

Exhibit 4 - Engineering Statement A
RADIO MULTIPLE OWNERSHIP STUDY

prepared for

Galaxy Communications, L.P.

WTKV(FM) Granby, New York

Facility ID 24131

Ch. 288A 3.9 kW 125 m

Galaxy Communications, L.P. (“*Galaxy*”) is the licensee of WTKV(FM), Channel 288A, Oswego, New York. In a rule making, the FCC granted an allotment change to reassign Channel 288A to Granby, New York (MM Docket 00-169). Accordingly, the instant application seeks to modify the WTKV facility to move its transmitter site to a new location in accordance with its respective allocation. This statement has been prepared on behalf of *Galaxy* to show that the proposed move for WTKV(FM) complies with Section 73.3555(a) of the Rules of the Federal Communications Commission governing common ownership of multiple radio stations serving the same market(s).¹

Galaxy has ownership interest in radio facilities in the region around Granby, New York. Specifically, *Galaxy* holds ownership interest in the following nearby stations:

1	WKLL(FM)	Ch. 235B	Frankfort, New York	(Facility ID 54959)
2	WKRH(FM)	Ch. 293A	Minetto, New York	(Facility ID 56996)
3	WKRL-FM	Ch. 265A	North Syracuse, New York	(Facility ID 54547)
4	WRCK(FM)	Ch. 298B	Utica, New York	(Facility ID 54549)
5	WSCP-FM	Ch. 269A	Pulaski, New York	(Facility ID 1047)
6	WTKV(FM)	Ch. 288A	Oswego, New York	(Facility ID 24131)
7	WTKW(FM)	Ch. 258A	Bridgeport, New York	(Facility ID 22234)
8	WZUN(FM)	Ch. 271A	Phoenix, New York	(Facility ID 60253)
9	WSGO(AM)	1440 kHz	Oswego, NY	(Facility ID 24130)
10	WSCP(AM)	1070 kHz	Sandy Creek-Pulaski, NY	(Facility ID 1046)
11	WTLA(AM)	1200 kHz	North Syracuse, NY	(Facility ID 54546)
12	WTLB(AM)	1310 kHz	Utica, NY	(Facility ID 54548)

¹In accordance with the FCC Public Notice issued September 10, 2003 (DA 03-2867), references to Section 73.3555 of the Commission’s Rules herein refer to the Rules in effect prior to *Report and Order* in MB Docket No. 02-277 and MM Docket Nos. 01-235, 01-317, and 00-244 (adopted June 2, 2003). The United States Court of Appeals for the Third Circuit has stayed the effectiveness date of the rules adopted in this *Report and Order* (see *Prometheus Radio Project v. FCC*, No. 03-3388 (3d Cir. Sept. 3, 2003)).

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Multiple Radio Ownership

Under current FCC ownership rules, a “market” is defined as the area encompassed by the overlapping principal community contours of the radio stations for which a licensee has ownership interest. Accordingly, an evaluation has been made of the locations of the principal community contours of the stations for which common ownership is held, including the proposed relocation of WTKV(FM). Depicted in **Exhibit 4 - Figure 1** are the 3.16 mV/m principal community coverage contours of the eight (8) listed FM stations, and the daytime 5.0 mV principal community contours of the four (4) listed AM stations. The principal community contour of WTKV as licensed is shown in dashed gray to further explain the nature of the change proposed herein. The proposed relocation of WTKV(FM) has the direct effect of creating two “markets,” and has an ancillary effect on two other existing “markets.”

Markets Created by Direct Effect of Relocating WTKV(FM)

One market (Radio Market 1) is created by the instance of common overlap of the proposed WTKV(FM) 3.16 mV/m principal community contour with the 3.16 mV/m principal community contour of WKRH(FM) and the 5.0 mV/m principal community contour of WSGO(AM). The other market (Radio Market 2) is created by the instance of common overlap of the proposed WTKV(FM) 3.16 mV/m principal community contour with the 3.16 mV/m principal community contours of WZUN(FM) and WKRL-FM and the 5.0 mV/m principal community contour of WTLA(AM).

Ancillary Effect of Relocating WTKV(FM) on other Markets

As shown by **Exhibit 4 - Figure 1**, the principal community contours of other stations in which Galaxy has an attributable ownership interest share common overlap without WTKV, but in such a manner that the proposed principal community contour of WTKV now overlaps some portion of the resultant market, thus warranting inclusion in those markets’ overall station counts. One instance (Radio Market 3) is the common overlap of the 3.16 mV/m principal community contours of WKRL-FM, WTKW(FM) and WZUN(FM) with the 5.0 mV/m principal community contour of WTLA(AM). The latter, included only for completeness, is the market in which WTKV(FM) formerly shared common overlap with WKRH(FM), WSGA(AM) and WSCP(AM) (Radio

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Market 4) but now only overlaps some portion of that market without “common” overlap. These “ancillary effect” markets are considered in the instant multiple ownership study to completely demonstrate that with the proposed move of WTKV, all stations in which *Galaxy* has an attributable ownership interest remain in compliance with the Commission’s multiple ownership rules.

