

W209AE

Western North Carolina Public Radio, Inc.

Cullowhee, North Carolina

Allocations Exhibit

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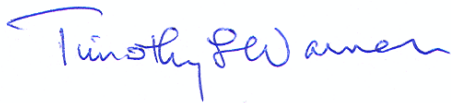
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Table of Contents

Description	Page	Figure
Declaration	2	
Narrative	3	
Allocations	3	
Height Above Average Terrain	4	
Channel 6 Television	5	
Allocation Table.....	6	
Present and Proposed Contours.....	1	

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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Narrative

This Exhibit supports an amendment application for a minor modification application for W209AE, Cullowhee, North Carolina, file number BPFT-20050801CDN. This application corrects ground elevation and supplies an Antenna Structure Registration Number.

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 only facility requiring study is W209AE, also licensed to Western North Carolina Public Radio, Inc., (“WNCPRI”). WNCPRI is filing simultaneously to upgrade W209AE. Figure 2 shows the licensed and proposed service and interference contours for W209AE and the licensed and proposed service contours for W209AE. The licensed and proposed W209AE interference contours encompass the licensed service contour of W209AE. The modification proposed herein does not create any new area of contour overlap. The intervening terrain is such that no actual interference is experienced in the W209AE service area.

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 service and interference contours for the proposed facilities are provided in this exhibit at a one degree (1°) increment.

Height Above Average Terrain

This height above average terrain, extracted digitally as described above, is tabulated below along with the distance to the 60 dBu F(50,50) contour. As shown, the maximum permissible ERP is 27 watts.

Bearing (deg)	Distance (km)	HAAT (m)
0.0	4.03	-37.5
30.0	4.03	-41.7
60.0	4.03	-286.0
90.0	4.03	-5.6
120.0	7.17	93.3
150.0	4.03	-96.4
180.0	4.03	-164.6
210.0	4.03	-207.0
240.0	4.03	-14.8
270.0	4.03	-69.3
300.0	6.34	73.3
330.0	7.03	89.8

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

REFERENCE		CH# 209D - 89.7 MHz, Pwr= 0.027 kW, HAAT=-55.3M, COR= 870 M						DISPLAY DATES		
35 18 51 N.		Average Protected F(50-50)= 4.0 km						DATA	12-06-05	
83 12 05 W.		Ave. F(50-10) 40 dBu= 12.9 54 dBu= 5.7 80 dBu= 1.6 100 dBu= .4						SEARCH	12-12-05	
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	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 WCQNSFM, ASHEVILLE, NC.										
This is the facility proposed for modification										
209D	W209AE	APP C	0.0	0.00	35 18 51	0.027	862	4.0	-16.91*	-16.91*
Cullowhee, Etc. NC 0.0 BPFT20050801CDN 83 12 05 -45 12.9 Western North Carolina Pub										
This is the application being amended										
209D	W209AD	CP C	43.3	38.82	35 34 05	0.010	1388	13.3	-14.36	12.59
Clyde, Etc. NC 223.4 BPFT20050801AZZ 82 54 26 571 49.2 Western North Carolina Pub										
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.										
211C	WEPR	LIC CN	119.8	83.15	34 56 26	85.000	669	74.6	65.62	8.23
Greenville SC 300.2 BLED19870508KA 82 24 38 352 10.5 South Carolina Educational										
209A	WTXR.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	WTXR	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	69.60	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	87.69	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										
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

