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AGENDA

TAC Specifications Committee Wednesday, October 17, 2007, 7 – 10 AM FLAMBOYAN A, El Conquistador Resort & Spa 1000 Conquistador Avenue Fajardo, Puerto Rico

Voting Members:

David W. Johnston, Chair	D. Gene Daniel
Miroslav F. Vejvoda, Secretary (nonvoting)	Charles S. Hanskat
Jon B. Ardahl	Alfred L. Kaufman, Jr.
William L. Barringer	W. Calvin McCall
Nicholas J. Carino	Aimee Pergalsky
Jeffrey W. Coleman	Arthur T. Weiss, Jr.

Associate Members

Karl J. Bakke	Terence C. Holland
James R. Baty	Kenneth G. Kazanis
Daniel P. Dorfmueller	William H. Oliver, Jr.
Dale Fisher	Michael S. Stenko
Sidney Freedman	

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 spring 2007 meeting in Atlanta, GA?

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.

ACTION: Is any action required?

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/technical/technical.htm>

ACTION: No action is required.

2.2 Revisions to the 2005 ASpM

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

At the April 2007 meeting, TSC decided to proceed with implementing the revisions to the 2005 *ASpM*, based on the punch list. A task group (TG 2.2) was appointed (Nick Carino as chair, Jon Ardahl and Calvin McCall as members) to draft the changes.

In August 2007, the proposed revision to *ASpM* was received by staff and additional modifications were proposed to align the *ASpM* with the revisions to the 2007 MCP.

TSC has balloted the revisions to the 2005 *ASpM* before the Puerto Rico meeting. All comments received will be discussed at the meeting.

ACTION: Does TSC approve the revision to the 2005 *ASpM*?

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 Charles Hanskat. Associate Member Karl Bakke.

Committee 301: Liaison Jon Ardahl.

Committee 303: Liaison Alfred Kaufman. Associate Member Dan Dorfmueeller.

Committee 304: Liaison Nick Carino. 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 Charles Hanskat. Associate Member: TBD.

Committee 440: Liaison Nick Carino.

Committee 503: Liaison Charles Hanskat.
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.

The procedures for obtaining approval to start writing specifications, for committee liaisons, and for final approvals of specifications are being reviewed. The revisions to the 2005 ASpM include the new procedures.

ACTION: No action is 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.

See Attachment 3.1 for specifications activities and reviews.

ACI 440.X-XX, and ACI 440.Y-XX were reviewed by TSC TG and the comments finalized in a conference call on July 9, 2007. The compiled comments were transmitted to the committee together with the TAC comments in Puerto Rico.

At the Puerto Rico meeting, TAC reviewed ACI 311.X-XX,. Because of the limited time available, TSC was asked to perform their final format review as external TAC reviewers.

ACTION: Is any action required?

5. Requests for New Specifications

No new requests to write a specification have been received.

ACTION: No action is required.

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 2007

- 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*;
- Revise the 2005 *ASpM*;
- Refine liaison procedures, encourage TSC member attendance, and appoint new members; and
- Organize a short presentation on specifications at chair breakfast.

ACTION: Is any action required?

7.0 ACI Specification Policy

7.1 BACKGROUND: Refer to the minutes of the previous 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.

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 on the 301 progress.

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.

In Atlanta, staff member Senecal informed the committee of the intent to include an electronic specification in the Knowledge Center on the ACI website. The format would be similar to the existing case studies.

A Task Group (TG-7.2) was appointed (Ardahl, Hanskat, and Weiss) to advise staff and to review the e-specification draft. A draft will be available to the TG for review before the Los Angeles meeting.

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.

Art Weiss reported on the session. It was very successful and generated a lot of interest. TSC should plan for future training workshops, possibly once a year on Tuesday morning (7:00 to 8:30 am). Another option is to include an interactive specification module on the ACI website as part of the Help page.

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 — 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**

October 2007			
Name	Assignment	Telephone No.	E-Mail Address
TSC Officers and TAC Contacts			
David Johnston	Chair and TAC Contact RG-440 Chair, RG-503.3 Chair	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, TG-2.2, TG-7.2, TG-304	785/887-9991	ard00097@netzero.net
William L. Barringer		505/293-8368	joy2Bill@aol.com
Nicholas J. Carino	304, 440, TG-2.2 Chair, TG-304	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-7.2, TG-304 Chair, RG-440	847/972-3146	chanskat@ctlgroup.com
Alfred L. Kaufman, Jr.	303, 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-7.2, RG-440, RG-503.3	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	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.
Definitions	Clarify how definitions are to be handled. ACI 116 is not a standard.	April 2007: added to punch list
References	Clarify that only mandatory-language standards can be cited in a specification. Other references for the specifier can be provided in the checklists or in the Forward to Checklists.	April 2007: added to punch list
Checklists	Provide language to improve referral phrases.	April 2007: added to punch list

