STATE OF CONNECTICUT CONNECTICUT SITING COUNCIL

In Re:

APPLICATION OF NORTH ATLANTIC TOWERS, LLC and NEW CINGULAR WIRELESS PCS, LLC (AT&T) FOR A CERTIFICATE OF ENVIRONMENTAL COMPATIBILITY AND PUBLIC NEED FOR THE CONSTRUCTION, MAINTENANCE AND OPERATION OF A TELECOMMUNICATIONS TOWER FACILITY AT ROUTE 198 IN THE TOWN OF WOODSTOCK

DOCKET NO. 423

December 22, 2011

APPLICANTS NORTH ATLANTIC TOWERS, LLC and NEW CINGULAR WIRELESS PCS, LLC (AT&T) SUPPLEMENTAL INFORMATION

Applicants North Atlantic Towers, LLC and New Cingular Wireless PCS, LLC (AT&T) respectfully submit this supplemental information including a "leaf-off" Visual Assessment of the proposed Facility and an affidavit regarding the Town noticed balloon float that took place on December 2, 2011.

CERTIFICATE OF SERVICE

I hereby certify that on this day, a copy of the foregoing was sent by electronic mail and overnight mail to the Connecticut Siting Council.

Lucia Chiocchio

Dated: December 22, 2011

cc: Allan D. Walker, First Selectman, Town of Woodstock

Jeffrey A. Gordon, M.D., Chairman Telecommunications Task Force

John Stevens, North Atlantic Towers, LLC

Michele Briggs, AT&T

John Favreau, Infinigy Engineering Mark Kiburz, Infinigy Engineering Anthony Wells, C Squared System John Markus-Pinard, Centerline

STATE OF CONNECTICUT CONNECTICUT SITING COUNCIL

In Re:

APPLICATION OF NORTH ATLANTIC TOWERS, LLC and NEW CINGULAR WIRELESS PCS, LLC (AT&T) FOR A CERTIFICATE OF ENVIRONMENTAL COMPATIBILITY AND PUBLIC NEED FOR THE CONSTRUCTION, MAINTENANCE AND OPERATION OF A TELECOMMUNICATIONS TOWER FACILITY AT ROUTE 198 IN THE TOWN OF WOODSTOCK

DOCKET NO. 423

December 5, 2011

APPLICANTS
NORTH ATLANTIC TOWERS, LLC and NEW CINGULAR WIRELESS PCS, LLC ("AT&T")

AFFIDAVIT REGARDING BALLOON FLOAT

I, **Joseph King**, do hereby declare and state:

- 1. I am over the age of 18 years and understand the obligation of making a statement under oath.
- 2. I am a Senior Environmental Scientist with Infinigy Engineering PLLC.
- 3. On Friday, December 2, 2011, from approximately 8:45 a.m. until 4 p.m., I supervised a balloon float at the site of the proposed telecommunication facility at Route 198, Woodstock, Connecticut.
- 4. The height at which the 3-foot diameter balloon was flown was 150 feet, with the tether anchored to the ground at a location approximately 20 feet north of the proposed site of the telecommunication facility. The balloon could not be floated directly over the proposed tower location due to dense tree canopy.
- 5. Weather conditions during the balloon float included temperatures of approximately 40-50 degrees Fahrenheit, generally sunny skies, and light winds.
- 6. During the time of the balloon float, I did not have to replace the balloon.
- 7. Other than time for a drive-by reconnaissance along nearby streets to observe the balloon, I was personally at the site to supervise the balloon float. Another Infinigy representative, Mark Kiburz, was stationed at the site for the entire duration of the float to observe and monitor the balloon and document deflection due to wind.

8. During my field observation, I performed a drive-by reconnaissance within the 2-mile study area along Route 171, Route 198, Shaw Road, Barber Road, Marcy Road, Sherman Road, Smith Road, Camp Road, Bull Hill Road, Phelps Road, Pulpit Rock Road, Center Cemetery Road, Quarry Road and Bradford Corner Road. I also evaluated visibility of the balloon from the Stoggy Hollow General Store & Restaurant (490 Route 198) and the Chamberlain Mill site, located at the intersection of Old Turnpike Road and Dewing School Road. This effort was carried out to confirm and supplement Infinigy Engineering's Visual Resource Evaluation Analysis.

