

Technical Report
In Support of a
47 C.F.R. §73.3555
Based
Interim Contour Method
Multiple Ownership Study
for

Saga Quad States Communications, LLC

Concerning Station(s)

1. WVSC(FM).L - Port Royal, SC (BLH-20150611AAW)
 2. WLHH(FM).L - Ridgeland, SC (BLH-19940705KC)
WLHH(FM).C - Ridgeland, SC (BPH-20140424AAC)
 3. WALI(FM).L - Walterboro, SC (BLH-19930303KE)
WALI(FM).C - Burton, SC (BPH-20161020ABE)
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EXPLANATION OF REPORT: This Technical Report has been prepared to determine the number of commercial and non-commercial principal community contours associated with the proposed acquisition of WVSC(FM) - Port Royal, SC (FAC ID: 49910); WLHH(FM) - Ridgeland, SC (FAC ID: 40705); and WALI(FM) - Walterboro, SC (FAC ID: 25206), by Saga Quad States Communications, LLC. No other Saga Quad States Communications, LLC holdings, or holds by parent company Saga Communications Inc. will be affected by this acquisition.

The applicant would like to note WLHH(FM) - Ridgeland, SC presently holds License BLH-19940705KC and Construction Permit BPH-20140424AAC (also for Ridgeland, SC). WLHH(FM) is listed within the Hilton Head, SC, BIA Market Number 225, however Ridgeland, SC is not “home” to the BIA Market itself. WALI(FM).L - Walterboro, SC presently holds License BLH-19930303KE and City of License Change Construction Permit BPH-20161020ABE (for Burton, SC). WALI(FM) is not presently listed within the Hilton Head, SC, BIA Market Number 225, nor is the licensed WALI(FM) community of Walterboro, SC “home” to the BIA Market. However, the new authorized WALI(FM) Community of Burton, SC will be “home” to the Hilton Head BIA Market. Therefore WALI(FM) is not presently, but will eventually be, included within the Hilton Head, SC, BIA Market Number 225. WVSC(FM).L - Port Royal only holds License BLH-20150611AAW. WALI(FM) is presently listed within the Hilton Head, BIA Market, with its community of license also “home” to the Hilton Head BIA Market. As a result of these factors, this multiple ownership analysis has been prepared under the Interim Contour-overlap Methodology. A separate BIA Market Report for the Hilton Head, SC BIA Market Number 225 portion of the acquisition has been supplied independently.

As a further result of these factors, the three (3) total stations, two (2) of which hold valid licenses and construction permits, creates four (4) possible ownership scenarios depending on the timing or execution of the two (2) outstanding construction permits. As opposed to preparing four (4) separate interim contour method studies for the various scenarios, it has been determined the common contour which will remain relevant to, and unchanged throughout each scenario is WVSC(FM).L - Port Royal, SC. Therefore, the worst case ownership of all three (3) stations WVSC(FM), WLHH(FM) and WALI(FM) has been analyzed based on the sole market boundary of the single common WVSC(FM).L - Port Royal, SC contour.

EXPLANATION OF METHODOLOGY: The facilities and results reported herein were taken from current copies of AM and FM computer databases as prepared by the FCC and supplied by V-Soft Communications, LLC. The facilities listed above serve as the basis for the respective principal community contours studied. The accuracy of the results of this study is understood to be limited to the accuracy of these databases. The FCC databases give no indication of licensed facilities that may be inoperative, construction permit facilities that may now be operating under program test authority (but have not yet been issued a license) or facilities which may have been licensed since the last update. Therefore, some stations may have been included or excluded erroneously. However, unless otherwise indicated, all licensed facilities known to be inoperative and all known applications and construction permit facilities, have been eliminated from consideration in this study.

For AM stations, Map M3 soil conductivity values and the authorized licensed transmitting facilities served as the basis for the computation of the predicted 5.0 mV/m groundwave contour in accordance with §73.183 of the FCC Rules. The distance to the contour was computed for seventy-two (72) equally spaced azimuths beginning with 0° True. For FM stations, the authorized Center of Radiation and ERP values were utilized to compute the predicted 3.16 mV/m (70 dBμ) contour as provided in §73.313 of the Rules. The predicted FM contours shown in this report are based on the use of seventy-two (72) equally spaced terrain radials beginning with 0° True and assume NED 03 Second Terrain data.

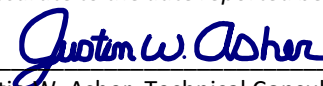
As stated before, there will be one (1) worst case market associated with this proposal consisting of WVSC(FM), WLHH(FM) and WALI(FM). However the market has been defined, in accordance with §73.3555 of the FCC Rules, as the area within the total perimeter formed by only the principal community contour of WVSC(FM). Due to the presence of the WLHH(FM) and WALI(FM) license(s) and construction permit(s), it is believed limiting the defined market boundary to solely to the common WVSC(FM) contour will insure an overabundance of compliance with §73.3555, regardless of any future WLHH(FM) and WALI(FM) action.

