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

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tvstudy v2.2.5 (4uoc83)
Database: localhost,  Study: wbeh-cd3,  Model: Longley-Rice

Study build station data: LMS TV 2019-01-30

    Proposal: WBEH-CD3 D17 DC APP MIAMI, FL
 File number: wbeh-cd3
 Facility ID: 30129
Station data: User record
   Record ID: 3623
     Country: U.S.

Build options:
Protect LPTV records from Class A

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

Stations potentially affected by proposal:

IX   Call      Chan       Svc Status  City, State              File Number             Distance
No   W16CA-D   D16        LD  LIC     LAYTON, FL               BLANK0000001634          90.1 km
No   W16CA-D   D16        LD  CP      LAYTON, FL               BLANK0000001818          53.6
No   WANA-LD   D16        LD  LIC     NAPLES, FL               BLDTL20131018ABP        161.1
Yes  WPBF      D16        DT  LIC     TEQUESTA, FL             BLANK0000001052         129.3
Yes  W16CC-D   D16        LD  LIC     WEST GATE, FL            BLDTL20101112AQD          5.5
Yes  W16CC-D   D16        LD  CP      WEST GATE, FL            BLANK0000029326           0.0
No   WTCN-CA   D17        DC  CP      PALM BEACH, FL           BLANK0000033632         117.5
No   WTCN-CA   D17        DC  BL      PALM BEACH, FL           DTVBL70865              117.5
No   DWHRT-LD  D17z       LD  APP     SEBRING, ETC., FL        BLANK0000013279         206.8
No   WFTS-TV   D17        DT  CP      TAMPA, FL                BLANK0000034831         290.3
No   WFTS-TV   D17        DT  BL      TAMPA, FL                DTVBL64588              290.3
No   WTCE-TV   D18        DT  CP      FORT PIERCE, FL          BLANK0000034883         117.5
No   WTCE-TV   D18        DT  BL      FORT PIERCE, FL          DTVBL29715              117.5
No   W18DU-D   D18        LD  CP      MARATHON, FL             BNPDTL20090825BYR       153.2
Yes  WTXI-LD   D18        LD  APP     MIAMI, FL                BLANK0000053159           3.4
Yes  W17DG-D   D18        LD  APP     MIAMI, FL                BLANK0000053955           5.5
No   WUVF-LD   D18        LD  LIC     NAPLES, FL               BLDTL20140313ABX        160.8
No   W18EA-D   D18        LD  CP      SEBASTIAN, FL            BNPDTL20100402ACV       200.0

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: 187.6 m
       HAAT: 0.0 m
   Peak ERP: 15.0 kW
    Antenna: DIE-TLP-16J (ID 1002154) 105.0 deg
Elev Pattrn: DIE-TLP-16J
  Elec Tilt: 1.50

49.0 dBu contour:
Azimuth      ERP       HAAT   Distance
  0.0 deg   9.27 kW   186.0 m   48.8 km
 45.0       14.1      186.0     50.9
 90.0       5.16      186.7     45.9
135.0       6.65      186.0     47.1
180.0       14.6      185.3     51.1
225.0       5.29      186.4     46.0
270.0       1.56      183.9     39.5
315.0      0.960      186.2     37.1

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m   Computed HAAT: 186 m

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
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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%

Interference to BLANK0000001052 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WPBF	D16	DT	LIC	TEQUESTA, FL	BLANK0000001052	
Undesireds:	WBEH-CD	D17	DC	BL	MIAMI, FL	DTVBL30129	129.3 km
	WBEH-CD3	D17	DC	APP	MIAMI, FL	wbeh-cd3	129.3
	WBBH-TV	D15	DT	LIC	FORT MYERS, FL	BLCDT20030620AAA	139.7
	WRCF-CD	D16	DC	CP	ORLANDO, FL	BLANK0000034010	176.3
	WTCN-CA	D17	DC	CP	PALM BEACH, FL	BLANK0000033632	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	33377.8	3,187,030	33370.9	3,173,825	0.02 / 0.41

