



AGENDA

DC-10 Slab-on-Ground Committee

Monday, May 6, 2019

1:30 p.m. to 5:30 p.m.

Hyatt Regency Seattle

Voting Members Present (x of 20)

Tony Childress, Chair
Childress Engineering Services,
Inc.

Dean Read, Vice Chair
MLAW Forensics, Inc.

Amy Dowell
Post-Tensioning Institute

John T Bryant
Bryant Consultants, Inc.

Darren L Buck
Suncoast Post-Tension Ltd

Kenneth Douglass
Eric L. Davis Engineering

Brian Eubanks
Paragon Structural Engineering,
LTD

Peter Fleming
Geo-Technologies Inc

Jack Graves Jr
Builders Post-Tension DFW, Inc.

Don Illingworth
Don Illingworth and Associates

Brian M Juedes
Meritage Homes

Jerald Kunkel
Jerald W Kunkel Consulting
Engineers

Harley Nethken
Tech-Con Systems Inc

Daniel Overton
Engineering Analytics, Inc.

Homer Parker Jr
Parker Engineering, Inc.

David Peralta
Unintech Consulting Engineers,
Inc.

Andy Rapier
Protex

Donald Shaheen Jr
DPIS Engineering LLC

Mervin Snowden
Snowden Engineering, Inc.

Tami Spicer
STRAND

Ryne Stoker
Geotek Inc

Associate Members Present

Lowell Brumley
Tri-Tech Engineering, L.P.

Chris Burkle
Suncoast Post-Tension, Ltd.

Fabio Albino De Souza
Unicamp EBPX

David Hohman
Superior Post Tension, LLC

John Kennedy
Martin Specialty Products

Derrick Lee
Consolidated Reinforcement

Rene Luft
Consultant

Jared Rosenquist
General Technologies, Inc.

Michael Scanlon
Norex Engineering, Inc.

Jonathan Smith
Acadian Structural Solutions

David Sparks
Felten Group

Christian Wurtz
Post Tension Plugs

ACTION ITEMS FROM LAST / THIS MEETING

Item #	Subject	Action	Responsible	Deadline / Completed
	Eccentricity of Tendon Forces	circulate drafts of Juedes and Aalami paper for committee review. Set up conference call mid-October to discuss and organize TG	Staff	9/26/18 10/12/18 ongoing
	SOG User Guide - Geotechnical	Finalize draft and send for ballot		Started January 2019

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	
B. <u>Agenda & Minutes</u> B.1 Approval of Agenda B.2 Approval of Minutes from 9/26/18 and 3/21/19 (Meeting ballot required)	B.2 Vote on Minutes from 9/26/18 approval Motion / Second: Name / Name Result: X-X-X (Y-N-A) Vote on Minutes from 3/21/19 approval Motion / Second: Name / Name Result: X-X-X (Y-N-A)
C. <u>Actions Taken Between Meetings</u> C.1 Letter Ballots (1901, 1902, 1903, & 1904) C.2 Web Meetings (3/21/19)	1901-SOG User Guide Geotechnical – Chapters 13 & 14 1902-SOG User Guide Geotechnical – Chapters 15 & 16 1903-Respond to Public Review Comments on DC10.5-19 1904-SOG User Guide Geotechnical – Chapters 17 & 18 C.2 WM to respond to Public Review Comments on DC10.5-19 and resolve negatives on Ballot 1901
1. <u>Action Item 1: (Sport Court Document Update)</u> 1.1. Update – Jack Graves	1.1 Draft status update

