

AGENDA

DC-35: Prestressed Rock & Soil Anchor Committee

Thursday, October 7, 2021

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

Hyatt Regency Coconut Point – Bonita Springs, FL

Voting Members Present (X of 12)

Andrew Baxter - Chair
GEI Consultants

Justin Crummett
Bureau of Reclamation

Robert Scott
Keller North America

Tim Christle
Post-Tensioning Institute
Representative

Roger Frenn
Dywidag-Systems International
Canada

Peter Speier
Williams Form Engineering

Francis Arland
Muesser Rutledge Consulting
Engineers

Eberhard Heinzemann
GSS Titan

Chris Wilkinson
Nucor Skyline Steel

Rich Barrows
FHWA

Michael McCray
U.S. Army Corps of Engineers

Nate Witter
Nicholson Construction Company

Matthew Niermann
Schnabel Foundation Company

Associate Members Present

Asit Baxi, TAB Contact
Baxi Engineering, Inc.

Zhen Cai
Dywidag-Systems International

Doug Hardin
Schnabel Geostuctural Design &
Construction

Donald Bruce
Geosystems, L.P.

Julio Diamante
Summit Alliance, LLC

Visitors

ACTION ITEMS FROM LAST / THIS MEETING

Item #	Subject	Action	Responsible	Deadline / Completed
1.1	Re-assemble new DC-35 Committee for updated publication cycle	Committee for this cycle has been established. This item can be closed.	Closed	Closed
2.1	Revise and update: DC35.1-XX Recommendations for Prestressed Rock and Soil Anchors	Determine modifications and additions desired for the next edition of this publication	All	Ongoing
3.1	Mission statement update	An updated mission statement for the committee was developed and unanimously accepted. Close this item.	Closed	Closed
D.1	Technical Note regarding other materials being used.	In-applicability of materials other than low relaxation-ASTM 722 bar.	All	Ongoing
D.2	PTI Journal article on P-R&S anchors	Does anyone have an article to contribute?	All	Ongoing
D.3	Technical Paper on P-R&S anchors	Any ideas for a Technical Paper?	All	Ongoing
D.4	FAQ on P-R&S anchors	Any ideas for an FAQ publication?	All	Ongoing

Agenda Item	Expected Outcome / Actions Taken
A. General A.1 Call to Order A.2 Introductions A.3 Committee Roster / Changes A.4 PTI Antitrust Policy	A.1 Call to order at XX:XX am ET A.2 A.3 We welcome voting member Justin Crummett who was seated on the committee just before the 4/19/21 meeting but not added to the roster document until just after that meeting. The full committee for this update cycle is 12 voting members and 5 associate members. A.4 Policy reminder included with Agenda

Agenda Item	Expected Outcome / Actions Taken
B. Agenda & Minutes B.1 Approval of Agenda B.2 Approval of Minutes from 4/19/21 (Meeting ballot required)	B.1 B.2 Vote on approval of Minutes from 4/19/21 Virtual Convention Meeting Motion / Second: Name/Name Result: X-X-X (Y-N-A)
C. Actions Taken Between Meetings C.1 Letter Ballots C.2 Web Meetings	C.1 None C.2 None
2. Action Item 2: (DC35.1-XX) 2.1 Revise and update DC35.1-XX Recommendations for Prestressed Rock and Soil Anchors	2.1 Determine modifications and additions desired for the next addition of this publication. 2.1.1 Topics to address in the next edition. <ul style="list-style-type: none"> • 2.1.2 Task Groups that need to be formed to work on specific portions of the next edition. <ul style="list-style-type: none"> •
4. Action Item 4: (Technical Note on P-R&S anchors) 4.1 Technical Note regarding other materials being used.	4.1 In-applicability of materials other than low relaxation-ASTM 722 bar.
5. Action Item 5: (PTI Journal article on P-R&S anchors) 5.1 PTI Journal article on P-R&S anchors	5.1 Does anyone have an article to contribute?
6. Action Item 6: (Technical Paper on P-R&S anchors) 6.1 Technical Paper on P-R&S anchors	6.1 Any ideas for a Technical Paper?

