

**AGENDA**

**DC-20: Building Design Committee**

Tuesday, April 20, 2021

10:00 a.m. - 1:00 p.m. Eastern

Virtual Convention Meeting via Zoom

**Voting Members Present (X of 13)**

Carol Hayek - Chair CCL	Bryan Allred Seneca Structural Engineering Inc.	Don Kline Kline Engineering and Consulting, LLC
Tim Christle Post-Tensioning Institute Representative	Asit Baxi Baxi Engineering Inc.	Frank Malits Cagley and Associates Inc.
Hamid Ahmady Suncoast Post-Tension Ltd	Martin A Cuadra Uzun and Case, LLC	Martin Maingot - Secretary SCA Consulting Engineers
Rashid Ahmed Walker Consultants	Jonathan Hirsch Bentley Systems, Inc.	Eric Ober SGH
	Thomas Kang Seoul National University	Zuming Xia Structural Technologies, Inc

**Associate Members Present**

Joseph Ales Walter P Moore and Assoc Inc	Pawan Gupta Pcubed Associates, Inc.	Srinivasan Neelamegam CCL USA
Ryan Bonniwell Ericksen Roed and Associates	Mary Shinnors PES Structural Engineers	Otto Schwarz Ryan Biggs Clark Davis Engineering and Surveying
Kyle Boyd Prescient	Carine Magalhaes Leys Odeh Engineers	Roberto Suarez MartinMartin
Anantha Chittur BASE	Marcos Martinez Stanley D. Lindsey & Associates	Will McDevitt Buro Happold
Michael Hopper LERA	Siva Munuswamy DDA Claims Management	Mark Yerges CVM Engineers, Inc.
Chad Andrew Konger Strand Systems Engineering		

**Visitors**

**ACTION ITEMS FROM LAST / THIS MEETING**

Item #	Subject	Action	Responsible	Deadline / Completed
1	Design Webinar Modules	Modules under review by EDC-130	EDC-130 and PTI Staff	Ongoing
2	PTI DC20.2-88: Restraint Cracks and their Mitigation	Resolve TAB ballot	PTI Staff and TAB	December, 2020
3	DC20.7-01: Design, Construction and Maintenance of CIP PT Concrete Parking Structures	Confirm joint committee effort with DC-25 and form a Task Group (with members from each committee) to begin working on it.	PTI Staff	On Hold
4	ACI 318 Reference	Publish PTI Journal article on changes between 318-14 and 318-19	PTI Journal Staff	December, 2020
5	PT Manual 7 <sup>th</sup> Edition	Summary of chapters being authored by and reviewed by DC-20 members	All	Ongoing
6	Dual-Banded PT Layout	Dual Banded TG to hold web meetings to analyze other conditions and work to publish Tech Note	Dual-Banded TG	December, 2020
7	Temperature Tendons	Submit final Tech Note to TAB	PTI Staff	Ongoing
8	Structural Detailing for PT Buildings	Tim continuing discussions with PT suppliers to obtain their input on problematic details. Ultimate publication goal is before the end of 2021	PTI Staff	Ongoing
9	Update from DC-20A BIM Subcommittee	IFC in Exchange Model work with ACI 131 in progress	Malits	Ongoing
10	FAQ: Two-way PT slabs restraint effects exclusion, 125 psi min.	Write initial draft of FAQ to provide technical guidance on this subject	Hirsch	On-Hold

11	FAQ: Restrained vs. Unrestrained	Write FAQ based on ACI 216 provisions  DC-20 members to review draft document posted on committee web page and give comments	Cuadra/Munuswamy	Ongoing  Ongoing
D.1	Review of documents and identification of those in need of revision	Determine the next top priorities for updates to DC-20 publications	All	Ongoing
D.2	FAQ for practical vs. ACI 318 provisions for column punching shear integrity reinforcement in PT slabs	Determine need for FAQ to address this issue or push to TAB TG on code changes	All and Bryan Allred	Ongoing
D.3	FAQ for ACI 318 8.6.2 provision for minimum P/A and bonded reinforcement	Determine need for FAQ to address this issue or push to TAB TG on code changes	All	Ongoing
D.5	2018 IBC SEAOC Structural/Seismic Design Manual Example 4	Potential DC-20 Tech Note	Bryan Allred and Dirk Bondy	December, 2020
D.6	Vertical PT in columns and walls	Carol looking for input from this group for buildings. May push to TAB TG on code changes.	Carol	Ongoing

Agenda Item	Expected Outcome / Actions Taken
<b>A. General</b> A.1 Call to Order A.2 Introductions A.3 Committee Roster / Changes A.4 PTI Antitrust Policy	A.1  A.2  A.3 We welcome new Associate Members Will McDevitt, Pawan Gupta and Mary Shinnars to DC-20. We thank departing members Ralf Leistikow, Todd Whisenhunt, Spencer Lee and Rafael Machado for their service and contributions to DC-20.

