TOWER
ENGINEERING
PROFESSIONALS

April 29, 2014

Styers, Kemerait & Mitchell, PLLC
1101 Haynes Street, Suite 101
Raleigh, North Carolina 27604

Attention: Ms. Karen Kemerait

Subject: Balloon Test Letter Report
Proposed 300-ft (315-ft w/ appurtenances) Self-Support
Communications Tower
American Tower Site: Bennett NC
American Tower Site #: 282301
AT&T Site #: 368-979
Bennett, NC (Chatham County)

Dear Ms. Kemerait:

Tower Engineering Professionals, Inc. (TEP) of Raleigh, NC completed a balloon test for a proposed self-support communications tower facility that will be located at 24477 NC Hwy 902, east of a portion of NC Hwy 42, southeast of the Unincorporated Community of Bennett, in Chatham County, NC. The proposed tower facility will be located on a parcel of real estate owned by High Falls Oil Company that is identified as Parcel ID# 8645-13-1971. The balloon flight was conducted for the proposed tower height of 300-ft AGL on the morning of April 17, 2014 in order to assess the potential visual impact that the proposed communications tower may have on the surrounding area of potential effect (APE).

The balloon test was performed on April 17, 2014 from ~10:45AM to 11:30AM. The balloon test photographs were taken from ~11:00AM to 11:30AM. The weather at the time of the balloon flight consisted of temperatures ranging from ~40° to ~50° Fahrenheit. The atmospheric conditions were clear with 6 to 8 mph winds from the north-northeast during the 0.75 hour balloon flight. TEP personnel deployed an approximately 10' long x 4'-1" wide yellow blimp with blue fins at an elevation of 300-ft above ground level (AGL). Based on the minimal amount of displacement of the blimp associated with the above referenced wind speeds at the time of the balloon test photographs, it is the opinion of TEP that the balloon flight is an accurate depiction of the proposed tower elevation AGL. The photographs were taken with a Nikon D3000 SLR Digital Camera set at 35mm, in an attempt to most accurately mimic the view of the human eye.

Balloon Flight

The balloon flight was conducted at the proposed tower centerline, approximately 370-ft south of a portion of NC Hwy 902. According to the preliminary construction drawings completed by TEP for American Tower dated March 6, 2014 the proposed tower will be located within an approximately 15 year old planted pine stand at:

3703 Junction Blvd. Raleigh, NC 27603-5263 O) (919) 661-6351 F) (919) 661-6350
gswearingen@tepgroup.net

TOWER ENGINEERING PROFESSIONALS

Latitude: N 35° 32' 45.653" (NAD 83)
Longitude: W 79° 32' 03.782" (NAD 83)
Elevation: ~464.9-ft AMSL

Balloon Flight	*Approximate Location:*	*Distance from proposed structure:*
Photo #1	Jerry Frye Road and Bernard Purvis Road (N35° 32' 44.62", W79° 32' 33.86")	~0.47 miles
Photo #2	NC Hwy 22/42 and Bernard Purvis Road (N35° 33' 11.80", W79° 32' 35.31")	~0.70 miles
Photo #3	297 State Road 1158 (Carthage Rd) (N35° 33' 45.10", W79° 32' 15.35")	~1.15 miles
Photo #4	NC Hwy 902 and NC Hwy 22/42 (N35° 32' 48.97", W79° 32' 14.60")	~0.18 miles
Photo #5	2400 NC Hwy 22/42 (N35° 32' 28.52", W79° 31' 55.60")	~0.35 miles
Photo #6	22121 NC Hwy 902 (N35° 32' 55.27", W79° 31' 33.24")	~0.51 miles

TEP personnel obtained numerous photographs from each of the aforementioned locations in an attempt to provide an accurate depiction of the view of the proposed tower facility from the surrounding area. Photographs were taken for the balloon flight and their corresponding locations are depicted on the additional photo location map provided. Ninety-two (92) photographs were obtained from multiple locations surrounding the proposed tower site; of the ninety-two (92) photographs, six (6) were selected for inclusion in this report. Additionally, four (4) photographs were selected and photo simulations were rendered depicting the proposed 300-ft (315-ft with appurtenances) self-support tower from the desired locations.

