

PERDOMO TECH

Your FM Allocation Source

400 Reservoir Ave. Suite 3L, Providence, RI. 02907. 401-712-3924

This Application is prepared on behalf of Diaz Holdings LLC to produce a modification to translator W229AN. This allocation remains in the same channel 229 with only changes in Location, Antennas, Patterns, power, and Height. Following this narrative, there are contour-to-contour maps and an explanations demonstrating compliance with FCC Rules regarding prohibited overlaps.

PROPOSED

ASRN **1022392**

41-49-38.9 N 071-22-07.2 W NAD 83)

Antenna Type & Model:

CH 229

ERP Horizontal Plane (Kw):

Site Elevation:

RC-AGL:

Radiation Center AMSL:

Horizontally

Polarized

DA PSIFML-2

93.7 mHz

0.20 Kw

11.3 meters

137 meters

148 meters

Vertically

Polarized

DA PSIFML-2

93.7mHz

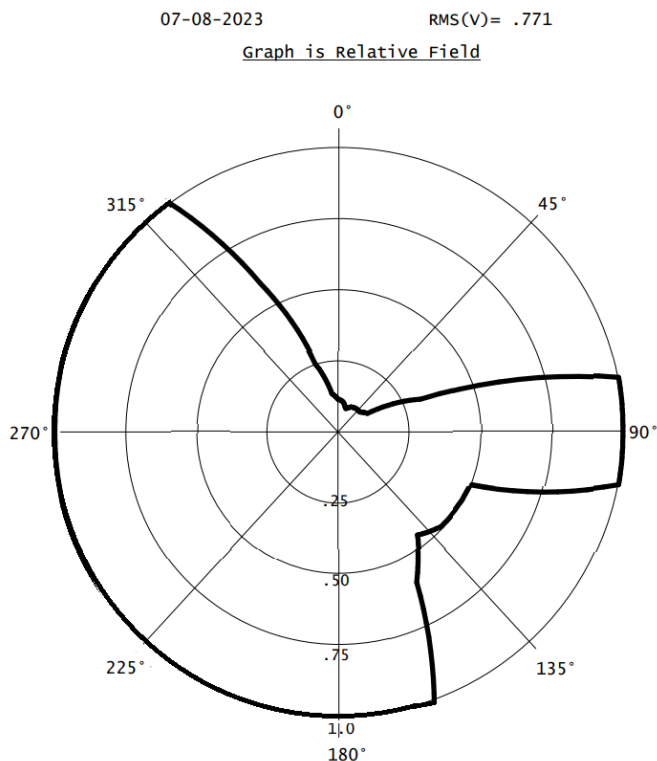
0.20 Kw.

