

Federal Communications Commission



Collocation Workshop

May 1, 2012

FCC Collocation Workshop

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Agenda

- 9:30 AM Opening Remarks**
Jane Jackson, Associate Chief, Wireless Telecommunications Bureau, FCC
Jennifer Manner, Deputy Chief, Public Safety and Homeland Security Bureau, FCC
Anthony Perez, President-Elect, NATOA
Joyce Dickerson, Chair, FCC Intergovernmental Advisory Committee and Councilwoman, Richland County, GA
- 10:00 AM FCC Presentation – The Legal Framework**
Jeffrey Steinberg, Deputy Chief, Spectrum & Competition Policy Division, Wireless Telecommunications Bureau, FCC
- 11:00 AM Panel #1: Technical, Business and Structural Considerations for Collocations**
Brian Kooyman, Manager, Wireless Network/Site Development, Sprint Nextel
Neil Kuplic, Vice President and Director of Structural Engineering Services, FDH Engineering Inc.
Ed Roach, Associate General Counsel for Regulatory Compliance, SBA Communications Corporation
- Moderators:*
Dan Abeyta, Ass't Chief, Spectrum & Competition Policy Division, Wireless Telecommunications Bureau, FCC
Don Johnson, Attorney, Spectrum & Competition Policy Division, Wireless Telecommunications Bureau, FCC
- 12:00 NOON LUNCH BREAK**
- 1:00 PM Remarks and Recognition of Hanover County, VA**
Jane Jackson, Associate Chief, Wireless Telecommunications Bureau, FCC
- 1:15 PM Panel #2: Collocations on Non-Traditional Towers and Other Structures**
Public Safety Towers: Phil Heins, Former Emergency Director, Hanover County, VA
Monica Gambino, Vice President, Crown Castle USA Inc.
Rooftop Collocations: Monica Gambino, Vice President, Crown Castle USA Inc.
AM Radio Towers: Christopher Horne, Chief Technical Officer, LBA Group, Inc.
John Trent, President, Putbreso Hunsaker & Trent
Utility Infrastructure: Connie Durcsak, President, Utilities Telecom Council
Railroad Towers: Robert Raville, Vice President, Railroad Development, Global Towers, LLC
- Moderators:*
Dan Abeyta, Ass't Chief, Spectrum & Competition Policy Division, Wireless Telecommunications Bureau, FCC
Don Johnson, Attorney, Spectrum & Competition Policy Division, Wireless Telecommunications Bureau, FCC
- 2:15 PM Panel #3: Success Stories – State, Local, and Federal Models**
Georgia: Kimberly Adams, Co-Chair of the Regulatory Committee, Georgia Wireless Association
Cary, NC: Timothy Piccirilli, Area Director, Project Management, American Tower Corporation
San Clemente: Tim Brown, Business Development Manager, TowerCo, Inc.
Anaheim, CA: CJ Armstrup, Planning Services Manager, Anaheim, CA
- FCC Collocation Review:**
Nancy Schamu, Executive Director, National Association of State Historic Preservation Officers
William Hackett, Senior Manager of Federal Regulatory Compliance, T-Mobile USA, Inc.
- Rural New Mexico and West Texas:**
Jenna Metznik, Director of Regulatory Compliance, American Tower Corporation
Greg Whiteaker, Counsel, Plateau Telecommunications, LLC
- Moderators:*
Jeffrey Steinberg, Deputy Chief, Spectrum & Competition Policy Division, Wireless Telecommunications Bureau, FCC
Anthony Perez, President-Elect, National Association of Telecommunications Officers & Advisors
- 3:45 PM Wrap-Up and Adjournment**

OPENING REMARKS

Jane Jackson, Associate Chief, Wireless Telecommunications Bureau, FCC



Jane Jackson is Associate Chief of the FCC's Wireless Telecommunications Bureau. Her responsibilities include managing enforcement of federal environmental and historic preservation laws as they affect telecommunications tower construction; oversight of the Auctions and Spectrum Access Division; and managing the Commission's implementation of Hearing Aid Compatibility requirements for wireless phones.

