

**APPLICATION
FOR A
FM AUXILIARY
CONSTRUCTION PERMIT**

FCC FORM 301

(MAIN FACILITY - WDBT, Facility Number - 10666)

WDBT

Headland, Alabama

CHANNEL 287C3 – 105.3 MHz

ERP: 0.89 kW (H&V)

HAAT: 29.0 m

APPLICANT: Gulf South Communications, Inc.

August, 2006

Prepared by:



BROADCAST TECHNICAL CONSULTANTS

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Engineering Statement
In Support of a Application
For a FM Auxiliary
WDBT, Headland, Alabama, Channel 287C3

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ENGINEERING STATEMENT

Of

Lee S. Reynolds

And

Virgle Leon Strickland

In Support of an

Application for a

FM Auxiliary

Construction Permit

WDBT

Headland, Alabama

Channel 287 – 105.3 MHz

ERP: 0.89 kW(H&V)

August, 2006

General

As broadcast technical consultants doing business as Reynolds Technical Associates (RTA), we have been authorized by Gulf South Communications, Inc. (herein referred to as “The Applicant”), to conduct engineering studies and prepare the engineering portion of an application for a construction permit that seeks to build a new FM auxiliary facility for WDBT. The new facility is to operate on channel 287 with the effective radiated power of 0.89 kilowatts with the HAAT of 29.0 meters.

WDBT’s licensee is the same entity filing the instant FM auxiliary application.

The following engineering studies and exhibits support the instant application study results.

The Proposed Site
(Exhibit E, Figure 1 and 2)

The proposed site is shown in Exhibit E, Figure 1 on a portion of a 7.5 minute U.S.G.S. quadrangle topographic map.

Exhibit E, Figure 2 is a vertical sketch of the existing antenna supporting structure with pertinent proposed elevations. The antenna structure is an existing tower less than 60 meters, therefore the FAA was not notified of the construction.

There are no proposed or authorized FM or TV transmitters that may produce receiver-induced interference within ten (10) kilometers of the proposed.

Surrounding Terrain and Predicted Contours
(Exhibit E, Figures 3 through 5)

Exhibit E, Figure 3 is a terrain averaging and service contour study showing the FCC F(50/50) 60 dBu contour of the proposed FM auxiliary.

Exhibit E, Figure 4 is a terrain averaging and service contour study showing the FCC F(50/50) 60 dBu contour of the licensed main facilities. The resulting contours for the proposed auxiliary facility and the main facility are shown in map form as Exhibit E, Figure 5.

The distance to the blanketing contour is calculated to be 1.970 kilometer (1.225 mile).

Human Exposure
(No Exhibits)

The proposed FM facility was evaluated in terms of potential radiofrequency radiation exposure at ground level in accordance with the RF Worksheet #1 [FCC 301 Worksheet 7 (Page 4 and 5)].

The panel antenna for The Applicant's proposed FM broadcast station is to be placed on an existing tower. The proposed center of radiation was rounded to 27 meters above ground, with an ERP (both horizontally and vertically) of 0.89 kW. The controlled/occupational limit, as well as the uncontrolled/general public limit is in compliance. Power density two (2) meters above ground is 0.095 mW/cm^2 , well below the maximum allowable limit of 0.2 mW/cm^2 for uncontrolled/general public exposure limits as well as the 1.0 mW/cm^2 for controlled/occupational exposure limits

Should anyone be required to climb the tower, a policy is to either reduce power or cease operation, so as to prevent hazardous exposure to radiofrequency radiation.

Environmental Impact
(No Exhibits)

A grant of the proposed construction would not constitute a major action as defined in the Commission's Rules and Regulations.

During operation, the facility will produce no chemical or significant thermal pollution, and no ionizing radiation will be generated. Areas of high intensity radiofrequency fields will be confined to the immediate area of the transmitting antenna, far above the ground and away from any human and wildlife population.

The area is not officially designated as a wilderness area or wildlife preserve and is not pending consideration. The area has no significant value in American history, architecture, archaeology, or culture, which is listed in the Register of Historic Places, and it is not eligible for listing. It is not recognized either nationally or locally for special scenic or recreational value.

Conclusion

This statement/application has been prepared for The Applicant by utilizing the latest available information, cross-checked with the Federal Communications Commission and other sources. Therefore, it is submitted that the engineering data compiled and demonstrated herein for the proposed is in compliance with Commission's Rules and Regulations at the time of this application's filing date. We welcome the opportunity to discuss with the staff of the Federal Communications Commission the engineering data contained in this application. Should any questions arise concerning the information, please contact us.

