

Special Displacement Window Application

LPTV or Translator Facility: WGEN-LD Facility ID 168060 Miami, FL
Licensed Ch. 45 File# BLDTT-20100111AEW

Nature of Displacement: Within 600 MHz wireless spectrum

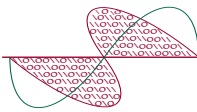
Proposed Facility: Ch. 8 3 kW ERP nondirectional

Modification Compliance: 0.0 km from licensed site
Contour comparison in Figure 1
TVStudy Analysis report in Table 1

Contingent Application Rule: No waiver required, not dependent on spectrum to be vacated

RF Exposure: The transmitting location is atop the One Biscayne Tower office building in downtown Miami. The calculated signal density near the building at two meters above ground level attributable to the proposed facility is 1.8 percent of the general population/uncontrolled maximum permitted exposure limit. Calculations conducted pursuant to FCC OET Bulletin Number 65 and incorporate 100 percent relative field at downward angles (from antenna elevation pattern data).

Following construction of the proposed facility, the applicant will conduct RF exposure measurements at rooftop and upper level indoor locations to evaluate the level of RF exposure resulting from the proposed facility. As necessary, based on these results and considering all emitters, appropriate exposure abatement procedures will be established and followed, in order to comply with the FCC's exposure limits. Such abatement procedures may involve the restriction of access to certain areas and/or facility modifications to reduce RF levels.



Chesapeake RF Consultants, LLC
Radiofrequency Consulting Engineers
Digital Television and Radio

Belle Glade

Palm Beach

Riviera Beach
West Palm Beach

Lake Worth

Boynton Beach

Delray Beach

Boca Raton

Deerfield Beach

Coral Springs

Tamarac

Broward

Oakland Park

Fort Lauderdale

Davie

Dania

Hollywood

Carol City

Opa-Locka

North Miami

Hialeah

Miami Springs

Miami

Westchester

Coral Gables

Kendall

Dade

South Miami Heights

Homestead

Hendry

Immokalee

Collier

Proposed Ch. 8
48 dBμ Contour

Licensed Ch. 45
BLDTT-20100111AEW
51 dBμ Contour

Figure 1
Coverage Contour Comparison
WGEN-LD Miami, FL
Facility ID 168060
Ch. 8 (digital) 3 kW

prepared for
KRCA License LLC

May, 2018

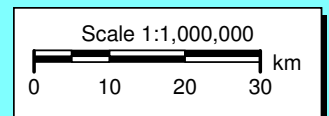


Table 1 WGEN-LD TVStudy Analysis of Proposal

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tvstudy v2.2.5 (4uoc83)
Database: localhost, Study: WGEN-LD prop_Ch8_, Model: Longley-Rice
Start: 2018.05.07 08:17:43

Study created: 2018.05.07 08:17:43

Study build station data: LMS TV 2018-05-06

Proposal: WGEN-LD D8 LD APP MIAMI, FL
File number: WGEN-LD prop_Ch8
Facility ID: 168060
Station data: User record
Record ID: 2047
Country: U.S.

Build options:
Protect pre-transition records not on baseline channel

Search options:
Baseline record excluded if station has CP
All APP records excluded

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	WSVN	D7	DT	LIC	MIAMI, FL	BLCDT20110127ABO	21.6 km
No	WFGC	D7	DT	CP	PALM BEACH, FL	BLANK0000034361	110.0
No	WGEN-TV	D8	DT	LIC	KEY WEST, FL	BLCDT20090619ACO	211.4
No	W08ED-D	D8	LD	LIC	MARATHON, FL	BLDVL20120203AAN	135.3
No	WOFT-LD	D8	LD	LIC	Orlando, FL	BLANK0000013855	324.9
Yes	WDGT-LD	D9	LD	CP	MIAMI, FL	BLANK0000005692	20.7
No	WSVN	D9	DT	CP	MIAMI, FL	BLANK00000024852	21.6
Yes	WDGT-LD	D9	LD	LIC	MIAMI, FL	BLDVL20141014AAW	20.7

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D8
Mask: Full Service
Latitude: 25 46 25.80 N (NAD83)
Longitude: 80 11 16.70 W
Height AMSL: 168.7 m
HAAT: 0.0 m
Peak ERP: 3.00 kW
Antenna: Omnidirectional
Elev Pattn: Generic
Elec Tilt: 1.00