Agenda Item	Expected Outcome / Actions Taken
	A.4 Policy reminder included with agenda.
<b>B. Agenda &amp; Minutes</b> B.1 Approval of Agenda B.2 Approval of Minutes from 10/20/20 (Meeting ballot required)	B.1 B.2 Vote on approval of Minutes from 10/20/20 Virtual Convention Meeting Motion / Second: <b>Name / Name</b> Result: <b>X-X-X (Y-N-A)</b>
<b>C. Actions Taken Between Meetings</b> C.1 Letter Ballots C.2 Web Meetings	C.1 Ballot DC-20-2001-Dual Banded PT Tech Note Revisions C.2 Web meetings were held by DC-20 on 1/20/21 and 3/5/21 and by the Dual Banded TG on 11/9/20, 2/4/21 and 4/8/21.
<b>1. Action Item 1: (Design Webinar Modules)</b> 1.1. Module production	1.1 EDC-130 review of 10 modules complete. Modules need revision in coordinated effort between DC-20 and EDC-130. EDC-130 currently working on Module 5.
<b>2. Action Item 2: (PTI DC20.2-88, Restraint Cracks and their Mitigation)</b> 2.1. Review progress 2.2 Need to publish updated document as DC20.2-XX	2.1 Document has entered publishing stage after finally passing DC-20 and TAB. Publish in 2021.
<b>3. Action Item 3: (DC20.7-01, Design, Construction and Maintenance of CIP PT Concrete Parking Structures)</b> 3.1 On Temporary Hold 3.2 Form a Joint Committee Task Group	3.1 This is on-hold until other DC-20 publication priorities have been cleared. This document will likely require a Joint Committee effort (DC-20 and DC-25) to update it. 3.2 Most likely a Joint Task Group consisting of members from each committee will be formed. Update of this document remains a PTI Board priority. It will be based on ACI 318-19 and latest ACI 362.
<b>4. Action Item 4: (ACI 318 Reference – New PTI publication)</b> 4.1 Update on status	4.1 Asit article on changes from 318-14 to 318-19 was published in the PTI Journal in 2020.
<b>5. Action Item 5: (PT Manual 7<sup>th</sup> Edition)</b> 5.1 Review progress 5.2 Plan for review process	5.1 Tim to provide update on TAB review ballot progress to date; PTI major priority with on-going balloting cycle. 5.2 PT Manual 7 <sup>th</sup> Edition goal to publish ASAP. The list below represents a summary of the “DC-20 reviewers” responsibility matrix in

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	<p>item 5.1 with remaining Chapters to be released for review.</p> <p><b>TAB ballot complete and publishing in progress:</b>  <u>Chapter 9</u>: PT Concrete Floors; Hamid, Carine  <u>Chapter 23</u>: BIM; Carine, Srini, Rob  <u>Chapter 5</u>: Analysis and Design Fundamentals; Martin C, Jonathan Hamid and Siva  <u>Chapter 17</u>: Prestressed Concrete Under Dynamic Loads and Fatigue; Hayek, Schokker, Hirsch</p> <p><b>TAB ballot in progress:</b>  <u>Chapter 10</u>: PT Parking Structures; Otto, Martin C, Bryan, and Eric  <u>Chapter 19</u>: Durability (buildings &amp; bridges); Martin M, Kyle B, Ralph L  <u>Chapter 25</u>: Sustainability; Martin M, Srini</p> <p><b>TAB review complete:</b>  <u>Chapter 18</u>: Fire resistance – Martin C; CRSI to potentially assist with review  <u>Chapter 8</u>: Seismic Design of PT Concrete Structures; Martin M, Bryan Allred, Kyle B  <u>Chapter 7</u>: Design examples; Siva and Eric. Anantha and Chad also volunteered.  <u>Chapter 6</u>: Detailing and Construction Procedures for Buildings; Zuming, Mark, Rashid; (Brian Allred volunteered to review)</p> <p><b>TAB review in progress:</b></p> <p><b>Still due from authors:</b>  <u>Chapter 24</u>: Anchorage Zone Design; Zuming, Siva;  <u>Chapter 16</u>: Design of Prestressed Barrier Cable Systems; reviewers TBD</p>
<p><b><u>6. Action Item 6: (Dual-Banded PT Layout)</u></b>  6.1 Review progress of testing  6.2 Review progress of Tech Note</p>	<p>6.1 Testing is complete. Awaiting final report from VT.</p> <p>6.2 Ballot TAB-2103 Dual Banded PT Tech Note Revisions will be resolved in a TAB web meeting after the convention.</p>
<p><b><u>7. Action Item 7: (Temperature Tendons)</u></b>  7.1 Review progress of Tech Note</p>	<p>7.1 No further progress due to other priorities. This will be added to the Tech Note Update action item and should be handed over to a DC-20 Task Group.</p>
<p><b><u>8. Action Item 8: (Structural Detailing for PT Buildings)</u></b>  8.1 Review progress of proposed new publication</p>	<p>8.1 No further progress due to other priorities. This publication would benefit from being handed over to a DC-20 Task Group.</p>

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<p><b><u>9. Action Item 9: (Update from DC-20A BIM Subcommittee)</u></b>            9.1 Update on current work of the BIM subcommittee</p>	<p>9.1 Subcommittee Chair Malits to provide a brief update on current work of DC-20A.</p>
<p><b><u>10. Action Item 10: (FAQ or Tech Note, two-way PT slabs, exclusion of restraint effects in the min 125 psi calculation)</u></b>            10.1 Document update</p>	<p>10.1 This item has been transitioned to the TAB TG on Code Change Proposals for ACI 318-T and ACI/PTI 320. Close from DC-20.</p>
<p><b><u>11. Action Item 11: (Restrained vs. Unrestrained FAQ)</u></b>            11.1 Document update</p>	<p>11.1 Continue to create an FAQ from DC-20? If so, move to Action Item 13 below. Or transition to TAB TG on Code Changes?</p>
<p><b><u>12. Action Item 12: (Determine next DC-20 Publication Update Priority)</u></b>            12.1 Set next priority.</p>	<p>12.1</p>
<p><b><u>13. Action Item 13: (Update DC-20 Tech Notes and FAQs)</u></b>            13.1 Form Task Groups             13.2 List of other new TNs or FAQs proposed</p>	<p>13.1 Form a Tech Note Task Group and a FAQ Task Group and begin the process of reviewing and updating all DC-20 related TNs and FAQs for rapid gains.</p> <ul style="list-style-type: none"> <li>• <b><u>DC-20 Building Design Committee</u></b> <ul style="list-style-type: none"> <li>○ <b>FAQ 5</b> - Shrinkage and Temperature Reinforcement (2007)</li> <li>○ <b>FAQ 9</b> - Shrinkage and Temperature Reinforcement in Two-Way Post-Tensioned Slabs (2010)</li> <li>○ <b>FAQ 10</b> - The Use of Drop Caps to Reduce Flexural Reinforcement in Two-Way Post-Tensioned Slabs (2010)</li> <li>○ <b>FAQ 14</b> - Key Sustainability Benefits of Post-Tensioned Concrete (2014)</li> <li>○ <b>Tech Note 1</b> - Effective Width and Post-Tensioning (1993)</li> <li>○ <b>Tech Note 3</b> - One-Way and Two-Way Post-Tensioned Floor Systems (1993)</li> </ul> </li> </ul>

