

March 18, 2010

**Town of Acton  
472 Main Street  
Acton, MA 01720**

Attention: **Planning Board**

Subject: Proposed 170-ft Monopole Communications Tower  
SBA Towers LLC Site: **ACTON 2 – MA11845-S**  
5 Craig Road  
Acton, NC 01720  
(Middlesex County)

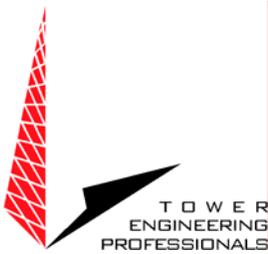
To Whom It May Concern,

Tower Engineering Professionals, Inc. (TEP) of Raleigh, NC completed a balloon test on the morning of 1-23-10 for the proposed 170-ft Monopole Communications tower facility located on parcel of real-estate identified as PIN H4-45, located in the Town of Acton, in Middlesex County, MA. In response to Broadcast Signal Lab's "Follow-on Comments on the SBA Application for a Special Permit to Install a Wireless Facility and Tower at 5 Craig Road, Acton, Massachusetts" letter dated 3-12-10 prepared by David Maxson, TEP offers the following response.

**Pg 3, paragraph 3**

**Was the height of the balloon actually measured?** Yes, the tether was measured onsite to a length of 163-ft (7-ft less than the overall proposed tower height). The blimp used is 5.2-ft in diameter and the four pronged tether that attaches the blimp to the tether line is approximately 18-20 inches in length thus placing the overall height of the blimp @~170-ft AGL. In addition, numerous photographs were taken from each location and compared to each other on my desktop and the photograph of the blimp taken at the highest elevation (apex) was always used as an additional attempt to provide an accurate depiction of the maximum view shed impact of the proposed tower.

**If not, how was the scope (length) of the line adjusted to compensate for windage?** The blimp was utilized for this test because the design of the blimp vs. a spherical balloon allows for the blimp to turn into the wind versus being blown off course during time of high winds during the balloon test. As stated in the letter with the balloon test report "The blimp's flight ranged from ~90° to 85° above the land surface; therefore an 0°- 5° variation from perpendicular due to the 5-10 knots winds from the northwest". This amount of variation has always been an acceptable variation for something as fluid as a balloon flight.



**Pg3, paragraph 4**

Olympus Digital Camera C740 UltraZoom Camera Specs attached. The wider angle photographs taken were taken at the extent of the camera capabilities (not zoomed at all). The photo simulation “D” provided in their report is completely subjective and arbitrary. How do we or anyone else for that matter, know the dimensions of the “real” towers that were simulated in his photograph as comparisons to what is being proposed? No matter the resolution, focal length, etc., the photographs of the blimp I provided accurately depict the elevation of the proposed structure relative to its surroundings. Please see the attached specifications for the camera used to complete the balloon test.

**Pg3, paragraph 5**

**“Nevertheless, a simulated tower set to the balloon height may not be the correct width on the selected photograph.”** The length and width of the balloon are known and were clearly stated in the letter report provided with the balloon test. The rendering specialist knows the length and width of the blimp used and scales the height and width of the structure accordingly. There were no focal length requirements stated in section 3.7.10 of 3.7.11 of the Wireless Communications Facility Special Permit Rules & Regulations that were provided to TEP as the Scope of Services for the undertaking. In addition, as I stated originally and in the subsequent letter last week the balloon test that I personally conducted on January 23, 2010 accurately depicts the proposed tower’s view shed based on the information provided to me at the time the balloon test was conducted.

**Pg5, photograph “B & C”**

Photographs B & C appear to be taken at slightly different locations based on the shadows on the right side of the photo and the vegetation change on both sides of the road. This may be the result of difference in focal length but it may also be a result of the photographs being taken from slightly different locations.

I personally completed the balloon test on 1-23-10 and continue to believe that the balloon test results are accurate.

Regards,

George T. Swearingen, III  
Division Manager - Environmental

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## Camedia C-74

Review   User reviews

Manufacturer:

Part Number:

### General

Product Type	Digital camera
Point-and-shoot highlights	Having video capture capability adds convenience for the user.
Width	4.3 in
Depth	2.7 in
Height	2.6 in
Weight	<a href="#">11.2 oz</a>

### Main Features

Resolution	3.2 megapixels
Color Support	Color
Optical Sensor Type	<a href="#">CCD</a>

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• <b>Total Pixels</b>	3,340,000 pixels
• <b>Effective Sensor Resolution</b>	<a href="#">3,180,000 pixels</a>
• <b>Interpolated Image Resolution</b>	7,680,000 pixels
• <b>Optical Sensor Size</b>	1/2.5 in
• <b>Light Sensitivity</b>	ISO 100 , ISO 200 , ISO 400
• <b>Digital Zoom</b>	3 x
• <b>Shooting Modes</b>	Panorama mode , Frame movie mode
• <b>Shooting Programs</b>	Landscape , Night mode , Sports mode , Portrait mode , Self-portrait , Landscape-portrait
• <b>Special Effects</b>	Sepia , Blackboard , Whiteboard , Black & White
• <b>Max Shutter Speed</b>	1/1000 sec
• <b>Min Shutter Speed</b>	16 sec
• <b>Exposure Metering</b>	Spot , Matrix , Multi-spot
• <b>Exposure Modes</b>	<a href="#">Manual</a> , <a href="#">Program</a> , <a href="#">Automatic</a> , <a href="#">Shutter-priority</a> , <a href="#">Aperture-priority</a>
• <b>Exposure Compensation</b>	±2 EV range, in 1/3 EV steps
• <b>Auto Exposure Bracketing</b>	5 steps in 1/3 EV step
• <b>White Balance</b>	Custom , Presets , Automatic
• <b>White Balance Presets</b>	Daylight , Overcast , Tungsten light , Fluorescent light (daylight) , Fluorescent light (cool white) , Fluorescent light (warm white)
• <b>Digital Video Format</b>	QuickTime
• <b>Still Image Format</b>	<a href="#">JPEG</a> , <a href="#">TIFF</a>
• <b>Continuous Shooting Speed</b>	10 frames per second
• <b>Remote Control</b>	Standard remote control
• <b>TV Tuner</b>	None

