

AGENDA

PTI TAB Technical Advisory Board

Thursday, October 7, 2021

1:00 p.m. - 5:00 p.m. Eastern

Hyatt Regency Coconut Point – Bonita Springs, FL

Voting Members Present (12 of 12, Quorum for meeting vote = 5)

Don Kline, Chair	Kline Engineering & Consulting
Tim Christle, NV	PTI Staff, NV
Hamid Ahmady	Suncoast Post-Tension Ltd
Jonathan Hirsch	Bentley Systems, Inc.
Asit Baxi	Baxi Engineering, Inc.
Martin Cuadra	Uzum+Case, LLC
Carol Hayek	CCL USA
Don Illingworth	Don Illingworth & Assoc., Inc.
Bryan Allred	Seneca Structural Engineering, Inc.
John Crigler	Structural Technologies, Inc.
Andrea Schokker	University of Minnesota Duluth
Mike Schwager	Schwager Davis, Inc.
Edgar Zuniga	Dywidag Systems International USA

Visitors

SUMMARY OF ACTION ITEMS FROM LAST / THIS MEETING

Item #	Subject	Action	Responsible	Deadline / Completed
A.3	TAB Roster / Membership Rotation	Don Kline 1 year Chair extension will be voted on by Board. Need to plan for Edgar's replacement after Committee Days.	All	October, 2021
D.1	TAB Code TG	TAB Code TG has a web meeting once a month. Work continues to advance proposals to 318 and 320.	TAB TG members	Ongoing
2.1	Dual Banded Tendons	Dual banded TN revisions needs final TAB resolution so it can publish after receipt and review of final VT research report.	All	October, 2021

2.2	CJ Couplers	TG evaluation of CJ couplers. No further evaluation needed at this time. Hold for the future if needed.	TG: Don K, Asit, Andrea, Rashid	Closed
2.4.1	0.7 fpu at Transfer	TAB Code TG is handling this issue. Ballot passed and is now on to 318.	TAB TG members	Ongoing
2.4.2	Restrained vs. Unrestrained	TAB Code TG is discussing this issue. Interface with DC-20 desired. Chapter 18 of the PT Manual another part of this.	Carol, Martin C.	Ongoing
2.8	Barrier cable test for short spans	Test proposal and setup to go through TAB review (2 weeks) prior to commencing testing.	Asit	May, 2021
2.9	Progressive Collapse	TAB Code TG is discussing this issue. Get more detail on the possible testing and contributors. Circulate Mehrdad Sasani paper to TAB.	Carol	Ongoing
4.1	Technical Committee Manual	TCM needs to be updated to include the TAB Code Change TG proposal process. TCM also needs to combine with CCM for single document.	All	Ongoing
5.2	Committees' Annual Reports	Obtain Annual Reports from all technical committees. Don to send email to Chairs reminding them these are due and then we need them on Fall 2021 agendas.	TAB Contacts and staff	May, 2021
5.3	TAB Contact Assignments	Replace TAB contact person on DC-25, DC-40, M-10 and DC-20A	Don, Tim	May, 2021
6.2.1	PT Manual 7 th Edition Update	Continue update flow of chapters from authoring through publishing	Tim, All	Ongoing

Item #	Expected Outcome / Actions Taken
A – General	
A.1 Call to order	A.1 Meeting was called to order at XX:XX pm ET.
A.2 Introduction / Announcements	A.2 Introduce in-person and online/virtual attendees.
A.3 TAB Roster / Membership Rotation	A.3 We need to discuss the next new TAB member. This should be Edgar's last meeting. Don Kline was granted an additional year extension as TAB Chair by the Board at the PTI Spring Convention.

Item #	Expected Outcome / Actions Taken
<p>TAB Member Rotation:</p> <ul style="list-style-type: none"> • 2021: Kline, Zuniga (2008, 2012) • 2022: Hayek (2012), Baxi (2003) • 2023: Illingworth (2015) • Member rotation per TCM <p>The list of potential TAB candidates (no particular order):</p> <ul style="list-style-type: none"> • Bob Sward (Chair M-50) • Jack Graves (Officer) • Drew Micklus • Frank Malits (ACI 318-A, too busy?) • Greg Hunsicker (Chair CRT-40, CRT-70; EC secretary) • Martin Maingot • Jim Donnelly (Chair CRT-60) • Shahid Islam (DSI) • Brian Merrill (WJE) <p>A.4 PTI Antitrust Policy (Exhibit A.4)</p> <p>A.5 Committee Annual Reports</p>	<p>The new process of getting new members on TAB:</p> <ul style="list-style-type: none"> • TAB to nominate 2 new TAB members • The new Nominating Committee will review the nominations and make recommendations to the Board. • The Board will review the recommendations and vote on the new member appointments. <p>A.4 All present are reminded of the PTI Antitrust Policy and are asked to adhere to it.</p> <p>A.5 Follow up on annual reports.</p> <ul style="list-style-type: none"> • Was this requested of committees per Item 5.2?
<p>B. Agenda & Minutes</p> <p>B.1 <u>Approval of Agenda</u></p> <p>B.2 <u>Approval of Meeting Minutes</u> (Meeting ballot required)</p> <p>B.2.1 Approval of Meeting Minutes from 4/22/21</p>	<p>B.1 Any changes to the agenda?</p> <p>B.2.1 Motion / Second to approve Meeting Minutes (Exhibit B.2) from 4/22/21: Name/Name, X-X-X (Y-N-A)</p>
<p>C. Actions Taken Between Meetings</p> <p>C.1 <u>Letter Ballots</u></p>	<p>C.1.1 Review: Proposed PTI Barrier Cable Testing</p> <p>C.1.2 Ballot TAB-2106 TCM Procedures for TAB Code Changes TG</p> <p>C.1.3 Ballot TAB-2105 SOG Technote on Flatwork attached to PT SOG</p> <p>C.1.4 Ballot TAB-2107 TCM Procedures for TAB Code Changes TG</p>

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C.2 <u>Web Meetings</u>	<p>C.1.5 Ballot TAB-2108 Code Change Proposals TGP011, TGP014, TGP018, TGP019 (Closes today, 10/7/21)</p> <p>C.2 TAB web meetings were held on 5/4/21 and 5/12/21.</p>
<p>D. TAB Standing Agenda Items:</p> <p>D.1 <u>TAB PT Code TG:</u> Don Kline (Lead), Martin Cuadra, Carol Hayek, Rashid Ahmed, Andrea Schokker, Asit Baxi, Frank Malits, Jonathan Hirsch, Miroslav Vejvoda, Tim Christle (Secretary).</p> <p>D.1.1 TG Meetings</p>	<p>D.1 See (Exhibit D.1)</p> <ul style="list-style-type: none"> • 8 proposals balloted thus far • 20 total proposals developed thus far <p>D.1.1 Recurring monthly web meetings were held on 6/1/21, 7/6/21, 8/3/21 and 9/7/21.</p> <p>Next meeting is set for 10/11/21.</p>
<p>1. Technical Committee Personnel</p> <p>1.1 <u>Technical Committee Chairs and Missions</u></p> <p>1.2 <u>Technical Committee Members</u></p>	<p>1.1 Current Chairs: PTI website lists all committees with the official rosters, Chairs, and missions.</p> <ul style="list-style-type: none"> • Discuss new Chairs for: <ul style="list-style-type: none"> ○ EDC-130 ○ DC-20 ○ DC-20A ○ DC-80 <p>1.2 Ongoing approval process by Committee Chair and TAB Chair, with staff verification of conflict and/or balance of interest.</p>
<p>2. TAB Initiatives</p> <p>2.1 <u>Dual banded tendons in two-way slabs</u></p> <p>2.2 <u>Construction Joint Couplers</u></p> <p>2.3 <u>Post-Tensioned Parking Structures</u></p>	<p>2.1 Status report</p> <ul style="list-style-type: none"> • Dual banded TN revisions needs final TAB resolution. • Final report delayed coming from VT <p>2.2 TG evaluation of CJ couplers Status report</p> <ul style="list-style-type: none"> • Close this item for now <p>2.3 DC-25 Parking Structures Committee, Chair Rashid Ahmed Report: See item 5.1.3</p> <ul style="list-style-type: none"> • Life cycle cost study funding to EC?

