

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

for

Saga Communications of Illinois, LLC
Springfield, IL & Champaign Springfield IL Regions
“Interim Method Markets A & B”

WTAX(AM) - SPRINGFIELD, IL (Facility ID: 9961)
WDBR(FM) - SPRINGFIELD, IL (Facility ID: 9960)
WLFZ(FM) - SPRINGFIELD, IL (Facility ID: 58549)
WTAX-FM - SHERMAN, IL (Facility ID: 9964)
WYMG(FM) - CHATHAM, IL (Facility ID: 58537)
WIXY(FM) - CHAMPAIGN, IL (Facility ID: 58539)
WLRW(FM) - CHAMPAIGN, IL (Facility ID: 58542)
WREE(FM) - URBANA, IL (Facility ID: 41592)
WYXY(FM) - SAVOY, IL (Facility ID: 28195)

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 Illinois, LLC stations. These stations comprise the entirety of the Saga Communications of Illinois, LLC holdings. In this instance, there will be two (2) interim method markets and no BIA markets associated with this grouping. Therefore, this common report has been prepared to address the below nine (9) Saga Communications of Illinois, 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 Illinois, LLC, presently holds a broadcast interest in nine (9) 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 two (2) unique and distinct interim method markets within this affected ownership group. "Market A" is comprised of five (5) stations. "Market B" is comprised of four (4) stations. Each Market is as follows:

"Market A"

<u>CALL SIGN</u>	<u>CH/FREQ</u>	<u>CITY</u>	<u>STATE</u>	<u>FILE NUMBER</u>
WTAX (AM)	1240	SPRINGFIELD	IL	BL9041
WDBR (FM)	279B	Springfield	IL	BMLH20120629AAB
WLFZ (FM)	270B	Springfield	IL	BMLH19930729KA
WTAX-FM	230B1	Sherman	IL	BLH20041206AAT
WYMG (FM)	263B	Chatham	IL	BMLH20120511ABJ

"Market B"

<u>CALL SIGN</u>	<u>CH/FREQ</u>	<u>CITY</u>	<u>STATE</u>	<u>FILE NUMBER</u>
WIXY (FM)	262B1	Champaign	IL	BMLH20081215ABB
WLRW (FM)	233B	Champaign	IL	BLH20051107ABO
WREE (FM)	223B1	Urbana	IL	BLH20010717AAA
WYXY (FM)	256B	Savoy	IL	BLH20090317AAM

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 two (2) unique and distinct interim method markets within this affected ownership group. The interim markets have 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 interim market as noted above.

EXPLANATION OF RESULTS: The nine (9) stations, under common control and relevant for these ownership groupings, have been noted in **Exhibit 1.0**. As stated before, no other Saga Communications of Illinois, 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 & B” common overlap areas have been designated as well.

“Market A”				
CALL SIGN	CH/FREQ	CITY	STATE	FILE NUMBER
WTAX (AM)	1240	SPRINGFIELD	IL	BL9041
WDBR (FM)	279B	Springfield	IL	BMLH20120629AAB
WLFZ (FM)	270B	Springfield	IL	BMLH19930729KA
WTAX-FM	230B1	Sherman	IL	BLH20041206AAT
WYMG (FM)	263B	Chatham	IL	BMLH20120511ABJ

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)(ii): *In a radio market with between 30 and 44 (inclusive) full-power, commercial and noncommercial radio stations, not more than 7 commercial radio stations in total and not more than 4 commercial stations in the same service (AM or FM) may be owned.* The principal community contours of thirty-three (33) other stations entering the market are shown in **Exhibit 2.0**. Including the one (1) AM and four (4) FM station(s) which define the market, there are thirty-eight (38) aural services in this market. **Exhibit 2.1** lists the facilities of the individual stations used in this report.