ATTEST:

Printed Name:

Subscribed and sworn to before me this

day of December, 2011.

Notary/Commissioner of the Superior Court

LISA D. ISABELLA Notary Public, State of New York No. 01IS6198265 Qualified in Schenectady County Commission Expires Dec. 15, 2012



New York Office 11 Herbert Drive Latham, NY 12110 Phone: (518) 690-0790 Fax: (518) 690-0793 www.infinigy.com

December 20, 2011

Mr. Dan Shriver North Atlantic Towers 1001 3rd Avenue West, Suite 420 Bradenton, Florida 34205

RE: Leaf-Off Balloon Float and Field Reconnaissance Survey NAT Woodstock / CT1182 Route 198, Woodstock, CT Infinigy Project No. 226-064

Dear Mr. Shriver:

Infinigy Engineering PLLC (Infinigy) has prepared this letter to summarize the activities and findings associated with the recent leaf-off balloon float conducted in connection with the proposed North Atlantic Towers (NAT) wireless telecommunication tower and facility to be located at the abovereferenced property in Woodstock, Windham County, Connecticut (Attachment 1 – Site Location Map). An initial balloon float was conducted in October 2010 in order to evaluate visibility of the proposed tower from surrounding areas. A supplemental balloon float was conducted by *Infinigy* on August 23, 2011 (during leaf-on conditions) to address comments raised during the municipal consultation with the Town. The Visual Resource Evaluation (VRE) report summarizing that effort was submitted on October 5, 2011 and was subsequently submitted as part of the Applicants' Application to the Connecticut Siting Council. An additional balloon float performed during leaf-off conditions was conducted in order to gather additional information regarding potential seasonal variations (leaf-on versus leaf-off) in visibility of the proposed facility. Written notification of this balloon float, originally scheduled for November 29, 2011, was forwarded to representatives of the Town of Woodstock on November 16, 2011. Poor weather conditions forecasted for November 29, 2011 prompted a postponement of the balloon float to December 2, 2011. Written notification of the postponement was forwarded to the Town of Woodstock on November 28, 2011.

Field Procedures

On December 2, 2011, *Infinigy* floated a 3-foot diameter, red-colored, helium-filled balloon on a single tether at a height of 150 feet above ground level at the proposed tower location. Once the balloon was at the desired height, the tether was anchored to the ground. During the course of the balloon float, an *Infinigy* representative remained at the project site to confirm that the balloon remained in the air and to monitor and document its position, including periods of significant deflection due to wind. A second *Infinigy* representative traveled to the same locations previously visited during the August 2011 balloon float, including publicly accessible roads within and beyond the previously established 2-mile radius study area. The objective of this float was to obtain photographs and to evaluate potential seasonal variations in visibility of the balloon (representing the proposed tower). Specifically, the entire length of each of the following roads was traveled in both directions: *Shaw Road; Barber Road; Marcy Road; Sherman Road; Smith Road; Camp Road; Bull Hill Road; Phelps Road; Pulpit Rock Road; Center Cemetery Road; Quarry Road; and Bradford Corner Road. Route 171 and Route 198 were also*

traveled in both directions within the 2-mile study area. In addition, visibility was evaluated from the following specific properties: *Stoggy Hollow General Store & Restaurant*, located at 490 Route 198; and the *Chamberlain Mill* site, located at the intersection of Old Turnpike Road and Dewing School Road.

The balloon was in the air from approximately 8:00am until approximately 4:00pm. Throughout the duration of the balloon float, the skies were clear and the winds were light, ranging from 0 to approximately 5 miles per hour, generally from the southwest, with occasional stronger gusts up to 15 miles per hour during the mid-day hours. Photographs were taken from selected locations within the study area in the direction of the balloon at focal lengths generally ranging from 50mm to 60mm (to best represent views as seen with the unaided human eye).