Agenda Item	Expected Outcome / Actions Taken
<p><u>2. Action Item 2: (DC10.5-12 Standard– Task Group Updates)</u></p> <p>2.1 Geotechnical equation modification / Dean</p> <p>2.2 Beam Depth Ratio / Don S.</p> <p>2.3a Eccentricity of tendon forces Brian / Dean</p> <p>2.3b Maximum Tendon Spacing Dean</p> <p>2.4 Collapsible Soil Definition and Standards</p> <p>2.5 Compressible Soil Definition and Standards</p> <p>2.6 Long Design Rectangles/Moment Magnifier</p>	<p>2.1 Update on progress: Change suction-compression index to a function of -2micron rather than -2micron/-200</p> <p>2.2 Still working: Tony Childress will help Brian Juedes: 20% is generous upon examination</p> <p>2.3a TG update</p> <p>2.3b Update at next meeting</p> <p>2.4 TG to meet in mid-October</p> <ul style="list-style-type: none"> • Looking for similar approach to stable soil • Ryne Stoker: Need something out there for guidance • Answer for structural slab will be same as edge drop • Can we apply PTI method? • Geotech's need to find way to determine area over which collapse occurs • Ryne will lead TG (Andy Rapier, Dan Overton, Homer Parker, Jr, John Bryant, Dean Dead) <p>2.5 New TG needed</p> <ul style="list-style-type: none"> • Same as above-combined TG <p>2.6 Chad with Strand presented balloted proposal.</p> <ul style="list-style-type: none"> • Suggestion to <ol style="list-style-type: none"> 1. Remove aspect ratio 2. Cap LL to 6B for stiffness calcs • Brian Juedes: negatives unresolved, suggested breaking into 2 problems and solving using principles of T's plate theory
<p><u>3. Action Item 3: (User Guide – Geotechnical Update)</u></p> <p>3.1 discuss scope of negatives</p>	<p>3.1 discuss scope of negative comments and develop schedule of web meetings to resolve negatives individually</p>

Agenda Item	Expected Outcome / Actions Taken
4. <u>Action Item 4: (User Guide - Structural)</u> 4.1 Update	4.1 Summary of outstanding issues and items that need to be re-balloted
5. <u>Action Item 5: (User Guide – Design Examples)</u> 5.1 Update	5.1 Design examples to start ballot Summer 2019
D. <u>New Business</u> D.1	D.1 Add PTI Certification number field to example stressing log in back of DC10.2-17
E. <u>Next Meeting</u> 2019 PTI Committee Days, Santa Fe, New Mexico October 2-4, 2019 Web Meetings:	
F. <u>Adjourn</u>	

AGENDA / MEETING EXHIBITS

Exhibit #	Subject
Roster / A.4	Sign-In Sheet / PTI Anti-Trust Policy
B.2	Minutes from 9/26/18 and 3/21/19



POST-TENSIONING
INSTITUTE®

MINUTES

PTI DC-10 Slab-on-Ground Committee

September 26, 2018

8:00 AM to 12:00 PM

The Antlers, Colorado Springs, CO

Voting Members Present (11 of 19)

Tony Childress, Chair
Dean Read, Vice Chair
John Bryant
Dan Buck
Ken Douglass
Peter Fleming
Jack Graves, Jr.
Don Illingworth, TAB Contact
Brian Juedes
Jerald Kunkel
Harley Nethken
Dan Overton
Homer Parker
David Peralta
Andy Rapier
Don Shaheen
Merv Snowden
Tami Spicer
Ryne Stoker
Amy Dowell, NV

Tony Childress Engineering Services, Inc.
MLAW Forensics, Inc.
Bryant Consultants, Inc.
Suncoast Post-Tension, Ltd.
Eric L. Davis Engineering
Geotechnical Testing & Inspections
Builders Post-Tension
Don Illingworth & Associates, Inc.
Meritage Homes
Jerald W. Kunkel Consulting Engineers, Inc.
Tech-Con Systems, Inc.
Engineering Analytics, Inc.
Parker Engineering, LLC
Unintech Consulting Engineers, Inc.
ProTex – the PT Xperts, Inc.
DPIS Engineering
Snowden Engineering, Inc.
Strand Systems Engineering, Inc.
Geotek, Inc.
PTI Staff

Associate Members Present

Fábio Albino de Souza
Lowell Brumley
Brian Eubanks
David Hohman
John Kennedy
Derrick Lee
Rene Luft
Michael Scanlon
Jonathan Smith
David Sparks
Coy Williams
Christian Wurtz