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<p>2.4 <u>PTI Positions on important issues</u></p> <p>2.4.1 0.7 f_{pu} limit at transfer</p> <p>2.4.2 Restrained vs. unrestrained conditions in 2-way slabs</p> <p>2.4.3 Accelerated Construction</p> <ul style="list-style-type: none"> • Bridges: ABC; precast • Buildings: Peikko; modular; CLT (Cross-Laminated Timber) <p>2.4.4 Environmental Product Declaration (EPD)</p> <p>2.5 <u>DC-80.3 Guide for Evaluation and Repair of PT Structures</u></p> <p>2.6 <u>PTI M-10 & ACI 423.7</u> Watertightness testing of encapsulated tendons</p> <p>2.8 <u>Barrier Cable test for short spans</u> Barrier Cable test for short spans. Asit proposed conducting simple testing of short BC run to establish/verify design criteria. There is disagreement on how to interpret IBC Code language and other industry guidance (PTI manual) for purposes of designing BC.</p> <p>2.9 <u>Other Initiatives?</u></p> <p>2.9.1 Progressive collapse</p> <p>2.9.2 Force averaging</p>	<p>2.4.1 Transferred to TAB code changes TG</p> <p>2.4.2 Discuss fire modeling analysis research funding proposal</p> <p>2.4.3</p> <p>2.4.4</p> <p>2.5 See also item 5.1.7.</p> <p>2.6</p> <p>2.8 Report by Asit Baxi</p> <ul style="list-style-type: none"> • <p>2.9.1 Progressive collapse</p> <ul style="list-style-type: none"> • Update? <p>2.9.2 Force averaging.</p> <ul style="list-style-type: none"> • Harley Nethken opportunity to do testing. Gather up previous information, notes, equipment and pursue?
<p>3. Relations with other Organizations</p> <p>3.1 <u>ACI</u></p> <p>3.1.1 ACI 301, Specification for Structural Concrete</p>	<p>3.1.1 ACI 301:</p>

Item #	Expected Outcome / Actions Taken
3.1.2 ACI 318, Structural Concrete Building Code 3.1.3 ACI 350, Environ. Eng. Conc. Structures 3.1.4 ACI 362, Parking Structures 3.1.5 ACI 423, Prestressed Concrete 3.2 <u>ICRI</u> 3.3 <u>IBC</u> 3.4 <u>AISC</u> 3.5 <u>ASCE</u> 3.6 <u>ASBI</u> 3.7 <u>TRB</u> 3.8 <u>FIB</u> 3.9 <u>CSA</u> 3.10 <u>ACCS</u> 3.11 <u>Contacts to Spec Writing Agencies</u>	3.1.2 See item D.1 3.1.3 ACI 350: 3.1.4 ACI 362: 3.1.5 ACI 423: 3.2 3.3 3.4 3.5 3.6 3.7 3.8 3.9 3.10 3.11
4. Technical Committee Procedures 4.1 <u>Technical Committee Manual</u> 4.2 <u>Post-Tensioning Terminology (PTT)</u> 4.3 <u>Membership Appointment Procedures</u>	4.1 <ul style="list-style-type: none"> • Need WM to resolve ballot for TG code change proposal process. • Plan of attack for TCM/CCM combo document? 4.2 The PTT document needs to be updated. 4.3
5. Technical Committee Reports 5.1 <u>PTI Technical Committees</u>	5.1 Reports from committee Chairs / TAB Contacts

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5.1.1 DC-10	<p>5.1.1 DC-10, Slab-on-Ground Committee; Chair Tony Childress (Don Illingworth – TAB Contact)</p> <ul style="list-style-type: none"> •
5.1.2 DC-20	<p>5.1.2 DC-20, Building Design Committee; Chair Carol Hayek</p> <ul style="list-style-type: none"> • <p>DC-20A, BIM Subcommittee; Chair Frank Malits (Jonathan Hirsch – TAB Contact)</p> <ul style="list-style-type: none"> • Discuss pursuit of EM-6 and EM-20 next
5.1.3 DC-25	<p>5.1.3 DC-25, Parking Structures Committee; Chair Rashid Ahmed (Jonathan Hirsch – TAB Contact)</p> <ul style="list-style-type: none"> •
5.1.4 DC-35	<p>5.1.4 DC-35, Prestressed Rock and Soil Anchor Committee; Chair Andy Baxter (Asit Baxi – TAB Contact)</p> <ul style="list-style-type: none"> •
5.1.5 DC-40	<p>5.1.5 DC-40, Bridge Design Committee; Chair Brian Merrill (John Crigler – TAB Contact)</p> <ul style="list-style-type: none"> •
5.1.6 DC-45	<p>5.1.6 DC-45, Cable Stayed Bridge Committee, Chair Gregory Hasbrouck (Mike Schwager – TAB Contact)</p> <ul style="list-style-type: none"> •
5.1.7 DC-80	<p>5.1.7 DC-80, Repair, Rehab. & Strengthening Committee; Chair Tracy Naso (Don Kline – TAB Contact)</p> <ul style="list-style-type: none"> •
5.1.8 M-10	<p>5.1.8 M-10, Unbonded Tendon Committee; Chair Michael Williams (Edgar Zuniga – TAB Contact)</p> <ul style="list-style-type: none"> • TAB ballot for revisions to M10.2 spec coming soon. The proposed revisions to PTI M10.2 Specification for Unbonded Single Strand Tendons are necessary to fully implement the planned PTI Certification Program for Post-Tensioning System Component Manufacturers. Most of the revisions relate to wedges.
5.1.9 M-50	<p>5.1.9 M-50, Bonded Tendon Committee; Chair Bob Sward (Edgar Zuniga – TAB Contact)</p> <ul style="list-style-type: none"> • Need to discuss M-50/M-55 Joint TG on Flexible Filler and their recommendations for TAB plus M-50 and M-55 review.

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<p>5.1.10 M-55</p> <p>5.2 <u>Committees' Annual Reports</u></p> <p>5.3 <u>TAB Contact Assignments</u></p> <p>DC-10: Don Illingworth DC-20: Carol Hayek DC-25: Rashid Ahmed (Jonathan) DC-35: Asit Baxi DC-40: Mike Schwager (John C.) DC-45: Mike Schwager DC-80: Don Kline M-10: Rashid Ahmed (Edgar) M-50 Edgar Zuniga M-55: Andrea Schokker</p>	<p>5.1.10 M-55, Grouting Committee; Chair Brian Merrill (Andrea Schokker – TAB Contact)</p> <ul style="list-style-type: none"> • <p>5.2 Committee are asked to submit the Annual Reports.</p> <ul style="list-style-type: none"> • Update on this? <p>5.3 There is no need for TAB contact for subcommittees or TGs, although there might be occasionally a need for TAB representation on a subcommittee or TG. When TAB members retire, and new ones join, the TAB contact assignments will be reviewed and revised accordingly.</p>
<p>6. Technical Committee Documents (Open Meeting)</p> <p>6.1 <u>Existing PTI Technical Documents</u></p> <p>6.2 <u>New / Proposed PTI Technical Documents</u></p> <p>6.2.1 TAB.1 PT Manual (a) The process for TAB review of chapters:</p> <ul style="list-style-type: none"> • Ballots 30 days; two chapters at a time • Schedule regular web meetings • Ballot reminders; 2W, 1W, 3D (web balloting) • For each chapter, there are 2 TAB Primary Reviewers • Outside reviewers can be added if needed. Some committees such as DC-20 and DC-80 may have volunteers to review respective chapters. 	<p>6.1 Existing documents</p> <p>6.2 Proposed documents</p> <p>6.2.1 PT Manual PT Manual Revision</p> <ul style="list-style-type: none"> • See (Exhibit 6.2.1)

