

Pineville, Kentucky
Application for New Noncommercial FM Station
On Channel 21.1 Class C2
by
Eastern Kentucky University

Exhibit 1.1
Second Service for Section 307(b) Preference

October 2007

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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 Exhibit 11, Second Service for Section 307(b) Preference for Eastern Kentucky University, 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 provides details of the Second Noncommercial Service on reserved channels for the proposed new station to serve Pineville, Kentucky. This proposal was studied under the procedures in the Public Notice¹ which provided additional details for the window during which this application is filed. All licensed facilities and all construction permits for new unbuilt but authorized facilities were considered.

Second Service Population

This proposal serves a second service area with a population of 31,937 persons. The second service population is 32.1% of the population within the proposed 60 dBu F(50,50) service contour. Because the population exceeds the threshold, this application should be considered under Priority 2, providing second receptive service preference. Figure 1 shows the area and data.

There is also first service population which is to be considered in Section 307(b) analysis. The first and second service tabulation is:

	Population	Percentage
First Service	28,168	28.4
Second Service	31,937	32.1
Total First and Second Service	60,105	60.5

¹ Media Bureau Announces NCE FM New Station and Major Change Filing Procedures For October 12 – October 18, 2007 Window; Limited Application Filing Freeze to Commence on September 8, 2007, DA 07-3521, released August 9, 2007.

Source of Data

Transmitter location, effective radiated power, directional antenna pattern, and elevation data are extracted from the Commission's CDBS. All contours for existing and proposed facilities are calculated using height above average terrain calculated at one degree horizontal increments. Terrain data is 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.

All population data is from 2000 U.S. Census SF1 data files. Population is counted by considering the location of the centroid of each census bloc. The data for each block is counted if it falls within the area being counted.

Population Database: 2000 US Census (SF1)

	Service Pop	Running Total	%
1st Service	28,168	28,168	28.4
2nd Service	31,937	60,105	60.5
3rd Service (or >)	39,225	99,330	100.0

Timothy L. Warner, Inc.

Pineville

Latitude: 36-43-49 N
Longitude: 083-46-25 W
ERP: 4.00 kW
Channel: 211
Frequency: 90.1 MHz
AMSL Height: 717.0 m
Elevation: 665.32 m
Horiz. Pattern: Directional

- First Service
- Second Service
- Three+ Services

- Pineville
- WVCT
- WLMU
- WEKF
- WTHL
- WEKH
- WUOT

Pineville, Kentucky
First and Second Service
16 October 2007
Figure 1

