



**W261BU TALCOTTVILLE, CT - Minor Change to Licensed Facility**  
**Minor change showing and 1st adjacent channel study**



**W261BU TALCOTTVILLE, CT - Minor Change to Licensed Facility**  
**2nd adjacent channel study with respect to WRCH**



Table 1

W261BU 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)	
263	B	WRCH	FM	LIC	NEW BRITAIN	CT	US	CBS RADIO STATIONS INC.	21.6	254.1	70.2	-48.6	(See Note and Figure 2)
261	D	W208BK	FX	APP	TALCOTTVILLE	CT	US	REVIVAL CHRISTIAN MINISTRIES, IN	10.3	72.6	28.7	-18.5	(Same as applicant)
260	B	WEZN-FM	FM	LIC	BRIDGEPORT	CT	US	COX RADIO, INC.	73.1	223.6	72.3	0.9	
258	D	W258AC	FX	LIC	STORRS	CT	US	CONNECTICUT PUBLIC BROADCASTING	27.5	76.6	6.5	21.0	
259	L1	WLCQ-LP	FL	LIC	FEEDING HILLS	MA	US	LIGHTHOUSE CHRISTIAN CENTER	36.6	351.7	8.0	28.6	
261	A	WWFX	FM	LIC	SOUTHBRIDGE	MA	US	RADIO LICENSE HOLDING CBC, LLC	77.8	47.9	38.0	39.9	
261	L1	WCSE-LP	FL	LIC	LEDYARD	CT	US	CALVARY CHAPEL OF SOUTHEASTERN	58.6	130.1	16.3	42.3	

**NOTE:** See Figure 2. (with respect to WRCH) 2nd adjacent WRCH (LIC) has a field strength of 78.8 dBu F(50,50) at the W261BU site. Therefore W261BU's interfering contour is the 118.8 dBu F(50,10) contour. W261BU's 118.8 dBu F(50,10) contour extends less than 40 meters distance from the tower. Therefore, the interfering contour does not contain any structures or population. Therefore this proposal is compliant with the allowance of Rule 74.1204(d).

## 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)
PROPOSED	10	SHI-6812B	1	0.024	0.024	5.4	0.5%	5.4	2.7%	8.2
						5.4	<b>0.5%</b>	5.4	<b>2.7%</b>	8.2

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 Equation 10 from OET Bulletin 65 and elevation pattern provided by antenna manufacturer