



Figure 1

W215CJ Tampa, FL - Channel 215 (90.9 MHz)- MINOR CHANGE TO A LICENSED FACILITY  
THE MOODY BIBLE INSTITUTE OF CHICAGO.

Minor change showing: W215CJ proposed 60 dBu F(50,50) contour overlaps existing contour.  
1st adjacent channel study with respect to WKES showing slight overlap over water).

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**Table 1****W215CJ, MINOR CHANGE TO LICENSED FACILITY****Channel Study**

Chan	Class	Call Letters	Type	Status	City	State	Country	Owner	Distance (km)	Bearing TO (deg)	Req. Dist. (km)	Clearance (km)	Field Strength (dBu)	
213	C1	WBVM	FM	LIC	TAMPA	FL	US	BISHOP OF THE DIOCESE O	35.2	93.5	70.7	-35.5	77.03	(see note)
215	D	W215CJ	FX	LIC	TAMPA	FL	US	THE MOODY BIBLE INSTITU'	9.5	74.3	17.0	-7.5		(applicant)
216	C1	WKES	FM	LIC	LAKELAND	FL	US	THE MOODY BIBLE INSTITU1	61.6	67.4	61.8	-0.2		(primary station)
218	C0	WCIE	FM	LIC	NEW PORT RICHEY	FL	US	RADIO TRAINING NETWORK	37.7	337.4	76.0	-38.3	77.50	(see note)

**NOTE: (SEE FIGURE 2)**

(with respect to WCIE) 3rd adjacent WCIE has a field strength of 77.5 dBu F(50,50) at the proposed site. Because this field strength is greater than the field strength of WBVM, the potential for interference to WCIE is not the "worst case" factor.

(with respect to WBVM) 2nd adjacent WBVM has a field strength of 77.03 dBu F(50,50) at the proposed site. Therefore the proposed translator's interfering contour is the 117.03 dBu F(50,10) contour. At 25 watts ERP and with the antenna mounted at 10 meters AGL The proposed translator's 117.03 dBu F(50,10) extends 17 to 49 meters horizontally from the tower. However, due to placement, orientation, and pattern of the proposed antenna, the 117.03 dBu interfering contour will not contain any structures or population. Therefore this proposal is compliant with the allowance of Rule 74.1204(d).





Figure 2

W215CJ Tampa, FL - Channel 215 (90.9 MHz)- MINOR CHANGE TO A LICENSED FACILITY  
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2nd adjacent channel showing with respect to WBVM.  
The proposed 117.03 interfering contour will not contain any structures or population. Therefore  
this proposal is compliant with the allowance of Rule 74.1204(d).

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## Radiofrequency Electromagnetic Exposure Analysis

Source	Height AGL(m)	Antenna type	Bays	Horizontal ERP (kw)	Vertical ERP (kw)	Power Density $\mu\text{W}/\text{cm}^2$ at 2 meters AGL				
						within 10 meters distance	% controlled environment limit (1000 $\mu\text{W}/\text{cm}^2$ )	Max. PD	% uncontrolled environment limit (200 $\mu\text{W}/\text{cm}^2$ )	Distance to maximum PD (m)
W215CJ (proposed)	10	SCALA	1	0.025	0.000	3.620	0.4%	3.62	1.81%	4.6
						3.6	<b>0.4%</b>	3.6	<b>1.8%</b>	4.6

The proposed facility is excluded from environmental processing under 47. C.F.R. Section 1.1306 (i.e., The facility will not have a significant environmental impact and complies with the maximum permissible radiofrequency electromagnetic exposure limits for controlled and uncontrolled environments).

Calculations made using FCC FMModel

In the absence of specific antenna information, "Dipole (EPA)" is assumed ("worst case")