Locations from where photographs were obtained are shown on the Photo Location Maps in Attachment 3. Corresponding photographs are included in Attachment 4. Photosimulations of the proposed monopole style tower at a height of 150 feet were produced using the photographs from locations where the balloon was visible, and are included in Attachment 5.

Findings

Local Roads

Based on field reconnaissance conducted during the leaf-off balloon float on December 2, 2011, the balloon was not visible from the following roads which were specifically identified during the municipal consultation: *Marcy Road; Sherman Road; Smith Road; Camp Road; Bull Hill Road; Phelps Road; Pulpit Rock Road; Center Cemetery Road; Quarry Road;* and *Bradford Corner Road.* These same areas were travelled during the August 2011 balloon float. No significant increase in visibility was observed during the leaf-off float based on topography and/or the dense tree cover along these roads. Visibility from Barber Road and the "Shaw Road Triangle" (Shaw Road, Route 171 and Route 198) is discussed in later sections of this report.

Visibility was also evaluated during the leaf-off float in the vicinity of Witches Woods Lake and Upper Bungee Lake, to the north-northeast of the proposed tower location. *Infinigy* identified an approximately 50-foot section along Crooked Trail Extension where the proposed tower is expected to be partially visible year-round (see Field-Verified Visibility Map 2 in Attachment 3). Visibility of the proposed tower from this location, which is approximately 1.1 miles from the facility, is expected to be limited to the upper portion of the tower and only while traveling south (Attachment 4, Photo Location PH-19). A photosimulation of the proposed tower was produced using the photograph from this location (Attachment 5, Photo 19). Additional areas of leaf-off visibility were identified on Crooked Trail Extension to the west of Witches Woods Lake (Photo Location PH-25, 0.77 miles from the proposed tower location) and on Indian Spring Road to the east of Witches Woods Lake (Photo Locations PH-26 and PH-27, approximately 0.91 miles and 0.86 miles, respectively, from the proposed tower location) during the December 2011 balloon float. Sporadic visibility from Indian Spring Road will be mainly limited to leaf-off conditions due to the dense tree coverage to the west of the road obstructing views of the proposed tower.

Witches Woods Lake/Upper Bungee Lake

Visibility was evaluated from the boat launch located at the northern end of Witches Woods Lake during both the leaf-on (August 2011) and leaf-off (December 2011) floats. There will be little to no seasonal variation in visibility from this location as the proposed tower will extend 10-20 feet above the existing tree line. The same conclusion can be made for the lower portion of Upper Bungee Lake as evidenced by visibility from the small peninsula on the southwestern side of the lake (Photo Location PH-23, approximately 1.26 miles from the proposed tower location).

Chamberlain Mill Site

Based on field reconnaissance conducted during the December 2011 leaf-off balloon float, the balloon was not visible from the Chamberlain Mill site or in the immediate vicinity of the Chamberlain Mill site (Attachment 4, Photo Locations PH-21 and PH-22). The proposed tower is not expected to be visible from the Chamberlain Mill site due to the presence of densely wooded land to the south of the site, and topographic characteristics between the site and the proposed tower location.

Stoggy Hollow Restaurant & General Store

Based on field reconnaissance conducted during the December 2011 leaf-off balloon float, the balloon was not visible from the area in front of the Stoggy Hollow Restaurant & General Store, including the parking lot and the deck attached to the southern portion of the building. The proposed tower is not expected to be visible from these portions of the Stoggy Hollow Restaurant & General Store property during leaf-off conditions due to the presence of several tall trees, including evergreens, immediately south of the property.

