

Eligibility Certification

The Commission has previously granted a broadcast application BLED- 19930210KD and found the Applicant qualified as a noncommercial educational entity with a qualifying educational program. The Applicant will use the proposed station to advance a program similar to that the Commission has found qualifying in applicant's previous application.

Environmental Effect

The grant of the construction permit requested in the Application will not have a significant environmental effect.

The antenna proposed in the Application will be mounted on an existing tower and does not involve a site location specified in 47 CFR Section 1.1307(a)(1)-(7).

No high intensity lighting as specified in 47 CFR Section 1.1307(a)(9) is proposed.

Finally, the proposed facility will not result in human exposure to radiofrequency (RF) radiation in excess of safety standards specified in Section 1.1307(b). Effective October 15, 1997, the FCC adopted revised guidelines and procedures for evaluating the environmental effects of RF emissions. These revised guidelines incorporate two tiers of exposure limits based on whether exposure occurs in a "controlled" (occupational) situation or an "uncontrolled" (general population) situation. Based on the methods published in OET Bulletin No. 65 (entitled "Evaluating Compliance with FCC-Specified Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields"), the predicted power density value produced by the proposed facility will be well below the established ANSI guideline limits.

Verification of compliance with FCC-specified guidelines for human exposure to RF radiation was determined utilizing the equations and graphs set forth in OET Bulletin No. 65. The bulletin prescribes that the fraction of the recommended limit incurred within each frequency interval should be determined and that the sum of all fractional contributions should not exceed 100%.

The proposed facility will operate with a radiation centerline at 60 meters above ground level (AGL) and an ERP of 400 watts and circular polarization. The Applicant intends to use a two-bay EPA Type-4 antenna. The antenna will employ full-wave spacing.

Utilizing FMMODEL it was determined that the highest value of power density occurs at 31.5 meters from the base of the tower and is 1.62 uW/cm^2 . That value is less than the 200 uW/cm^2 MPE limit for uncontrolled/general exposures. It is also less than the MPE for occupational/controlled areas.

Since the proposed power density is less than 100 percent of the ANSI guideline, the proposed facility complies with FCC requirements regarding radiofrequency radiation. In addition, the base of the tower will be fenced and warning signs will be posted at appropriate intervals to preclude casual access.

Furthermore, the applicant will ensure protection to station personnel working in the vicinity of their antenna. Access to the antenna supporting tower base will be restricted to authorized personnel only. The applicant for the proposed station will reduce power or cease operation, when appropriate and deemed necessary, during times of service or maintenance of the transmitting system or when work is being performed on the tower to avoid potentially harmful exposure to station personnel or workers. The applicant will initiate joint procedures with common users to be followed during times of service or maintenance of the transmission systems when necessary to avoid potentially harmful exposure to personnel.

Hazard (210): FCC F(50-50) 60.00 dBu (FCC HAAT)

Reference Area: Hazard (210): FCC F(50-50) 60.00 dBu (FCC HAAT)

Counting Grid Cell Size: 0.05 sq. km

Population Database: 2010 US Census (PL)

Services Included in Count:

Hazard (210): FCC F(50-50) 60.00 dBu (FCC HAAT)

WEBF (202): FCC F(50-50) 60.00 dBu (FCC HAAT)

WMMT (204): FCC F(50-50) 60.00 dBu (FCC HAAT)

WEKH (215): FCC F(50-50) 60.00 dBu (FCC HAAT)

