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AGENDA

TAC Specifications Committee

Wednesday, April 25, 2007, 7 – 10 AM
MADISON Room, Hilton Atlanta
225 Courtland Street NE
Atlanta, GA 30303

Voting Members:

David W. Johnston, Chair
Miroslav F. Vejvoda, Secretary (nonvoting)
Jon B. Ardahl
William L. Barringer
William C. Bretnall
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 fall 2006 meeting in Denver, CO?

1.3 Membership Report

REPORT: Attachment 1.3 shows the current roster. Members are asked to review the roster and inform Secretary Vejvoda of any corrections.

Due to other commitments, Tony Murray has resigned from TSC. Murray was the TSC liaison to committees 117 and 503.

TSC Chair David Johnston will survey the TSC membership to determine the level of interest in activity in the committee and adjust the membership accordingly. Chair Johnston decided to table appointing new liaison members to committees 117 and 503 until any needed changes to the membership of TSC are made.

Charles Hanskat has been appointed a voting member.

ACTION: TSC is asked to appoint new liaison members to committees 117 and 503.

2. *ACI Specification Manual (ASpM)*

2.1 **2005 version of ASpM**

The 2005 version of the *ASpM* is available on the ACI website at:
http://www.concrete.org/COMMITTEES/com_forms.htm.

ACTION: No action is required.

2.2 **Punch list**

The current punch list of proposed changes to the 2005 version of the *ASpM* is shown in Attachment 2.2. Two items were added in Denver.

ACTION: Does TSC want to develop a schedule for the update of *ASpM*?

2.3 **Metrication**

At the spring meeting in Charlotte, TSC discussed the ACI policy on SI units. The current policy requires dual units in all ACI documents (except for Codes and Specifications that are published in separate volumes with TAC approval). TSC members feel that having dual units in the same document could raise problems in the use of ACI reference specifications.

TSC's opinion was forwarded to TAC and TAC recommended to the Board of Direction in Denver that the metrication policy be revised so specifications be required to be published in separate versions.

REPORT: The Board has approved the revision at the Denver meeting.

ACTION: No action is required.

2.4 **Materials Specifications**

At the spring meeting in Charlotte, TSC noted that TAC had added wording to the *ACI Technical Committee Manual* allowing for ACI to publish materials specifications. TSC sent a query to TAC regarding whether TSC should be required to review materials specifications. TAC agreed that TSC should have such responsibility.

3.2.1.4 – Test Methods and Materials Specifications

Revise 4th paragraph: “A technical committee proposing to develop a test method or a materials specification must obtain TAC approval before beginning work on the document. The proposal shall indicate the scope of

the test method, why it is needed, and a statement that ASTM is aware of this proposed activity and is not preparing a similar standard. The TAC Specifications Committee will review the proposal and make a recommendation to TAC. As detailed in the ACI Specification Manual, a liaison with TSC will be established once TAC approval is obtained, and TSC will review draft specifications as they are balloted to ensure the proper format is being followed.

REPORT: In Denver, TAC approved the wording above.

ACTION: TSC needs to include this item in the punch list and develop wording for the *ASpM*.

2.4.1 ACI 423.6 Material Specification

At their July 2006 meeting, TAC approved “Material Specification for Unbonded Single-Strand Tendons and Commentary (ACI 423.6).”

At the Denver meeting, TSC decided the preface as given in the *ASpM* was applicable to the 423.6 specification.

REPORT: Committee 423 completed the document in Denver in resolving all negatives on the responses to TAC comments and the changes to the document.

ACTION: No action is 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 summarizes ACI specification activities and current membership assignments.

REPORT: TSC Liaison and Associate Members are asked to report their respective committees’ activities, update Attachment 3.1, and discuss any actions required of TSC.

