

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

*for the Proposed Modification of
WIZZ(AM).P - Greenfield, MA
(Facility ID: 54779)
1520 kHz*

by

Saga Communications of New England, LLC

EXPLANATION OF REPORT: This Technical Report has been prepared to determine the total number of commercial and non-commercial principal community contours associated with the proposed modification of WIZZ(AM).P - Greenfield, MA (Facility ID: 54779). WIZZ(AM).P is not presently listed in any BIA Market; therefore, this modification has been studied only under the Interim Contour-Overlap Methodology.

Saga Communications of New England, LLC, presently holds a broadcast interest in five (5) additional aural services relevant to this WIZZ(AM).P proposed modification. Saga holdings not overlapping this proposal need not be discussed herein. Concerning these six (6) total holdings affecting the WIZZ(AM).P modification, there will be one (1) unique and distinct market within this affected ownership group. "Market A" is comprised of the six (6) stations, and defined as follows:

"Market A"					
CALL SIGN	CH/FREQ	CITY	STATE	FILE NUMBER	
WIZZ (AM) .P	1520kHz	Greenfield	MA	proposed	
WHMQ (AM)	1240kHz	Greenfield	MA	BML20191028ACR	
WPVQ-FM	CH237A	Greenfield	MA	BLH20180405AAL	
WHAI (FM) .C	CH252A	Greenfield	MA	LMS-0000116550	
WRSI (FM) .C	CH230A	Turners Falls	MA	LMS-0000116551	
WLZX-FM	CH257A	Northampton	MA	BLH20000112ABC	

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.

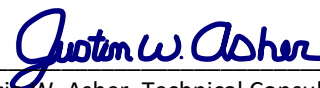
For AM stations, Map M3 soil conductivity values and the authorized licensed transmitting facilities served as the basis for the computation of the predicted 5.0 mV/m groundwave contour in accordance with 47 C.F.R. Section 73.183 of the FCC Rules. The distance to the contour was computed for seventy-two (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 market associated with this proposal. The 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 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 New England, LLC. holdings or any other holdings of parent company Saga Communications, Inc. are affected by this WIZZ(AM).P proposed modification. However, out of an overabundance of caution, all other nearby Saga holdings have also been plotted in **Exhibit 1.0**. 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 solid light blue lines. The facilities to be modified have been shown in darker dashed lines. The “Market A” common overlap areas have been designated as well.

For “Market A”, the market defining contours have been shown in **Exhibit 2.0** of this report along with the 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. 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 at least twenty-four (24) other stations entering the market are shown in **Exhibit 2.0**. Including the two (2) AM stations and four (4) FM stations which define the market, there are at least thirty (30) 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-two 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 7, 2021

Exhibit 1 Map of Commonly Owned Stations

- Co-Owned AM Station(s)
- AM Station(s) to be Aquired/Modified
- Co-Owned FM Station(s)
- FM Station(s) to be Aquired/Modified
- "Market A" Common Overlap Area

