

WCUL-FM Short Spaced Engineering Exhibit
MainQuad Communications, Inc.

This application is being filed under FCC rule 73.215. Table 1 is a channel study for Channel 255B1 at the proposed coordinates of 37 36 52 N 77 30 56 W. There are a few mileage separation issues that we have addressed.

The reason that the allocation and application for WCUL-FM on Channel 255B1 is not a problem is self explanatory since this is an amendment to the WCUL-FM application.

The allocations and licensed stations for Orange and South Hill, VA (WCUL-FM and WKSK) were changed as a result of the Proposal for Rulemaking that changed the city of license of WCUL-FM to Midlothian, VA.

The proposed site is short spaced to WXGMFM LIC-N 256A, Gloucester, VA. However WCUL-FM is proposing a directional antenna that will protect WXGMFM. Map 1 shows the predicted protected and interfering contours for both WCUL-FM and WXGMFM. WXGMFM is listed as a 73.215 station and is protected at their current licensed facility.

The proposed site is short spaced to WNOR LIC 254B Norfolk, VA. However WCUL-FM is proposing a directional antenna that will protect WNOR. Map 2 shows the predicted protected and interfering contours for both WCUL-FM and WNOR. WNOR is protected on this map at their maximum facility from their current tower location. WNOR has filed for and received a construction permit. The construction permit is located at the same coordinates as the licensed facility. Therefore both the licensed facility and construction permit are protected.

The proposed site is short spaced to WPZZ LIC-D 257A Petersburg, VA. However WCUL-FM is proposing a directional antenna that will protect WPZZ. Map 3 shows the predicted protected and interfering contours for both WCUL-FM and WPZZ. Map 3-A shows Map 3 zoomed in to prove that there is no overlap of WCUL-FM and WPZZ. WPZZ is protected on this map at their maximum facility from their current tower location.

The proposed site is short spaced to WMZQFM LIC 254B Washington, DC However WCUL-FM is proposing a directional antenna that will protect WMZQFM. Map 4 shows the predicted protected and interfering contours for both WCUL-FM and WMZQFM. WMZQFM is protected on this map at their maximum facility from their current tower location.

This leaves the issue of 970418 APP 201A Ashland, VA. We understand that this application has recently been withdrawn.

Map 5 is the proposed coverage of WCUL-FM.

WCUL-FM
MainQuad Communications, Inc.

