

# FM Contour Study LMS

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**Channel:** 257 **Coordinates:** 035-47-13.5 078-43-37 (NAD 83) **ERP:** .25 kW **Max. HAAT:** 188 m **Considering Only Interference Caused**

**Comment:** Proposed change in azimuth pattern. No other changes proposed.

Callsign	Chan.	Service	Status	Freq.	City	State	Co.	Rec.	Latitude	Dist. (km)	Sep. (km)	Spac. (km)
Facility ID	ARN			Class	DA	73.215	ERP (kW)	HAAT (m)	Longitude	Bear. (deg)	Comment	
<b>W254BV</b>	254	FX	L2C	98.7	CLAYTON	NC	US	C	35-40-35.6	21.24	20.12	1.12
87682	BLANK	BLFT-20121011A	D	DRI		0.25	194.1		078-32-07	125.33	<b>CLOSE</b>	
W254BV 60.0 dBu desired distance: 19.0 km Proposed 100.0 dBu undesired distance: 1.1 km												
<b>W255AM</b>	255	FX	L2C	98.9	RALEIGH	NC	US	C	35-50-45.5	10.01	12.3	-2.29
87685	BLANK	BLFT-20120709A	D	DRI		0.099	83.5		078-38-35	49.09	<b>SHORT</b>	/1/
W255AM 60.0 dBu desired distance: 11.2 km Proposed 100.0 dBu undesired distance: 1.1 km												
<b>W256AH</b>	256	FX	L2C	99.1	DURHAM	NC	US	C	36-06-29.5	40.47	42.85	-2.38
87712	BLANK	BLFT-20120418A	D	NDI		0.25	104.3		078-56-23	331.85	<b>SHORT</b>	/1/
W256AH 60.0 dBu desired distance: 16.1 km Proposed 54.0 dBu undesired distance: 26.8 km												
<b>W257CS</b>	257	FX	L2C	99.3	MORRISVILLE	NC	US	C	35-47-13.5	0	74.61	-74.61
156990	BLANK	BLFT-20190117A	D	DRI		0.25			078-43-37	0	<b>SHORT</b>	/2/
W257CS 60.0 dBu desired distance: 18.0 km Proposed 40.0 dBu undesired distance: 56.6 km												
<b>WZAX</b>	257	FM	L2C	99.3	NASHVILLE	NC	US	C	35-57-01.6	71.87	86.67	-14.8
76264	BLANK	BLH-20050819A	A	NDI		6	100		077-57-24.9	75.1	<b>SHORT</b>	/1/
WZAX 60.0 dBu desired distance: 30.1 km Proposed 40.0 dBu undesired distance: 56.6 km												
<b>WMAG</b>	258	FM	MOD	99.5	HIGH POINT	NC	US	C	35-52-13.5	101	112.94	-11.94
73258	BLANK	BMLH-201110207	C	DRI		100	456		079-50-24.1	275.6	<b>SHORT</b>	/1/
WMAG 60.0 dBu desired distance: 86.2 km Proposed 54.0 dBu undesired distance: 26.8 km												
<b>WCMC-FM</b>	260	FM	L2C	99.9	HOLLY SPRINGS	NC	US	C	35-40-35.6	21.24	55.47	-34.23
51760	BLANK	BLH-20100423A	C2	NDI		26.5	206		078-32-07	125.33	<b>SHORT</b>	/3/
WCMC-FM 60.0 dBu desired distance: 54.4 km Proposed 100.0 dBu undesired distance: 1.1 km												

## Notes:

/1/ - Contour overlap requirements are met. See allocation study map.

/2/ - Applicant's licensed facility.

/3/ - Although the contour overlap requirements are not met, it is demonstrated herein that no interference will be caused to any accessible areas. A waiver of Section 74.1204 of the FCC Rules is requested to the extent necessary under the 'Living Way' precedent since no actual interference will occur with respect to WCMC-FM. The predicted desired signal level of WCMC-FM over the proposed W257CS transmitter site is 77.8 dBu. Given a U/D interference ratio of 40 dB, the interference level would be 117.8 dBu. The predicted 117.8 dBu interfering contour will not reach ground level as demonstrated in the attached interference analysis graph. Therefore, no interference is predicted with respect to WCMC-FM.