

# Radio Training Network Inc.

P O Box 7217

Lakeland, FL 33807-7217

## Channel Spacing Report for Channel 266 Athens, GA

ComStudy 2.2 search of channel 266 (101.1 MHz Class D)  
at 33-56-28.0 N, 83-23-55.0 W.

CALL	CITY	ST	CHN	CL	DIST	SEP	BRNG	CLEARANCE	
WPPP-LP	ATHENS	GA	264	LP100	1.77	6.00	96.6	-56.92 dB	*b
W266AH	ATHENS	GA	266	D	7.53	0.00	75.1	-46.92 dB	*a
WUOG	ATHENS	GA	213	C2	1.77	15.00	56.6	-13.2	*c
WJES	MAYSVILLE	GA	265	A	49.62	0.00	332.1	0.58 dB	
W266BW	WINDER	GA	266	D	88.29	0.00	260.5	5.20 dB	
WLJA-FM	ELLIJAY	GA	266	D	133.90	0.00	310.4	6.34 dB	
WKHX-FM	MARIETTA	GA	268	C0	88.30	0.00	260.5	6.05 dB	
WROQ	ANDERSON	SC	266	C1	130.14	0.00	52.5	11.34 dB	
WKHX-FM	MARIETTA	GA	268	C0	88.42	0.00	260.6	12.38 dB	
WROQ	ANDERSON	SC	266	C1	130.14	0.00	52.5	17.91 dB	
WLJA-FM	ELLIJAY	GA	266	C3	125.44	0.00	304.9	18.24 dB	
WNNX	COLLEGE PARK	GA	263	C2	93.80	0.00	257.8	20.02 dB	
W267CR	WASHINGTON	GA	267	D	66.94	0.00	110.0	20.90 dB	
WSSL-FM	GRAY COURT	SC	263	C0	137.61	0.00	59.0	20.81 dB	
WNNX	COLLEGE PARK	GA	263	C2	91.60	0.00	256.4	20.99 dB	
WTGA-FM	THOMASTON	GA	266	A	138.82	0.00	220.5	24.03 dB	
WLJA-FM	ELLIJAY	GA	266	C3	134.18	0.00	310.3	24.65 dB	
WSSL-FM	GRAY COURT	SC	263	C0	137.93	0.00	59.0	25.27 dB	
W265DG	MCDONOUGH	GA	265	D	88.46	0.00	230.2	25.77 dB	
W267AD	CHEROKEE	NC	267	D	153.88	0.00	2.1	29.32 dB	
WGOG	WALHALLA	SC	269	A	106.55	0.00	16.9	30.07 dB	
WTHO-FM	THOMSON	GA	269	A	96.86	0.00	122.3	32.13 dB	
WLRR	MILLEDGEVILLE	GA	264	A	93.24	0.00	169.7	32.53 dB	
W265AZ	FRANKLIN	NC	265	D	137.72	0.00	353.1	33.33 dB	
WQIL	CHAUNCEY	GA	267	C2	174.74	0.00	171.4	34.47 dB	
WUSY	CLEVELAND	TN	264	C0	222.99	0.00	309.7	35.62 dB	
WAKB	HEPHZIBAH	GA	265	C3	137.60	0.00	116.7	35.71 dB	
W265AV	WOODSTOCK	GA	265	D	110.93	0.00	280.1	36.81 dB	
WUSY	CLEVELAND	TN	264	C0	222.99	0.00	309.7	36.75 dB	

\*a Current Licensed facility for this application

\*b Translators do not have to protect LP100 station on 2<sup>nd</sup> adjacent

\*c This application is for less than 100 Watts ERP and is exempt from IF separation requirement spacing to WAVF.

## **COMPLIANCE, SECTION 74.1204**

The channel spacing report shows that the proposed Facility is in compliance with 74.1204 regarding protection of all other stations.

Translators only have to provide interference protection to LPFM facilities on co-channel and 1<sup>st</sup> adjacent channels. There is no separation requirement regarding WPPP-LP on Channel 264.

Because the proposed facility is less than 100 watts ERP, it is exempt from IF channel separation.

Should any actual interference occur, then Licensee will promptly reduce power or suspend operation of this translator in accordance with 47 C.F.R. 74.1203.

This proposed facility will transmit into a combined antenna system with WPUP. Tests will be made of the combined system to insure there are no spurious emissions outside of FCC spectrum limits before the license application is filed and normal operation begins.

