

**Comprehensive Technical Statement
In Support of
New Beginning Outreach Ministries of Americus, Inc.
Application for New LPFM Station
93.1 MHz, Channel 226L1
Americus, GA**

Introduction

New Beginning Outreach Ministries of Americus, Inc. proposes a new LPFM station to serve Americus, GA on 93.1 MHz, channel 226L1.

The proposed site meets all spacing requirements with respect to all other operating facilities, construction permits, allocations, and applications.

The following table lists all potential conflicts whose distances fall within 25 km of the required separation¹:

facid	adj	chan	lpclass	rrs	status	call	st	city	kW	da	haat	brg	km	req	Δ
190400	2	228C3	C3		CP	WMRG	GA	MORGAN	25	Y	100	214	45.20	40	5.20
170973	0	226A	A		LIC	WWKM	GA	ROCHELLE	4.7	N	81	100	77.00	67	10.00
53679	1	227C0	C0		CP	WVFJ-FM	GA	GREENVILLE	38	N	491	336	122.99	111	11.99
53679	1	227C1	C1		LIC	WVFJ-FM	GA	MANCHESTER	27	N	491	336	122.99	100	22.99
41207	0	226C2	C2		LIC	WBBK-FM	GA	BLAKELY	45	N	100	222	115.82	91	24.82
124853	0	226L1	L1		LIC	WSRD-LP	GA	ALBANY	0.09	N	32	177	48.86	24	24.86

Data Sources

Distances were calculated using the FCC method defined in 73.208 of the Commission's Rules.

The facility data used in preparing the application was current as of June 17, 2013. Compliance with all spacing and interference requirements was confirmed as of November 5, 2013.

¹ The columns in the table include "lpclass," which is the class of the record as determined in accordance with the note to paragraphs a, b, and c in 73.807; "rrs," which indicates whether the station was listed as carrying a radio reading service on a subcarrier in 2000; "req," which is the separation required by 73.807; and "Δ" which is the margin over that required separation (a negative number here indicates a short spacing).

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Translator/ Booster Input Interference

There are two translator records within 20 km of the proposed site:

- W244CY (licensed) is fed via W202BZ. Channel 202 is not adjacent to the proposed channel 226.
- NEW, Facility ID 138226 (application) was proposed to rebroadcast WPWB, with a direct off-air pickup. WPWB operates on channel 213, which is not adjacent to the proposed channel 226. This application was dismissed on July 19, 2013.

There are no boosters within 50 km of the proposed site.

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Form 318 Tech Box Data

Class	LP100
Channel	226
Coordinates (NAD-27)	32 04 24 N Lat 84 14 08 W Lon
ASR	none, not required (TOWAIR determination attached)
Site Elevation AMSL	125 m
Overall Tower Height AGL	18 m
Antenna Center AGL	18 m
Power/height certification	YES
Environmental	YES - Exhibit 11 (This document)

Additional Information

Coordinates (NAD-83)	32 04 24.6 N Lat 84 14 07.6 W Lon
Height above average terrain	19 m (<i>FCC Online HAAT calculator, 360 radials</i>)
Estimated ERP	100 W-H + 100 W-V
Antenna type	Omnidirectional

International

The FM Agreements with Canada and Mexico require evaluation and potential coordination of any proposal within 320 km of the border.

The distance to the nearest point along the US/Canada border is 1,076 km. Coordination with Canada is not required.

The distance to the nearest point along the US/Mexico border is 1,425 km. Coordination with Mexico is not required.

Quiet Zones

The proposed site is outside the National Radio Quiet Zone (National Radio Astronomy Observatory Notification Area) in West Virginia.

The proposed site is outside the Arecibo Observatory notification area in Puerto Rico.

The proposed site is not within a 100 km extension of the Table Mountain Radio Receiving Zone in Colorado.

Protected Monitoring Stations

The nearest Protected Monitoring Station is 204 km distant, in Powder Springs, GA. This is well beyond any potential 80 dBu contour.

