

W209ED

Western North Carolina Public Radio, Inc.

Cullowhee, North Carolina

Allocations Exhibit

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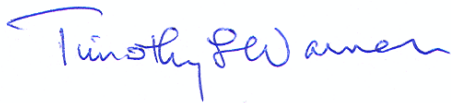
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Declaration

I declare, under penalty of perjury, that I am a technical consultant to broadcasting and other communications systems, that I have over twenty-five years of experience in the engineering of broadcast and other communications systems, that I am familiar with the Federal Communications Commission's Rules found in the Code of Federal Regulations Title 47, that I am a Professional Engineer registered in North Carolina, that I have prepared or supervised the preparation of the attached Allocations Exhibit for Western North Carolina Public Radio, Inc., and that all of the facts therein, except for facts of which the Federal Communications Commission may take official notice, are true to the best of my knowledge and belief.



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31 July 2005

Narrative

This Exhibit supports an application for a minor modification application for W209ED, Cullowhee, North Carolina, file number BLFT-19870507TB. This application proposes a new omnidirectional antenna and an increase in Effective Radiated Power from 2 watts to 27 watts at the licensed site.

Figure 1 shows the 60 dBu F(50,50) contours for the licensed facilities of BLFT-19870507TB and the proposed modified facilities. As shown, the modification is minor.

Allocations

An allocation table is included on page 5. The modification proposed herein does not create any areas of contour overlap of the proposed interference contours with any service contours of other facilities, construction permits, or applications.

All contours for existing and proposed facilities are calculated using height above average terrain calculated at one degree horizontal increments with terrain data extracted from the V-Soft Communications NED 03 terrain database. The NED 03 database is derived from the USGS National Elevation Data 30 meter terrain database. The USGS National Elevation Dataset has been developed by merging the highest-resolution, best-quality elevation data available across the United States into a seamless raster format. NED is the result of the maturation of the USGS effort to provide 1:24,000-scale Digital Elevation Model (DEM) data for the conterminous US and 1:63,360-scale DEM data for Alaska.

The Height Above Average Terrain and Distance to the 60 dBu F(50,50) contour are tabulated below. As shown, the maximum omnidirectional effective radiated power, based on the 120° radial, is 27 watts.

Bearing	60 dBu F(50,50) (km)	HAAT (m)
0	4.03	-44.3
30	4.03	-48.5
60	4.03	-292.8
90	4.03	-12.4
120	6.90	86.5
150	4.03	-103.2
180	4.03	-171.4
210	4.03	-213.8
240	4.03	-21.6
270	4.03	-76.1
300	6.05	66.5
330	6.75	83.0

Channel 6 Television

This application is a minor modification of a facility which was licensed prior to June 1, 1991. As such, predicted interference protection is not required under §74.1205(d). WNCPRI will comply with the provisions of §74.1203 with respect to actual interference.

