

Tab 9



1130 Situs Court, Suite 100
Raleigh, NC 27606

DATE: July 23, 2013
SUBJECT: FCC Compliance Assessment for Proposed AT&T Mobility Site 368-545

AT&T Mobility has been requested to evaluate the radio frequency emissions of our proposed site 368-545. In addition, AT&T Mobility has been requested to address other RF related topics such as transmitter operation and maximum permissible output power levels. The remainder of this report will address all RF related items requested by Chatham County Zoning/Planning for proposed site 368-545.

Transmitter Operation

AT&T Mobility owns the B/C LTE Bands and B/F PCS Band PCS licenses in Chatham County. The transmitters being used on the proposed site are authorized to operate in the 704-716, 734-746 and 1950-1965 Megahertz (MHz) frequency range. The Ericsson Node B base station transmitters AT&T Mobility utilizes have a maximum output level of 60 watts. AT&T Mobility utilizes the GSM, LTE and UMTS digital technology. As a result our transmitters utilize Gaussian Minimum Shift Keying (GMSK), 16-State Quadrature Amplitude (16QAM), 64-State Quadrature Amplitude (64 QAM) and Quadrature Phase Shift Keying (QPSK) modulation. Precision filters limit unwanted and spurious emissions to levels below the FCC specification. The signals being transmitted will not interfere with the operation of commercial radio, cellular radio, television, telephone or other FCC approved communication equipment. For our proposed site 368-545, GSM technology will not be deployed.

Maximum Permissible Output Power

The maximum permissible output power for 1900 Mhz band per sector is 1640 Watts of effective radiated power (ERP) from the antennas in Chatham County. The proposed site 368-545 is only transmitting 506 total watts ERP.

The maximum permissible output power for 700 Mhz band per sector is 1000 Watts of effective radiated power (ERP) from the antennas in Chatham County. The proposed site 368-545 is only transmitting 248 total watts ERP.

RF Exposure (NIER levels)

The FCC states in 47 CFR 1.1310 that the maximum permissible exposure (MPE) level from non-ionizing electromagnetic radiation (NIER) to the general population at cellular and PCS frequencies is 1.0 milliwatt per centimeter squared (mW/cm^2). MPE is a measure of the RF power density at or below which there are no potential harmful effects from the exposure.

Power density calculations are based on guidelines given by the ANSI Standard C95.1-1992 and are based on a worst case scenario. For analysis purposes, worst case conditions were chosen for all output power levels based on the deployment of LTE and UMTS technologies. The site is being deployed initially with 9 transmitters. For analysis purposes, 15 transmitters were used. A summary of the results of the power density calculations for site 368-545 is listed below in Table 1 and Table 2.

Distance From Tower (Feet)	Power Density (mw/cm2)	% FCC Standard
1	0.0000536	0.021450
25	0.0000492	0.019671
50	0.0000275	0.011009
75	0.0000923	0.036924
100	0.0001099	0.043979

Table 1: Power Density Summary for Site 368-545 for 1900 Band

Distance From Tower (Feet)	Power Density (mw/cm2)	% FCC Standard
1	0.0000101	0.0082266
25	0.0000222	0.0180975
50	0.0000350	0.0285463
75	0.0000416	0.0339697
100	0.0000412	0.0336533

Table 2: Power Density Summary for Site 368-545 for 700 Band

As shown in Table 1, the maximum power density will not exceed 0.0001099mW/cm² at ground level in 1900 Band and as shown in Table 2, the maximum power density will not exceed 0.0000412mW/cm² at ground level in 700 Band. Moreover, the average energy expected near ground level is less than 1% of the MPE level. This level does not exceed the MPE limit set by the Federal Communications Commission or the American National Standards Institute.

Based upon the ANSI/FCC standard and the predicted levels of electromagnetic energy emitted by site 368-545, this installation will be of no safety concern to the general public.