EXPLANATION OF RESULTS: The three (3) stations, under common control and relevant for this ownership group, have been noted in **Exhibit 1.0**. As stated before, no other common holdings are affected by this acquisition. To aid in identifying the respective contours, currently licensed FM contours have been shown with solid purple lines. Associated construction permit facilities have been shown in light blue dashed lines. The worst case common overlap area has been designated as well.

For the worst case market, the market defining contours have been shown in **Exhibit 2.0** of this report along with the principal community contours entering the market. The defining contours have been shown with green lines on this map. AM contours entering the market have been denoted in orange lines. FM contour entering the market have been shown in purple lines. As stated before, the contours shown represent enough stations to satisfy the minimum requirement of the Rules. Co-owned stations entering the market, but not defining the market have been omitted. In this instance, there are no co-owned stations entering, but not defining the market.

Under the current rules, the market falls at least within the minimum limitations set forth in §73.3555 (a)(1)(iii): *In a radio market with between 15 and 29 (inclusive) full-power, commercial and noncommercial radio stations, not more than 6 commercial radio stations in total and not more than 4 commercial stations in the same service (AM or FM).* The principal community contours of at least thirteen (13) other stations entering the market are shown in **Exhibit 2.0**. Including the three (3) FM station(s) which define the market, there are at least sixteen (16) aural services in this market. **Exhibit 2.1** lists the facilities of the individual stations used in this report.

CERTIFICATION OF TECHNICAL CONSULTANT: *I declare, under penalty of perjury, that the contents of this report are true and accurate to the best of my knowledge and belief. I further certify I have over eighteen years of experience as a broadcast technical consultant before the Federal Communications Commission ("the FCC"); and am familiar with the Code of Federal Regulations Title 47 ("the Rules") as pertaining to this report and its contents herein. The underlying data utilized in this report was taken directly from FCC databases or indirectly through third party software vendors securing data directly from FCC databases. This firm cannot be held liable for errors or omissions resulting from the underlying data. The information contained herein is believed accurate to the date reported below.*



Justin W. Asher, Technical Consultant
May 10, 2017

Exhibit 1.0 Map of Commonly Owned Stations

- FM Station License(s) to be Aquired/Modified
- FM Station Construction Permit(s) to be Aquired/Modified

WVSC(FM).L - Port Royal SC
WLHH(FM).L - Ridgeland SC
WLHH(FM).C - Ridgeland SC
WALI(FM).L - Walterboro SC
WALI(FM).C - Burton SC

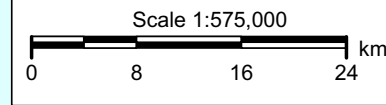
AM Contours: Daytime 5.0 mV/m
Map M3 Ground Conductivity

FM Contours: 70 dBμ F(50:50)
NED 03 sec Terrain Database

Hilton Head, SC
BIA Market 225

Worst Case Common
Overlap Area

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V-Soft Communications LLC ©

Exhibit 2.0

Map of Stations

Entering the Market

- FM Station(s) Entering the Market
 - AM Station(s) Entering the Market
 - Stations Comprising the Market
 - Market Defining (Common) Contour*
- *Adjusted for "worst case" scenario

AM Contours: Daytime 5.0 mV/m
Map M3 Ground Conductivity

FM Contours: 70 dBμ F(50:50)
NED 03 sec Terrain Database

WVSC(FM).L - Port Royal SC
WLHH(FM).L - Ridgeland SC
WLHH(FM).C - Ridgeland SC
WALI(FM).L - Walterboro SC
WALI(FM).C - Burton SC