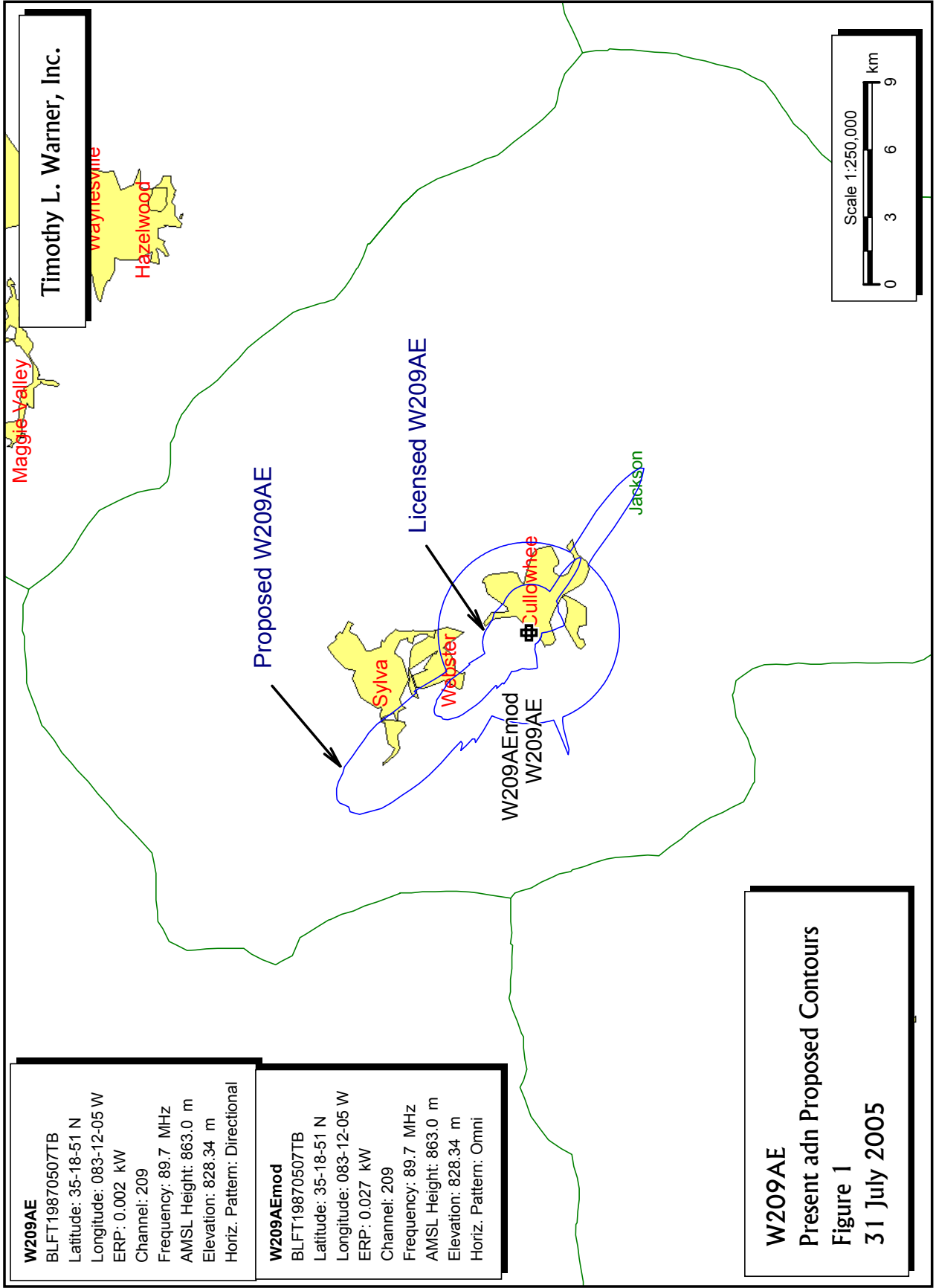
Allocation Table

Cullowhee										
REFERENCE	CH# 209D - 89.7 MHz, Pwr= 0.027 kW, HAAT=86.5M, COR= 863 M									DISPLAY DATES
35 18 51 N.	Average Protected F(50-50)= 6.9 km									DATA 07-28-05
83 12 05 W.	Ave. F(50-10) 40 dBu= 23.0 54 dBu= 9.8 80 dBu= 2.1 100 dBu= .4									SEARCH 07-29-05
CH	CALL	TYPE	AZI.	DIST	LAT.	Pwr (kW)	COR (M)	PRO (km)	*IN*	*OUT*
CITY		STATE	<--	FILE #	LNG.	HAAT (M)	INT (km)	LICENSEE	(Overlap	in km)
209D	W209AE	CN	0.0	0.00	35 18 51	0.027	863	4.0	-16.91*<	-16.91*<
Cullowhee, Etc. NC 0.0 BLFT19870507TB 83 12 05 -44 12.9 Western North Carolina Pub										
TRANSLATOR FOR WCQSFM, ASHEVILLE, NC.										
209D	W209AE	LIC DCN	0.0	0.00	35 18 51	0.001	863	1.8	-9.66*<	-14.71*<
Cullowhee, Etc. NC 0.0 BLFT19870507TB 83 12 05 -44 5.6 Western North Carolina Pub										
TRANSLATOR FOR WCQSFM, ASHEVILLE, NC.										
209D	W209AD	LIC DCN	43.3	38.82	35 34 05	0.009	1383	12.9	-12.82<	13.07
Clyde, Etc. NC 223.4 BLFT19861020TO 82 54 26 566 47.6 Western North Carolina Pub										
TRANSLATOR FOR WCQSFM, ASHEVILLE, NC.										
209D	W209AD	LIC CN	43.3	38.82	35 34 05	0.010	1388	13.3	-14.35<	12.59
Clyde, Etc. NC 223.4 BLFT19861020TO 82 54 26 571 49.2 Western North Carolina Pub										
TRANSLATOR FOR WCQSFM, ASHEVILLE, NC.										
211C	WEPR	LIC CN	119.8	83.15	34 56 26	85.000	669	74.6	65.91	8.23
Greenville SC 300.2 BLED19870508KA 82 24 38 352 10.5 South Carolina Educational										
209A	WTKR.C	CP DVN	190.7	80.72	34 35 57	0.181	387	6.5	54.86	61.29
Toccoa Falls GA 10.6 BPED19971222MA 83 21 55 12 21.8 Toccoa Falls College										
Vertical Polarization Only										
