

Searching at Proposed Mountaintop Site W267DD - Sabana, PR

REFERENCE		CH# 267D - 101.3 MHz, Pwr= 0.25 kW DA, HAAT= 61.0 M, COR= 125.6 M										DISPLAY DATES	
18 26 31.9 N.		Average Protected F(50-50)= 10.3 km										DATA 10-03-19	
66 23 33.0 W.		Standard Directional										SEARCH 10-08-19	
CH CITY	CALL	TYPE	ANT STATE	AZI. <--	DIST FILE #	LAT. LNG.	Pwr(kW) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT*		
264B Bayamon	WXYX	LIC	CX PR	127.5 307.6	28.24 BLH20150721AAJ	18 17 14.4 66 10 48.3	50.000 341	10.1 604	91.9 Raad Broadcasting Corporat	10.5	-64.6*		
270B Ponce	WZAR	LIC	CN PR	208.1 28.0	36.17 BMLH19820630AP	18 09 15.0 66 33 15.0	14.000 789	6.9 1274	88.3 Uno Radio Of Ponce, Inc.	23.6	-53.3*		
267D Sabana	W267DDI	CP	C PR	106.6 286.6	5.90 BNPFT20181010AAH	18 25 37.2 66 20 20.0	0.070	73	---Reference--- Aurlo A. Matos Barreto				
268D San Juan	W268BK	LIC	DC PR	121.1 301.1	34.84 BLFT20140509AFA	18 16 49.0 66 06 35.0	0.250	34.1 531	15.8 Caguas Educational Tv, Inc	-5.9	0.4		
266D San Juan	W266CF	LIC	DV PR	121.1 301.1	34.84 BLFT20150427ABN	18 16 49.0 66 06 35.0	0.250	29.8 522	16.0 Aurlo A. Matos Barreto	-2.6	2.8		
268B Isabel a	WELX	LIC	CN PR	270.2 90.0	79.72 BLH19920107KA	18 26 36.0 67 08 50.0	50.000 129	63.6 226	43.5 La Equis Broadcasting Corp	4.7	-1.9		
270D San Juan	WZAR-FM3	CP	DV PR	124.7 304.8	28.94 BNPFTB20180117ACC	18 17 38.0 66 10 01.0	0.500	1.2 550	26.6 Uno Radi o Of Ponce, Inc.	20.0	1.5		
266B Ponce	WRI O	LIC	CN PR	211.0 30.9	53.55 BLH19860609KA	18 01 40.0 66 39 14.0	50.000 -14	45.3 176	36.1 Arso Radi o Corporation	2.3	6.5		
270D Arecibo	WZAR-FM1	CP	C PR	278.0 97.9	31.49 BNPFTB20180117ABZ	18 28 52.2 66 41 16.4	2.000	1.7 69	17.5 Uno Radi o Of Ponce, Inc.	16.2	12.7		

Terrain database is USGS 03 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. Call signs with exclamation marks need not be protected.
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: Arecibo

Clearance to WXYX and WZAR will be achieved through 74.1204(d).

The geographic coordinates on this page have been transformed to NAD 27 since the database that is currently available is in NAD 27.

Interference to WELX is over the ocean. See the exhibit provided.

Bromo Communications, Inc.

Clearance to WXYX and WZAR

This instant translator application clears all allocation constraints of Section 74.1204. On first glance, it appears that interference is created to WXYX, Bayamon, PR and WZAR, Ponce, PR. However, Section 74.1204(d) instructs us:

“In addition, an application otherwise precluded by this section will be accepted if it can be demonstrated that no actual interference will occur due to intervening terrain, lack of population or such other factors as may be applicable.”