EPBX Brazil
Tri-Tech Engineering, LP
PSE Global
Superior Post-Tensioning
Martin Specialty Products
Consolidated Reinforcement, Inc.
Consultant
Norex Engineering
Acadian Structural Solutions
Felten Group, Inc.
Consolidated Reinforcement, Inc.
Post Tension Plugs

Visitors

Ricki Abney
Jerry Jensen
Chad Konger
Tim Lipasek
Chris Tolley
Bjorn Vors
William Wesley

Houston Post Tension
Entec Polymers
Strand Systems Engineering, Inc.
DPIS Engineering
Precision-Hayes International
University of Saskatchewan
Elkins Tri-Steel

ACTION ITEMS FROM LAST / THIS MEETING

Item #	Subject	Action	Responsible	Deadline / Completed
2.3a	Eccentricity of Tendon Forces	circulate drafts of Juedes and Aalami paper for committee review.	Staff	9/26/18
		Set up conference call mid-October to discuss and organize TG		10/12/18
4.1	SOG User Guide - Geotechnical	Finalize draft and send for ballot		

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.5 Annual Report Review	A.1 Tony Childress called the meeting to order with a moment of gratitude A.2 Present introduced themselves A.3 There have been no additions to the roster since the last meeting. A.4 All present were reminded of the antitrust policy and acknowledged compliance by initialing A.5 The annual report was reviewed and will be forwarded to TAB after this meeting.
B. Agenda & Minutes B.1 Approval of Agenda B.2 Approval of Minutes from 10/4/17, 3/22/18, 4/5/18, 4/19/18, 5/3/18, 5/7/18, 7/27/18 and 9/14/18 (Meeting ballot required)	B.1 No additional items were added to the agenda B.2 Vote on Minutes from 10/4/17 approval Motion / Second: Name / Name Result: 11-0-0 (Y-N-A) Vote on Minutes from 3/22/18 approval Motion / Second: Name / Name Result: 11-0-0 (Y-N-A) Vote on Minutes from 4/5/18 approval Motion / Second: Name / Name Result: 11-0-0 (Y-N-A) Vote on Minutes from 4/19/18 approval Motion / Second: Name / Name Result: 11-0-0 (Y-N-A)

Agenda Item	Expected Outcome / Actions Taken
	<p>Vote on Minutes from 5/3/18 approval Motion / Second: Name / Name Result: 11-0-0 (Y-N-A)</p> <p>Vote on Minutes from 5/7/18 approval Motion / Second: Name / Name Result: 11-0-0 (Y-N-A)</p> <p>Vote on Minutes from 7/27/18 approval Motion / Second: Name / Name Result: 11-0-0 (Y-N-A)</p> <p>Vote on Minutes from 9/14/18 approval Motion / Second: Name / Name Result: 11-0-0 (Y-N-A)</p>
<p><u>C. Actions Taken Between Meetings</u></p> <p>C.1 Letter Ballots (1803-DC10.5 Update for Stable Soil Design)</p> <p>C.2 Web Meeting (7/27/18 and 9/14/18)</p>	<p>C.1 Ballot passed and DC10.5 is currently being reviewed by TAB</p> <ul style="list-style-type: none"> • Document name change-approved to include stable soils • Design rectangles- approved • SF redefined-approved • Long Rectangle Moment-unresolved <p>C.2 For information.</p>
<p><u>1. Action Item 1: (Sport Court Document Update)</u></p> <p>1.1. Update</p>	<p>1.1 Open items needed in the update of DC10.10.3-06 were reviewed:</p> <ul style="list-style-type: none"> • Delegating items to various group members • Harley and Homer will address pictures • Remaining items will be addressed this afternoon at the DC-10 TG-Construction and Maintenance Meeting • Jack will collect submissions and come to PTI offices in November to finalize the draft.
<p><u>2. Action Item 2: (DC10.5-12 Standard– Task Group Updates)</u></p> <p>2.1 Geotechnical equation modification / Dean</p> <p>2.2 Beam Depth Ratio / Don S.</p> <p>2.3a Eccentricity of tendon forces</p>	<p>2.1 Dean Read not present. Change suction-compression index to a function of -2micron rather than -2micron/-200</p> <p>2.2 Still working: Tony Childress will help Brian Juedes: 20% is generous upon examination</p> <p>2.3a Brian Juedes paper was reviewed by PTI Journal reviewers and was too controversial to publish</p>