REFERENCE
37 36 52 N
77 30 56 W

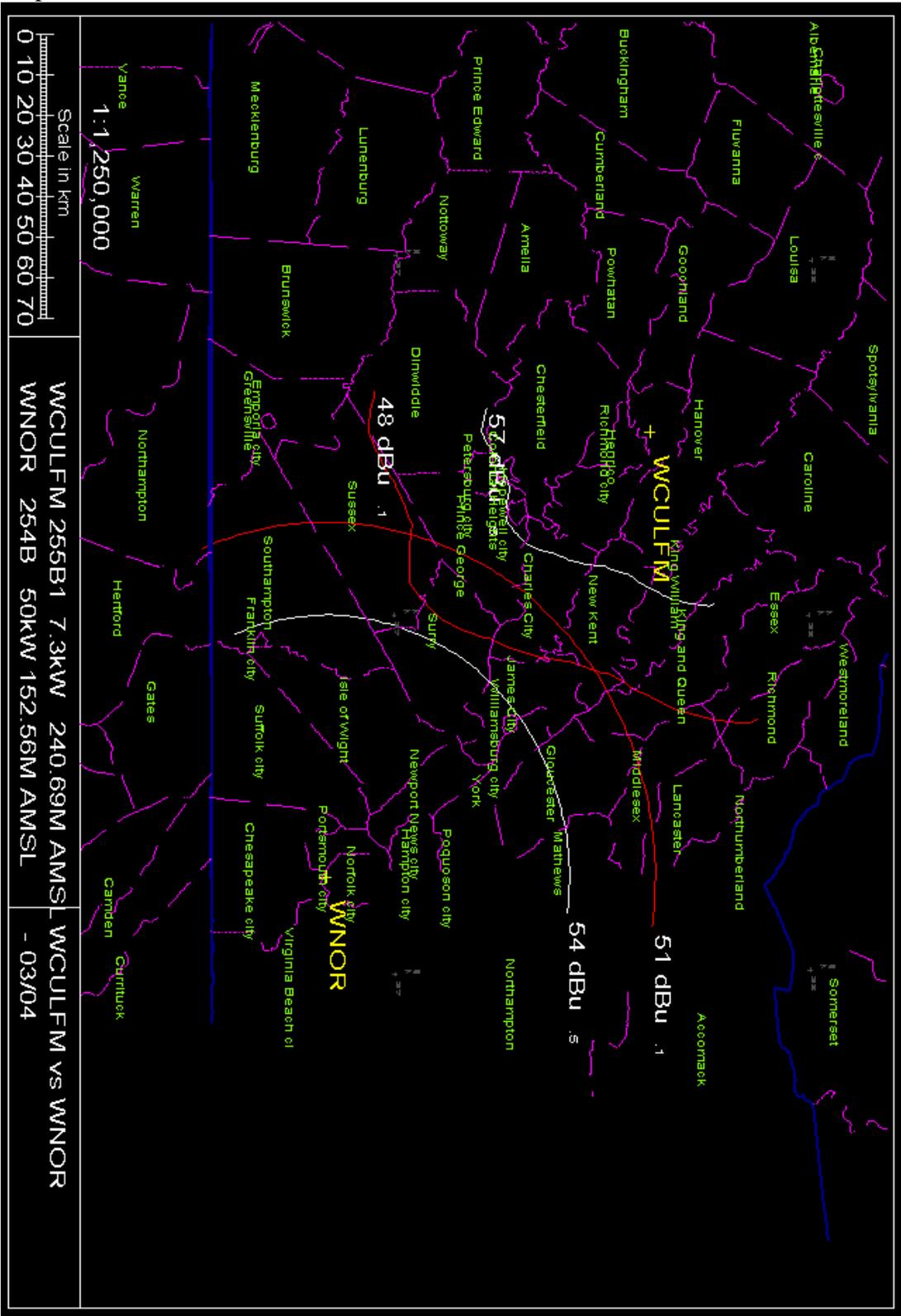
CLASS = B1
Current Spacings

DISPLAY DATES
DATA 03-02-04
SEARCH 03-24-04

----- Channel 255 - 98.9 MHz -----

Call	Channel	Location	Dist	Azi	FCC	Margin
ALLO	RSV 255B1	Midlothian	VA 20.61	262.4	175.0	-154.39
WCULFM	APP 255A	Midlothian	VA 13.62	213.7	143.0	-129.38
ALLO	USE 255C3	South Hill	VA 106.01	211.9	175.0	-68.99
WKSJFM	LIC-N 255C3	South Hill	VA 112.33	210.8	175.0	-62.67
WCULFM	LIC 255A	Orange	VA 88.70	323.4	143.0	-54.30
ALLO	USE 255A	Orange	VA 88.70	323.4	143.0	-54.30
WXGMFM	LIC-N 256A	Gloucester	VA 88.52	104.6	96.0	-7.48
ALLO	USE 256A	Gloucester	VA 89.71	103.5	96.0	-6.29
970418	APP 201A	Ashland	VA 6.31	147.2	12.0	-5.69
WNOR	LIC 254B	Norfolk	VA 140.42	127.8	145.0	-4.58
WNOR.C	CP 254B	Norfolk	VA 140.42	127.8	145.0	-4.58
ALLO	USE 254B	Norfolk	VA 140.42	127.8	145.0	-4.58
WPZZ	LIC-D 257A	Petersburg	VA 44.01	163.8	48.0	-3.99
ALLO	USE 257A	Petersburg	VA 44.01	163.8	48.0	-3.99
ALLO	USE 254B	Washington	DC 143.86	10.9	145.0	-1.14
WMZQFM	LIC 254B	Washington	DC 143.86	10.9	145.0	-1.14
970807	APP 201A	Ashland	VA 16.91	16.4	12.0	4.91
WYSKFM	LIC 257A	Spotsylvania	VA 60.61	345.1	48.0	12.61
ALLO	USE 257A	Spotsylvania	VA 60.99	344.6	48.0	12.99
970806	APP 201B1	Richmond	VA 30.13	239.7	14.0	16.13
ALLO	USE 256B	Annapolis	MD 170.75	25.7	145.0	25.75
WHFS	LIC 256B	Annapolis	MD 170.75	25.7	145.0	25.75
RADD	ADD 255C3	Bethel	NC 200.94	176.5	175.0	25.94
WSBYFM	LIC 255A	Salisbury	MD 182.50	64.7	143.0	39.50
ALLO	USE 255A	Windsor	NC 186.08	164.2	143.0	43.08
ALLO	USE 255A	Salisbury	MD 187.71	62.9	143.0	44.71
WSLQ	LIC 256C	Roanoke	VA 238.39	259.5	193.0	45.39
ALLO	USE 256C	Roanoke	VA 238.39	259.5	193.0	45.39
AP202	APP 202A	Spotsylvania	VA 60.06	0.6	12.0	48.06
RDEL	DEL 255A	Windsor	NC 194.80	166.5	143.0	51.80

Map 2



Map 3-A