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(b) Status Report: Tim Christle	
7. Other Publications (Open Meeting)	
7.1 New PTI Technical Notes?	7.1 Tim issued a push to all committees to update their existing Tech Notes and FAQs
7.2 New PTI FAQs?	7.2
7.3 PTI JOURNAL	7.3
8. Conventions and Other Meetings (Open Meeting)	
8.1 2022 Technical Sessions	8.1
8.2 2022 Committee Chair Luncheon	8.2
8.3 2022 PTI & TAB Awards	8.3
9. Educational Items	
9.1 Excerpt from the Strategic Plan: <ul style="list-style-type: none"> • Revise and update documents older than 6 years • Revise and update FAQs and TNs older than 4 years • Develop library of selected FAQs with focus on PTI position on all PT applications • Identify research needs for PT • Solicit support from stakeholders for financing, per project • Develop a course for PTI Building Design and compile required webinar modules and course materials • Develop a course for PT SOG Design and compile required webinar modules and course materials 	9.1 Coordination with the Education Committee; Professor's Seminar – TAB recommendations:
9.2 Design Seminars PTI offers half and full day in-person seminars per special request. Demand raising for online delivery.	9.2 Update
9.3 Online Learning Platform	9.3

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9.4 Free resources on PTI website	<p>9.4</p> <ul style="list-style-type: none"> • Free resources on PTI website? <ul style="list-style-type: none"> ○ Tech Session presentations ○ PTI JOURNAL Articles after 6 months ○ Tech notes, FAQ's, ○ DC20.1-87 Strength and Behavior of Closely Spaced PT Monostrand Anchorages ○ DC20.3-89 Structural Integrity of Buildings Constructed with Unbonded Tendons ○ DC20.4-90 Earthquake Performance of Unbonded PT Buildings ○ DC20.5-90 Evaluation of the Condition of a PT Concrete Parking Structure after 15 Years of Service ○ DC80.1-89 Controlled Demolition of an Unbonded PT Concrete Slab ○ PTI10.1-88 Ten-Year Marine Exposure Test for Unbonded Prestressed Concrete Prisms
<p>D. New Business (Open Meeting)</p> <p>D.1 UHPC D.2 GUTS/MUTS/UTS terminology D.3 PTI to pursue ANSI SDO status D.4 PTI Research Committee D.5 PTI code consultant</p>	<p>D.1 How does UHPC impact the PT industry? D.2 Preferred term for all PTI publications D.3 Motion to pursue passed by EC D.4 Motion to pursue passed by EC D.5 PTI has retained code consultant to work on DC10.5 adoption into IRC</p>
<p>E. Next Meeting</p> <p>E.1 2022 PTI Convention, Hilton La Jolla Torrey Pines, La Jolla, CA April 24-27, 2022</p> <p>E.2 Web Meetings</p>	<p>E.1</p> <p>E.2</p> <ul style="list-style-type: none"> • Need one more Dual Banded TN ballot resolution WM. • Need WM to resolve negatives on Ballot TAB-2107 TCM Procedures for TAB Code Changes TG
<p>F. Adjourn</p>	<p>F. Meeting adjourned at XX:XX pm ET</p>

AGENDA / MINUTES EXHIBITS

Exhibit #	Subject
Roster / A.4	Sign In Sheet / PTI Antitrust Policy
B.2	210422 TAB Minutes 04-22-21 Unapproved.pdf
D.1	210907 TAB TG 318-T 320 Code Change List.pdf
6.2.1	211007 TAB.1-XX PT Manual Update Status Report.pdf

At a meeting on October 8, 1980, the Board of Directors first discussed the Institute's status and policies regarding compliance with antitrust laws. After review of both the internal and external compliance procedures, the following resolution was approved:

"The staff, officers, directors and members of the Post-Tensioning Institute are reminded that they are required to comply with the spirit and specific requirements of the antitrust laws on all activities within the scope of, and related to, the official functions of PTI. Further, this restated position, along with appropriate explanatory material, should be placed in all meeting folders/books periodically, beginning with the 8th of October meeting of PTI."

On July 24, 2012 and again on October 7, 2015, the Executive Committee authorized Legal Counsel to review and update this Policy Statement in the perspective of the Department of Justice Business Review Letter of July 30, 1997 and current case law. As a continuing guide for your participation in PTI's meetings, please review and continue to adhere to the following "Legal Limitation on Discussions at PTI Meetings."

LEGAL LIMITATION ON DISCUSSIONS AT PTI MEETINGS AND EVENTS

A free exchange of ideas on matters of mutual interest to the members is necessary for the success of all meetings. Indeed, such an exchange of views is essential to the successful operation of every trade association and the law specifically allows legitimate exchange of views pertaining to, e.g., quality control, safety, building design and construction integrity, etc.

It is not the purpose of this memorandum to discourage the exploration in depth of any matters of legitimate concern to meeting participants. Nevertheless, to ignore certain antitrust ground rules, either through ignorance or otherwise, is to create a civil and criminal hazard businessmen simply cannot afford.

It is for these reasons that PTI provides you with a reminder that certain areas of formal and informal communication between competitors or between manufacturers and their suppliers and customers must be avoided, as posing potential antitrust problems.

The Sherman Antitrust Act, the Clayton Act, the Federal Trade Commission Act, and the Robinson-Patman Act comprise the basic federal antitrust laws, which set forth the broad areas of conduct considered illegal as restraints of trade. In general, agreements or understandings between competitors that operate as an impediment to free and open competition are forbidden. Federal antitrust prohibitions forbid any "agreement or understanding...to substantially lessen competition or tend to create a monopoly in any line of commerce." An important point to keep in mind is that communications and discussions between competitors or between sellers and customers, about matters which may be considered anti-competitive, often comprise the evidence from which courts infer antitrust violations. ***It is the policy of the Post-Tensioning Institute that such agreements, understandings or communications shall not be tolerated at any formal or informal meetings or social events of the Institute.***

The general prohibitions contained in the federal antitrust laws, have been particularized in the form of a series of consent decrees, originally entered against a number of member companies of various trade associations and the associations themselves. It is important to note that these laws not only apply to PTI members, but also to PTI itself. Often trade associations have been and are presently co-defendants in cases brought by the Justice Department and the Federal Trade Commission ("FTC"). Recently, the FTC has stated: "*Because trade associations are by their nature collaborations among competitors, the Commission and courts have long been concerned with anti-competitive restraints imposed by such organizations under the guise of codes of conduct. Competing for customers, cutting prices, and recruiting employees are hallmarks of vigorous competition. Agreements among competitors not to engage in these activities injure consumers by increasing prices and reducing quality and choice.*" Similar "codes" or policies and requirements that encourage directly or indirectly members' unlawful activity are strictly forbidden by PTI in the course of its business with its members.