Agenda Item	Expected Outcome / Actions Taken
<p>Brian / Dean</p> <p>2.3b Maximum Tendon Spacing Dean</p> <p>2.4 Collapsible Soil Definition and Standards</p> <p>2.5 Compressible Soil Definition and Standards</p> <p>2.6 Long Design Rectangles/Moment Magnifier</p>	<ul style="list-style-type: none"> • P*E end moment dissipates for SoG • Need work to determine solution, will require more section modulus • Action Item – circulate drafts of Juedes and Aalami paper for committee review. Set up conference call to discuss and organize TG <p>2.3b Update at next meeting</p> <p>2.4 TG to meet in mid-October</p> <ul style="list-style-type: none"> • Looking for similar approach to stable soil • Ryne Stoker: Need something out there for guidance • Answer for structural slab will be same as edge drop • Can we apply PTI method? • Geotech's need to find way to determine area over which collapse occurs • Ryne will lead TG (Andy Rapier, Dan Overton, Homer Parker, Jr, John Bryant, Dean Dead) <p>2.5 New TG needed</p> <ul style="list-style-type: none"> • Same as above-combined TG <p>2.6 Chad with Strand presented balloted proposal.</p> <ul style="list-style-type: none"> • Suggestion to <ol style="list-style-type: none"> 1. Remove aspect ratio 2. Cap LL to 6B for stiffness calcs • Brian Juedes: negatives unresolved, suggested breaking into 2 problems and solving using principles of T's plate theory
<p>3. <u>Action Item 3: (User Guide – Structural Update)</u> 3.1 Update</p>	<p>3.1 Staff and chair to review sections that did not pass and re-ballot.</p>
<p>4. <u>Action Item 4: (User Guide – Geotechnical Update)</u> 4.1 Update</p>	<p>4.1 Action Item: Geotechnical TG to finalize sections and start to ballot mid-October 2018.</p>
<p>5. <u>Action Item 5: (User Guide – Design Examples)</u> 5.1 Update</p>	<p>5.1 Design examples have been fixed and ready to ballot after Geotechnical Section.</p>

Agenda Item	Expected Outcome / Actions Taken
F. <u>Next Meeting</u> 2019 PTI Convention Hyatt Regency Seattle May 5-8, 2019 Web Meetings: as needed	
G. <u>Adjourn</u>	

AGENDA / MEETING EXHIBITS

Exhibit #	Subject
Roster / A.4	Sign-In Sheet / PTI Anti-Trust Policy
A.5	Semi-Annual Report

Committee Attendance Sheet

Committee: DC-10 Slab-on-Ground Date: 9/26/18

Meeting Location: Colorado Springs

* 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	Ken Douglass	Eric L Davis Eng.	V	kend@eldengineering.com	KLD
2	Andy Rapier	ProTex	V	arapier@ProTex-AZ.com	A
3	DAN OVERTON	ENGINEERING ANALYTICS	✓	DOVERTON@ENGANALYTICS.COM	DO
4	Homer Parker	PARICEL Eng	✓	repairxpert@aol.com	HP
5	David Peralta	Unitech Cons. Engrs.	V	dperalta@unitech.com	DP
6	JOHN KENNEDY	MARTIN SPECIALTY PRODUCTS	A	John.Spencer.Kennedy@martinmip.com	JK
7	DAN BUCK	SUNCOAST	V	dbuck@suncoastpt.com	DB
8	MIKE SCANTON	NOREX	A	Mike.scanton@norex.com	MS
9	BJORN VERS	University of Saskatchewan	G	bv318@mail.usask.ca	BV
10	Ricki Abney	Houston Post Tension	G	rabney@houstonposttension.com	RA
11	Chris Tolley	Precision Hayes	G	C.Tolley85@gmail.com	CT
12					
13					
14					
15					

