

WDRR (FM)

MINOR CHANGE TO MODIFY ANTENNA

Channel 230C3 – 93.9MHz – Martinez, SC

Technical Statement

This technical statement and attached exhibits has been prepared on behalf of Beasley Media Group, LLC (Beasley), Licensee of FM radio station WDRR, 230C3, Martinez, SC. In support of a construction permit to allow a modification of its 73.215 contour protection authorization to eliminate the need for a directional antenna due to other nearby changes in use of the FM spectrum. A minor modification of the station's ERP based upon reevaluation of the site determined by data collected and modified over the approximately 21 years since the allotment was last examined is also requested.

Proposed Facility Specifications

Tower ASR ASR 1018911 (Exhibit A)

Coordinates (NAD83) 33-26-17.0 N, 082-05-18.0 W (See Exhibit B for NAD 27 Conversion)

Coordinates (NAD27) 33-26-16.5 N, 082-05-18.6 W Rounded to 33-26-17 N, 82-05-19 W (No change)

Tower Overall AGL – 141.7m

Tower Site Elevation AMSL- 137.2m

Antenna COR AGL- 91m

Antenna COR AMSL- 228m (rounded)

Antenna HAAT – 132m (NED 03 sec data)

ERP- 14.5kW Non-Directional

### Allocation

The proposed WDRR facility will remain at the exact same tower and at the exact same AGL height as currently licensed. Differences in the specifications for the proposed facility result from recalculation of AMSL height based upon the published ASR information for the subject tower as well as updated HAAT calculation based upon NED 03 second data. The resulting 14.5kW at 132m HAAT maximum equivalent C3 facility was then checked against the contour protections to and from the two stations still short-spaced to WDRR under 73.207. Exhibit C1 and C2 demonstrates 73.215 compliance to WCSZ and WGFJ. The channel study used is shown below:

ComStudy 2.2 search of channel 230 (93.9 MHz Class C3) at 33-26-17.0 N, 82-05-19.0 W.

CALL	CITY	ST CHN CL	DIST	SEP	BRNG	CLEARANCE
NEW	AUGUSTA	GA 227 LP100	13.90	40.00	56.3	-26.1 2 <sup>nd</sup> Adjacent waiver
880301MD	ST. MATTHEWS	SC 230 A	125.62	142.00	78.5	-16.4 Note 1
WSCZ	WINNSBORO	SC 230 C3	149.63	153.00	46.2	-3.4 73.215 see Exhibit C1
WGFJ	CROSS HILL	SC 231 A	86.59	89.00	10.9	-2.4 73.215 See Exhibit C2
WQBT	SAVANNAH	GA 231 C0	169.56	163.00	155.5	6.6
WTHP	GIBSON	GA 232 C3	50.18	43.00	250.2	7.2
WQBT	SAVANNAH	GA 231 C0	173.59	163.00	149.3	10.6
WPEZ	JEFFERSONVILLE	GA 229 C1	157.18	144.00	241.4	13.2
WFBC-FM	GREENVILLE	SC 229 C	191.71	176.00	345.8	15.7
ADD	SAVANNAH	GA 231 C1	168.41	144.00	155.2	24.4
WZAE	WADLEY	GA 227 A	71.64	42.00	204.1	29.6

CDBS DATABASE AS OF 02/03/2015

Note 1- 230A, St. Matthews, SC is mutually exclusive to 230A Winnsboro, SC and is not found in the Table of Allotments (73.202). Facility number 54576, 230A, formerly licensed to St. Matthews, SC successfully changed community of license to Winnsboro, SC (BPH 2008411AAS, BLH 220100726ALE), therefore it is not believed that this deleted allotment requires protection.

### Community of License Coverage

WDRR is licensed to Martinez, SC. Exhibit D depicts the 70dBu community coverage contour for WDRR as proposed and demonstrates that the community of license is fully encompassed in the 70dBu f50/50 contour.

### Environmental Considerations

WDRR's antenna will remain on the same tower and at the same height as the current facility. The proposed antenna, an ERI MPX-2AE will be a non-directional full-wave spaced antenna operating from 91m AGL at 14.5kW. Based upon those specifications, and analyzed with the

FCC's FM Model for Windows, for the proposed antenna operating at 14.5kW H+V, the maximum power density at 2mAGL will be  $17.6 \mu\text{W}/\text{cm}^2$  at 60m from the tower base or 8.8% of the maximum allowable  $200\mu\text{W}/\text{cm}^2$ . There are no other sources of controlled RF Radiation on the subject tower. Because the maximum contribution of WDRR will be less than the  $200\mu\text{W}/\text{cm}^2$ , the facility is in compliance with FCC guidelines.

Respectfully Submitted

A handwritten signature in black ink, appearing to read "Bert Goldman", with a long horizontal flourish extending to the right.