SPECIFIC EXAMPLES OF ACTIVITIES AND PRACTICES PROHIBITED

AT ALL PTI MEETINGS AND EVENTS:

Included in activities and practices which are forbidden, and are contrary to the policy of the Institute, both under the general antitrust laws and the consent decrees, subject to the said Business Review Letter, are the following:

- Agreeing to allocate markets, customers or suppliers among competitors, classify certain customers or suppliers being entitled to preferential treatment by manufacturers, and establish geographic trading areas.
- Participating in any plan designed to induce any manufacturer or distributor to sell or refrain from selling, or discriminate in favor of, or against any particular customer or class of customers.
- Agreeing in any manner to fix or otherwise establish bids, prices (including price increases, decreases, standardization or stabilization), profits, costs, contract terms affecting price (such as discounts and credit terms), etc. because, e.g. prices were too low, with the exception of certain resale pricing agreements between manufacturers and retailers or distributors.
- Agreeing in any manner to limit or restrict the quality of products to be produced (e.g., restrictions on selling coated strand to certain customers).
- Participating in any plan which has the effect of discriminating against, or excluding competitors, suppliers or customers.

These examples are provided to guide you in your discussions during formal and informal PTI meetings and social events. If the occasion arises, more specific advice will be provided by legal counsel, who is required by Article IV, Section 7 of the PTI By-Laws to be present at all meetings of the Board of Directors and the Executive Committee.

MINUTES

PTI TAB Technical Advisory Board

Thursday, April 22, 2021

2:00 PM – 6:00 PM Eastern

Virtual Convention Meeting via Zoom

Voting Members Present (12 of 12, Quorum for meeting vote = 5)

<u>Don Kline</u> , Chair	Kline Engineering & Consulting
<u>Tim Christle</u> , NV	PTI Staff, NV
<u>Hamid Ahmady</u>	Suncoast Post-Tension Ltd
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<u>Andrea Schokker</u>	University of Minnesota Duluth
<u>Mike Schwager</u>	Schwager Davis, Inc.
<u>Edgar Zuniga</u>	Dywidag Systems International USA

Visitors

John Ma
Eric Ober
Chase Knight
Mehrdad Sasani

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		receipt and review of final VT research report.		
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5.3	TAB Contact Assignments	Replace TAB contact person on DC-25, DC-40, M-10 and DC-20A	Don, Tim	May, 2021
6.2.1	PT Manual 7 th Edition Update	Continue update flow of chapters from authoring through publishing	Tim, All	Ongoing

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A.1 Call to order	A.1 Meeting was called to order at 2:08 PM .
A.2 Introduction / Announcements	A.2
A.3 TAB Roster / Membership Rotation	A.3 The official TAB roster is on the PTI website. Bryan Allred is a new member of TAB – Welcome!

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<p>TAB Member Rotation:</p> <ul style="list-style-type: none"> • 2021: Kline, Zuniga (2008, 2012) • 2022: Hayek (2012), Baxi (2003) • 2023: Illingworth (2015) • Member rotation per TCM <p>The list of potential TAB candidates (no particular order):</p> <ul style="list-style-type: none"> • Bob Sward (Chair M-50) • Jack Graves (Officer) • Drew Micklus • Frank Malits (ACI 318-A, too busy?) • Greg Hunsicker (Chair CRT-40, CRT-70; EC secretary) • Martin Maingot • Jim Donnelly (Chair CRT-60) • Shahid Islam (DSI) • Brian Merrill (WJE) <p>A.4 PTI Antitrust Policy (Exhibit A.4)</p> <p>A.5 Committee Annual Reports</p>	<p>He replaces Bill Klorman who we thank for his contributions during his time with TAB.</p> <p>The new process of getting new members on TAB:</p> <ul style="list-style-type: none"> • TAB to nominate 2 new TAB members • The new Nominating Committee will review the nominations and make recommendations to the Board. • The Board will review the recommendations and vote on the new member appointments. <ul style="list-style-type: none"> • Don Kline potential 1 year extension • Edgar coming off after Committee Days. <p>A.4 All present are reminded of the PTI Antitrust Policy and are asked to adhere to it.</p> <p>A.5 Follow up on annual reports.</p>
<p>B. Agenda & Minutes</p> <p>B.1 <u>Approval of Agenda</u></p> <p>B.2 <u>Approval of Meeting Minutes</u> (Meeting ballot required)</p> <p>B.2.1 Approval of Meeting Minutes from 10/22/20</p>	<p>B.1 Any changes to the agenda?</p> <p>B.2.1 Motion / Second to approve Meeting Minutes from 10/22/20: Andrea / Don I., 12-0-0 (Y-N-A)</p>
<p>C. Actions Taken Between Meetings</p> <p>C.1 <u>Letter Ballots</u></p>	<p>C.1.1 Ballot-TAB-2007-Revised Technical Note 14 Review</p> <p>C.1.2 Ballot TAB-2101 Review of PT Manual Chapters 6, 7, 12</p> <p>C.1.3 Ballot TAB-2102 Review of PT Manual Chapter 13</p> <p>C.1.4 Ballot TAB-2104 Code Change Proposals CT007, TGP002, TGP005, TGP017</p>

Item #	Expected Outcome / Actions Taken
C.2 <u>Web Meetings</u>	C.1.5 Ballot TAB-2103 Dual Banded PT Tech Note Revisions C.2 TAB web meetings were held on 11/20/20, 12/16/20 and 2/11/21.
D. TAB Standing Agenda Items: D.1 <u>TAB PT Code TG:</u> Don Kline (Lead) , Martin Cuadra, Carol Hayek, Rashid Ahmed, Andrea Schokker, Asit Baxi, Frank Malits, Jonathan Hirsch, Miroslav Vejvoda, Tim Christle (Secretary) . D.1.1 TG Meetings	D.1 A new member was invited to join the TG on 4/21/21. Bryan Allred. Summary of items being addressed: <ul style="list-style-type: none"> • 4 proposals balloted thus far • 2 more on deck • 19 total proposals on list so far • 320 code will be referenced directly by 318. Goal is 320-23 and 318-25 at this point. D.1.1 Recurring monthly web meetings were held on 11/5/20, 12/1/20, 1/12/21, 2/2/21, 3/2/21, 4/6/21 and then on 4/21/21 at this convention. Next meeting is set for Tuesday, May 4, 2021
1. Technical Committee Personnel 1.1 <u>Technical Committee Chairs and Missions</u> 1.2 <u>Technical Committee Members</u>	1.1 Current Chairs: PTI website lists all committees with the official rosters, Chairs, and missions. 1.2 Ongoing approval process by Committee Chair and TAB Chair, with staff verification of conflict and/or balance of interest.
2. TAB Initiatives 2.1 <u>Dual banded tendons in two-way slabs</u> 2.2 <u>Construction Joint Couplers</u> 2.3 <u>Post-Tensioned Parking Structures</u>	2.1 Status report <ul style="list-style-type: none"> • Dual banded TN revisions needs final TAB resolution. • Final report coming from Carin (T1-T4) • Papers from Carin (ACI Structural Journal) and then Carin/Jonathan (PTI Journal) 2.2 TG evaluation of CJ couplers Status report <ul style="list-style-type: none"> • Prevalent use in CA. Helps labor and shipping. • Mostly still in slabs. • No need for TN or FAQ now. Hold for future if needed. 2.3 DC-25 Parking Structures Committee, Chair Rashid Ahmed

