

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

for

Saga Communications of Tuckessee, LLC
Clarksville, TN / Fort Campbell, KY Region
"Interim Method Market A"

WKFN(AM) - CLARKSVILLE, TN (Facility ID: 65202)
WNZE(AM) - CLARKSVILLE, TN (Facility ID: 12495)
WQEZ(AM) - FORT CAMPBELL, KY (Facility ID: 61260)
WCVQ(FM) - FORT CAMPBELL, KY (Facility ID: 61253)
WRND(FM) - OAK GROVE, KY (Facility ID: 14915)
WVVR(FM) - HOPKINSVILLE, KY (Facility ID: 73970)
WZZP(FM) - HOPKINSVILLE, KY (Facility ID: 83979)

EXPLANATION OF REPORT: This Technical Report has been prepared to determine the number of commercial and non-commercial principal community contours associated with the Transfer/Assignment applications for the below Saga Communications of Tuckesse, LLC stations. These stations comprise the entirety of the Saga Communications of Tuckesse, LLC holdings. In this instance, there will be one (1) interim method market and no BIA markets associated with this grouping. Therefore, this common report has been prepared to address the below seven (7) Saga Communications of Tuckesse, LLC facilities. Ownership studies for other holdings associated with parent company Saga Communications, Inc., have been prepared separately. This Interim Contour-Overlap Methodology Study has been prepared to address the unrated market portions for each filing.

Saga Communications of Tuckesse, LLC, presently holds a broadcast interest in seven (7) total aural services relevant to these Transfer/Assignment filings. Saga holdings not overlapping these groupings need not be discussed herein. Concerning these relevant holdings, there will be one (1) unique and distinct interim method market within this affected ownership group. "Market A" is comprised of seven (7) stations as follows:

"Market A"

<u>CALL SIGN</u>	<u>CH/FREQ</u>	<u>CITY</u>	<u>STATE</u>	<u>FILE NUMBER</u>
WKFN (AM)	540	CLARKSVILLE	TN	BL20111209KKQ
WNZE (AM)	1400	CLARKSVILLE	TN	BL20210309AAE
WQEZ (AM)	1370	FORT CAMPBELL	KY	BL19990603DF
WCVQ (FM)	300C1	Fort Campbell	KY	0000155437
WRND (FM)	232A	Oak Grove	KY	BLH20040520AEY
WVVR (FM)	262C0	Hopkinsville	KY	BLH19900625KA
WZZP (FM)	248A	Hopkinsville	KY	BLH20001127AAB

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 these studies 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 47 C.F.R. Section 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 47 C.F.R. Section 73.313 of the Rules. The predicted FM contours shown in this report are based on 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) unique and distinct interim method market within this affected ownership group. The interim market has been defined, in accordance with 47 C.F.R. Section 73.3555 of the FCC Rules, as the area within the total perimeter formed by the combined principal community contours of each relevant interim market as noted above.

EXPLANATION OF RESULTS: The seven (7) stations, under common control and relevant for this ownership group, have been noted in **Exhibit 1.0**. As stated before, no other Saga Communications of Tuckessee, LLC holdings, or any other holdings of parent company Saga Communications, Inc., are affected by these stations. To aid in identifying the respective contours, currently controlled AM contours have been shown with solid light red lines. Currently controlled FM contours have been shown with varying-colored solid lines. The "Market A" common overlap area has been designated as well.

For "Market A", the market defining contours have been shown in **Exhibit 2.0** of this report along with a total number of principal community contours entering the market. The defining contours have been shown with yellow lines on this map. AM contours entering the market have been denoted in blue lines. FM contour entering the market have been shown in red lines. As stated before, the contours shown represent the total number of stations entering or defining the market. Co-owned stations entering the market, but not defining the market have been omitted. Under the current rules, the market falls within the minimum limitations set forth in §73.3555(a)(1)(i): *In a radio market with 45 or more full-power, commercial and noncommercial radio stations, not more than 8 commercial radio stations in total and not more than 5 commercial stations in the same service (AM or FM) may be owned.* The principal community contours of seventy-two (72) other stations entering the market are shown in **Exhibit 2.0**. Including the three (3) AM and four (4) FM station(s) which define the market, there are seventy-nine (79) 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 twenty-four 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
July 7, 2023

