

**AGENDA**

**DC-25: Parking Structures Committee**

Tuesday, April 26, 2022

8:00 a.m. - 10:00 a.m. PT

Hilton La Jolla Torrey Pines, La Jolla, CA

**Voting Members Present (X of 8; Quorum: 4)**

Rashid Ahmed - Chair  
Walker Consultants

Katherine Farley  
Kline Engineering and Consulting

Michael Pedraza  
United Forming

Tim Christle  
Post-Tensioning Institute  
Representative

Martin Maingot  
VSMsq Structural Engineers

Prakash Surali  
Master Builders Solutions

Asit Baxi – TAB Contact,  
Baxi Engineering Inc.

Dr. Zuming Xia  
Structural Technologies

Rafael Machado

**Associate Members Present**

Matthew Poling  
BASE

David Wilken  
Walker Consultants

Sandeep Patel  
SEDG LLC

Neel Khosa  
AMSYSCO

Jared Reigstad  
PS = 0

Matthew Conley  
Walker Consultants

**Visitors**

**ACTION ITEMS FROM LAST / THIS MEETING**

Item #	Subject	Action	Responsible	Deadline / Completed
1.1	Mission Statement	New mission statement determined	All	Completed
2.1	Marketing for PT Parking Structures	Assemble a TG to achieve on-going action and focus on marketing initiatives. Develop action plan for updating 1992 and 2001 marketing publications.	Christle, Pedraza, N. Khosa, Reigstad, Scoppa	April 26, 2022
3.1	SWOT Analysis	Maintain and update this analysis as a template to keep our focus	All	Ongoing
4	Competitive Strategies Task Group	Examine cost implications of different spans, member sizes and tensile stress limits. Meet monthly.	Poling, Pedraza, Farley, Ahmed, Baxi, Christle	Ongoing
5.1	Parking Structures Durability Technical Note	Resolve Ballot DC-25-2101 Durability Technical Note. Document case studies to include in TN. Meet monthly.	Ahmed, Maingot, Surali, Wilken, Christle	April 26, 2022
6.1	Update PTI Publication DC20.7-01	Form a Task Group as a joint effort between DC-25 and DC-20 to update this publication	All	On Hold
7.1	Code change proposals to improve PT parking structure economy	Develop and submit proposals to the TAB TG on Code Change Proposals for ACI 318-T + PTI/ACI 320	All	Ongoing
8.1	New Tech Note and FAQ ideas	Develop new TN & FAQ documents related to PT parking structures. Finish other TN priority work first.	All	On Hold

Agenda Item	Expected Outcome / Actions Taken
<p><b>A. General</b></p> <p>A.1 Call to Order  A.2 Introductions  A.3 Committee Roster / Changes  A.4 PTI Antitrust Policy</p>	<p>A.1 <b>Call to order at X:XX am PT</b></p> <p>A.2 Introduction of attendees</p> <p>A.3 <b>We welcome new Associate Members Jared Reigstad, Sandeep Patel and Matthew Conley to DC-25.</b></p> <p>A.4 Policy reminder included with agenda. <b>Tim presentation.</b></p>
<p><b>B. Agenda</b></p> <p>B.1 Approval of Agenda  B.2 Approval of Minutes from 10/6/21 (Meeting ballot required)</p>	<p>B.1  B.2  Vote on approval of Minutes from 10/6/21 Committee Days Meeting  Motion/Second: <b>Name/Name</b>  Result: <b>X-X-X (Y-N-A)</b></p>
<p><b>C. Actions Taken Between Meetings</b></p> <p>C.1 Letter Ballots  C.2 Web Meetings</p>	<p>C.1 Ballot DC-25-2101 Durability Technical Note (closed 11/1/21)</p> <p>C.2 Competitive Strategies TG and Durability Tech Note TG both met monthly since the last DC-25 meeting.</p>
<p><b>2. Action Item 2: (Marketing for PT Parking Structures)</b></p> <p>2.1 Develop material for the Marketing Committee's use in promoting PT Parking Structures</p> <p>TG: Christle, Pedraza, N. Khosa, Reigstad, Scoppa</p>	<p>2.1 How can we help the Marketing Committee put together marketing materials for successful garages?</p> <ul style="list-style-type: none"> <li>• Update <b>2001 PTI Parking Structures Brochure.</b></li> <li>• Update <b>1992 PTI/CRSI/NRMCA Cast-in-Place Concrete Parking Structures.</b></li> <li>• <b>Need to establish TG Lead</b></li> <li>• <b>Pete Scoppa needs to apply for AM on DC-25</b></li> <li>• <b>Need to begin meeting monthly</b></li> </ul>
<p><b>3. Action Item 3: (SWOT Analysis)</b></p> <p>3.1 Evaluate and discuss Strengths, Weaknesses, Opportunities and Threats associated with PT Parking Structures</p>	<p>3.1 Group discussion. <b>Maintain and update this analysis:</b></p> <ul style="list-style-type: none"> <li>• <b>Strengths:</b> durability, functionality, safety, adaptability of occupancy, aesthetics, openness, security, better lighting, more daylight, sustainable/green, lower maintenance, not bouncy, smooth riding surface, fewer joints, no exposed steel connectors/welding, no shear walls/frame action, improved serviceability, virtually crack free, flexibility in design, redundancy, adaptive reuse, improved drainage slopes, lower self-weight/smaller foundations/lower mass for seismic, tight site logistics/CBD, improved fire resistance, improved parking efficiency with 36' slab span, can shallow floor to floor height. Structural integrity. Progressive collapse avoidance. Underground garages with plazas above. Amenity deck/pool</li> </ul>