"Market B"

<u>CALL SIGN</u>	<u>CH/FREQ</u>	<u>CITY</u>	<u>STATE</u>	<u>FILE NUMBER</u>
WIXY (FM)	262B1	Champaign	IL	BMLH20081215ABB
WLRW (FM)	233B	Champaign	IL	BLH20051107ABO
WREE (FM)	223B1	Urbana	IL	BLH20010717AAA
WYXY (FM)	256B	Savoy	IL	BLH20090317AAM

For "Market B", the market defining contours have been shown in **Exhibit 3.0** 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)(ii): *In a radio market with between 30 and 44 (inclusive) full-power, commercial and noncommercial radio stations, not more than 7 commercial radio stations in total and not more than 4 commercial stations in the same service (AM or FM) may be owned.* The principal community contours of thirty-two (32) other stations entering the market are shown in **Exhibit 3.0**. Including the four (4) FM station(s) which define the market, there are thirty-six (36) aural services in this market. **Exhibit 3.1** 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 5, 2023

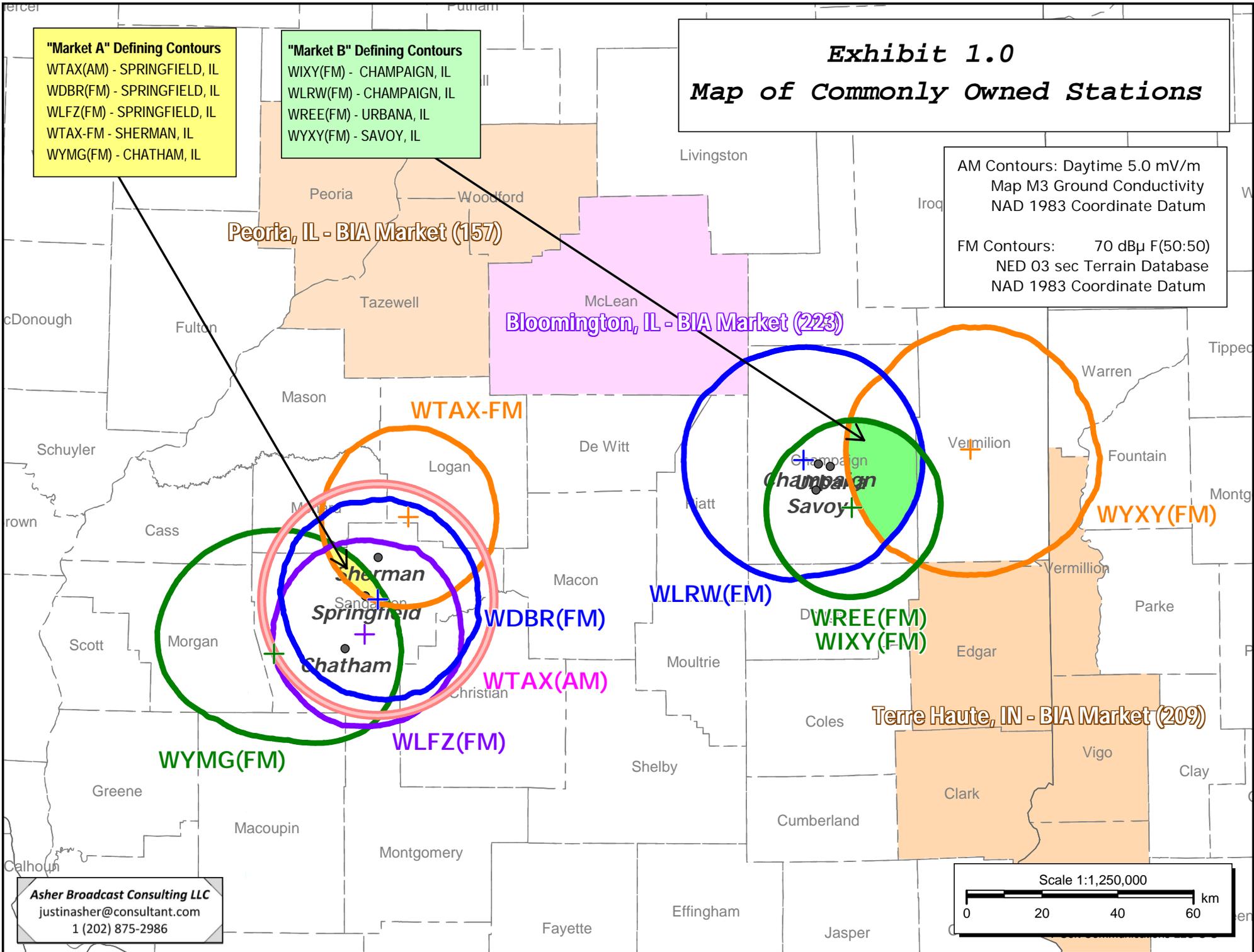
Exhibit 1.0 Map of Commonly Owned Stations