Barber Road

Visibility of the proposed tower from Barber Road during spring, summer and fall leaf-on conditions was evaluated during the August 2011 float. Views from Barber Road were limited to locations along the westernmost portion of Barber Road, along an approximately 550-foot section of the road, extending southeastward from Route 171 (see Field-Verified Visibility Maps in Attachment 3). Unobstructed, year-round views of the upper portion of the proposed tower are limited to portions of the properties located at 4 Barber Road (Attachment 4, Photo Location PH-8, approximately 0.52 miles from the proposed tower location) and 15 Barber Road (Attachment 4, Photo Locations PH-9 and PH-11, approximately 0.56 miles and 0.58 miles, respectively, from the proposed tower location). Partial obstructed visibility of the proposed tower will increase minimally during winter leaf-off conditions. Photographs were obtained from locations along the road, near driveway entrances to #22, #24 and #30 Barber Road (Attachment 4, Photo Locations PH-10 and PH-12, approximately 0.58 miles and 0.59 miles, respectively, from the proposed tower location), and an additional location approximately 110 feet southeast of the driveway entrance to #30 Barber Road (Attachment 4. Photo Location PH-13). The balloon was not visible from Photo Locations PH-10 and PH-13. The balloon was barely visible from Photo Location PH-12 through the trees along the southwest side of the road during the December 2011 float (Attachment 5, Photo 12).

Partial year-round views of the uppermost 10 to 20 feet of the proposed tower are expected from the northwestern portion of the #3 Barber Road property (along Route 171); however, the view is largely obstructed by existing trees and overhead utility lines along the west side of Route 171 (Attachment 4, Photo Location PH-1, approximately 0.51 miles from the proposed tower location). A photosimulation of the proposed tower was produced using the photograph from this location (Attachment 5, Photo 1).

Year-round visibility of the uppermost 10 to 20 feet of the proposed tower is expected from the intersection of Barber Road and Route 171; however, the view is obstructed by existing overhead utility lines (Attachment 4, Photo Location PH-14).

Year-round visibility of the uppermost 30 to 40 feet of the proposed tower is expected from the northwestern portion of the property at #4 Barber Road (along Route 171); however, the view is currently compromised by the presence of utility poles and overhead lines along the west side of Route 171 (Attachment 4, Photo Location PH-8).

Shaw Road Triangle (Shaw Road, Route 171 and Route 198)

Based on field reconnaissance conducted during the December 2011 balloon float, visibility of the proposed tower in the area of the "Shaw Road Triangle" will be extended during winter, leaf-off conditions. Leaf-on visibility will be limited to an approximately 400-foot section of Shaw Road, from Route 171 westward to the driveway entrance for the property at #15 Shaw Road, and an approximately 320-foot section of Route 171, from Shaw Road southwestward to the area adjacent to the property at #3 Barber Road. These views will be extended to the west towards Route 198 in front of the residence located at #15 Shaw Road (Attachment 4, Photo Location PH-6, approximately 0.48 miles from the proposed tower location). The proposed tower is not likely to be a prominent feature in the landscape due to the obstructing trees, including evergreens, in the foreground.

During the August 2011 float, it was concluded that unobstructed, year-round views of the upper portion of the proposed tower are limited to portions of the property located at #3 Shaw Road (Attachment 4, Photo Locations PH-3, approximately 0.53 miles from the proposed tower location), the intersection of Shaw Road and Route 171 (Attachment 4, Photo Location PH-4, approximately 0.55 miles from the proposed tower location), and locations along Shaw Road extending only as far as the driveway for #15 Shaw Road (Attachment 4, Photo Locations PH-5 and PH-2, approximately 0.51miles and 0.49 miles, respectively, from the proposed tower location). These findings were confirmed during the December 2011 leaf-off float. As shown in these photographs, the view is currently compromised by the existing utility poles and overhead lines along the south side of Shaw Road. No other residences along Shaw Road are expected to have year-round views of the proposed tower.

Year-round visibility of the upper portion of the proposed tower is expected from the northwestern portion of the property located at #1651 Route 171 (Attachment 4, Photo Location PH-7, approximately 0.54 miles from the proposed tower location); however, as shown in the photograph from this location, the view is currently compromised by the existing overhead utility lines along the west side of Route 171. The only other properties located along the Route 171 portion of the "Shaw Road Triangle" that are expected to have views of the proposed tower are the properties immediately north and south of Barber Road (#4 Barber Road and #3 Barber Road, respectively), as discussed in the previous section of this report.

