

W241DH STA REQUEST

An STA is requested for a temporary facility operating into an existing antenna and transmission line on ASR # 1034035 at 3 Watts ERP. The facility will rebroadcast non-commercial FM station WCIE(FM) in New Port Richey, FL on channel 218 (91.5 mHz). The W241DH STA facility will function as a non-fill-in translator for WCIE(FM). At 0.003 kW and 99 meters HAAT with a maximum 12 radial HAAT of 102 meters, it meets the requirements of §74.1235(b)(1).

A channel study is included demonstrating full overlap clearance except for 2nd adjacent channel station WBTP. An interference analysis is included demonstrating that the proposed 3 Watt facility at 99 meters AGL does not cause any interference to WBTP in accordance with Living Way. Furthermore, the W241DH-STA proposed 60 dBu is fully contained within the licensed W241DH 60 dBu as demonstrated in the attached exhibit.

The RF contribution of the proposed facility was calculated using an F factor of 1.0 for the existing antenna at 99 meters AGL using the formula provided below to be 0.02 μ Watts/cm² or 0.01% of the maximum permissible 200 μ Watts/cm² exposure for general population/uncontrolled exposure. This is less than the 5% which requires consideration.

$$S \text{ (RF in } \mu\text{Watts/cm}^2\text{)} = \frac{33.4 (F^2 - \text{Vert Factor}) X (H \text{ ERP} + V \text{ ERP in Watts})}{R^2 \text{ (distance to radiation center in meters} - 2 \text{ m)}}$$



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E1 CHANNEL STUDY

REFERENCE CH# 241D - 96.1 MHz, Pwr= 0.003 kW DA, HAAT= 102.0 M, COR= 105 M DISPLAY DATES
 27 32 43.10 N. Average Protected F(50-50)= 4.31 km DATA 03-12-21
 82 34 26.30 W. Standard Directional SEARCH 03-12-21

CH CITY	CALL	TYPE STATE	ANT	AZI <--	DIST FILE #	LAT LNG	PWR(kW) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT*
241D Bradenton	W241DH	LIC DCN FL		0.0 0.0	0.00 BLFT20190718AAD	27 32 43.10 82 34 26.30	0.100		---Reference---		
								115	Tampa Radio, Inc.		
239C1 Clearwater	WBTP	LIC _CN FL		352.2 172.1	36.10 BMLH20041215ACC	27 52 01.10 82 37 26.40	100.000 185	7.9 186	62.4 Ihm Licenses, LLC	23.8	-26.4*

See attached XFIELD study demonstrating lack of interference to WBTP per *Living Way*.

241C Springs FL	WRXK-FM	LIC _CN 323.4	142.9 BMLH20000928ABL	155.91 81	26 25 23.30 37 48.30 341	100.000 343	176.4	75.1	-22.9*	75.2	Bonita
									Beasley Media Group Licenses		
241D Brandon	W241DH	CP DCN FL		26.2 206.3	55.47 BPFT20190726AAD	27 59 38.10 82 19 27.30	0.250		---Reference---		
								127	Tampa Radio, Inc.		
242L1 Long Boat Key	WULB-LP	LIC _CN FL		194.6 14.6	20.15 BMLL20150601ABM	27 22 11.40 82 37 31.50	0.100 12			8.2	9.0
								13	M & M Community Development		
242L1 St. Petersburg	WBPU-LP	LIC _CN FL		341.6 161.5	24.26 BLL20170126ADP	27 45 08.30 82 39 07.10	0.100 24			11.9	12.4
								27	African People's Education		
242L1 Sun City Center	WSCQ-LP	LIC _CN FL		49.9 230.0	28.14 BLL20141027AAE	27 42 30.10 82 21 19.30	0.091 31			15.0	15.8
								44	Sun City Center Radio, Inc		

Terrain database is GLOBE 30 Sec, R= 73.215 qualifying spacings or FCC minimum Spacings in KM, M= Margin in KM
 In & Out distances between contours are shown at closest points. Reference zone= East Zone, Co to 3rd adjacent.
 All separation margins (if shown) include rounding.
 Ant Column: (D= DA Standard, Z= DA 73.215, N= Not DA 73.215, _= Omni), Polarization (C,H,V,E), Beamtilt(Y,N,X)
 "*"affixed to 'IN' or 'OUT' values = site inside restricted contour.
 « = Station meets FCC minimum distance spacing for its class.
 Reference station has protected zone issue: AM tower

E2 WBTP ANALYSIS

W241DH Bradenton, FL, Showing Protection to WBTP, Channel: 239
 Geographic Coordinates: N. 27 32 43.10 W. 82 34 26.30
 74.1204(d) Study - Using USGS 03 SEC Terrain Database
 Translator or LPFM Maximum Licensed ERP = 0.003 kW, Channel: 241
 Translator or LPFM Antenna Height AG = 102 meters
 W241DH Antenna Model = SHPX2F

Protected Station's Contour = 73.06213 dBu
 Translator's or LPFM's full Interference contour 113.06213

Review Azimuth = 0 Degrees True
 Horizontal Relative Field at Review Azimuth = 1.000
 Translator/LPFM ERP on the horizontal at Review Azimuth = 0.003 kW
 Distance between stations = 36.1 km
 Protected Station= WBTP, 100 kW, 186 M meters COR AMSL

