

MULTIPLE SERVICES STUDY

Associated with the
Co-ownership of Stations:

WKOV-FM – Oak Hill, OH
WCJO(FM) – Jackson, OH
WYRO(FM) – McArthur, OH
WXTQ(FM) – Athens, OH
WATH(AM) – Athens, OH
WYPC(AM) – Wellston, OH
WXIZ(FM) – Waverly, OH
WXZQ(FM) – Piketon, OH
WXIC(AM) – Waverly, OH
WBYG(FM) – Point Pleasant, WV
WYVK(FM) – Middleport, OH
WMPO(AM) – Middleport-Pomeroy, OH
WTHQ(AM) – Point Pleasant, WV

Interim Contour Methodology

January 2023

CERTIFICATION OF ENGINEERS

The firm of Munn-Reese, Broadcast Engineering Consultants, with offices at 385 Airport Drive, Coldwater, Michigan, has been retained for the purpose of preparing the technical data forming this report.

The data utilized in this report was taken from the FCC Secondary Database and data on file. While this information is believed accurate, errors or omissions in the database and file data are possible. This firm may not be held liable for damages as a result of such data errors or omissions.

The report has been prepared by properly trained electronics specialists under the direction of the undersigned whose qualifications are a matter of record before the Federal Communications Commission.

I declare under penalty of the laws of perjury that the contents of this report are true and accurate to the best of my knowledge and belief.

January, 13 2022

MUNN-REESE

By 

Bruce Bellamy, President

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Broadcast Engineering Consultants
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Engineering Statement

This firm was retained to determine whether the Jackson County Broadcasting Inc.'s continued ownership of its current attributable broadcast interests, with the acquisition of WATH(AM) – Athens OH, WXTQ(FM) – Athens OH, WXIZ(FM) – Waverly OH, WXIC(AM) – Waverly OH, and WXZQ(FM) – Piketon OH, WBYG(FM) – Point Pleasant, WV, - WYVK(FM) – Middleport, OH, WMPO(FM) – Middleport/Pomeroy, OH, and WTHQ(AM) – Point Pleasant, WV complies with the Commission's multiple ownership rule, 47 C.F.R. Section 73.3555.

With this acquisition there will be a total of (13) commonly owned or controlled stations.

Portions of these holdings are subject to analysis under either the *Interim Contour-overlap Methodology* or the *BIA Market Methodology*. This study solely addresses the *Interim Contour-overlap Methodology* portion of these holdings.

Under the *Interim Contour-overlap Methodology*, five separate and distinct markets will result within this entire ownership group. "Market 1" is comprised of WXTQ(FM) and WATH(AM). "Market 2" is comprised of WYRO(FM), WYPC(AM), WCJO(FM), and WKOV-FM. "Market 3" is comprised of WXIZ(FM), WXZQ(FM), WKOV(FM), and WXIC(AM). "Market 4" is comprised of WYRO(FM), WXIZ(FM), and WKOV-FM. "Market 4" is comprised of WBYG(FM), WYVK(FM), WMPO(AM), and WTHQ(FM).

"Market 1" consists of one (1) AM and one (1) FM station and is permissible under 73.3555(a)(1)(iv).

"Market 2" consists of one (1) AM Station and three (3) FM stations.

"Market 3" consists of one (1) AM Station and three (3) FM stations.

"Market 4" consists of three (3) FM stations.

"Market 5" consists of two (2) FM stations and two (2) AM stations.

The existing facilities of the stations included in this report were determined by the use of currently updated copies of the FCC computer databases of AM and FM stations. The listed facilities served as the basis for the computation of the respective principal community contours. 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 M-3 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 dBu) contour as provided in §73.313 of the Rules. The predicted FM contours shown in this report are based on the use of 72 equally spaced terrain radials beginning with 0° True.

Engineering Statement (continued)

There are five (5) unique and distinct market associated with this filing that requires the *Interim Contour-overlap Methodology*. The markets has been defined, in accordance with §73.3555 of the FCC Rules, as the area within the total perimeter formed by the combined principal community contours of commonly owned stations creating each market.

Exhibit 1.0 shows the thirteen (13) stations under common control or proposed to be under common control which are relevant for this ownership group. The individual markets common overlap areas have been designated as well.