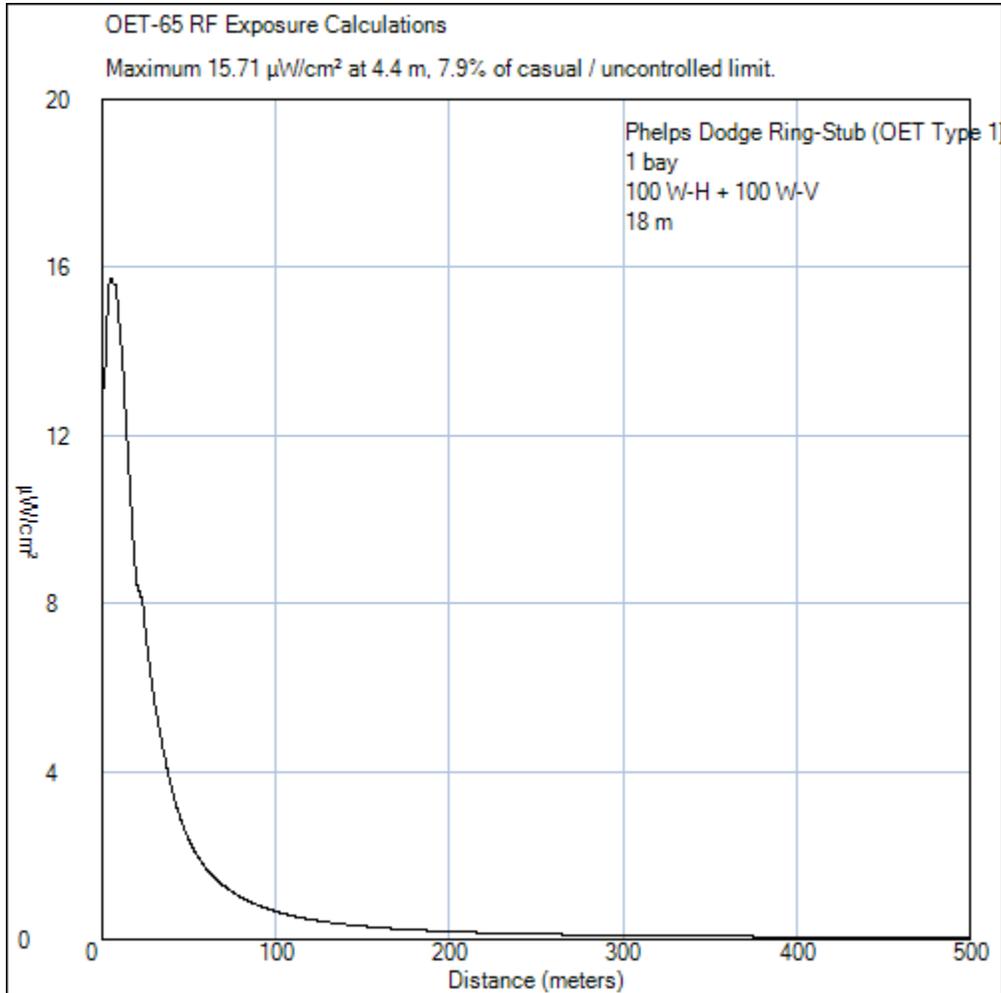
Environmental

The antenna will be mounted 18 m above ground and 12 m above the roof on a 12 m tower. No significant construction or excavation will be performed.

RF Exposure

The roof of the building is not accessible to the public. The antenna will be mounted 18 m above the ground.

Based on the estimated 100 W ERP, the distance to the 200 $\mu\text{W}/\text{cm}^2$ limit for casual / uncontrolled exposure in the horizontal lobe of the antenna will be 5.8 m.



Assuming the worst-case antenna, a one-bay OET Type 1, the maximum RF exposure on the ground using the formula in OET-65 is 15.71 $\mu\text{W}/\text{cm}^2$. This is less than 8% of the limit for casual / uncontrolled exposure. Any modern antenna will provide significantly lower exposure.