Agenda Item	Expected Outcome / Actions Taken
	<p>level on top of certain garages.</p> <ul style="list-style-type: none"> <li>• <b>Weaknesses:</b> initial cost, construction schedule, weather constraints to construction schedule, not built in a controlled environment, more labor intensive, quality control, tower crane/site logistics/staging, laydown area, volume change effects, LDPs who prefer performance design PC solution</li> <li>• <b>Opportunities:</b> adaptive reuse, create different categories of garage type (Platinum, Gold, Silver, Bronze), ACI 320 (318-T), prepare standardized design tables/update the ones we previously created in DC-20 document. Dual banded research has had positive results thus far. Double cantilever framing option for market share gain.</li> <li>• <b>Threats:</b> Further PC cost reduction to keep production lines going, ACI 319, long-term asset holder owners who only focus on first cost/schedule, precasters expanding into more building types based upon their successes, labor costs continuing to increase. Change in ACI 318-19 that affects CIP bumper walls and detailing of vertical rebar. Could be good or bad for costs.</li> </ul>
<p><b>4. Action Item 4: (Competitive Strategies)</b>  4.1 Strategies to improve CIP-PT in competition with other structural systems for parking</p> <p>TG: Poling, Pedraza, Farley, Ahmed, Baxi, Christle</p>	<p>4.1 Status Report</p> <ul style="list-style-type: none"> <li>•</li> </ul>
<p><b>5. Action Item 5: (Parking Structure Durability Tech Note)</b>  5.1 Develop a Tech Note focused on durability advantages</p> <p>TG: Ahmed, Maingot, Surali, Wilken, Christle</p>	<p>5.1 Status Report</p> <ul style="list-style-type: none"> <li>• Ballot DC-25-2101 Durability Technical Note (closed 11/1/21) did not pass</li> <li>•</li> </ul>
<p><b>6. Action Item 6: (Update PTI Publication DC20.7-01)</b>  6.1 Form a Task Group to work with DC-20 to update DC20.7-01: Design,</p>	<p>6.1 Form a Joint DC-20/DC-25 Task Group to update this publication</p> <ul style="list-style-type: none"> <li>• On Hold</li> </ul>

Agenda Item	Expected Outcome / Actions Taken
Construction and Maintenance of CIP PT Concrete Parking Structures	
<b>7. <u>Action Item 7: (Code Changes for Competitive Advantage)</u></b> 7.1 Identify code change proposals which would improve CIP/PT parking structure economy.	7.1 Parking structure code change proposals we can push to the TAB TG on Code Change Proposals for ACI 318-T + PTI/ACI 320 <ul style="list-style-type: none"> <li>•</li> </ul>
<b>8. <u>Action Item 8: (Tech Notes and FAQs)</u></b> 8.1 New Tech Note and FAQ ideas	8.1 New Tech Note and FAQ proposals <ul style="list-style-type: none"> <li>• On Hold</li> </ul>
<b>D. <u>New Business</u></b>  D.1  D.2	D.1  D.2
<b>E. <u>Next Meeting</u></b> 2022 PTI Committee Days, JW Marriott Cancun, Cancun, Mexico October 4-7, 2022  Web Meetings:	E.1
<b>F. <u>Adjourn</u></b>	Meeting adjourned at XX:XX am PT