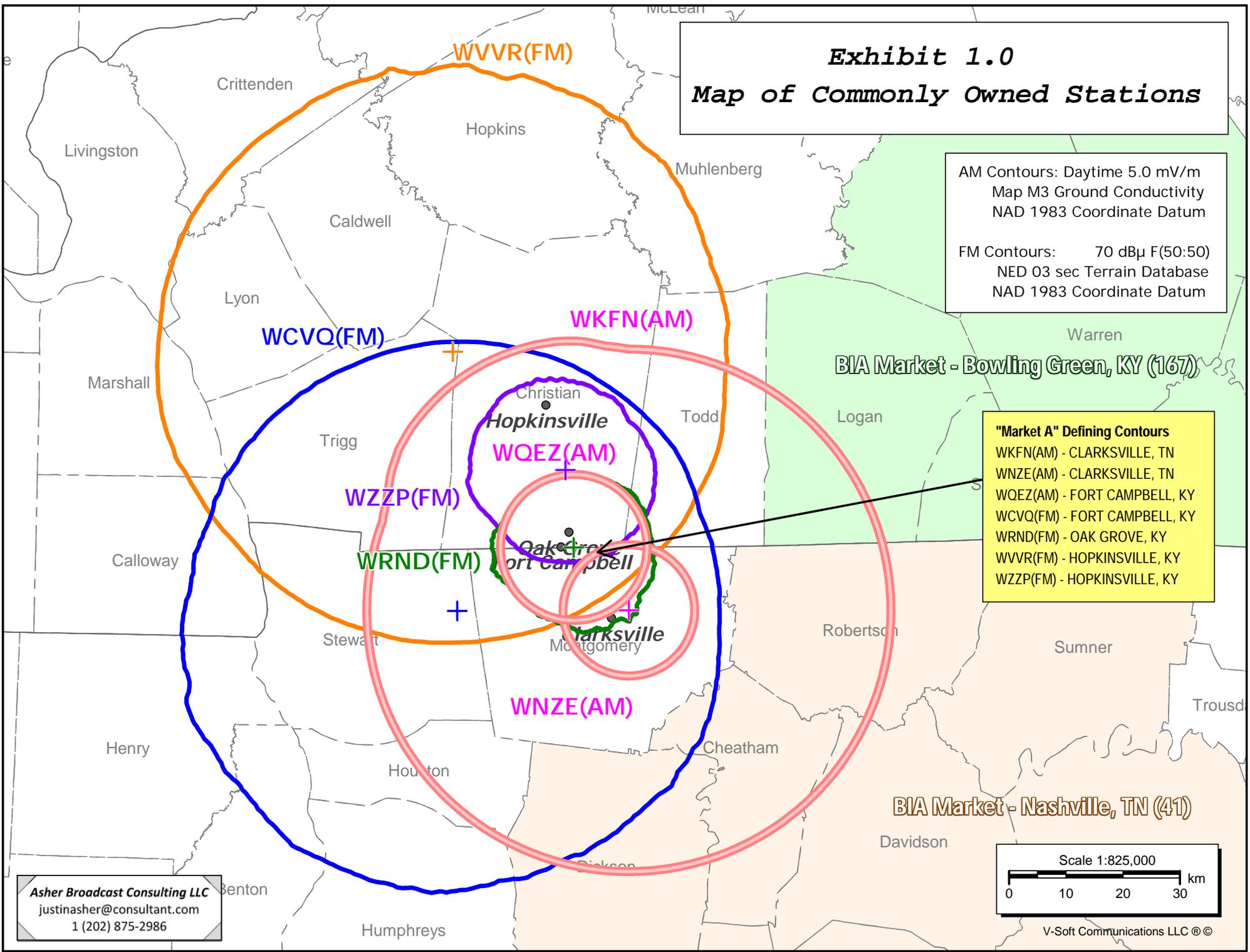
Exhibit 1.0 Map of Commonly Owned Stations

AM Contours: Daytime 5.0 mV/m
Map M3 Ground Conductivity
NAD 1983 Coordinate Datum

FM Contours: 70 dBμ F(50:50)
NED 03 sec Terrain Database
NAD 1983 Coordinate Datum

"Market A" Defining Contours

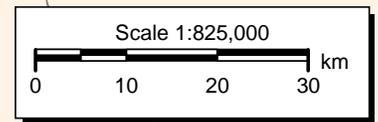
- WKFN(AM) - CLARKSVILLE, TN
- WNZE(AM) - CLARKSVILLE, TN
- WQEZ(AM) - FORT CAMPBELL, KY
- WCVQ(FM) - FORT CAMPBELL, KY
- WRND(FM) - OAK GROVE, KY
- WVVR(FM) - HOPKINSVILLE, KY
- WZZP(FM) - HOPKINSVILLE, KY



BIA Market - Bowling Green, KY (167)

BIA Market - Nashville, TN (41)