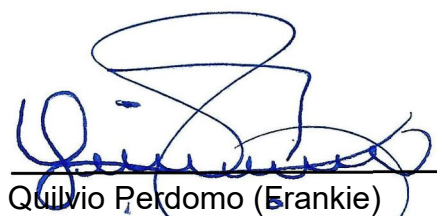
11.3 meters

137 meters

148 meters

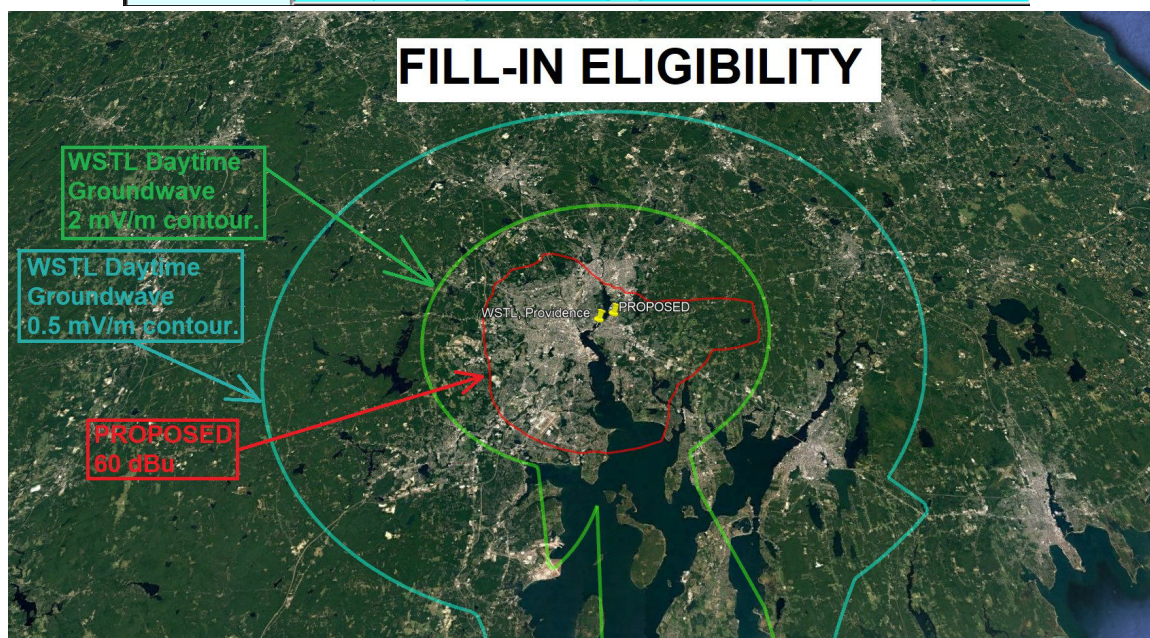
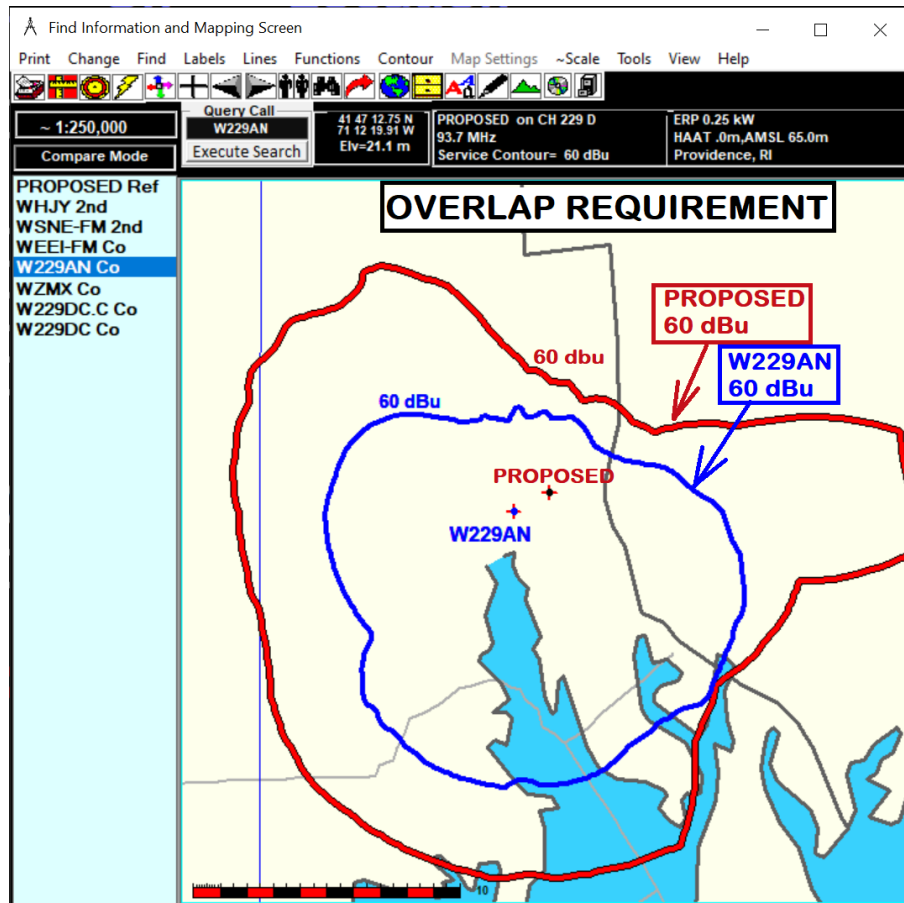
PROPOSED			
Azi	Field	dbk	kw
000	0.106	-26.484	0.002
010	0.100	-26.990	0.002
020	0.080	-28.928	0.001
030	0.093	-27.620	0.002
040	0.099	-27.077	0.002
050	0.100	-26.990	0.002
060	0.120	-25.406	0.003
070	0.310	-17.162	0.019
080	1.000	-06.990	0.200
090	1.000	-06.990	0.200
100	1.000	-06.990	0.200
110	0.499	-13.028	0.050
120	0.487	-13.239	0.047
130	0.475	-13.456	0.045
140	0.435	-14.220	0.038
150	0.561	-12.010	0.063
160	1.000	-06.990	0.200
170	1.000	-06.990	0.200
180	1.000	-06.990	0.200
190	1.000	-06.990	0.200
200	1.000	-06.990	0.200
210	1.000	-06.990	0.200
220	1.000	-06.990	0.200
230	1.000	-06.990	0.200
240	1.000	-06.990	0.200
250	1.000	-06.990	0.200
260	1.000	-06.990	0.200
270	1.000	-06.990	0.200
280	1.000	-06.990	0.200
290	1.000	-06.990	0.200
300	1.000	-06.990	0.200
310	1.000	-06.990	0.200
320	1.000	-06.990	0.200
330	0.555	-12.104	0.062
340	0.235	-19.568	0.011
350	0.126	-24.982	0.003




Quilvio Perdomo (Frankie)
Consultant

OVERLAP REQUIREMENT & FILL-IN ELIGIBILITY

First Map shows Overlap requirement between License 60 dBu & Proposed 60 dBu
Google Map shows Fill-In Eligibility Proposed 60dBu is inside WSTL 2 mV/m Contour



HOW TO READ THE FM COMPUTER PRINT-OUT

LPFM / Translator Reference Station

The computer printout should be self-explanatory for the most part. The parameters of the station being checked, (reference station) are printed in the heading. The 60 dBu protected contour is predicted from the Commission's F(50-50) table. Contour distances are in kilometers and are predicted using the Commission's TVFMINT FORTAN subroutine. When interference contour distances are less than 16 kilometers the (50-50) tables are used. If signal contour distances are less than 1.6 km the free-space equation is used.

All distances are derived by the method detailed in Sec. 73.208 of the Rules and Regulations as amended in Docket 80-90. The column labelled “*OUT*” shows the greatest distance in kilometers of the overlap (or smallest distance of clearance) between the reference station's interference contour and the database station's protected contour. Negative distance figures in this column indicate outgoing contour overlap. Since translators are able to receive interference there is not “In” or incoming column in this report.

Listed antenna heights and power are the specific antenna heights and power from the FCC database.

Under the “AZI” column, the first row of numbers indicate the True North azimuths from the reference station toward the database stations, while the numbers in the second row indicate the reverse bearings from the database stations to the reference station. Bearings are calculated using spherical trigonometry.

The column labelled “INT” and “PRO” contain the distance in kilometers of the appropriate interference contour and the protected contour of a data base station.

For I.F. relationships the minimum spacing the “OUT” columns change its significance. The letter “R” stands for the minimum **required** distance in kilometers, while the letter “M” in the next column displays the **available clear space** separation in kilometers. Minimum separation distance when displayed are taken from Sec 73.207 of the rules as amended. Canadian and Mexican separation distances, U/D ratios and protected contour values are from the “US/Mexican Working Agreement and the US/Canada Working Agreement”.

The first three letters of the “TYPE” column identify the current FCC status of the stations. The fourth letters will be a “D” if the facility is directional. “Z” indicates a 73.215 directional. An “N” indicates it is a 73.215 station that operates with an omni-directional antenna. The Fifth letter will be an E, H or V depending on the type of antenna polarization. The sixth letter will be a “Y” if the antenna uses a bean tilt or an “X” if the commission is not sure, otherwise it will be an “N” or left blank.