**AGENDA / MEETING EXHIBITS**

Exhibit #	Subject
Roster / A.4	Sign In Sheet / PTI Anti-Trust Policy
B.2	211006 DC-25 Minutes 10-06-21 Unapproved

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-25: Parking Structures Committee**

Wednesday, October 6, 2021

8:00 a.m. - 10:00 a.m. Eastern

Hyatt Regency Coconut Point – Bonita Springs, FL

**Voting Members Present (6 of 8; Quorum: 4)**

Rashid Ahmed - Chair  
Walker Consultants

Katherine Farley  
Kline Engineering and Consulting

Michael Pedraza  
United Forming

Tim Christle  
Post-Tensioning Institute  
Representative

Martin Maingot  
SCA Engineers

Prakash Surali  
Master Builders Solutions

Asit Baxi – TAB Contact,  
Baxi Engineering Inc.

Dr. Zuming Xia  
VSL

Rafael Machado  
Ellinwood Machado, LLC

**Associate Members Present**

Matthew Poling  
BASE

Neel Khosa  
AMSYSCO

David Wilken  
Walker Consultants

**Visitors**

Pawan Gupta

Rattan Khosa

Pete Scoppa

Evan Langston

Jared Reigstad

David Peralta

Anantha Chittur

Byron Benson

Lance Osborne

Mohanish



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8.1	New Tech Note and FAQ ideas	Develop new TN & FAQ documents related to PT parking structures. Finish other TN priority work first.	All	On Hold

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 Call to order at 8:00 am ET  A.2 All were introduced  A.3 We welcome new Associate Members Neel Khosa and David Wilken. We thank departing member Liao Haixue for his service and contributions to DC-25. We also take a special moment to posthumously honor and thank PTI Fellow Jim Donnelly for his service and contributions to DC-25, PTI as well as the concrete design, construction, and repair industries.  A.4 Policy reminder included with agenda.
<b>B. Agenda</b> B.1 Approval of Agenda B.2 Approval of Minutes from 4/21/21 (Meeting ballot required)	B.1 B.2 Vote on approval of Minutes from 4/21/21 Virtual Convention Meeting Motion/Second: Martin M./Michael Result: 5-0-1 (Y-N-A)
<b>C. Actions Taken Between Meetings</b> C.1 Letter Ballots C.2 Web Meetings	C.1 Ballot DC-25-2101 Durability Technical Note (closes 11/1/21)  C.2 None
<b>1. Action Item 1: (Mission Statement)</b> 1.1. Review and update Mission Statement	1.1 Consider revision to current mission statement. The existing mission statement is: Develop and communicate information on the design, construction and advantages of post-tensioned parking structures.  <ul style="list-style-type: none"> <li>• Michael P. proposal 10/20/20....."Develop and communicate information on the design and construction of PT Parking Structures in an effort to educate engineers and developers on the advantages of PT in an effort to improve market share of CIP PT decks"</li> <li>• Edgar Z proposal 10/20/20...."Develop and communicate information on the costs, design, construction and advantages of post-tensioning to make it the option of choice for parking structures garages."</li> </ul> <ul style="list-style-type: none"> <li>• Readdress at this Committee Days meeting</li> <li>• Rattan. Most important is life cycle cost. Rattan would like some action taken on this.</li> <li>• Martin. First cost is key, especially with developers.</li> <li>• Rashid. Reduce the cost delta between P/C and PT.</li> </ul>

