

Table 1 - 74.807 Channel Study
NEW MONTGOMERY, AL - RIVER REGION HANDS OF HOPE
TOWER 1264208 December 2023 (Ch.212L1 proposed)

Chan	Class	Call Letters	Type	Status	City	State	Country	Owner	Bearing TO (deg)	Distance (km)	Req. Dist. (km)	Clearance (km)	Field Strength (dBu)
210	C1	WTSU	FM	L-AMD	MONTGOMERY-TROY	AL	US	TROY UNIVERSITY	139.8	43.7	73.0	-29.3	71.9 (See NOTE)
211	C2	WLGO	FM	C-MOD	SAWYERVILLE	AL	US	NATIONAL ASSOCIATIC	286.8	136.0	80.0	56.0	
212	C1	WBHM	FM	L-L2C	BIRMINGHAM	AL	US	BD OF TRUSTEES/U OF	340.5	132.7	111.0	21.7	
212	C2	WDYF	FM	L-L2C	DOTHAN	AL	US	FAITH BROADCASTING	149.3	133.7	91.0	42.7	
213	A	WZEV	FM	L-L2C	LINEVILLE	AL	US	B. JORDAN COMMUNI	29.3	119.5	56.0	63.5	
213	A	WZEV	FM	C-MOD	LINEVILLE	AL	US	B. JORDAN COMMUNI	27.0	120.3	56.0	64.3	113.0 (See NOTE for WTSU)
213	C3	WKCC	FM	L-MOD	COLUMBUS	GA	US	EDUCATIONAL MEDIA	86.1	129.2	67.0	62.2	
214	C1	WVAS	FM	L-L2C	MONTGOMERY	AL	US	ALABAMA STATE UNIV	79.4	2.6	73.0	-70.4	
214	A	WVUA-FM	FM	C-MOD	TUSCALOOSA	AL	US	THE BOARD OF TRUSTI	310.5	147.2	29.0	118.2	
214	A	WVUA-FM	FM	L-L2C	TUSCALOOSA	AL	US	THE BOARD OF TRUSTI	309.7	148.5	29.0	119.5	

Terrain data DEM: NED-1

NOTE: Second adjacent-channel waiver showing with respect to WTSU.

Second adjacent WTSU has a field strength of 71.9 dBu at the proposed NEW site. Therefore the proposed translator's interfering contour is the 112 dBu F(50,10) contour. At 56 watts ERP and with the antenna mounted at 27 meters AGL the proposed translator's 112 dBu F(50,10) extends 133 meters horizontally from the tower. However, due to mounting height and the vertical elevation pattern of the proposed antenna, the 112 dBu interfering contour will remain far above ground level and will not contain any structures or population. The translator's 112 dBu contour will remain at least 8.7 meters above ground level. Therefore this proposal is compliant with the allowance of Rule 74.1204(d).

PROPOSED:
Service: FL
32 21 43.2 N
86 19 16.1 W
Ch.212L1 (90.3 MHz)
ERP: 0.056 kW
Ant.: OMNI
Hgt.AGL: 27 m
Hgt.AMSL: 100.0 m
HAAT: 40.1 m
DEM: NED-1
ASR: 1311727

NEW PROP
Ch.212L1 90.3MHz
111.93 dBu F(50,10)



NEW MONTGOMERY, AL Proposed Channel 212L1 (90.3 MHz)
RIVER REGION HANDS OF HOPE - TOWER 1264208

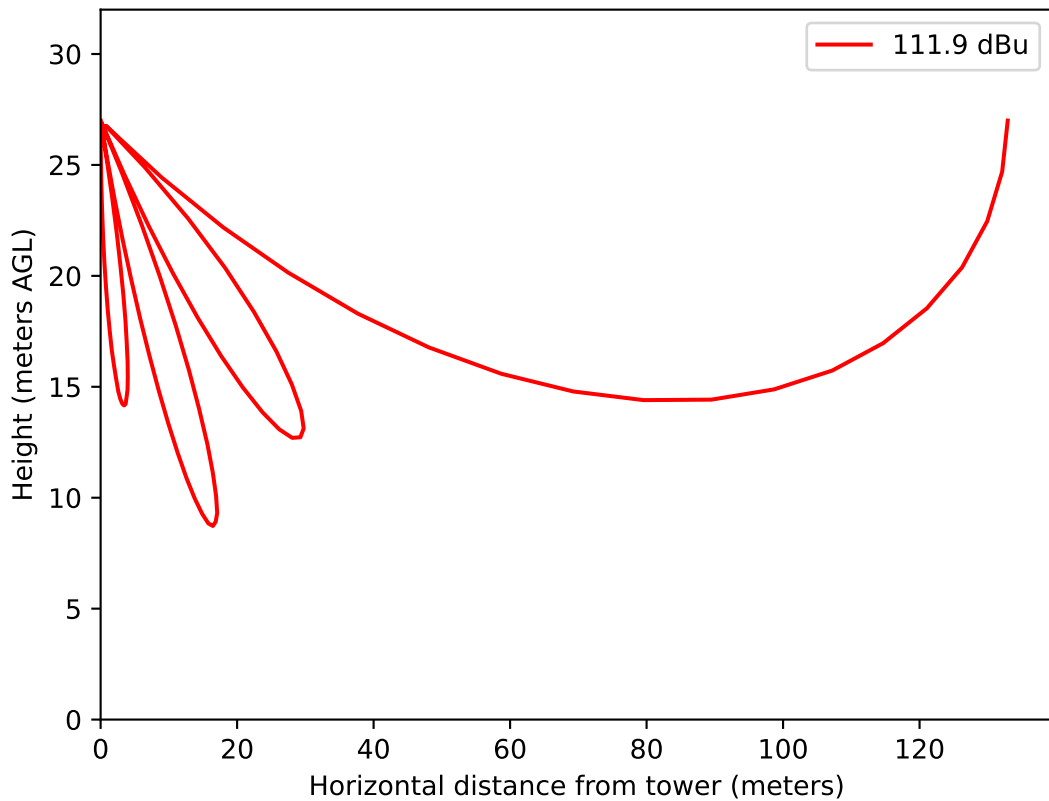
0 20 40 80 Meters

Figure 4

Second adjacent-channel waiver showing with respect to WTSU. WTSU has a field strength of 71.9 dBu F(50,50) at the proposed site.

Robert J. Robbins, Ph.D.
www.radiodataservices.com
radiodataservices@radiodataservices.com
(305) 234-9309

Interference bubble



Source	File No.	Fac.ID	Height AGL(m)	Antenna type	Bays	Horizontal ERP (kw)	Vertical ERP (kw)	within 10 meters distance	% controlled environment limit (1000 μ W/cm ²)	Max. PD	% uncontrolled environment limit (200 μ W/cm ²)	Distance to maximum PD (m)
WKEM-LP	199486	195515	27	NICOM BKG77	1**	0.045	0.045	2.9	0.3	2.9	1.4	7
NEW	TBD	TBD	27	TBD TBD	1**	0.056	0.056	3.6	0.4	3.6	1.8	7
TOTAL								6.4	0.6	6.5	3.2	

** Actual antenna will be the existing 4-bay shared master antenna. Revised FCC FM Model.