Based on field reconnaissance conducted during the supplemental balloon float, the proposed tower is not expected to be visible during leaf-on or leaf-off conditions from the Route 198 portion of the "Shaw Road Triangle" with the exception of one short section (Attachment 4, Photo Location PH-15, approximately 0.44 miles from the proposed tower). The proposed tower will be visible for a very brief period to the west when travelling on Route 198 during leaf-off conditions (Attachment 5, Photo 15). Photographs from the vicinity of the intersection of Route 198 and Shaw Road (Attachment 4, Photo Locations PH-16 and PH-17) show that there will be no visibility of the proposed tower from this area.

Limited obstructed views of the proposed tower are expected during leaf-off conditions in a short section of road approximately 0.16 miles south of the Route 171/Route 198 split (Attachment 4, Photo Location PH-28, approximately 0.38 miles from the proposed tower location). A photosimulation from this area was generated (Attachment 5, Photo 28) which shows that trees immediately adjacent to Route 171/Route 198 obstruct the view during leaf-off conditions and will likely completely block views of the proposed tower during leaf-on conditions.

Evaluation of Tower Visibility at a Height of 110'

An evaluation of visibility of a 110-foot tower was conducted as part of the August 2011supplemental visual assessment. Photosimulations generated from photographs obtained from several locations in the area of the "Shaw Road Triangle" showed that by reducing the proposed tower height to 110 feet, visibility of the proposed tower would be greatly reduced. The top of a tower at that height would be at or below the elevation of the existing tree line as viewed from the Shaw Road Triangle area. Additionally, at a height of 110 feet, the proposed tower would be at or below the elevation of the existing tree line as viewed from Witches Woods Lake.

Based on the above-referenced photosimulations, at a height of 110 feet, the top of the proposed tower would be at, slightly above, or in some cases below the existing tree line, as viewed from surrounding areas, therefore significantly reducing the visibility of the tower from these areas.

Summary

Anticipated year-round views of the upper portion of the proposed 150-foot tower from the area of the "Shaw Road Triangle" and Barber Road are limited to a total of five residences: #3 Barber Road (0.51 miles from proposed tower location); #4 Barber Road (0.52 miles from proposed tower location); #15 Barber Road (0.56 miles from proposed tower location); #1651 Route 171 (0.54 miles from proposed tower location); and #3 Shaw Road (0.53 miles from proposed tower location). A sixth residence, #15 Shaw Road (0.49 miles from proposed tower location), will likely have partial, obstructed views of the proposed tower through trees during leaf-off conditions. It is important to reiterate that the current views from the properties along Shaw Road and Route 171 in the area of the "Shaw Road Triangle" are compromised by the presence of existing utility poles, transformers and multiple overhead utility lines along the south side of Shaw Road and the west side of Route 171.

The proposed tower will be partially visible from areas around Witches Woods Lake and the southern portion of Upper Bungee Lake. Views will generally be limited to winter leaf-off conditions. During spring, summer and fall leaf-on conditions, partial views will be limited to a short section of Crooked Trail Extension and parking areas at the north end of Witches Woods Lake and on a peninsula on the southwestern side of Upper Bungee Lake.

Reducing the height of the proposed tower to 110 feet would greatly reduce potential visibility and limit adverse visual impacts.

As part of this visual assessment, *Infinigy* conducted a search of historic properties in the areas surrounding the proposed tower location. According to Judy Wahlberg, Town of Woodstock representative, there are two designated historic properties in Woodstock, both of which are outside the 2-mile radius study area. The Old Quasset School is located on Frog Pond Road, approximately 6.13 miles east-northeast of the proposed tower location. The Lois Bannister House, located at 483 Center Road, is approximately 2.91 miles northeast of the proposed tower location. Based on the distance from these locations and topography/intervening tree cover, the proposed tower is not expected to be visible from these historic properties.

The total area encompassing the 2-mile radius Study Area is approximately 8,042 acres. Based on the Viewshed Analysis Map, the total area of predicted leaf-on visibility is approximately 134 acres (less than 2 percent of the total Study Area), a large percentage of which occur over open water on Lake Bungee and Witches Woods Lake. Based on the results of predictive visibility mapping, assuming leaf-on conditions, and the results of field reconnaissance conducted during the December 2011 balloon float, seasonal variation in the total area of visibility during leaf-off conditions is expected to be insignificant.