Committee Attendance Sheet

Committee: DC-10 Slab-on-Ground Date: 9/26/18

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#	Name	Company	Voting/ Associate/ Guest	E-Mail	Policy*
1	BRIAN JUEDES	MERITAGE HOMES	V	brian.juedese merityehomes.com	✓
2	Jerry Jensen	Entec Polymets		JJensen entecpolymets.com	✓
3	Hayden Fischer	Bryant Consultants, Inc.	A	hfischer@geoneering.com	✓
4	John T. Bryant	BRYANT CONSULTING	V	jbryant@geoneering.com	✓
5	Ryne C Stoke	GeoTEK	V	rstoke@gestek.usa.com	✓
6	Derrick Lee	Consolidated Reinforcement	A	dlee@critexas.com	✓
7	Jonathan Smith	Acadian Structural	A	jsmithe@acadianss.com	✓
8	David Sparks	Felten Group	A	david.sparks@feltengroup.com	✓
9	Amy Dowell	PTI		amy.dowell@post-tensioning.org	✓
10	Chad Konger	Strand	-	chad.konger@gmail.com	✓
11	Tami Spicer	Strand	✓	Tami@strandac.com	✓
12	Tommy Cribress	CES	✓	TCHIKORCESS @CESGLOBAL.COM	✓
13	Brian Eubanks	Paragon	A	brian@psgldal.com	✓
14	WILLIAM WESLEY	ELKINS TRI-STEEL	G	W.WESLEY@ELKINSTRISTEEL.COM	✓
15	TIMOTHY LIPASEK	DPIS ENGINEERING	A	Tim@DPIS.com	✓

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.

Committee DC-10: Slab-on-Ground Committee

Chair Tony Childress

Date 9/21/18

1. List the progress on goals of your committee during last year:

2017-2018 Goal	Progress
DC10.8-xx: Guide for Performance Evaluation of Slab-on-Ground Foundations / Resolve TAB comments and publish	Published
DC10.5-12 – update	Working on standard update sections for January 7, 2019 publication deadline
DC10.1-xx – SOG User Guide	Resolved negatives on Structural section ballot (1701), working through re-writing sections before re-ballot of items which did not pass.
Develop webinar module content for SOG Structural and Geotechnical design	No progress – next on list after SOG User Guide is published

2. List at least three goals for the upcoming year. Note – all goals are subject to TAB/CAB Approval:

2018-2019 Goals (New documents, revisions of documents, convention presentations or sessions, PTI Journal case studies, research proposals, PT Treasures or Technical Papers, etc.)		Tasks Champion / Expected Completion Date
1	Publish update to DC10.5	Childress/January 2019
2	Re-Ballot SOG User Guide Structural Sections that did not pass previous ballot	Childress-Parker/Fall 2018
3	Ballot SOG User Guide Geotechnical Section	Stoker/Fall 2018
4	Update (based on resolution of structural and geotechnical sections) and ballot examples for SOG User Guide	Ready for ballot / Winter 2019
5	Review SOG Design Presentation, update slides to reflect DC10.5-19, record webinar presentations	TBD/Fall 2019
6	Organize technical session presentation on SOG for Spring 2020 PTI Convention	All/Fall 2019

3. Report detailed progress on already approved document revisions / new documents / technical sessions / PTI Journal Contributions / certification program development, etc.:

Title	Progress in Last 12 Months	Task Champion / Expected Completion Date
DC10.1-xx: SOG User Guide	Balloted Structural Section and resolved many negatives. Sections with major issues are being resolved and will be re-balloted Geotechnical Chapters ready being balloted Fall 2017	Chair
DC10.5-xx: Standard	Balloting changes to standard	Chair/January

Title	Progress in Last 12 Months	Task Champion / Expected Completion Date
Requirements for Design and Analysis of Shallow Post-Tensioned Concrete Foundations on Expansive Soils		2019

4. List new and updated documents you expect to submit to TAB/CAB for review in the next 12 months:

Document Title	Expected Completion Date
DC10.5-xx: Standard Requirements for Design and Analysis of Shallow Post-Tensioned Concrete Foundations on Expansive Soils	Fall 2018 for January 2019 Publication
DC10.1-xx: SOG User Guide	Summer 2019