For “Market 2”, the market defining contours have been shown in **Exhibit 2.0** of this report along with enough additional principal community contours entering the market. The defining contours have been shown with purple dashed lines on this map. AM contours entering the market have been denoted in green lines. FM contour entering the market have been shown in red lines. Co-owned stations entering the market, but not defining the market have been omitted. **Exhibit 2.1** a tabulation of the stations.

Under the current rules, “Market 2” falls at least within the minimum limitations set forth in §73.3555 (a)(1)(iv): ***In a radio market with 14 or fewer full-power, commercial and noncommercial radio stations, not more than 5 commercial radio stations in total or not more than 3 commercial stations in the same service (AM or FM); provided however, that no person or single entity (or entities under common control) may have a cognizable interest in more than 50% of the full-power, commercial and noncommercial stations in such market unless the combination of stations comprises not more than one AM and one FM station.*** The principal community contours of at least six (6) other stations entering the Market 2 are shown in **Exhibit 2.0**. Including the (3) FM and 1 (AM) stations which define the market, there are at least ten (10) aural services in “Market 2”, giving less than a 50% interest in the market. **Exhibit 2.1** lists the facilities of the individual stations used in this “Market 2” report.

For “Market 3”, the market defining contours have been shown in **Exhibit 3.0** of this report along with enough additional principal community contours entering the market. The defining contours have been shown with purple dashed lines on this map. AM contours entering the market have been denoted in green lines. FM contour entering the market have been shown in red lines. Co-owned stations entering the market, but not defining the market have been omitted. **Exhibit 3.1** a tabulation of the stations.

Under the current rules, “Market 3” falls at least within the minimum limitations set forth in §73.3555 (a)(1)(iv): ***In a radio market with 14 or fewer full-power, commercial and noncommercial radio stations, not more than 5 commercial radio stations in total or not more than 3 commercial stations in the same service (AM or FM); provided however, that no person or single entity (or entities under common control) may have a cognizable interest in more than 50% of the full-power, commercial and noncommercial stations in such market unless the combination of stations comprises not more than one AM and one FM station.*** The principal community contours of at least six (6) other stations entering the “Market 3” are shown in **Exhibit 3.0**. Including the (3) FM and 1 (AM) stations which define the market, there are at least ten (10) aural services in “Market 3”, giving less than a 50% interest in the market. **Exhibit 3.1** lists the facilities of the individual stations used in this “Market 3” report.

For "Market 4", the market defining contours have been shown in **Exhibit 4.0** of this report along with enough additional principal community contours entering the market. The defining contours have been shown with purple dashed lines on this map. AM contours entering the market have been denoted in green lines. FM contour entering the market have been shown in red lines. Co-owned stations entering the market, but not defining the market have been omitted. **Exhibit 4.1** a tabulation of the stations.

Under the current rules, "Market 4" falls at least within the minimum limitations set forth in §73.3555 (a)(1)(iv): ***In a radio market with 14 or fewer full-power, commercial and noncommercial radio stations, not more than 5 commercial radio stations in total or not more than 3 commercial stations in the same service (AM or FM); provided however, that no person or single entity (or entities under common control) may have a cognizable interest in more than 50% of the full-power, commercial and noncommercial stations in such market unless the combination of stations comprises not more than one AM and one FM station.*** The principal community contours of at least six (6) other stations entering the Market 4 are shown in **Exhibit 4.0**. Including the (3) FM and 1 (AM) stations which define the market, there are at least ten (10) aural services in "Market 4", giving less than a 50% interest in the market. **Exhibit 4.1** lists the facilities of the individual stations used in this "Market 4" report.

For "Market 5", the market defining contours have been shown in **Exhibit 5.0** of this report along with enough additional principal community contours entering the market. The defining contours have been shown with purple dashed lines on this map. AM contours entering the market have been denoted in green lines. FM contour entering the market have been shown in red lines. Co-owned stations entering the market, but not defining the market have been omitted. **Exhibit 5.1** a tabulation of the stations.