Asher Broadcast Consulting LLC
justinasher@consultant.com
1 (202) 875-2986



V-Soft Communications LLC ©

Exhibit 2.0 Map of Stations Entering "Market A"

AM Contours: Daytime 5.0 mV/m
Map M3 Ground Conductivity
NAD 1983 Coordinate Datum

FM Contours: 70 dBµ F(50:50)
NED 03 sec Terrain Database
NAD 1983 Coordinate Datum

- FM Station(s) Entering "Market A"
- AM Station(s) Entering "Market A"
- "Market A" Defining Contours

"Market A" Defining Contours

- WKFN(AM) - CLARKSVILLE, TN
- WNZE(AM) - CLARKSVILLE, TN
- WQEZ(AM) - FORT CAMPBELL, KY
- WCVO(FM) - FORT CAMPBELL, KY
- WRND(FM) - OAK GROVE, KY
- WVVR(FM) - HOPKINSVILLE, KY
- WZZP(FM) - HOPKINSVILLE, KY

Asher Broadcast Consulting LLC
justinasher@consultant.com
1 (202) 875-2986

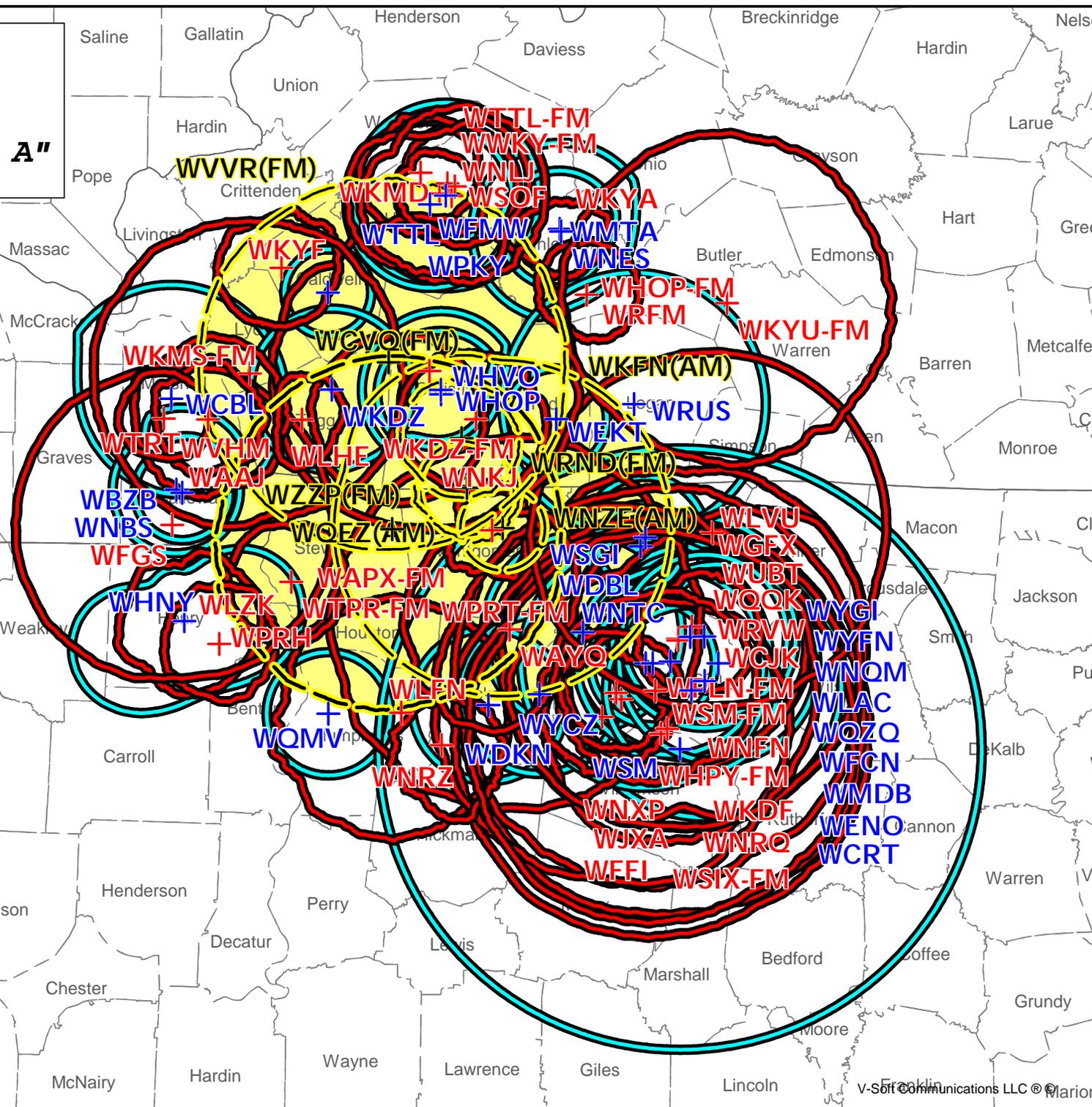
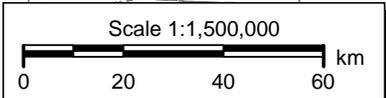


