



Concrete — A Century of Innovation

AGENDA

TAC Specifications Committee

Sheraton Boston Hotel
Gardner A
Tuesday, September 30, 2003
7:00 to 10:00 AM
Boston, MA

Voting Members:

Nicholas J. Carino, Chair
Todd R. Watson, Secretary (Non-voting)
Jon B. Ardahl
William L. Barringer
William C. Bretnall
Jeffrey W. Coleman
D. Gene Daniel

I. Leon Glassgold
Ronald L. Hollrah
Alfred L. Kaufman, Jr.
W. Calvin McCall
Myles A. (Tony) Murray, TAC
Contact
Aimee Pergalsky
Arthur T. Weiss, Jr.

Associate Members

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

Kenneth G. Kazanis
William H. Oliver, Jr.
Robert J. Ryan
Michael S. Stenko

1. Call to Order and Introduction of Members and Visitors

1.1 Approval of Agenda

ACTION: Are any changes to the agenda required?

1.2 Approval of Minutes

ACTION: Does TSC approve the Minutes of the 2003 spring meeting in Vancouver?

1.3 Membership Report

REPORT: Tony Murray is the new TAC Contact Member. There are no other changes to the membership since the Vancouver meeting. The current TSC roster is shown as Exhibit 1. Members are asked to review the roster and inform Secretary Watson of any corrections.

2. ACI Specification Manual (*ASpM*)

The 2002 version of the *ACI Specifications Manual* is available on the ACI Web site at: http://www.concrete.org/COMMITTEES/com_forms.htm

2.1 Punchlist

As a result of the TAC review and comments received during the balloting of the last revision, new items to be considered in the next revision have been identified. A punch list of these items was approved at the Phoenix meeting and is attached as Exhibit 2.1.

ACTION: Volunteers will be assigned to develop draft language to address these items.

2.2 New Items

2.2.1 Forward F.4—During the spring TAC review of ACI 301, it was noted that there were discrepancies between the concrete sampling requirements in ACI 318 and ACI 301, with ACI 301 requiring more frequent sampling. ACI 301 justified having the more stringent requirement on the basis of statement F4 in the Forward to Checklists given in the *ASpM*: “*Building codes set minimum requirements necessary to protect the public. ACI Specification ____ may stipulate requirements more restrictive than the minimum. The Specifier shall make adjustments to the needs of a particular project by reviewing each of the items in the checklists and including those the Specifier selects as mandatory requirements in the Project Specification.*” This was discussed at the summer TAC meeting and TAC agreed that this section of the Forward should be revised to read: “*Building codes set minimum requirements necessary to protect the public. ACI Specification ____ may ~~stipulate~~ suggest requirements more restrictive than the minimum in the Optional Checklists. The Specifier shall make adjustments to the needs of a particular project by reviewing each of the items in the checklists and including those the Specifier selects as mandatory requirements in the Project Specification.*”

ACTION: Does TSC concur with the recommendation? (see punch list)

2.2.2 “Architect/Engineer”—A TAC member noted that the *ASpM* uses “Architect/Engineer” while ACI 116R uses “architect-engineer.”

ACTION: Does TSC concur with the usage in 116R? Should the *ASpM* be revised accordingly, or should Committee 116 be requested to change the terminology?

3. Status of Specification Activities

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). Exhibit 3 summarizes ACI specification activities and current membership assignments.

REPORT: TSC Liaison and Associate Members are asked to report their respective committees' activities, update Exhibit 3, and discuss any actions required of TSC.

Committee 117: Liaison Tony Murray. Associate Member Karl Bakke.

Committee 301: Liaison Jon Ardahl.

Committee 303: Liaison Alfred Kauman. Associate Member Dan Dorfmueller.

Committee 305: Liaison Aimee Pergalsky. Associate Member Robert Ryan.

Committee 306: Liaison Aimee Pergalsky. Associate Member Robert Ryan.

Committee 308: Liaison Aimee Pergalsky.

Committee 330: Liaison Art Weiss. Associate Member Ken Kazanis.

Committee 336: Liaison Art Weiss. Associate Member Billy Oliver.

Committee 346: Liaison Alfred Kaufman.

Committee 347: Request for a specification pending.

Committee 350: Liaison Jon Ardahl.

Committee 423: Liaison Gene Daniel.

Committee 503: Liaison Tony Murray.

Committee 506: Liaison Jon Ardahl.