Ms. Jackson was Associate Chief of the Wireline Competition Bureau from 2001- 2005. Before that, she was Chief of the Wireline Bureau's Pricing Division from 1998- 2001, and Deputy Chief of that division from 1996- 1998. Between 1976 and 1996 she served the Commission in a variety of other positions.

Jennifer Manner, Deputy Chief, Public Safety & Homeland Security Bureau, FCC



Jennifer A. Manner is Deputy Chief of the Public Safety & Homeland Security Bureau at the FCC and has a focus on strategy and new technologies. Ms. Manner previously worked as a Principal at ZComm Strategies LLC, where she was a consultant on telecommunications regulatory policy issues. Before that, Ms. Manner was Vice President of Regulatory Affairs at SkyTerra Communications, LLC, where she handled the company's domestic and international regulatory and policy issues. Before joining SkyTerra, Ms. Manner served as Senior Counsel to FCC Commissioner Kathleen Abernathy with responsibility for wireless, international and new technology issues. Ms.

Manner joined the Commissioner's office after working at MCI Communications Corporation, later WorldCom, Inc., as Associate Counsel for Foreign Market Access and then as International Wireless Services and Director of International Alliances. Prior to this position, Ms. Manner was an associate in the Communications Group at Akin, Gump, Strauss, Hauer and Feld, L.P. Before joining Akin, Gump, Ms. Manner was an Attorney-Advisor at the FCC.

Ms. Manner currently serves as an adjunct professor at Georgetown University Law Center. She has also served as an adjunct professor at the Washington College of Law at American University. Ms. Manner has published several books on telecommunications issues and has written numerous law review articles.

Ms. Manner received her B.A. from the State University of New York at Albany, from which she was recently awarded the Distinguished Alumni Award for Political Science. She received her J.D. cum laude from New York Law School and LL.M. with distinction from Georgetown University Law Center. Ms. Manner is admitted to practice in Washington, D.C., New York and Connecticut.

Tony Perez, President-Elect, National Association of Telecommunications Officers & Advisors



Tony Perez is President-elect of the National Association of Telecommunications Officers and Advisors and director of the Seattle Office of Cable Communications. Tony's Office regulates cable operators in Seattle, administers the Seattle Cable Customer Bill of Rights and provides elected officials with expert analysis of cable and broadband issues. He is the creative force behind the Seattle Broadband initiative, which seeks to establish a fiber to the home network in Seattle. Mr. Perez has worked with local governments for 25 years, concentrating on technology issues. Tony currently serves on the Federal Communications Commission's (FCC) Advisory Committee for Diversity in the Digital Age and on the Advisory Board to the University of Washington Law School's Technology Law and Public Policy Clinic. He served four consecutive terms as president of WATOA, the Washington State Chapter of NATOA.

Joyce Dickerson, Chair, FCC Intergovernmental Advisory Committee



Richland County Councilwoman Joyce M. Dickerson was sworn into office in January of 2005 and is extremely committed to the constituents of District #2. Her three main goals are, better manage growth in her community, to improve relations between citizens and county government, and to create economic development opportunities. Prior to being appointed to serve as Chair of the Federal Communications Committee's (FCC) Intergovernmental Advisory Committee (IAC) Councilwoman Dickerson retired as Compliance Auditor and an Independent Business Owner. She is passionate about communication and transportation issues striving to keep America connected and mobile through her Digital Literacy Initiatives which began in 1973 in the telecommunications department using the telex machine. She was re-elected in November 2008 after she ran successfully unopposed. She is a native of Savannah, Georgia and a graduate of Midlands Technical College and a *cum laude* of Benedict College with a degree in Business Administration and Finance.

Since serving on Richland County she has served in numerous capacities; Chair of Administration and Finance Committee, Development and Services Committee, and Chaired Transportation Ad hoc Committee. She serves as a member of Central Midlands Council of Governments Board of Directors, Chair the National Association of Counties (NACo) Telecommunications and Technology, and South Carolina Association of Counties County Council Coalition. In addition, Councilwoman Dickerson serves as President of the National Association of Counties (NACo) Women of NACo Leadership Network and President-Elect of the National Foundation for Women Legislators (NFWL); the NFWL Information and Technology Task Force Committee, affiliated with National Organization for Black Elected Legislators (NOBEL), and the National Multi-Modal Transportation Steering Committee as well as former Chair of Central Midlands Regional Transit Authority.

