

Beech Mountain, North Carolina
Application for Minor Modification for
FM Station WWMY
On Channel 272
by
High Country Adventures, LLC

Technical Exhibit

September 2022

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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 Technical Exhibit for High Country Adventures, LLC, 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 a minor modification application for FM station WWMY, on Channel 272 in Beech Mountain, North Carolina. Allocation details are provided in this exhibit. This proposal complies fully with the requirements of 47 C.F.R. §73.207 and other applicable sections.

Figure 1 shows the proposed 60 dBu F(50,50) coverage area, the 70 dBu F(50,50) coverage area, and the community of license.

Allocations

This application proposes service to Beech Mountain, North Carolina, on channel 272. An updated Table 1: Allocations is included in this exhibit with a list of the stations, construction permits, allocations, and applications studied. All are protected under §73.207 distance separations. The station is currently licensed under §73.215, but the short spacing no longer exists.

Table 1: Allocations

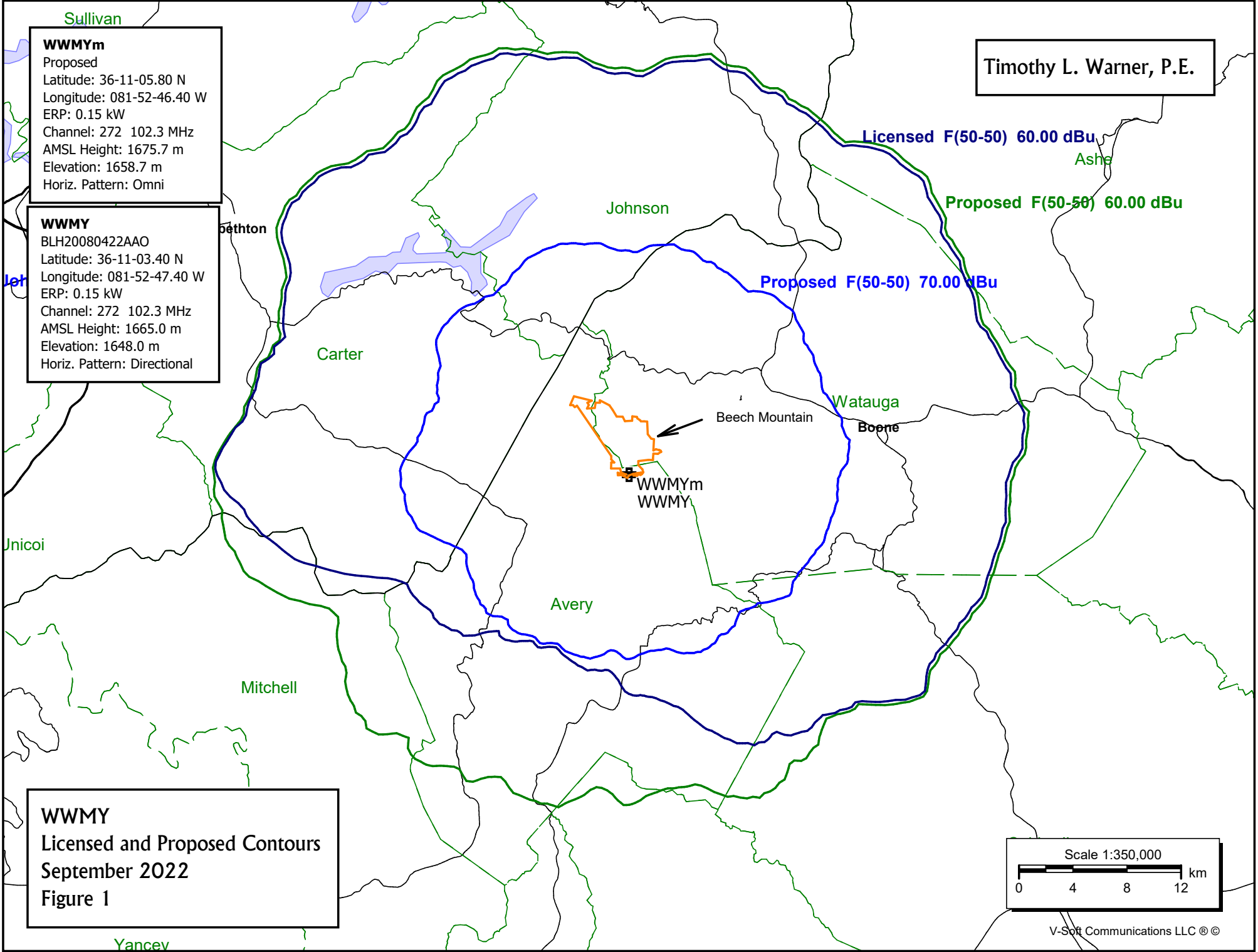
Allocation Study High Country Adventures, LLC								
REFERENCE				CLASS = A		DISPLAY DATES		
36 11 05.80 N.				Current		DATA	09-08-22	
81 52 46.40 W.				Spacings to 3rd Adj.		SEARCH	09-08-22	
----- Channel 272 - 102.3 MHz -----								
Call	Channel		Location		Azi	Dist	FCC	Margin
WWMY	STA	272A	Beech Mountain	NC	9.2	0.01	114.5	-114.5
WWMY	LIC-Z	272A	Beech Mountain	NC	198.6	0.07	114.5	-114.4
WMYI	LIC-N	273C1	Hendersonville	NC	209.7	133.61	132.5	1.1
W274BV	LIC-D	274D	Boone	NC	70.7	16.93	7.5	9.4
WDXC	LIC	272A	Pound	VA	327.8	127.25	114.5	12.8