Committee 530: Liaison pending committee decision on future of specification.

Committee 533: Liaison Art Weiss. Associate Member Sidney Freedman.

Committee 548: Liaison Art Weiss. Associate Member Mike Stenko.

Committee 551: Liaison Alfred Kaufman. Associate Member Jim Baty.

4. Specification Review

Background: Section 1.3.3 of the *ASpM* explains the TSC review process for ACI specifications. The intent is for TSC to review new and revised documents when they are being balloted by the committees. The process has yet to be implemented fully. ACI staff will be made aware of all specification-writing committees so that TSC reviews will be triggered when documents are being balloted.

4.1 ACI 308.1 Specification for Curing Concrete

Minor changes to the specification were submitted to TAC for review at the Boston meeting. The document was not circulated to TSC before being submitted to TAC. A cursory review by TSC Chair Carino led to the decision that the document needs revision

to comply with the *ASpM* and should not be reviewed by TAC until changes are made. Carino appointed a review group of Daniel, Pergalsky, and Weiss. Carino will compile the review comments and submit them to the ACI 308 Chair.

REPORT: Carino will report.

4.2 ACI 305 Specification for Hot Weather Concreting

TSC members were asked to review the latest draft of the specification as part of the TAC review.

REPORT: Does anyone have a comment on the document that should be addressed by the *ASpM*?

5. Requests for New Specifications

Staff has received no new requests.

6. Planning

6.1 TSC Mission

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.”

6.2 Goals for 2003

- Develop plan for implementing TAC mandate to revise the approach for developing the Institute’s specification for structural concrete;
- Maintain database of ACI specification activities;
- Review draft specifications in a timely manner;
- Continue development of training program for writing ACI specifications;
- Maintain punch list for future revision to the *ACI Specifications Manual*;
- Develop proposal for ACI e-Specifications.

ACTION: For information only; no action required

7.0 ACI Specification Policy

7.1 Background

TAC has delegated to TSC the task of managing specification development by the Institute. According to the TSC procedures, this involves the following activities:

- Review committee requests to begin the development of new specifications;
- Identify needs for new specifications; and
- Eliminate conflicts among ACI Specifications.

Before the Detroit meeting, TAC Chair Dolan asked TSC to develop a draft ACI policy to solve the current problem of overlap between ACI 301 and other ACI Specifications dealing with structural concrete. At the Detroit meeting, two approaches were considered.

- Make ACI 301 the only specification on all aspects of structural concrete (Option 1).
- Reduce the scope of ACI 301 to core provisions and prepare additional single-item specifications to support the core provisions (Option 2).

The pros and cons of the two approaches were discussed and a letter ballot of TSC was issued with a closing date of June 7, 2002. The results were 7 for Option 1, 1 for Option 2, and 5 no returns.

The TSC ballot summary was forwarded to TAC who reviewed the issue at their July 2002 meeting. TAC decided that ACI 301 should be organized following Option 1 of the ballot. TAC assigned TSC the task of organizing and moderating a workshop of the affected ACI committees. The workshop's goal was to define how Committee 301 and the related expert committees would work together to develop an enhanced specification for structural concrete. A summary of the workshop discussion was included as part of the Vancouver meeting minutes.

At the conclusion of the workshop, there was little time remaining to reach a consensus on an action plan and timetable. Carino appointed a task group of Pergalsky (Chair), Murray, Daniel, and Dorfmüller to provide recommendations on the following issues:

- Should ACI Committee 301 be retained or reorganized under a new number to make it clear that the new specification on structural concrete is different from existing ACI 301?
- Which committees should have voting membership on the structural concrete specification committee?
- Which ACI single-item specifications should be dropped and assimilated by the new specification on structural concrete?
- Which ACI single-item specifications should not be eliminated and how can conflicts be prevented?

At the summer 2003, TAC discussed this topic and the following actions were noted in the TAC meeting minutes:

“a. TAC reaffirmed its previous decision that ACI 301 should contain all ACI specification information that relates to construction within the scope of ACI 318.

b. President Izquierdo stated that the revised ACI 301 [would] facilitate ACI creating an electronic-format specification.

c. TAC suggested that, if a committee wants a single-item specification on a particular application not within the scope of ACI 318, the committee [could] do that.”

REPORT: TG Chair Pergalsky is asked to report.

ACTION: What does TSC recommend to TAC?