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	<ul style="list-style-type: none"> <li>○ <a href="#">Tech Note 4</a> - Strength Evaluation of Existing Post-Tensioned Beams and Slabs, Analytical Approach (1994)</li> <li>○ <a href="#">Tech Note 5</a> - Unbonded and Bonded Post-Tensioning Systems in Building Construction, A Design and Performance Review (1994)</li> <li>○ <a href="#">Tech Note 7</a> - Hyperstatic (Secondary) Actions in Prestressing and Their Computation (1998)</li> <li>○ <a href="#">Tech Note 8</a> - Layout of Post-Tensioning and Passive Reinforcement in Floor Slabs (2000)</li> <li>○ <a href="#">Tech Note 10</a> - Prestress Losses in Post-Tensioned Structures (2000)</li> <li>○ <a href="#">Tech Note 11</a> - Design of Concrete Floors, With Particular Reference to Post-Tensioning (2001)</li> <li>○ <a href="#">Tech Note 17</a> - Specifying Post-Tensioning Requirements for Buildings: Force or Number of Tendons? (2013)</li> </ul> <p>13.2 Other new TNs or FAQs proposed:</p> <ul style="list-style-type: none"> <li>• FAQ for practical vs. ACI 318 provisions for column punching shear integrity reinforcement in PT slabs. Or push to TAB TG on Code Changes?</li> <li>• FAQ for ACI 318 8.6.2 provision for minimum P/A and bonded reinforcement. This has been pushed to TAB TG on Code Changes.</li> <li>• Vertical PT in columns and walls. This has been pushed to TAB TG on Code Changes.</li> <li>• Dual banded system will need revised integrity tendon language. Push this to TAB TG on Code Changes.</li> <li>• Tech Note to address 2018 IBC SEAOC Structural/Seismic Design Manual Example 4. Bryan Allred and Dirk Bondy.</li> </ul>
<p><b>14. <u>Action Item 14: (Mission Statement)</u></b> 14.1 Establish updated mission statement for the committee.</p>	<p>14.1</p> <ul style="list-style-type: none"> <li>• Existing mission statement is: Develop and report information on the design of post-tensioned buildings.</li> <li>• Proposed <u>new</u> mission statement is: Develop, research, promote and report information on the design, detailing and use of post-tensioning in buildings.</li> </ul>
<p><b>D. <u>New Business</u></b>  D.1</p>	<p>D.1</p>

Agenda Item	Expected Outcome / Actions Taken
<b>E. <u>Next Meeting</u></b> 2021 PTI Committee Days, Hyatt Regency Coconut Point Resort & Spa, Bonita Springs, FL October 5-8, 2021  <b>Web Meetings:</b>	E.1
<b>F. <u>Adjourn</u></b>	Meeting adjourned at

**AGENDA / MEETING EXHIBITS**

Exhibit #	Subject
Roster / A.4	<del>Sign-In Sheet</del> / PTI Anti-Trust Policy
B.2	210419 DC-20 Minutes 10-20-20 Unapproved.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**

**DC-20: Building Design Committee**

Tuesday, October 20, 2020

12:00 p.m. - 4:00 p.m. Eastern

Virtual Convention Meeting via Zoom

**Voting Members Present (13 of 13)**

Carol Hayek - Chair  
CCL

Bryan Allred  
Seneca Structural Engineering  
Inc.

Don Kline  
Kline Engineering and Consulting,  
LLC

Tim Christle  
Post-Tensioning Institute  
Representative

Asit Baxi  
Baxi Engineering Inc.

Frank Malits  
Cagley and Associates Inc.

Hamid Ahmady  
Suncoast Post-Tension Ltd

Martin A Cuadra  
Uzun and Case, LLC

Martin Maingot - Secretary  
SCA Consulting Engineers

Rashid Ahmed  
Walker Consultants

Jonathan Hirsch  
Bentley Systems, Inc.

Eric Ober  
SGH

Thomas Kang  
Seoul National University

Zuming Xia  
Structural Technologies, Inc

**Associate Members Present**

Joseph Ales  
Walter P Moore and Assoc Inc

Spencer Lee  
ADAPT Structural Concrete  
Software

Srinivasan Neelamegam  
CCL USA

Ryan Bonniwell  
Ericksen Roed and Associates

Rafael Machado  
Ellinwood Machado, LLC

Otto Schwarz  
Ryan Biggs Clark Davis  
Engineering and Surveying

Kyle Boyd  
Prescient

Carine Magalhaes Leys  
PT Structures

Roberto Suarez  
Martinmartin

Anantha Chittur  
BASE

Marcos Martinez  
Stanley D. Lindsey & Associates

Todd Whisenhunt  
Thornton Tomasetti

Michael Hopper  
Leslie E. Robertson Associates

Siva Munuswamy  
Company

Mark Yerges  
CVM Engineers, Inc.

