

Exhibit B-16
WQMG-FM Channel 246CØ Greensboro, NC
Allocation Study

Spacing Study

The attached spacing study shows that the proposed operation meets the co-channel and adjacent channel spacing requirements for Class CØ stations as prescribed in §73.207 of the Commission's Rules, with the exception of grandfathered short-spacings to four first-adjacent-channel stations: WBBB 245C Goldsboro, WKKT 245C Statesville, WXBQ 245C Bristol, and WKBC 247C North Wilkesboro. Each of these short-spacings has existed since prior to November 16, 1964. Therefore, an analysis has been conducted in accordance with §73.213(a) of the Commission's Rules.

The proposed WQMG facility will operate from the same tower as the licensed WQMG facility, but at a reduced height and with a modified directional antenna envelope pattern.

The proposed WQMG facility will not result in any contour overlap with WXBC 245C Bristol, as demonstrated on the attached *Allocation Study Map 1*. Therefore, the proposed facility is believed to be in compliance with §73.213(a) with respect to WXBC and no further analysis is necessary with respect to that station.

Both the present and proposed WQMG facilities have contour overlap with WBBB 245C Goldsboro, WKKT 245C Bristol, and WKBC 247C North Wilkesboro. A new directional antenna envelope pattern has been designed for WQMG which will ensure that the

proposed 60 dBu F(50,50) and 54 dBu F(50,10) contours will not extend past the licensed WQMG contours in the directions of the three short-spaced stations. This is demonstrated on the attached *Allocation Study Map 2* and *Allocation Study Map 3*, and has been verified against large-scale maps. Therefore, since no new areas of interference will be caused to the three short-spaced stations, and indeed interference will be slightly reduced, the proposed facility is believed to be in compliance with §73.213(a) with respect to WBBB, WKKT, and WKBC.

SEARCH PARAMETERS

FM Database Date: 030505

Channel: 246C0 97.1 MHz
 Latitude: 35 56 42
 Longitude: 79 51 45
 Safety Zone: 32 km
 Job Title: WQMG GREENSBORO

Call Status	City St	FCC File No.	Channel Freq.	ERP(kW) HAAT(m)	Latitude Longitude	Bearing deg-True	Dist (km)	Req (km)
W243AL CP	BROWNS SUMMIT NC	BPF-010207AAN	243D 96.5	0.010 112.0	36- 9-10 79-45- 8	23.2	25.10 0.00	0 TRANS
W243AL LIC	BROWNS SUMMIT NC	BLFT-001218ACX	243D 96.5	0.010 110.0	36-13-20 79-41-47	25.8	34.21 0.00	0 TRANS
NEW-T APP	WINSTON-SALEM NC	BNPFT-030317HZD	243D 96.5	0.010 95.0	36- 9-18 80-16-40	302.1	44.08 0.00	0 TRANS
NEW-T APP	ASHEBORO NC	BNPFT-030317BFS	244D 96.7	0.010 169.0	35-41-10 79-49- 6	172.1	29.00 0.00	0 TRANS
WKRX LIC	ROXBORO NC	BLH-6712	244A 96.7	3.000 91.0	36-22- 4 78-59-58	58.5	90.73 4.73	86 CLOSE
WBBB LIC	GOLDSBORO NC	BLH-870828KI	245C 96.9	100.000 300.0	35-23-52 78- 8- 7	110.8	167.75 -52.25	220 SHORT
WKKT LIC	STATESVILLE NC	BLH-860402KB	245C 96.9	100.000 DA 472.0	35-31-57 80-47-47	241.7	96.08 -123.92	220 SHORT
WKKTaux CP	STATESVILLE NC	BXPH-010227AAD	245C 96.9	5.900 139.7	35-11-32 80-53-13	228.2	124.90 0.00	0 AUX
WXBQ-FM LIC	BRISTOL TN	BLH-950914KB	245C 96.9	75.000 DA 683.0	36-25-59 82- 8-11	285.6	211.58 -8.42	220 SHORT
NEW-T APP	CAVE SPRING VA	BNPFT-030314CCR	245D 96.9	0.010 116.0	37-17- 3 79-59-14	355.8	149.02 0.00	0 TRANS
WQMG-FM LIC	GREENSBORO NC	BLH-990402KA	246C 97.1	100.000 DA 375.0	35-56-42 79-51-45	0.0	0.00 -281.00	281 SHORT
NEW-T APP	FLORENCE SC	BNPFT-030313AGL	246D 97.1	0.080 57.0	34-16-17 79-43-34	176.1	186.09 0.00	0 TRANS
NEW-T APP	OLYMPIA SC	BNPFT-030310AWX	246D 97.1	0.010 198.0	34- 3-23 80-58-50	206.2	233.06 0.00	0 TRANS