Under the current rules, "Market 5" falls at least within the minimum limitations set forth in §73.3555 (a)(1)(iv): ***In a radio market with 14 or fewer full-power, commercial and noncommercial radio stations, not more than 5 commercial radio stations in total or not more than 3 commercial stations in the same service (AM or FM); provided however, that no person or single entity (or entities under common control) may have a cognizable interest in more than 50% of the full-power, commercial and noncommercial stations in such market unless the combination of stations comprises not more than one AM and one FM station.*** The principal community contours of at least six (6) other stations entering the Market 4 are shown in **Exhibit 5.0**. Including the (2) FM and 2 (AM) stations which define the market, there are at least ten (10) aural services in "Market 5", giving less than a 50% interest in the market. **Exhibit 5.1** lists the facilities of the individual stations used in this "Market 5" report.

Exhibit 1.0 - Commonly Owned Stations City Grade Contours (70 dBu and 5 mv/m)

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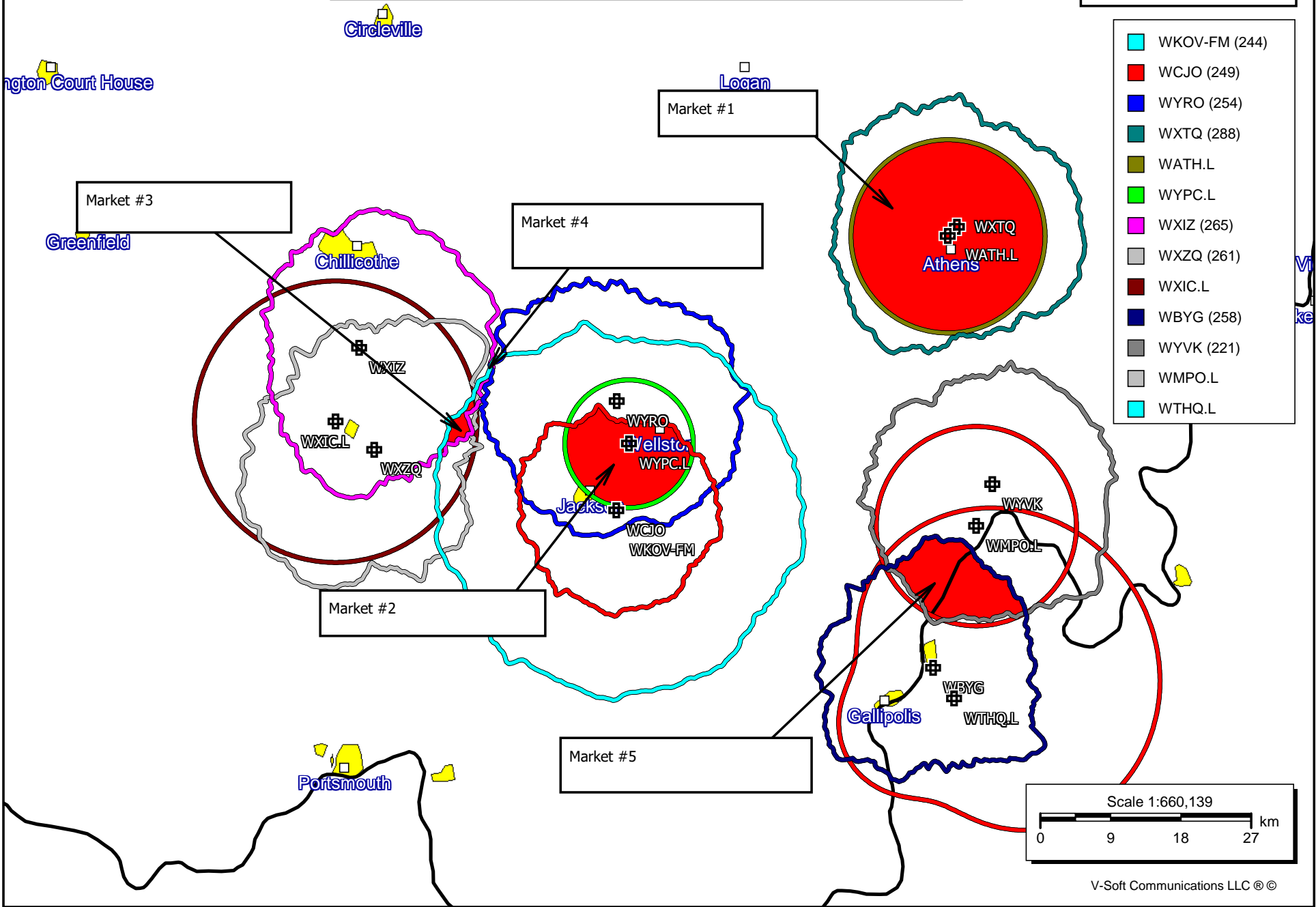