Chad Andrew Konger  
Strand Systems Engineering

## Visitors

Ron Harder	Joe Ferzli	Gregory Hunsicker
Shin-Ho Chao	Mehrdad Sasani	BJ Evans
Larry Krauser	Michael Russillo	David Peralta
Gannon Stromquist-LeVoi	Harley Nethken	Mhnd Tibi
Lance Osborne	Mary Shinnors	John Vogel
Kwok Tam	Javier Nieto	Harry Sumartono
Josh Winchester	Gillian Love	Nelson Vega
Dan Anastasiei	Homer Parker	Joshua Phillips
Lee Oldfield	Neel Khosa	Horst Aschenbroich
Jake Sujansky	Hillary Hughes	Carlos Merlos
Alain Deom	James Hayes	

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9	Update from DC-20A BIM Subcommittee	IFC in Exchange Model work with ACI 131 in progress	Malits	Ongoing
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D.1	Review of documents and identification of those in need of revision	Determine the next top priorities for updates to DC-20 publications	All	Ongoing
D.2	FAQ for practical vs. ACI 318 provisions for column punching shear integrity reinforcement in PT slabs	Determine need for FAQ to address this issue or push to TAB TG on code changes	All and Bryan Allred	Ongoing
D.3	FAQ for ACI 318 8.6.2 provision for minimum P/A and bonded reinforcement	Determine need for FAQ to address this issue or push to TAB TG on code changes	All	Ongoing
D.5	2018 IBC SEAOC Structural/Seismic Design Manual Example 4	Potential DC-20 Tech Note	Bryan Allred and Dirk Bondy	December, 2020
D.6	Vertical PT in columns and walls	Carol looking for input from this group for buildings. May push to TAB TG on code changes.	Carol	Ongoing

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<b>A. General</b> A.1 Call to Order A.2 Introductions A.3 Committee Roster / Changes A.4 PTI Antitrust Policy	A.1 <b>Call to order at 12:05 pm ET</b> A.2 <b>Participant introductions</b> A.3 <b>No changes</b> A.4 Policy reminder included with agenda
<b>B. Agenda &amp; Minutes</b>	

Agenda Item	Expected Outcome / Actions Taken
B.1 Approval of Agenda B.2 Approval of Minutes from 5/26/20 (Meeting ballot required)	B.1 <b>Add vertical PT in walls and columns</b> B.2 <b>Martin Maingot was in attendance at 5/26/20 meeting</b> Vote on approval of Minutes from 5/26/20 Web Meeting Motion / Second: <b>Kline / Kang</b> Result: <b>11-0-0 (Y-N-A)</b>
<b><u>C. Actions Taken Between Meetings</u></b> C.1 Letter Ballots  C.2 Web Meetings	C.1 <b>None</b>  C.2 <b>Web meetings were held by the Dual Banded TG on 6/29/20, 9/14/20 and 10/7/20</b>
<b><u>1. Action Item 1: (Design Webinar Modules)</u></b> 1.1. Module production	1.1 Recordings for all 10 modules concluded in January, they were reviewed by other PTI Staff and then forwarded to the EDC-130 Education Committee for review. <b>Review still in progress. Feedback received on some modules that will need to be discussed by DC-20 to revise slides/scripts and re-record some modules. Tim to setup WM and send feedback to committee for portions that are done.</b>
<b><u>2. Action Item 2: (PTI DC20.2-88, Restraint Cracks and their Mitigation)</u></b> 2.1. Review progress 2.2 Need to publish updated document as DC20.2-XX before end of 2020	2.1 <b>Ballot-TAB-2006 (DC20.2-XX Restraint Cracks and their Mitigation) closed 9/25/20, passed and now must go through resolution via TAB web meetings as soon as possible.</b>  2.2 Document publishing goal before the end of 2020
<b><u>3. Action Item 3: (DC20.7-01, Design, Construction and Maintenance of CIP PT Concrete Parking Structures)</u></b> 3.1 On Temporary Hold 3.2 Form a Joint Committee Task Group	3.1 <b>This is on-hold until other DC-20 publication priorities have been cleared.</b> This document will likely require a Joint Committee effort (DC-20 and DC-25) to update it, and DC-25 will lead the effort.  3.2 Most likely a Task Group consisting of members from each committee will be formed. Update of this document remains a PTI Board priority. It will be based on ACI 318-19 and latest ACI 362. <b>May decide to separate Design/Construction from Maintenance.</b> <ul style="list-style-type: none"> <li>• Discussed idea to separate</li> <li>• If two-part document is proposed, then DC-20 would have to vote on that and then forward proposal to TAB for approval</li> <li>• DC-25 will discuss this as well later today. Develop an outline of what the new document(s) would consist of and submit to DC-20.</li> <li>• Include barrier cable in parking structure documents.</li> </ul> <p>Need to confirm joint effort and form a task group. Goal is to publish in 2021.</p>

Agenda Item	Expected Outcome / Actions Taken
<p><b><u>4. Action Item 4: (ACI 318 Reference – New PTI publication)</u></b> 4.1 Update on status</p>	<p>4.1 Update status. Creation of ACI 320 influences this. <b>Still defining what will be in 320 versus 318. Asit article on changes from 318-14 to 318-19 will be published in the next PTI Journal.</b></p> <p><b>Carol and Don to discuss new ACI/PTI 320 as well as ACI 318-T and the new TAB TG focused on serving as the conduit for code changes and code development advanced from PTI.</b></p>
<p><b><u>5. Action Item 5: (PT Manual 7<sup>th</sup> Edition)</u></b> 5.1 Review progress 5.2 Plan for review process</p>	<p>5.1 Tim to provide update on TAB review ballot progress to date; PTI major priority with monthly balloting cycle</p> <p>5.2 PT Manual 7<sup>th</sup> Edition <u>must</u> publish no later than Q2 2021. The list below represents a summary of the “DC-20 reviewers” responsibility matrix in item 5.1 with remaining Chapters to be released for review</p> <p><b>TAB ballot complete and publishing in progress:</b>  <u>Chapter 9:</u> PT Concrete Floors; Hamid, Carine  <u>Chapter 23:</u> BIM; Carine, Srini, Rob  <u>Chapter 5:</u> Analysis and Design Fundamentals; Martin C, Jonathan Hamid and Siva  <u>Chapter 17:</u> Prestressed Concrete Under Dynamic Loads and Fatigue; Hayek, Schokker, Hirsch</p> <p><b>TAB ballot complete:</b></p> <p><b>TAB review complete:</b>  <u>Chapter 10:</u> PT Parking Structures; Otto, Martin C, Bryan, and Eric  <u>Chapter 18:</u> Fire resistance – Martin C; CRSI to potentially assist with review  <u>Chapter 19:</u> Durability (buildings &amp; bridges); Martin M, Kyle B, Ralph L  <u>Chapter 8:</u> Seismic Design of PT Concrete Structures; Martin M, Bryan Allred, Kyle B  <u>Chapter 25:</u> Sustainability; Martin M, Srini</p> <p><b>TAB review in progress:</b>  <u>Chapter 7:</u> Design examples; Siva and Eric. Anantha and Chad also volunteered.  <u>Chapter 6:</u> Detailing and Construction Procedures for Buildings; Zuming, Mark, Rashid; (Brian Allred volunteered to review)</p> <p><b>Still due from authors:</b>  <u>Chapter 24:</u> Anchorage Zone Design; Zuming, Siva;  <u>Chapter 16:</u> Design of Prestressed Barrier Cable Systems; reviewers TBD</p> <ul style="list-style-type: none"> <li>• <b>Asit discussed upcoming testing and we took straw poll on safety factor typically used by members of this committee</b></li> </ul>