Radio stations WRCK(FM), WKLL(FM), and WTLB(AM) are included in **Exhibit 4 - Figure 1** to demonstrate that these three owned stations, as a separate market, do not have contour overlap with and are not affected by the proposed WTKV(FM) move.

Radio Market One (A Direct Effect of WTKV’s Move)

As shown shaded in **yellow** in **Exhibit 4 - Figure 2**, the bounds Radio Market One are defined by the principal community contours of WKRH(FM) and the proposed WTKV(FM). The principal community contour of WSGO(AM) is wholly contained within the principal community contour of WKRH(FM). Also depicted in **Exhibit 4 - Figure 2** and listed in **Exhibit 4 - Table I** are all of the other identifiable, operating domestic commercial radio stations with principal community contours overlapping any part of Radio Market One.

As illustrated in **Exhibit 4 - Table I** and **Exhibit 4 - Figure 2**, at least nine (9) AM and thirteen (13) FM commercial stations provide some measure of principal community coverage within Radio Market One. In the instant market, *Galaxy* is proposing to own two (2) FM stations and one (1) AM station with common overlapping principal community contours. The total count of twenty-two (22) radio stations demonstrates that the proposed level of ownership is consistent with the Commission’s radio multiple ownership limits with respect to Radio Market One.

Radio Market Two (A Direct Effect of WTKV’s Move)

As shown shaded in **yellow** in **Exhibit 4 - Figure 3**, the bounds Radio Market Two are defined by the principal community contours of the proposed WTKV(FM), WZUN(FM), and WTLA(AM). The principal community contour of WKRL-FM is wholly contained within the principal community contour of WTLA(AM). Also depicted in **Exhibit 4 - Figure 3** and listed in

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Exhibit 4 - Table II are all of the other identifiable, operating domestic commercial radio stations with principal community contours covering any part of Radio Market Two.

As illustrated in **Exhibit 4 - Table II** and **Exhibit 4 - Figure 3**, at least ten (10) AM and sixteen (16) FM commercial stations provide some measure of principal community coverage within Radio Market Two. In the instant market, Galaxy is proposing to own three (3) FM stations and one (1) AM station with common overlapping principal community contours. The total of twenty-six (26) radio stations demonstrates that the proposed level of ownership is consistent with the Commission's radio multiple ownership limits with respect to Radio Market Two.

Radio Market Three (An Ancillary Effect of WTKV's Move)

As shown shaded in **yellow** in **Exhibit 4 - Figure 4**, the bounds Radio Market Three are defined by the principal community contours of the proposed WZUN(FM), WTKW(FM), and WTLA(AM). The principal community contour of WKRL-FM is wholly contained within the principal community contour of WTLA(AM). Also depicted in **Exhibit 4 - Figure 4** and listed in **Exhibit 4 - Table III** are all of the other identifiable, operating domestic commercial radio stations with principal community contours covering any part of Radio Market Three, including the proposed WTKV(FM). The proposed move of WTKV(FM) causes its principal community contour to overlap some portion of Radio Market Four, but not to the extent that it shares common overlap with the other four stations comprising this market.

As illustrated in **Exhibit 4 - Table III** and **Exhibit 4 - Figure 4**, at least ten (10) AM and seventeen (17) FM commercial stations provide some measure of principal community coverage within Radio Market Four. In the instant market, Galaxy owns three (3) FM stations and one (1) AM station with common overlapping principal community contours. The total of twenty-seven (27) radio stations demonstrates that the existing level of ownership is remains consistent with the Commission's radio multiple ownership limits with respect to Radio Market Three.

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Radio Market Four (An Ancillary Effect of WTKV's Move)

As shown shaded in **yellow** in **Exhibit 4 - Figure 5**, the bounds of Radio Market Four are defined by the principal community contours of WSCP(AM) and WKRH(FM). The principal community contour of WSGO(AM) is wholly contained within the principal community contour of WKRH(FM). WTKV, as licensed, shared principal community contour overlap with all of these three stations. The proposed move eliminates WTKV from sharing common overlap with all three stations. Also depicted in **Exhibit 4 - Figure 5** and listed in **Exhibit 4 - Table IV** are all of the other identifiable, operating domestic commercial radio stations with principal community contours covering any portion of Radio Market Four. The contour of the proposed WTKV(FM) will still overlap some portion of Radio Market Four, but will no longer be considered toward the limit of stations which may be owned with common overlap in this market.

As illustrated in **Exhibit 4 - Table IV** and **Exhibit 4 - Figure 5**, at least six (6) AM and eleven (11) FM stations provide some measure of principal community coverage within Radio Market Four. In the instant market, Galaxy is proposing to own two (2) AM stations and one (1) FM station with common overlapping principal community contours. The total of seventeen (17) radio stations demonstrates that the existing level of ownership remains consistent with the Commission's radio multiple ownership limits with respect to Radio Market Four.