Exhibit 2.0 - Market #2 Duopoly Study

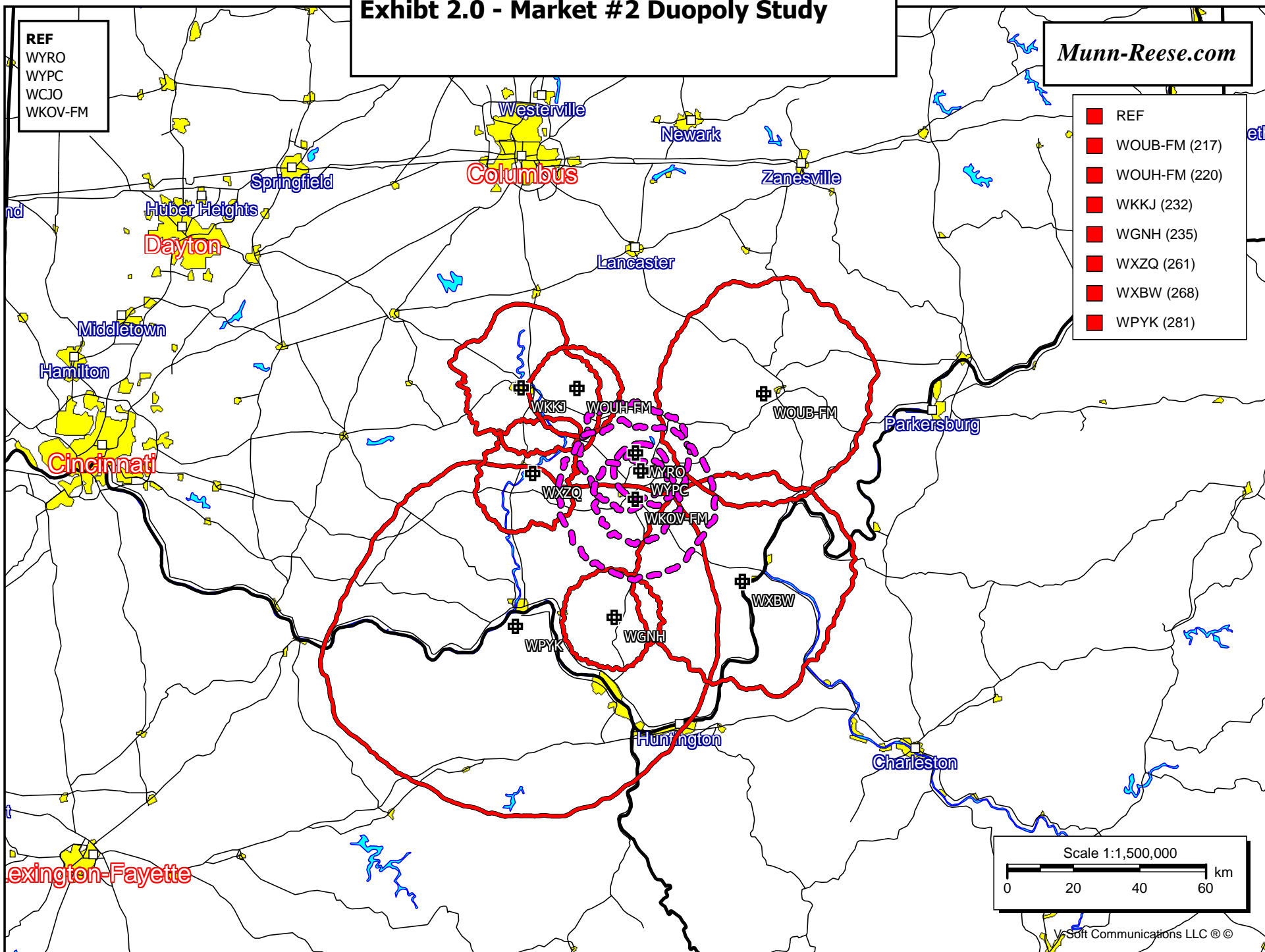


Exhibit 2.1

Tabulation of Select Stations Entering “Market 2”