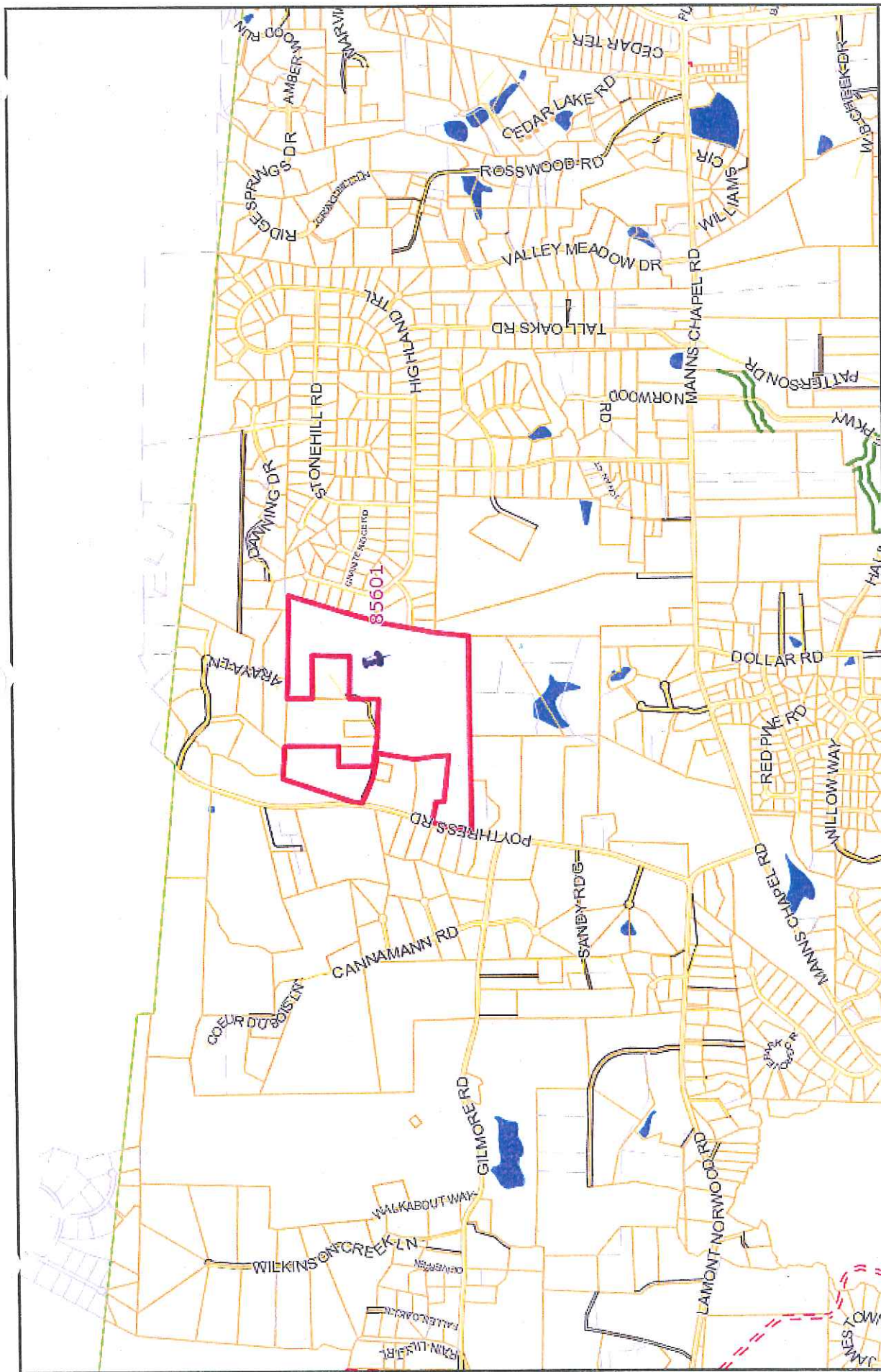
If there are any further questions regarding the information provided I can be reached at (919) 852-2717.

Sincerely



David J. LaCava
Radio Access Network Specialist
AT&T Mobility
Raleigh Market
Tel: 919 852-2717
e-mail: DL2246@att.com

Tab 10



Parcel Number: 85601
 Map Number: 9766-46-9711
 Owner Name: WOMBLE JAMES WALTER ETUX JANE R
 Owner Address: 189 CHESTNUT WAY
 Owner City: CHAPEL HILL
 Owner State: NC
 Owner Zip: 27516
 Tax Year: 2013
 Description: TR 1

Deed Book: 1437
 Deed Page: 0670
 Plat Book: 2009
 Plat Page: 0267
 Deed Acres: 81.682
 Physical Address: POYNTHRESS RD
 Improvement Value: 0
 Land Value: 684600
 Fire District: 107
 Township Code: 2

One Inch = 1600 Feet

CHATHAM COUNTY, NC

Property Map

Disclaimer:
 The data provided on this map are prepared for the inventory of real property found within Chatham County, NC and are compiled from various public records, deeds, and other public records and data. This data is for informational purposes only and should not be substituted for a true title search, property appraisal, survey, or for zoning verification.