5. List old documents needing revision.

Document Number / Title	Notes	Task Champion / Expected Completion Date
DC10.3-06: Sport Courts	Construction and Maintenance TG working on document revision	Graves/Summer 2019

6. List subjects for FAQs and / or TNs that would reflect "PTI Position" on issues

Subject	Notes	Task Champion / Expected Completion Date

7. List Technical Session ideas

Topic / Brief Synopsis	Presenter
SOG Design Guide synopsis and case studies for 2020 Convention	TBD

8. List any liaisons or scope conflicts with other committees in PTI or other organizations:

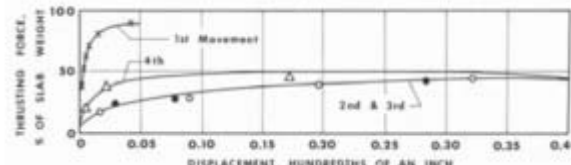
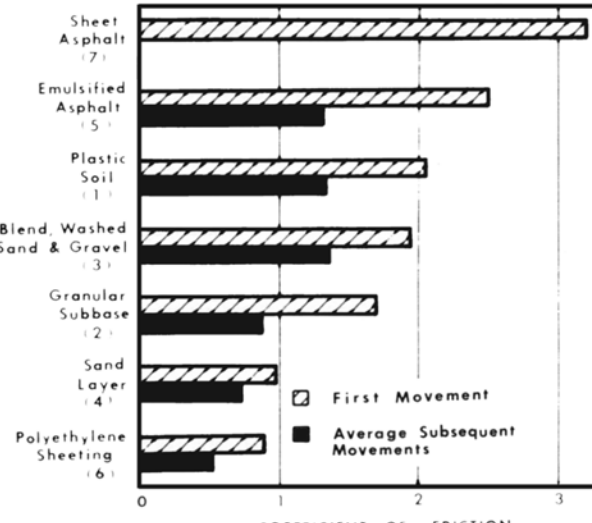
9. List anything you need from PTI Staff:

Please return to: Miroslav Vejvoda
E-mail: miroslav.vejvoda@post-tensioning.org

Document Title: PTI DC10.5-xx Standard Requirements for Design and Analysis of Shallow Post-Tensioned Concrete Foundations on Expansive and Stable Soils Ballot DC-10-1903: Response to Public Review Comments	Ballot Start Date:	March 21, 2019
	Ballot End Date:	April 21, 2019

Comment #	Item / Section #	Comment	Committee Response
1	R4.1.4	<p>I am not an expert on expansive soil, but is this formula correct: $SG = (W_{slab}/2000)(b/L)(m)$ is right?</p> <p>If we are looking at the section for $b=L/2$; then we get $SG = (W_{slab}/2000) (L/2) /L)(m) = (W_{slab}/2000) (/2) (m)$. We are taking an extra half??? $(W_{slab}/1000)(b/L)(m)$??</p>	<p><u>Proposed resolution:</u></p> <p><u>Revise formula to $SG = (W_{slab}/2000)\beta/[L/2](\mu)$</u></p>
2	R4.1.4	<p>Pages 19-20: The description of u range in R4.1.4 applies for general cases and Fig. R4.2 gives an example of 5in.-thick slab. However, the u values mentioned in the text are not clarified if they are “average subsequent movements”. Plus, in the text u values for polyethylene are 0.6-0.75 (“first movement”), but in the Fig. R4.2 it is ca. 0.9 which exceeds this range. In general, this part of u is not clear.</p> <p>Proposed resolution: Make the text and Fig. R4.2 to be consistent with each other and clear.</p>	<p><u>Background:</u></p> <ul style="list-style-type: none"> <u>This commentary section was originally copied from DC10.1-08 Design of Post-Tensioned Slabs-on-Ground.</u> <u>DC10.1-08 is currently being updated and the following wording has been balloted and approved by DC-10.</u> <u>Further editorial changes to the section are recommended as shown in track changes below.</u> <p><u>Change as shown below:</u></p>
		Public Review Text to be Replaced	Proposed text replacement
		<p>R4.1.4 — Loss of prestress</p> <p>Two factors were identified to have an important effect on the magnitude of the coefficient of friction μ. These factors are the amount of movement the slab experiences as a result of shrinkage and temperature effects between the time it is cast and the time it is prestressed, and the material over which sliding occurs.</p> <p>Measured slab movements indicate that summertime concrete placement results in effective μ values in the range of 0.50 to 0.60 for UTFs cast on polyethylene sheeting. Winter placement, which occurs in the southern climates of the United States, may</p>	<p>An extensive review of the technical literature was made in order to determine the value of the coefficient of friction that might be expected to be effective during tendon stressing. As a result of this review three factors were identified as having an important effect upon the magnitude of the coefficient of friction. These factors are: 1) the amount of movement the slab experiences as a result of shrinkage and temperature effects between the time it is cast and the time it is prestressed, 2) temperature of soil at time of stressing, and 3) the material over which sliding occurs.</p>