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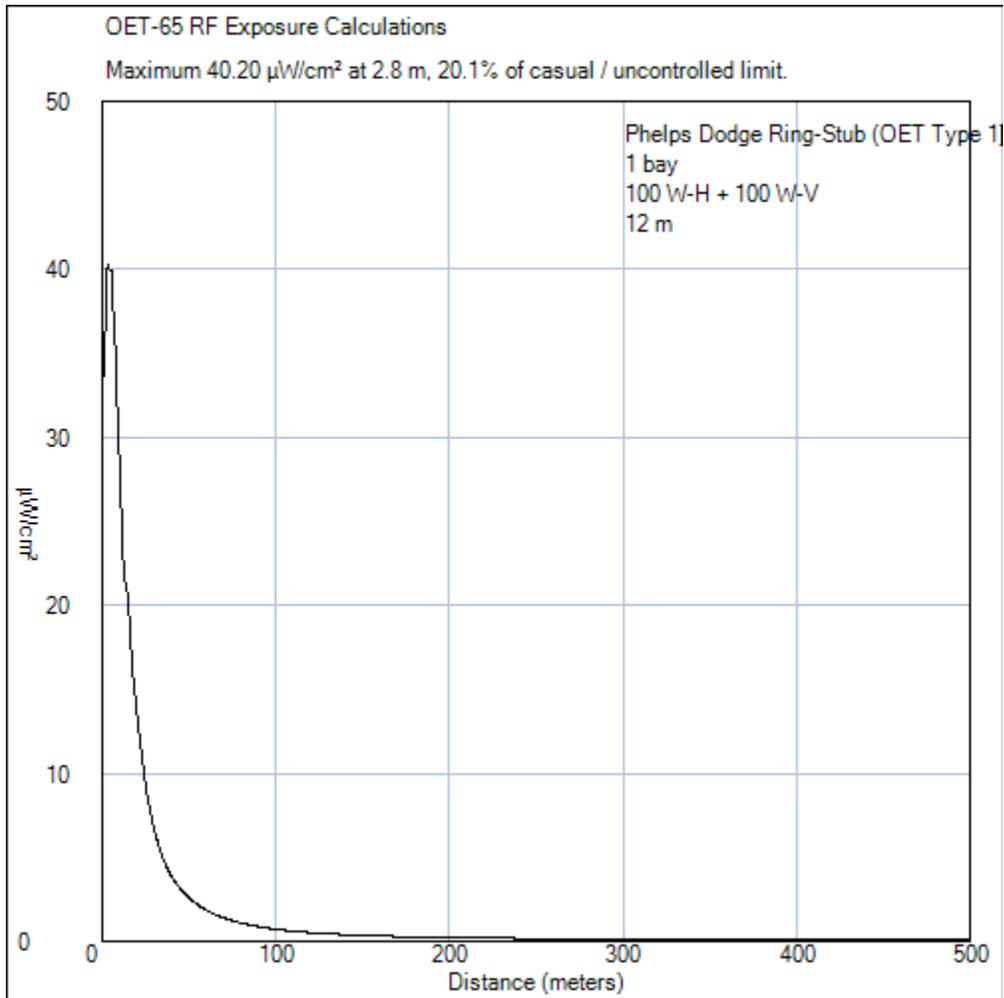
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Although the roof is inaccessible to the public, workers may occasionally be present. The antenna will be mounted 12 m above the roof.



On the roof, again using the OET Type 1 antenna, the maximum exposure would be 40.2 $\mu\text{W}/\text{cm}^2$. This is 20.1% of the limit for casual / uncontrolled exposure. Any modern antenna will provide significantly lower exposure.

Appropriate signage will be provided at the tower base.

The applicant commits to suspending operations when necessary to protect workers on the tower.

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TOWAIR Determination Results

A routine check of the coordinates, heights, and structure type you provided indicates that this structure does not require registration.

*** NOTICE ***

TOWAIR's findings are not definitive or binding, and we cannot guarantee that the data in TOWAIR are fully current and accurate. In some instances, TOWAIR may yield results that differ from application of the criteria set out in 47 C.F.R. Section 17.7 and 14 C.F.R. Section 77.13. A positive finding by TOWAIR recommending notification should be given considerable weight. On the other hand, a finding by TOWAIR recommending either for or against notification is not conclusive. It is the responsibility of each ASR participant to exercise due diligence to determine if it must coordinate its structure with the FAA. TOWAIR is only one tool designed to assist ASR participants in exercising this due diligence, and further investigation may be necessary to determine if FAA coordination is appropriate.

DETERMINATION Results

PASS SLOPE(100:1)NO FAA REQ - 5094.0 Meters (16712.4 Feet)away & below slope by 47.0 Meters (154.199 Feet)

Type	C/R	Latitude	Longitude	Name	Address	Lowest Elevation (m)	Runway Length (m)
AIRP	R	32-06-16.00N	084-11-44.00W	JIMMY CARTER RGNL	SUMTER AMERICUS, GA	139.8	1832.2

PASS SLOPE(100:1)NO FAA REQ - 5687.0 Meters (18657.9 Feet)away & below slope by 53.0 Meters (173.88 Feet)

Type	C/R	Latitude	Longitude	Name	Address	Lowest Elevation (m)	Runway Length (m)
AIRP	R	32-06-43.00N	084-11-44.00W	JIMMY CARTER RGNL	SUMTER AMERICUS, GA	139.8	1832.2

Your Specifications

NAD83 Coordinates

Latitude 32-04-24.6 north
Longitude 084-14-07.6 west

Measurements (Meters)

Overall Structure Height (AGL) 18
Support Structure Height (AGL) 6
Site Elevation (AMSL) 125

Structure Type

BTWR - Building with Tower

Tower Construction Notifications

Notify Tribes and Historic Preservation Officers of your plans to build a tower.

CLOSE WINDOW

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