"Market A" Defining Contours
 WTAX(AM) - SPRINGFIELD, IL
 WDBR(FM) - SPRINGFIELD, IL
 WLFZ(FM) - SPRINGFIELD, IL
 WTAX-FM - SHERMAN, IL
 WYMG(FM) - CHATHAM, IL

"Market B" Defining Contours
 WIXY(FM) - CHAMPAIGN, IL
 WLRW(FM) - CHAMPAIGN, IL
 WREE(FM) - URBANA, IL
 WYXY(FM) - SAVOY, IL

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



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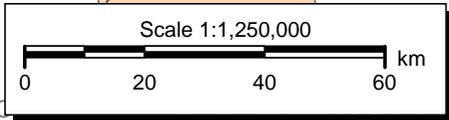


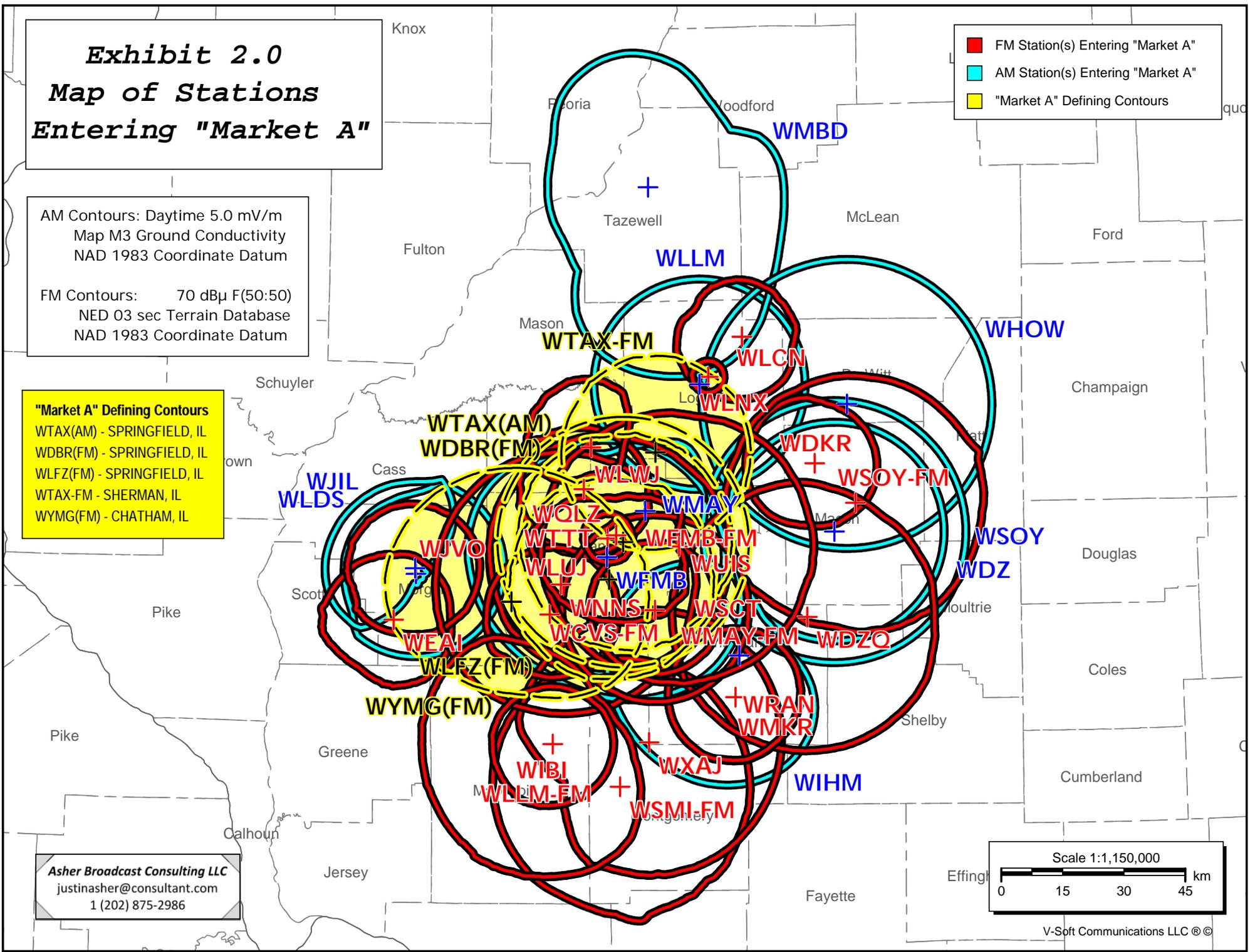
Exhibit 2.0 Map of Stations Entering "Market A"