Contour Methodology

In preparing the attached maps and tables, pertinent station data were extracted from the Commission's engineering databases. For AM stations, these included the operating power, radiation efficiency, directional antenna data (where appropriate), and geographic coordinates. The distances to the 5 mV/m contours were computed using a digitized version of the Commission's estimated soil conductivity map, Figure M-3 and a computer program which simulates the Commission's AM groundwave propagation curves. For the FM, pertinent data for determining the distances to the contour included the antenna elevation above mean sea level, geographic coordinates, effective radiated power, and, where appropriate, directional antenna patterns. The requisite contours distances were determined using digitized, 3 arc-second, terrain data along radials

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spaced every degree from the transmitter site and an implementation of the Commission's TVFMFS computer program which simulates the FM distance curves. The distances to the pertinent contours were then fed into a GIS mapping program which was used to generate the attached maps.

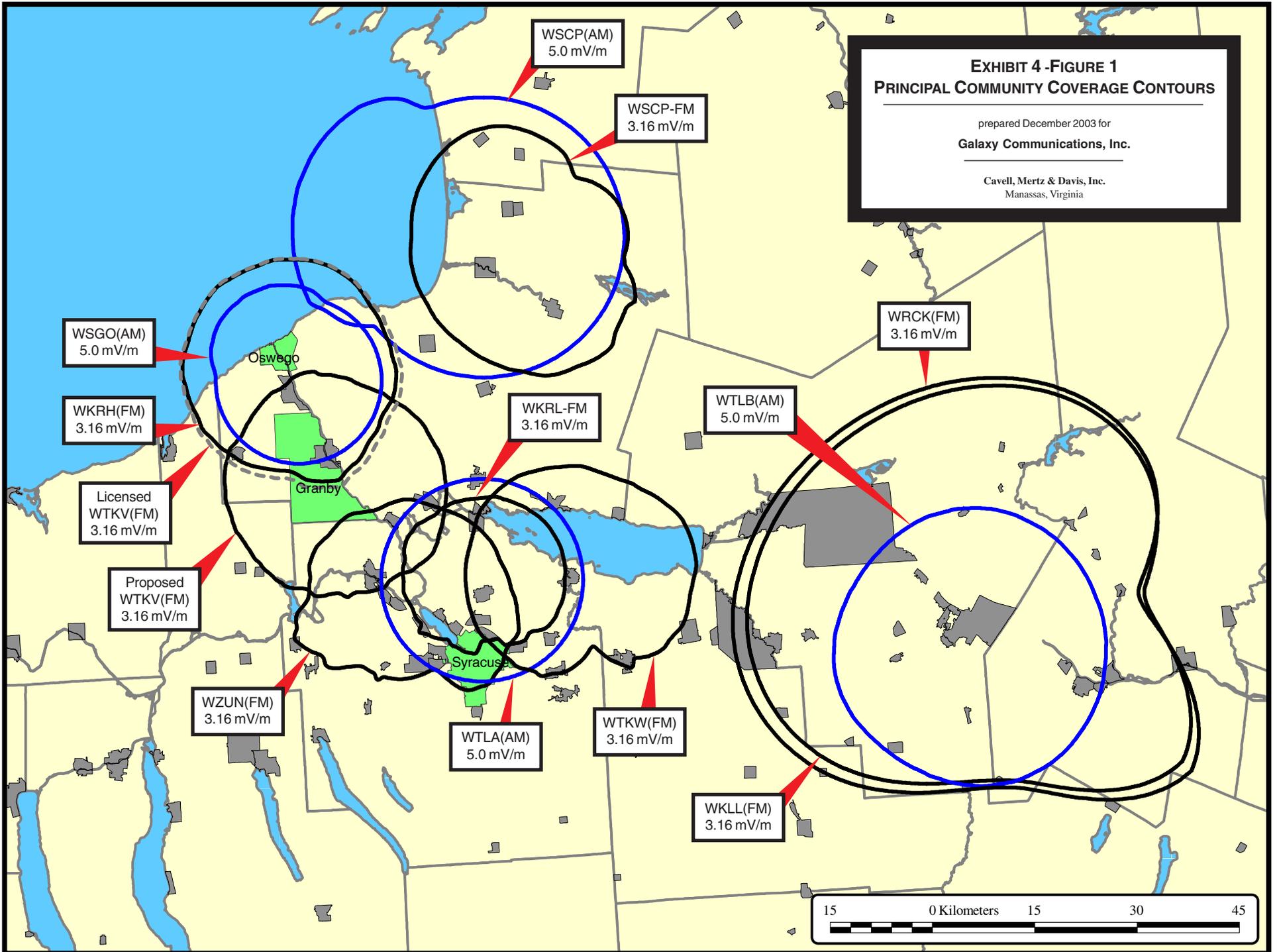
Conclusion

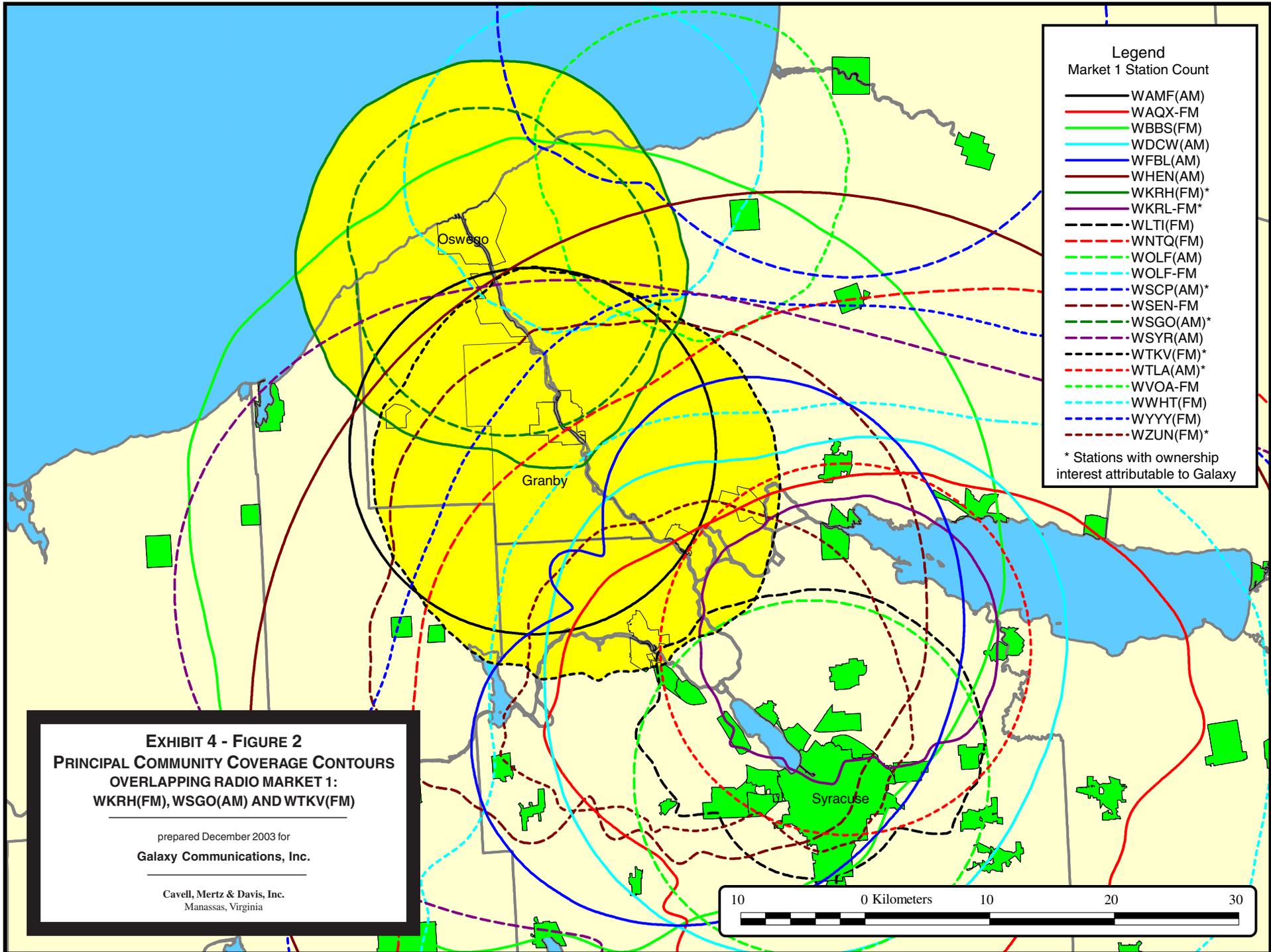