Agenda Item	Expected Outcome / Actions Taken
<p><b><u>6. Action Item 6: (Dual-Banded PT Layout)</u></b>  6.1 Review progress of testing  6.2 Review progress of Tech Note</p>	<p>6.1 T4 specimen cast 10/1/20. T4 is dual banded with fibers. Preliminary draft paper comparing T1 and T3 has been received from VT, but further progress on it won't likely come until after T4 testing.</p> <p>6.2 Ballot TAB-1907-DC20-TN-Dual Banded PT closed on 9/18/19. 3 Affirmative, 3 Affirmative with Comments, 1 Negative, 1 Abstain and 4 Not Returned. Will hold TAB meeting resolution until after T3 testing summary is complete. Want both to coincide and speak the same language.</p> <p>Web meetings were held by the Dual Banded TG on 6/29/20, 9/14/20 and 10/7/20.</p> <ul style="list-style-type: none"> <li>Jonathan shared his modeling and analysis of various DB slab scenarios.</li> </ul>
<p><b><u>7. Action Item 7: (Temperature Tendons)</u></b>  7.1 Review progress of Tech Note</p>	<p>7.1 Final draft of Tech Note is nearly complete and will be submitted for TAB ballot as soon as possible. Tim to finish.</p>
<p><b><u>8. Action Item 8: (Structural Detailing for PT Buildings)</u></b>  8.1 Review progress of proposed new publication</p>	<p>8.1 Tim is in the process of procuring details from PT suppliers in different geographical areas/regions to educate SEs on how best to represent PT on their design drawings and thus create a best practice type document. Tim has had direct discussions with multiple PT suppliers to obtain their input on problematic details. Ultimate publication goal is now more realistically 2021.</p>
<p><b><u>9. Action Item 9: (Update from DC-20A BIM Subcommittee)</u></b>  9.1 Update on current work of the BIM subcommittee</p>	<p>9.1 Subcommittee Chair Malits to provide a brief update on current work of DC-20A.</p>
<p><b><u>10. Action Item 10: (FAQ or Tech Note, two-way PT slabs, exclusion of restraint effects in the min 125 psi calculation)</u></b>  10.1 Document update</p>	<p>10.1 Jonathan has not started this document yet. Maybe revisit this at 318-T. Place it on hold.</p> <ul style="list-style-type: none"> <li>This will be added to the 318-T/320 TG discussion to advance it</li> </ul>
<p><b><u>11. Action Item 11: (Restrained vs. Unrestrained FAQ)</u></b>  11.1 Document update</p>	<p>11.1 Update on this FAQ?</p> <ul style="list-style-type: none"> <li>Look further at Chapter 18 in PTM and how this is addressed</li> <li>Potential assistance from Carol's contact at Lehigh to evaluate further if given some models for consideration</li> <li>Pankow foundation is doing some further performance based research on CIP fire resistance</li> <li>Form a TG? Martin C. lead.</li> <li>Thomas Kang mentioned planned testing in Korea</li> </ul>

Agenda Item	Expected Outcome / Actions Taken
<p><b>D. New Business</b></p> <p>D.1 Review of documents and identification of those in need of revision</p> <p>D.2 FAQ for practical vs. ACI 318 provisions for column punching shear integrity reinforcement in PT slabs</p> <p>D.3 FAQ for ACI 318 8.6.2 provision for minimum P/A and bonded reinforcement</p> <p>D.4 Intermediate PT Anchors</p> <p>D.5 2018 IBC SEAOC Structural/Seismic Design Manual Example 4</p> <p>D.6 Vertical PT in columns and walls</p>	<p>D.1 List of documents for review:</p> <p>PTI DC20.2-88      Restraint Cracks and their Mitigation in Unbonded Post-Tensioned Building Structures (1<sup>st</sup> priority, revision in progress)</p> <p>PTI DC20.7-01      Design, Construction and Maintenance of Cast-in-Place Post-Tensioned Concrete Parking Structures (2<sup>nd</sup> priority)</p> <p>PTI DC20.6-99      Design Fundamentals of Post-Tensioned Concrete Floors (3<sup>rd</sup> priority)</p> <p>PTI DC20.8-04      Design of Post-Tensioned Slabs Using Unbonded Tendons (4<sup>th</sup> priority)</p> <p>PTI DC20.9-11      Guide for Design of Post-Tensioned Buildings (5<sup>th</sup> priority)</p> <p>PTI DC20.1-87      Strength and Behavior of Closely Spaced Post-Tensioned Mono-strand Anchorages</p> <p>PTI DC20.3-89      Structural Integrity of Building Constructed with Unbonded Tendons</p> <p>PTI DC20.4-90      Earthquake Performance of Unbonded Post-Tensioned Buildings</p> <p>PTI DC20.5-90      Evaluation of the Condition of a Post-Tensioned Concrete Parking Structure After 15 Years of Service</p> <p>D.2 Discuss need for FAQ document to address this issue 318-T will take up this issue as well.</p> <ul style="list-style-type: none"> <li>• Bryan volunteers to help too</li> </ul> <p>D.3 Discuss need for FAQ document to address this issue 318-T will take up this issue as well</p> <p>D.4 There is a TAB Task Group that is reviewing and evaluating this matter</p> <p>D.5 Bryan Allred to discuss concerns he and Dirk Bondy have regarding this document and the desire for a PTI response to dispute it.</p> <ul style="list-style-type: none"> <li>• Related to PT parking structures (high seismic)</li> </ul>