48.0 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	3.00 kW	166.5 m	54.1 km
45.0	3.00	168.6	54.3
90.0	3.00	168.6	54.3
135.0	3.00	168.4	54.3
180.0	3.00	168.7	54.3
225.0	3.00	165.4	54.0
270.0	3.00	166.5	54.1
315.0	3.00	166.7	54.1

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m Computed HAAT: 167 m

Distance to Canadian border: 1779.2 km

Distance to Mexican border: 1672.8 km

Conditions at FCC monitoring station: Vero Beach FL
Bearing: 347.8 degrees Distance: 208.4 km

Proposal is not within the West Virginia quiet zone area

Table 1 WGEN-LD TVStudy Analysis of Proposal
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Conditions at Table Mountain receiving zone:
Bearing: 310.8 degrees Distance: 2811.6 km

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%

Interference to BLANK0000005692 CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WDGT-LD	D9	LD	CP	MIAMI, FL	BLANK0000005692	
Undesireds:	WGEN-LD	D8	LD	APP	MIAMI, FL	WGEN-LD prop_Ch8	20.7 km
	WSVN	D9	DT	CP	MIAMI, FL	BLANK0000024852	0.9
	WPLG	D10	DT	LIC	MIAMI, FL	BLCDT20100908AAG	0.9
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
8558.8 4,341,040		8558.8 4,341,040		8.9 20,000		8.9 20,000	0.00 0.00
Undesired		Total IX		Unique IX, before		Unique IX, after	
WGEN-LD D8 LD APP		1.0 4,458				0.0 0	
WSVN D9 DT CP		8550.0 4,321,040		7232.3 3,542,128		7231.3 3,537,670	
WPLG D10 DT LIC		1317.6 778,912		0.0 0		0.0 0	

Interference to BLDVL20141014AAW LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WDGT-LD	D9	LD	LIC	MIAMI, FL	BLDVL20141014AAW	
Undesireds:	WGEN-LD	D8	LD	APP	MIAMI, FL	WGEN-LD prop_Ch8	20.7 km
	WSVN	D9	DT	CP	MIAMI, FL	BLANK0000024852	0.9
	WPLG	D10	DT	LIC	MIAMI, FL	BLCDT20100908AAG	0.9
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
6640.2 4,336,618		6640.2 4,336,618		8.9 20,000		8.9 20,000	0.00 0.00
Undesired		Total IX		Unique IX, before		Unique IX, after	
WGEN-LD D8 LD APP		9.9 19,441				0.0 0	
WSVN D9 DT CP		6631.3 4,316,618		4621.3 3,548,969		4616.3 3,529,528	
WPLG D10 DT LIC		2010.0 767,649		0.0 0		0.0 0	

Interference to proposal scenario 1
27.61% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WGEN-LD	D8	LD	APP	MIAMI, FL	WGEN-LD prop_Ch8	
Undesireds:	WDGT-LD	D9	LD	CP	MIAMI, FL	BLANK0000005692	20.7 km
	WSVN	D9	DT	CP	MIAMI, FL	BLANK0000024852	21.6
Service area		Terrain-limited		IX-free		Percent IX	
9232.8 3,964,909		9232.8 3,964,909		7934.4 2,870,360		14.06 27.61	
Undesired		Total IX		Unique IX		Prct Unique IX	
WSVN D9 DT CP		1298.4 1,094,549		1298.4 1,094,549		14.06 27.61	

Interference to proposal scenario 2
27.78% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WGEN-LD	D8	LD	APP	MIAMI, FL	WGEN-LD prop_Ch8	
Undesireds:	WSVN	D9	DT	CP	MIAMI, FL	BLANK0000024852	21.6 km
	WDGT-LD	D9	LD	LIC	MIAMI, FL	BLDVL20141014AAW	20.7

Table 1 WGEN-LD TVStudy Analysis of Proposal
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Service area		Terrain-limited		IX-free		Percent IX	
9232.8	3,964,909	9232.8	3,964,909	7932.4	2,863,534	14.08	27.78
Undesired		Total IX		Unique IX		Prcnt Unique IX	
WSVN D9 DT CP		1298.4	1,094,549	1298.4	1,094,549	14.06	27.61
WDGT-LD D9 LD LIC		2.0	6,826	2.0	6,826	0.02	0.17