As demonstrated by the foregoing, *Galaxy's* proposed relocation of WTKV(FM) is permissible pursuant to Section 73.3555(a)(1)(i) of the Commission's Rules. WTKV(FM)'s move will result in ownership of two FM and one AM station in Radio Market One, ownership of three FM and one AM station in Radio Market Two, no impact to Radio Market Three, and a reduction of stations defining a market in Radio Market Four. The station count for each market exceeds 15 stations and no more than three of the proposed stations in any market is of the same service. Thus, the proposal complies with and is consistent with Section 73.3555 regarding multiple ownership of radio broadcast stations.

**EXHIBIT 4 -FIGURE 1
PRINCIPAL COMMUNITY COVERAGE CONTOURS**

prepared December 2003 for
Galaxy Communications, Inc.

Cavell, Mertz & Davis, Inc.
Manassas, Virginia





- Legend**
Market 1 Station Count
- WAMF(AM)
 - WAQX-FM
 - WBBS(FM)
 - WDCW(AM)
 - WFBL(AM)
 - WHEN(AM)
 - WKRH(FM)*
 - WKRL-FM*
 - - - - - WLTJ(FM)
 - - - - - WNTQ(FM)
 - - - - - WOLF(AM)
 - - - - - WOLF-FM
 - - - - - WSCP(AM)*
 - - - - - WSEN-FM
 - - - - - WSGO(AM)*
 - - - - - WSYR(AM)
 - - - - - WTKV(FM)*
 - - - - - WTLA(AM)*
 - - - - - WVOA-FM
 - - - - - WWHT(FM)
 - - - - - WYYY(FM)
 - - - - - WZUN(FM)*
- * Stations with ownership interest attributable to Galaxy

EXHIBIT 4 - FIGURE 2
PRINCIPAL COMMUNITY COVERAGE CONTOURS
OVERLAPPING RADIO MARKET 1:
WKRH(FM), WSGO(AM) AND WTKV(FM)

prepared December 2003 for
Galaxy Communications, Inc.