PROPOSED ALLOCATION
Diaz Holdings, LLC
REFERENCE CH# 229D - 93.7 MHz, Pwr= 0.2 kW DA, HAAT= 0.0 M, COR= 148.3 M
41 49 38.90 N. Average Protected F(50-50)= 6.71 km
71 22 07.20 W. Standard Directional
DISPLAY DATES
SEARCH 07-08-23

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* (in km)
231B Providence	WHJY	LIC _CN RI		0.0 180.0	0.04 BLH20000915ALB	41 49 40.40 71 22 07.20	50.000 139	6.3 170	67.2 Ihm Licenses, LLC	-10.5*	-67.3*
227B Taunton	WSNE-FM	LIC DCN MA		57.2 237.3	7.85 BLH20081125AJP	41 51 56.40 71 17 20.20	31.000 180	6.0 209	65.7 Ihm Licenses, LLC	-4.2	-58.1*
229B Lawrence	WEEI-FM	LIC _CN MA		21.8 202.1	84.37 BLH20090904ACK	42 31 53.30 70 59 10.20	34.000 178	133.5 202	65.1 Audacy License, LLC	-55.1*	0.1
229B Hartford	WZMX	LIC _CN CT		257.0 76.0	126.01 BMLH20080306AAR	41 33 44.40 72 50 40.40	17.000 259	131.5 359	68.4 Audacy License, LLC	-17.2*	1.4
229D Fall River	W229DC	CP DCN MA		122.6 302.7	23.79 0000177743	41 42 43.40 71 07 37.20	0.250	21.7 116	4.7 Rvde, LLC	-6.5	-14.6*
229D Fall River	W229DC	LIC DCN MA		129.4 309.6	24.06 BLFT20180925ACL	41 41 23.30 71 08 41.10	0.250	16.6 89	4.2 Rvde, LLC	-2.9	-13.4*
226B Springfield	WHYN-FM	LIC _CN MA		293.9 113.1	115.25 BMLH19990121KA	42 14 28.30 72 38 54.30	8.900 305	4.9 403	64.3 Ihm Licenses, LLC	98.2	49.2

Terrain database is FCC NGDC 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.
Reference station has protected zone issue: AM tower

The Above allocation complies with FCC Rules regarding prohibited overlap except for two (2) second adjacent channels, 231B WHJY and 227B WSNE-FM, where a D/U method is employed to demonstrate no interference for such channels. About the Co-W229DC License and Construction Permit, which were granted in 2018 and 2022, receiving interference from our license W229AN .

Above:

This Proposed allocation reduces interference received by W229DC.

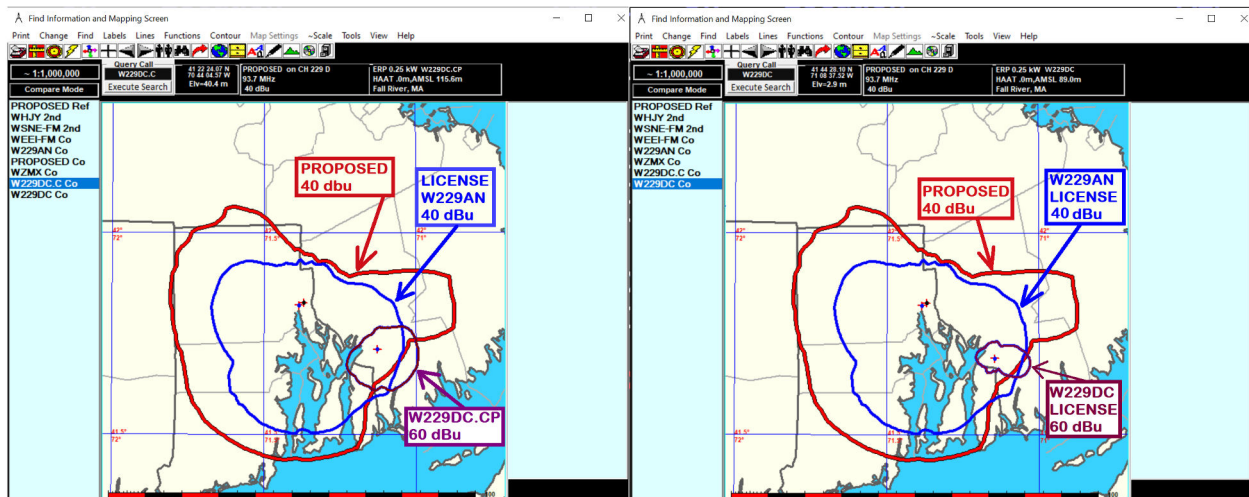
W229DC (Construction Permit reduced overlap Out to **-14.6* Km**) & for (License **-13.4* Km**)

Below:

Actual interference received by W229DC (Construction Permit overlap Out to **-14.7* Km**) & (License **-13.5* Km**).
Contrasting the actual license information below with the proposal above, there is a slight reduction in interference.

CH CITY	CALL	TYPE STATE	ANT --	AZI --	DIST FILE #	LAT LNG	PWR(kw) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*OUT* (Overlap in km)
229D Fall River	W229DC	CP DCN MA		119.4 299.6	24.56 0000177743	41 42 43.40 71 07 37.20	0.250	15.3 116	4.7 Rvde, LLC	-14.7*
229D Fall River	W229DC	LIC DCN MA		126.1 306.3	24.67 BLFT20180925ACL	41 41 23.30 71 08 41.10	0.250	15.3 89	4.3 Rvde, LLC	-13.5*

The Maps below demonstrate a slight reduction of interference caused by our proposal to W229DC.CP as well as W229DC License in contrasting with our actual license.