209A	WTKR	LIC CN	189.3	81.19	34 35 31	0.100	268	5.6	58.59	62.66
Toccoa Falls GA 9.2 BLED19970623KA 83 20 42 -57 18.6 Toccoa Falls College										
207C1	WLFJFM	LIC DEN	119.8	83.02	34 56 26	18.544	643	57.6	69.88	25.07
Greenville SC 300.3 BLED19830512AP 82 24 44 326 6.3 Radio Training Network, In										
210A	WTFH	LIC C	217.5	79.07	34 44 55	0.015	842	3.5	70.11	69.85
Helen GA 37.2 BLED20010111AAE 83 43 43 -151 4.9 Toccoa Falls College										
206C2	WYLV	LIC HX	319.1	101.78	36 00 13	1.600	763	43.3	87.86	58.09
Alcoa TN 138.6 BLED20030227ADH 83 56 34 477 2.6 Foothills Broadcasting, In										
208C	WETSFM	LIC CN	37.3	157.16	36 26 02	66.000	1318	91.8	17.86	59.66
Johnson City TN 218.0 BLED19820212AA 82 08 08 714 135.3 East Tennessee State Unive										
212D	W212AB	LIC DHN	262.9	61.43	35 14 38	0.000	1172	0.0	57.41	61.06
Robbinsville, Etc. NC 82.5 BLFT19870720TA 83 52 16 123 0.0 The Master's Mission										
TRANSLATOR FOR WMBW, CHATTANOOGA, TN.										
209C1	WDYN	LIC CN	265.9	193.13	35 10 17	100.000	655	82.2	3.48	98.02
Chattanooga TN 84.7 BLED19920318KC 85 18 58 433 185.6 Tennessee Temple Universit										

ERP and HAAT on direct-line with reference station.

"*"affixed to 'IN' or 'Out' values = site inside protected contour.

"<" = Contour Overlap



W209AE
BLFT19870507TB
Latitude: 35-18-51 N
Longitude: 083-12-05 W
ERP: 0.002 kW
Channel: 209
Frequency: 89.7 MHz
AMSL Height: 863.0 m
Elevation: 828.34 m
Horiz. Pattern: Directional

W209AEmod
BLFT19870507TB
Latitude: 35-18-51 N
Longitude: 083-12-05 W
ERP: 0.027 kW
Channel: 209
Frequency: 89.7 MHz
AMSL Height: 863.0 m
Elevation: 828.34 m
Horiz. Pattern: Omni

W209AE
Present adn Proposed Contours
Figure 1
31 July 2005