Item #	Expected Outcome / Actions Taken
<p>2.4 <u>PTI Positions on important issues</u></p> <p>2.4.1 0.7 f_{pu} limit at transfer</p> <p>2.4.2 Restrained vs. unrestrained conditions in 2-way slabs</p> <p>2.4.3 Accelerated Construction</p> <ul style="list-style-type: none"> • Bridges: ABC; precast • Buildings: Peikko; modular; CLT (Cross-Laminated Timber) <p>2.4.4 Environmental Product Declaration (EPD)</p> <p>2.5 <u>DC-80.3 Guide for Evaluation and Repair of PT Structures</u></p> <p>2.6 <u>PTI M-10 & ACI 423.7</u> Watertightness testing of encapsulated tendons</p> <p>2.8 <u>Barrier Cable test for short spans</u> Barrier Cable test for short spans. Asit proposed conducting simple testing of short BC run to establish/verify design criteria. There is disagreement on how to interpret IBC Code language and other industry guidance (PTI manual) for purposes of designing BC.</p> <p>2.9 <u>Other Initiatives?</u></p>	<p>Report: See item 5.1.3</p> <ul style="list-style-type: none"> • Marketing efforts ramping up, focused on recapturing market share. • First cost reduction efforts by TG in progress. • Durability TN about to ballot. • Double cantilever thin deck solution for multifamily and office to compete in that realm. • Don to take request for life cycle cost study funding to EC <p>2.4.1 Code TG handling.</p> <p>2.4.2 Code TG handling. Chapter 18 PT Manual.</p> <p>2.4.3 No action currently.</p> <p>2.4.4</p> <p>2.5 See also item 5.1.7.</p> <p>2.6</p> <p>2.8 Report by Asit Baxi</p> <ul style="list-style-type: none"> • Asit provided an update of his test proposal and setup. • This will be forwarded to TAB for review, 2 weeks. • Testing to occur after review period. <p>2.9 Progressive collapse</p> <ul style="list-style-type: none"> • Get more detail on the possible testing and contributors • Code TG handling. Mehrdad seeking research funding. Open up PT use on hardened structures. Circulate his

Item #	Expected Outcome / Actions Taken
	paper to TAB.
<p>3. Relations with other Organizations</p> <p>3.1 <u>ACI</u></p> <p>3.1.1 ACI 301, Specification for Structural Concrete</p> <p>3.1.2 ACI 318, Structural Concrete Building Code</p> <p>3.1.3 ACI 350, Environ. Eng. Conc. Structures</p> <p>3.1.4 ACI 362, Parking Structures</p> <p>3.1.5 ACI 423, Prestressed Concrete</p> <p>3.2 <u>ICRI</u></p> <p>3.3 <u>IBC</u></p> <p>3.4 <u>AISC</u></p> <p>3.5 <u>ASCE</u></p> <p>3.6 <u>ASBI</u></p> <p>3.7 <u>TRB</u></p> <p>3.8 <u>FIB</u></p> <p>3.9 <u>CSA</u></p> <p>3.10 <u>ACCS</u></p> <p>3.11 <u>Contacts to Spec Writing Agencies</u></p>	<p>3.1.1 ACI 301:</p> <p>3.1.2 See item D.1</p> <p>3.1.3 ACI 350:</p> <p>3.1.4 ACI 362:</p> <p>3.1.5 ACI 423:</p> <p>3.2</p> <p>3.3</p> <p>3.4</p> <p>3.5</p> <p>3.6</p> <p>3.7</p> <p>3.8</p> <p>3.9</p> <p>3.10</p> <p>3.11</p>
<p>4. Technical Committee Procedures</p> <p>4.1 <u>Technical Committee Manual</u></p> <p>4.2 <u>Post-Tensioning Terminology (PTT)</u></p>	<p>4.1 With some changes of the By-Laws, the TCM should now be updated. It was proposed to combine TCM and CCM to avoid unnecessary duplication or inconsistent approach.</p> <ul style="list-style-type: none"> • This will include TG code change proposal process.

Item #	Expected Outcome / Actions Taken
4.3 <u>Membership Appointment Procedures</u>	4.2 This needs to be updated. 4.3
5. Technical Committee Reports	
5.1 <u>PTI Technical Committees</u>	5.1 Reports from committee Chairs / TAB Contacts
5.1.1 DC-10	5.1.1 DC-10, Slab-on-Ground Committee; Chair Tony Childress (Don Illingworth – TAB Contact) •
5.1.2 DC-20	5.1.2 DC-20, Building Design Committee; Chair Carol Hayek •
5.1.3 DC-25	DC-20A, BIM Subcommittee; Chair Frank Malits •
5.1.4 DC-35	5.1.4 DC-35, Prestressed Rock and Soil Anchor Committee; Chair Andy Baxter •
5.1.5 DC-40	5.1.5 DC-40, Bridge Design Committee; Chair Brian Merrill (Mike Schwager – TAB Contact) •
5.1.6 DC-45	5.1.6 DC-45, Cable Stayed Bridge Committee, Chair Gregory Hasbrouck (Mike Schwager – TAB Contact) •
5.1.7 DC-80	5.1.7 DC-80, Repair, Rehab. & Strengthening Committee; Chair Tracy Naso (Don Kline – TAB Contact) •
5.1.8 M-10	5.1.8 M-10, Unbonded Tendon Committee; Chair Michael Williams (Rashid Ahmed – TAB Contact) •
5.1.9 M-50	5.1.9 M-50, Bonded Tendon Committee; Chair Bob Sward (Edgar Zuniga – TAB Contact) •
5.1.10 M-55	5.1.10 M-55, Grouting Committee; Chair Brian Merrill

Item #	Expected Outcome / Actions Taken
<p>5.2 <u>Committees' Annual Reports</u></p> <p>5.3 <u>TAB Contact Assignments</u></p> <p>DC-10: Don Illingworth DC-20: Carol Hayek DC-25: Rashid Ahmed (Jonathan) DC-35: Asit Baxi DC-40: Mike Schwager (John C.) DC-45: Mike Schwager DC-80: Don Kline M-10: Rashid Ahmed (Edgar) M-50 Edgar Zuniga M-55: Andrea Schokker</p>	<p>(Andrea Schokker – TAB Contact)</p> <ul style="list-style-type: none"> • <p>5.2 Committee are asked to submit the Annual Reports.</p> <ul style="list-style-type: none"> • Obtain Annual Reports from all technical committees (TAB contacts and staff) • Don to send email to Chairs reminding them these are due and then we need them on Fall 2021 agenda <p>5.3 There is no need for TAB contact for subcommittees or TGs, although there might be occasionally a need for TAB representation on a subcommittee or TG.</p> <p>When TAB members retire, and new ones join, the TAB contact assignments will be reviewed and revised accordingly.</p> <p>Need to replace Bill Klorman where he was TAB contact on DC-20A and maybe elsewhere. Jonathan will replace Bill.</p>
<p>6. Technical Committee Documents (Open Meeting)</p> <p>6.1 <u>Existing PTI Technical Documents</u></p> <p>6.2 <u>New / Proposed PTI Technical Documents</u></p> <p>6.2.1 TAB.1 PT Manual (a) The process for TAB review of chapters:</p> <ul style="list-style-type: none"> • Ballots 30 days; two chapters at a time • Schedule regular web meetings • Ballot reminders; 2W, 1W, 3D (web balloting) • For each chapter, there are 2 TAB Primary Reviewers • Outside reviewers can be added if needed. Some committees such as DC-20 and DC-80 may have volunteers to review respective chapters. <p>(b) Status Report: Tim Christle</p>	<p>6.1 Existing documents</p> <p>6.2 Proposed documents</p> <p>6.2.1 PT Manual PT Manual Revision</p> <ul style="list-style-type: none"> • Major effort with updating the PTI Flagship document from 2006 • Existing 21 chapters with 4 new ones (Repair, Rehab. & Strengthening; BIM; Anchorage Zone Design; Sustainability) • Tim provided an update <ul style="list-style-type: none"> ○ Status Report spreadsheet reviewed and discussed. ○ Admin help much needed from staff side to help advance during publishing step ○ Chapter 24 Anchorage Zone Design. TG (Asit, Edgar, Zuming) will work to complete this chapter and then have Carin and Gregor review ○ Chapter 8 Seismic Design. Bryan will take over where Cary left off so this can get done. ○ Chapter 18 Fire Resistance. John C. will have Tom Kline review what Dr. Kodur has written thus far. ○ Chapter 22 Repair. Don Kline and Dan Moser will