Cavell, Mertz & Davis, Inc.
 Manassas, Virginia



Table I
Stations with Principal Community Contours Overlapping
Radio Market One: WKRH(FM), WTKV(FM), and WSGO(AM)
 prepared for
Galaxy Communications, L.P.

AM Stations

<u>Call Sign</u>	<u>Frequency</u>	<u>City of License</u>	<u>Facility ID</u>
WAMF(AM)	1300 kHz	Fulton, NY	52370
WDCW(AM)	1390 kHz	Syracuse, NY	34821
WFBL(AM)	1050 kHz	Baldwinsville, NY	7712
WHEN(AM)	620 kHz	Syracuse, NY	7080
WOLF(AM)	1490 kHz	Syracuse, NY	73380
WSCP(AM)	1070 kHz	Sandy Creek-Pulaski, NY	1046
WSGO(AM)	1440 kHz	Oswego, NY	24130
WSYR(AM)	570 kHz	Syracuse, NY	48720
WTLA(AM)	1200 kHz	North Syracuse, NY	54546

FM Stations

<u>Call Sign</u>	<u>Channel</u>	<u>City of License</u>	<u>Facility ID</u>
WAQX-FM	239B1	Manlius, NY	52606
WBBS(FM)	284B	Fulton, NY	48730
WKRH(FM)	293A	Minetto, NY	56996
WKRL-FM	265A	North Syracuse, NY	54547
WLTI(FM)	290A	Syracuse, NY	58719
WNTQ(FM)	226B	Syracuse, NY	50514
WOLF-FM	244A	Oswego, NY	5344
WSEN-FM	221B1	Baldwinsville, NY	7716
WTKV(FM)	288A	Oswego, NY	24131
WVOA-FM	280A	Mexico, NY	67058
WWHT(FM)	300B	Syracuse, NY	57842
WYYY(FM)	233B	Syracuse, NY	48725
WZUN(FM)	271A	Phoenix, NY	60253

