



Telecommunications Industry Association

1310 North Courthouse Road, Suite 890
Arlington, VA 22201 | www.tiaonline.org

Approved by General Counsel

TR-14 Structural Standards for Communication and Small Wind Turbine
Support Structures Engineering Committee

Meeting Date: 17 May 2023

Location: Tulsa, OK

Approved: 11 July 2023



**TR-14 Structural Standards for Communication and Small Wind Turbine Support
Structures Engineering Committee**

<http://www.tiaonline.org/all-standards/committees/tr-14>

Meeting Report

Date: May 17, 2023
Time: 8 – 5 PM, CDT
Location: [Renaissance Tulsa Hotel & Convention Center](#)
Meeting Room: Madrid I-II
Chair: Bryan Lanier, PE, SE
Vice Chair: David Hawkins, PE
Secretary: Chris Ply, PE, SE

Sequence of Topics

1 Administrative/General Business

1.1 Call to Order at 8:12 am CDT

- First Motion: Scott Kisting
- Second Motion: Randy Removchik
- Motion: Approved

1.2 Attendance

- Introduction of Chairman, Vice-Chairman, Secretary, Steering Committee and TIA staff
- Attendance Taken for Quorum (One company, one vote – section 5.2.2 ECOP)

NAME	COMPANY
UDE, BEN	ACCELERATED TOWER ENGINEERING
ZHIANG, CHYU	ALLPRO CONSULTING GROUP, INC
BIGHAM, JOHN	AMERICAN TOWER CORPORATION
DEESE, MICHAEL	AMERICAN TOWER CORPORATION
LANIER, BRYAN	AMERICAN TOWER CORPORATION
MODI, ESHA	AMERICAN TOWER CORPORATION
RUCKER, SARAH	AMERICAN TOWER CORPORATION
WIRGAU, SCOTT	AMERICAN TOWER CORPORATION
SMITH, BRENDAN	AMERICAN TOWER CORPORATION
SHAABAN, AHMED	ASM TECHNOLOGIES
ZAYAN, AHMED	ASM TECHNOLOGIES
ALLEN, VICTOR	AT&T



NOONAN, ROB	AT&T
SANDERS, JERROL	AT&T
MCKEON, JEREMY	AZIMUTH ENGINEERING
CAIADO, KARISHMA	B+T GRP
MACHANI, KISHORE	B+T GRP
MILANOWSKI, BRAD	B+T GRP
SEVIER, BRANDON	B+T GRP
SMITH, PETER	B+T GRP
TUTTLE, CHAD	B+T GRP
VARIAMPARMPIL, JOSEPH	B+T GRP
MACLEOD, DON	BENTLEY SYSTEMS, INC
TANEJA, PANKAJ	BENTLEY SYSTEMS, INC
JIANG, PING	BLACK&VEATCH
KANG, MICHELLE	COLLIER ENGINEERING AND DESIGN
RECINOS, ISMAIAS	COLLIER ENGINEERING AND DESIGN
GIENGER, AL	COMMSCOPE
BRANAGAN, MATT	CROWN CASTLE INTERNATIONAL CORP.
FRESCH, JESSE	CROWN CASTLE INTERNATIONAL CORP.
GRAHAM, MICHAEL	CROWN CASTLE INTERNATIONAL CORP.
HUMEL, JAMAL	CROWN CASTLE INTERNATIONAL CORP.
POOT, AARON	CROWN CASTLE INTERNATIONAL CORP.
REMOVCHIV, RANDY	CROWN CASTLE INTERNATIONAL CORP.
SOUKIS, SPIRO	CROWN CASTLE INTERNATIONAL CORP.
LASSITER, MICHAEL	DELTA OAKS GROUP
KELSEY, BRANDON	DEWBERRY ENGINEERS INC.
PETERMAN, RICHARD	EFI GLOBAL, INC.
HEINE, ERIC	EHRESMANN ENGINEERING INC.
HILLENBRAND, JEFF	ELECTRONICS REASEARCH, INC
ROBINSON, JOHN	ELECTRONICS REASEARCH, INC
BURBAGE, GREG	ELEVATED STRUCTURAL CONSULTANTS
BOST, GEOFF	ENGINEERED TOWER SOLUTIONS
BRIDGES, PAUL	ENGINEERED TOWER SOLUTIONS
MAHENDRA, KOUSTHUB	ENGINEERED TOWER SOLUTIONS
PLY, CHRIS	ENGINEERED TOWER SOLUTIONS
WRIGHT, CHRISTOPHER	ERICSSON INC.
ABEL, DENNIS	FDH INFRASTRUCTURE SERVICES
ATCHELY, CYRUS	FDH INFRASTRUCTURE SERVICES