We appreciate the opportunity to assist North Atlantic Towers with this project. Please contact our office at (518) 690-0790 with any questions or if you need further information.

Sincerely,

Infinigy Engineering PLLC

Joseph/F, King

Senior Environmental Scientist

John L. Favreau, CHMM

Director of Environmental Services

- Attachments: 1. Site Location Map
 - 2. Viewshed Maps
 - 3. Photo Location Maps & Field-Verified Visibility Maps
 - 4. Photographs
 - 5. Photosimulations 150' Monopole
 - 6. Photosimulations 150' Low Profile Monopole
 - 7. Photosimulations 150' Monopine
 - 8. Photosimulations 110' Monopole

ATTACHMENT 1 SITE LOCATION MAP

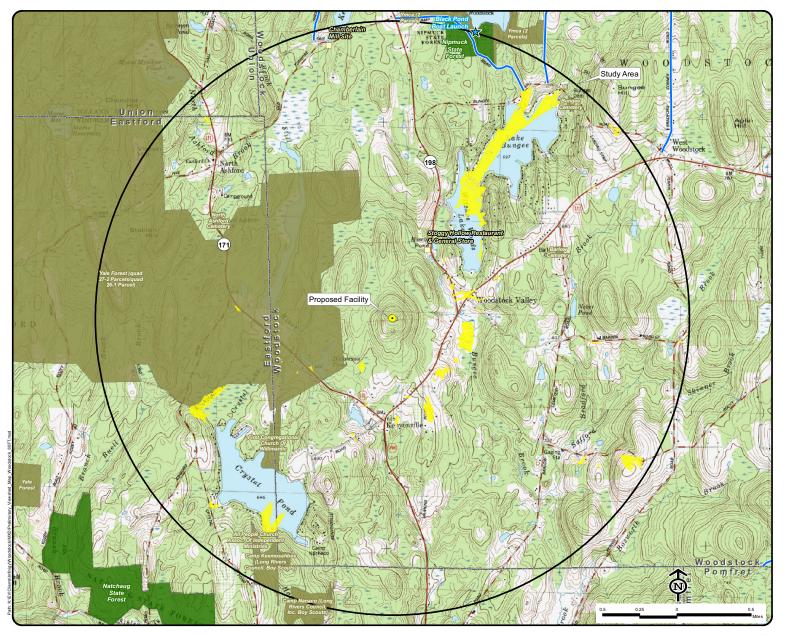
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engineering & surveying	Latham, New York 12110	SITE LOCATION MAP	
CLIENT NAME: North Atlantic Towers	SITE LOCATION: Route 198 Woodstock, CT	PROJECT NAME: Woodstock	PROJECT No.: 226-064
North Ashford Cem	Dickerson Pond	Approximate Location Woodstock Valley	Policy Policy Barrier

Kenyonville

ATTACHMENT 2 VIEWSHED MAPS



Viewshed Analysis Proposed North Atlantic Towers Wireless Telecommunications Facility Woodstock (CT1182) Route 198

Woodstock, Connecticut

- Viewshed analysis conducted using ESRI's Spatial Analyst.
- Proposed facility height is 150 feet.
- Existing tree canopy height estimated at 65 feet.
- Study Area is comprised of a two-mile radius surrounding the proposed facility and includes 8,042 acres of land. - Results not field verified by VHB.

DATA SOURCES:

- Digital elevation model (DEM) derived from Connecticut LiDAR-based Digital Elevation Data (collected in 2000) with a 10-foot spatial resolution produced by the University of Connecticut and the Center for Land Use Education and Research (CLEAR); 2007
- Forest areas derived from 2010 digital orthophotos with 0.50-meter pixel resolution; digitized by VHB, 2010
- Base map comprised of Eastford and Westford (1983)
- USGS Quadrangle Maps
- Municipal and Private Open Space data layer provided by CT DEP, 1997
- Federal Open Space data layer provided by CT DEP, 2004
- CT DEP Property data layer provided by CT DEP, December 2010
- CT DEP boat launches data layer provided by CT DEP, Dec 2008
- Scenic Roads layer derived from available State and Local listings