Agenda Item	Expected Outcome / Actions Taken
	<ul style="list-style-type: none"> <li>• Asit. What are the efficiencies. Reduce the delta, then talk about life cycle cost.</li> <li>• Reduce first cost, reduce construction schedule, promote durability.</li> <li>• Formwork is a significant (50% or more) cost associated with PT garages.</li> <li>• Motion to approve modifications to Edgar's original suggestion above: Michael, Second: Martin. Vote 6-0-0</li> <li>• Work with ACI 365 service life prediction committee to get positive effects of PT to be accounted for more accurately in the software. Talk to Chair of 365 (Rashid to talk to Kyle Stanish) and discuss adding precompression component to software.</li> <li>• Life 365 looks at chloride induced corrosion only. Permeability, etc.</li> <li>• Potentially hire a life cycle cost analysis consultant to see what they can do for us to advance the LCC initiative.</li> </ul>
<p><b><u>2. Action Item 2: (Marketing for PT Parking Structures)</u></b>  2.1 Develop material for the Marketing Committee's use in promoting PT Parking Structures</p>	<p>2.1 How can we help the Marketing Committee put together marketing materials for successful garages?</p> <ul style="list-style-type: none"> <li>• Update <b>2001 PTI Parking Structures Brochure.</b></li> <li>• Update <b>1992 PTI/CRSI/NRMCA Cast-in-Place Concrete Parking Structures.</b></li> <li>• Create and deliver a PT Parking Structures Webinar to be given frequently at SEA meetings, A/E lunch/learn, etc.</li> <li>• Create another new YouTube video.</li> <li>• Create Social Media content.</li> <li>• 2-hr PT Parking Structures Technical Session on Thursday at 10:00 am ET</li> <li>• One- or two-page marketing piece, spotlighting key benefits.</li> <li>• Survey on actual repair/maintenance costs of PT versus other decks.</li> <li>• Double cantilever short span CIP garage in Texas, multifamily. Images, models, create a piece on this maybe with focus on multifamily and office.</li> <li>• Structural integrity, redundancy, monolithic behavior, progressive collapse. Mehrdad research information.</li> <li>• DOD projects, blast resistance. Hardening.</li> </ul> <ul style="list-style-type: none"> <li>• We need to assemble a Marketing TG that meets monthly so this action item can move forward and net results. TG would develop the action plan for updating 1992 and 2001 marketing publications. TG would prioritize the marketing suggestions noted above and execute them one at a time.</li> <li>• TG to include DC-25 and MKT committee members. Jared interested in being involved in the committee and TG. Neel as well. Michael. Pete S.</li> </ul>

Agenda Item	Expected Outcome / Actions Taken
<p><b>3. <u>Action Item 3: (SWOT Analysis)</u></b>  3.1 Evaluate and discuss Strengths, Weaknesses, Opportunities and Threats associated with PT Parking Structures</p>	<p>3.1 Group discussion. <b>Maintain and update this analysis:</b></p> <ul style="list-style-type: none"> <li>• <b>Strengths:</b> durability, functionality, safety, adaptability of occupancy, aesthetics, openness, security, better lighting, more daylight, sustainable/green, lower maintenance, not bouncy, smooth riding surface, fewer joints, no exposed steel connectors/welding, no shear walls/frame action, improved serviceability, virtually crack free, flexibility in design, redundancy, adaptive reuse, improved drainage slopes, lower self-weight/smaller foundations/lower mass for seismic, tight site logistics/CBD, improved fire resistance, improved parking efficiency with 36' slab span, can shallow floor to floor height. Structural integrity. <b>Progressive collapse avoidance. Underground garages with plazas above. Amenity deck/pool level on top of certain garages.</b></li> <li>• <b>Weaknesses:</b> initial cost, construction schedule, weather constraints to construction schedule, not built in a controlled environment, more labor intensive, quality control, tower crane/site logistics/staging, laydown area, volume change effects, LDPs who prefer performance design PC solution</li> <li>• <b>Opportunities:</b> adaptive reuse, create different categories of garage type (Platinum, Gold, Silver, Bronze), ACI 320 (318-T), prepare standardized design tables/update the ones we previously created in DC-20 document. Dual banded research has had positive results thus far. Double cantilever framing option for market share gain.</li> <li>• <b>Threats:</b> Further PC cost reduction to keep production lines going, ACI 319, long-term asset holder owners who only focus on first cost/schedule, precasters expanding into more building types based upon their successes, labor costs continuing to increase. Change in ACI 318-19 that affects CIP bumper walls and detailing of vertical rebar. Could be good or bad for costs.</li> </ul>
<p><b>4. <u>Action Item 4: (Competitive Strategies)</u></b>  4.1 Strategies to improve CIP-PT in competition with other structural systems for parking</p>	<p>4.1 Form a Task Group to study effect of formwork standardization and design classes on cost of concrete structure. Examine different slab spans 18' to 30'. Perhaps also 36'. 3' intervals. Keep beams 60'. Different max tensile stress. 3 bay, 180'.</p> <ul style="list-style-type: none"> <li>• TG includes Asit, <b>Rafael (lead)</b>, Mike, Rashid, Katherine, Matt Poling</li> <li>• Update from Task Group</li> </ul>