Stations Entering Market 2: (No Less than 6)

Total number of overlapping contours: 11

Reference:

Callsign	Type	Chan City	St	File Number	Dist (km)	Azi (deg)
WYRO	FM	254A Mcarthur	OH	0000189720	0.0	0.0
WYPC	AM	1330 WELLSTON	OH	BL12747	5.6	164.0
WCJO	FM	249A Jackson	OH	BLH20050831AAY	14.0	180.2
WKOV-FM	FM	244B1 Oak Hill	OH	BMLH20160201AFT	14.0	180.2

Overlapping Contours:

Callsign	Type	Chan City	St	File Number	Dist (km)	Azi (deg)
WOUB-FM	FM	217B Athens	OH	BLD20020517ABA	42.5	65.2
WOUH-FM	FM	220A Chillicothe	OH	BLD19920709KB	26.3	317.6
WKKJ	FM	232B1 Chillicothe	OH	BLH20061101ADJ	39.7	299.6
WGNH	FM	235A South Webster	OH	BLD20090514ACI	50.0	187.4
WXZQ	FM	261A Piketon	OH	BLH19971210KD	31.6	258.6
WXBW	FM	268B Gallipolis	OH	BLH19870923KB	50.4	140.3
WPYK	FM	281C0 Portsmouth	OH	BLD20181011AAC	63.6	214.7

Distance and bearing calculations from coordinates: 39-09-17.94 N, 082-35-48.91 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.

