INTERFERENCE ANALYSIS FOR PROPOSED WPMF-CD
MIAMI, FL (CHANNEL 17)

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tvstudy v2.2.3 (Dxtpx3)
Database: localhost,  Study: wpmf-max20b,  Model: Longley-Rice

Study build station data: LMS TV 2017-10-11 (69)

    Proposal: WPMF-MAX20B D17 DC APP MIAMI, FL
 File number: wpmf-max20b
 Facility ID: 30129
Station data: User record
   Record ID: 1537
     Country: U.S.

Build options:
Protect records not on baseline channel
Protect LPTV records from Class A

Individual records excluded:
20110113AAB   W17DG-D D17 LD LIC MIAMI, FL BLDTL20110113AAB (Displaced by WPMF-CD reassignment facility.)

Stations affected by proposal:

Call      Chan  Svc Status  City, State              File Number            Distance
WPBF      D16   DT  LIC     TEQUESTA, FL             BLANK0000001052        129.3 km
W16CC-D   D16   LD  LIC     WEST GATE, FL            BLDTL20101112AQD         5.5
W16CC-D   D16   LD  CP      WEST GATE, FL            BLANK0000029326          0.0

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

    Channel: D17
       Mask: Full Service
   Latitude:  25 58  8.00 N (NAD83)
  Longitude:  80 13 19.00 W
Height AMSL: 196.5 m
       HAAT: 0.0 m
   Peak ERP: 15.0 kW
    Antenna: DIE-TLP16J 105.0 deg
Elev Pattrn: DIE-TLP-16J-1p5deg (Actual elevation pattern data is employed in the analysis.)
  Elec Tilt: 1.5

49.0 dBu contour:
Azimuth      ERP       HAAT   Distance
  0.0 deg   9.27 kW   194.9 m   49.3 km
 45.0       14.1      194.9     51.4
 90.0       5.16      195.6     46.4
135.0       6.65      194.9     47.7
180.0       14.6      194.2     51.6
225.0       5.29      195.3     46.5
270.0       1.56      192.8     40.0
315.0      0.960      195.1     37.6

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m   Computed HAAT: 195 m

**Proposal service area extends beyond baseline plus 1.0%
Proposal service area population is more than 95.0% of baseline

Distance to Canadian border: 1757.3 km

Distance to Mexican border: 1667.8 km

Conditions at FCC monitoring station: Vero Beach FL
Bearing: 347.4 degrees   Distance: 186.5 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 310.5 degrees   Distance: 2794.9 km

No land mobile station failures found

Proposal is not within the Offshore Radio Service protected area


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%
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MIAMI, FL (CHANNEL 17)

Interference to BLANK0000001052 LIC, scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WPBF	D16	DT	LIC	TEQUESTA, FL	BLANK0000001052	
Undesireds:	WPMF-CD	D17	DC	BL	MIAMI, FL	DTVBL30129	129.3 km
	WPMF-MAX20B	D17	DC	APP	MIAMI, FL	wpmf-max20b	129.3
	WBBH-TV	D15	DT	LIC	FORT MYERS, FL	BLCDT20030620AAA	139.7
	WRCF-CD	D16	DC	CP	ORLANDO, FL	BLANK0000024682	176.3
	WTCN-CA	D17	DC	CP	PALM BEACH, FL	BLANK0000027427	23.9

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
33446.6	3,198,486	33446.6	3,198,486	33436.5	3,198,429	33429.6	3,185,224	0.02	0.41

Undesired	Total IX		Unique IX, before		Unique IX, after	
WPMF-CD D17 DC BL	0.0	0	0.0	0		
WPMF-MAX20B D17 DC APP	6.9	13,205			6.9	13,205
WBBH-TV D15 DT LIC	10.0	57	10.0	57	10.0	57