Please don't hesitate to contact me if there are any questions or concerns with regards to the balloon test for the proposed undertaking.

Regards,

George T. Swearingen, III
Division Manager - Environmental

3703 Junction Blvd. Raleigh, NC 27603-5263 O) (919) 661-6351 F) (919) 661-6350
gswearingen@tepgroup.net

Bennett NC (ATC#-282301) (AT&T#-368-979)

Balloon Test Results		
Photo Location	**Location**	**Result**
1	Jerry Frye Road and Bernard Purvis Road (N35° 32′ 44.62″, W79° 32′ 33.86″)	Visible
2	NC Hwy 22/42 and Bernard Purvis Road (N35° 33′ 11.80″, W79° 32′ 35.31″)	Visible
3	297 State Road 1158 (Carthage Rd) (N35° 33′ 45.10″, W79° 32′ 15.35″)	Not Visible
4	NC Hwy 902 and NC Hwy 22/42 (N35° 32′ 48.97″, W79° 32′ 14.60″)	Visible
5	2400 NC Hwy 22/42 (N35° 32′ 28.52″, W79° 31′ 55.60″)	Visible
6	22121 NC Hwy 902 (N35° 32′ 55.27″, W79° 31′ 33.24″)	Visible

Google earth

miles 1
km 2

PHOTO LOCATION 1

CURRENT VIEW WITH BALLOON

AMERICAN TOWER

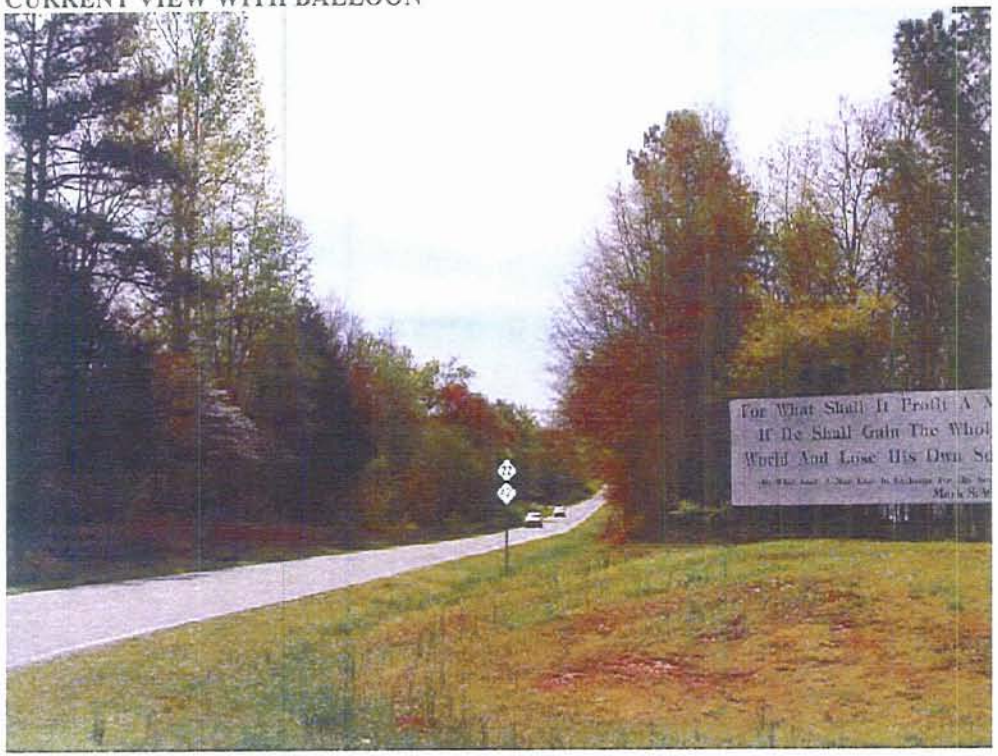
SITE NAME: BENNET NC
AT&T SITE#: 368-979 - ATC SITE #: 282301
SITE ADDRESS:
24477 NC HWY 902 N35° 32' 45.653", W79° 32' 03.782"
VIEW FROM:
PHOTO LOCATION 1 (SEE MAP BELOW)
~N35° 32' 44.62", W79° 32' 33.86"