Councilwoman Dickerson is passionate about the potential role of broadband initiatives relative to economic development and job creations by making it accessible, available and affordable for the unserved and underserved especially in rural America.

FCC Presentation - The Legal Framework

Jeffrey Steinberg, Deputy Chief, Spectrum & Competition Policy Division, WTB, FCC



Jeffrey Steinberg has been Deputy Chief of the FCC's Spectrum and Competition Policy Division and its predecessor, the Commercial Wireless Division, since June 1999. One of his principal responsibilities as Deputy Chief has been management of the Wireless Telecommunications Bureau's work on infrastructure deployment. In this capacity, he contributed to the Commission's April 2011 Notice of Inquiry on Accelerating Broadband Deployment, and he has helped lead the Wireless Telecommunications Bureau's activities following up on that Notice of Inquiry. Among his other principal achievements in his current position are the Nationwide Programmatic Agreement Regarding the Section 106 National Historic Preservation Act Review Process, several orders relating to the Effect of Communications Towers on Migratory Birds, the FCC's November 2009 Declaratory Ruling regarding the timeframes for state and local governments to act on wireless facilities siting applications, and the Local Official's Guide to Transmitting Antenna RF Emission Safety (jointly produced by the FCC and its Local and State Government Advisory Committee).

Prior to his appointment as Deputy Chief, Mr. Steinberg held several positions in the Wireless Telecommunications Bureau and in the Commission's former Cable Services Bureau. Before joining the Commission, he was an associate in the Washington, D.C. office of Sidley & Austin, and he was a clerk for then-Judge Stephen Breyer on the U.S. Court of Appeals in Boston. Mr. Steinberg holds B.A. and J.D. degrees from Yale University.

PANEL #1 – Technical, Business & Structural Considerations

Brian Kooyman, Manager Wireless Network/Site Development, Sprint Nextel



Brian Kooyman, Manager Wireless Network/Site Development, started with Sprint in 1997 working to launch Sprint PCS in the Cleveland Market. His current focus is on collocation support services and national lease management activities. Mr. Kooyman has 15 years of experience in the wireless industry, having held various management positions within Sprint PCS, Sprint Corp, and now Sprint Nextel. In his previous roles at Sprint, Mr. Kooyman managed infrastructure deployment programs for ~7,000 sites & ~5,000 site augmentations, led Sprint's Site Development Standards organization during Nextel's merger with Sprint, and oversaw the consolidation of their site management software. Mr. Kooyman has a Bachelors of Science degree in Technology from Bowling Green State University in Bowling Green, Ohio where he majored in both Architectural Design and Construction Management.

Neil Kuplic, PE, Vice President/Director of Structural Engineering Services, FDH Engineering Services, Inc.



Mr. Kuplic has over 26 years of consulting and construction experience with a diverse range of structural and civil engineering on new, additions and renovation projects. He has constructed commercial projects throughout the U.S. and has held an unlimited General Contractor's license; he has managed multiple design/build companies. Mr. Kuplic is responsible for structural design and construction administration of telecommunication, commercial, industrial, and institutional projects, including the preparation of plans and specifications.

Ed Roach, Associate General Counsel, Regulatory Compliance, SBA Communications Corporation



Ed Roach is Associate General Counsel for Regulatory Compliance for SBA and has been with SBA for 16 years. He is responsible for developing and administering the SBA compliance program to ensure that SBA is in compliance with all government regulations regarding tower siting. He graduated cum laude from the State University of New York at Albany and Pace University School of Law. He spent five years at the Legal Aid Society of New York litigating cases involving indigent clients. He was the President of the Virginia Wireless Association from 2008-2010 and is the current Co-Chair of the PCIA Regulatory Affairs Committee.

PANEL #2 – Collocations on Non-Traditional Towers

Phil Heins, Former Director of the Emergency Communications Department, Hanover County, VA



Effective June 1, 2011 Mr. Heins retired from Hanover County after 35 years of service. During his tenure with the County he served as a Communications Officer, Communications Supervisor and the Director of the Emergency Communications Department for the past 27 years. During his career Mr. Heins was very active in the Virginia Chapter of the Association of Public Safety Officials (APCO) and the Virginia Chapter of the National Emergency Number Association (NENA) and served as President for both Chapters.