Bert Goldman  
Goldman Engineering Management  
[bert@bgoldman.net](mailto:bert@bgoldman.net)  
214-395-5067

**Registration 1018911** [Map Registration](#)**Registration Detail**

Reg Number	1018911	Status	Constructed
File Number	A0834695	Constructed	01/01/1996
EMI	No	Dismantled	
NEPA	No		

**Antenna Structure**

Structure Type TOWER - Free standing or Guyed Structure used for Commu

**Location** (in NAD83 Coordinates)

Lat/Long	33-26-17.0 N 082-05-18.0 W	Address	2400 BARTON CHAPEL RD
City, State	AUGUSTA , GA		
Zip	30906	County	RICHMOND
Center of AM Array		Position of Tower in Array	

**Heights (meters)**

Elevation of Site Above Mean Sea Level	Overall Height Above Ground (AGL)
137.2	141.7
Overall Height Above Mean Sea Level	Overall Height Above Ground w/o Appurtenances
278.9	140.2

**Painting and Lighting Specifications**

FAA Chapters 4, 5, 6, 8, 13

Paint and Light in Accordance with FAA Circular Number 70/7460-1J

**FAA Notification**

FAA Study	96-ASO-1347-OE	FAA Issue Date	03/26/1996
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**Owner & Contact Information**

FRN	0015721665	Owner Entity Type	Limited Liability Company
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**Owner**

SBA Structures, LLC  
 Attention To: Edward G. Roach  
 5900 Broken Sound Pkwy NW  
 Boca Raton , FL 33487

P: (561)995-7670  
 F:  
 E: ERoach@sbsite.com

**Contact**

Roach , Edward G  
 Attention To: Edward G. Roach  
 5900 Broken Sound Pkwy NW  
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 F:  
 E: ERoach@sbsite.com