## Memory / Storage

• <b>Flash Memory</b>	16 MB Flash - xD-Picture Card
• <b>Floppy Drive</b>	None
• <b>Digital Storage Media</b>	- None
• <b>Image Storage</b>	Hi JPEG 3200 x 2400 : 6 - With 16MB card , Normal JPEG 3200 x 2400 : 16 - With 16MB card , TIFF 2048 x 1536 : 3 - With 16MB card , Hi JPEG 2048 x 1536 : 14 - With 16MB card , Normal JPEG 2048 x 1536 : 40 - With 16MB card ,

TIFF 2048 x 1360 : 3 - With 16MB card , Hi JPEG 2048 x 1360 : 14 - With 16MB card , Normal JPEG 2048 x 1360 : 40 - With 16MB card , TIFF 1600 x 1200 : 5 - With 16MB card , Hi JPEG 1600 x 1200 : 23 dB - With 16MB card , Normal JPEG 1600 x 1200 : 64 - With 16MB card , TIFF 1280 x 960 : 8 - With 16MB card , Hi JPEG 1280 x 960 : 36 - With 16MB card , Normal JPEG 1280 x 960 : 99 - With 16MB card , TIFF 1024 x 768 : 13 - With 16MB card , Hi JPEG 1024 x 768 : 55 - With 16MB card , Normal JPEG 1024 x 768 : 153 - With 16MB card , TIFF 640 x 480 : 33 - With 16MB card , Hi JPEG 640 x 480 : 132 - With 16MB card , Normal JPEG 640 x 480 : 331 - With 16MB card

## Camera Flash

Camera Flash	<a href="#">Pop-up flash</a>
Flash Modes	<a href="#">Auto mode</a> , <a href="#">Fill-in mode</a> , <a href="#">Slow synchro</a> , <a href="#">BacklightFlash mode</a> , <a href="#">OFF mode</a> , <a href="#">Red-eye reduction</a>
Red Eye Reduction	Yes
Effective Flash Range	2 ft - 16.7 ft

## Lens System

Type	Zoom lens - 6.3 mm - 63 mm - F/2.8-3.7
Focal Length	6.3 mm - 63 mm
Focal Length Equivalent to 35mm Camera	38 - 380 mm
Focus Adjustment	<a href="#">Manual</a> , <a href="#">Automatic</a>
Auto Focus	TTL contrast detection
Min Focus Range	23.6 in
Macro Focus Range	7-60cm
Lens Aperture	F/2.8-3.7
Optical Zoom	<a href="#">10 x</a>
Zoom Adjustment	Motorized drive
Lens Construction	7 group(s) / 11 element(s)
Features	ED glass , Aspherical lens

## Additional Features

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• <b>Self Timer</b>	Yes
• <b>Self Timer Delay</b>	12 sec
• <b>Flash Terminal</b>	None
• <b>Additional Features</b>	DPOF support , Date/time stamp , Histogram display , PRINT Image Matching , Digital noise reduction , RGB primary color filter
•	

## Viewfinder

• <b>Viewfinder Type</b>	Electronic
• <b>Viewfinder Color Support</b>	Color
• <b>Viewfinder Diagonal Size</b>	0.44 in
• <b>Viewfinder Resolution</b>	180,000 pixels
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## Display

• <b>Type</b>	LCD display - TFT active matrix - 1.5 in - Color
• <b>Display Form Factor</b>	Built-in
• <b>Display Format</b>	110,000 pixels
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## Digital Player (Recorder)

• <b>Type</b>	None
•	

## Microphone

• <b>Type</b>	None
•	

## Connections

• <b>Connector Type</b>	1 x USB , 1 x Composite video output , 1 x DC power input
• <b>Expansion Slot(s)</b>	1 x xD-Picture Card
•	

## Software

• <b>Software</b>	Drivers & Utilities , Olympus Camedia Master
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## System Requirements for PC Connection

**Operating System Support** MS Windows 98 , MS Windows ME , MS Windows XP , MS Windows 2000 , MS Windows 98 SE , Apple Mac OS 8.6 or later

### Miscellaneous

- **Carrying Case** None

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- **Included Accessories** Lens cap , Wrist strap

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- **Cables Included** 1 x USB cable , 1 x Video cable

### Power

- **Power Device** None

### Battery

- **Supported Battery** CR-V3

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- **Supported Battery** 2 x CR-V3 Lithium battery ( Included )

### Manufacturer Warranty

- **Service & Support** 1 year warranty

### Environmental Parameters

- **Min Operating Temperature** 32 °F

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- **Max Operating Temperature** 104 °F

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### C-740 Ultra Zoom



Technical Specs

Aperture

CCD Imager

Lens

Seamless Digital Zoom

Maximum Aperture f2.8/f3.7 – f8

Shutter Speeds 1/1000 sec. – 16 sec.