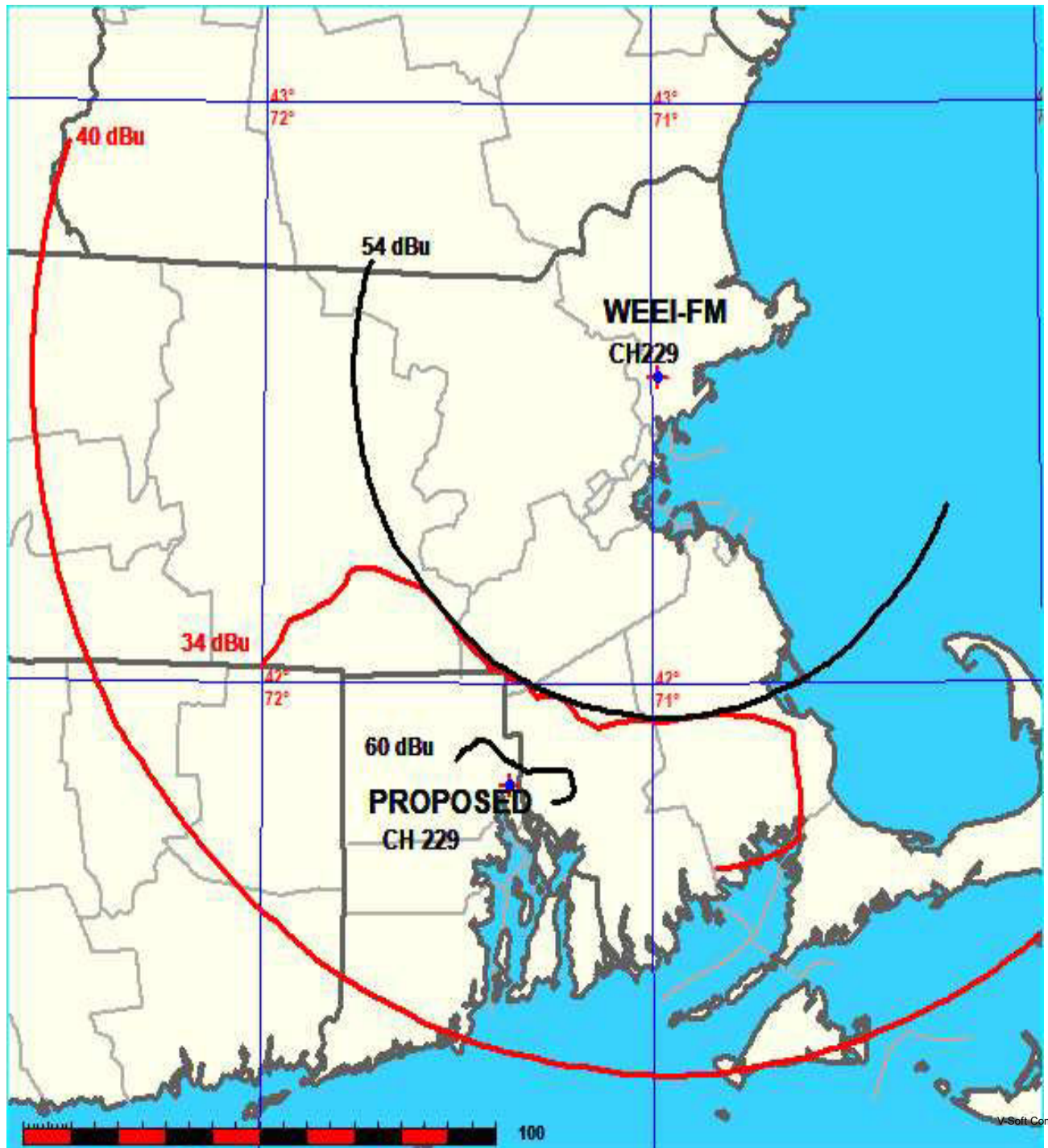


CO-WEEI-FM
PROPOSED

FMCommander Single Allocation Study - 07-09-2023 - FCC NGDC 30 Sec
PROPOSED's Overlaps (In= -55.35 km, Out= 0.05 km)

PROPOSED CH 229 D DA
Lat= 41 49 38.90, Lng= 71 22 07.20
0.2 kW 0 m HAAT, 148.3 m COR
Prot.= 60 dBu, Intef.= 34 dBu

WEEI-FM CH 229 B BLH20090904ACK
Lat= 42 31 53.30, Lng= 70 59 10.20
34.0 kW 178 m HAAT, 202 m COR
Prot.= 54 dBu, Intef.= 40 dBu



CO-WZMX
PROPOSED

FMCommander Single Allocation Study - 07-09-2023 - FCC NGDC 30 Sec
PROPOSED's Overlaps (In= -17.24 km, Out= 1.44 km)

PROPOSED CH 229 D DA
Lat= 41 49 38.90, Lng= 71 22 07.20
0.2 kW 0 m HAAT, 148.3 m COR
Prot.= 60 dBu, Intef.= 34 dBu

WZMX CH 229 B BMLH20080306AAR
Lat= 41 33 44.40, Lng= 72 50 40.40
17.0 kW 259 m HAAT, 359 m COR
Prot.= 54 dBu, Intef.= 40 dBu