**Last Action Status**

Status	Constructed	Received	04/26/2013
Purpose	Admin Update	Entered	04/26/2013

## Output from NADCON for station WDRR (FM)

North American Datum Conversion

NAD 83 to NAD 27

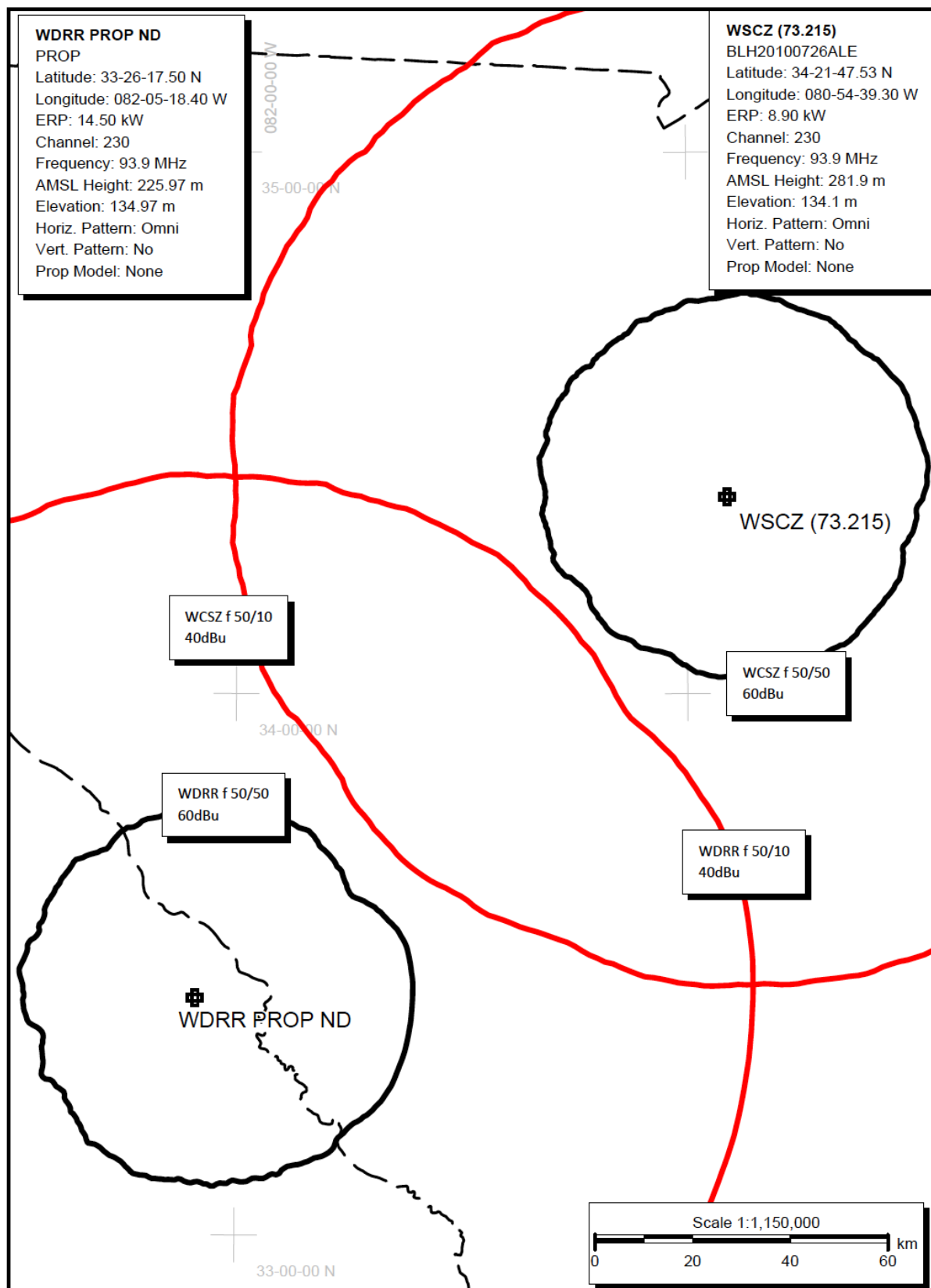
NADCON Program Version 2.11

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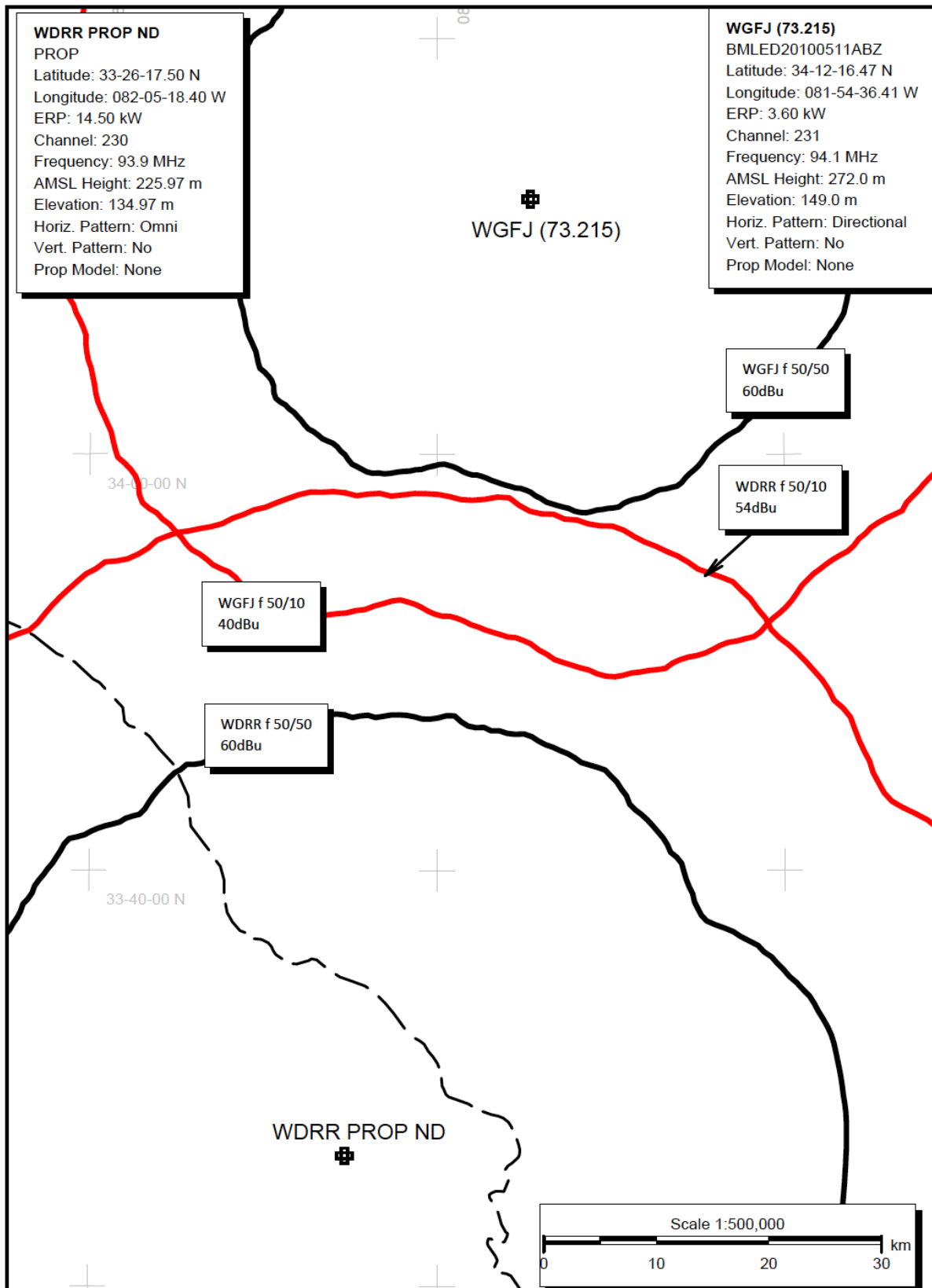
Transformation #:	1	Region:	Conus
	Latitude		Longitude
NAD 27 datum values:	33 26 16.50315		82 05 18.57379
NAD 83 datum values:	33 26 17.00000		82 05 18.00000
NAD 27 - NAD 83 shift values:	-0.49685		0.57379 (secs.)
	-15.307		14.821 (meters)
Magnitude of total shift:			21.307 (meters)



# WDRR (230C3) Contour Protection to WSCZ (230C3)- NED03 Terrain



# WDRR (230C3) Contour Protection to WGFJ (231A)- NED03 Terrain



# WDRR (230C3) Community of License Coverage, Martinez, GA