Item #	Expected Outcome / Actions Taken
	take over incorporating post-review edits to advance this chapter to the next step.
7. Other Publications (Open Meeting) 7.1 New PTI Technical Notes? 7.2 New PTI FAQs? 7.3 PTI <i>JOURNAL</i>	7.1 Tim issued a push to all committees to update their existing Tech Notes and FAQs 7.2 7.3
8. Conventions and Other Meetings (Open Meeting) 8.1 2021 / 2022 Technical Sessions 8.2 2021 Committee Chair Luncheon 8.3 2021 PTI & TAB Awards	8.1 8.2 8.3
9. Educational Items 9.1 Excerpt from the Strategic Plan: <ul style="list-style-type: none"> • Revise and update documents older than 6 years • Revise and update FAQs and TNs older than 4 years • Develop library of selected FAQs with focus on PTI position on all PT applications • Identify research needs for PT • Solicit support from stakeholders for financing, per project • Develop a course for PTI Building Design and compile required webinar modules and course materials • Develop a course for PT SOG Design and compile required webinar modules and course materials 9.2 Design Seminars PTI offers half and full day in-person seminars per special request. Demand raising for online delivery. 9.3 Online Learning Platform	9.1 Coordination with the Education Committee; Professor's Seminar – TAB recommendations: 9.2 Update 9.3

Item #	Expected Outcome / Actions Taken
D. New Business (Open Meeting) D.1 Any New Business?	D.1
E. Next Meeting 2021 PTI Committee Days, Hyatt Regency Coconut Point Resort & Spa, Bonita Springs, FL October 5-8, 2021 E.2 Web Meetings	E.1 E.2
F. Adjourn	F. Meeting adjourned at 4:30 PM CT.

AGENDA / MINUTES EXHIBITS

Exhibit #	Subject
Roster / A.4	Zoom Attendance Report / PTI Antitrust Policy

Meeting ID	Topic	Start Time	End Time
86401950070	TAB	4/22/2021 14:03	4/22/2021 17:32
Name (Original Name)	User Email	Total Duration (Minutes)	
Edgar Zuniga		216	
Tim Christle	tim.christle@post-tensioning.org	210	
Bryan Allred		210	
John Crigler		210	
Mike Schwager		210	
Don Kline		210	
Hamid Ahmady		210	
Carol Hayek		210	
Andrea J Schokker	aschokke@umn.edu	210	
DON's iPad		210	
Jonathan Hirsch		210	
Don Illingworth		209	
Martin Cuadra (Uzun + Case)		208	
Asit Baxi		208	
Sara Steptoe-Campbell	sara.steptoe-campbell@post-tensioning.org	130	
John Ma	zma2@tennessee.edu	10	
Eric Ober	erober@sgh.com	4	
Chase Knight		3	
Mehrdad Sasani		3	
Chase Knight - FDOT		1	

At a meeting on October 8, 1980, the Board of Directors first discussed the Institute's status and policies regarding compliance with antitrust laws. After review of both the internal and external compliance procedures, the following resolution was approved:

"The staff, officers, directors and members of the Post-Tensioning Institute are reminded that they are required to comply with the spirit and specific requirements of the antitrust laws on all activities within the scope of, and related to, the official functions of PTI. Further, this restated position, along with appropriate explanatory material, should be placed in all meeting folders/books periodically, beginning with the 8th of October meeting of PTI."

On July 24, 2012 and again on October 7, 2015, the Executive Committee authorized Legal Counsel to review and update this Policy Statement in the perspective of the Department of Justice Business Review Letter of July 30, 1997 and current case law. As a continuing guide for your participation in PTI's meetings, please review and continue to adhere to the following "Legal Limitation on Discussions at PTI Meetings."

LEGAL LIMITATION ON DISCUSSIONS AT PTI MEETINGS AND EVENTS

A free exchange of ideas on matters of mutual interest to the members is necessary for the success of all meetings. Indeed, such an exchange of views is essential to the successful operation of every trade association and the law specifically allows legitimate exchange of views pertaining to, e.g., quality control, safety, building design and construction integrity, etc.

It is not the purpose of this memorandum to discourage the exploration in depth of any matters of legitimate concern to meeting participants. Nevertheless, to ignore certain antitrust ground rules, either through ignorance or otherwise, is to create a civil and criminal hazard businessmen simply cannot afford.

It is for these reasons that PTI provides you with a reminder that certain areas of formal and informal communication between competitors or between manufacturers and their suppliers and customers must be avoided, as posing potential antitrust problems.

The Sherman Antitrust Act, the Clayton Act, the Federal Trade Commission Act, and the Robinson-Patman Act comprise the basic federal antitrust laws, which set forth the broad areas of conduct considered illegal as restraints of trade. In general, agreements or understandings between competitors that operate as an impediment to free and open competition are forbidden. Federal antitrust prohibitions forbid any "agreement or understanding...to substantially lessen competition or tend to create a monopoly in any line of commerce." An important point to keep in mind is that communications and discussions between competitors or between sellers and customers, about matters which may be considered anti-competitive, often comprise the evidence from which courts infer antitrust violations. ***It is the policy of the Post-Tensioning Institute that such agreements, understandings or communications shall not be tolerated at any formal or informal meetings or social events of the Institute.***

The general prohibitions contained in the federal antitrust laws, have been particularized in the form of a series of consent decrees, originally entered against a number of member companies of various trade associations and the associations themselves. It is important to note that these laws not only apply to PTI members, but also to PTI itself. Often trade associations have been and are presently co-defendants in cases brought by the Justice Department and the Federal Trade Commission ("FTC"). Recently, the FTC has stated: "*Because trade associations are by their nature collaborations among competitors, the Commission and courts have long been concerned with anti-competitive restraints imposed by such organizations under the guise of codes of conduct. Competing for customers, cutting prices, and recruiting employees are hallmarks of vigorous competition. Agreements among competitors not to engage in these activities injure consumers by increasing prices and reducing quality and choice.*" Similar "codes" or policies and requirements that encourage directly or indirectly members' unlawful activity are strictly forbidden by PTI in the course of its business with its members.

SPECIFIC EXAMPLES OF ACTIVITIES AND PRACTICES PROHIBITED

AT ALL PTI MEETINGS AND EVENTS:

Included in activities and practices which are forbidden, and are contrary to the policy of the Institute, both under the general antitrust laws and the consent decrees, subject to the said Business Review Letter, are the following:

- Agreeing to allocate markets, customers or suppliers among competitors, classify certain customers or suppliers being entitled to preferential treatment by manufacturers, and establish geographic trading areas.
- Participating in any plan designed to induce any manufacturer or distributor to sell or refrain from selling, or discriminate in favor of, or against any particular customer or class of customers.
- Agreeing in any manner to fix or otherwise establish bids, prices (including price increases, decreases, standardization or stabilization), profits, costs, contract terms affecting price (such as discounts and credit terms), etc. because, e.g. prices were too low, with the exception of certain resale pricing agreements between manufacturers and retailers or distributors.
- Agreeing in any manner to limit or restrict the quality of products to be produced (e.g., restrictions on selling coated strand to certain customers).
- Participating in any plan which has the effect of discriminating against, or excluding competitors, suppliers or customers.

These examples are provided to guide you in your discussions during formal and informal PTI meetings and social events. If the occasion arises, more specific advice will be provided by legal counsel, who is required by Article IV, Section 7 of the PTI By-Laws to be present at all meetings of the Board of Directors and the Executive Committee.