Agenda Item	Expected Outcome / Actions Taken
	<ul style="list-style-type: none"> <li>• Design joints for full plasticity</li> <li>• ICC endorsed document is why it has been problematic to argue against</li> <li>• A Tech Note has been drafted by Bryan and Dirk that could be submitted to DC-20 for review and consideration</li> <li>• Draft will be sent out to committee for review first (2 week period)</li> <li>• Maybe submit it as well to 320 TG for them to take a look</li> </ul> <p>D.6 Vertical PT in columns and walls</p> <ul style="list-style-type: none"> <li>• Carol is looking for some input from this group for buildings</li> <li>• Looking for volunteers to help advance into code. TG</li> <li>• Send Carol email if interested in helping</li> </ul> <p>D.7 Dual Banded system will need revised integrity tendon language</p> <ul style="list-style-type: none"> <li>• Look at code provisions via 318-T/320 TG</li> </ul>
<p><b>E. <u>Next Meeting</u></b>  2021 PTI Convention,  Weston Indianapolis, IN  April 18-21, 2021</p> <p><i>Web Meetings:</i></p>	<p>E.1 <i>Web meeting (full committee) between now and April convention</i></p>
<p><b>F. <u>Adjourn</u></b></p>	<p>Meeting adjourned at 3:31 pm ET</p>

**AGENDA / MEETING EXHIBITS**

Exhibit #	Subject
Roster / A.4	<del>Sign-In Sheet</del> Zoom Attendee Report / PTI Anti-Trust Policy