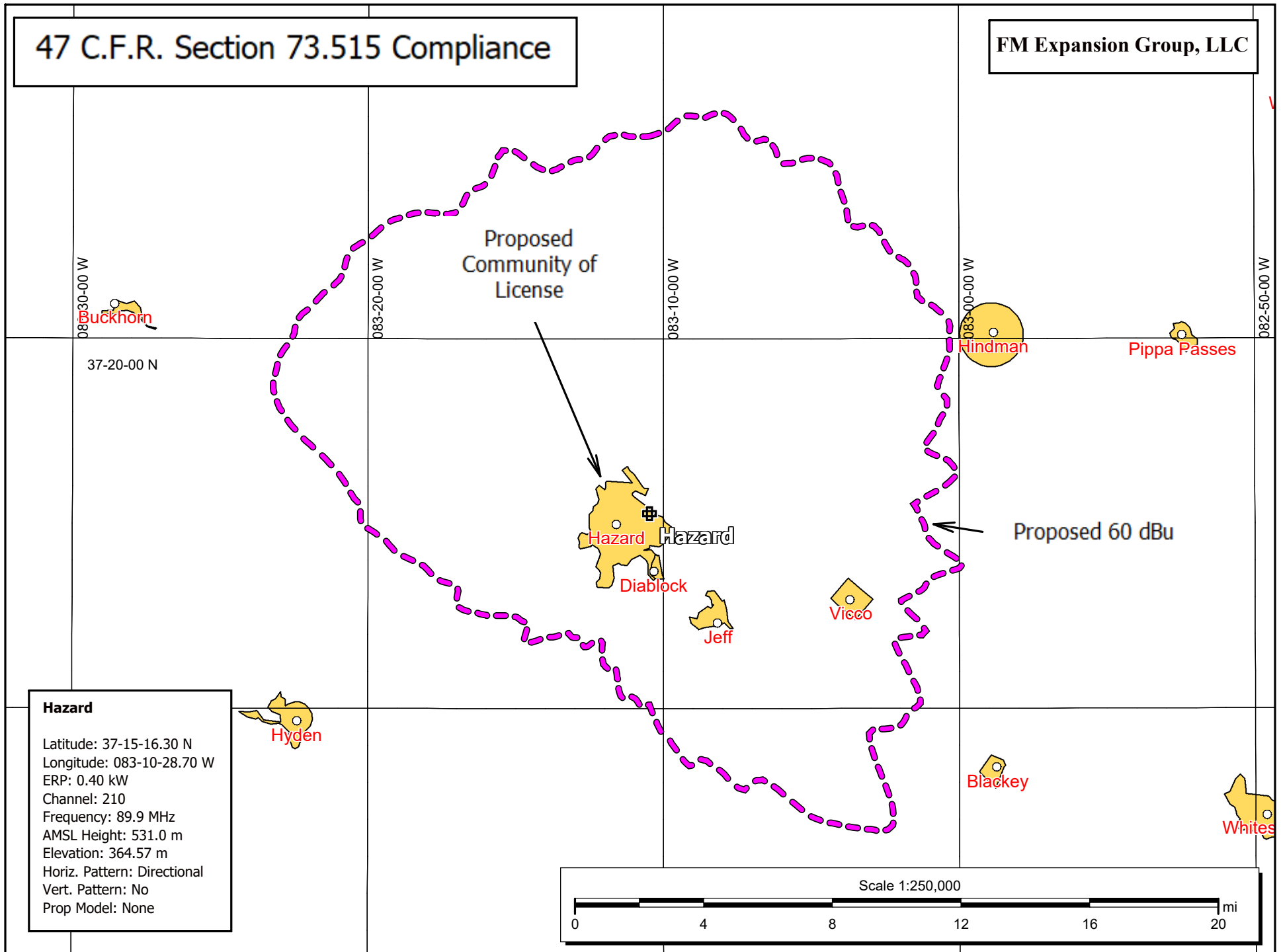
WWJD (219): FCC F(50-50) 60.00 dBu (FCC HAAT)

Count Area	Population	Housing Units	Area (sq. km)
0 Service	0	0	0.00
1 Service	0	0	0.00
2 Service	0	0	0.00
3 or more	28,508	12,675	771.49
Reference Area	28,508	12,675	771.49
	Service Pop	Running Total	Percent
0 Service	0	0	0.0 %
1 Service	0	0	0.0 %
2 Service	0	0	0.0 %
3 or more	28,508	28,508	100.0 %