Agenda Item	Expected Outcome / Actions Taken
	<ul style="list-style-type: none"> <li>○ Need to have a web meeting and see where we are and plan out next steps.</li> <li>○ DC20.9 tables starting point.</li> <li>○ Other designs to improve economy.</li> <li>● Need to establish new TG Leader.</li> <li>● Need to begin meeting monthly so this action item can move forward and net results.</li> <li>● Matt Poling would like to lead this effort.</li> <li>● Kickoff again here in October.</li> <li>● 4.2 Add action item point about LCC.</li> </ul>
<p><b><u>5. Action Item 5: (Parking Structure Durabilty Tech Note)</u></b>  5.1 Develop a Tech Note focused on durability advantages</p>	<p>5.1 Form a Task Group to work on this TN. Focused on durability of PT parking structures, aspects that decrease life cycle costs. Good starting point is durability chapter from the PT Manual. Waterproofing, concrete mix, design strategies e.g. drainage, stresses, etc. Recommended strategies.</p> <ul style="list-style-type: none"> <li>● TG includes <b>Rashid (lead)</b>, Martin M., Prakash, Jim D.</li> <li>● Update from Task Group <ul style="list-style-type: none"> <li>○ See current draft Tech Note (Exhibit 5.1)</li> <li>○ Maybe use the Duke garage as the 10-year deck (IPI award winner) <b>David W.</b></li> <li>○ 20-year deck in Peoria, IL</li> <li>○ 5757 Wilshire 37-year-old deck in California <b>Martin</b></li> <li>○ Pull key stats to compare decks.</li> <li>○ Review document under Drafts on committee page.</li> </ul> </li> <li>● <b>Ballot DC-25-2101 Durability Technical Note (closes 11/1/21) starts with the text of this TN.</b></li> <li>● <b>Need to replace Jim on this TG.</b></li> <li>● <b>This TG should also meet monthly so this action item can maintain momentum and get this TN published as soon as possible.</b></li> <li>● <b>Use similar information like CRSI used to document case studies.</b></li> <li>● <b>St. Louis garage 45 years old near stadium.</b></li> <li>● <b>Northwestern Hospital garages 25+ years old. Rashid.</b></li> <li>● <b>David W. to join TG on this.</b></li> <li>● <b>Underground PT garages. Barnes Hospital PG St. Louis. 650 psf design load on roof.</b></li> <li>● <b>TG to meet after ballot closes but before Thanksgiving.</b></li> </ul>
<p><b><u>6. Action Item 6: (Update PTI Publication DC20.7-01)</u></b>  6.1 Form a Task Group to work with DC-20 to update DC20.7-01: Design,</p>	<p>6.1 Form a Joint DC-20/DC-25 Task Group to update this publication</p> <ul style="list-style-type: none"> <li>● <b>On hold for now due to other priorities</b></li> <li>● <b>Address again at 2022 PTI Convention.</b></li> </ul>

Agenda Item	Expected Outcome / Actions Taken
Construction and Maintenance of CIP PT Concrete Parking Structures	
<p><b><u>7. Action Item 7: (Code Changes for Competitive Advantage)</u></b>  7.1 Identify code change proposals which would improve CIP/PT parking structure economy.</p>	<p>7.1 Parking structure code change proposals we can push to the TAB TG on Code Change Proposals for ACI 318-T + PTI/ACI 320</p> <ul style="list-style-type: none"> <li>• As min. and all non-prestressed reinforcement</li> <li>• ¾ H versus D/2 on stirrup spacing.</li> <li>• ASCE 7 concentrated wheel load. Prof. Gamble paper. <b>Maybe 2 kip each, two wheel loads instead of only single point load.</b></li> <li>• IBC 2021 sprinklered <b>open</b> parking garage</li> <li>• ASCE shear wall values</li> <li>• <b>Are any of these noted above ready to send to the TAB TG?</b></li> <li>• <b>Are there any new items?</b></li> <li>• <b>Reduction of 318 min. steel in some cases could require a lot of new testing/research.</b></li> <li>• <b>Backup bars congestion.</b></li> </ul>
<p><b><u>8. Action Item 8: (Tech Notes and FAQs)</u></b>  8.1 New Tech Note and FAQ ideas</p>	<p>8.1 Tech Note and FAQ proposals</p> <ul style="list-style-type: none"> <li>• Adaptive reuse of PT garages including PT's advantage to do so when compared to other structural systems.</li> <li>• One-to-two-page advantages piece that will eventually be forwarded to marketing for polish.</li> <li>• <b>Are there any new TN or FAQ ideas?</b></li> <li>• <b>Finish other TN priority work first</b></li> <li>• <b>On hold</b></li> </ul>
<p><b><u>D. New Business</u></b>  D.1</p>	<p>D.1 <b>PCI Journal article on BRB system. R value of 8.</b></p>
<p><b><u>E. Next Meeting</u></b>  2022 PTI Convention,  Hilton La Jolla Torrey Pines, La Jolla, CA  April 24-27, 2022</p> <p><b>Web Meetings:</b></p>	<p>E.1</p>
<p><b><u>F. Adjourn</u></b></p>	<p>Meeting adjourned at <b>10:02 am ET</b></p>

**AGENDA / MEETING EXHIBITS**

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

## Committee Attendance Sheet

Committee: DC-25

Date: 10/6/2021

Meeting Location: \_\_\_\_\_

\* I have read, understand, and agree to comply with PTI Anti-Trust Policy (attached).