Tab 11

STYERS, KEMERAIT & MITCHELL

attorneys+counselors@law

1101 Haynes Street, Suite 101
Raleigh, North Carolina 27604
919.600.6270

StyersKemerait.com

kkemerait@StyersKemerait.com
919.600.6275

July 17, 2013

***Re: Invitation to Attend a Community Meeting Regarding the
Proposed Telecommunications Monopole to be Located
On the Property of James and Jane Womble Located at Poythress Road,
Chapel Hill, NC 27516***

Dear Neighbor:

This letter is to invite you to a community meeting so that I may provide information about an Application that will be filed by American Tower Corporation ("American Tower") and AT&T Mobility ("AT&T") so that American Tower may construct a 199-foot monopole telecommunications facility be located on a 100-foot by 100-foot, leased parcel on a 81-acre tract of land owned by James and Jane Womble at Poythress Road, Chapel Hill, North Carolina. An informal community meeting will be held on August 1, 2013, beginning at 7:30 p.m., at Hargraves Community Center, 216 North Roberson Street, Chapel Hill, North Carolina 27516. I am enclosing with this letter pages from the site plan showing the location of the proposed facility on Mr. and Mrs. Womble's property, along with the elevation drawing.

Modern wireless communications include far more than cellular and digital networks. Today, wireless communications (available through "smart phones") not only provide vital voice communications, but also provide a great number of services, such as advanced messaging, data, real-time information (news, weather, sports, etc.), photographs, video, entertainment, and connections to social media. Not only do wireless services provide these benefits, but they also have proven invaluable in times of trouble by providing access to 911 services.

There is a significant gap in AT&T's wireless telecommunications coverage in the area around Mr. and Mrs. Womble's property. For that reason, American Tower and AT&T have proposed constructing the monopole so that AT&T may locate its antennas on the monopole to improve telecommunications coverage in this area of Chatham County. Other telecommunications carriers will also have the opportunity to locate their antennas on the monopole to provide coverage in the area.

This meeting is required as part of the County zoning process; however County staff will not participate in the meeting. We are planning to submit our official plans to the County Planning Department in the near future. You will receive a notice from the County about this submittal once the application has been made.

M. Gray Styers, Jr.

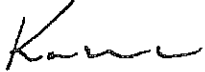
Karen M. Kemerait

Charlotte A. Mitchell

July 17, 2013
Page 2 of 2

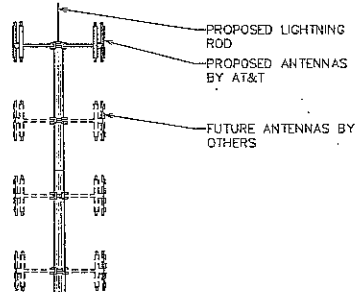
We would appreciate your attendance and input at the community meeting. If you are unable to attend and have questions regarding the plans, please feel free to email me at kkemerait@styerskemerait.com or contact me at my office at telephone number 919/600-6270.

Respectfully,

A handwritten signature in black ink, appearing to read 'Karen', with a stylized flourish at the end.

Karen Kemerait

199'-0"±
T/LIGHTNING ROD
195'-0"±
T/TOWER
AT&T ANTENNAS

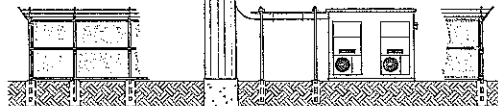


NOTES:

1. TOWER SHALL BE CONSTRUCTED OF GALVANIZED STEEL OR PAINTED PER APPLICABLE STANDARDS OF THE FAA OR OTHER APPLICABLE FEDERAL OR STATE AGENCY.
2. A SINGLE SIGN, 2 FEET SQUARE, IN A VISIBLE LOCATION SHALL BE REQUIRED WITH NAME AND EMERGENCY TELEPHONE NUMBER OF THE TOWER OWNER AND ALL COMPANIES OPERATING ON THE TOWER. NO ADVERTISING SHALL BE ATTACHED TO THE TOWER.