	Housing Units	Population
Kentucky		
Breathitt County		
Total	6,231	13,878
3 or more	25	50
Reference Area	25	50
Knott County		
Total	7,461	16,346
3 or more	1,675	3,719
Reference Area	1,675	3,719
Leslie County		
Total	5,278	11,310
3 or more	0	0
Reference Area	0	0
Letcher County		
Total	11,601	24,519
3 or more	33	80
Reference Area	33	80
Perry County		
Total	12,791	28,712
3 or more	10,942	24,659
Reference Area	10,942	24,659

47 C.F.R. Section 73.515 Compliance

FM Expansion Group, LLC

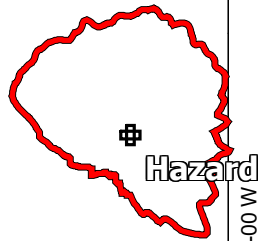


Diversity of Ownership

This study demonstrates that the principal community (city grade) contour of the proposed station does not overlap the principal community contour of any other authorized station (comparing radio to radio and television to television, including non-fill-in translator stations) in which any party to the application has an attributable interest as defined in 47 CFR Section 73.3555.

Contour Color Key

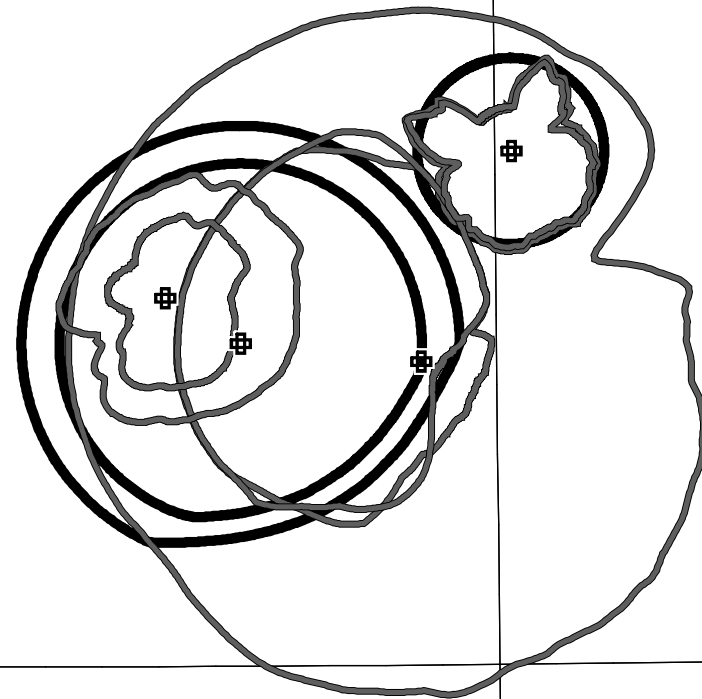
- Proposed Station
- Attributable Station



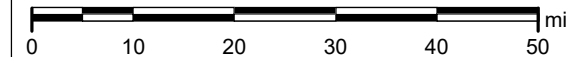
083-00-00 W

082-00-00 W

36-00-00 N



Scale 1:1,200,000



Appalachian Educational Communication Corporation

Hazard

REFERENCE
37 15 16.30 N.
83 10 28.70 W.

CH# 210A - 89.9 MHz, Pwr= 0.4 kW DA, HAAT= 143.3 M, COR= 531 M
Average Protected F(50-50)= 17.63 km
Standard Directional