Committee 117: Liaison NEEDED. Associate Member Karl Bakke.
Committee 301: Liaison Jon Ardahl.
Committee 303: Liaison Alfred Kaufman. Associate Member Dan Dorfmueller.
Committee 304: Liaison Art Weiss. Associate Member Terry Holland.
Committee 305: Liaison Gene Daniel.
Committee 306: Liaison Gene Daniel.
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. Associate Member: TBD.
Committee 503: Liaison NEEDED.
Committee 506: Liaison Jon Ardahl.
Committee 522: Liaison Aimee Pergalsky. Associate Member Dale Fisher.
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.

ACTION: Is any action required?

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. ACI staff has been made aware of all specification-writing committees so that TSC reviews will be triggered when documents are being balloted.

Report: No new ACI specifications have been balloted since the last meeting. From Sept. 27 to Oct. 25, 2006, ACI Committee 308 balloted a previously TSC reviewed draft of “Specification for Curing Concrete (ACI 308.1).” The ballot received four negatives that were resolved during the Denver meeting. The document was submitted for TAC review at the Atlanta (Spring 2007) convention. Miroslav Vejvoda is asked to report.

From April 20 to May 20, 2006, ACI Committee 548 balloted a previously TSC reviewed draft of “Specification for Type EM (Epoxy Multi-Layer) Polymer Overlay for Bridge and Parking Garage Decks (ACI 548.YR).” The document was approved by the committee and submitted for TAC review at the Denver convention. TAC has approved the document in Denver, subject to satisfactory response to TAC comments.

From June 19 to July 19, 2006, ACI Committee 548 balloted a previously TSC reviewed draft of “Specification for Type ES Slurry Polymer Overlay for Bridge and Parking Garage Decks (ACI 548.AR).” The document was approved by the committee and submitted for TAC review at the Atlanta (Spring 2007) convention. Miroslav Vejvoda is asked to report.

From October 17 to November 16, 2006, ACI Committee 503 is balloting “Specification for Crack Repair by Epoxy Injection (ACI 503.7).” The specification was previously approved by TSC and TAC. The committee is balloting their response to comments received during the public discussion period. The ballot did not pass and a second one opened on December 11, 2006 and closed on January 10, 2007. The ballot passed with no negatives.

ACTION: Is any action required?

5. **Requests for New Specifications**

No new requests to write a specification have been received.

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.”

6.2 Goals for 2006

- Assist ACI 301, as needed, in completing its reorganization;
- Maintain updated database of ACI specification activities;
- Review draft specifications for conformance to the *ASpM* in a timely manner;
- Organize session for Atlanta on writing ACI specifications;
- Maintain punch list for future revision to the *ASpM*.

7.0 ACI Specification Policy

7.1 Background

Refer to the minutes of the previous five TSC meetings for background. On February 8, 2004, Chair Carino submitted to TAC the TSC recommendation for the reorganization of ACI 301. At the fall 2004 meeting, TAC selected Cal McCall for a three-year term to implement this reorganization. At the spring 2005 New York City convention, a meeting was held with chairs of the committees directly affected by the new format for ACI 301. At the fall 2005 convention in Kansas City, the reorganized Committee 301 held its first meeting. McCall reported that, in consultation with the subcommittee chairs, about 30 voting and 30 nonvoting (subcommittee only) members have been appointed to ACI 301. He also suggested that the chairs (or their designates) of the expert committees that are within the scope of ACI 301 should be added as consulting members so that they will receive all Committee 301 correspondence. As of March 15, 2006, this had not been done.

Calvin McCall reported at the Denver meeting that committee chairs or their designates still had not been appointed to associate membership on ACI 301. McCall stated this was a critical step towards improving communication between ACI 301 and the expert committees.

After the Denver meeting, chairs of identified expert committees were invited by 301 Chair McCall to accept a consulting membership on ACI 301. Most agreed and were appointed to the committee in December 2006.

REPORT: Calvin McCall is asked to report.

ACTION: Is any action required?

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. Action on this item is tabled until additional direction is provided by ACI.