Note to Committee members and visitors: All Committee meetings of the Post-Tensioning Institute should be conducted in a manner encouraging free and open discussion and debate of agenda items and matter properly before that Committee. Committee members and visitors are cautioned that such discussion and debate is solely for the purposes of the Charter of the Committee and PTI business. To that end, Committee discussions and debates are not considered public in nature, and, as such are to be held in confidence and do not become the official policy of PTI until properly reported, balloted, and published pursuant to procedures established by or by the adoption by the PTI Board of Directors. Committee members and visitors shall not quote, publish, use, or make use of, any oral or written drafts, drawings, calculations, or other materials, which are uttered or transcribed during the course of such meetings.

#	Name	Company	Voting/ Associate/ Guest	E-Mail	Policy*
1	ZUMVEI Xia	Structural Technologies	V	zxia@structuraltec.com	ZX
2	MARTIN MAINAOT	SCA CONSULTING ENGI	V	MAINAOTM@SCAENGINEERS.COM	MM
3	JARED REIGSTAD	PS=Ø	G	jmpourstripØ.com	JRC
4	BYRON BENSON	BEKABERT	G	BYRON.BENSON@BEKABERT.COM	BB
5	PETE SCOPPA	PT USA	G	PSCOPPA@PTUS.US	PS
6	Lance Osborne	Leviat <sup>MB</sup> Halters Thermomix	G	Lance.Osborne@Leviat.US	LO
7	ASIT. BAXI	Baxi Engineering.	V	asit@baxi-eng...	AB
8	David Peratta	Unitech	G	dperatta@unitech.com	DP
9					
10					
11					
12					
13					
14					
15					



Meeting ID	Topic	Start Time	End Time	User Email	Duration (Minutes)
86134029759	PTI DC-25 Parking Structures Committee Meeting	10/6/2021 6:28	10/6/2021 9:03	tim.christle@post-tensioning.org	155
Name (Original Name)	User Email	Join Time	Leave Time	Duration (Minutes)	Guest
Tim Christle	tim.christle@post-tensioning.org	10/6/2021 6:28	10/6/2021 9:03		155 No
PTI Committee Days		10/6/2021 6:41	10/6/2021 9:02		142 Yes
Michael Pedraza	mpedraza@unitedforming.com	10/6/2021 6:56	10/6/2021 9:03		127 Yes
Matt Poling		10/6/2021 6:56	10/6/2021 9:03		127 Yes
Prakash Surali		10/6/2021 6:57	10/6/2021 9:03		126 Yes
Rattan		10/6/2021 6:57	10/6/2021 9:03		126 Yes
DWilken		10/6/2021 6:57	10/6/2021 9:03		126 Yes
Rashid Ahmed		10/6/2021 7:00	10/6/2021 9:03		123 Yes
Neel Khosa		10/6/2021 7:01	10/6/2021 9:03		122 Yes
Mohanish		10/6/2021 7:04	10/6/2021 9:03		119 Yes
DWilken		10/6/2021 6:57	10/6/2021 7:50		53 Yes
Anantha Chittur		10/6/2021 8:16	10/6/2021 9:03		47 Yes
Anantha Chittur (Anantha Chittur [BASE])		10/6/2021 7:00	10/6/2021 7:45		46 Yes
Anantha Chittur		10/6/2021 7:45	10/6/2021 8:16		32 Yes
Evan Langston	evan@pt-mfg.com	10/6/2021 8:47	10/6/2021 9:02		15 Yes
Pawan Gupta	pawan@pcubedassociates.com	10/6/2021 8:54	10/6/2021 9:03		9 Yes
Tresa Johnson	tjohnson@birmingham.k12.mi.us	10/6/2021 6:35	10/6/2021 6:40		6 Yes
PTI Committee Days		10/6/2021 6:35	10/6/2021 6:40		5 Yes

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.