Interference to BLANK0000001052 LIC, scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WPBF	D16	DT	LIC	TEQUESTA, FL	BLANK0000001052	
Undesireds:	WPMF-CD	D17	DC	BL	MIAMI, FL	DTVBL30129	129.3 km
	WPMF-MAX20B	D17	DC	APP	MIAMI, FL	wpmf-max20b	129.3
	WBBH-TV	D15	DT	LIC	FORT MYERS, FL	BLCDT20030620AAA	139.7
	WRCF-CD	D16	DC	BL	ORLANDO, FL	DTVBL10549	180.6
	WTCN-CA	D17	DC	CP	PALM BEACH, FL	BLANK0000027427	23.9

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
33446.6	3,198,486	33446.6	3,198,486	33434.5	3,198,429	33427.6	3,185,224	0.02	0.41

Undesired	Total IX		Unique IX, before		Unique IX, after	
WPMF-CD D17 DC BL	0.0	0	0.0	0		
WPMF-MAX20B D17 DC APP	6.9	13,205			6.9	13,205
WBBH-TV D15 DT LIC	10.0	57	10.0	57	10.0	57
WRCF-CD D16 DC BL	2.0	0	2.0	0	2.0	0

Interference to BLDTL20101112AQD LIC, scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W16CC-D	D16	LD	LIC	WEST GATE, FL	BLDTL20101112AQD	
Undesireds:	WPMF-CD	D17	DC	BL	MIAMI, FL	DTVBL30129	5.5 km
	WPMF-MAX20B	D17	DC	APP	MIAMI, FL	wpmf-max20b	5.5
	W16CA-D	D16	LD	LIC	LAYTON, FL	BLANK0000001634	93.6
	WPBF	D16	DT	LIC	TEQUESTA, FL	BLANK0000001052	127.4

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
1483.5	2,266,257	1483.5	2,266,257	1257.1	1,991,204	1308.6	2,051,259	-4.09	-3.02

Undesired	Total IX		Unique IX, before		Unique IX, after	
WPMF-CD D17 DC BL	97.0	69,026	53.4	64,443		
WPMF-MAX20B D17 DC APP	52.3	113,153			2.0	4,388
WPBF D16 DT LIC	172.9	210,610	129.4	206,027	122.6	101,845

Interference to BLANK0000029326 CP, scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W16CC-D	D16	LD	CP	WEST GATE, FL	BLANK0000029326	
Undesireds:	WPMF-CD	D17	DC	BL	MIAMI, FL	DTVBL30129	0.0 km
	WPMF-MAX20B	D17	DC	APP	MIAMI, FL	wpmf-max20b	0.0
	W16CA-D	D16	LD	LIC	LAYTON, FL	BLANK0000001634	90.1
	WPBF	D16	DT	LIC	TEQUESTA, FL	BLANK0000001052	129.3

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
1402.0	1,929,411	1401.0	1,927,121	1215.1	1,717,067	1219.1	1,745,563	-0.33	-1.66

Undesired	Total IX		Unique IX, before		Unique IX, after	
WPMF-CD D17 DC BL	45.5	105,344	27.7	76,762		
WPMF-MAX20B D17 DC APP	75.0	170,484			23.7	48,266
WPBF D16 DT LIC	158.3	133,292	140.4	104,710	106.9	11,074

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Interference to BLANK0000029326 CP, scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W16CC-D	D16	LD	CP	WEST GATE, FL	BLANK0000029326	
Undesireds:	WPMF-CD	D17	DC	BL	MIAMI, FL	DTVBL30129	0.0 km
	WPMF-MAX20B	D17	DC	APP	MIAMI, FL	wpmf-max20b	0.0
	W16CA-D	D16	LD	CP	LAYTON, FL	BLANK0000001818	53.6
	WPBF	D16	DT	LIC	TEQUESTA, FL	BLANK0000001052	129.3

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
1402.0	1,929,411	1401.0	1,927,121	1215.1	1,717,067	1219.1	1,745,563	-0.33	-1.66

Undesired	Total IX		Unique IX, before		Unique IX, after	
WPMF-CD D17 DC BL	45.5	105,344	27.7	76,762		
WPMF-MAX20B D17 DC APP	75.0	170,484			23.7	48,266
W16CA-D D16 LD CP	8.9	7,437	0.0	0	0.0	0
WPBF D16 DT LIC	158.3	133,292	135.5	97,481	101.0	10,866