QUESTION: What is the role of TSC on this subject?

No action was taken at the Denver meeting but the item should retain on the agenda for future action.

ACTION: Is any action required?

8. Training on Specification Writing

TSC members have developed a technical session for presentation at the Spring 2007 convention in Atlanta. It took place on Tuesday, April 24, 2007. Presenters were: Pergalsky, Weiss, Carino, Coleman, and Kaufman. Weiss was the session moderator.

ACTION: Art Weiss is asked to report on the session.

9. Committee Associate Members

In Charlotte, TSC asked Secretary Watson to appoint each TSC liaison member as an associate member of their assigned committee. This action will give the TSC liaison access to the committee's website.

Some of the TSC liaison members were already voting or associate members of their assigned committees. Watson arranged for the rest to be appointed as associate members: Gene Daniel to Committee 423; Al Kaufmann to Committees 303 and 551, and Art Weiss to Committees 304, 330, 336, 533, 548.

A liaison member will need to be appointed to Committees 117 and 503 (see item 1.3 of this agenda).

ACTION: Is any action required?

10. Next Meeting

TSC meetings are held on Wednesdays, 7 – 10 am. Chair Johnston will survey members to see if other times would be better, and may change the day, time, or both.

ACTION: Is any action required?

11. Adjournment

ATTACHMENTS:

- Attachment 1.3 — TSC Roster with Contact and Assignment Information
- Attachment 2.2 — 2005 *ACI Specification Manual* Punch List of Future Changes
- Attachment 3.1 — ACI Specifications Activity Database

Copies:

- ACI TAC members
- ACI Engineering staff

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

January 2006			
Name	Assignment	Telephone No.	E-Mail Address
TSC Officers and TAC Contacts			
David Johnston	Chair and TAC Contact	919/515-7412	johnston@eos.ncsu.edu
Miroslav Vejvoda	Secretary TSC (NV)	248/848-3713	miroslav.vejvoda@concrete.org
Ron Burg	Chair TAC	847/972-3050	rburg@ctlgroup.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
Nicholas J. Carino		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		847/972-3146	chanskat@ctlgroup.com
Alfred L. Kaufman, Jr.	303, 346, 551	925/866-2780	alfredl.kaufman@cemex.com
W. Calvin McCall		704/392-1506	wcmccall@concretees.com
Aimee Pergalsky	308, 522	216/491-9265	geoaimee@aol.com
Arthur T. Weiss, Jr.	304, 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. Dorfmüller	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	713/207-4379	billy.oliver@centerpointenergy.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
2005 ACI Specification Manual Punch List of Future Changes

Section	Issue	Action
APPROVED REVISIONS		
PROPOSED REVISIONS		
1.2.2	Revisit definitions for submit and submittal (should it say “for review or acceptance”).	Nov. 2005: added to punch list. March 2006: Remove “acceptance” from definition and put wording elsewhere in the manual that the engineer must accept the submittal.
1.3.5	Should specifications be in dual units? Board policy requires that they are.	Nov. 2005: added to punch list. March 2006: Fix typo (1.3.5 “...shall use dual units or SI units or may be...”) Also, TSC sees dual units as a potential problem. Consider using the word “default” instead of “standard” in the units statements shown in Section 3.3.
3.3	An ACI committee may wish to write a “materials” specification when an ASTM specification is lacking. In this case the “execution” part is not appropriate, because that is directed to the Contractor.	April 2005: Explain that an ACI specification needs three parts if all of them are necessary. Nov. 2005: Revisit after the 2005 TCM is issued. March 2006: Section 3.2.1.4 of the 2006 TCM now defines a materials specification and states that it must be in ASTM format. Add those words from the TCM into the <i>ASpM</i> . Also, scope needs to make it clear that the <i>ASpM</i> doesn’t cover materials specifications.
3.4	Review definitions of checklists. TAC had suggested adding “that require a decision” to the definitions in 3.4.2, 3.4.3, and 3.4.5.	Nov. 2005: added to punch list. March 2006: Carino’s proposed wording will appear on next ballot.