Agenda Item	Expected Outcome / Actions Taken
7. Action Item 7: (FAQ on P-R&S anchors) 7.1 FAQ on P-R&S anchors	7.1 Any ideas for an FAQ publication?
D. New Business D.1	D.1
E. Next Meeting 2022 PTI Convention, Hilton La Jolla Torrey Pines, La Jolla, CA April 24-27, 2022 Web Meetings:	E.1 Establish frequency of meetings.
F. Adjourn	Meeting was adjourned at XX:XX am ET

AGENDA / MEETING EXHIBITS

Exhibit #	Subject
Roster / A.4	Sign In Sheet / PTI Anti-Trust Policy
B.2	210419 DC-35 Minutes 04-19-21 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-35: Prestressed Rock & Soil Anchor Committee**

Monday, April 19, 2021

10:00 a.m. - 12:00 p.m. Eastern

Virtual Convention Meeting via Zoom

Voting Members Present (9 of 11)

Andrew Baxter - Chair
GEI Consultants

Tim Christle
Post-Tensioning Institute
Representative

Francis Arland
Muesser Rutledge Consulting
Engineers

Rich Barrows
FHWA

Roger Frenn
Dywidag-Systems International
Canada

Eberhard Heinzemann
GSS Titan

Michael McCray
U.S. Army Corps of Engineers

Matthew Niermann
Schnabel Foundation Company

Robert Scott
Keller North America

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Nucor Skyline Steel

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Associate Members Present

Asit Baxi, TAB Contact
Baxi Engineering, Inc.

Donald Bruce
Geosystems, L.P.

Zhen Cai
Dywidag-Systems International

Julio Diamante
AECOM

Doug Hardin
Schnabel Geostructural Design &
Construction

Visitors

Thomas Fetzer

Calvin Cheng

Tony Johnson

Tiffany Poon

Asisclo Villafuerte

Neel Khosa

Jillian Van Enckevort

Adam Lindberg

Francois Sangnier

Russell Price

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Agenda Item	Expected Outcome / Actions Taken
A. <u>General</u> A.1 Call to Order A.2 Introductions A.3 Committee Roster / Changes A.4 PTI Antitrust Policy	A.1 Call to order at 10:00 am ET A.2 Everyone introduced themselves. A.3 New Voting Members for this committee cycle are Andrew Baxter (New Chair), Francis Arland, Rich Barrows, Roger Frenn, Eberhard Heinzemann, Michael McCray, Matt Niermann, Robert Scott, Peter Speier, Chris Wilkinson and Nate Witter. New Associate Members for

Agenda Item	Expected Outcome / Actions Taken
	<p>this committee cycle are Asit Baxi (TAB Contact), Donald Bruce, Zhen Cai, Julio Diamante and Doug Hardin.</p> <p>A.4 Policy reminder included with Agenda</p>
<p>B. Agenda & Minutes B.1 Approval of Agenda B.2 Approval of Minutes from (Meeting ballot required)</p>	<p>B.1 B.2 N/A for this meeting since the previous meeting was pre-assembly of the new committee and not official committee business. It was an unofficial meeting to determine interest in the next cycle, gather ideas and kickoff the process of forming the new committee. Vote on Minutes from XX/XX/XX approval Motion / Second: Name / Name Result: X-X-X (Y-N-A)</p>
<p>C. Actions Taken Between Meetings C.1 Letter Ballots C.2 Web Meetings</p>	<p>C.1 N/A C.2 N/A</p>
<p>1. Action Item 1: (New DC-35 Committee) 1.1. Re-assemble new committee for updated publication cycle.</p>	<p>1.1 New committee has been formed with Andy Baxter as the new Chair. There are currently 11 voting members and 5 associate members. Others interested in joining this committee as an associate member may submit their application to Tim and Andy. This action item can be closed.</p>
<p>2. Action Item 2: (DC35.1-XX) 2.1 Revise and update DC35.1-XX Recommendations for Prestressed Rock and Soil Anchors</p>	<p>2.1 Determine modifications and additions desired for the next addition of this publication.</p> <p>2.1.1 Topics to address in the next edition.</p> <ul style="list-style-type: none"> • Maybe target 2024 date for next issue • Maybe a technical note for an urgent topic to communicate to industry. • Balloting process does take some time. • Use of A722 bar and A722 like bar in this publication. • Pete discussed ASTM process. Trying to change A722 via task group. Cold stress and stress relieved requirement revision. • A722 is a process specification. • Suppliers don't want to supply a non-conforming bar. • Mike is working on a creep, relaxation research. Limited to DSI steel on Bluestone. • Pete is working on creep research too. • Do couplers add to relaxation?