PHOTO RENDERING

PHOTO RENDERING PROVIDED BY TOWER ENGINEERING PROFESSIONALS, INC.

PHOTO LOCATION 2

CURRENT VIEW WITH BALLOON



AMERICAN TOWER

SITE NAME: BENNET NC
AT&T SITE#: 368-979 - ATC SITE #: 282301
SITE ADDRESS:
24477 NC HWY 902 N35° 32' 45.653", W79° 32' 03.782"
VIEW FROM:
PHOTO LOCATION 2 (SEE MAP BELOW)
~N35° 33' 11.80", W79° 32' 35.31"

PHOTO RENDERING

PHOTO RENDERING PROVIDED BY TOWER ENGINEERING PROFESSIONALS, INC.

22
42
For What Shall It Pro
If He Shall Gain Th
World And Lose His
Or What Shall A Man Give In Exchang

22
42
For What Shall It Profit A
If He Shall Gain The Whol
World And Lose His Own So
Or What Shall A Man Give In Exchange For His Sou
Mark 8:36

PHOTO LOCATION 3

CURRENT VIEW WITH BALLOON

BALLOON NOT VISIBLE

AMERICAN TOWER

SITE NAME: BENNET NC
AT&T SITE#: 368-979 - ATC SITE #: 282301
SITE ADDRESS:
24477 NC HWY 902 N35° 32' 45.653", W79° 32' 03.782"
VIEW FROM:
PHOTO LOCATION 3 (SEE MAP BELOW)
~N35° 33' 45.10", W79° 32' 15.35"

PHOTO PROVIDED BY TOWER ENGINEERING PROFESSIONALS, INC.

PHOTO LOCATION 4

CURRENT VIEW WITH BALLOON

BALLOON VISIBLE

AMERICAN TOWER

SITE NAME: BENNET NC
AT&T SITE#: 368-979 - ATC SITE #: 282301
SITE ADDRESS:
24477 NC HWY 902 N35° 32' 45.653", W79° 32' 03.782"
VIEW FROM:
PHOTO LOCATION 4 (SEE MAP BELOW)
~N35° 32' 48.97", W79° 32' 14.60"

PHOTO PROVIDED BY TOWER ENGINEERING PROFESSIONALS, INC.

STOP

PHOTO LOCATION 5

CURRENT VIEW WITH BALLOON

AMERICAN TOWER

SITE NAME: BENNET NC
AT&T SITE#: 368-979 - ATC SITE #: 282301
SITE ADDRESS:
24477 NC HWY 902 N35° 32' 45.653", W79° 32' 03.782"
VIEW FROM:
PHOTO LOCATION 5 (SEE MAP BELOW)
~N35° 32' 28.52", W79° 31' 55.60"

PHOTO RENDERING

PHOTO RENDERING PROVIDED BY TOWER ENGINEERING PROFESSIONALS, INC.

PHOTO LOCATION 6

CURRENT VIEW WITH BALLOON

AMERICAN TOWER

SITE NAME: BENNET NC
AT&T SITE#: 368-979 - ATC SITE #: 282301
SITE ADDRESS:
24477 NC HWY 902 N35° 32' 45.653", W79° 32' 03.782"
VIEW FROM:
PHOTO LOCATION 6 (SEE MAP BELOW)
~N35° 32' 55.27", W79° 31' 33.24"

PHOTO RENDERING

PHOTO RENDERING PROVIDED BY TOWER ENGINEERING PROFESSIONALS, INC.