Section	Issue	Action
5.2.2	Some TSC members question whether reference specifications should be allowed to have commentaries. Review whether 5.2.2 should be deleted.	Nov. 2005: added to punch list. March 2006: Delete 5.2.2 for next ballot. TSC agreed that specifications should not have commentaries. 5.3.6 also has some wording that will need to be deleted.
	Revise format of reference specifications so that all non-mandatory text (Notes to Specifier) follows the mandatory text (Specification).	Nov. 2005: Added to punch list. March 2006: (Carino’s proposed revisions show the necessary changes in strikeout and underline). TSC agreed with the move, so TSC needs to work towards reformatting the <i>ASpM</i> as necessary.
Guide spec	Does a guide specification require a mandatory checklist? Are other changes needed in light of the 304 document?	March 2006: added to punch list.
Materials spec	<i>ACI Technical Committee Manual</i> now allows for publishing materials specifications. Needs to be addressed in the <i>ASpM</i> .	Nov. 2006: added to punch list.
QA/QC	Add new QA/QC definitions approved by ACI 301 to the definition section.	Nov. 2006: added to punch list.
Cross referencing	Should the <i>ASpM</i> allow cross referencing sections in a multiple section specification like ACI 301? If so, guidance is needed in <i>ASpM</i> .	Nov. 2006: added to punch list.
2.3.1 vs. 6.3	The example in 6.3 does not match the order of single item specification prescribed under 2.3.1	April 2007: added to punch list

**Attachment 3.1
 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	117-06	ACI 117-06 was published in Oct. 2006 and is available for sale.	Liaison needed	Bakke
301	Specifications for Concrete	Specifications for Structural Concrete	301-08 in preparation	Published Spring 2005. New Committee organized. McCall trying to keep on schedule. Plans to ballot three new sections between Denver and Atlanta: post-tensioning, tilt up, and precast/pretensioned.	Ardahl (M)*	Not needed
303	Architectural CIP Concrete	Standard Specification for Cast-in-Place Architectural Concrete	303.1-97	Information in spec getting rolled into ACI 301. Plan to ballot by the end of the 2006. Will be a new section 6 of ACI 301.	Kaufman	Dorfmueller
304	Measuring, Mixing, Transporting, and Placing Concrete	Guide Specification for Underwater Concrete	In preparation	Outline approved by TSC April 2005; TAC approved July	Weiss	Holland

Comm. No.	Title	Specification	Status	Comment/ Action	TSC Liaison	Nonvoting TSC Members
				2005. Weiss reviewed draft before Denver and stated much more guidance from TSC is needed. Committee has balloted it and intents to resolve ballot in Atlanta. Weiss will provide comments to committee in advance of the Atlanta meeting		
305	Hot Weather Concreting	Standard Specification for Hot Weather Concreting	ACI 305-06 in Preparation	TAC and Standards Board approved closure in Denver. Will be published beginning of 2007.	Daniel	Not needed
306	Cold Weather Concreting	Standard Specification for Cold Weather Concreting	306.1-90 (R-98)	No action on Spec. Working on report first.	Daniel	Not needed
308	Curing Concrete	Standard Specification for Curing Concrete	308.1-98	Balloted summer '06. Resolving negatives. Expect to go to TAC after this Denver.	Pergalsky (M)*	Not needed