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

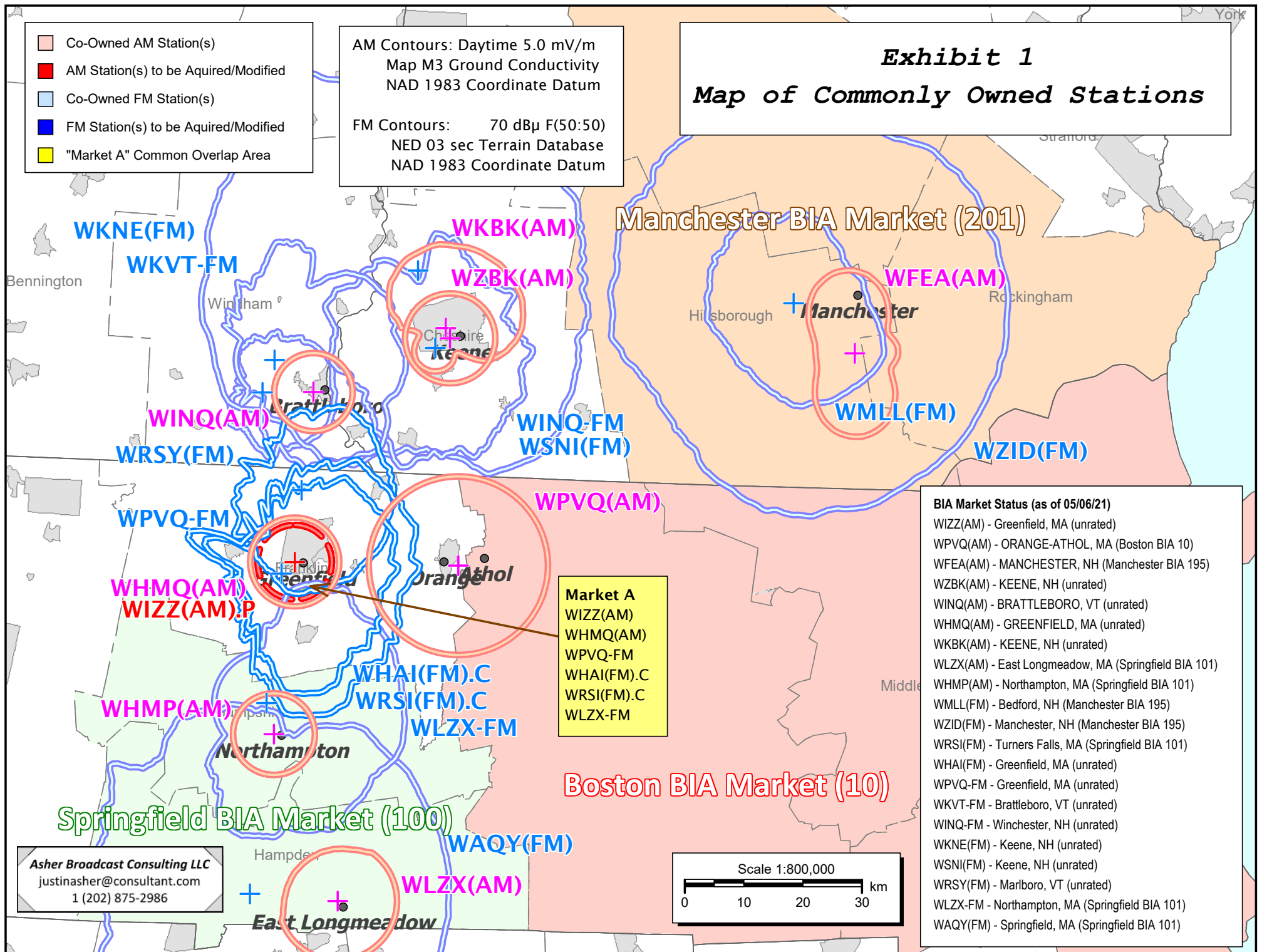


Exhibit 2.0 Map of Stations Entering "Market A"

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

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

WIZZ(AM).P - Greenfield, MA
WHMQ(AM) - Greenfield, MA
WPVQ-FM - Greenfield, MA
WHA1(FM).C - Greenfield, MA
WRSI(FM).C - Turners Falls, MA
WLZX-FM - Northampton, MA

WAMC-FM

WPVQ-FM

WHMQ(AM)
WIZZ(AM).P

WHA1.C
WRS1.C

WLZX-FM

WNNZ-FM

WKMY

WEIB WMUA
WAMH

WHYN-FM
WMHC WRNX

WVNE

WHYN
WWEI
WCCH

WNNZ
WAGE
WMAS-FM
WTCC
WACM

Exhibit 2.1

Tabulation of Select Stations Entering “Market A”

Total number of overlapping contours: 30

Reference:

Callsign	Type	Chan	City	St	File Number	Dist (km)	Azi (deg)
WIZZ (AM) .P	AM	1520	GREENFIELD	MA	proposed	--	--
WHMQ (AM)	AM	1240	GREENFIELD	MA	BML20191028ACR	1.9	212.0
WPVQ-FM	FM	237A	Greenfield	MA	BLH20180405AAL	10.5	0.3
WHAI.C	FM	252A	Greenfield	MA	0000116550	4.8	221.5
WRSI.C	FM	230A	Turners Falls	MA	0000116551	4.8	221.5
WLZX-FM	FM	257A	Northampton	MA	BLH20000112ABC	26.1	192.3

Overlapping Contours:

Callsign	Type	Chan	City	St	File Number	Dist (km)	Azi (deg)
WMAS-FM	FM	234B	Enfield	CT	BLH20111107ARY	54.9	180.4
WFCR	FM	203B	Amherst	MA	BLD19970605KB	30.6	150.5
WAMH	FM	207A	Amherst	MA	BLD20121019ACF	30.6	150.5
WTCC	FM	214A	Springfield	MA	BMLD20070314ADO	55.0	177.7
WMUA	FM	216A	Amherst	MA	BLD20031110ACU	24.3	163.5
WMHC	FM	218A	South Hadley	MA	BMLD19880804LI	38.9	176.5
WNNZ-FM	FM	219A	Deerfield	MA	BMLD20100908ACV	7.8	171.4
WOZQ	FM	220A	Northampton	MA	BLD19820924AH	31.5	184.6
WHYN-FM	FM	226B	Springfield	MA	BMLH19990121KA	40.4	185.0
WKMY	FM	260A	Athol	MA	0000105606	33.3	91.6
WRNX	FM	265A	Amherst	MA	BLH20120110ADN	39.2	184.6
WCCH	FM	278D	Holyoke	MA	BLD19811130AS	45.0	183.6
WWEI	FM	288A	Easthampton	MA	BMLH20141103AER	40.4	185.0
WEIB	FM	292A	Northampton	MA	BLH19980318KB	26.1	192.3
WYRY	FM	285A	Hinsdale	NH	BLH20010402AAV	22.8	32.9
WAMC-FM	FM	212B	Albany	NY	BMLD20101102ABH	46.3	274.9
WVBA	FM	205B1	Brattleboro	VT	BLD20180712AAL	25.0	1.2
WTSB-FM	FM	244A	Brattleboro	VT	BLH19910821KF	31.8	359.0
WTSB	AM	1450	BRATTLEBORO	VT	BL8900	29.9	7.2
WHYN	AM	560	SPRINGFIELD	MA	BML20080521AEH	46.0	188.1
WVNE	AM	760	LEICESTER	MA	BL19940412AB	58.6	132.0
WACE	AM	730	CHICOPEE	MA	BL9540	48.5	181.9
WNNZ	AM	640	WESTFIELD	MA	BML20100820ABW	48.6	194.3
WACM	AM	1270	SPRINGFIELD	MA	BL8346	57.0	179.8

Distance and bearing calculations from coordinates: 42-36-12 N, 072-36-21 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.