DISPLAY DATES
DATA 11-01-21
SEARCH 11-07-21

CH CITY	CALL	TYPE STATE	ANT --	AZI <--	DIST FILE #	LAT LNG	PWR(kw) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT*
211C2 Pineville	WEKP	LIC DEN KY		220.6 40.2	73.11 BLED20110922AAL	36 45 13.30 83 42 29.70	5.200 227	63.8 688	43.2 Eastern Kentucky Universit	0.5	18.4
211C3 Pikeville	WJSO	LIC _CN KY		67.0 247.4	60.28 BMLED20031106AGD	37 27 52.30 82 32 44.50	3.800 139	45.7 480	24.9 The Moody Bible Institute	1.2	6.5
211C3 Pikeville	WJSO	CP _CN KY		67.3 247.7	60.38 0000125758	37 27 44.80 82 32 36.10	2.400 172	40.2 521	25.9 The Moody Bible Institute	2.7	6.9
210C2 Georgetown	WKVO	LIC DCN KY		311.6 130.8	160.37 BLED19980511KA	38 12 15.30 84 32 50.80	50.000 125	133.8 394	48.2 Educational Media Foundati	6.7	50.7
210B Huntington	WVWV	LIC _CN WV		31.5 212.1	162.23 BLED19940810KZ	38 29 41.30 82 12 02.50	8.100 355	128.7 582	53.4 West Virginia Educational	13.9	49.2
209A Paintsville	Paintsvil	MYF D__ KY		25.6 205.8	69.48	37 49 03.00 82 49 56.99	4.500 47	27.1 315	17.4 User	23.0	21.8
207C1 Mckee	KYAI	LIC DCN KY		251.0 70.6	60.59 BLED20111028AEV	37 04 30.30 83 49 13.70	50.000 165	3.6 517	31.6 Educational Media Foundati	42.6	24.4
208C Johnson City	WETS-FM	LIC _CN TN		134.3 314.9	129.89 BMLED20060802ATX	36 26 02.30 82 08 07.40	66.000 692	13.6 1318	95.8 East Tennessee State Unive	96.8	32.7
212C1 Morehead	WMKY	LIC DCN KY		348.9 168.8	104.56 BLED20031022ALF	38 10 38.30 83 24 16.70	37.000 276	7.4 571	60.4 Morehead State University	78.2	42.3
210C3 Clinton	WDVX	LIC _CN TN		219.0 38.4	150.50 BLED20110614ABH	36 11 53.20 84 13 50.70	0.200 597	94.9 1089	33.8 Cumberland Communities Com	46.1	89.4
213A Wise	WISE-FM	LIC _CN VA		119.0 299.4	66.94 BLED20010328AAC	36 57 39.40 82 30 55.60	0.220 204	1.0 932	18.0 Virginia Tech Foundation,	48.3	47.1

Terrain database is FCC NGDC 30 Sec , R= 73.215 qualifying spacings or FCC minimum Spacings in KM, M= Margin in KM
In & Out distances between contours are shown at closest points. Reference zone= - Zone 2, Co to 3rd adjacent.
Ant Column: (D= DA Standard, Z= DA 73.215, N= Not DA 73.215, _= Omni), Polarization (C,H,V,E), Beamtilt(Y,N,X)
« = Station meets FCC minimum distance spacing for its class.

Reasonable Assurance

The Applicant has reasonable assurance from Crown Caastle that the space on the structure identified herein is available.

That assurance was obtained from the following individual:

Name: Meredith Norris

Title: Market Sales Manager (employee of owner)

Phone: (602) 845-1776

Other Authorizations and Attributable Interests

The Applicant is the licensee of the following facilities:

- 2460 WHCB BRISTOL TN FM
- 143038 W242CQ COLONIAL HEIGHTS TN FX
- 143217 W277BT ABINGDON VA FX
- 143254 W262BB MAX MEADOWS VA FX
- 144416 W247CH KINGSPORT TN FX
- 145098 W264BY KINGSPORT TN FX

Dr. Kenneth Hill holds an attributable interest in WMCH Radio, Inc. That entity is the licensee of the following facility:

- 140909 W262CG SPURGEON TN FX

Dr. Kenneth Hill holds an attributable interest in Information Communications Corporation. That entity is the licensee of the following facilities:

- 36981 WABN ABINGDON VA AM
- 42652 WPWT COLONIAL HEIGHTS TN AM
- 64508 WHGG KINGSPORT TN AM
- 200961 W281CF ABINGDON VA FX

Dr. Kenneth Hill is the licensee of the following facilities:

- 44050 WEBT JOHNSON CITY TN AM
- 201655 W229DH JOHNSON CITY TN FX