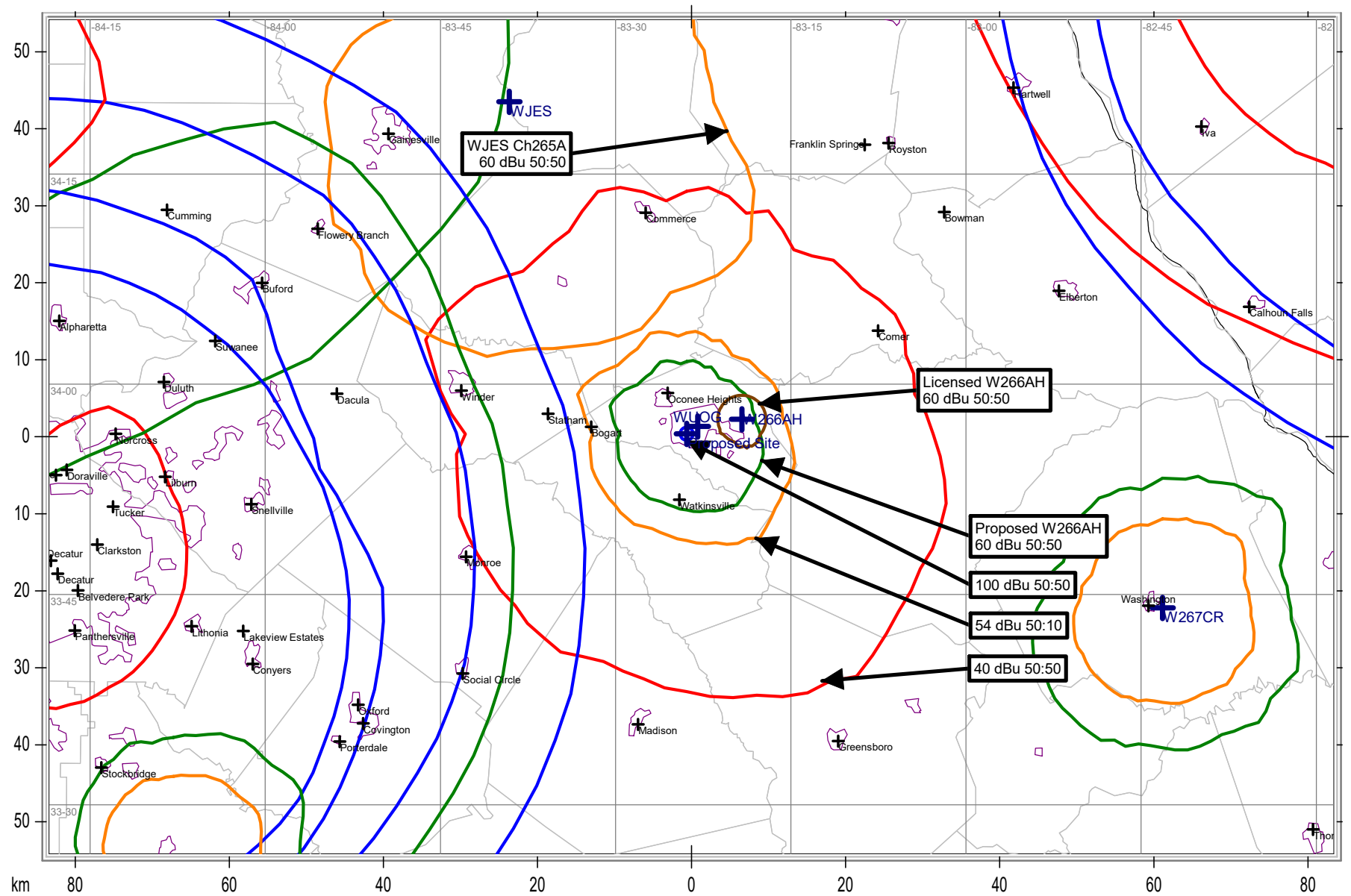
### **Environmental and RF Exposure Compliance**

The proposed translator site is on an existing tower with other communication facilities and will not involve any new construction.