7.2 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. At the Phoenix meeting, a task group composed of Art Weiss (Chair), Jon Ardahl, Al Kaufman, Jeff Coleman, and Jim Shilstone was asked to discuss alternative approaches and prepare a draft plan for discussion.

ACTION: In Vancouver, this item was tabled indefinitely until the ACI 301 specification coordination issue is resolved

8. Workshop on Specification Writing

Art Weiss has been working on developing presentation materials for an upcoming training session on writing specifications. The focus will be on discussing how an ACI specification fits into the project specification and a review of the main features of the *ACI Specifications Manual*.

REPORT: Art Weiss is asked to report.

ACTION: Are we ready to request a session at a future convention?

9. New Business

10. Next Meeting

The next TSC meeting will be held on Wednesday morning at the 2004 Spring Convention in Washington DC.

11. Adjournment

EXHIBITS:

- Exhibit 1 — TSC Roster with Contact and Assignment Information
- Exhibit 2.1 — *ASpM* Punch List
- Exhibit 3 — ACI Specifications Activity Database

Copies:

José M. Izquierdo, President, ACI
Anthony E. Fiorato, Vice President, ACI
James R. Cagley, Vice President, ACI
Terence C. Holland, Past President, ACI
William R. Tolley, Executive Vice President, ACI
Sharon L. Wood, Chair, ACI TAC
Daniel W. Falconer, Secretary, ACI-TAC

**Exhibit 1
TSC Contact Information**

March 2003			
Name	Assignment	Telephone No.	E-Mail Address
TSC Officers and TAC Contacts			
Nicholas J. Carino	Chair	301/975-6063	ncarino@nist.gov
Todd R. Watson	Secretary TSC (NV)	248/848-3728	todd.watson@concrete.org
Om P. Dixit	Chair TAC	307/766-5255	om.dixit@dmjmharris.com
Daniel W. Falconer	Secretary TAC	248/848-3726	daniel.falconer@concrete.org
Voting Members			
Jon B. Ardahl	301, 350, 506	785/887-9991	ard00097@netzero.net
William L. Barringer		505/293-8368	joy2Bill@aol.com
William C. Bretnall		216/241-7078	bbretnall@gba-engineers.com
Jeffrey W. Coleman		952/841-0200	jwcoleman2@cs.com
D. Gene Daniel	305, 423	479/636-1856	dgenedinc@aol.com *
I. Leon Glassgold		410/355-4390	102126.1102@compuserve.com
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W. Calvin McCall		704/392-1506	wcmccall@bakerconcrete.com
M. A. (Tony) Murray	TAC Contact, 117, 503	303/688-8244	tmurray@restruaction.com
Aimee Pergalsky	306, 308	216/496-9265	geoaimee@aol.com
Arthur T. Weiss, Jr.	330, 336, 533, 548	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	513/539-4043	dorf@jostinconcrete.com
Sidney Freedman	533	312/786-0300	sfreedman@pcinst.com
Kenneth G. Kazanis	330	248/354-9050	ken.kazanis@lafargecorp.com
William H. Oliver, Jr.	336	713/207-4379	billy.oliver@centerpointenergy.com
Robert J. Ryan	305, 306,	216/839-7500	rryan@mbt.com
Michael S. Stenko	548	914/636-1000	mstenko@transpo.com
*Text e-mail messages only; mail hard copies of any attached files			

Exhibit 2.1

2002 ACI Specification Manual Punch List of Future Changes

Section	Issue	Action
2.3	TAC 7/02: Clarify if all topics in Section 2.3 are required.	
3.3 Definitions	TAC 7/02: Including definitions for all terms in a spec that are not in 116R could be overwhelming; however, a clear statement that significant, important, pertinent, or, etc, terms should be defined will be difficult. Also, I am not sure what is meant by terms used in unique ways.	
	Consider recommending a structured format for checklist items: <ul style="list-style-type: none"> • Statement of requirement • Guidance to specifier • References 	
	Define specification formats <ul style="list-style-type: none"> • Product • Prescription • Performance 	
	Recommended format for specifying performance criteria.	
4.4	Should guide specifications include mandatory and optional checklists? A critical review of Chapter 4 is needed.	
3.4.1	Wording in F4 encourages conflict between codes and specifications.	Revise second sentence to read: <i>ACI Specification _____ may stipulate suggest requirements more restrictive than the minimum in the Optional Requirements Checklist.</i>
1.2	“Architect/Engineer” is not in agreement with ACI 116R, which uses “architect-engineer.”	

