalls.org
Daniel P. Dorfmueller	303	513/933-0489	dorf@go-concepts.com
Dale Fisher	522	770/619-9962	dalefisher@pervious.com
Sidney Freedman	533	312/786-0300	sfreedman@pci.org
Terence Holland	304	440/834-1697	concrete.terry@att.net
Kenneth G. Kazanis	330	248/354-9050	ken.kazanis@lafarge-na.com
William H. Oliver, Jr.	336	281/293-2644	billy.oliver@conocophillips.com
Michael S. Stenko	548	914/636-1000	mstenko@transpo.com

*Text e-mail messages only; mail hard copies of any attached files



Attachment 2.2
ACI Specification Module of TCM – Punch List

Section	Item	Recommendation
0.0	Style of “lists”	Identify items regardless where they end up being in the manual. Review ACI Style Manual and CSI for proper format. This is purely editorial.
1.2.1	submittals checklist	Change to read: “a list of mandatory or optional submittal items in an ACI Reference Specification.”
1.3.4	Editorial	Change to read: “...for TAC review in accordance with...”
2.3.3.4	Cross-referencing	For cross references, use just number without section, article etc.
3.3.2	Note to Specifier G4	Delete: “Each technical Section of”.
3.4.2	Mandatory Requirements Checklist	A “trigger” language is recommended in the text to point to a Mandatory Requirements Checklist item: “...as specified in Contract Documents”.
3.4.3	Optional Requirements Checklist	A “trigger” language already exists in the text to point to an Optional Requirements Checklist item: “...unless otherwise specified”.
3.4.4	Submittals Checklist	A “trigger” language already exists in the text to point to a Submittals Checklist item: “Submit...”.
5.3.5	Section 5.3.5 discourages the use of “Approved” and recommends “Accepted” or “Reviewed” instead.	This was found in order and no change to this provision is recommended. The term approved would take responsibility away from the contractor and shift it to the Architect/Engineer. The other two terms do not relieve the contractor from his responsibility.

Attachment 3.1
ACI SPECIFICATIONS ACTIVITY DATABASE

Comm. No.	Title	Specification	Previous / Next	Comment/ Action	TSC Liaison	Nonvoting TSC Members
117	Tolerances	Specifications for Tolerances for Concrete Construction and Materials	117-06 / Public	Public comment closed on 5/17/09. Committee working on responses.	Hanskat	Bakke
301	Specifications for Concrete	Specifications for Structural Concrete	301-05 / TAC	Responding to TAC comments.	Ardahl (M)*	Not needed
305	Hot Weather Concreting	Specification for Hot Weather Concreting	305.1-06 / Committee	No new ballots.	Daniel	Not needed
306	Cold Weather Concreting	Standard Specification for Cold Weather Concreting	306.1-90 /	No new ballots. Working on guide.	Daniel	Not needed
308	Curing Concrete	Standard Specification for Curing Concrete	308.1-98 / Public	Public comment closed on 9/17/09. Committee working on responses.	Pergalsky (M)*	Not needed
311	Inspection of Concrete	Specification for Ready-Mixed Concrete Testing Services	New / Done	Adoption date 10/06/09.	Kaufman	
330	Concrete Parking Lots and Site Paving	Standard Specification for Plain Concrete Parking Lots	330.1-03 / Committee	No new ballots. Working on in task group.	Weiss	Kazanis
336	Footings, Mats, and Drilled Piers	Specification for the Construction of Drilled Piers	336.1-01 / Committee	No new ballots. Working on guide.	Weiss	Oliver
346	CIP Pipe	Specification for Cast-in-Place Concrete Pipe	346-01 / Public	Public comment closed on 4/17/09. Committee working on responses.	Kaufman (M)*	Not needed
350	Environmental Structures	Specification for Environmental Engineering Concrete Structures	New / TAC	In TAC review.	Ardahl (M)*	Not needed

