

**EXHIBIT 12**

**FM TRANSLATOR ALLOCATION STUDY  
W283CA ST. LOUIS, MISSOURI**

**CDBS 01142016**

Search of channel 283 (104.5 MHz Class D) at 38-38-08.8 N, 90-11-44.6 W.

<u>CALL</u>	<u>CITY</u>	<u>ST</u>	<u>CHN</u>	<u>CL</u>	<u>DIST</u>	<u>SEP</u>	<u>BRNG</u>	<u>CLEARANCE</u>	
WHHL	HAZELWOOD	MO	281	C2	7.91	0.00	283.4	-36.09 dB	1
KBWX	COLUMBIA	IL	285	C3	13.20	0.00	238.8	-20.60 dB	2
W283CA	HIGHLAND	IL	283	D	48.85	0.00	73.2	-9.75 dB	3
KSD	ST. LOUIS	MO	229	C1	13.20	22.00	237.6	-8.80 dB	4
W283CA	ST. LOUIS	MO	283	D	0.00	0.00	90.0	-40.48 dB	5
K283CA	FESTUS	MO	283	D	52.75	0.00	201.5	4.78 dB	
WFMB-FM	SPRINGFIELD	IL	283	B	133.37	0.00	20.4	5.61 dB	
KSLQ-FM	WASHINGTON	MO	283	A	64.45	0.00	266.8	10.76 dB	
WNSV	NASHVILLE	IL	284	A	79.97	0.00	106.1	16.02 dB	

Notes:

- 1 The WHHL signal at the proposed translator site is 95.5 dBu. A lack of interference to WHHL will be demonstrated using the Free Space methodology.
- 2 The KBWX signal at the proposed translator site is 80 dBu. A lack of interference to KBWX will be demonstrated using the Free Space methodology.
- 3 This contour overlap is required for the requested Mattoon waiver.
- 4 The proposed ERP is 99 watts and thus compliant with the i.f. separation requirements.
- 5 This is the authorized CP facility.