Depression Angle From Degree(Deg)	Vertical Relative Field	Horizontal Relative Field	ERP (kw)	Dist to IX Contour Along Dep. Angle(m)	Dist to IX Contour From Tower Base(m)	Height IX Above Ground (m)
00.00	1.00	1.0	0.0030	027.0056	027.0056	102.000
05.00	0.96	1.0	0.0028	025.9254	025.8267	099.740
10.00	0.845	1.0	0.0021	022.8197	022.4731	098.037
15.00	0.669	1.0	0.0013	018.0668	017.4511	097.324
20.00	0.455	1.0	0.0006	012.2876	011.5465	097.797
25.00	0.226	1.0	0.0002	006.1033	005.5314	099.421
30.00	0.006	1.0	0.0000	000.1620	000.1403	101.919
35.00	0.187	1.0	0.0001	005.0501	004.1368	099.103
40.00	0.339	1.0	0.0003	009.1549	007.0131	096.115
45.00	0.445	1.0	0.0006	012.0175	008.4977	093.502
50.00	0.506	1.0	0.0008	013.6648	008.7836	091.532
55.00	0.525	1.0	0.0008	014.1779	008.1321	090.386
60.00	0.511	1.0	0.0008	013.7999	006.8999	090.049
65.00	0.472	1.0	0.0007	012.7467	005.3870	090.448
70.00	0.416	1.0	0.0005	011.2343	003.8424	091.443
75.00	0.35	1.0	0.0004	009.4520	002.4463	092.870
80.00	0.277	1.0	0.0002	007.4806	001.2990	094.633
85.00	0.202	1.0	0.0001	005.4551	000.4754	096.566
90.00	0.126	1.0	0.0000	003.4027	000.0000	098.597

W241DH-STA

Latitude: 27-32-43.10 N
Longitude: 082-34-26.30 W
ERP: 0.003 kW
Channel: 241
Frequency: 96.1 MHz
AMSL Height: 102.0 m
Elevation: 3.0 m
Horiz. Pattern: Omni

E3 CONTOURS**W242DH-LIC 60 DBU****W241DH-STA 60 DBU**

W241DH
W241DH-STA
Memphis

Palmetto

Ellenton

Bradenton

Samoset

Bayshore Gardens

Anna Maria

Holmes Beach

Cortez

WCIE 60 dBu

WCIE on 91.5 at New Port Richey, FL is the W241DH-STA's primary station since the constructed WTPA(AM) will not qualify since neither its 2 mV/m nor its 25 mile radius encompass the 60 dBu.

W241DH-STA is a non-fill in translator for non-commercial WCIE for which rebroadcast permission has been obtained. It meets the Section 74.1235(b)(1) MERP limitations.

Scale 1:150,000



E4 12 RADIAL HAAT

N. Lat. = 27-32-43.1 W. Lng. = 82-34-26.3
HAAT and Distance to Contour,
FCC, FM 2-10 Miles, 51 points Method - GLOBE 30 SEC Terrain

Azi.	AV EL	HAAT	ERP kW	60-F5
000	0.3	101.7	0.0030	4.30
030	4.0	98.0	0.0030	4.22
060	6.3	95.7	0.0030	4.17
090	7.8	94.2	0.0012	3.22
120	4.3	97.7	0.0001	1.59
150	4.4	97.6	0.0001	1.60
180	4.6	97.4	0.0008	2.96
210	2.8	99.2	0.0027	4.14
240	1.3	100.7	0.0022	3.96
270	0.1	101.9	0.0003	2.34
300	0.2	101.8	0.0008	3.02
330	0.2	101.8	0.0027	4.19

Ave El = 3.03 M HAAT= 98.97 M AMSL= 102 M

E6 Registration 1034035



Registration Detail

Reg Number	1034035	Status	Constructed
File Number	A1119614	Constructed	05/01/1999
EMI	No	Dismantled	
NEPA	No		

Antenna Structure

Structure Type		GTOWER - Guyed Structure Used for Communication Purposes	
Location (in NAD83 Coordinates)			
Lat/Long	27-32-42.9 N 082-34-26.8 W	Address	900 33RD STREET WEST
City, State	PALMETTO , FL		
Zip	34221	County	MANATEE
Center of AM Array	Position of Tower in Array		
Heights (meters)			
Elevation of Site Above Mean Sea Level		Overall Height Above Ground (AGL)	
3.0		185.6	
Overall Height Above Mean Sea Level		Overall Height Above Ground w/o Appurtenances	
188.6		184.7	

Painting and Lighting Specifications

FAA Chapters 3, 4, 5, 12
Paint and Light in Accordance with FAA Circular Number 70/7460-1K

FAA Notification

FAA Study	2014-ASO-1113-OE	FAA Issue Date	08/07/2014
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Owner & Contact Information

FRN	0026975334	Owner Entity Type	Limited Liability Company
Assignor FRN	0023451453	Assignor ID	L01873648

Owner

Vertical Bridge CC FM, LLC
Attention To: FCC Contact
750 Park of Commerce Dr.
Suite 200
Boca Raton , FL 33487

P: (561)406-4015
F:
E: fcc-faa@verticalbridge.com

Contact

Hickey , Richard
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Boca Raton , FL 33487

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Last Action Status

Status	Constructed	Received	11/08/2018
Purpose	Change Owner	Entered	11/08/2018