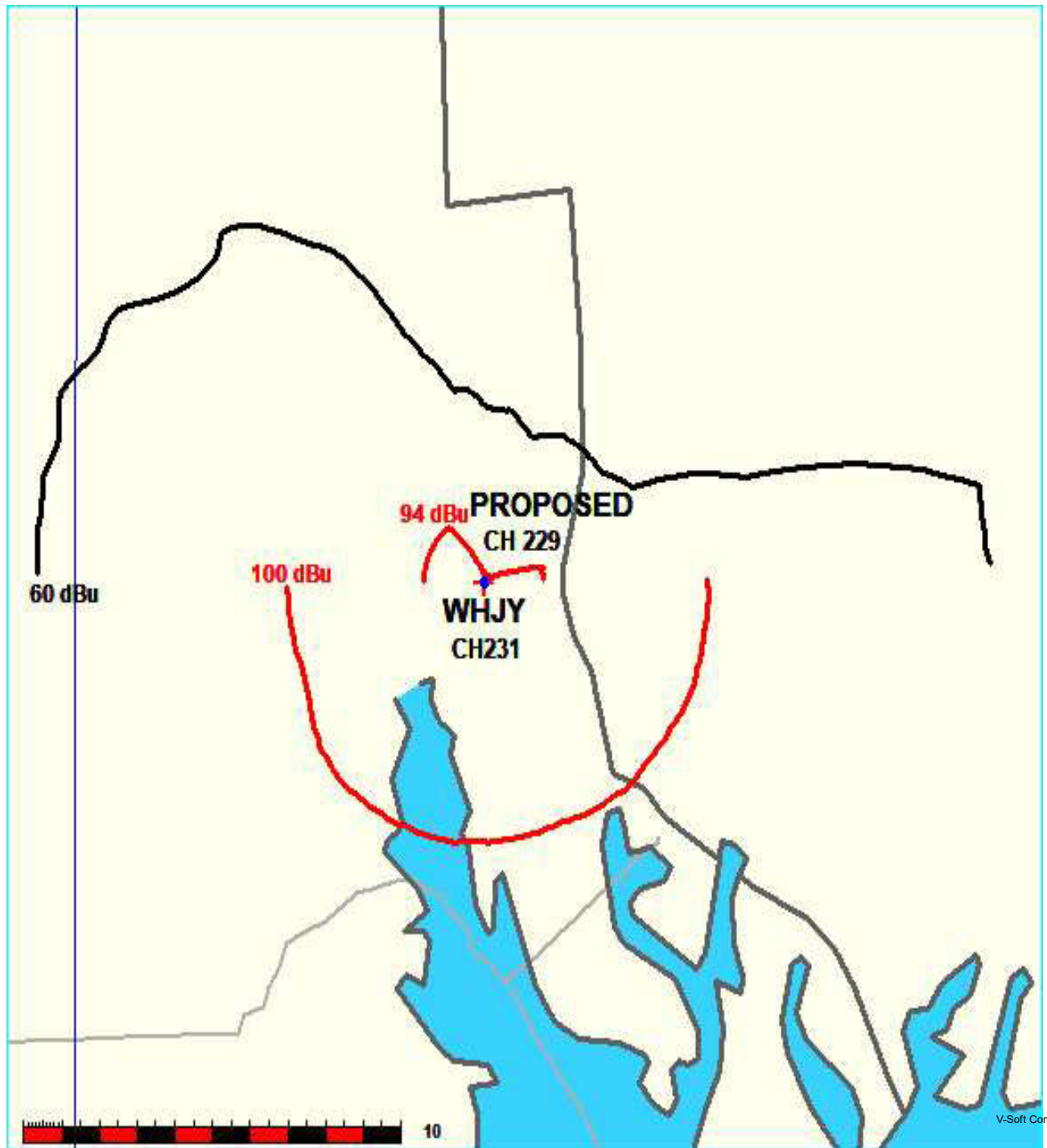


2ND. WHJY
W229AN

FMCommander Single Allocation Study - 07-12-2023 - FCC NGDC 30 Sec
PROPOSED's Overlaps (In= -10.48 km, Out= -67.33 km)

PROPOSED CH 229 D DA
Lat= 41 49 38.90, Lng= 71 22 07.20
0.2 kW 0 m HAAT, 148.3 m COR
Prot.= 60 dBu, Intef.= 94 dBu

WHJY CH 231 B BLH20000915ALB
Lat= 41 49 40.40, Lng= 71 22 07.20
50.0 kW 139 m HAAT, 170 m COR
Prot.= 54 dBu, Intef.= 100 dBu

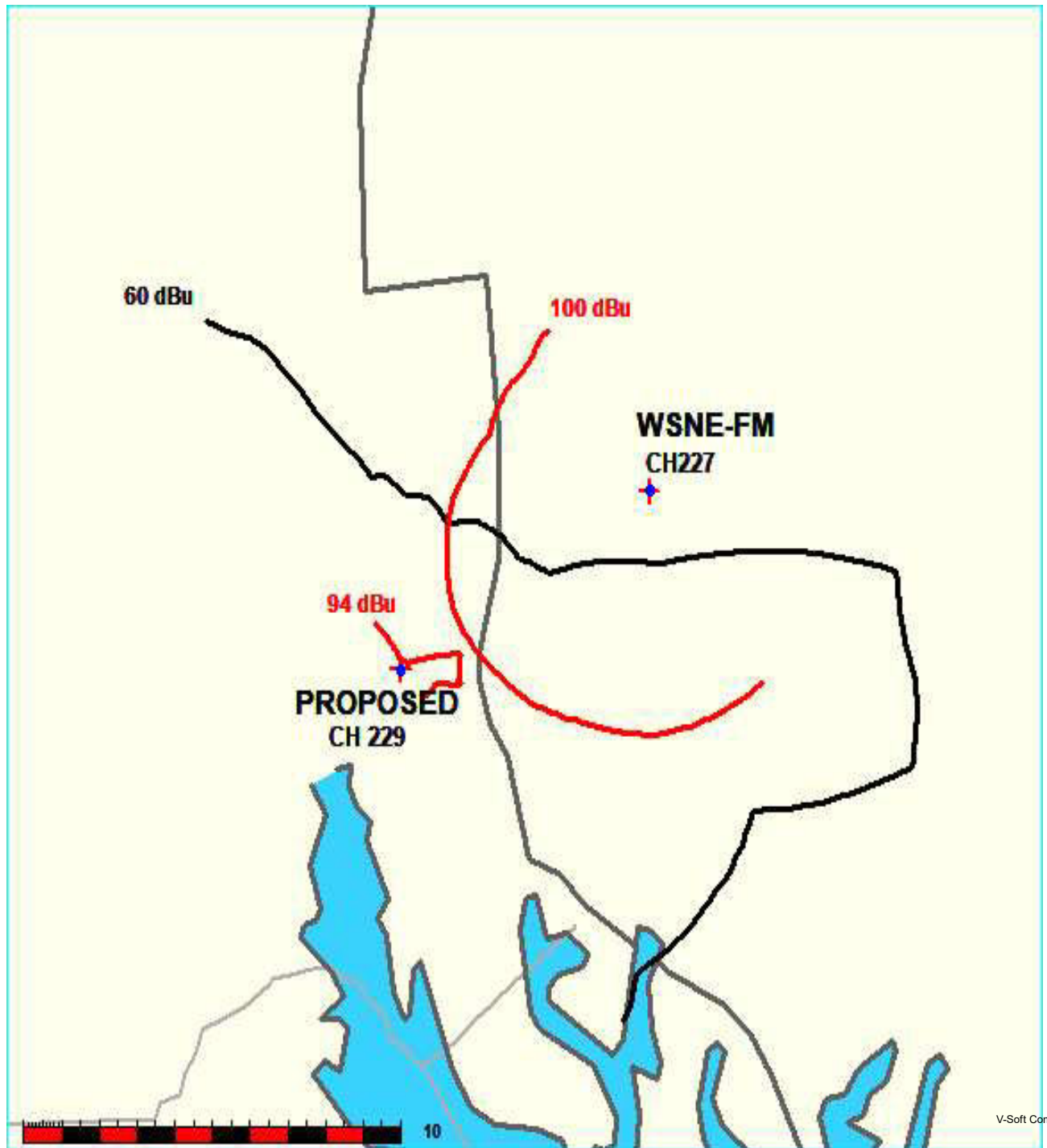


2ND. WSNE-FM
W229AN

FMCommander Single Allocation Study - 07-12-2023 - FCC NGDC 30 Sec
PROPOSED's Overlaps (In= -4.13 km, Out= -58.12 km)