WILSON, BLAKE	FDH INFRASTRUCTURE SERVICES
MCGUIRE, MIKE	FIELDSYNC
MCGUIRE, SAM	FIELDSYNC
DIAZ, JUSTIN	FORESITE GROUP
REILLY, PHILIP	FORESITE GROUP
RUEDLINGER, ELIAS	FULLWAVE TOWER & BROADCAST, LLC
RUEDLINGER, JAMES	FULLWAVE TOWER & BROADCAST, LLC
DRENNEN, JESSE	GEOSTRUCTURAL
DURGIN, GREGORY	GEOSTRUCTURAL
ZAMANI, FATHULLAH	GEOSTRUCTURAL
BROOKBANK, BRANDON	GPD GROUP
KELLY, BRENDAN	GPD GROUP
PALKOVIC, DAN	GPD GROUP
SHUMWAY, MICAH	GPD GROUP
OJHA, JYOTI	INDEPENDENT ECP PARTICIPANT
VANCE, SCOTT	INDEPENDENT ECP PARTICIPANT
KOHL, ERIC	KCI TECHNOLOGIES, INC/
MOORE, PHILLIP	KENWOOD TELECOM CORP.
PASS, CRAIG T.	KENWOOD TELECOM CORP.
MEDOFF, ZACH	KIMLEY-HORN
OGLESBY, MICHAEL	KIMLEY-HORN
MEDOZA, LUIS	LADERA ENGINEERING GROUP
DAVIS, PATRICK	MASTEC NETWORK SOLUTIONS
GIBSON, COREY	MASTEC NETWORK SOLUTIONS
MACLAREN, BRYAN	MASTEC NETWORK SOLUTIONS
MOHAMED, RAPHAEL	MASTEC NETWORK SOLUTIONS
COOKE, LANCE	MORRISON HERSCHFIELD, LTD.
HAILE, TED	MORRISON HERSCHFIELD, LTD.
REYNOLDS, JOSH	MORRISON HERSCHFIELD, LTD.
BARKER, TYLER	NB+C, LLC
KOLANDAIVE, KRUPAKARAR	NB+C, LLC
REYNOLDS, ANDREW	NB+C, LLC
HAWKINS, DAVID	PAUL J. FORD & COMPANY
KLINE, JUSTIN	PAUL J. FORD & COMPANY
MARTIN, JASON	PAUL J. FORD & COMPANY
RUH, JUSTIN	PAUL J. FORD & COMPANY
THORPE, KYLE	PAUL J. FORD & COMPANY



STEKER, SCOTT	PERFECTVISION MANUFACTURING DBA PERFECT 10
HILL, CHRIS	PM&A
GILKERSON, NATHAN	POWER OF DESIGN GROUP, LLC
HOUDSHELL, MATT	POWER OF DESIGN GROUP, LLC
MALONEY, MATT	POWER OF DESIGN GROUP, LLC
KISTING, SCOTT	PROACTIVE TELECOMMUNICATIONS SOLUTIONS, LLC
MOORE, THOMAS	RAMAKER & ASSOCIATES, INC
REESE, BRIAN	REESE TOWER SERVICES
HACKNEY, CHRIS	REVOLUTIO PTY, LTD
OSMAN, SAMEED	ROHN PRODUCTS LLC
YEO, STEPHEN	ROHN PRODUCTS LLC
BEACOM, ROB	SABRE INDUSTRIES
CARR, RYAN	SABRE INDUSTRIES
FRANCESCHINO, CARLO	SABRE INDUSTRIES
TINDELL, KEITH	SABRE INDUSTRIES
AHUJA, NITESH	SBA COMMUNICATIONS CORPORATION
HAGOS, ASMEROM	SBA COMMUNICATIONS CORPORATION
LADD, DARRYL	SBA COMMUNICATIONS CORPORATION
LLANO, ANDRES	SBA COMMUNICATIONS CORPORATION
SHANUBHOGUE, SHAN	SBA COMMUNICATIONS CORPORATION
YOHANNES, DANIEL	SBA COMMUNICATIONS CORPORATION
TAYLOR, THOMAS	SEMAAN ENGINEERING SOLUTIONS
KATHOL, BRANDON	SGS TOWERS
GUALTIERI, ANTONIO	TECTONIC
CHICKERING, DAVID	TELAMON
HOLT, WILL	TELAMON
SCHAUER, NICK	TELAMON
AMORTNONT, ADAM	TOWER ENGINEERING PROFESSIONALS, INC
GLOVER, RONNIE	TOWER ENGINEERING PROFESSIONALS, INC
TIBBETTS, JARRYD	TOWER ENGINEERING PROFESSIONALS, INC
KONG, JIANWEI	TOWER ENGINEERING SOLUTIONS
NOORZAD, KHAIBAR	TOWER ENGINEERING SOLUTIONS
WYANT, KYLE	TOWER ENGINEERING SOLUTIONS
FEHLHAFFER, STEVE	TOWERKRAFT ENGINEERING, P.C.
NEJMAN, PHILLIP	TOWERSOURCE, LLC
WAHBA, JOHN	TURRIS CORP.