PTI TAB TG Code Change List for ACI 318-T and ACI/PTI 320

Status Report

9/7/21

PROPOSALS IN DEVELOPMENT						
Change Proposal	Lead	Title	Code Sections	Coordination	Code	Status
TGP001	Asit, Dirk Bondy, Hamid Ahmady	Drops and definition of Acf	Table 8.6.2.3 (?)	Sub B?	318	Asit has done more FE modeling. He may break up the language for specific situations. Also look at 9.6.3.1 when reviewing this issue.
TGP003	Asit, Rashid, Joe Ferzil & Dirk Bondy,	Diaphragms with unbonded PT	R12.5.1.4	320		They met to discuss this further. Joe is working on a piece of this. Some draft language is in the works. Bryan will check with Dirk on status. Bryan's 6/1/21 email states "According to Dirk, Joe was going to start the ball rolling, so we are apparently waiting on him." Tim to reach out to Joe as well. On 7/8/21 Joe said he'd send draft to group. He intends to send commentary change proposal to 318-T. Tim reach out again. Check on sub 318 seismic too. Maybe aim to delete it from 318 and then add commentary to 320 to clarify issue. Tim emailed Joe again on 8/11/21. No response. Bryan's version will be what we proceed with at this time.
TGP004	Carol, Panian, discuss at DC 20, Anantha, Don	Vertical PT in columns and walls		320		Anantha will work with Carol on this. Compression limits in vertical elements. No real publications on this so far. Maybe a technical paper before adding to code. ACI 372R. ACI 550.7 document. Charles Pankow research paper.
TGP006	Frank, Asit	Strength at stressing acceptance criteria	26.10.2	320		Priority. Holding on this one. How to bring cylinders for convenience into 318 being investigated. 318-A working on this. Frank update on this. Sub-A ballot upcoming. Cylinders to be minimum strength value provided by LDP. Frank will share this proposal with the TG.
TGP007	Asit	Anchorage zone tie-back reinforcement for added tendons		320	coordinate with 318/320	Asit needs software for modeling this zone. SAP2000+? Brick elements. Maybe Don and Martin can assist.
TGP008	Asit, Rashid	Temperature & shrinkage minimum in cone area at edge of slab	24.4.4?	320		Some FE analysis has started. Need to codify. Hoping to get this one ready in the next two weeks. Asit to Rashid this week hopefully, then to Tim. Follow up with a paper published in PTI Journal. Asit almost done. Asit submitted draft today for review by Tim and Rashid.
TGP009	Check with Don on who initiated this one	Anchorage zone reinforcement in banded tendons in area of columns		320		Low priority. Skip for now, don't recall who initiated this.

TGP010	Jonathan, Asit	Development of non-PS reinforcement in two-way slabs	8.7.5.2, R8.7.5.2	320		Code change proposal will be drafted. More research needed to find origins in the code. Jonathan still working on research side with Asit. Still researching history. Asit and Jonathan will discuss further this week. May need to be selective in what provisions should change. Asit, Jonathan and Tim met 7/23/21 to discuss further. Follow ups ongoing from that meeting. Asit checked in with Ken Bondy. Good feedback on history of change. Resorting of what was intended is needed.
TGP012	Asit, Joe, Dirk, Jonathan	Minimum P/A requirements two-way slabs with wide shallow drops.	8.2.3	320	coordinate with 318/320	Last item covered on 12/1/20. Related to TGP019. Also related to TGP001. Modeling underway and drafts in progress.
TGP013	Asit, Joe, Dirk, Jonathan	Calculation of P/A and restraint issues		320	coordinate with 318/320	No update thus far. Be careful to restrict the LDP too much with code. Perhaps continue to address restraint issues but don't force P/A calculation. Maybe PTI TN would be helpful. Just language aimed at the LDP. Clarifying commentary language needed.
TGP015	Carin and DC-20 Dual Banded TG. Jonathan, Hamid and Asit proposal writers.	two-way banded	8.7.2.3	320	coordinate with 318/320	Carol will coordinate with Carin to see where things stand. Tim to check with NYC code change group. Needs to be written to cover hybrid situations between the current code and full dual banded. This was the last we discussed on 4/21/21. Draft in progress.
TGP016	Martin C.	Fire rating consistency in PS		Sub P (or if PT only, send to 320)	320	216 has info. IBC conflict. Research at Johns Hopkins and also by Thomas Kang in Korea. Carol will touch base with sources as well. Carol will send summary she has to Trey. Trey will check with ACI 216 committee as well. Issue is very important and should be a priority. Asit will reach out to Venkatesh. Martin will reach out to Thomas K. to discuss further. Check on research status. Martin reached out to Thomas. Thomas sent him summary information from the fire tests they did. Martin will email this to Tim, then Tim will forward to TG. Submit analytical research funding proposal to PTI EC/Board. Pursuing analytical study next. Need to formalize proposal scope, timing and cost. Tim to check with Tony regarding Board action timeline. Research how P/C was able to justify restrained end bay (Don will talk to Martin more about this). Can PT leverage this information as well?

TGP020	Carol, Frank, Miroslav, Ken?	PT Slab-on-Ground	1.4.6, 1.4.8	318	318 & 320	New ballot item at 318 per Carol's 6/18/21 email. Frank was the author of that 318 code change proposal related to 1.4.8. We should also look at all of Section 1.4 and make sure PT SOG is handled clearly and correctly. Light commercial buildings need to be clarified too. <i>Maybe Miroslav and Ken Bondy take the lead on this? Frank to have conference call with Miroslav and Carol end of this month to help resolve current 318 ballot. Need to fix 318 and then also make 320 have appropriate wording.</i>
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PROPOSALS READY FOR TG BALLOT

Change Proposal	Lead	Title	Code Sections	Coordination	Code	Status

PROPOSALS IN TG BALLOT PHASE

Change Proposal	Lead	Title	Code Sections	Coordination	Code	Status
TGP011	Martin C., Dirk, Asit. See also CT005.	Integrity tendons in two-way slabs	8.7.5.6.2, R8.7.5.6.1, R8.7.5.6.2	320		Integrate CT005 into it and work with it as TGP011 from now on. Need code provision that works for both banded/distributed and banded/banded. Try to get rid of the weaving aspect. Per Carol in her 6/9/21 email. "Hi everyone, no work has been done on CT005 in 320. This was sent straight form 318T to TAB as there was no resolution in 318T." Submitted for review by Martin on 7/22/21.
TGP014	Asit, Martin C.	Minimum spacing unbonded slabs	7.7.2.3	320		This pertains to the rebar requirements. Do we want to push to 4h or 24"? Put this in 320. 318 shot this down. PT floors in 320. Almost done and Asit will send to Tim soon. Asit sent version ready for ballot to Tim on 6/6/21. Tim will ready this for ballot by itself.
TGP018	Carol	Structural integrity bonded nonprestressed reinforcement at column/slab intersection. Remove 352 reference in commentary.	8.7.5.6.3.1	318-T issue but also will be in 320 eventually		This is related to ACI 352 requirement. Carol will connect with Mary Beth Hueste at 352 to discuss this further. 318 commentary is where the issue seems to be. Need update from Carol.
TGP019	Asit	If less than 125 psi, must be designed as N/P	8.2.3	318		Unintentional change between 318-11 and 318-14. See also Asit's work on TGP001. Still in progress. Submitted for review by Asit on 8/3/21.

PASSED/RESOLVED PROPOSALS READY FOR ADVANCEMENT TO ACI COMMITTEES

Change Proposal	Lead	Title	Code Sections	Coordination	Code	Status
TGP002	Don, Rashid, Martin C.	Corner restraint in slabs	8.7.3	Sub B	For "non-prestressed" in 318T (Send to 318-T)	Don to develop Code Change. Should be okay to proceed with TG balloting. Included in TAB Ballot 2104 on 2/12/21. Don emailed final version proposal on 7/4/21, ready to send to 318-T. Tim as Secretary (official process) will forward to 318-T.

