

WBWP-LD MINOR MOD TO LICENSE FOR CH 19 15 kW DA  
WEST PALM BEACH, FLORIDA  
ENGINEERING NARRATIVE AND RF RADIATION ENVIRONMENTAL ANALYSIS  
AUGUST 2021

WBWP-LD is a licensed LPTV facility operating on CH 19 under file number 0000125854. The proposed site, FCC tower registration #1031808, is located 8.13 kilometers from the licensed site and there is significant duplication of the licensed and proposed 51 dBu F(50,90) contours.

The proposed antenna system is an Alive Telecom model ATC-BCE512CSD-V3-19 elliptically polarized slot antenna system with 1.25 degrees electrical beam tilt. The maximum relative field in the elevation pattern across the depression angle range of 15 to 90 degrees is less than 0.15 with a radiation center 142.6 meters above ground. Utilizing formula 10 OF OET Bulletin No. 65, Edition 97-01, a value F of 0.15 has been used to calculate the power density 2 meters above ground. The maximum power density is 32.9 uw/cm squared calculated for an ERP of 15,000 watts H. polarization and 4,500 watts vertical polarization. This value is 9.89% of the Public Exposure MPE per section 1.1310. Based on this analysis it is believed that the proposed facility is in compliance with OET-65 Guidelines.

The applicant will reduce power or cease transmission as required to meet FCC OET-65 Guidelines.

The proposed tower and building are existing with access and power.

Attached is a copy of the TVStudy interference analysis for CH 19 based on the proposed 15 kW ERP and DA antenna described above with an orientation of 90 degrees. As can be seen at the conclusion there is no ISIX above FCC tolerances.

It is believed that the proposed facility provides full protection to other television facilities.

## REPORT

Study created: 2021.08.17 08:00:18

Study build station data: LMS TV 2021-08-16

Proposal: WBWP-LD D19 LD LIC WEST PALM BEACH, FL  
File number: BLANK0000125854  
Facility ID: 56130  
Station data: User record  
Record ID: 903  
Country: U.S.

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	WTCE-TV	D18	DT	LIC	FORT PIERCE, FL	BLANK0000072132	29.7 km
No	WMOR-TV	D18	DT	LIC	LAKELAND, FL	BLANK0000125736	239.9
No	WTXI-LD	D18	LD	CP	MIAMI, FL	BLANK0000068071	86.2
No	W18EU-D	D18	LD	LIC	MIAMI, FL	BLANK0000121925	86.2
No	WUVF-LD	D18	LD	LIC	NAPLES, FL	BLANK0000120837	162.5
No	W18EA-D	D18	LD	CP	SEBASTIAN, FL	BNPDTL20100402ACV	115.0
No	WESH	D19	LD	LIC	DAYTONA BEACH, FL	BLANK0000074849	337.9
No	NEW	D19	LD	CP	GAINESVILLE, FL	BNPDTL20090825ANR	378.1
No	WJAX-TV	D19	DT	LIC	JACKSONVILLE, FL	BLCDT20030328ANV	415.4
No	WEYW-LP	D19	LD	CP	KEY WEST, FL	BLANK0000143465	291.0
No	WEYW-LP	D19	LD	LIC	KEY WEST, FL	BLDTL20131108AEZ	291.0
No	W32DJ-D	D19	LD	CP	MELBOURNE, FL	BLANK0000150182	162.7
Yes	WSBS-CD	D19	DC	LIC	MIAMI, ETC., FL	BLANK0000071683	86.2
No	WFTV	D19	LD	LIC	ORLANDO, FL	BLANK0000108207	249.7
No	WTOG	D19	DT	LIC	ST. PETERSBURG, FL	BLANK0000151372	241.7
No	WMMF-LD	D19+	LD	LIC	VERO BEACH, FL	BLANK0000156792	112.7
No	WMMF-LD	N19+	TX	LIC	VERO BEACH, FL	BLTTL20070912ABV	96.7
No	WLZE-LD	D20	LD	LIC	FORT MYERS, FL	BLANK0000019273	163.9
No	WTVX	D20	DT	LIC	FORT PIERCE, FL	BLANK0000080021	47.0
No	WSCF-LD	D20	LD	LIC	MELBOURNE, FL	BLANK0000022690	162.8
No	WLMF-LD	D20	LD	LIC	MIAMI, FL	BLANK0000144080	99.2
No	WFUN-LD	D20	LD	LIC	MIAMI, FL	BLANK0000144274	99.2

No	WZXZ-CD	D20	DC	LIC	ORLANDO, ETC., FL	BLANK0000108580	223.1
No	W20DM-D	D20	LD	CP	SEBASTIAN, FL	BNPDTL20090825BZC	112.7
No	WVEA-TV	D20	DT	LIC	TAMPA, FL	BLANK0000099184	241.7

Non-directional AM stations within 0.8 km:  
 WBZT 1230 L ND1 U WEST PALM BEACH, FL BL19970422AB

Directional AM stations within 3.2 km:  
 WPOM 1600 L DA2 D RIVIERA BEACH, FL BL20001003AFD  
 WPOM 1600 L DA2 N RIVIERA BEACH, FL BL20001003AFD

Record parameters as studied:

Channel: D19  
 Mask: Full Service  
 Latitude: 26 45 36.50 N (NAD83)  
 Longitude: 80 8 39.10 W  
 Height AMSL: 149.3 m  
 HAAT: 0.0 m  
 Peak ERP: 15.0 kW  
 Antenna: Alive Telecom-ATC-BCE512CSD-V3-19 90.0 deg  
 Elev Pattern: ALIVE CUSTOM ELEVATION PATTERN  
 Elec Tilt: 1.25

49.3 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	4.36 kW	144.1 m	42.1 km
45.0	12.9	146.9	47.8
90.0	15.0	147.0	48.5
135.0	13.2	145.7	47.8
180.0	4.55	144.2	42.3
225.0	3.83	144.2	41.4
270.0	4.87	143.6	42.6
315.0	4.10	143.7	41.7

Database HAAT does not agree with computed HAAT  
 Database HAAT: 0 m Computed HAAT: 145 m

Distance to Canadian border: 1670.7 km

Distance to Mexican border: 1672.1 km

Conditions at FCC monitoring station: Vero Beach FL  
Bearing: 332.8 degrees Distance: 105.8 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:  
Bearing: 309.1 degrees Distance: 2744.6 km

No land mobile station failures found

Study cell size: 1.00 km  
Profile point spacing: 1.00 km

Maximum new IX to full-service and Class A: 0.50%  
Maximum new IX to LPTV: 2.00%

----- Below is IX received by proposal BLANK0000125854 -----

Proposal receives 9.89% interference from scenario 1  
No IX check failures found.

Based on the information supplied herein, and accompanying application for construction permit, it is believed that the proposed facilities meet all applicable FCC requirements for construction permit.

The foregoing was prepared on behalf of H&R Production group, LLC by Clarence M. Beverage of Communications Technologies, Inc., Medford, New Jersey, whose qualifications are a matter of record with the Federal Communications Commission. The undersigned certifies, under penalty of perjury, that the statements herein are true and correct of his own knowledge, except such statements made on information and belief, and as to these statements he believes them to be true and correct.



Clarence M. Beverage  
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Medford, New Jersey  
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