Topic	Name (Original Name)	User Email	Join Time	Leave Time	Duration (Minutes)
DC-20 Building Design	Ron Harder		10/20/2020 12:00	10/20/2020 15:32	212
DC-20 Building Design	Shih-Ho Chao	shchao@uta.edu	10/20/2020 12:00	10/20/2020 15:31	212
DC-20 Building Design	Thomas Kang ( 강경묘 ㅋㅋㅋ-vs- 강경묘 ㅎㅎㅎ )		10/20/2020 12:00	10/20/2020 15:32	212
DC-20 Building Design	Zuming Xia		10/20/2020 12:00	10/20/2020 15:32	212
DC-20 Building Design	Tim Christle (Host)	tim.christle@post-tensioning.org	10/20/2020 12:00	10/20/2020 15:32	212
DC-20 Building Design	Carine Leys		10/20/2020 12:00	10/20/2020 15:32	212
DC-20 Building Design	Gaelyn Krauser		10/20/2020 12:00	10/20/2020 15:32	212
DC-20 Building Design	Gannon Stromquist-LeVoir		10/20/2020 12:00	10/20/2020 15:32	212
DC-20 Building Design	Kyle Boyd		10/20/2020 12:00	10/20/2020 15:32	212
DC-20 Building Design	Hamid Ahmady		10/20/2020 12:00	10/20/2020 15:32	212
DC-20 Building Design	Lance Osborne		10/20/2020 12:00	10/20/2020 15:32	212
DC-20 Building Design	Carol Hayek		10/20/2020 12:00	10/20/2020 15:32	212
DC-20 Building Design	Frank Malits		10/20/2020 12:00	10/20/2020 15:32	212
DC-20 Building Design	Anantha Chittur		10/20/2020 12:00	10/20/2020 15:32	212
DC-20 Building Design	Jonathan Hirsch		10/20/2020 12:01	10/20/2020 15:32	211
DC-20 Building Design	Martin Cuadra		10/20/2020 12:01	10/20/2020 15:32	211
DC-20 Building Design	Kwok Tam		10/20/2020 12:01	10/20/2020 15:32	211
DC-20 Building Design	Srini (CCL)		10/20/2020 12:02	10/20/2020 15:32	210
DC-20 Building Design	Josh Winchester		10/20/2020 12:02	10/20/2020 15:32	210
DC-20 Building Design	Don Kline		10/20/2020 12:03	10/20/2020 15:32	209
DC-20 Building Design	Eric Ober		10/20/2020 12:04	10/20/2020 15:32	208
DC-20 Building Design	Rashid Ahmed		10/20/2020 12:04	10/20/2020 15:32	208
DC-20 Building Design	Dan Anastasiei		10/20/2020 12:00	10/20/2020 15:28	208
DC-20 Building Design	Lee Oldfield		10/20/2020 12:00	10/20/2020 15:23	204
DC-20 Building Design	Asit Baxi		10/20/2020 12:18	10/20/2020 15:32	195
DC-20 Building Design	Jake Sujansky (KL&A)		10/20/2020 12:00	10/20/2020 15:15	195
DC-20 Building Design	Alain Deom		10/20/2020 12:00	10/20/2020 15:02	182
DC-20 Building Design	Joe Ferzli		10/20/2020 12:07	10/20/2020 15:03	177
DC-20 Building Design	Michael Hopper		10/20/2020 12:02	10/20/2020 14:51	169
DC-20 Building Design	Martin Maingot - SCA		10/20/2020 12:44	10/20/2020 15:32	168
DC-20 Building Design	Eric Ober	erober@sgh.com	10/20/2020 13:10	10/20/2020 15:31	142
DC-20 Building Design	Mehrdad Sasani		10/20/2020 12:02	10/20/2020 14:19	137
DC-20 Building Design	MICHAEL RUSSILLO	mrussillo@cobiaxusa.com	10/20/2020 13:24	10/20/2020 15:32	128
DC-20 Building Design	Michelle Stern	michelle.stern@post-tensioning.org	10/20/2020 11:53	10/20/2020 13:50	118
DC-20 Building Design	Harley Nethken		10/20/2020 12:00	10/20/2020 13:54	115
DC-20 Building Design	Chad Konger		10/20/2020 12:02	10/20/2020 13:56	114
DC-20 Building Design	Mary Shinnars ( Mary (PES) )	maryshinnars@gmail.com	10/20/2020 12:00	10/20/2020 13:47	107
DC-20 Building Design	Javier Nieto		10/20/2020 12:35	10/20/2020 14:15	101
DC-20 Building Design	Rob Suarez		10/20/2020 12:02	10/20/2020 13:38	96
DC-20 Building Design	Gillian Love	gclove@sgh.com	10/20/2020 12:23	10/20/2020 13:30	68
DC-20 Building Design	Bryan Allred		10/20/2020 14:30	10/20/2020 15:32	62
DC-20 Building Design	Homer Parker		10/20/2020 12:47	10/20/2020 13:46	59
DC-20 Building Design	Neel Khosa	Neelkhosa@gmail.com	10/20/2020 14:37	10/20/2020 15:32	55
DC-20 Building Design	Rob Suarez		10/20/2020 14:41	10/20/2020 15:32	52
DC-20 Building Design	Hillary Hughes	hhughes@klaa.com	10/20/2020 12:04	10/20/2020 12:48	44
DC-20 Building Design	James Hayes		10/20/2020 12:14	10/20/2020 12:56	42
DC-20 Building Design	Gregory Hunsicker		10/20/2020 12:04	10/20/2020 12:45	41
DC-20 Building Design	BJ Evans		10/20/2020 13:02	10/20/2020 13:42	40
DC-20 Building Design	David Peralta		10/20/2020 13:24	10/20/2020 14:01	38
DC-20 Building Design	Anthony Johnson	tony.johnson@post-tensioning.org	10/20/2020 14:56	10/20/2020 15:31	36
DC-20 Building Design	Hillary Hughes	hhughes@klaa.com	10/20/2020 14:59	10/20/2020 15:32	33
DC-20 Building Design	Tony Johnson ( Anthony Johnson )	tony.johnson@post-tensioning.org	10/20/2020 13:54	10/20/2020 14:25	31
DC-20 Building Design	Jake Sujansky		10/20/2020 15:07	10/20/2020 15:32	25
DC-20 Building Design	Neel Khosa	Neelkhosa@gmail.com	10/20/2020 13:48	10/20/2020 14:11	23
DC-20 Building Design	Michael Hopper		10/20/2020 14:55	10/20/2020 15:17	23
DC-20 Building Design	Mhnd Tibi		10/20/2020 15:12	10/20/2020 15:32	20
DC-20 Building Design	John Vogel ( vogelj61649 )		10/20/2020 12:38	10/20/2020 12:54	16
DC-20 Building Design	Don Kline		10/20/2020 14:40	10/20/2020 14:55	15
DC-20 Building Design	James Hayes		10/20/2020 12:00	10/20/2020 12:13	13
DC-20 Building Design	Harry Sumartono		10/20/2020 12:00	10/20/2020 12:11	12
DC-20 Building Design	Dan Anastasiei		10/20/2020 11:53	10/20/2020 12:00	8
DC-20 Building Design	Anantha Chittur		10/20/2020 11:53	10/20/2020 12:00	8
DC-20 Building Design	Carine Leys		10/20/2020 11:53	10/20/2020 12:00	8
DC-20 Building Design	Carol Hayek		10/20/2020 11:53	10/20/2020 12:00	8
DC-20 Building Design	Gannon Stromquist-LeVoir		10/20/2020 11:53	10/20/2020 12:00	8
DC-20 Building Design	Nelson Vega - Bolivia	nvega1205@gmail.com	10/20/2020 11:53	10/20/2020 12:00	8
DC-20 Building Design	Hamid Ahmady		10/20/2020 11:54	10/20/2020 12:00	6
DC-20 Building Design	Joshua Philips	jphilips@harrisrebar.com	10/20/2020 11:54	10/20/2020 12:00	6
DC-20 Building Design	Harry Sumartono		10/20/2020 11:55	10/20/2020 12:00	6
DC-20 Building Design	Lee Oldfield		10/20/2020 11:53	10/20/2020 11:57	5
DC-20 Building Design	Horst Aschenbroich		10/20/2020 14:05	10/20/2020 14:10	5
DC-20 Building Design	Mhnd Tibi		10/20/2020 14:59	10/20/2020 15:03	5
DC-20 Building Design	Nelson Vega - Bolivia	nvega1205@gmail.com	10/20/2020 12:00	10/20/2020 12:04	4
DC-20 Building Design	Don Kline		10/20/2020 14:37	10/20/2020 14:40	4
DC-20 Building Design	강경묘 ㅋㅋㅋ-vs- 강경묘 ㅎㅎㅎ		10/20/2020 11:56	10/20/2020 12:00	4
DC-20 Building Design	Ron Harder		10/20/2020 11:56	10/20/2020 12:00	4
DC-20 Building Design	Harley Nethken		10/20/2020 11:57	10/20/2020 12:00	4
DC-20 Building Design	Lee Oldfield		10/20/2020 11:57	10/20/2020 12:00	4