PROPOSED CH 229 D DA
Lat= 41 49 38.90, Lng= 71 22 07.20
0.2 kW 0 m HAAT, 148.3 m COR
Prot.= 60 dBu, Intef.= 94 dBu

WSNE-FM CH 227 B DA BLH20081125AJP
Lat= 41 51 56.40, Lng= 71 17 20.20
31.0 kW 180 m HAAT, 209 m COR
Prot.= 54 dBu, Intef.= 100 dBu



PROPOSED Providence, RI, Showing Protection to WHJY, Channel: 231
 Geographic Coordinates: N. 41 49 38.90 W. 712207.20
 74.1204(d) Study - Using FCC 30 SEC Terrain Database
 Translator or LPFM Maximum Licensed ERP = 0.2 kW, Channel: 229
 Translator or LPFM Antenna Height AG = 137 meters
 PROPOSED Antenna Azimuth Model = Vertical Model Name = PSIFML-2

Protected Station's Contour = 154.6114 dBu
 Translator's or LPFM's full Interference contour 194.6114

PROTECTION TO:
 Second Ch. 231
 WHJY

Review Azimuth = 0 Degrees True
 Horizontal Relative Field at Review Azimuth = 0.106
 Translator/LPFM ERP on the horizontal at Review Azimuth = 0.002 kW
 Distance between stations = 0.0 km
 Protected Station= WHJY, 50 kW, 170 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	1.0	0.11	0.0212	000.0095	000.0095	137.000
05.00	0.665	0.11	0.0094	000.0063	000.0063	136.999
10.00	0.051	0.11	0.0001	000.0005	000.0005	137.000
15.00	0.216	0.11	0.0010	000.0021	000.0020	136.999
20.00	0.065	0.11	0.0001	000.0006	000.0006	137.000
25.00	0.114	0.11	0.0003	000.0011	000.0010	137.000
30.00	0.083	0.11	0.0001	000.0008	000.0007	137.000
35.00	0.042	0.11	0.0000	000.0004	000.0003	137.000
40.00	0.085	0.11	0.0002	000.0008	000.0006	136.999
45.00	0.029	0.11	0.0000	000.0003	000.0002	137.000
50.00	0.039	0.11	0.0000	000.0004	000.0002	137.000
55.00	0.059	0.11	0.0001	000.0006	000.0003	137.000
60.00	0.038	0.11	0.0000	000.0004	000.0002	137.000
65.00	0.005	0.11	0.0000	000.0000	000.0000	137.000
70.00	0.017	0.11	0.0000	000.0002	000.0001	137.000
75.00	0.025	0.11	0.0000	000.0002	000.0001	137.000
80.00	0.024	0.11	0.0000	000.0002	000.0000	137.000
85.00	0.018	0.11	0.0000	000.0002	000.0000	137.000
90.00	0.011	0.11	0.0000	000.0001	000.0000	137.000

X-Field™ By V-Soft Communications®LLC

PROPOSED Providence, RI, Showing Protection to WSNE-FM, Channel: 227
 Geographic Coordinates: N. 41 49 38.90 W. 712207.20
 74.1204(d) Study - Using FCC 30 SEC Terrain Database
 Translator or LPFM Maximum Licensed ERP = 0.2 kW, Channel: 229
 Translator or LPFM Antenna Height AG = 137 meters
 PROPOSED Antenna Azimuth Model = Vertical Model Name = PSIFML-2

Protected Station's Contour = 94.30121 dBu
 Translator's or LPFM's full Interference contour 134.30121