Agenda Item	Expected Outcome / Actions Taken
	<ul style="list-style-type: none"> • Peterman testing mentioned by Chris W. • Focus our committee on defining these special materials and what does or does not fit into our document. • Team to discuss creep test Pete, Mike, Chris, Nate, Eberhard, Roger, Andy, Doug. • Team to discuss non-A722 material: Pete, Chris, Roger, Andy • Discuss and figure out how to address industry misunderstanding and misuse of DC-35 with A615 bar and FRP reinforcing bar. <p>2.1.2 Task Groups that need to be formed to work on specific portions of the next edition.</p>
<p>3. Action Item 3: (Mission Statement) 3.1 Establish updated mission statement for the committee.</p>	<p>3.1</p> <ul style="list-style-type: none"> • Existing mission statement is: Develop and report information on the design and construction of rock and soil anchors. • Proposed new mission statement is: Develop and report information on the design and construction of prestressed rock and soil anchors. • Motion to accept proposed change to mission statement. Motion: Pete Second: Matt Vote: 9-0-0
<p>D. New Business D.1 Technical Note regarding other materials being used. D.2 PTI Journal article on P-R&S anchors D.3 Technical Paper on P-R&S anchors D.4 FAQ on P-R&S anchors</p>	<p>D.1</p> <ul style="list-style-type: none"> • In-applicability of materials other than low relaxation-ASTM 722 bar. <p>D.2 Tim reminded people to submit articles for Journal if they have one. D.3 D.4</p>
<p>E. Next Meeting 2021 PTI Committee Days, Hyatt Regency Coconut Point Resort & Spa, Bonita Springs, FL October 5-8, 2021</p>	<p>E.1 Establish frequency of meetings. Also have web meetings for smaller teams to meet and get working. DFI is October 12-15. ADSC next month and October 25-27.</p>

Agenda Item	Expected Outcome / Actions Taken
Web Meetings:	
F. <u>Adjourn</u>	Meeting was adjourned at 11:07 am CT Motion, Pete, Second, Mike.

AGENDA / MEETING EXHIBITS

Exhibit #	Subject
Roster / A.4	Zoom Attendance Report / PTI Anti-Trust Policy

Meeting ID	Topic	Start Time	End Time
87223409602	DC-35 Prestressed Rock & Soil Anchor Committee Meeting	4/19/2021 9:56	4/19/2021 12:08
Name (Original Name)	User Email	Total Duration (Minutes)	
Tim Christle	tim.christle@post-tensioning.org	133	
Andy Baxter (Andrew Baxter)		133	
Chris Wilkinson	cwilkinson30@gmail.com	132	
Bob Scott		132	
Eberhard Heinzemann		132	
nathaniel.witter		131	
Michael S. McCray		131	
Matt Niermann		130	
Pete Speier	pspeier@williamsform.com	128	
Thomas Fetzter (Carol and Thomas)		127	
Roger Frenn (Roger)		126	
calvin cheng		124	
Tony Johnson	tony.johnson@post-tensioning.org	123	
doug.hardin		115	
Tiffany Poon	tiffanympoon@gmail.com	90	
bills		89	
Asisclo Villafuerte	villafuerte.asisclo@gmail.com	61	
MMB		52	
Nagaraj		49	
Neel		31	
Jillian van Enckevort (FTF Eng)		30	
Adam Lindberg		5	
Francois Sangnier (ACI Quebec)	info@aciquebec.com	2	
Sara Steptoe-Campbell	sara.step toe-campbell@post-tensioning.org	2	
RPrice		2	

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