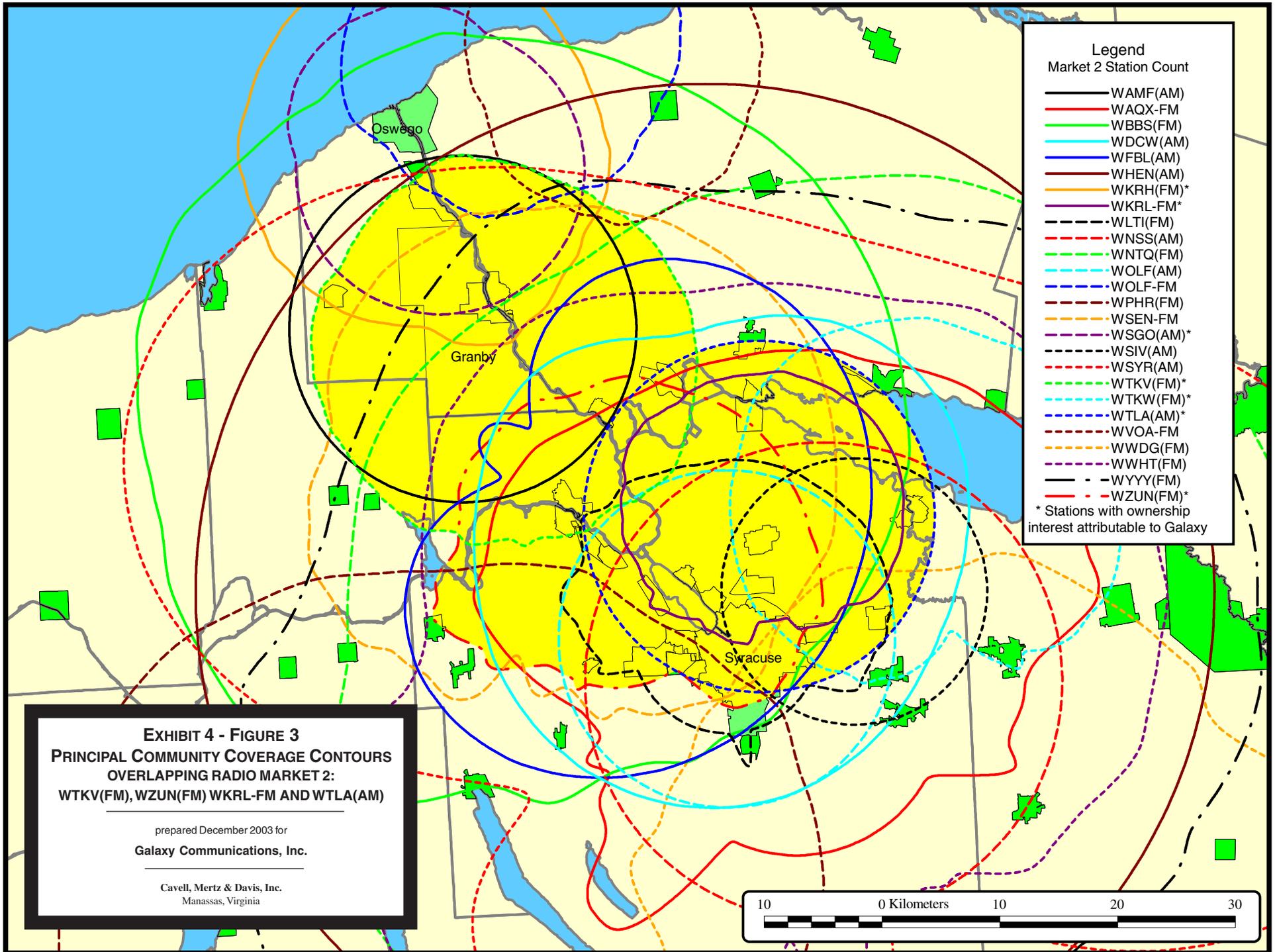


Table II
Stations with Principal Community Contours Overlapping
Radio Market Two: WTKV(FM), WZUN(FM), WKRL-FM, and WTLA(AM)
 prepared for
Galaxy Communications, L.P.

AM Stations

<u>Call Sign</u>	<u>Frequency</u>	<u>City of License</u>	<u>Facility ID</u>
WAMF(AM)	1300 kHz	Fulton, NY	52370
WDCW(AM)	1390 kHz	Syracuse, NY	34821
WFBL(AM)	1050 kHz	Baldwinsville, NY	7712
WHEN(AM)	620 kHz	Syracuse, NY	7080
WNSS(AM)	1260 kHz	Syracuse, NY	50515
WOLF(AM)	1490 kHz	Syracuse, NY	73380
WSGO(AM)	1440 kHz	Oswego, NY	24130
WSIV(AM)	1540 kHz	East Syracuse, NY	22133
WSYR(AM)	570 kHz	Syracuse, NY	48720
WTLA(AM)	1200 kHz	North Syracuse, NY	54546

FM Stations

<u>Call Sign</u>	<u>Channel</u>	<u>City of License</u>	<u>Facility ID</u>
WAQX-FM	239B1	Manlius, NY	52606
WBBS(FM)	284B	Fulton, NY	48730
WKRH(FM)	293A	Minetto, NY	56996
WKRL-FM	265A	North Syracuse, NY	54547
WLTI(FM)	290A	Syracuse, NY	58719
WNTQ(FM)	226B	Syracuse, NY	50514
WOLF-FM	244A	Oswego, NY	5344
WPHR(FM)	295B	Auburn, NY	25018
WSEN-FM	221B1	Baldwinsville, NY	7716
WTKV(FM)	288A	Oswego, NY	24131
WTKW(FM)	258A	Bridgeport, NY	22234
WVOA-FM	280A	Mexico, NY	67058
WWDG(FM)	286B	DeRuyter, NY	22134
WWHT(FM)	300B	Syracuse, NY	57842
WYYY(FM)	233B	Syracuse, NY	48725
WZUN(FM)	271A	Phoenix, NY	60253