TGP005	Carol, Zuming Xia, Rashid Ahmed, Miroslav	Elongation compliance inconsistencies	26.10.2	320	(Send to 320)	Carol will send proposed language. Priority. Included in TAB Ballot 2104 on 2/12/21. Moving this to 320 and not touching the precast part. Need final version proposal with TAB resolutions incorporated so it can officially be sent on to 320. Received from Carol 7/23/21.
TGP017	Andrea, CT-008, Asit	stress at anchorage? 0.70 Fpu issue.		318-T issue	(Send to 318-T)	Andrea will get this out here in January. Included in TAB Ballot 2104 on 2/12/21. Need final version proposal with TAB resolutions incorporated so it can officially be sent on to 318-T.
CT007	Carol, Dirk Bondy (Martin C. working on this one as well)	Definition of Beams in PT floor systems	2.3		320 (Send to 320)	Language is nearly ready for ballot in this TG. Code needs to have a definition of two-way beams. Included in TAB Ballot 2104 on 2/12/21. Figures should only show PT, not rebar. Bryan emailed revised sketches on 6/1/21. Need final version proposal with TAB resolutions incorporated so it can officially be sent on to 320. Received from Carol 7/23/21.

PROPOSALS IN PROCESS BEFORE TG FORMATION

Change Proposal	Lead	Title	Code Sections	Coordination	Code	Status
CT001	(led from 318-C -- resolved through Steve Seguirant)	Deflection calculation extension to PS concrete	24.2.3.9, R24.2.3.9	Sub C (balloted), Sub P (balloted)	318 & 320	sent to 318 for ballot (complete) Already balloted through 318.
CT002	Joe Ferzil & Dirk Bondy	Seismic Design of Post-Tensioned Gravity Beams	18.14.3.2a	Sub H, Sub P	320	discuss then send to 320. Carol will make modifications. Ready to move forward to 320 next. Change from d to h.
CT003	Dirk Bondy	Vc Calculations in Post-Tensioned Concrete Beams	22.5.6	Sub E, Sub P: check with Dave Sanders and 445 test database (both 319 and 320)	318	Discussions between Dirk and Kang to resolve shear equations. Andrea is coordinating this item as it affects 319 and 320 differently.
CT004	Dirk Bondy	T-Beams in Post-Tensioned Concrete	6.3.2.3		320	This will go to ballot in 320. This is ready to move forward to 320 next.
CT005	Dirk Bondy/Asit	Modification of Integrity Tendon Requirements	8.7.5.6.2, R8.7.5.6.2		320	Resolve language for change proposal. Balloted at 318-T. Did not resolve the ballot. Carol has all the comments. She will send assembled document to Dirk, Asit, Martin C. See TGP011 noted above.
CT006	Rashid Ahmed	Maximum fy for diaphragm calculations	12.5.1.5, 18.12.7.2	seismic? 318-H	318 & 320	Ready for 318 (complete). Investigate higher fy for bonded strand Moved forward to 318 Already sent to 318 ballot. Already went through 318-T.

PTI TAB.1-XX Post-Tensioning Manual, 7th Edition Update
Status Report
10/7/2021

Chapter Number	Chapter Title	7th Edition Author(s)	TAB Primary Reviewers	Outside Reviewers	Action Notes
Chapter Update Editing In Progress					
1	Introduction	Johnson			
2	Applications	Johnson			
3	Post-Tensioning Systems	Dowell			Rough draft has been completed.
4	Specifying Post-Tensioning	Christle			
16	Design of Prestressed Barrier Cable Systems	Baxi			Waiting on BC testing completion and final edits to TN14
20	Inspection	Vejvoda, Dowell			Dowell is going to update this instead of Vejvoda.
21	PTI Certification Programs	Vejvoda			Rough draft has been completed.
24	Anchorage Zone Design - Strut and Tie Modeling	Wollmann, Baxi, Zuniga, Xia	Schwager	C.R. Wollmann, G. Wollmann	TG will update this instead of C.R. Wollmann. Tim sent Asit some documents, still looking for original figures. TG working on update. Next meeting 10/14/21.
Final Draft Submitted for Review					
TAB Review In Progress					
TAB Review Complete					
6	Detailing and Construction Procedures for Buildings	Baxi	Kline, Allred	Xia, Yerges, Ahmed	Need to have review resolution meeting.
7	Design Examples	Bondy, DC-20 TG, Christle	Cuadra, Baxi	Ober, Chittur, Maingot	Need to have review resolution meeting.
12	Bridges	Schokker	Schwager, Zuniga	Spaans, White, Salvadori	Need to have review resolution meeting. Review participation low. Schwager added his review.
13	Stay Cables	Hasbrouck	Schwager, Crigler	Soule, Bergman, Larose	Need to have review resolution meeting. Review participation low.
TAB Review Resolution Meeting Complete					
8	Seismic Design of PT Concrete Structures	Kopczynski, Allred	Ahmed	Maingot, Boyd, Allred, Kopczynski	Allred will take over revisions and then Kopczynski can review. Tim sent Bryan files on 4/28/21.
18	Fire Resistance	Kodur	Baxi, Cuadra	Pessiki, T. Kline	Tom Kline to review as well. Needs post-review revisions. Tim sent current document to John Crigler for him to send to Tom Kline for review.
22	Repair, Rehabilitation and Strengthening of Structures	Kline, Moser	Kopczynski, Ahmed	Greenhaus, Ahmady, Donnelly	Kline and Moser will take over revisions. Tim sent Don files on 5/10/21.
Post-Review Revisions Complete					
10	PT Parking Structures	Ahmed, Schneeman	Illingworth, Cagley	Schwarz, Cuadra, Allred, Ober	Christle finalizing for ballot.
11	PT Slabs-on-Ground	Childress	Illingworth	Parker, Read, Overton	Christle finalizing for ballot.
19	Durability	Schokker, Schneeman	Schwager, Zuniga	Maingot, Boyd, Leistikow, Hunsicker, Freeby	Christle finalizing for ballot.
25	Sustainability	Hayek, Schokker	Cuadra, Baxi	Maingot, Neelamegam, Buffenbarger	Christle finalizing for ballot.
TAB Ballot In Progress					
TAB Ballot Complete					
TAB Ballot Resolution Complete					
5	Analysis and Design Fundamentals	Bondy, Hirsch	Kline, Baxi	Allred, Ahmady, Munuswamy	Christle working on final revisions required for publishing. New PTI Staff member Olivia Cell can now help Tim with this.
14	Storage Structures	Close	Illingworth, Zuniga	Galterio, Bates	Christle working on final revisions required for publishing. New PTI Staff member Olivia Cell can now help Tim with this.
15	Rock and Soil Anchors	Niermann	Crigler, Zuniga	Niermann, Printz, McCray	Christle working on final revisions required for publishing. New PTI Staff member Olivia Cell can now help Tim with this.
17	Prestressed Concrete Under Dynamic Loads and Fatigue	Kang	Schokker, Hayek	Musselman, Hirsch	Christle working on final revisions required for publishing. New PTI Staff member Olivia Cell can now help Tim with this.
Final Revisions Complete, Ready for Publishing					
9	PT Concrete Floors	Bondy, Hirsch	Kline, Hayek	Cuadra, Ahmady, Leys	Publishing started, some images need work. New PTI Staff member Olivia Cell can now help Tim with this.
Chapter Publishing Complete					
23	Building Information Modeling	DC-20A	Klorman, Cuadra	Leys, Neelamegam, Suarez	Template for all chapters has been set.