Exhibit 2.1

Tabulation of Select Stations Entering "Market A"

Total number of overlapping contours: 79

Reference:

Callsign	Type	Chan	City	St	File Number	Dist (km)	Azi (deg)
WKFN(AM)	AM	540	CLARKSVILLE	TN	BL20111209KKQ	0.0	0.0
WNZE(AM)	AM	1400	CLARKSVILLE	TN	BL20210309AAE	0.0	0.0
WQEZ(AM)	AM	1370	FORT CAMPBELL	KY	BL19990603DF	14.6	318.7
WCVQ(FM)	FM	300C1	Fort Campbell	KY	0000155437	30.1	269.8
WRND(FM)	FM	232A	Oak Grove	KY	BLH20040520AEY	14.7	318.7
WVVR(FM)	FM	262C0	Hopkinsville	KY	BLH19900625KA	54.8	325.8
WZZP(FM)	FM	248A	Hopkinsville	KY	BLH20001127AAB	26.9	335.7

Overlapping Contours:

Callsign	Type	Chan	City	St	File Number	Dist (km)	Azi (deg)
WTRT	FM	201A	Benton	KY	BLED20190419AAN	97.1	288.2
WLHE	FM	204A	Cadiz	KY	0000210493	62.1	298.7
WKYU-FM	FM	205C1	Bowling Green	KY	BMLLED20070507AFC	86.6	45.2
WNKJ	FM	207C3	Hopkinsville	KY	BLED19810813AB	30.5	346.5
WAAJ	FM	209A	Benton	KY	BLED20030131ADY	85.6	290.5
WSOF	FM	210C2	Madisonville	KY	BLED19920304KA	91.5	351.5
WVHM	FM	213C3	Benton	KY	BLED20120208ADQ	85.6	290.5
WKMD	FM	215C2	Madisonville	KY	BLED20100308ACQ	92.7	349.5
WKMS-FM	FM	217C1	Murray	KY	BLED19990721KC	80.7	301.7
WNLJ	FM	219A	Madisonville	KY	0000204868	95.1	351.1
WKYF	FM	221A	Fredonia	KY	BLED20080605ABV	93.0	319.9
WHOP-FM	FM	254C1	Hopkinsville	KY	BLH20041018ACH	47.2	335.3
WUBT	FM	266C1	Russellville	KY	BLH19900328KC	57.2	91.5
WFGS	FM	279C1	Murray	KY	BLH19870724KA	90.0	270.8
WRFM	FM	280A	Drakesboro	KY	BLH20000824AAB	67.6	20.1
WKY-FM	FM	285A	Providence	KY	BLH20170405AAX	99.3	347.3
WKYA	FM	288A	Greenville	KY	0000197749	82.3	11.4
WKDZ-FM	FM	293C3	Cadiz	KY	BLH20011115ADI	40.5	316.9
WTTL-FM	FM	295A	Madisonville	KY	BMLH19980407KB	94.0	352.3
WAYQ	FM	202C2	Clarksville	TN	BLED20031020ABN	27.6	176.3
WPLN-FM	FM	212C	Nashville	TN	BMLLED20181105ACD	70.7	142.5
WPRH	FM	215A	Paris	TN	BLED20090805AAM	83.4	248.1
WNXP	FM	216C2	Nashville	TN	BMLLED20030214ABG	60.7	137.0
WNRZ	FM	218C3	Dickson	TN	0000153189	61.4	196.0
WAPX-FM	FM	220A	Clarksville	TN	BLED20050303AAB	2.9	259.1
WQQK	FM	221A	Goodlettsville	TN	BLH20130125ACM	58.1	117.7
WJXA	FM	225C	Nashville	TN	BLH19861204KB	56.7	145.5
WFFI	FM	229A	Kingston Springs	TN	BLH19991116AIQ	54.5	145.7
WLZK	FM	231C3	Paris	TN	BLH19960209KC	90.3	254.0
WHPY-FM	FM	233A	Bellevue	TN	BLH20190219ABP	58.1	152.4
WSM-FM	FM	238C	Nashville	TN	BLH20111011AKK	60.7	137.0
WCJK	FM	242C1	Murfreesboro	TN	BLH20020514AAN	56.8	122.8
WLVU	FM	246C2	Belle Meade	TN	BLED20180212AAU	56.8	122.8
WSIX-FM	FM	250C0	Nashville	TN	BMLH20050826ABE	70.7	140.8
WTPR-FM	FM	269A	Mckinnon	TN	BLH20050722ADF	59.4	256.0
WPRT-FM	FM	273C1	Pegram	TN	BLH20031124ASU	27.6	176.3
WKDF	FM	277C0	Nashville	TN	BLH19820818AB	70.6	142.5
WGFX	FM	283C1	Gallatin	TN	BLH20020909ABA	56.4	122.4
WLFN	FM	286C2	Waverly	TN	BLH19890619KB	57.3	209.1
WNRQ	FM	290C	Nashville	TN	BLH19831212AN	70.6	142.5
WNFN	FM	294C2	Franklin	TN	0000106493	70.7	140.8
WRVW	FM	298C1	Lebanon	TN	BLH20040607ADK	56.8	122.8