Comm. No.	Title	Specification	Previous / Next	Comment/ Action	TSC Liaison	Nonvoting TSC Members
423	Prestressed Concrete	Specification for Unbonded Single-Strand Tendon Materials and Commentary	423.7-07 / Committee	Published in 2007. Committee is working on other documents at this time.	Hanskat	Needs an appointment
423	Prestressed Concrete	Test Method for Bleed Stability of Cementitious Post-Tensioning Tendon Grout	New / Public	Public comment closed on 3/17/09. Committee working on responses.	Hanskat	Needs an appointment
423	Prestressed Concrete	Specification for Installation of Unbonded Single-Strand Tendons and Commentary	New / Committee	Working on draft. No ballots.		Needs an appointment
440	Fiber Reinforced Polymer Reinforcement	Specification for Construction with Fiber Reinforced Polymer (FRP) Reinforcing Bars	440.5-08 / Committee	Published in 2008. Committee is working on other documents at this time.	Carino	
440	Fiber Reinforced Polymer Reinforcement	Specification for Carbon and Glass Fiber Reinforced Polymer (FRP) Bar Materials for Concrete Reinforcement	440.6-08 / Committee review	Published in 2008. Committee is working on other documents at this time.	Carino	
503	Adhesives in Concrete	Standard Specification for Bonding Concrete, Steel, Brick and Other Materials to Hardened Concrete with a Multi-Component Epoxy Adhesive	503.1-92 / Moved to 548	ACI 503 was disbanded at the 2009 spring TAC meeting. All documents have been moved to 548.	Hanskat	
503	Adhesives in Concrete	Standard Specification for Bonding Plastic Concrete to Hardened Concrete with a Multi-Component Epoxy Adhesive	503.2-92 / Moved to 548	ACI 503 was disbanded at the 2009 spring TAC meeting. All documents have been moved to 548.	Hanskat	
503	Adhesives in Concrete	Standard Specification for Producing a Skid Resistant	503.3-92 /	In public comment period, ends on	Hanskat	

Comm. No.	Title	Specification	Previous / Next	Comment/ Action	TSC Liaison	Nonvoting TSC Members
		Surface on Concrete by the Use of a Multi-Component Epoxy System	Public	12/17/09.		
503	Adhesives in Concrete	Standard Specification for Repairing Concrete with Epoxy Mortars	503.4-92 / Moved to 548	Format revision overdue. TSC is recommending removal from the MCP. Committee intends to revise it per minutes from LA.	Hanskat	
503	Adhesives in Concrete	Specification for Crack Repair by Epoxy Injection	503.7-07 / Moved to 548	Published in 2007. ACI 503 was disbanded at the 2009 spring TAC meeting. All documents have been moved to 548.	Hanskat	
506	Shotcreting	Specifications for Shotcrete	506.2-95 / Committee	Last ballot of revised specification ended 10/30/09; failed. Committee working on comments.	Ardahl (M)*	Not needed
522	Pervious Concrete	Specification for Pervious Concrete Pavement	522.1-08 / Committee	Published in 2008. Committee is working on their guide at this time.	Pergalsky	Fisher
548	Polymers and Adhesives in Concrete	Specifications for Latex Modified Concrete (LMC) Overlays	548.4-93 / TAC	Working on responses to TAC comments.	Weiss	Stenko
548	Polymers and Adhesives in Concrete	Specification for Type EM (Epoxy Multi-Layer) Polymer Overlay for Bridge and Parking Garage Decks	548.8-07	Published in 2007.	Weiss	Stenko
548	Polymers and Adhesives in Concrete	Specification for Type ES (Epoxy Slurry) Polymer Overlay for Bridge and Parking Garage Decks	548.9-08	Published in 2008.	Weiss	Stenko

Comm. No.	Title	Specification	Previous / Next	Comment/ Action	TSC Liaison	Nonvoting TSC Members
548	Polymers and Adhesives in Concrete	Specification for Type (MMS) Methyl Methacrylate Slurry Polymer Overlays for Bridge and Parking Garage Decks	548.X / TAC	Working on responses to TAC comments.	Weiss	Stenko
548	Polymers and Adhesives in Concrete	Specification for Polymer Concrete and Composite Underground Utility Enclosures	New / Committee	TAC approved at 2009 spring meeting. Does not conflict with ASTM. Will work with ASTM once specification is developed.	Weiss	Stenko
563	Specifications for Repair of Structural Concrete in Buildings	Specification for Repair of Existing Structural Concrete	New / Committee	Committee is starting work on a specification to go with the 562 code requirements document.		

*(M) indicates that the TSC liaison is also a member of the committee and an associate member from that committee is not necessary