

Calypso, North Carolina
Application for Modified Facilities for a New Noncommercial FM Station
On Channel 216 Class A
by
Pathway Christian Academy, Inc.

Exhibit 11
Second Service for Section 307(b) Preference

October 2012

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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 Pathway Christian Academy, 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 provides details of the Second Noncommercial Service on reserved channels for the proposed minor modification for a new station to serve Calypso, North Carolina. 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 as of the closing date of the filing window.

This minor modification application proposes changes to a facility for which the construction permit was granted using a points determination in Group 158 of the 2007 filing window.² The MX group first eliminated one application by application of Section 307(b) first and second service, then proceeded to a points hearing. The applicant for this facility was awarded two (2) points for diversity of media ownership. The facilities proposed in this facility increase first and second service area and population with respect to the construction permit facility, with no loss of any of the original first and second service area. There is a minor loss of area which already receives three or more services. Figure 1 shows the Construction Permit and the proposed contours. The permittee maintains diversity of media ownership as shown elsewhere.

Second Service Population

This proposal serves a second service area with a population of 26,266 persons. The second service population is 84.6% of the population within the proposed 60 dBu F(50,50) service contour. Because the population exceeds the threshold, this application should be

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.

² See *Memorandum Opinion and Order*, FCC 10-29, released February 16, 2010, at ¶¶132-133.

considered under Priority 2, providing second receptive service preference. Figure 1 shows the area and data. There is also second service population which is to be considered in Section 307(b) analysis. The first and second service tabulation is:

| | Population | Percentage |
|--------------------------------|------------|------------|
| First Service | 947 | 3.1 |
| Second Service | 26,266 | 84.6 |
| Total First and Second Service | 27,213 | 87.7 |

Source of Data

Transmitter location, effective radiated power, directional antenna pattern, and elevation data are extracted from the Commission's CDBS as of the close of the filing window, for the purposes of first and second noncommercial service. 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 2010 U.S. Census PL 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. Corresponding data using the 2000 Census in use at the close of the filing window can be provided if requested.

| Service Count Population Report 2010 US Census (PL) | | | |
|---|-------------|---------------|-------|
| | Service Pop | Running Total | % |
| 1st Service | 947 | 947 | 3.1 |
| 2nd Service | 26,266 | 27,213 | 87.7 |
| 3rd Service (or >) | 3,823 | 31,036 | 100.0 |

NEWmod
BNPED20071018ACJ
Latitude: 35-12-26 N
Longitude: 078-03-20 W
ERP: 2.20 kW
Channel: 216 91.1 MHz
AMSL Height: 94.0 m
Elevation: 49.0 m
Horiz. Pattern: Directional

NEW.C
BNPED20071018ACJ
Latitude: 35-12-42 N
Longitude: 078-02-11 W
ERP: 4.752 kW
Channel: 216 91.1 MHz
AMSL Height: 82.0 m
Elevation: 46.0 m
Horiz. Pattern: Directional

Contours Shown

- █ NEW.C
- █ NEWmod
- █ WCPE
- █ WYBJ
- █ WKNS

- █ First Service
- █ Second Service
- █ Three or More Services

Calypso, NC, Modification
First and Second Service
October 2012
Figure 1

Timothy L. Warner, Inc.