Exhibit 2.1

Tabulation of Select Stations Entering "Market A"

Overlapping Contours (continued):

Callsign	Type	Chan	City	St	File Number	Dist (km)	Azi (deg)
WSM	AM	650	NASHVILLE	TN	BL8315	77.1	141.4
WRUS	AM	610	RUSSELLVILLE	KY	BL19971212KB	49.2	46.9
WYGI	AM	1430	MADISON	TN	BML20221107AAF	62.4	118.5
WDBL	AM	1590	SPRINGFIELD	TN	BL19920702AD	37.9	97.8
WENO	AM	760	NASHVILLE	TN	BL19990104AC	67.7	130.9
WYFN	AM	980	NASHVILLE	TN	BL13735	69.3	122.2
WNQM	AM	1300	NASHVILLE	TN	BMML20130806ACL	53.6	133.6
WCRT	AM	1160	DONELSON	TN	BL19850918AE	69.0	127.3
WSGI	AM	1100	SPRINGFIELD	TN	BL19880617AB	39.0	94.0
WFCN	AM	1200	NASHVILLE	TN	BL20211019AAK	55.0	132.2
WMDB	AM	880	NASHVILLE	TN	BL20100201AHP	58.4	128.7
WLAC	AM	1510	NASHVILLE	TN	BL20101004ADH	59.1	120.3
WQZQ	AM	830	GOODLETTSVILLE	TN	BL20110329AED	62.3	118.5
WEKT	AM	1070	ELKTON	KY	BL20010629ACH	33.1	26.4
WHVO	AM	1480	HOPKINSVILLE	KY	BL12527	40.1	335.5
WYCZ	AM	1030	WHITE BLUFF	TN	BL19820709AB	46.3	167.7
WKDZ	AM	1110	CADIZ	KY	BL19880720AB	59.9	309.3
WHOP	AM	1230	HOPKINSVILLE	KY	BL19790716AB	41.2	336.2
WDKN	AM	1260	DICKSON	TN	BL19850125AA	48.3	184.8
WNTC	AM	790	ASHLAND CITY	TN	BL20061227ACC	35.8	142.6
WQMV	AM	1060	WAVERLY	TN	BL20061227ACB	69.3	223.5
WHNY	AM	1000	PARIS	TN	BL19920520AA	90.3	254.0
WBZB	AM	1130	MURRAY	KY	BL20030929ATQ	89.5	277.0
WCBL	AM	1290	BENTON	KY	BL19980713AA	96.9	291.6
WNBS	AM	1340	MURRAY	KY	BL11743	87.8	276.6
WTTL	AM	1310	MADISONVILLE	KY	BL20201015AAJ	90.3	347.6
WPKY	AM	1580	PRINCETON	KY	BL7822	79.9	323.6
WMTA	AM	1380	CENTRAL CITY	KY	BL20190130ABL	82.9	11.0
WFMW	AM	730	MADISONVILLE	KY	BL20000204ABP	91.9	350.6
WNES	AM	1050	CENTRAL CITY	KY	BL19831219AC	82.3	11.4

Distance and bearing calculations from coordinates: 36-32-31 N, 087-19-32 W

Duopoly Options:

TV: Not Included

FM: 3.16 mV/m (70 dBu); Include NCE

AM: 5.0 mV/m

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

- * Co-owned stations entering, but not defining the market, have been excluded.
- * Stations more than 92 km from the common area have been excluded.