Exhibit 3.0 - Market #3

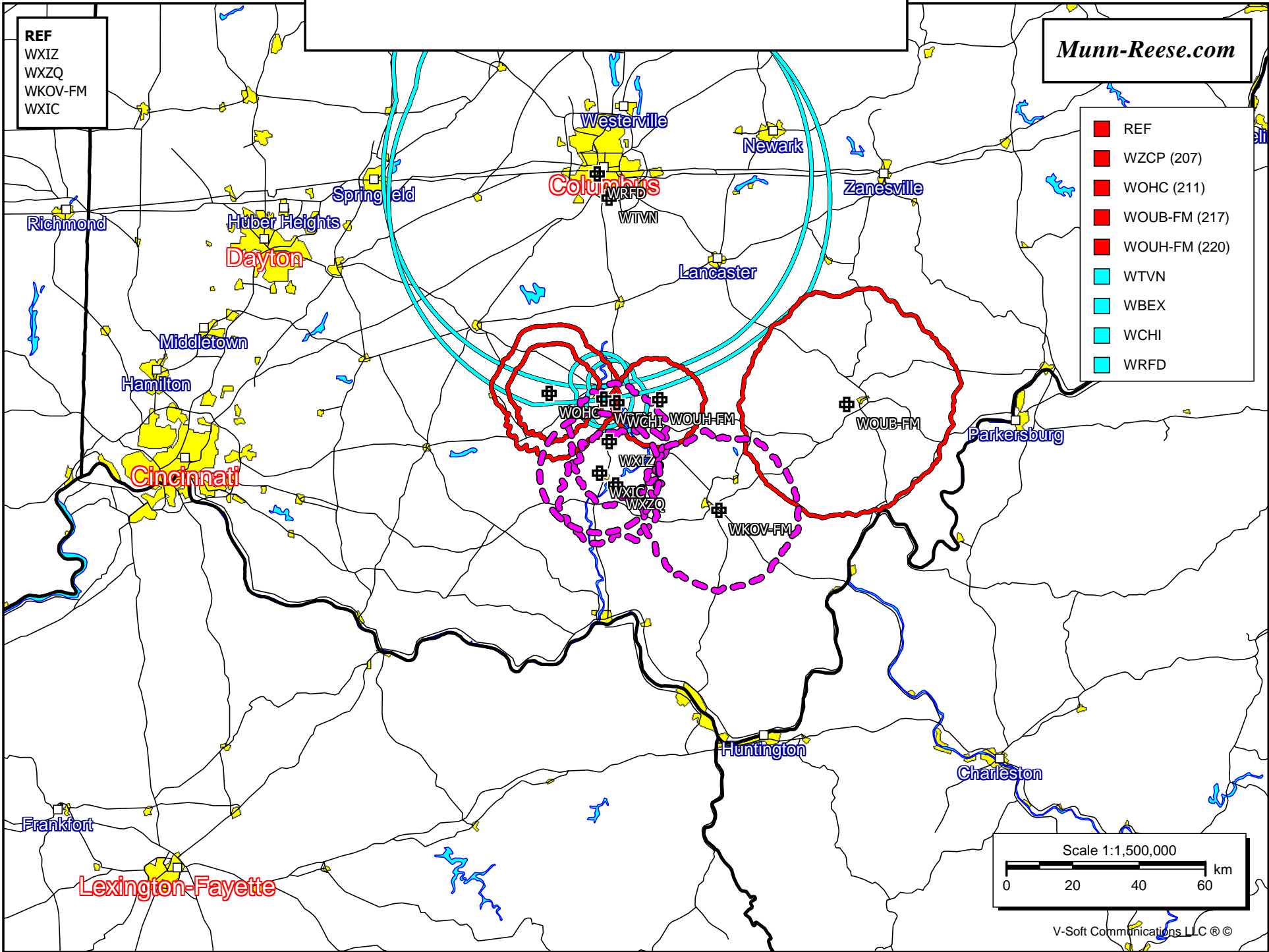


Exhibit 3.1

Tabulation of Select Stations Entering "Market 3"

Stations Entering Market 3:

Total number of overlapping contours: 12

Reference:

Callsign	Type	Chan City	St	File Number	Dist (km)	Azi (deg)
WXIZ	FM	265A Waverly	OH	BLH20190327AAE	0.0	0.0
WXZQ	FM	261A Piketon	OH	BLH19971210KD	13.2	171.3
WKOV-FM	FM	244B1 Oak Hill	OH	BMLH20160201AFT	38.9	122.0
WXIC	AM	660 WAVERLY	OH	BL19870911AB	9.9	197.4

Overlapping Contours:

Callsign	Type	Chan City	St	File Number	Dist (km)	Azi (deg)
WZCP	FM	207A Chillicothe	OH	BLED20170303AAG	23.1	308.8
WOHC	FM	211B1 Chillicothe	OH	0000197081	23.2	308.8
WOUB-FM	FM	217B Athens	OH	BLED20020517ABA	72.4	81.0
WOUH-FM	FM	220A Chillicothe	OH	BLED19920709KB	19.8	50.2
WTVN	AM	610 COLUMBUS	OH	BL20061017ADR	73.3	359.9
WBEX	AM	1490 CHILLICOTHE	OH	BL19840809AD	12.9	353.0
WCHI	AM	1350 CHILLICOTHE	OH	BL20080508ACR	11.9	10.9
WRFD	AM	880 COLUMBUS-WORTHINGTON	OH	BL19970918AF	80.7	357.4

Distance and bearing calculations from coordinates: 39-12-55.96 N, 082-58-42.96 W

Duopoly Options:

TV: Not Included

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

AM: 5.0 mV/m

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

Exhibit 4.0 - Market #4

REF
WYRO
WXIZ
WKOV-FM

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- REF
- WZCP (207)
- WOHC (211)
- WOUB-FM (217)
- WOUH-FM (220)
- WKKJ (232)
- WGNH (235)
- WXBW (268)
- WPYK (281)
- WQLX (293)
- WTVN
- WBEX
- WCHI
- WRFD

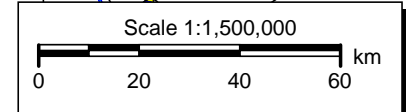


Exhibit 4.1

Tabulation of Select Stations Entering "Market 4"

Stations Entering Market 4:

Total number of overlapping contours: 16

Reference:

Callsign	Type	Chan City	St	File Number	Dist (km)	Azi (deg)
WYRO	FM	254A Mcarthur	OH	0000189720	0.0	0.0
WXIZ	FM	265A Waverly	OH	BLH20190327AAE	33.7	281.6
WKOV-FM	FM	244B1 Oak Hill	OH	BMLH20160201AFT	14.0	180.2