Map Date: 10/11/2011



Proposed Tower Location

Approximate Year-Round Visibility Area (+/- 134 acres)

Protected Municipal and Private Open Space (CT DEP, 1997)

Cemetery Preservation Conservation

Existing Preserved Open Space Recreation

General Recreation School

Fish Hatchery Flood Control Other State Park Trail Water Access Wildlife Area

CT DEP Property (CT DEP, December 2010) State Forest

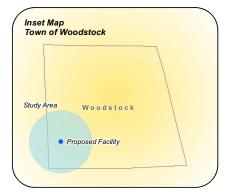
State Park Scenic Reserve Historic Preserve Natural Area Preserve

State Park DEP Owned Waterbody

Wildlife Sanctuary Federal Open Space (CT DEP, 2004)

Boat Launches (CT DEP, Dec 2009) Scenic Road (State and Local)

--- Town Line



north atlantic

towers

ATTACHMENT 3 PHOTO LOCATION MAPS

&

FIELD VERIFIED VISIBILITY MAPS



PHOTO LOCATION MAP 1 - DECEMBER 2, 2011 BALLOON TEST All Photo Locations

CLIENT NAME: North Atlantic Towers SITE LOCATION: Route 198 PROJECT NAME: NAT-Woodstock

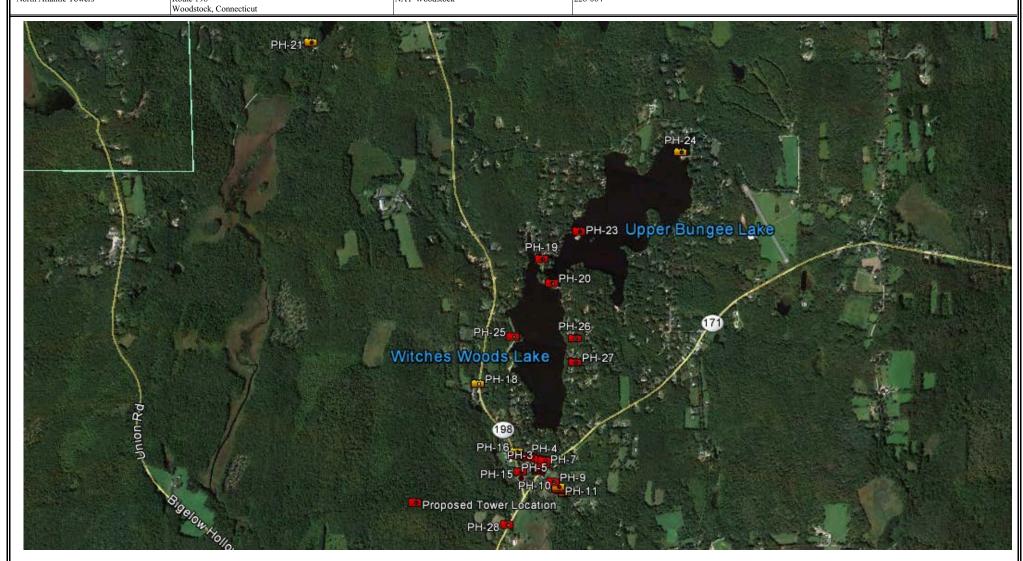




PHOTO LOCATION MAP 2 – DECEMBER 2, 2011 BALLOON TEST Shaw Road/Route 171 Area Photo Locations

CLIENT NAME: North Atlantic Towers SITE LOCATION: Route 198 PROJECT NAME: NAT-Woodstock