The following pages are exhibits prepared and assembled in support of the proposed.

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Statement of the Consultants

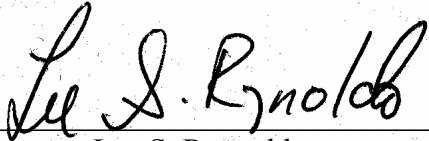
The instant engineering statement was prepared for The Applicant and supports an application for a construction permit for a FM Auxiliary for WDBT, Headland, Alabama. It was developed by RTA and may not be used for purposes other than submission to the Commission by the applicant.

It may not be reproduced in its entirety, or in part, by anyone (other than from the Commission) without the written consent of RTA.

It is prepared for The Applicant under contractual agreement, and its certification by RTA is used accordingly. If The Applicant fails in its contractual obligation, RTA reserves the right to withdraw its certification.

The information in this application is compiled from the most recent Commission and outside data. RTA is not responsible for errors resulting from incorrect data or unpublished rule and procedure changes.

For RTA:



Lee S. Reynolds

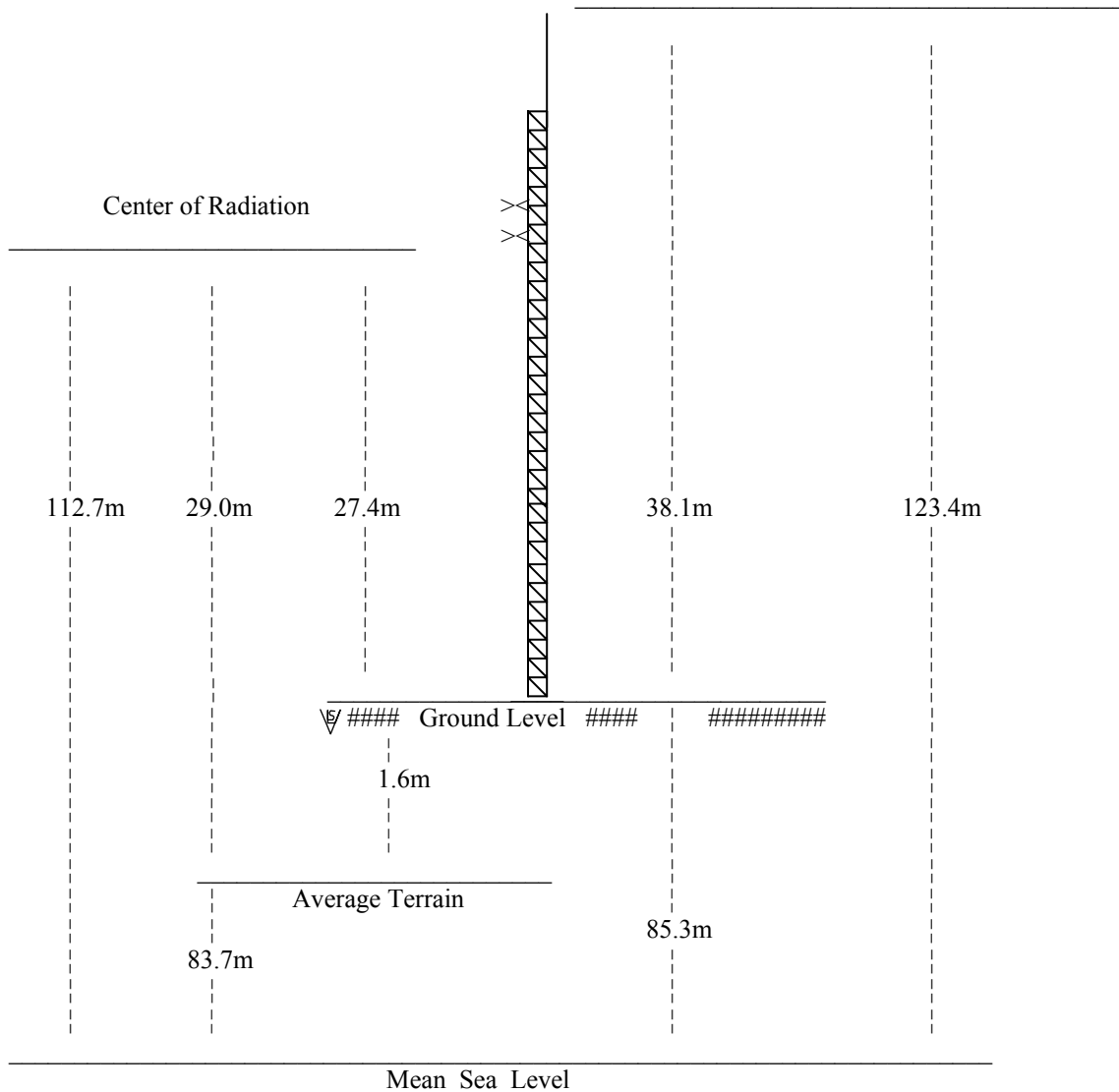
August 17th, 2006

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Copy of a portion of Midland City, AL USGS 7 1/2' quadrangle map

