

**Exhibit 11 B**  
**Savannah Adventist LPFM**  
**Section 73.870(a)(1)**  
**Supplemental Showing**  
**Savannah GA**

This statement is being prepared on behalf of Savannah Adventist LPFM ("Savannah") in support of the minor change to the licensed facility of WYAW-LP (Facility ID 193131, Savannah, GA.) to reduce interference. As well, in an effort to assist Alpha Media Licensee LLC, this instant application is proposing a change in channel from channel 241 to channel 228, with no change in antenna location coordinates. Alpha Media has requested channel 241 for W228CI (Fac ID #153405) in an application to be file concurrently. Both applicants receive better coverage and less interference with this change.

The current license for WYAW-LP is operating on channel 241, which is a second adjacent to the licensed WJCL-FM. While the current license for WYAW-LP meets the contour protection requirements for WJCL-FM, fringe interference still exists. The change to channel 228 would eliminate second adjacent interference from WJCL-FM while reducing received second adjacent interference from WEAS-FM.

Figure 1 is a map demonstrating the current population and area that currently receive interference from surrounding stations. On WYAW-LP's current channel (channel 241), it is predicted that 192 people in an area of 1.4 sq. km currently receive interference.

Figure 1 Pages 2-3 is the tabulation of interference results from the map in Figure 1.

Figure 2 is a map demonstrating the proposed channel's population and area that would receive interference from surrounding stations. On WYAW-LP's proposed channel (channel 228), it is predicted that 0 people in an area of 0.3 sq. km would receive interference.

Figure 2 Pages 2-3 is the tabulation of interference results from the map in Figure 2.

Based on the above, there would be a net reduction of 192 people that would receive interference (a 100% reduction) and a net reduction in the interference area of 1.1 sq. km (a 78.6% reduction). This area of reduced interference is an area that is important to the applicant. Two local engineers have driven the areas of the signal of both channel 241 and channel 228, have compared data, and have confirmed that channel 228 is a cleaner channel in the areas that most matter to the applicant. Therefore, it is believed that the proposed application is in compliance with Section 73.870(a)(1).

Longley-Rice Signal Strength

■ > 60.0 dBuV/m

## Figure 1

WYAW-LP (Present) - Channel 241L1 - Savannah, GA  
Supplemental Showing - Section 73.870(a)(1)  
Longley-Rice 60 dBu Signal Strength Interference Study  
Interference Population: 192; Interference Area: 1.4 sq.

### WYAW-LP (Present)

Class: L1  
Latitude: 32-09-10 N  
Longitude: 081-14-42 W  
ERP: 0.10 kW  
HAAT: 27.22 m  
Channel: 241  
Frequency: 96.1 MHz  
AMSL Height: 34.0 m  
Elevation: 6.0 m  
Horiz. Pattern: Omni  
Vert. Pattern: No  
Prop Model: Longley-Rice  
Climate: Cont temperate  
Conductivity: 0.0050  
Dielec Const: 15.0  
Refractivity: 311.0  
Receiver Ht AG: 9.1 m  
Receiver Gain: 0 dB  
Time Variability: 50.0%  
Sit. Variability: 50.0%  
ITM Mode: Broadcast  
Terrain: NED 3 Second US Terrain  
Cell Size: 0.1  
Profile Increment: 0.1

F(50,50) 60 dBu



WYAW-LP (Present)

Stations that Cause Interference

■ WJCL-FM (243)

Scale 1:91,667  
0 1 2 3 km

Figure 1 Page 2  
WYAW-LP (Facility ID: 193131)  
Savannah Adventist LPFM

Population Database: 2010 US Census (PL)

V-Soft Communications Population Report

WYAW-LP (241) Savannah, GA - BNPL20131112AAJ  
Lat: 32-09-10 N Lng: 081-14-42 W [NAD27]  
ERP: 0.10 kW AMSL: 34.0 m  
FM Interference Study  
Protected: FCC F(50-50): 60 dBu  
Interference considered within distance based on interfering  
station's power and channel relationship.  
D/U Ratios Used:  
    Co: 20.0 dB  
    First Adj: 6.0 dB  
    Second Adj: -40.0 dB  
    Third Adj: Not Considered

Threshold for reception: 60.0 dBu.

Signal Resolution: 0.1 km

Study Date: 2/15/2018  
FM Database Date: 2/15/2018

Primary Terrain: NED 3 Second US Terrain  
Secondary Terrain: FCC 30 Second US Database

Population Database: 2010 US Census (PL)

Percentages calculated using a baseline population of 18,385.