Attachment 3.1
ACI SPECIFICATIONS ACTIVITY DATABASE

Comm. No.	Title	Specification	Number / 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. New ITG to produce a mandatory document based on PCI's tolerance document.	Hanskat	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. Three new sections balloted between Denver and Atlanta: post-tensioning, tilt up, and precast / pretensioned. Summer meeting will probably take place.	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 2005. Committee is balloting and will send to TSC. Weiss reviewed draft before Denver and stated much more guidance from TSC is needed. A Task Group (TG-304) was appointed (Hanskat as chair, Carino, Ardahl) to provide	Carino	Holland

Comm. No.	Title	Specification	Number / Status	Comment/ Action	TSC Liaison	Nonvoting TSC Members
				guidance.		
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 soon.	Pergalsky (M)*	Not needed
311	Inspection of Concrete	Specification for Testing of Ready-Mixed Concrete	311.X-XX	Submitted for TAC review in Puerto Rico (Fall 2007); TSC reviewing as external reviewer.		
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. It will have to be reapproved in two years.	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. This specification will be changed into a guide specification as it is very site specific.	Weiss	Oliver

Comm. No.	Title	Specification	Number / Status	Comment/ Action	TSC Liaison	Nonvoting TSC Members
346	CIP Pipe	Specification for Cast-in-Place Concrete Pipe	346-01	Balloting fall 2006.	Kaufman (M)*	Not needed
347	Formwork for Concrete	Formwork Specification	New, in preparation	It is not clear how different the specification would be from 301. Chair Johnston will discuss with the committee.		
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. TSC review was done by Carino and Bill Barringer. Probably will go to TAC in Spring '08.	Ardaahl (M)*	Not needed
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.	Hanskat	423 chair (Andrea Schokker) to appoint TSC rep.
423	Prestressed 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	Hanskat	423 chair (Andrea Schokker) to appoint TSC rep.

Comm. No.	Title	Specification	Number / Status	Comment/ Action	TSC Liaison	Nonvoting TSC Members
				2007.		
440	Fiber Reinforced Polymer Reinforcement	Specification for Carbon and Glass Fiber Reinforced Polymer (FRP) Bars for Concrete Reinforcement	440.Y-XX Submitted to TAC	In Charlotte, ACI 440 requested TSC to approve the development of this specification. TSC Review Group (RG-440) was appointed to review specification formatting: Johnston as chair, Hanskat, and Weiss; TSC review was completed on July 9, 2007. Comments forwarded to 440 as part of TAC review.	Carino	
440	Fiber Reinforced Polymer Reinforcement	Specification for Construction with Fiber Reinforced Polymer (FRP) Reinforcing Bars and Their Supports	440.X-XX Submitted to TAC	In Charlotte, ACI 440 requested TSC to approve the development of this specification. TSC Review Group (RG-440) was appointed to review specification formatting: Johnston as chair, Hanskat, and Weiss; TSC review was completed on July 9, 2007. Comments forwarded to 440 as part of TAC review.	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 R97	Format revision overdue. TSC is recommending removal from the MCP.	Hanskat	

Comm. No.	Title	Specification	Number / Status	Comment/ Action	TSC Liaison	Nonvoting TSC Members
503	Adhesives in Concrete	Standard Specification for Bonding Plastic Concrete to Hardened Concrete with a Multi-Component Epoxy Adhesive	503.2-92 R-97	Format revision overdue. TSC is recommending removal from the MCP.	Hanskat	
503	Adhesives in Concrete	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. Expected to go to TAC in the summer 2007.	Hanskat	
503	Adhesives in Concrete	Standard Specification for Repairing Concrete with Epoxy Mortars	503.4-92 R97	Format revision overdue. TSC is recommending removal from the MCP.	Hanskat	
503	Adhesives in Concrete	Standard Specification for Crack Repair by Epoxy Injection	503.7-XX	Public discussion ended 11/30/05. Committee preparing closure.	Hanskat	
506	Shotcreting	Specifications for Shotcrete	506.2-95	Revising. There are problems with major negatives and with the commentary. Will take some time to finish.	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. TAC reviewed again at this Atlanta meeting and approved the document.	Pergalsky	Fisher

Comm. No.	Title	Specification	Number / Status	Comment/ Action	TSC Liaison	Nonvoting TSC Members
533	Precast Panels	Proposed Specification on Precast Panels	In preparation.	TAC approval needed. Will be folded into ACI 301.	Weiss	Freedman
548	Polymers in Concrete	Standard Specifications for Latex Modified Concrete (LMC) Overlays	548.4-93 R98	Format revision overdue	Weiss	Stenko
548	Polymers in Concrete	Standard Specifications for Type EM Polymer Concrete Overlays	committee revising	Reviewed and approved by TAC in Denver. Committee responding to TAC comments. Third review approved by TSC. The mandatory side cannot refer to ICRI; it should be in the checklist. The section F8-Foreword to checklist can include such references and can be invoked by a mandatory checklist item.	Weiss	Stenko
548	Polymers in Concrete	Standard Specifications for Type ES Polymer Concrete Overlays	committee revising	Balloted.	Weiss	Stenko
551	Tilt-Up Construction	Specification on Tilt-Up Construction	In preparation.	Being rolled into 301; not clear if will keep a stand alone. It will not be a specification in 551 as it is now in 301.	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.