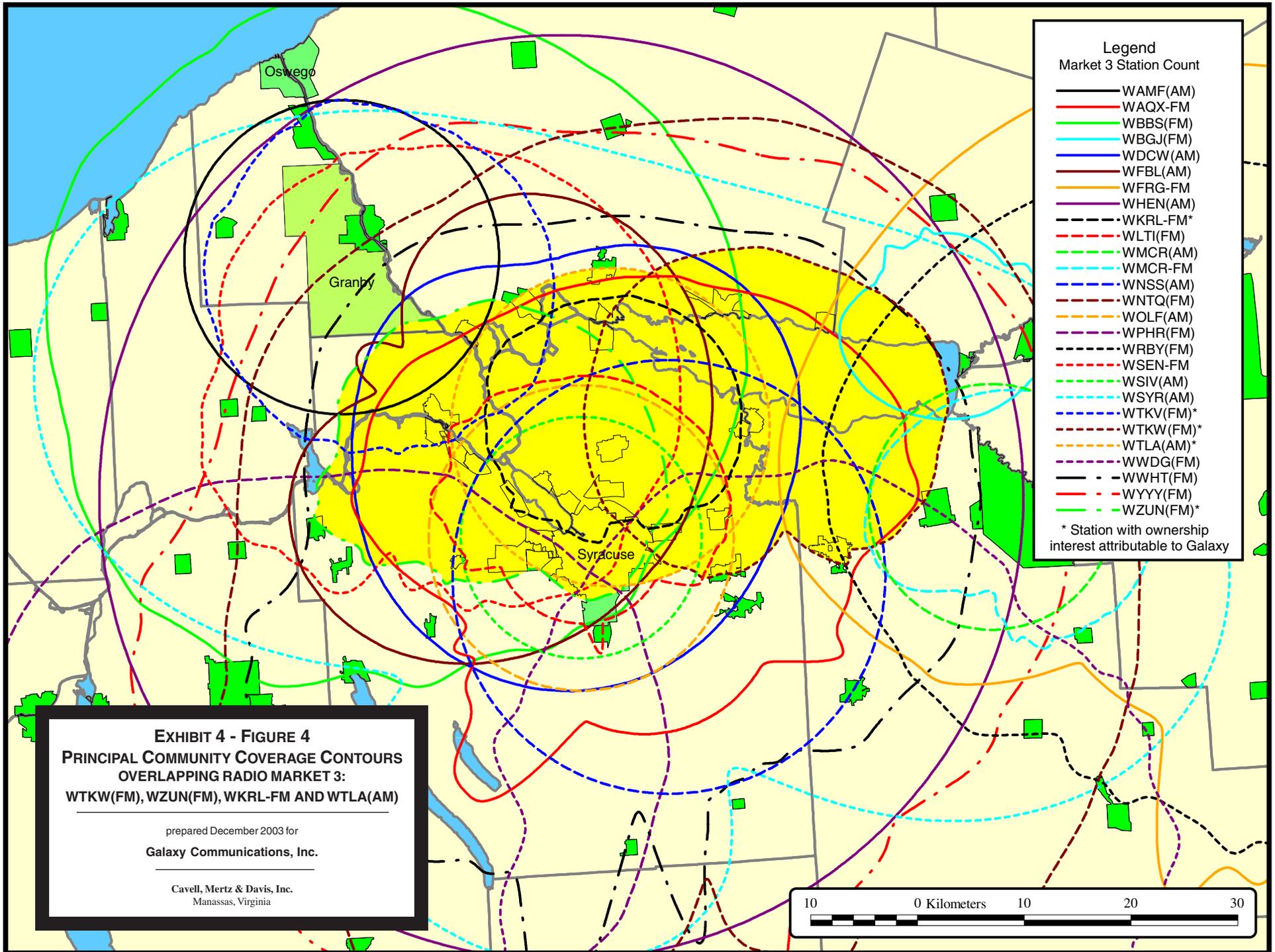


Table III
Stations with Principal Community Contours Overlapping
Radio Market Three: WZUN(FM), WTLA(AM), WKRL-FM, and WTKW(FM)
 prepared for
Galaxy Communications, L.P.

AM Stations

<u>Call Sign</u>	<u>Frequency</u>	<u>City of License</u>	<u>Facility ID</u>
WAMF(AM)	1300 kHz	Fulton, NY	52370
WDCW(AM)	1390 kHz	Syracuse, NY	34821
WFBL(AM)	1050 kHz	Baldwinsville, NY	7712
WHEN(AM)	620 kHz	Syracuse, NY	7080
WMCR(AM)	1600 kHz	Oneida, NY	70890
WNSS(AM)	1260 kHz	Syracuse, NY	50515
WOLF(AM)	1490 kHz	Syracuse, NY	73380
WSIV(AM)	1540 kHz	East Syracuse, NY	22133
WSYR(AM)	570 kHz	Syracuse, NY	48720
WTLA(AM)	1200 kHz	North Syracuse, NY	54546

FM Stations

<u>Call Sign</u>	<u>Channel</u>	<u>City of License</u>	<u>Facility ID</u>
WAQX-FM	239B1	Manlius, NY	52606
WBBS(FM)	284B	Fulton, NY	48730
WBGJ(FM)	262A	Sylvan Beach, NY	85534
WFRG-FM	282B	Utica, NY	50362
WKRL-FM	265A	North Syracuse, NY	54547
WLTI(FM)	290A	Syracuse, NY	58719
WMCR-FM	292A	Oneida, NY	58038
WNTQ(FM)	226B	Syracuse, NY	50514
WPHR(FM)	295B	Auburn, NY	25018
WRBY(FM)	273B	Rome, NY	53656
WSEN-FM	221B1	Baldwinsville, NY	7716
WTKV(FM)	288A	Oswego, NY	24131
WTKW(FM)	258A	Bridgeport, NY	22234
WWDG(FM)	286B	DeRuyter, NY	22134
WWHT(FM)	300B	Syracuse, NY	57842
WYYY(FM)	233B	Syracuse, NY	48725
WZUN(FM)	271A	Phoenix, NY	60253