PROPOSED MONOPOLE TOWER

0'-0" (REFERENCE)
T/ CONCRETE



TOWER ELEVATION

SCALE: 1/8" = 1'-0"

0 16 32
SCALE IN FEET

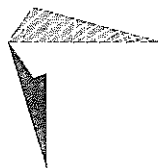
SHEET NUMBER: **C-3**
REVISION: **0**
TWP #: 131501

TOWER
ELEVATION

REV	DATE	ISSUED FOR
0	05-22-13	PRELIMINARY
DRAWN BY: SCB CHECKED BY: GAA		

SEAL
PRELIMINARY
DO NOT USE FOR
CONSTRUCTION

TOWER ENGINEERING PROFESSIONALS
3703 JUNCTION BOULEVARD
RALEIGH, NC 27603-5203
OFFICE: (919) 861-6351
www.tepgroup.net
N.C. LICENSE # C-1194



PLANS PREPARED BY:

AT&T SITE #: 368-545
ATC#: 280373
MEACHAM NC
FOYHRESS ROAD
CHAPEL HILL, NC 27516
(CHATHAM COUNTY)

PROJECT INFORMATION:

AMERICAN TOWER CORPORATION
400 REGENCY FOREST DRIVE
CARY, NC 27511

PLANS PREPARED FOR:

Name	Address	City	State	Zip
Jean Williams	P O Box 429	Carrboro	NC	27510
Gary & Cynthia Cooper Meacham	1141 Poythress Rd	Chapel Hill	NC	27514
Harlan & Vickie Hilton	488 Poythress Rd	Chapel Hill	NC	27514
Keith & Karen Aldridge	107 Mountain View Rd	Chapel Hill	NC	27516
Diane T & Ivonne S Eise Kaczor	105 Mountain View Rd	Chapel Hill	NC	27516
Kathleen W Cole	103 Mountain View Rd	Chapel Hill	NC	27516
Jeanine Saffelle & Francis Rosario Mangieri	105 Granite Ridge Rd	Chapel Hill	NC	27516
Laurie Long Thompson	103 Highland Trl	Chapel Hill	NC	27516
Edward T & Sylvia K Rouse	101 Highland Trail	Chapel Hill	NC	27516
Michael Jay & Janelle Marie Puerner Mullins	100 Highland Tr	Chapel Hill	NC	27516
John & Allison Carter	102 Highland Tr	Chapel Hill	NC	27516
Daniel & Jennifer Gardner	104 Highland Trail	Chapel Hill	NC	27516
Kristy Richards	106 Highland Trail	Chapel Hill	NC	27516
Suzanne R Hill	108 Highland Tr	Chapel Hill	NC	27516
Todd R & Tamara C Meath	200 Highland Trail	Chapel Hill	NC	27516
C Michael & Jacqueline T Stout	202 Highland Trail	Chapel Hill	NC	27516
Roger & Norine Cross	204 Highland Trail	Chapel Hill	NC	27516
Alberta J Atwater	201 Granite Ridge Rd	Chapel Hill	NC	27516
Hamilton & Jennifer E Koerv	203 Highland Tr	Chapel Hill	NC	27516
Jean Williams	P O Box 429	Carrboro	NC	27510
Geraldine & Irvin Nunn	134 Araya Ln	Chapel Hill	NC	27516
Ryan & Shannon M Schulteis	107 Hogan Ridge Ct	Chapel Hill	NC	27516
James & Mary Jane Salm Gaillard	380 Danning Dr	Chapel Hill	NC	27516
Vicki L & John D Bachmann	120 Glenridge Dr	Chapel Hill	NC	27516
Musigny Inc	127 Araya Lane	Chapel Hill	NC	27516
John W & Araya Srichairut Coffey	127 Araya Ln	Chapel Hill	NC	27516
Lynne Vernon & Jonathan Lauterer	122 Araya Lane	Chapel Hill	NC	27516
Christopher K & Janet P Vickers	678 Poythress Rd	Chapel Hill	NC	27516
James Walter & Jane R Womble	189 Chestnut Way	Chapel Hill	NC	27516
Cottages At Stonegate Llc The	105 Fairfield Court	Chapel Hill	NC	27516
Teresa Klein	887 Poythress	Chapel Hill	NC	27516
Michael T & Anne W Taggart	851 Poythress Rd	Chapel Hill	NC	27516
James & Renee Miller	807 Poythress Rd	Chapel Hill	NC	27516
James & Renee Miller	807 Poythress Rd	Chapel Hill	NC	27516
Steven & Cindy Ahlbom	715 Poythress Rd	Chapel Hill	NC	27516
Steven & Cindy Ahlbom	715 Poythress Rd	Chapel Hill	NC	27516
Ray & Sharon Mccoy Womble	84 Chestnut Way	Chapel Hill	NC	27516
Karen & Michael Bruschke	Po Box 632	Frisco	NC	27936
James Walter & Jane R Womble	189 Chestnut Way	Chapel Hill	NC	27516
Lindo M Webster	120 X Campbell Rd	Pittsboro	NC	27312
Kaye Foster & John Mann	6300 Kings Lynn Dr	Oak Island	NC	28465
John Schuyler & Lynn Emmart Davis Herrick	818 Poythress Rd	Chapel Hill	NC	27516
Scott A Martin	602 Poythress Rd	Chapel Hill	NC	27516
Marvin Meacham	2915 Meacham Rd	Chapel Hill	NC	27516
Jean Williams	Box 429	Carrboro	NC	27510
Coleen P. Brewer c/o Jane Dorton	801 Overbrook Drive	Thomasville	NC	27360
James Walter & Lola Womble	189 Chestnut Way	Chapel Hill	NC	27516
Steven & Sharon Ann Mccoy Womble	84 Chestnut Way	Chapel Hill	NC	27516