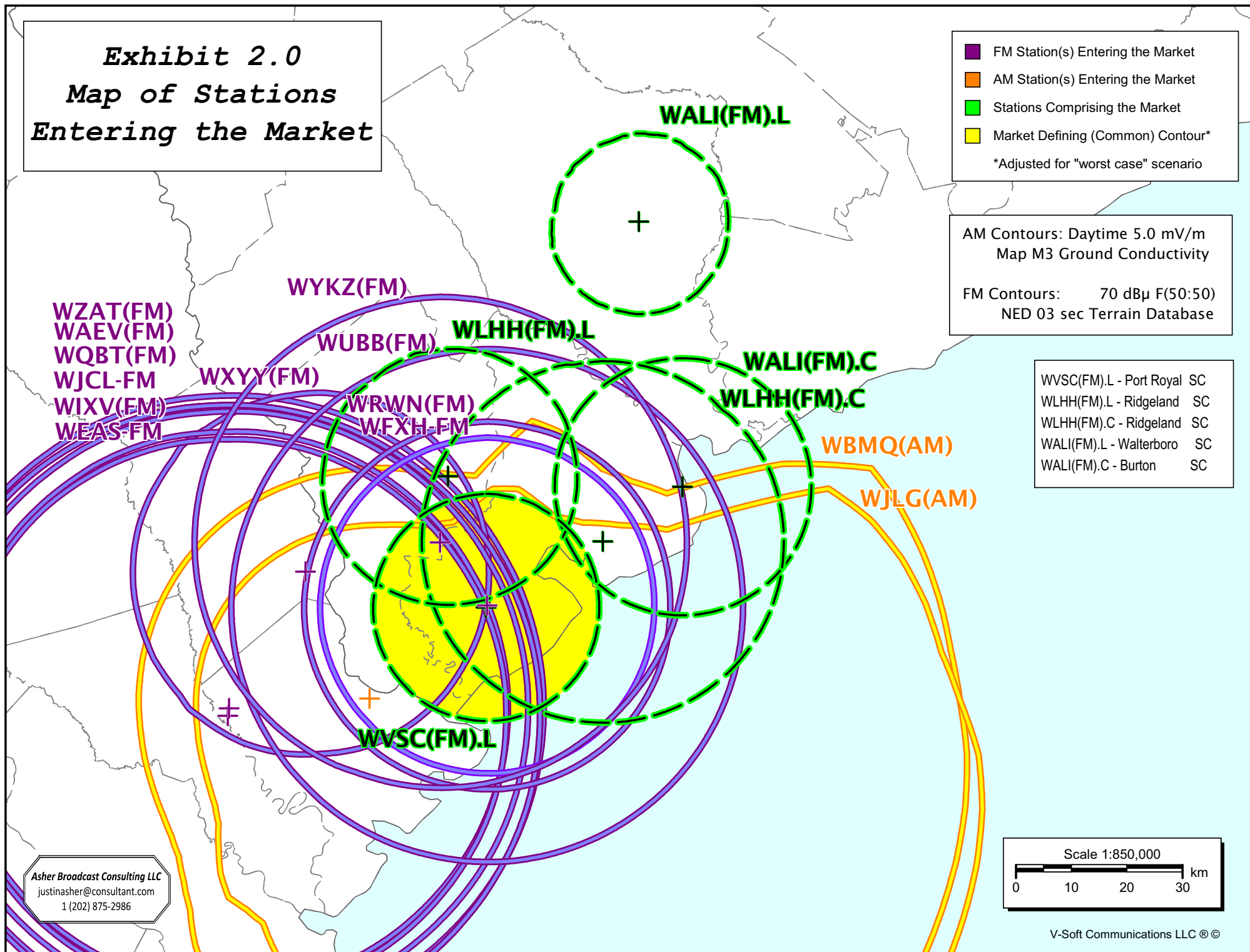


Exhibit 2.1

Tabulation of Select Stations Entering the Market

Total number of overlapping contours: 16

Reference:

Callsign	Type	Chan	City	St	File Number	Dist (km)	Azi (deg)
WVSC (FM) .L	FM	276C3	Port Royal	SC	BLH20150611AAW	0.0	0.0
WLHH (FM) .L	FM	285C3	Ridgeland	SC	BLH19940705KC	24.5	343.7
WLHH (FM) .C	FM	285C2	Ridgeland	SC	BPH20140424AAC	24.1	60.4
WALI (FM) .L	FM	229A	Walterboro	SC	BLH19930303KEE	74.8	21.4
WALI (FM) .C	FM	229C3	Burton	SC	BPH20161020ABE	41.4	58.3

Overlapping Contours:

Callsign	Type	Chan	City	St	File Number	Dist (km)	Azi (deg)
WYKZ (FM)	FM	254C1	Beaufort	SC	BLH19990201KB	14.3	324.6
WUBB (FM)	FM	295C1	Bluffton	SC	BLH19961227KE	0.4	28.4
WRWN (FM)	FM	300C2	Port Royal	SC	BMLH20030218AAP	0.4	28.4
WFXH-FM	FM	291C2	Hilton Head Island	SC	BLH19961227KA	0.4	28.4
WEAS-FM	FM	226C1	Springfield	GA	BLH20051201CGX	50.3	247.1
WQBT (FM)	FM	231C0	Savannah	GA	BMLH20170223AAE	50.3	247.1
WIXV (FM)	FM	238C1	Savannah	GA	BLH20030514ADV	49.6	248.4
WJCL-FM	FM	243C	Savannah	GA	BMLH20110307ACU	49.6	248.4
WAEV (FM)	FM	247C0	Savannah	GA	BMLH20170223AAF	50.3	247.1
WXYX (FM)	FM	261C2	Rincon	GA	BLH20060419AAG	33.1	281.0
WZAT (FM)	FM	271C0	Tybee Island	GA	BLH20110830ABO	49.6	248.4
WJLG (AM)	AM	900	SAVANNAH	GA	BL19950209AD	26.6	231.7
WBMQ (AM)	AM	630	SAVANNAH	GA	BL20040913ADI	26.6	231.8

Distance and bearing calculations from coordinates: 32-13-25 N, 080-51-00 W

Duopoly Options:

TV: Not Included

FM: 3.16 mV/m (70 dBu)

AM: 5.0 mV/m

Stations more than 92 km from the common area were excluded.