Overlapping Contours:

Callsign	Type	Chan City	St	File Number	Dist (km)	Azi (deg)
WZCP	FM	207A Chillicothe	OH	BLED20170303AAG	55.2	292.8
WOHC	FM	211B1 Chillicothe	OH	0000197081	55.3	292.8
WOUB-FM	FM	217B Athens	OH	BLED20020517ABA	42.5	65.2
WOUH-FM	FM	220A Chillicothe	OH	BLED19920709KB	26.3	317.6
WKKJ	FM	232B1 Chillicothe	OH	BLH20061101ADJ	39.7	299.6
WGNH	FM	235A South Webster	OH	BLED20090514ACI	50.0	187.4
WXBW	FM	268B Gallipolis	OH	BLH19870923KB	50.4	140.3
WPYK	FM	281C0 Portsmouth	OH	BLED20181011AAC	63.6	214.7
WQLX	FM	293A Chillicothe	OH	BLH20071207ABY	39.7	299.6
WTVN	AM	610 COLUMBUS	OH	BL20061017ADR	86.6	337.7
WBEX	AM	1490 CHILLICOTHE	OH	BL19840809AD	39.7	299.6
WCHI	AM	1350 CHILLICOTHE	OH	BL20080508ACR	35.8	301.1
WRFD	AM	880 COLUMBUS-WORTHINGTON	OH	BL19970918AF	94.7	337.4

Distance and bearing calculations from coordinates: 39-09-17.94 N, 082-35-48.91 W

Duopoly Options:

TV: Not Included

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

AM: 5.0 mV/m

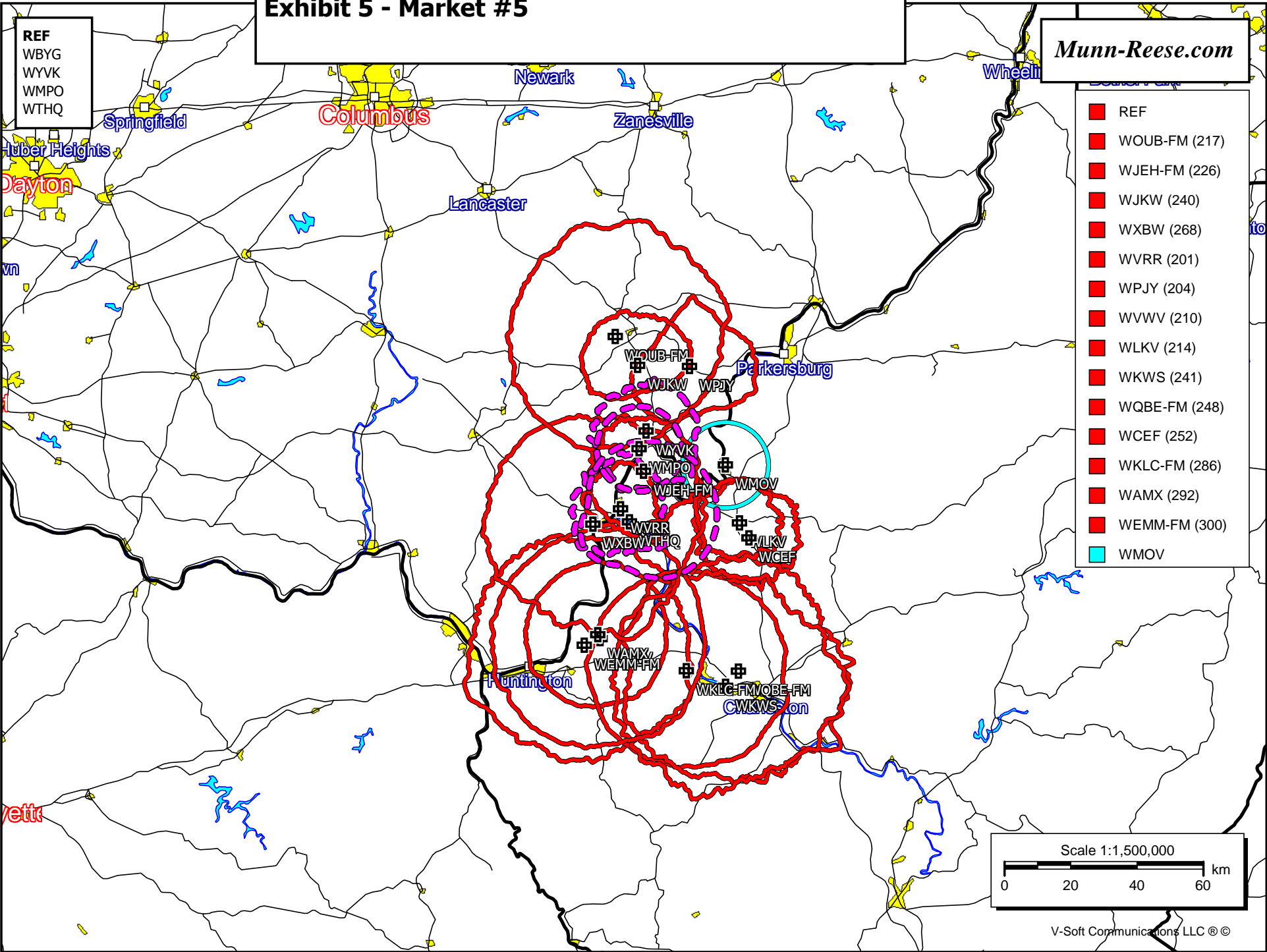
Stations more than 92 km from the common area were excluded.