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NEW-T APP	CLIFTON FORGE VA	BNPFT-030310AFH	246D 97.1	0.010 120.0	37-49-18 79-48-51	1.2	208.30 0.00	0 TRANS
NEW-T APP	CREWE VA	BNPFT-030317MJK	246D 97.1	0.010 151.0	37-11-32 78- 9-16	47.2	206.23 0.00	0 TRANS
NEW-T APP	FARMVILLE VA	BPFT-970813TB	246D 97.1	0.250 32.0	37-18- 7 78-23-38	40.5	199.83 0.00	0 TRANS
NEW-T APP	JARRATT VA	BNPFT-030317KXM	246D 97.1	0.020 95.0	36-43- 1 77-34-46	66.6	222.17 0.00	0 TRANS
NEW-T APP	BLUEFIELD WV	BNPFT-030312ARA	246D 97.1	0.010 533.0	37-15-20 81-10-50	321.5	187.24 0.00	0 TRANS
WDBS LIC	SUTTON WV	BMLH-020830ABL	246B 97.1	22.000 229.0	38-27- 5 80-27-14	349.5	283.07 11.07	272 CLEAR
NEW-T APP	FAYETTEVILLE NC	BNPFT-030317JWR	247D 97.3	0.030 79.0	35- 6-13 78-53-44	136.6	128.09 0.00	0 TRANS
NEW-T APP	HOPE MILLS NC	BNPFT-030313BKM	247D 97.3	0.050 70.0	34-58-46 78-58- 1	142.7	134.48 0.00	0 TRANS
NEW-T APP	LAURINBURG NC	BNPFT-030314CIL	247D 97.3	0.010 144.0	34-45-32 79-26-20	163.6	137.11 0.00	0 TRANS
NEW-T APP	MCCAIN NC	BNPFT-030310AEX	247D 97.3	0.010 142.0	35- 2-44 79-19-58	154.2	110.76 0.00	0 TRANS
WKBC-FM LIC	NORTH WILKESBORO NC	BLH-970711KA	247C 97.3	100.000 403.0	36- 4-34 81- 7-43	277.7	115.07 -104.93	220 SHORT
NEW-T APP	SOUTHERN PINES NC	BNPFT-030314CIY	247D 97.3	0.010 152.0	35- 9- 4 79-28-40	158.4	94.74 0.00	0 TRANS
W247AD LIC	VINTON VA	BLFT-990430UA	247D 97.3	0.020 412.0	37-20-29 79-53-57	358.8	154.99 0.00	0 TRANS
WQOK LIC	SOUTH BOSTON VA	BLH-870623KC	248C1 97.5	100.000 299.0	36-20-52 78-40- 0	67.0	116.53 22.53	94 CLEAR

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NEW-T APP	GREENSBORO NC	BNPFT-030317HYO	249D 97.7	0.010 173.0	35-58-10 80-12-55	275.0	31.94 0.00	0 TRANS
NEW-T APP	GREENSBORO NC	BNPFT-030317FOG	249D 97.7	0.010 225.0	36- 5-59 79-45-47	27.4	19.37 0.00	0 TRANS
NEW-T APP	SOUTHERN PINES NC	BNPFT-030317EGF	249D 97.7	0.010 143.0	35- 7-23 79-23- 0	154.5	101.02 0.00	0 TRANS

44444 END OF FM SPACING STUDY FOR CHANNEL 246 44444