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

"Market A" Defining Contours
 WTAX(AM) - SPRINGFIELD, IL
 WDBR(FM) - SPRINGFIELD, IL
 WLFZ(FM) - SPRINGFIELD, IL
 WTAX-FM - SHERMAN, IL
 WYMG(FM) - CHATHAM, IL

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



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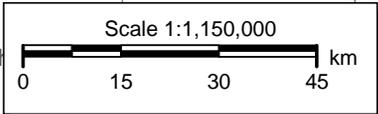


Exhibit 2.1

Tabulation of Select Stations Entering "Market A"

Total number of overlapping contours: 38

Reference:

Callsign	Type	Chan	City	St	File Number	Dist (km)	Azi (deg)
WTAX(AM)	AM	1240	SPRINGFIELD	IL	BL9041	0.0	0.0
WDBR(FM)	FM	279B	Springfield	IL	BMLH20120629AAB	0.0	345.6
WLFZ(FM)	FM	270B	Springfield	IL	BMLH19930729KA	9.8	200.6
WTAX-FM	FM	230B1	Sherman	IL	BLH20041206AAT	23.2	19.8
WYMG(FM)	FM	263B	Chatham	IL	BMLH20120511ABJ	30.9	242.0

Overlapping Contours:

Callsign	Type	Chan	City	St	File Number	Dist (km)	Azi (deg)
WLWJ	FM	201A	Petersburg	IL	BLED20011010AAC	24.4	341.2
WLNK	FM	205A	Lincoln	IL	BLED20111208DLZ	45.4	27.2
WTTT	FM	205A	Springfield	IL	0000113853	3.9	283.4
WLUJ	FM	209B1	Springfield	IL	BLED20010828AAQ	2.4	314.2
WLLM-FM	FM	211A	Carlinville	IL	BLED20010302AAX	52.2	199.2
WSCT	FM	213A	Springfield	IL	BLED20001213ABN	18.3	154.8
WIBI	FM	216B	Carlinville	IL	BLED20031204AFJ	52.2	199.2
WUIS	FM	220B	Springfield	IL	BLED20080214AFY	13.6	94.4
WMAY-FM	FM	224B1	Taylorville	IL	BLH19930528KE	18.3	154.8
WMKR	FM	232A	Pana	IL	BLH20011109ACL	46.7	144.0
WDZQ	FM	236B	Decatur	IL	BLH20000509AAO	48.6	112.1
WLCN	FM	242A	Atlanta	IL	BLH20070926AOE	57.9	30.1
WCVS-FM	FM	244A	Virden	IL	BLH20040414ABX	25.2	225.4
WRAN	FM	247A	Taylorville	IL	BLH20011109ACK	46.7	144.0
WQLZ	FM	249A	Petersburg	IL	BLH20020305AAR	16.1	323.5
WNNS	FM	254B	Springfield	IL	BMLH19890831KB	18.4	235.7
WXAJ	FM	259B	Hillsboro	IL	BLH19990806KC	49.3	172.6
WSOY-FM	FM	275B	Decatur	IL	BLH19990512KB	57.5	80.4
WFMB-FM	FM	283B	Springfield	IL	BLH19830815AC	5.4	227.1
WJVO	FM	288A	South Jacksonville	IL	BMLH19910514KD	51.2	261.3
WSMI-FM	FM	291B	Litchfield	IL	BLH19800922AJ	59.7	180.7
WEAI	FM	296A	Lynnville	IL	BMLH19910412KE	59.2	251.4
WDKR	FM	297A	Maroa	IL	BLH19960607KB	50.6	67.6
WMAY	AM	970	SPRINGFIELD	IL	BL8587	9.3	35.3
WIHM	AM	1410	TAYLORVILLE	IL	BML20010530ADB	39.6	134.3
WFMB	AM	1450	SPRINGFIELD	IL	BLRC1104AO	5.4	227.1
WSOY	AM	1340	DECATUR	IL	BL20090107ALA	51.7	87.1
WDZ	AM	1050	DECATUR	IL	BL19991015ABX	51.7	87.1
WJIL	AM	1550	JACKSONVILLE	IL	BL8966	51.2	261.3
WLDS	AM	1180	JACKSONVILLE	IL	BL20170510ABE	51.2	262.8
WHOW	AM	1520	CLINTON	IL	BL14158	64.2	58.3
WMBD	AM	1470	PEORIA	IL	BL19920511AA	86.8	4.0
WLLM	AM	1370	LINCOLN	IL	BML20130130ALH	42.8	25.8

