

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

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

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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)

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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 Transfer/Assignment applications for the below Saga Communications of Tuckessee, LLC stations. These stations comprise the entirety of the Saga Communications of Tuckessee, 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 Tuckessee, 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 Tuckessee, 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:

| <b>"Market A"</b> |                |               |              |                    |  |
|-------------------|----------------|---------------|--------------|--------------------|--|
| <b>CALL SIGN</b>  | <b>CH/FREQ</b> | <b>CITY</b>   | <b>STATE</b> | <b>FILE NUMBER</b> |  |
| 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

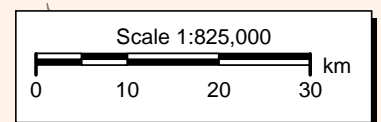
FM Contours: 70 dBμ F(50:50)  
NED 03 sec Terrain Database  
NAD 1983 Coordinate Datum

BIA Market - Bowling Green, KY (167)

## "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 - Nashville, TN (41)



# Exhibit 2.0

## Map of Stations Entering "Market A"

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

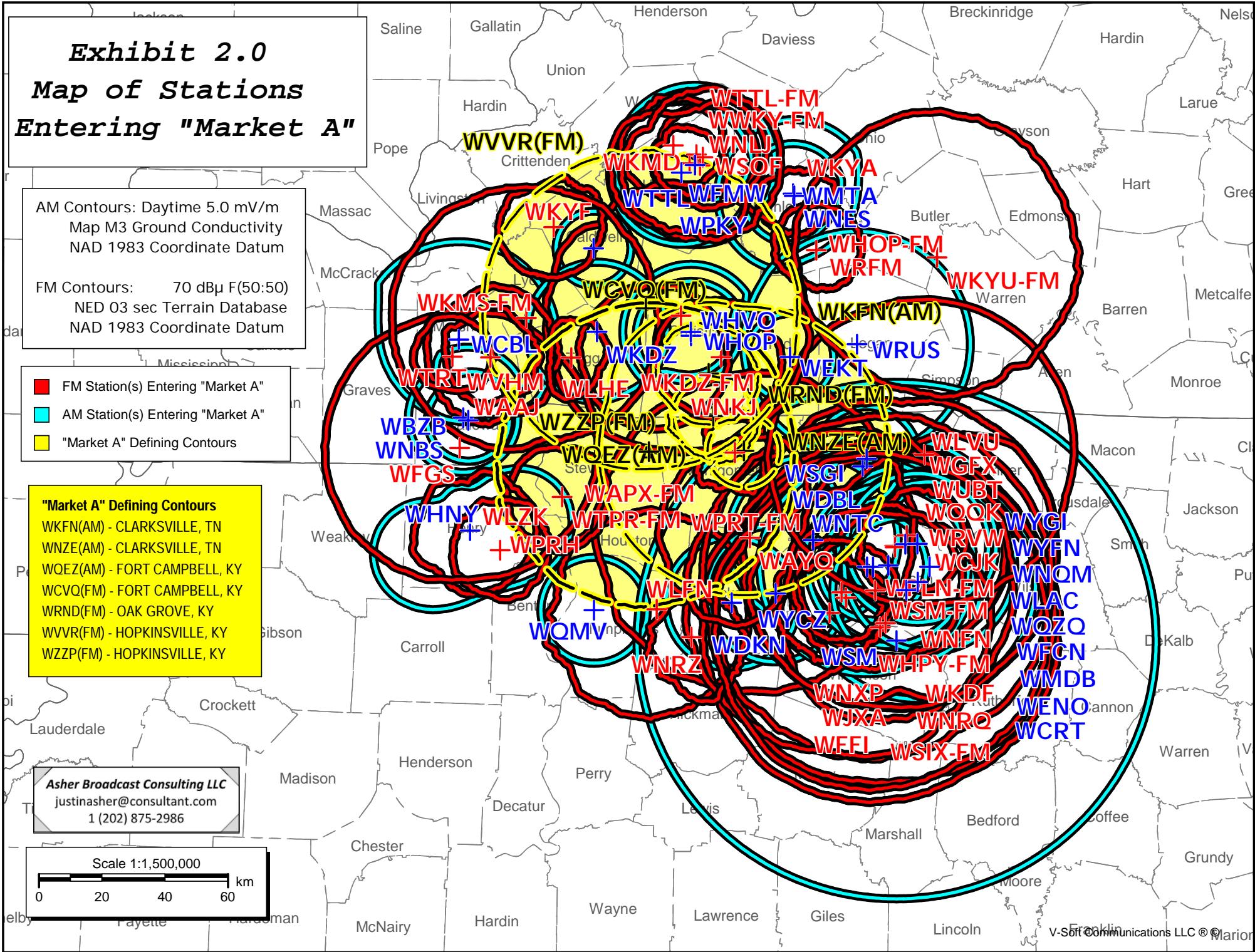
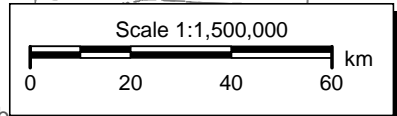
FM Contours: 70 dBµ F(50:50)  
NED 03 sec Terrain Database  
NAD 1983 Coordinate Datum

- 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

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# ***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 | BMLD20070507AFC | 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 | BMLD20181105ACD | 70.7      | 142.5     |
| WPRH     | FM   | 215A  | Paris            | TN | BLED20090805AAM | 83.4      | 248.1     |
| WNXP     | FM   | 216C2 | Nashville        | TN | BMLD20030214ABG | 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     |
| WLJU     | FM   | 246C2 | Belle Meade      | TN | BLED20180212AAU | 56.8      | 122.8     |
| WSIX-FM  | FM   | 250C0 | Nashville        | TN | BMLH20050826ABB | 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.**