Mr. Heins was also very active regionally, he served as Co-Chairman of the Regional 1 Regional Planning Advisory Committee for Interoperability (RPAC-I) and Chairman of the Central Virginia Emergency Communications Group. He also served as Hanover County's voting member for the Capital Regional Communications System Steering Committee.

In 2007 Mr. Heins was appointed by the Governor of Virginia to serve on the State Wireless 911 Services Board which is responsible for the oversight of wireless 911 services and the distribution of 911 funding throughout the Commonwealth. During his tenure with the County, he served as the County's project manager for the County's first enhanced 911 system; the construction of three new 911 centers; and the purchase and oversight of the 1992 P-16, analog, trunked system and the 2010 P-25, digital, trunked Communications system. He also wrote the specification for the Department's Computer Aided Dispatch System which is still in use today.

Monica Gambino, Vice President-Legal, Crown Castle USA Inc.



Monica Gambino currently serves as Vice President - Legal at Crown Castle USA Inc. Ms. Gambino works with the Crown Castle legal and regulatory teams to assure that assets are managed in compliance with the requirements of the FCC, FAA, EPA, local zoning jurisdictions and other regulatory bodies. Ms. Gambino received a B.S. in Biophysics and Microbiology and an M.S. in Environmental Science from the University of Pittsburgh. She graduated magna cum laude from the University of Pittsburgh School of Law in 1990.

Crown Castle owns, operates, and leases towers and other infrastructure for wireless communications. Crown Castle offers significant wireless communications coverage to 92 of the top 100 U.S. markets and to substantially all of the Australian population. Crown Castle owns, operates and manages over 22,000 and approximately 1,600 wireless communication sites in the U.S. and Australia, respectively.

Chris Horne, Chief Technical Officer, LBA Group, Inc.



Dr. Chris Horne, LBA Group, Inc.'s Chief Technical Officer, has over eighteen years of experience in management and engineering of communication systems including wireless networks, RF and fiber optic devices as well as medium wave (MW) antennas. Dr. Horne has performed numerous studies and provided technical support of AM, microwave and cellular systems including frequency coordination, interference mitigation as well as RF safety analysis. Since 1994, he has routinely testified as an expert witness in numerous hearings on site permitting applications for the wireless industry. Dr. Horne leads all engineering activities at LBA in wireless consulting and FCC compliance. He has held several senior management positions in the wireless carrier industry where he has been responsible for network and equipment design, as well as

tower deployment and spectrum coordination. Dr. Horne holds a Ph. D. in Electrical Engineering and a Master of Science – Electrical Engineering from North Carolina State and North Carolina A&T State Universities, respectively. He is a licensed Professional Engineer in North Carolina, Illinois, Arkansas, and Minnesota.

John Trent, President, Putbrese Hunsaker & Trent



John C. Trent is president of the law firm of *Putbrese Hunsaker and Trent, P.C.* (the "Firm"). Originally formed in 1962 by Keith E. Putbrese, the Firm has focused its area of practice on telecommunications law with an emphasis in radio and television mergers, acquisitions and financing. After spending time as a law clerk with the communications group at the law firm Wilmer, Cutler and Pickering, in Washington, D.C., John was invited to join the Firm as an associate in 1990 after his admittance to the Virginia Bar. In 1996, the Firm was reorganized as a professional corporation and John became a shareholder. In 2002, the Firm added long time telecommunications lawyer Lauren A. Colby as "of-counsel".

Mr. Trent is a graduate of George Mason University (B.A., 1984; J.D. 1990); attended George Washington University graduate studies program (1985-86) and was a Lecturer of Communications Law at George Mason University School of Law in 1993.

Mr. Trent is a member of the Virginia State Bar, Federal Communications Bar Association and the National Association of Broadcasters. His Firm represents a number of small, midsize and major market broadcasters. In addition to his legal practice, Mr. Trent has also been an owner of AM and FM stations.