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		<p>result in displacements corresponding to coefficients still operating on the “1st movements” curve in Fig. R6.1. The effective coefficient for these conditions ranges between 0.60 and 0.75 for polyethylene sheeting.</p> <p>For slabs cast directly on a sand layer, the coefficient has an effective value between 0.75 and 1.00.</p>	 <p><i>Fig. 2-16 Effect of successive slab movements on Timm's 5 in. thick slab cast on polyethylene sheeting</i></p> <p><i>Fig. 2-16 is representative of the effect slab movement has on the magnitude of the friction coefficient. As can be seen, a large force is required to induce movement when the slab has not been previously moved. Once this "first movement" displacement has occurred, subsequent movements require only a fraction of the force initially necessary for movement. Research also shows it is also seen that if slab movements remain very small, the coefficient is also smaller than the maximum value.</i></p>  <p><i>Fig. 2-17R4.1 Summary of Coefficients of friction for 5 in. slabs</i></p>

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			<p>Fig. 2-17R4.1 is representative of the effect different sliding mediums have on the magnitude of the friction coefficient. As can be seen in Fig. 2-17R4.1, even if polyethylene is not required or specified as a vapor retarder, it may prove desirable to place it below the slab in order to achieve a reduction in the friction coefficient.</p> <p>Measured slab movements indicate that concrete placement during hot weather results in effective coefficient of friction values in the range of 0.50 - 0.60 for uniform thickness foundations cast on polyethylene sheeting.</p> <p>Concrete placement during cold weather may result in displacements corresponding to higher coefficients. still operating on the "first movements" curve in Fig. 2-16. The effective coefficient for these conditions ranges between 0.60 and 0.75 for polyethylene.</p> <p>For slabs cast directly on a sand layer, the coefficient has an effective value between 0.75 and 1.00.</p> <p><u>Propose replacing the section of DC10.5-19 to closely match DC10.1-xx.</u></p>
3	R4.1.4	Page 19, paragraph 4, should be "Fig. R4.1" Page 20, paragraph 2, should be "Fig. R4.2" Proposed resolution: Check and correct if needed	<u>Editorial - Change as proposed.</u>
4	5.0	There is no Section 7.2? should it be Sections 7.0 and 7.1? Proposed resolution: Check and correct if needed	<u>Editorial - Change reference to Section 5.1 and 5.2</u>
5	all	Reference index in the text is not subscript in many items, e.g. R4.1.4 paragraph 2&3, 10.2, etc.	<u>Editorial - Updated in editing process.</u>

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6	9.1.1	Notation should be % ₂₀₀ , % _{2u} ? Otherwise, it's confusing in the question in 9.1.1.6. Plus in the equation "#" should be deleted? Proposed resolution: Check and correct if needed	<u>Editorial - Change as proposed.</u>
7	4.2.3	Typo "restress", should be "prestress"? Proposed resolution: Check and correct if needed	<u>Editorial - Change as proposed.</u>