Engineering Statement
Application for a Construction Permit
WDBT(FM) Auxiliary, 105.3 MHz., Headland, Alabama



Proposed Location - 31° 15' 10" N. Lat. 85° 25' 51" W. Long. [NAD 27]

NOT DRAWN TO SCALE

Proposed antenna: SWR, 2 element, Model FMEC/2BB.

Engineering Statement

In Support of an Application for a Construction Permit

WDBT Auxiliary, Headland, Alabama Channel 287

Terrain-Contour Study for Auxiliary Facility

Reference Coordinates:

North Latitude: 31-15-10

West Longitude: 85-25-51

Azimuth °T.	ERP = 0.89 kW	Effective Antenna Height Meters AAT	FM - 2-6 Tables ERP (dBk)	F(50-50) Distance to 60 dBu Contour km
	Ave. Elev. 3 to 16 km Meters AMSL			
0	96.0	16.7	-0.506	9.9
5	89.3	23.4	-0.506	9.9
10	91.3	21.4	-0.506	9.9
15	91.9	20.8	-0.506	9.9
20	92.0	20.7	-0.506	9.9
25	92.8	19.9	-0.506	9.9
30	94.3	18.4	-0.506	9.9
35	95.8	16.9	-0.506	9.9
40	92.4	20.3	-0.506	9.9
45	89.7	23.0	-0.506	9.9
50	86.4	26.3	-0.506	9.9
55	80.7	32.0	-0.506	10.2
60	77.7	35.0	-0.506	10.6
65	76.8	35.9	-0.506	10.7
70	74.6	38.1	-0.506	11.0
75	75.9	36.8	-0.506	10.8
80	74.5	38.2	-0.506	11.0
85	76.1	36.6	-0.506	10.8
90	76.9	35.8	-0.506	10.7
95	78.9	33.8	-0.506	10.4
100	79.0	33.7	-0.506	10.4
105	79.8	32.9	-0.506	10.3
110	81.0	31.7	-0.506	10.1
115	81.2	31.5	-0.506	10.1
120	79.9	32.8	-0.506	10.3
125	81.2	31.5	-0.506	10.1
130	81.8	30.9	-0.506	10.0
135	83.3	29.4	-0.506	9.9
140	87.7	25.0	-0.506	9.9
145	86.3	26.4	-0.506	9.9
150	81.8	30.9	-0.506	10.0
155	81.3	31.4	-0.506	10.1

Continued on the next page

ERP =	0.89 kW	FM - 2-6 Tables		F(50-50)
Azimuth	Ave. Elev.	Effective	ERP	Distance to
°T.	3 to 16 km	Antenna Height	(dBk)	70 dBu Contour
	Meters AMSL	Meters AAT		km
<hr/>				
160	83.2	29.5	-0.506	9.9
165	82.7	30.0	-0.506	9.9
170	79.6	33.1	-0.506	10.3
175	75.0	37.7	-0.506	11.0
180	77.7	35.0	-0.506	10.6
185	79.3	33.4	-0.506	10.4
190	81.5	31.2	-0.506	10.0
195	83.9	28.8	-0.506	9.9
200	85.2	27.5	-0.506	9.9
205	87.6	25.1	-0.506	9.9
210	84.2	28.5	-0.506	9.9
215	83.7	29.0	-0.506	9.9
220	84.2	28.5	-0.506	9.9
225	82.3	30.4	-0.506	9.9
230	77.3	35.4	-0.506	10.6
235	73.8	38.9	-0.506	11.1
240	75.3	37.4	-0.506	10.9
245	76.3	36.4	-0.506	10.8
250	74.2	38.5	-0.506	11.1
255	75.2	37.5	-0.506	10.9
260	75.6	37.1	-0.506	10.9
265	73.3	39.4	-0.506	11.2
270	71.0	41.7	-0.506	11.5
275	72.1	40.6	-0.506	11.4
280	83.1	29.6	-0.506	9.9
285	87.6	25.1	-0.506	9.9
290	92.8	19.9	-0.506	9.9
295	94.0	18.7	-0.506	9.9
300	96.9	15.8	-0.506	9.9
305	99.3	13.4	-0.506	9.9
310	94.0	18.7	-0.506	9.9
315	92.6	20.1	-0.506	9.9
320	88.2	24.5	-0.506	9.9
325	92.1	20.6	-0.506	9.9
330	92.2	20.5	-0.506	9.9
335	93.7	19.0	-0.506	9.9
340	96.9	15.8	-0.506	9.9
345	98.7	14.0	-0.506	9.9
350	95.2	17.5	-0.506	9.9
355	95.6	17.1	-0.506	9.9
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Engineering Statement