WOLD-FM	LIC	273A	Marion	VA	20.7	85.25	71.5	13.8
WHCB	LIC	218C1	Bristol	TN	320.6	35.88	21.5	14.4
WJMH	LIC	271C0	Reidsville	NC	86.1	174.63	151.5	23.1
W275CK	LIC	275D	Mountain City	TN	14.8	32.16	7.5	24.7
W272DU	LIC-D	272D	Hickory	NC	143.8	72.40	46.5	25.9
WVEK-FM	LIC	274C3	Weber City	VA	301.2	73.95	41.5	32.5
AL5363	RSV-A	274C3	Weber City	VA	301.2	73.95	41.5	32.5
WBAV-FM	LIC	270C0	Gastonia	NC	152.6	118.93	85.5	33.4
WWST	LIC	271C1	Sevierville	TN	256.1	166.56	132.5	34.1
WLKO	LIC	275C1	Hickory	NC	141.7	109.72	74.5	35.2
W218BW	LIC	218D	Lenoir	NC	131.3	46.77	9.5	37.3
W270BN	LIC	270D	walnut Hill	TN	327.5	53.25	7.5	45.8

 RSV-R = reserved - needs protection, RSV-A = allocation.
 All separation margins include rounding

Source of Data

Transmitter location, effective radiated power, directional antenna pattern, and elevation data are extracted from the Commission's CDBS (converted to NAD 83) or LMS. All contours for existing and proposed facilities are calculated using height above average terrain calculated at one degree horizontal increments.

The contours were evaluated using terrain extracted from the FCC 30 Meter Terrain database, high resolution 1 arc-second terrain data covering the United States, formatted by V-Soft Communications to work with its allocation and mapping programs.



Timothy L. Warner, P.E.

WWMYm
Proposed
Latitude: 36-11-05.80 N
Longitude: 081-52-46.40 W
ERP: 0.15 kW
Channel: 272 102.3 MHz
AMSL Height: 1675.7 m
Elevation: 1658.7 m
Horiz. Pattern: Omni

WWMY
BLH20080422AAO
Latitude: 36-11-03.40 N
Longitude: 081-52-47.40 W
ERP: 0.15 kW
Channel: 272 102.3 MHz
AMSL Height: 1665.0 m
Elevation: 1648.0 m
Horiz. Pattern: Directional

WWMY
Licensed and Proposed Contours
September 2022
Figure 1