Undesired	Total IX		Unique IX, before		Unique IX, after	
WBEH-CD D17 DC BL	0.0	0	0.0	0		
WBEH-CD3 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 CP	58.7	11,399	58.7	11,399	58.7	11,399

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:	WBEH-CD	D17	DC	BL	MIAMI, FL	DTVBL30129	5.5 km
	WBEH-CD3	D17	DC	APP	MIAMI, FL	wbeh-cd3	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	
WBEH-CD D17 DC BL	97.0	69,026	53.4	64,443		
WBEH-CD3 D17 DC APP	52.3	116,092			2.0	4,388
WPBF D16 DT LIC	172.9	210,610	129.4	206,027	122.6	98,906

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:	WBEH-CD	D17	DC	BL	MIAMI, FL	DTVBL30129	0.0 km
	WBEH-CD3	D17	DC	APP	MIAMI, FL	wbeh-cd3	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	1218.1	1,745,636	-0.25 / -1.66

Undesired	Total IX		Unique IX, before		Unique IX, after	
WBEH-CD D17 DC BL	45.5	105,344	27.7	76,762		
WBEH-CD3 D17 DC APP	76.0	170,411			24.7	48,193
WPBF D16 DT LIC	158.3	133,292	140.4	104,710	106.9	11,074

Interference to BLANK0000053159 APP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WTXI-LD	D18	LD	APP	MIAMI, FL	BLANK0000053159	
Undesireds:	WBEH-CD	D17	DC	BL	MIAMI, FL	DTVBL30129	3.4 km
	WBEH-CD3	D17	DC	APP	MIAMI, FL	wbeh-cd3	3.4
	WTCE-TV	D18	DT	CP	FORT PIERCE, FL	BLANK0000034883	115.5
	W17DG-D	D18	LD	APP	MIAMI, FL	BLANK0000053955	2.1
	WSBS-CD	D19	DC	CP	MIAMI, ETC., FL	BLANK0000034105	0.0

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
4907.3	2,800,634	4907.3	2,800,634	1819.8	160,457	1819.8	160,457	0.00 / 0.00

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Undesired		Total IX		Unique IX, before		Unique IX, after	
WBEH-CD D17 DC BL	0.0	0		0.0	0		
WBEH-CD3 D17 DC APP	67.1	99,680				0.0	0
WTCE-TV D18 DT CP	157.8	140,339		44.3	0	44.3	0
W17DG-D D18 LD APP	2966.1	2,631,476		2538.5	2,317,799	2538.5	2,317,799
WSBS-CD D19 DC CP	504.7	322,378		62.3	8,701	61.3	6,025

Interference to BLANK0000053955 APP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W17DG-D	D18	LD	APP	MIAMI, FL	BLANK0000053955	
Undesireds:	WBEH-CD	D17	DC	BL	MIAMI, FL	DTVBL30129	5.5 km
	WBEH-CD3	D17	DC	APP	MIAMI, FL	wbeh-cd3	5.5
	WTCE-TV	D18	DT	CP	FORT PIERCE, FL	BLANK0000034883	114.8
	WTXI-LD	D18	LD	APP	MIAMI, FL	BLANK0000053159	2.1
	WSBS-CD	D19	DC	CP	MIAMI, ETC., FL	BLANK0000034105	2.1

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
3240.2	2,886,064	3240.2	2,886,064	16.8	39,017	16.8	39,017	0.00 0.00

Undesired		Total IX		Unique IX, before		Unique IX, after	
WBEH-CD D17 DC BL	0.0	0		0.0	0		
WBEH-CD3 D17 DC APP	147.0	152,150				0.0	0
WTCE-TV D18 DT CP	190.5	224,571		0.0	0	0.0	0
WTXI-LD D18 LD APP	3208.6	2,817,940		2549.9	2,369,158	2549.9	2,369,158
WSBS-CD D19 DC CP	673.5	477,889		14.8	29,107	14.8	29,107