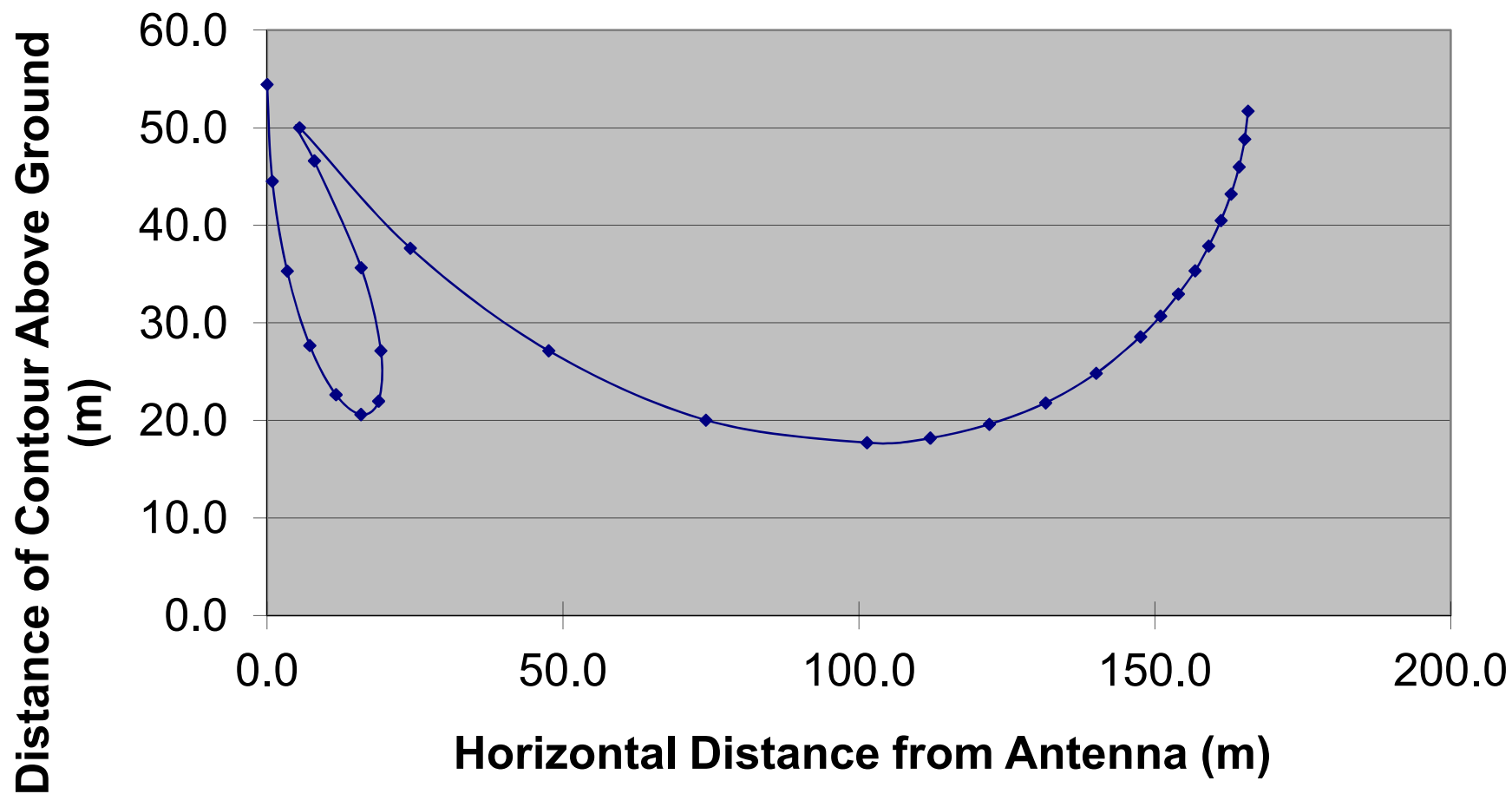
WZAR places 76.5 dBu over the proposed translator site. Adding the 40 dBu U/D ratio to the 76.5 dBu signal produces an interfering contour of 116.5 dBu. The proposed antenna is a PSIFMT-2A-6DB (0.75wavelength spaced) directional antenna. The manufacturer supplied the vertical pattern of this antenna and the location of the 116.5 dBu interfering contour was plotted. The major interfering lobe stays in the air and never touches the ground other than in the immediate vicinity of the tower on this remote mountaintop. All building on the mountaintop is non-residential. The road to this location is a dead end. The most distant location that this interference extends from the antenna is 165.5 meters. Given a radius of 165.5 meters from the tower, the highest location on this circle is 233 feet (71 meters). When this 71 meters is subtracted from the COR AMSL of 125.6 meters, a COR over the population of 54.6 meters is produced. Consulting the attached graph of the Interfering Contour, no resident will receive interference.