CHAPMAN, BRANDON	VALMOUNT INDUSTRIES, INC
CHAVDA, MITAL	VALMOUNT INDUSTRIES, INC
FERGUSON, LUKE	VALMOUNT INDUSTRIES, INC
HEATH, DALE	VALMOUNT INDUSTRIES, INC
TOENIES, NATHAN	VALMOUNT INDUSTRIES, INC
PRATT, AARON	VERIZON
BOZZETTO, JOHN	VERTICAL BRIDGE
BLAKEMAN, DAN HOLT, THOMAS	VERTICAL STRUCTURES, INC WESTCHESTER SERVICES

- **Quorum achieved at 8:10 am CDT**

1.3 Meeting Agenda Review and Approval

- First Motion: John Wahba
- Second Motion: Pankaj Taneja
- Motion: Approved

1.4 Previous Meeting Report Review and Approval

- First Motion: Randy Removchik
- Second Motion: Lemmy Recinos
- Motion: Approved

1.5 Chair's Report

- Update given by Bryan Lanier

1.6 Telecommunications Industry Foundation

- Presented by Michelle Kang

1.7 Government Liaison

- Update provided by Scott Kisting

2 New Business

2.1 TIA-5053-A Published

- **TIA-5053-A was published in April 2023**

2.2 322 and A10.48 Discussion

- Updated provided by James Ruedlinger
- Expected to be published by Q3

2.3 222 Current Work

- Ad Hoc Group 1: Loads
 - Update presented by Group 1 Leads **Chris Ply & Aaron Poot**
- Ad Hoc Group 2: Structural Steel
 - Update presented by Group 2 Lead **Matt Branagan**
- Ad Hoc Group 3: Guy Assemblies and Other Materials
 - Update presented by Group 3 Lead **Dennis Abel**
- Ad Hoc Group 4: Foundations
 - Update presented by Group 4 Lead **Justin Kline**
- Ad Hoc Group 5: Grounding



- Update presented by Group 5 Lead **Randy Removchik**
- Ad Hoc Group 6: Climbing Facilities
 - Update presented by Group 6 **Geoff Bost**
- Ad Hoc Group 7: Existing Structures
 - Update presented by Group 7 Leads **Tyler Stevens & Esha Modi**
- Ad Hoc Group 8: Mounts
 - Update presented by Group 8 **Michael Oglesby**
- Ad Hoc Group 9: Small Wind Turbines
 - Update presented by Group 9 Lead **Ronnie Glover**
- Ad Hoc Group 10: Structural Oscillations
 - Update presented by Group 10 Lead **John Wahba**
- Ad Hoc Group 11: Baseplates
 - Update presented by Group 11 **Bryan Lanier**
- Ad Hoc Group 12: Monopole Reinforcement
 - Update presented by Group 12 **David Hawkins**
- Ad Hoc Group 13: Water Tanks
 - Update presented by Group Lead **Ronnie Glover**
- Ad Hoc Group 14: Roof Top Mounts
 - Update presented by Group Leads **Jyoti Ojha & Jesse Drennen**
- Ad Hoc Group 15: Weld Crack Evaluation
 - Update presented by Group Lead **David Hawkins & Brian Reese**
- Ad Hoc Group 16: Drones
 - Update presented by Group Leads **Sam McGuire & Robert McCoy**

3 Upcoming Meeting

- Next TR-14 Committee will take place in Omaha, NE October 4-5, 2023
- ANSI/TIA-222-I expected to be published by Q4
- Other business / Standard proposals

4 Adjournment

- Meeting adjourned at 5:05 pm CDT
 - First: Scott Kisting
 - Second: Tony Gualtieri
 - Motion: Approved

This meeting was conducted in accordance with the TIA Legal Guidelines and the engineering procedures.

On May 18th, Ad Hoc groups of TR-14 engineering committee will meet per schedule below.



Location	Time (CST)	Ad Hoc Group / Leader
Meeting Room 1	8:30 - 10 AM	1 - Chris Ply & Aaron Poot
	10 - 11 AM	2 - Matt Branagan
	11 - 12 PM	14 - Jyoti Ojha
	1 - 2:30 PM	12 – David Hawkins
Meeting Room 1	8:30 - 10 AM	322 - James Ruedlinger
	10 - 11 AM	16 - Sam McGuire / Robert McCoy
	11 - 12 PM	5 - Randy Removchik
	1 - 2:30 PM	11 - Bryan Lanier
Meeting Room 1	8:30 - 10 AM	7 - Tyler Stevens / Esha Modi
	10 - 11 AM	4 - Justin Kline
	11 - 12 PM	9 - Ronnie Glover
	1 - 2:30 PM	Open
Meeting Room 1	8:30 - 10 AM	8 - Michael Oglesby
	10 - 11 AM	10 - John Wahba
	11 - 12 PM	6 - Geoff Bost