In Support of an Application for a Construction Permit

WDBT Auxiliary, Headland, Alabama Channel 287

Terrain-Contour Study for Main Facility

Reference Coordinates:

North Latitude: 31-15-48

West Longitude: 85-18-24

ERP = 11.50 kW		FM - 2-6 Tables		F(50-50)
Azimuth °T.	Ave. Elev. 3 to 16 km	Effective Antenna Height Meters AAT	ERP (dBk)	Distance to 60 dBu Contour km
	Meters AMSL			
0	90.4	138.6	10.607	38.0
5	91.1	137.9	10.607	37.9
10	86.1	142.9	10.607	38.5
15	86.1	142.9	10.607	38.5
20	82.2	146.8	10.607	39.0
25	79.0	150.0	10.607	39.4
30	76.2	152.8	10.607	39.7
35	79.6	149.4	10.607	39.3
40	80.1	148.9	10.607	39.3
45	75.8	153.2	10.607	39.8
50	76.5	152.5	10.607	39.7
55	78.4	150.6	10.607	39.5
60	83.2	145.8	10.607	38.9
65	84.1	144.9	10.607	38.8
70	79.8	149.2	10.607	39.3
75	77.3	151.7	10.607	39.6
80	74.8	154.2	10.607	39.9
85	77.1	151.9	10.607	39.6
90	79.4	149.6	10.607	39.4
95	78.2	150.8	10.607	39.5
100	79.6	149.4	10.607	39.3
105	79.1	149.9	10.607	39.4
110	81.6	147.4	10.607	39.1
115	84.2	144.8	10.607	38.8
120	83.1	145.9	10.607	38.9
125	83.9	145.1	10.607	38.8
130	86.1	142.9	10.607	38.5
135	86.9	142.1	10.607	38.4
140	82.9	146.1	10.607	38.9
145	80.4	148.6	10.607	39.2
150	80.2	148.8	10.607	39.3
155	80.6	148.4	10.607	39.2

Continued on the next page

ERP =	11.50 kW	FM - 2-6 Tables		F(50-50)
Azimuth	Ave. Elev.	Effective	ERP	Distance to
°T.	3 to 16 km	Antenna Height	(dBk)	70 dBu Contour
	Meters AMSL	Meters AAT		km
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160	77.6	151.4	10.607	39.6
165	75.0	154.0	10.607	39.9
170	74.8	154.2	10.607	39.9
175	74.1	154.9	10.607	40.0
180	73.7	155.3	10.607	40.0
185	75.9	153.1	10.607	39.8
190	75.0	154.0	10.607	39.9
195	77.9	151.1	10.607	39.5
200	76.7	152.3	10.607	39.7
205	79.4	149.6	10.607	39.4
210	76.5	152.5	10.607	39.7
215	74.8	154.2	10.607	39.9
220	78.0	151.0	10.607	39.5
225	79.8	149.2	10.607	39.3
230	79.8	149.2	10.607	39.3
235	80.3	148.7	10.607	39.3
240	83.5	145.5	10.607	38.9
245	80.9	148.1	10.607	39.2
250	79.6	149.4	10.607	39.3
255	81.3	147.7	10.607	39.1
260	79.5	149.5	10.607	39.3
265	75.4	153.6	10.607	39.8
270	79.6	149.4	10.607	39.3
275	81.4	147.6	10.607	39.1
280	81.6	147.4	10.607	39.1
285	85.7	143.3	10.607	38.6
290	90.9	138.1	10.607	38.0
295	94.9	134.1	10.607	37.5
300	94.2	134.8	10.607	37.6
305	92.1	136.9	10.607	37.8
310	90.8	138.2	10.607	38.0
315	85.8	143.2	10.607	38.6
320	91.8	137.2	10.607	37.8
325	91.9	137.1	10.607	37.8
330	89.3	139.7	10.607	38.1
335	88.4	140.6	10.607	38.3
340	86.8	142.2	10.607	38.5
345	89.9	139.1	10.607	38.1
350	91.0	138.0	10.607	37.9
355	90.9	138.1	10.607	38.0
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