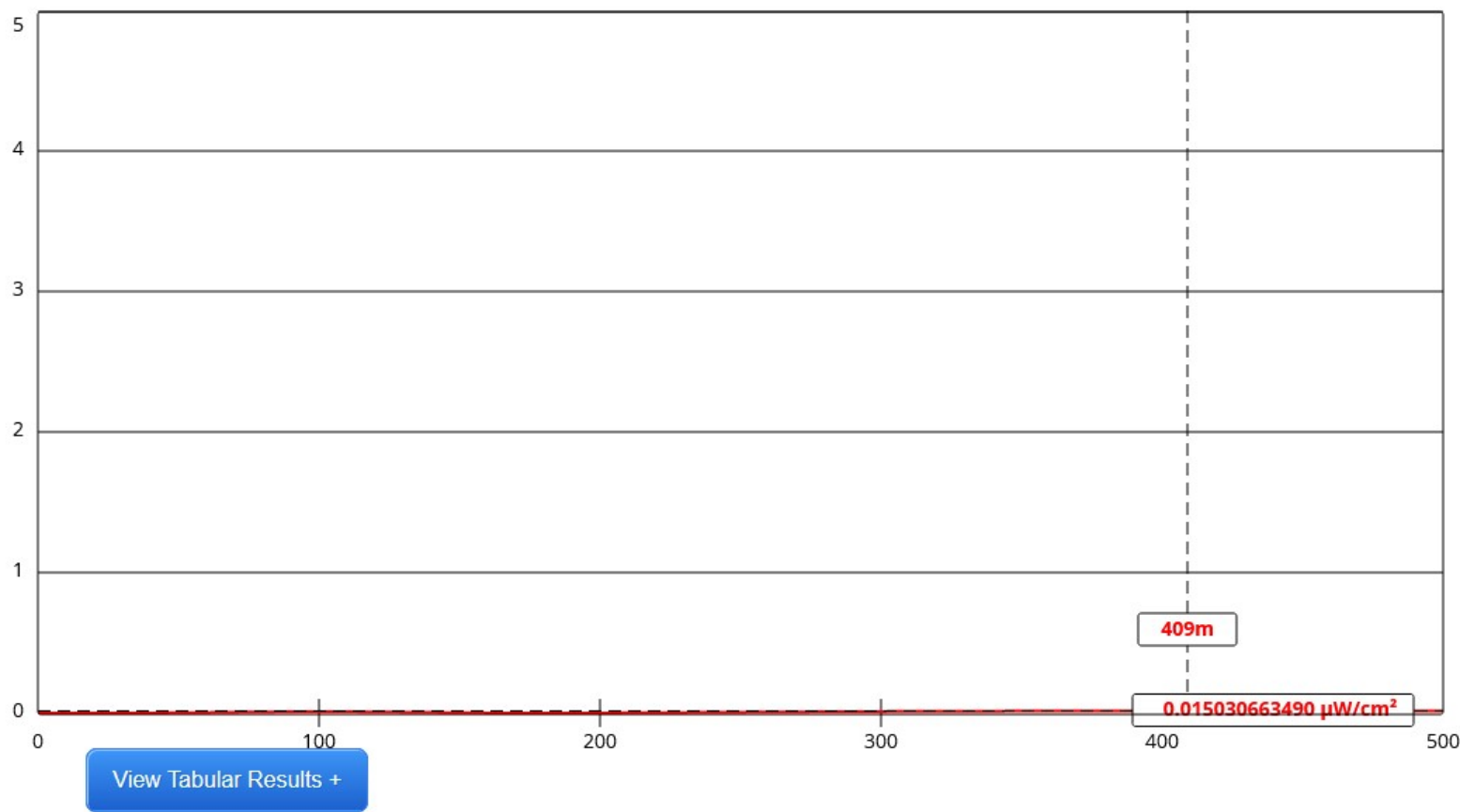
A study was done with the EPA FM Model computer program to determine how much RF radiation this application will contribute to the site. Based on the power, antenna type and height, this facility will generate less than 0.02 uw/cm<sup>2</sup> at 2 meters above ground. The limit for uncontrolled public exposure is 200 uw/cm<sup>2</sup>, therefore, this facility will contribute less than 0.01% of the MPE limit for general population/uncontrolled exposure. The tower is gated and not accessible by the general population.

Based on this analysis, this application appears to be in compliance with FCC guidelines for human exposure to radiofrequency electromagnetic fields.

W266AH Athens Ga Contour Map



The FM Model calculator determines the potential exposure from radiofrequency (RF) electromagnetic fields produced by FM broadcast station antennas at ground level. The FM Model software was originally developed by the FCC in 1997 as a standalone executable program and this improved version provides more precise predictions and runs via a JavaScript enabled web browser. The FM Model is originally based on measured data [published in 1985 by the EPA](#). [Show More....](#)



Channel Selection	Channel 266 (101.1 MHz) ▾		
Antenna Type +	EPA Type 3: Opposed U Dipole ▾		
Height (m)	<input type="text" value="107"/>	Distance (m)	<input type="text" value="500"/>
ERP-H (W)	<input type="text" value="99"/>	ERP-V (W)	<input type="text" value="99"/>
Num of Elements	<input type="text" value="4"/>	λ	<input type="text" value=".5"/>
Num of Points	<input type="text" value="500"/>	<input type="button" value="Apply"/>	