Stations which cause interference:

Call Letters	H Units	Population	%	Area (sq. km)
WJCL-FM (243)	83	192	1.044	1.44

Masking Summary:

Call Letters	Total Interference		Unique Interference	
	Population	%	Population	%
WJCL-FM (243)	192	1.044	192	1.044

Stations considered which do not cause interference:

WEJZ (241)  
WQZY (240)  
W241BG (241)  
W241CO.C (241)  
WWPW (241)  
W242CJ.C (242)  
W242CJ (242)  
WJIZ-FM (242)  
W242BE (242)  
WHQC (241)  
WMXZ (240)  
W240AX (240)  
W242CR.C (240)

WKZQ-FM (241)  
W241BI (241)  
W241CT.C (241)  
1777425.A (241)  
WKSP (242)

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Totals for WYAW-LP.C (241)

	Population	Area
Calculation Area Population:	18,385	[ 101.0 sq. km ]
Not Affected by Terrain Loss:	18,385	[ 101.0 sq. km ]
<b><u>Interfered Population:</u></b>	<b><u>192</u></b>	<b><u>[ 1.4 sq. km ]</u></b>
Interference Free:	18,193	[ 99.6 sq. km ]
Percent Interference:	1.04 %	
Terrain Blocked Population:	0	[ 0.0 sq. km ]

Longley-Rice Signal Strength

■ > 60.0 dBuV/m

**FIGURE 2**

WYAW-LP (Proposed) - Channel 228L1 - Savannah, GA  
Supplemental Showing - Section 73.870(a)(1)  
Longley-Rice 60 dBu Signal Strength Interference Study  
Interference Population: 0; Interference Area: 0.3 sq. km

**WYAW-LP (Proposed)**

Class: L1  
Latitude: 32-09-10 N  
Longitude: 081-14-42 W  
ERP: 0.10 kW  
HAAT: 27.22 m  
Channel: 228  
Frequency: 93.5 MHz  
AMSL Height: 34.0 m  
Elevation: 6.0 m  
Horiz. Pattern: Omni  
Vert. Pattern: No  
Prop Model: Longley-Rice  
Climate: Cont temperate  
Conductivity: 0.0050  
Dielec Const: 15.0  
Refractivity: 311.0  
Receiver Ht AG: 9.1 m  
Receiver Gain: 0 dB  
Time Variability: 50.0%  
Sit. Variability: 50.0%  
ITM Mode: Broadcast  
Terrain: NED 3 Second US Terrain  
Cell Size: 0.1  
Profile Increment: 0.1

**F(50,50) 60 dBu**

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**WYAW-LP (Proposed)**

Stations that Cause Interference

■ WEAS-FM (226)

Scale 1:91,667

0 1 2 3 km

Figure 2 Page 2  
WYAW-LP (Facility ID: 193131)  
Savannah Adventist LPFM

Population Database: 2010 US Census (PL)

V-Soft Communications Population Report

WYAW-LP.C (228) Savannah, GA - BNPL20131112AAJ  
Lat: 32-09-10 N Lng: 081-14-42 W [NAD27]  
ERP: 0.10 kW AMSL: 34.0 m  
FM Interference Study  
Protected: FCC F(50-50): 60 dBu  
Interference considered within distance based on interfering  
station's power and channel relationship.  
D/U Ratios Used:  
    Co: 20.0 dB  
    First Adj: 6.0 dB  
    Second Adj: -40.0 dB  
    Third Adj: Not Considered

Threshold for reception: 60.0 dBu.

Signal Resolution: 0.1 km

Study Date: 2/15/2018  
FM Database Date: 2/15/2018

Primary Terrain: NED 3 Second US Terrain  
Secondary Terrain: FCC 30 Second US Database

Population Database: 2010 US Census (PL)

Percentages calculated using a baseline population of 18,385.

Stations which cause interference:

Call Letters	H Units	Population	%	Area (sq. km)
WEAS-FM (226)	0	0	0.000	0.29

Masking Summary:

Call Letters	Total Interference		Unique Interference	
	Population	%	Population	%
WEAS-FM (226)	0	0.000	0	0.000

Stations considered which do not cause interference:

WJBT (227)  
WFDZ (228)  
WZAE (227)  
1759047.A (227)  
1762044.A (227)  
W228EB.C (228)  
WMRG (228)  
WVOH-FM (228)  
WBQO (229)  
W229AJ (229)  
WPEZ (229)  
WWWZ (227)  
1761968.A (227)

WDOG-FM (228)  
WARQ (228)  
WOEZ (229)

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Totals for WYAW-LP.C (228)

	Population	Area
Calculation Area Population:	18,385	[ 101.0 sq. km ]
Not Affected by Terrain Loss:	18,385	[ 101.0 sq. km ]
<b><u>Interfered Population:</u></b>	<b><u>0</u></b>	<b><u>[ 0.3 sq. km ]</u></b>
Interference Free:	18,385	[ 100.7 sq. km ]
Percent Interference:	0.00 %	
Terrain Blocked Population:	0	[ 0.0 sq. km ]