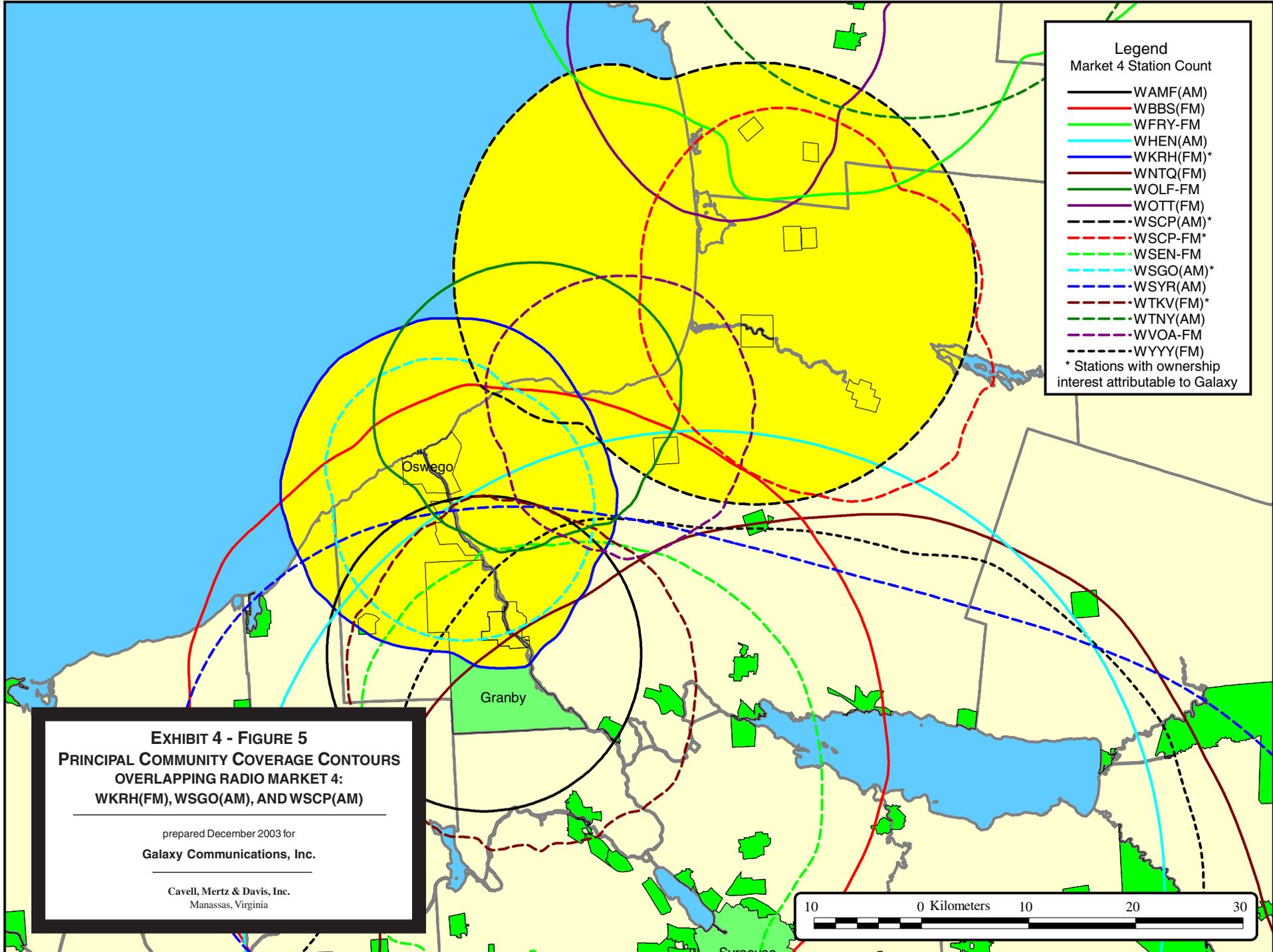


Table IV
Stations with Principal Community Contours Overlapping
Radio Market Four: WSCP(AM), WSGO(AM), and WKRH(FM)
 prepared for
Galaxy Communications, L.P.

AM Stations

<u>Call Sign</u>	<u>Frequency</u>	<u>City of License</u>	<u>Facility ID</u>
WAMF(AM)	1300 kHz	Fulton, NY	52370
WHEN(AM)	620 kHz	Syracuse, NY	7080
WSCP(AM)	1070 kHz	Sandy Creek-Pulaski, NY	1046
WSGO(AM)	1440 kHz	Oswego, NY	24130
WSYR(AM)	570 kHz	Syracuse, NY	48720
WTNY(AM)	790 kHz	Watertown, NY	154

FM Stations

<u>Call Sign</u>	<u>Channel</u>	<u>City of License</u>	<u>Facility ID</u>
WBBS(FM)	284B	Fulton, NY	48730
WFRY-FM	248C1	Watertown, NY	71094
WKRH(FM)	293A	Minetto, NY	56996
WNTQ(FM)	226B	Syracuse, NY	50514
WOLF-FM	244A	Oswego, NY	5344
WOTT(FM)	264A	Henderson, NY	30799
WSCP-FM	269A	Pulaski, NY	1047
WSEN-FM	221B1	Baldwinsville, NY	7716
WTKV(FM)	288A	Oswego, NY	24131
WVOA-FM	280A	Mexico, NY	67058
WYYY(FM)	233B	Syracuse, NY	48725