Comm. No.	Title	Specification	Status	Comment/ Action	TSC Liaison	Nonvoting TSC Members
330	Concrete Parking Lots and Site Paving	Standard Specification for Plain Concrete Parking Lots	330.1-03	Change it to for pavements of 8 in. or less and write a heavy duty parking lot spec – discussing.	Weiss	Kazanis
336	Footings, Mats, and Drilled Piers	Specification for the Construction of Drilled Piers	336.1-01	Committee balloting guide and are resolving negatives. Once finished it will be easier to revise spec. Spec is mostly commentary, it will take significant effort to rewrite it.	Weiss	Oliver
346	CIP Pipe	Specification for Cast-in-Place Concrete Pipe	346-01	Balloting fall 2006.	Kaufman (M)*	Not needed
350	Environmental Structures	Specification for Environmental Engineering Concrete Structures	In preparation	Balloted by main committee 2006. Has passed but need to resolve negatives. Part of it will need to be reballoted. Needs TSC review. Carino volunteered, need others (possibly Bill Barringer). Probably will go to TAC in Fall '07.	Ardahl (M)*	Not needed

Comm. No.	Title	Specification	Status	Comment/ Action	TSC Liaison	Nonvoting TSC Members
				Chair Johnston appointed a Task Group to review it, with Carino as chair, Barringer, and Daniel as members. Time frame: Send to 350 chair and to TSC on 4/19/07.		
423	Prestressed Concrete	Material Specification for Unbonded Single-Strand Tendons and Commentary	423.6	TSC approved plan to prepare materials spec and separate installation spec 4/05. Spec approved by TAC July 2006 and Standards Board in Denver. Will be out for public discussion spring 2007.	Daniel	423 chair (Bruce Russell) to appoint TSC rep.

Comm. No.	Title	Specification	Status	Comment/ Action	TSC Liaison	Nonvoting TSC Members
503	Adhesives in Concrete	Specification for Installation of Unbonded Single-Strand Tendons and Commentary	423.7	TSC approved plan to prepare materials spec and separate installation spec 4/05. Spec approved by TAC July 2006 and Standards Board in Denver. Will be out for public discussion spring 2007.	Liaison needed	Not needed
		Standard Specification for Bonding Concrete, Steel, Brick and Other Materials to Hardened Concrete with a Multi-Component Epoxy Adhesive	503.1-92 R97	Format revision overdue		
		Standard Specification for Bonding Plastic Concrete to Hardened Concrete with a Multi-Component Epoxy Adhesive	503.2-92 R-97	Format revision overdue		
		Standard Specification for Producing a Skid Resistant Surface on Concrete by the Use of a Multi-Component Epoxy System	503.3-92 R97	Format revision overdue		
		Standard Specification for Repairing Concrete with Epoxy Mortars	503.4-92 R97	Format revision overdue		

Comm. No.	Title	Specification	Status	Comment/ Action	TSC Liaison	Nonvoting TSC Members
		Standard Specification for Crack Repair by Epoxy Injection	503.7-XX	Public discussion ended 11/30/05. Committee preparing closure.		
506	Shotcreting	Specifications for Shotcrete	506.2-95	Revising.	Ardahl (M)*	Not needed
522	Pervious Concrete	Specification for Pervious Concrete Pavements	In preparation	Request approved by TAC July 2005. Balloted after Charlotte. TAC reviewed and did not approve in Denver. Committee to revise and resubmit.	Pergalsky	Fisher
533 548	Precast Panels Polymers in Concrete	Proposed Specification on Precast Panels	In preparation.	TAC approval needed. Will be folded into ACI 301.	Weiss Weiss	Freedman Stenko
		Standard Specifications for Latex Modified Concrete (LMC) Overlays	548.4-93 R98	Format revision overdue		
		Standard Specifications for Type EM Polymer Concrete Overlays	committee revising	Reviewed and approved by TAC in Denver. Committee responding to TAC comments.		
		Standard Specifications for Type ES Polymer Concrete Overlays	committee revising	Balloted.		

Comm. No.	Title	Specification	Status	Comment/ Action	TSC Liaison	Nonvoting TSC Members
551	Tilt-Up Construction	Specification on Tilt-Up Construction	In preparation.	Being rolled into 301; not clear if will keep a stand alone.	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.