

WZCO
Facility ID 175138
Chadbourn, North Carolina

Columbus County Schools

License to Cover Construction Permit
File No. BMPED-20130123ACA

Compliance with Special Operating Conditions or Restrictions

The construction permit for this facility includes seven (7) special operating conditions or restrictions. This Exhibit demonstrated compliance with all conditions.

1. A complete proof of performance from Jampro Antennas, Inc. providing details of the directional antenna performance is attached as a separate item. The proof of performance provides details of the compliance of the antenna with the construction permit conditions. Note that an appendix to the proof is the original vertically polarized only proof of performance.
2. An affidavit from Joey W. Taylor, PLS, certifying that the installed azimuth is correct, is attached as a separate item. Note that the certification is in two parts, certifying to the orientation of the vertically polarized three sections, dated March 26, 2012, and certifying to the orientation of the horizontally polarized component, dated August 15, 2013.
3. An affidavit from Alan D. Kirschner, the engineer who oversaw the installation of the directional antenna, is attached as a separate item.
4. The measured composite (maximum of horizontally or vertically polarized component) pattern complies with the principal minima.

Azimuth (degrees True)	Specific Limit (kW)	Measured Relative Field	Measured Power (kW)
135	5.6	.473	5.59
200	4.5	.423	4.48
340	1.25	.030	0.02

5. Figure 1 is a map showing the authorized coverage area, the area covered by the composite pattern as documented in the Proof of Performance, with the community limits for Chadbourn, North Carolina. As shown, the 60 dBu F(50,50) contour predicted for the measured pattern reaches 98.4% of the area and 98.9% of the population of Chadbourn. The boundaries on Figure 1 are taken from the 2006 TIGER/Census city boundary files. Population is from Census 2010 PL1 files. Terrain data for predicting the contours is NED03 3 second National Elevation Data.

6. Columbus County Schools, acknowledges that this facility is subject to requirements of 47 C.F.R. §§ 73.7002(c) and 73.7005(b), and that service to the area on which preference was granted shall not be downgraded during a four year on-air operating period.

7. Columbus County Schools, in coordination with other users of the site, will reduce power or cease operation as necessary to protect persons having access to the site, tower or antenna from radiofrequency electromagnetic fields in excess of the FCC guidelines.

WZCO.meas

BMPED20130123ACA
Latitude: 34-32-17 N
Longitude: 078-42-36 W
ERP: 25.00 kW
Channel: 210 89.9 MHz
AMSL Height: 139.0 m
Elevation: 39.0 m
Horiz. Pattern: Directional

Comparison of Area and Population

	Chanbourn	Measured	Percentage
Area	6.85	6.74 sq. km.	98.4%
Population	1,865	1,844 (2010)	98.9%

Timothy L. Warner, Inc.

WZCO.C
WZCO.meas

Bladenboro**Clarkton**

Chadbourn Community Limits

Whiteville**Chadbourn****Lake Waccamaw****Measured F(50-50) 60.00 dBu****CP F(50-50) 60.00 dBu****Bluff****WZCO**

Measured Composite Pattern Coverage
August 2013
Figure 1

Columbus

Scale 1:250,000

0 3 6 9 km