Connie Durcsak, President & CEO, Utilities Telecom Council



Connie Durcsak serves as the Utilities Telecom Council's President and Chief Executive Officer, responsible for the strategic and day - to - day activity of all of UTC's operating units and interests and is a voting member of the Executive Committee of UTC's Board of Directors. Prior to joining UTC, Durcsak served as Executive Director of the DAS Forum, an international trade association dedicated to the development of the distributed antenna systems (DAS) component of the wireless network and as Senior Director of Industry Services for the Personal Communications Industry Association (PCIA). Before joining PCIA, Durcsak served as a Principal Consultant with PricewaterhouseCoopers, LLP. She holds a Masters in Business from Marymount University and a BA and BEd from Acadian

University in Nova Scotia, Canada. Durcsak was recently honored by *Fierce Energy* as one of the 15 most influential people in energy.

Robert Raville, Vice President, Railroad Development, Global Towers, LLC



Mr. Raville joined Global Tower Partners in September of 2010 as Vice President of Railroad Development. In this role, Mr. Raville leads GTP's railroad origination and development platform, with focus on acquiring rights to other railroad portfolios as well as ensuring targets for new sites leased and built on existing systems are met.

Prior to GTP Mr. Raville served as President of CitySwitch, LLC, an affiliate company of Norfolk Southern Corporation ("NS") involved in new tower development, tower management and fiber optic duct leasing along the NS system from early 2008. In this capacity, Mr. Raville was responsible for managing the profit & loss, job cost, cash flow and increase of asset yield for the company, including all aspects of tower development, M&A activity and NS owned tower management. From 2005 to 2008 Mr. Raville served as CitySwitch's Senior Vice President of Development. In 2010, CitySwitch's operating business and assets were sold to GTP.

Prior to CitySwitch, Mr. Raville served as the Senior Site Development Officer and Senior Director of Acquisitions for Unison Site Management, a leading firm in the wireless lease acquisition market. Based in New York City and later in Atlanta, Mr. Raville managed the Southeastern region for the company.

Mr. Raville holds a Bachelors degree from the University of Virginia.

PANEL #3 – Case Studies in Success

Kimberly Adams, Co-Chair of the Regulatory Committee, Georgia Wireless Association

Kimberly Adams is a Zoning and Permitting Manager at Compass Technology Services which is a turnkey services provider for the wireless industry. She has been employed in wireless network deployment since 1995.

During the last fifteen years, she has worked on hundreds of cell sites for almost every major carrier and infrastructure owner in Georgia and throughout the southeast. She was also on the charter committee that formed the Georgia Wireless Association (GWA) in 2004 and currently serves as the GWA's Co-Chair of the Regulatory Committee. The GWA is a non-profit industry group which supports the wireless industry as a whole and also offers outreach and resources to local jurisdictions about the wireless industry.

She is a graduate of Auburn University

Tim Piccirilli, Area Collocation Director, American Tower Corporation



Tim Piccirilli is Area Collocation Director at American Tower Corporation, responsible for the oversight of collocation activity on over 8,500 sites across the Southern region of the United States. He and his team provide sales and leasing support, coordinate customer service delivery, site evaluation and contingency resolution, as well as conduct general project management in support of the wireless industry's infrastructure needs. Beyond supervising more than 23,000 collocations across the United States over the course of his six and a half year tenure, Tim also serves as principal architect of American Tower's U.S. energy strategy.

After earning a B.S. in Systems Engineering at the United States Military Academy at West Point, Tim served five years as an Engineer Officer supporting Army level missions and Corps of Engineer Districts in the Pacific Northwest. After his service and prior to joining the American Tower team, Tim honed his understanding of infrastructure needs and challenges as Division Manager of a general contracting firm supporting New England's utility industry.

Tim Brown, Business Development Manager, TowerCo, Inc.



Tim has twelve years experience in the wireless telecommunications industry in business development, management and operations roles, and is currently the Business Development Manager for TowerCo in Southern California, Las Vegas and Hawaii. He is also the Mayor Pro Tem for the city of San Clemente, California and a member of the City Council. Previous to Council, he served on the city's General Plan Advisory Committee consulting on the update of San Clemente's General Plan. Tim also represents the Council on the city's Economic Development Committee, GMA 11, Coastal Animal Services Authority, Southern California Association of Governments and as the Military Liaison. A former Eagle Scout, he remains active in Scouting as the Finance Chairman

for the El Camino Real District of the Boy Scouts of America. Tim is married to Heather Ballard Brown, and they have four daughters; Skylar, Kennedy, Phoenix and Deveraux.