Distance and bearing calculations from coordinates: 39-47-36 N, 089-36-18 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.**

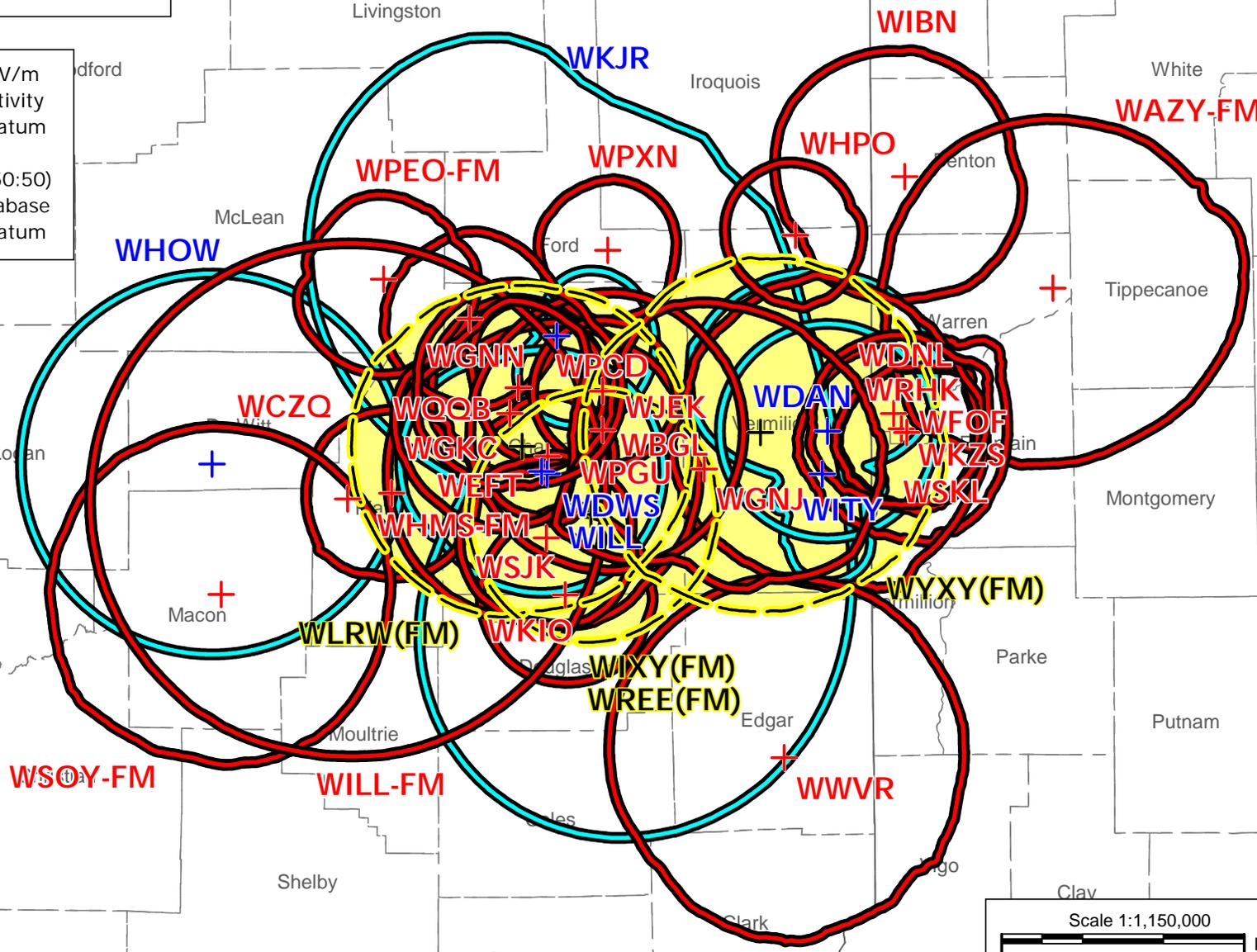
Exhibit 3.0 Map of Stations Entering "Market B"