DC-20 Building Design	Harley Nethken		10/20/2020 11:53	10/20/2020 11:56	3
DC-20 Building Design	Horst Aschenbroich		10/20/2020 14:54	10/20/2020 14:57	3
DC-20 Building Design	Mhnd Tibi		10/20/2020 15:04	10/20/2020 15:07	3
DC-20 Building Design	Frank Malits		10/20/2020 11:58	10/20/2020 12:00	3
DC-20 Building Design	Joshua Philips	jphilips@harrisrebar.com	10/20/2020 12:00	10/20/2020 12:02	3
DC-20 Building Design	James Hayes		10/20/2020 12:13	10/20/2020 12:14	2
DC-20 Building Design	Bryan Allred		10/20/2020 14:29	10/20/2020 14:30	2
DC-20 Building Design	Don Kline		10/20/2020 14:35	10/20/2020 14:37	2
DC-20 Building Design	Rob Suarez		10/20/2020 14:40	10/20/2020 14:41	2
DC-20 Building Design	Thomas Kang		10/20/2020 11:58	10/20/2020 11:59	2
DC-20 Building Design	Mary (PES)	marykshinners@gmail.com	10/20/2020 11:58	10/20/2020 12:00	2
DC-20 Building Design	Lance Osborne		10/20/2020 11:58	10/20/2020 12:00	2
DC-20 Building Design	Alain Deom		10/20/2020 11:59	10/20/2020 12:00	2
DC-20 Building Design	Zuming Xia		10/20/2020 11:59	10/20/2020 12:00	2
DC-20 Building Design	Shih-Ho Chao	shchao@uta.edu	10/20/2020 12:00	10/20/2020 12:00	1
DC-20 Building Design	Martin Cuadra		10/20/2020 12:00	10/20/2020 12:01	1
DC-20 Building Design	Kwok Tam		10/20/2020 12:01	10/20/2020 12:01	1
DC-20 Building Design	Jonathan Hirsch		10/20/2020 12:01	10/20/2020 12:01	1
DC-20 Building Design	Michael Hopper		10/20/2020 12:01	10/20/2020 12:02	1
DC-20 Building Design	Rob Suarez		10/20/2020 12:01	10/20/2020 12:02	1
DC-20 Building Design	Chad Konger		10/20/2020 12:02	10/20/2020 12:02	1
DC-20 Building Design	Josh Winchester		10/20/2020 12:02	10/20/2020 12:02	1
DC-20 Building Design	Mehrdad Sasani		10/20/2020 12:02	10/20/2020 12:02	1
DC-20 Building Design	Don Kline		10/20/2020 12:03	10/20/2020 12:03	1
DC-20 Building Design	Eric Ober		10/20/2020 12:03	10/20/2020 12:04	1
DC-20 Building Design	Rashid Ahmed		10/20/2020 12:03	10/20/2020 12:04	1
DC-20 Building Design	Hillary Hughes	hhughes@klaa.com	10/20/2020 12:04	10/20/2020 12:04	1
DC-20 Building Design	Gregory Hunsicker		10/20/2020 12:04	10/20/2020 12:04	1
DC-20 Building Design	Nelson Vega - Bolivia	nvega1205@gmail.com	10/20/2020 12:04	10/20/2020 12:05	1
DC-20 Building Design	Nelson Vega - Bolivia	nvega1205@gmail.com	10/20/2020 12:05	10/20/2020 12:05	1
DC-20 Building Design	Joe Ferzli		10/20/2020 12:06	10/20/2020 12:06	1
DC-20 Building Design	James Hayes		10/20/2020 12:13	10/20/2020 12:13	1
DC-20 Building Design	James Hayes		10/20/2020 12:14	10/20/2020 12:14	1
DC-20 Building Design	Asit Baxi		10/20/2020 12:17	10/20/2020 12:18	1
DC-20 Building Design	Gillian Love	gclove@sgh.com	10/20/2020 12:23	10/20/2020 12:23	1
DC-20 Building Design	Javier Nieto		10/20/2020 12:34	10/20/2020 12:35	1
DC-20 Building Design	vogelj61649		10/20/2020 12:38	10/20/2020 12:38	1
DC-20 Building Design	Martin Maingot - SCA		10/20/2020 12:44	10/20/2020 12:44	1
DC-20 Building Design	Homer Parker		10/20/2020 12:46	10/20/2020 12:47	1
DC-20 Building Design	BJ Evans		10/20/2020 13:02	10/20/2020 13:02	1
DC-20 Building Design	Eric Ober	erober@sgh.com	10/20/2020 13:09	10/20/2020 13:10	1
DC-20 Building Design	David Peralta		10/20/2020 13:23	10/20/2020 13:24	1
DC-20 Building Design	MICHAEL RUSSILLO	mrussillo@cobiaxusa.com	10/20/2020 13:24	10/20/2020 13:24	1
DC-20 Building Design	Neel Khosa	Neelkhosa@gmail.com	10/20/2020 13:47	10/20/2020 13:48	1
DC-20 Building Design	Carlos Merlos		10/20/2020 13:52	10/20/2020 13:52	1
DC-20 Building Design	Carlos Merlos		10/20/2020 13:52	10/20/2020 13:53	1
DC-20 Building Design	Horst Aschenbroich		10/20/2020 14:05	10/20/2020 14:05	1
DC-20 Building Design	Neel Khosa	Neelkhosa@gmail.com	10/20/2020 14:37	10/20/2020 14:37	1
DC-20 Building Design	Horst Aschenbroich		10/20/2020 14:53	10/20/2020 14:54	1
DC-20 Building Design	Michael Hopper		10/20/2020 14:55	10/20/2020 14:55	1
DC-20 Building Design	Mhnd Tibi		10/20/2020 14:58	10/20/2020 14:59	1
DC-20 Building Design	Hillary Hughes	hhughes@klaa.com	10/20/2020 14:59	10/20/2020 14:59	1
DC-20 Building Design	Mhnd Tibi		10/20/2020 15:04	10/20/2020 15:04	1
DC-20 Building Design	Jake Sujansky		10/20/2020 15:07	10/20/2020 15:07	1
DC-20 Building Design	Mhnd Tibi		10/20/2020 15:12	10/20/2020 15:12	1
DC-20 Building Design	Jake Sujansky (KL&A)		10/20/2020 11:59	10/20/2020 12:00	1
DC-20 Building Design	Kyle Boyd		10/20/2020 11:59	10/20/2020 12:00	1
DC-20 Building Design	Thomas Kang		10/20/2020 12:00	10/20/2020 12:00	1
DC-20 Building Design	Gaelyn Krauser		10/20/2020 12:00	10/20/2020 12:00	1
DC-20 Building Design	Thomas Kang		10/20/2020 12:00	10/20/2020 12:01	1
DC-20 Building Design	Srini (CCL)		10/20/2020 12:01	10/20/2020 12:02	1
DC-20 Building Design	James Hayes		10/20/2020 12:00	10/20/2020 12:00	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.