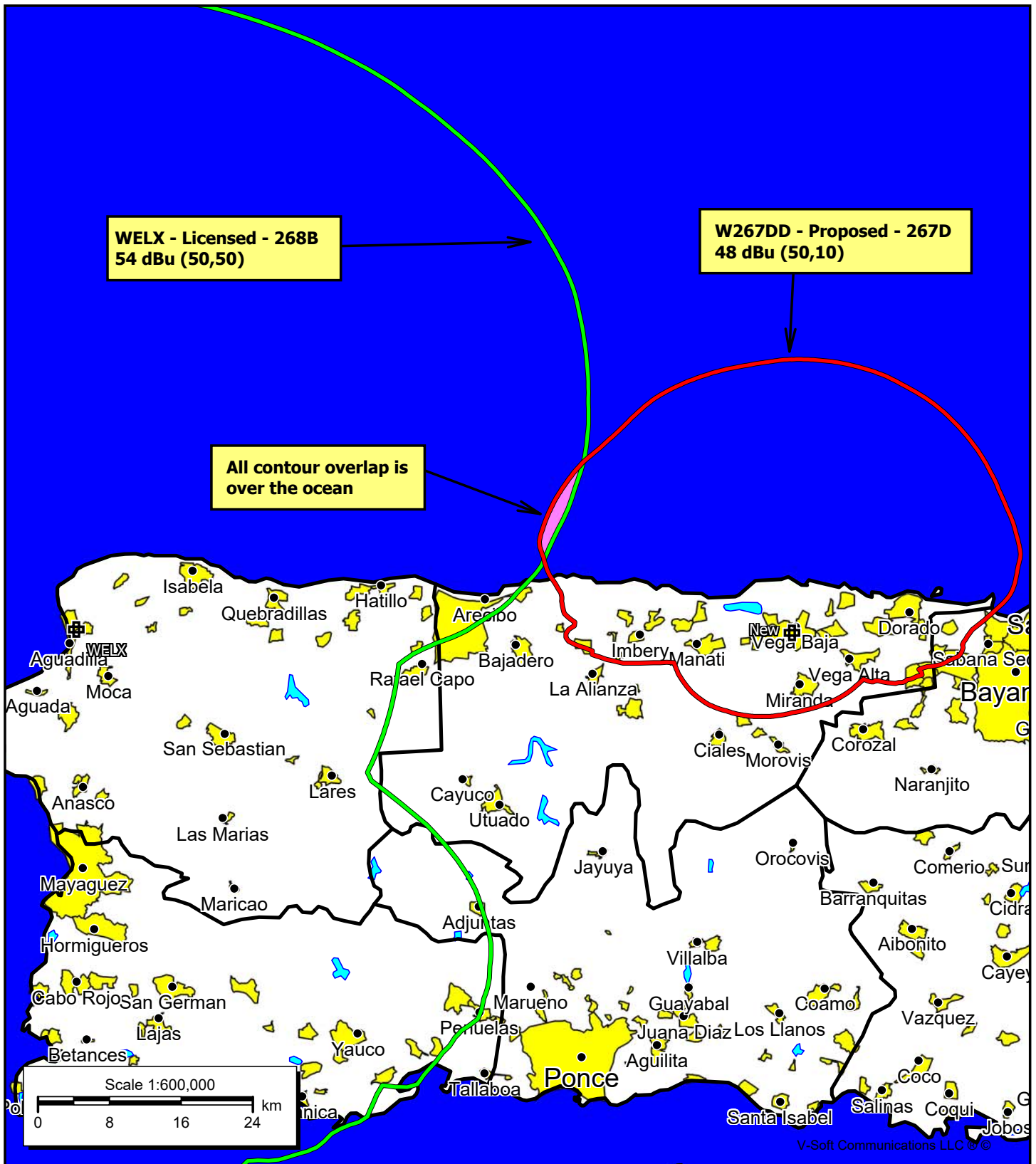
WXYX places 83.0 dBu over the proposed translator site. Adding the 40 dBu U/D ratio to the 83.0 dBu signal produces an interfering contour of 123.0 dBu. Given that the WZAR 116.5 dBu contour does not interfere with any resident, the smaller WXYX 123.0 dBu interfering contour will also not interfere with any resident's radio reception.

In conclusion, based on the foregoing explanation showing that no persons will receive interference, it is thought this application is in compliance with Section 74.1204 using Section 74.1204(d).

Bromo Communications, Inc.

PSIFMT-2 0.75 Wave





Clearance to WELX
W267DD - 0.25 KW (DA) - 125.6 M AMSL
Sabana, PR

Bromo Communications, Inc.

October 2019