Tab 12

Community Meeting Report

1. Date, time and location of the Community Meeting

The Community Meeting was held on August 1, 2013 from 7:30 p.m. until 8:30 p.m. at the Hargraves Community Center, 216 North Roberson Street, Chapel Hill, North Carolina 27516.

2. Persons in attendance at the Community Meeting

The following persons appeared at the Community Meeting: Gray Styers, attorney for American Tower Corporation and AT&T Mobility, James Womble, property owner, Jack Herrick, Mike Taggart, John Bachmann, and John Coffy.

3. Summary of issues discussed at the meeting

Gray Styers provided information about American Tower's and AT&T's plans to locate a 199-foot monopole on Mr. Womble's property that consists of approximately 81 acres and is located on Poythress Road in Chapel Hill. The issues that were raised included: the visibility and aesthetics of the tower; information about the generator that will be utilized on the site; any health effects of the antennas; the construction process and schedule for construction of the tower; and dates for the public hearing, hearing before the Planning Board, and hearing before the Board of Commissioners.

Community Meeting Attendance Roster
August 1, 2013

Jack Herrick
818 Poythress Road
Chapel Hill, NC 27516

Mike Taggart
851 Poythress Road
Chapel Hill, NC 27516

John Bachmann
120 Glen Ridge Drive
Chapel Hill, NC 27516

John Coffey
127 Araya Lane
Chapel Hill, NC 27516

Tab 13



CHATHAM COUNTY, NC



Property Map

Disclaimer:
The data provided on this map are prepared for the inventory of real property found within Chatham County, NC and are compiled from recorded plats, deeds, and other public records and data. This data is for informational purposes only and should not be substituted for a true title search, property appraisal, survey, or for zoning verification.

Parcel Number: 85601
Map Number: 9766-46-9711
Owner Name: WOMBLE JAMES WALTER ETUX JANE R
Owner Address: 189 CHESTNUT WAY
Owner City: CHAPEL HILL
Owner State: NC
Owner Zip: 27516
Tax Year: 2013
Description: TR 1

Deed Book: 1437
Deed Page: 0670
Plat Book: 2009
Plat Page: 0267
Deed Acres: 81.682
Physical Address: POYTHRESS RD
Improvement Value: 0
Land Value: 684600
Fire District: 107
Township Code: 2

One Inch = 6400 Feet