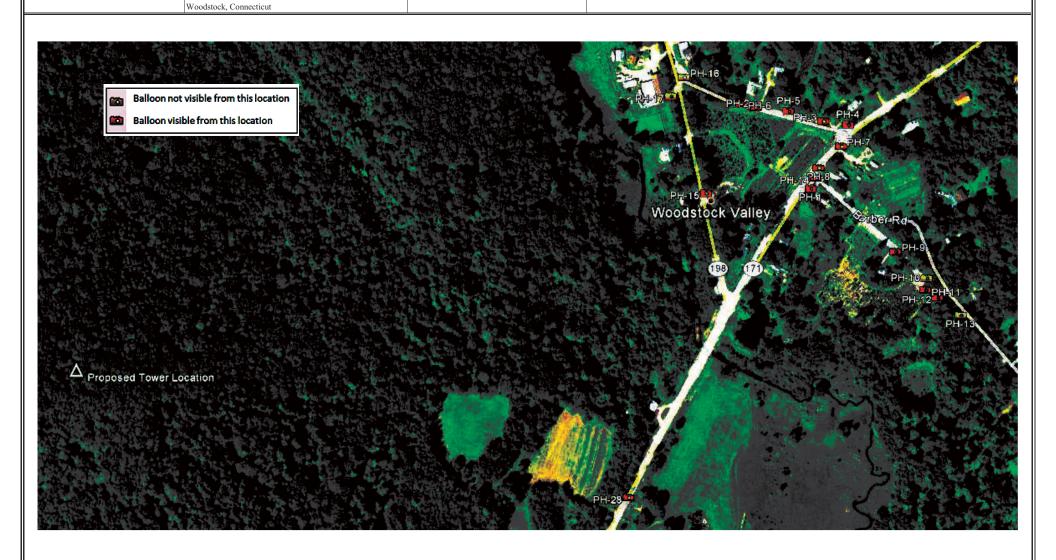




PHOTO LOCATION MAP 3 – DECEMBER 2, 2011 BALLOON TEST Barber Road/Route 171 Area Photo Locations

CLIENT NAME: North Atlantic Towers SITE LOCATION: Route 198 PROJECT NAME: NAT-Woodstock

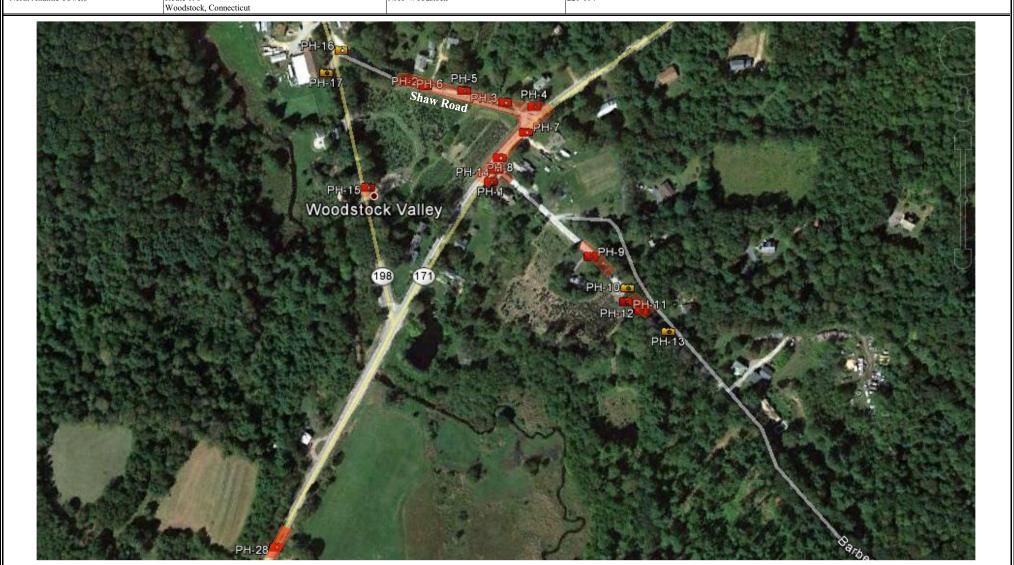




FIELD-VERIFIED VISIBILITY MAP - DECEMBER 2, 2011 BALLOON TEST *Red shaded areas indicate where balloon was visible during test

CLIENT NAME: North Atlantic Towers SITE LOCATION: Route 198

PROJECT NAME: 8 NAT-Woodstock





FIELD-VERIFIED VISIBILITY MAP 2 - DECEMBER 2, 2011 BALLOON TEST

*Red shaded areas indicate where balloon was visible during test

CLIENT NAME: North Atlantic Towers

PROJECT NAME: NAT-Woodstock