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 B" Defining Contours
WIXY(FM) - CHAMPAIGN, IL
WLRW(FM) - CHAMPAIGN, IL
WREE(FM) - URBANA, IL
WYXY(FM) - SAVOY, IL

■ FM Station(s) Entering "Market B"
■ AM Station(s) Entering "Market B"
■ "Market B" Defining Contours



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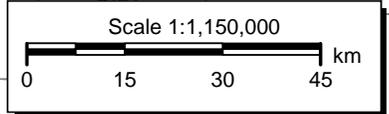


Exhibit 3.1

Tabulation of Select Stations Entering "Market B"

Total number of overlapping contours: 36

Reference:

Callsign	Type	Chan	City	St	File Number	Dist (km)	Azi (deg)
WIXY(FM)	FM	262B1	Champaign	IL	BMLH20081215ABB	0.0	0.0
WLRW(FM)	FM	233B	Champaign	IL	BLH20051107ABO	17.9	314.9
WREE(FM)	FM	223B1	Urbana	IL	BLH20010717AAA	0.0	0.0
WYXY(FM)	FM	256B	Savoy	IL	BLH20090317AAM	34.9	64.3

Overlapping Contours:

Callsign	Type	Chan	City	St	File Number	Dist (km)	Azi (deg)
WPCD	FM	204B1	Champaign	IL	BLED19990916AAE	27.1	330.3
WGNJ	FM	207B	St. Joseph	IL	BLED20051006AAX	22.6	68.2
WEFT	FM	211B1	Champaign	IL	0000107505	24.0	321.3
WILL-FM	FM	215B	Urbana	IL	BLED757	45.2	273.8
WBGL	FM	219B	Champaign	IL	BLED20050711ABR	15.8	8.0
WSJK	FM	228A	Tuscola	IL	BLH20140124ABQ	9.3	242.5
WRHK	FM	235A	Danville	IL	BLH19930415KA	59.2	71.7
WJEK	FM	237A	Rantoul	IL	BLH19900716KC	22.9	5.6
WQQB	FM	241A	Rantoul	IL	BLH19930316KA	27.1	330.3
WHMS-FM	FM	248B	Champaign	IL	BLH19911022KB	12.1	311.3
WPEO-FM	FM	252A	Farmer City	IL	BLH20080804AEC	58.1	318.7
WWVR	FM	253B	Paris	IL	BMLH20110215AEO	57.5	141.6
WHPO	FM	265A	Hoopeston	IL	BLH19790517AB	64.1	36.3
WDNL	FM	271B	Danville	IL	BLH19871016KD	46.5	70.7
WGNN	FM	273A	Fisher	IL	BLED19960415KB	42.7	328.3
WSOY-FM	FM	275B	Decatur	IL	BLH19990512KB	70.1	258.0
WPXN	FM	285A	Paxton	IL	BLH19841026DD	49.0	3.8
WCZQ	FM	288A	Monticello	IL	BMLH20140430AAG	37.1	276.3
WGKC	FM	290A	Mahomet	IL	BLH20021004AAZ	27.1	330.3
WPGU	FM	296A	Urbana	IL	BLH19800317AL	13.4	323.5
WKIO	FM	300A	Arcola	IL	BLH20071001DNX	15.6	197.9
WFOF	FM	212B1	Covington	IN	BLED19870319KG	59.7	74.7
WSKL	FM	225A	Veedersburg	IN	BLH19990714KD	60.5	75.6
WAZY-FM	FM	243B	Lafayette	IN	BLH7632	95.3	64.0
WIBN	FM	251B1	Earl Park	IN	BMLH20100810ABA	85.4	43.0
WKZS	FM	276A	Covington	IN	BLH19820610AN	60.5	75.6
WDAN	AM	1490	DANVILLE	IL	BL19811209AG	46.5	70.7
WITY	AM	980	DANVILLE	IL	BL19990129DC	43.5	80.2
WILL	AM	580	URBANA	IL	BL20120719ADN	11.1	313.2
WDWS	AM	1400	CHAMPAIGN	IL	BL19911022AD	12.1	311.3
WKJR	AM	1460	RANTOUL	IL	BL13212	33.7	349.3
WHOW	AM	1520	CLINTON	IL	BL14158	70.8	277.7

Distance and bearing calculations from coordinates: 40-00-45.10 N, 088-08-29.20 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.**

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