Exhibit 5 - Market #5

REF
WBYG
WYVK
WMPO
WTHQ

Munn-Reese.com

- REF
- WOUB-FM (217)
- WJEH-FM (226)
- WJKW (240)
- WXBW (268)
- WVRR (201)
- WPJY (204)
- WVWV (210)
- WLKV (214)
- WKWS (241)
- WQBE-FM (248)
- WCEF (252)
- WKLC-FM (286)
- WAMX (292)
- WEMM-FM (300)
- WMOV



Scale 1:1,500,000
0 20 40 60 km

Exhibit 5.1

Tabulation of Select Stations Entering "Market 5"

Total number of overlapping contours: 19

Reference:

Callsign	Type	Chan City	St	File Number	Dist (km)	Azi (deg)
WBYG	FM	258A Point Pleasant	WV	BMLH20001006ACN	0.0	0.0
WYVK	FM	221A Middleport	OH	BMLH20000518ABB	24.7	18.1
WMPO	AM	1390 MIDDLEPORT-POMEROY	OH	BL20070829AEB	19.0	17.1
WTHQ	AM	1030 POINT PLEASANT	WV	BL19940712AC	4.7	145.6

Overlapping Contours:

Callsign	Type	Chan City	St	File Number	Dist (km)	Azi (deg)
WOUB-FM	FM	217B Athens	OH	BLER20020517ABA	51.9	358.2
WJEH-FM	FM	226A Racine	OH	0000188821	13.3	31.5
WJKW	FM	240A Athens	OH	BLH19980825KA	43.5	6.8
WXBW	FM	268B Gallipolis	OH	BLH19870923KB	9.5	241.0
WVRR	FM	201A Point Pleasant	WV	BLER20001129AAA	0.0	0.0
WPJY	FM	204B1 Blennerhassett	WV	BLER20081007AFT	47.7	25.8
WVWV	FM	210B Huntington	WV	BLER19940810KZ	39.6	188.9
WLKV	FM	214A Ripley	WV	BLER20160216ABJ	36.1	96.7
WKWS	FM	241B Charleston	WV	BLH19930405KB	62.1	149.4
WQBE-FM	FM	248B Charleston	WV	BLH7326	60.4	144.0
WCEF	FM	252A Ripley	WV	BLH20081010ABE	39.6	102.7
WKLC-FM	FM	286B St. Albans	WV	BLH20111003AGO	52.6	157.9
WAMX	FM	292B1 Milton	WV	BLH19970529KA	38.5	190.3
WEMM-FM	FM	300B Huntington	WV	BLH19980304KE	42.5	194.9
WMOV	AM	1360 RAVENSWOOD	WV	BL20150902AEI	34.2	67.2

Distance and bearing calculations from coordinates: 38-50-48.91 N, 082-07-49.98 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.