

**Engineering Study  
In Support of an  
Application for a Construction Permit  
KMAJ, Channel 299C1, Shawnee, KS**

**KMAJ Channel Spacing Study**

REFERENCE		DISPLAY DATES
39 00 45 N	CLASS = C1	DATA 06-22-04
95 01 46 W	Current Spacings	SEARCH 07-06-04
----- Channel 299 - 107.7 MHz -----		

Call	Channel	Location	Dist	Azi	FCC	Margin
<b>Community of Shawnee</b>						
		<b>KS</b>	<b>22.83</b>	<b>89.8</b>		
Reference coordinates:						
North Latitude: 39-00-46						
West Longitude: 94-45-57						
<b>RADD</b>	<b>ADD</b>	<b>299C1 Shawnee</b>	<b>KS</b>	<b>19.03</b>	<b>324.4</b>	<b>245.0 -225.97</b>
<b>KMAJFM</b>	<b>CP</b>	<b>299C Topeka</b>	<b>KS</b>	<b>76.74</b>	<b>265.4</b>	<b>270.0 -193.26</b>
<b>RDEL</b>	<b>DEL</b>	<b>299C Topeka</b>	<b>KS</b>	<b>76.81</b>	<b>271.4</b>	<b>270.0 -193.19</b>
<b>KMAJFM</b>	<b>LIC</b>	<b>299C Topeka</b>	<b>KS</b>	<b>76.81</b>	<b>271.4</b>	<b>270.0 -193.19</b>
Of no concern:						
Various coordinates used by KMAJ						
<b>KRLK</b>	<b>LIC</b>	<b>299C3 Stockton</b>	<b>MO</b>	<b>193.60</b>	<b>148.4</b>	<b>211.0 -17.40</b>
Of concern:						
KRLK moves to another site on channel 299A						
in a contingent application. Protection is afforded under \$73.215.						
<b>KRLK.A</b>	<b>APP</b>	<b>299A Stockton</b>	<b>MO</b>	<b>183.04</b>	<b>142.6</b>	<b>200.0 -16.96</b>
Of note:						
Proposed class A facility in contingent application.						
Protection afforded under \$73.215.						
<b>KCVK</b>	<b>LIC-N</b>	<b>299A Otterville</b>	<b>MO</b>	<b>188.46</b>	<b>101.5</b>	<b>200.0 -11.54</b>
Of concern:						
KCVK stays at its current site and directionalizes to protect						
KMAJ under \$73.215.						
<b>KMJK</b>	<b>LIC</b>	<b>297C Lexington</b>	<b>MO</b>	<b>95.23</b>	<b>88.0</b>	<b>105.0 -9.77</b>
Of concern:						
KMJK is downgrading to a class C0 at its current site						
in a contingent application.						
<b>KMJK</b>	<b>APP</b>	<b>297C0 Lexington</b>	<b>MO</b>	<b>95.23</b>	<b>88.0</b>	<b>94.0 1.23</b>
Of note:						
KMJK licensed facility that downgrades to a class C0 in a contingent						
application.						