Nancy Schamu, Executive Director, National Conference of State Historic Preservation Officers



In April 2000 Nancy Schamu became the Executive Director of the National Conference of State Historic Preservation Officers, the professional association of the gubernatorially appointed officials in State government who carry out the nation's historic preservation program for the Secretary of the Interior and the Advisory Council on Historic Preservation. As Executive Director she is the chief executive officer responsible for facilitating communication among the members, the State Historic Preservation Officers, and representing their views with the Administration and its agencies, Congress, national historic preservation community and the private sector.

She represented the SHPOs in the negotiation with the Advisory Council on Historic Preservation And the Federal Communications Commission of both the Collocation and National Programmatic Agreements.

Previously she had been Deputy Director of the National Conference responsible for membership liaison and government relations. She did the principal staff work for the National Conference for the 1992 amendments to the National Historic Preservation Act. Her prior work experience involves four years (1981-1985) as Executive Director of the Society for the Preservation of Maryland Antiquities, a private, membership organization, and eleven years (1969-1980) at the Maryland Historical Trust the State historic preservation agency culminating in the position of Deputy State Historic Preservation Officer where she was responsible for historic sites survey, National Register nominations and Section 106 reviews.

Since 1984 she has served on the Maryland board that certifies the State's nominations to the National Register.

She is a graduate of Virginia Polytechnic Institute and State University (MA, 1970) and Hollins University (BA, 1968).

William Hackett, Senior Manager of Federal Regulatory Compliance, T-Mobile USA, Inc.



William J. Hackett is Senior Manager of Federal Regulatory Compliance for T-Mobile USA, Inc. in the Company's Washington, D.C. office. He is a key member of a team responsible for insuring T-Mobile's compliance with federal regulations, primarily those of the Federal Communications Commission, the Federal Aviation Administration, and the Environmental Protection Agency.

Prior to working for T-Mobile, Mr. Hackett was employed as Director of Regulatory Compliance for Western Wireless Corporation from 1998 to 2006 (Western Wireless merged into Alltel Corporation in August 2005) and as Operations and Paralegal Manager for the Washington, D.C. telecommunications law firm of Gurman, Blask & Freedman, Chartered from 1994 to 1998. Mr. Hackett holds a Bachelor of Arts degree in Telecommunications from Pennsylvania State University.

Jenna Metzник, Director of Regulatory Compliance, American Tower Corporation



Jenna Metznik is Director of Regulatory Compliance at American Tower Corporation. Since 1999, Jenna has been a leader in the company's Compliance Department, and instrumental in the establishment of best practices with numerous federal agencies, state agencies, and local governments. In November, she gained oversight of the FAA/FCC Filing Program and continues to oversee the Environmental Compliance Program.

As Director, Jenna oversees FCC NEPA compliance, CERCLA due diligence, and FAA/FCC filing practices nationwide for a wide range of projects. Specific to FCC NEPA compliance, Jenna has managed the NEPA process on thousands of proposed new tower and non-tower facilities; and she has extensive experience applying the Section 106 regulations, species protection regulations, and wetlands regulations, to wireless infrastructure projects. For tower sites and distributed antenna systems, her team coordinates with outside consultants to complete the requisite database research, field investigation, stakeholder consultation, compliance filing and reporting. In addition, her team provides compliance verification to collocating customers.

Jenna is an active contributor to the Regulatory Committees of PCIA, The DAS Forum, and CTIA. She is an honors graduate of Clark University's Environmental School where she obtained a BA in Environmental Science and Policy, with a focus in Ecology and Corporate Environmental Management.

Greg Whiteaker, Founding Principal, Herman & Whiteaker, LLC



Greg Whiteaker is a founding principal with the telecommunications law firm of Herman & Whiteaker, LLC. He has 25 years of legal and public policy experience.

Greg primarily focuses on regulatory and policy issues relating to the rural wireless and wireline industries, as well as on transactional matters and spectrum auctions. He has extensive experience guiding clients through complex business and regulatory issues. He is a graduate of the University of Arkansas and Duke University School of Law.