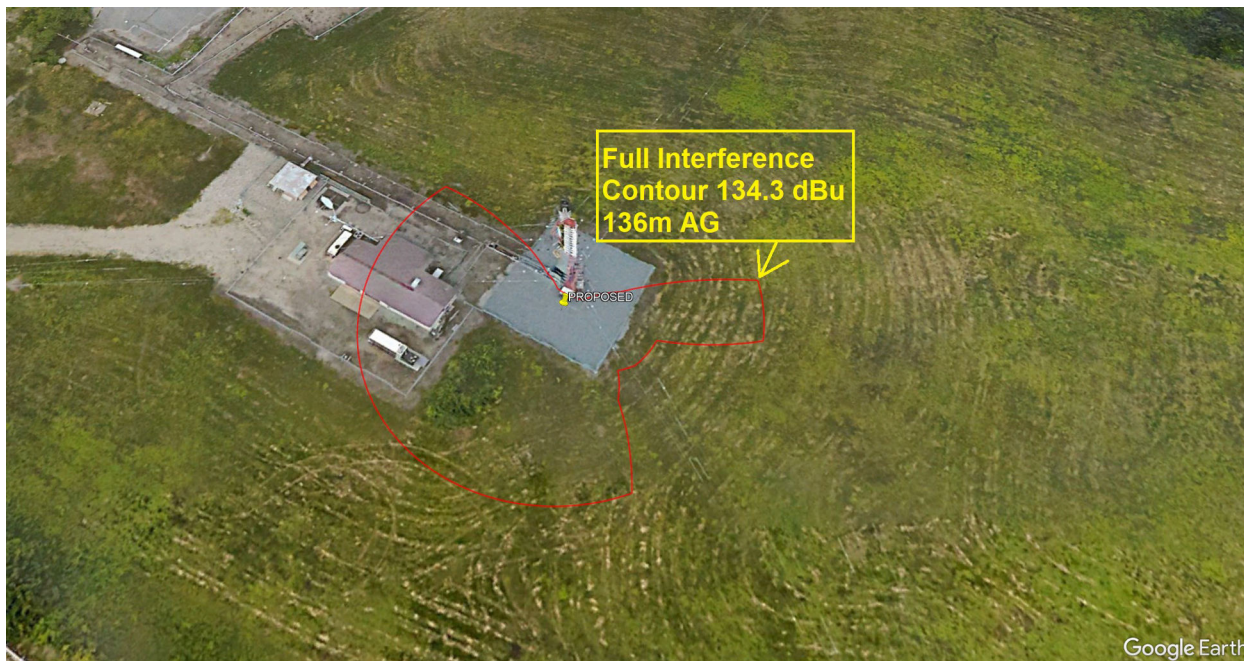
PROTECTION TO:
 Second Ch. 227
 WSNE-FM

Review Azimuth = 0 Degrees True
 Horizontal Relative Field at Review Azimuth = 0.106
 Translator/LPFM ERP on the horizontal at Review Azimuth = 0.002 kW
 Distance between stations = 7.9 km
 Protected Station= WSNE-FM, 31 kW, 180 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	1.0	0.11	0.0212	006.2245	006.2245	137.000
05.00	0.665	0.11	0.0094	004.1393	004.1236	136.639
10.00	0.051	0.11	0.0001	000.3175	000.3126	136.945
15.00	0.216	0.11	0.0010	001.3445	001.2987	136.652
20.00	0.065	0.11	0.0001	000.4046	000.3802	136.862
25.00	0.114	0.11	0.0003	000.7096	000.6431	136.700
30.00	0.083	0.11	0.0001	000.5166	000.4474	136.742
35.00	0.042	0.11	0.0000	000.2614	000.2142	136.850
40.00	0.085	0.11	0.0002	000.5291	000.4053	136.660
45.00	0.029	0.11	0.0000	000.1805	000.1276	136.872
50.00	0.039	0.11	0.0000	000.2428	000.1560	136.814
55.00	0.059	0.11	0.0001	000.3672	000.2106	136.699
60.00	0.038	0.11	0.0000	000.2365	000.1183	136.795
65.00	0.005	0.11	0.0000	000.0311	000.0132	136.972
70.00	0.017	0.11	0.0000	000.1058	000.0362	136.901
75.00	0.025	0.11	0.0000	000.1556	000.0403	136.850
80.00	0.024	0.11	0.0000	000.1494	000.0259	136.853
85.00	0.018	0.11	0.0000	000.1120	000.0098	136.888
90.00	0.011	0.11	0.0000	000.0685	000.0000	136.932

X-Field™ By V-Soft Communications®LLC

Both Tabulations bring protection to the second channel. 227 WSNE-FM and 231 WHJY are showing 194.6 dBu and 134.3 dBu of full interference. The contour's lowest point of interference is at 147m AMSL, 136m Above ground, and less than a meter from the tower, there is no structure tall enough to enter the interference signal, which is within the tower site, as shown in a Google Earth Map below:



The Google Earth Map above shows the biggest interference signal (134.3 dBu) at 136m Above the Ground it is within the tower site. There is no occupied structure within the interference signal.

A waiver for the second adjacent channel is respectfully requested.

Protected zones report for PROPOSED on channel 229D 07-09-2023
Lat. 41 49 38.9 Lng. 71 22 07.2, ERP= 0.2 kw, HAAT= 0 m

Facility is okay with respect to Canada. Distance = 354.9 km.
Closest AM Facility is WPMZ, EAST PROVIDENCE, RI, L, DAD at 309.4° at a distance of 0.1 km
*** Facility is within .7876716 km of WPRV, PROVIDENCE, RI, L, DAN at 19.1°
Facility is okay with respect to FCC monitoring stations.
Closest FCC Monitoring Station is 345.2 km= Belfast, ME
Facility is okay toward West Virginia Quiet Zone. Distance to center = 792.3 km
Facility is okay toward Table Mountain. Distance to Center = 2856.8 km, Azimuth = 277.6 Degrees True

RF Worksheet #1 – FM (including translators & boosters)

PLEASE COPY BEFORE USING. THE DETERMINATION OF COMPLIANCE MAY INVOLVE REPEATED CALCULATIONS. IF LOCATED ON A MULTIPLE FM USER TOWER, PLEASE COMPLETE RF WORKSHEET 1A BEFORE PROCEEDING.

EFFECTIVE RADIATION CENTER HEIGHT

Enter proposed "height of radiation center above ground" OR as listed in Line 1 137 m (1)
of Worksheet 1A.

Is antenna supporting structure located on the roof of a building? (check one)

☐ Yes ☒ No (2)

If Line 2 is "Yes" enter the building height measured at the base of the antenna supporting structure in Line 3

If Line 2 is "No" enter "0" in Line 3..... 0 m (3)

Subtract Line (3) from Line (1)..... 137 m (4)

Subtract the value 2.0 from Line (4)..... 135 m (5)

TOTAL EFFECTIVE RADIATED POWER

(If "beam tilt" is utilized, list maximum values)

List Effective Radiated Power in the Horizontal Plane..... 0.2 kW (6)

List Effective Radiated Power in the Vertical Plane..... 0.2 kW (7)

Add Lines (6) and (7) OR list value from Line 2 in Worksheet 1A..... 0.4 kW (8)

PERCENTAGE OF FCC RF LIMIT(S) FOR MAXIMUM PERMISSIBLE EXPOSURE

Multiply Line (8) by 33.41 13.364 (9)

Multiply the value listed in Line (5) by itself..... 18.225 (10)

Divide Line (9) by Line (10) 0.00073 (11)

Multiply Line (11) by (100) 0.073% (12)

= LESS THAN 5%

DETERMINATION OF COMPLIANCE WITH CONTROLLED/OCCUPATIONAL LIMIT

Does Line (12) exceed 100%..... ☐ Yes ☒ No (13)

IF YOU ANSWERED "YES" IN LINE (13), THE WORKSHEETS MAY NOT BE USED IN THIS CASE.*

IF YOU ANSWERED "NO" IN LINE (13), THEN THE SITE SHOULD COMPLY WITH THE FCC'S CONTROLLED/OCCUPATIONAL RF EXPOSURE LIMITS FOR GROUND LEVEL EXPOSURE