Exhibit 3

ACI SPECIFICATIONS ACTIVITY DATABASE

Comm. No.	Title	Specification	Status	Comment/ Action	TSC Liaison	Nonvoting TSC Members
117	Tolerances	Standard Specifications for Tolerances for Concrete Construction and Materials	117-90	Revisions submitted to TAC 7/02. Approved. Committee responding to TAC comments.	Murray	Bakke
301	Specifications for Concrete	Specifications for Structural Concrete	301-99	Submitted to TAC review 3/03. Responding to TAC comments	Ardahl (M)*	Not needed
303	Architectural CIP Concrete	Standard Specification for Cast-in-Place Architectural Concrete	303.1-97	Agreement reached with 301. Revising spec.	Kaufman	Dorfmueller
305	Hot Weather Concreting	Standard Specification for Hot Weather Concreting	In Preparation	Revised draft submitted to TAC 9/03.	Daniel	Ryan
306	Cold Weather Concreting	Standard Specification for Cold Weather Concreting	306.1-90 (R-98)	No action on Spec. Working on report first.	Pergalsky	Ryan
308	Curing Concrete	Standard Specification for Curing Concrete	308.1-98	Revision reviewed by TSC 9/03. Planning new Specs. Need TAC approval of request	Pergalsky (M)*	Not needed
330	Concrete Parking Lots	Standard Specification for Plain Concrete	330.1-03	New version	Weiss	Kazanis

Comm. No.	Title	Specification	Status	Comment/ Action	TSC Liaison	Nonvoting TSC Members
	and Site Paving	Parking Lots		published.		
336	Footings, Mats, and Drilled Piers	Specification for the Construction of Drilled Piers	336.1-01	No action reported	Weiss	Oliver
346	CIP Pipe	Specification for Cast-in-Place Concrete Pipe	346-01	Review in progress.	Kaufman (M)*	Not needed
347	Formwork for Concrete	(Proposed specification on formwork)	Planning	TAC approval pending TSC recommendations on specification policy.		
350	Environmental Structures	Proposed Specification for Environmental Engineering Concrete Structures	In preparation	TSC/TAC approval to proceed given 4/02; Committee drafting it; committee ballot expected after Vancouver	Ardahl (M)*	Not needed
423	Prestressed Concrete	Specification for Unbonded Single Strand Tendons and Commentary	423.6-01/423.6R-01	No action reported	Daniel	423 Chair (Bruce Russell) to appoint TSC rep.
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 R97		Murray (M)*	Not needed
		Standard Specification for Bonding Plastic Concrete to Hardened Concrete with a Multi-Component Epoxy Adhesive	503.2-92 R-97			

Comm. No.	Title	Specification	Status	Comment/ Action	TSC Liaison	Nonvoting TSC Members
		Standard Specification for Producing a Skid Resistant Surface on Concrete by the Use of a Multi-Component Epoxy System	503.3-92 R97	Need to check for conflicts with 548 Specs		
		Standard Specification for Repairing Concrete with Epoxy Mortars	503.4-92 R97			
		Standard Specification for Crack Repair by Epoxy Injection	In preparation	Submitted to TAC, Fall 2002. Approved by TAC. Committee responding.		
506	Shotcreting	Specifications for Shotcrete	506.2-95	Finalizing rewrite from ballot comments.	Ardhal (M)*	Not needed
		Guide Specification for Concrete for Underground Support	In preparation	TAC approval not requested; Ardhal review recommends against Guide Spec.; develop as Guide.		
530	Masonry Standards Joint Committee	Specification for Masonry Structures	530.1-99	Discussing idea to separate code and spec requirements.	(pending)	(pending)
533	Precast Panels	Proposed Specification on Precast Panels	In preparation. TAC approval needed.	Weiss to review current draft	Weiss	Freedman
548	Polymers in Concrete	Standard Specifications for Latex Modified Concrete (LMC) Overlays	548.4-93 R98		Weiss	Stenko

Comm. No.	Title	Specification	Status	Comment/ Action	TSC Liaison	Nonvoting TSC Members
		Standard Specifications for Type EM Polymer Concrete Overlays	In preparation	Need to check w/ 503.3 for conflict. Need 503 test method to proceed.		
551	Tilt-Up Construction	Specification on Tilt-Up Construction	In preparation.	Committee ballot 12/02; Kaufman and Carino provided comments	Kaufman	Baty

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