***In this case, you may need to prepare an Environmental Assessment. See Instructions for Section III-C FCC Form 301.**

DETERMINATION OF COMPLIANCE WITH THE UNCONTROLLED/GENERAL POPULATION LIMIT

Does Line (12) exceed 20%..... ☐ Yes ☒ No (14)



reliable, durable, customizable, affordable

[broadcast antenna systems]

MODEL PSIFML

LOW POWER SLANT V FM ANTENNA

Low Cost | Low Weight & Wind Area | Factory Tuned | No Pressurization Required

General Specifications

Element Input: "A" - 'N' Female | "B" - 7/8" EIA | "C" - 7-16 DIN

Power Divider Input: "A" - 7/8" EIA | "B" - 1-5/8" EIA | "C" - 1-5/8" EIA

Polarization: Circular

Physical Characteristics: Copper and Brass

Power Rating: Up to 4.5 kW

Multi-Element Arrays: Up to 6 bays

Frequency Range: 88-108 MHz

Custom Bay Spacing: Any Between 1/2 and Fullwave

VSWR: < 1.15:1 ±200 kHz

Impedance: 50 ohms

Wind Survival Rating: 124 mph (200 km/h)

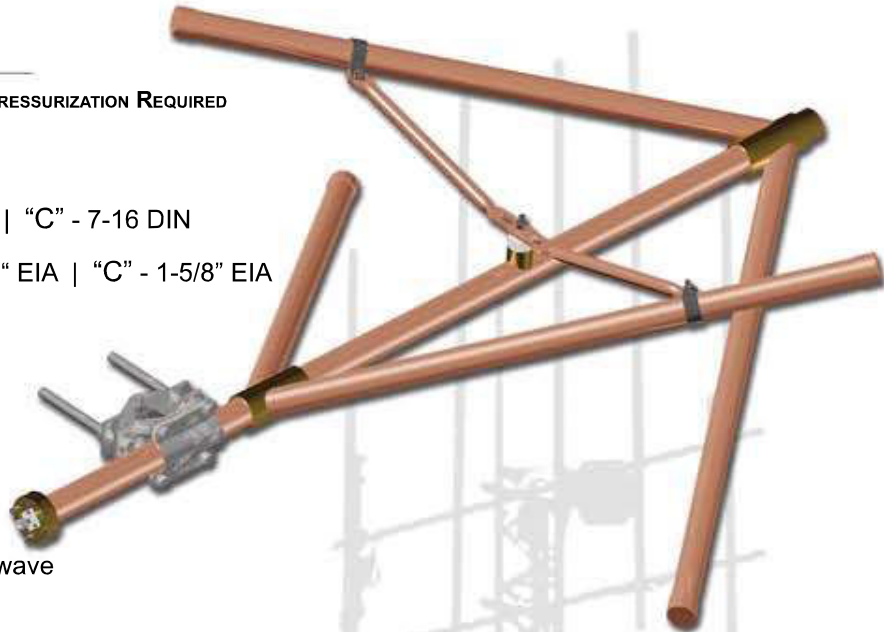
Options: Directional Pattern Certification | Electrical Deicers | Breakdown Elements

PSIFML antenna model is an omnidirectional, circularly polarized antenna, intended for the low power broadcaster. Rugged copper and brass construction and hot dip galvanized steel brackets make it suitable for any environment. Three input versions are available: "A" - 'N' Female, "B" - 7/8" EIA and "C" - 7-16 DIN.

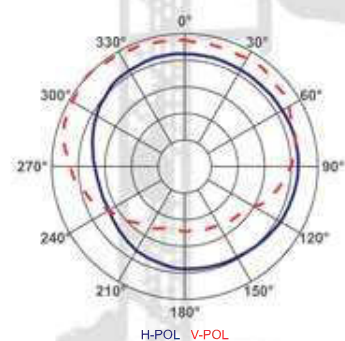
The antenna is available in a single bay or in arrays of up to 6 bays. For multi-element arrays, each version includes a power divider and cable to accommodate the increased power. Version "A" includes 7/8" EIA power divider and LMR400 coaxial cable, "B" and "C" versions include 1-5/8" EIA power divider and 1/2" corrugated foam cable. Bay spacing can be adjusted to any value between 1/2 and full wave for reduced downward radiation.

Standard with the PSIFML are integral mounting brackets that will accommodate a mast from 1-1/2" to 4" in diameter. Each antenna is fully assembled and the return loss is optimized prior to shipping.

Optional features available are Directional Pattern Certification, Electrical Deicers for areas where icing conditions are frequent or severe and Breakdown Elements for easier export shipment.



Typical Azimuth Pattern
Mast Mounted



FM BROADCAST ANTENNAS

[ASR Registration Search](#)**Registration 1022392**[✦ Map Registration](#)**Registration Detail**

Reg Number	1022392	Status	Constructed
File Number	A1120519	Constructed	01/01/1965
EMI	No	Dismantled	
NEPA	No		

Antenna Structure

Structure Type GTOWER - Guyed Structure Used for Communication Purposes

Location (in NAD83 Coordinates)

Lat/Long	41-49-38.9 N 071-22-07.2 W	Address	115 EASTERN AVE / US-RI-5001
City, State	EAST PROVIDENCE , RI		
Zip	02914	County	PROVIDENCE
Center of AM Array		Position of Tower in Array	

Heights (meters)

Elevation of Site Above Mean Sea Level	Overall Height Above Ground (AGL)
11.3	167.6
Overall Height Above Mean Sea Level	Overall Height Above Ground w/o Appurtenances
178.9	166.6

Painting and Lighting Specifications

FCC Paragraphs 1, 3, 4, 13, 21

FAA Notification

FAA Study	2018-ANE-5609-OE	FAA Issue Date	11/13/2018
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Owner & Contact Information

FRN	0026975334	Owner Entity Type	Limited Liability Company
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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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Last Action Status

Status	Constructed	Received	11/27/2018
Purpose	Notification	Entered	11/27/2018
Mode	Interactive		