

Percent allowed new interference: 0.500  
 Percent allowed new interference to non Class A LPTV: 2.000  
 TW Census data selected 2000  
 Data Base Selected  
 /space/software/cdb/pt\_tvdb.sff  
 TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 09-28-2011 Time: 21:27:51

Record Selected for Analysis

WMDF USERRECORD-01 KEY WEST FL US  
 Channel 41 ERP 5.7 kW HAAT 30. m RCAMSL 00027 m  
 STRINGENT MASK  
 Latitude 024-33-18 Longitude 0081-48-05  
 Status APP Zone 3 Border Site number: 01  
 Dir Antenna Make CDB Model 00000000105460 Beam tilt N Ref  
 Azimuth 70.  
 Last update Cutoff date Docket  
 Comments  
 Applicant

Cell Size for Service Analysis 1.0 km/side

Distance Increments for Longley-Rice Analysis 1.00 km

Not full service station  
 Service Class = LD  
 Maximum height/power limits not checked

Site number	1		
Azimuth	ERP	HAAT	51.0 dBu F(50,90)
(Deg)	(kW)	(m)	(km)
0.0	0.096	33.0	9.7
45.0	3.468	33.0	23.2
90.0	4.216	33.0	24.1
135.0	0.228	33.0	12.0
180.0	0.014	33.0	6.1
225.0	0.009	33.0	5.5
270.0	0.021	33.0	6.7
315.0	0.014	33.0	6.1

Database HAAT does not agree with computed HAAT  
 Database HAAT: 30 Computed HAAT: 33

Contour Overlap to Proposed Station

Station  
WMDF-LP 41 KEY WEST FL BLTTL20070220ABP

Station inside contour of Digital LPTV station  
WMDF 41 KEY WEST FL USERRECORD01

Station  
WKWT-LP 42 KEY WEST FL BPTTL20110822ADZ

Station inside contour of Digital LPTV station  
WMDF 41 KEY WEST FL USERRECORD01

Station  
WKWT-LP 42 KEY WEST FL BLTTL20110822ABU

Station inside contour of Digital LPTV station  
WMDF 41 KEY WEST FL USERRECORD01

Contour Overlap Evaluation to Proposed Station Complete

NO LANDMOBILE SPACING VIOLATIONS FOUND

Checks to Site Number 01

Proposed facility OK to FCC Monitoring Stations

Proposed facility OK toward West Virginia quiet zone

Proposed facility OK toward Table Mountain

Proposed facility is beyond the Canadian coordination distance

Proposed facility is beyond the Mexican coordination distance

Proposed station is OK toward AM broadcast stations

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Start of Interference Analysis

Channel	Proposed Station Call	City/State	ARN
41	WMDF	KEY WEST FL	USERRECORD01

# Stations Potentially Affected by Proposed Station

Chan	Call	City/State	Dist(km)	Status
27	WGZT-LP	KEY WEST FL	0.5	LIC BLTTL
-20030804AAH				
27	WGZT-LP	KEY WEST FL	6.5	APP BSTA
-20060418AEM				
27	WGZT-LP	KEY WEST FL	1.3	APP BSTA
-20080115ADX				
38	W38AA	MARATHON FL	71.6	LIC BLTT
-20060103AAT				
39	W39AC	KEY WEST FL	0.0	LIC BLTTL
-20060103AAI				
41	WJAN-CD	MIAMI FL	173.2	LIC BLDTA
-20100907ACD				
41	WJAN-CD	MIAMI FL	193.9	APP BPTTA
-20010116AGG				
41	WZVN-TV	NAPLES FL	252.1	LIC BLCDT
-20030619AAM				
41	W41DV-D	WABASSCO FL	378.1	CP BNPDTL
-20091112AIY				
42	WKWT-LP	KEY WEST FL	6.3	APP BPTTL
-20110822ADZ				
42	WKWT-LP	KEY WEST FL	5.2	LIC BLTTL
-20110822ABU				
42	W42DM	MARATHON FL	88.4	CP BNPTTL
-20000828BHN				
43	W43AD	MATECUMBE FL	122.7	LIC BLTTL
-20010725ADO				
44	W44AC	KEY WEST FL	0.1	LIC BLTTL
-20040302AAT				
49	WKIZ-LP	KEY WEST FL	5.5	LIC BLTTL
-20041025ADZ				

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## Analysis of Interference to Affected Station 1

### Analysis of current record

Channel	Call	City/State	Application	Ref. No.
27	WGZT-LP	KEY WEST FL	BLTTL	-
20030804AAH				

## Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status
Application Ref. No.				

27	WXEL-TV	WEST PALM BEACH FL	273.8	LIC	BLEDT
-20040713AAJ					
28	W28CP	SUMMERLAND KEY FL	14.6	CP MOD	BMPTTL
-20090526AEA					
42	WKWT-LP	KEY WEST FL	6.1	APP	BPTTL
-20110822ADZ					
42	WKWT-LP	KEY WEST FL	5.0	LIC	BLTTL
-20110822ABU					
41	WMDF	KEY WEST FL	0.5	APP	

USERRECORD-01

Proposal causes no interference

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## Analysis of Interference to Affected Station 2

### Analysis of current record

Channel	Call	City/State	Application	Ref. No.
27	WGZT-LP	KEY WEST FL	BSTA	-
20060418AEM				

### Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status
Application Ref. No.				
27	WXEL-TV	WEST PALM BEACH FL	268.7	LIC BLEDT
-20040713AAJ				
28	W28CP	SUMMERLAND KEY FL	8.4	CP MOD BMPTTL
-20090526AEA				
42	WKWT-LP	KEY WEST FL	0.2	APP BPTTL
-20110822ADZ				
42	WKWT-LP	KEY WEST FL	1.7	LIC BLTTL
-20110822ABU				
41	WMDF	KEY WEST FL	6.5	APP

USERRECORD-01

Proposal causes no interference

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## Analysis of Interference to Affected Station 3

### Analysis of current record

Channel	Call	City/State	Application	Ref. No.
27	WGZT-LP	KEY WEST FL	BSTA	-
20080115ADX				

# Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status
27	WXEL-TV	WEST PALM BEACH FL	273.1	LIC BLEDT
-20040713AAJ				
28	W28CP	SUMMERLAND KEY FL	13.7	CP MOD BMPTTL
-20090526AEA				
42	WKWT-LP	KEY WEST FL	5.1	APP BPTTL
-20110822ADZ				
42	WKWT-LP	KEY WEST FL	4.0	LIC BLTTL
-20110822ABU				
41	WMDF	KEY WEST FL	1.3	APP

USERRECORD-01

Proposal causes no interference

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## Analysis of Interference to Affected Station 4

### Analysis of current record

Channel	Call	City/State	Application Ref. No.
38	W38AA	MARATHON FL	BLTT -
20060103AAT			

# Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status
38	WTCE-TV	FORT PIERCE FL	275.6	LIC BLEDT
-20090820ACI				
38	WPMF-LP	MIAMI FL	151.4	LIC BLTTA
-20030326AHQ				
41	WMDF	KEY WEST FL	71.6	APP

USERRECORD-01

Proposed station is beyond the site to  
nearest cell evaluation distance

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## Analysis of Interference to Affected Station 5

### Analysis of current record

Channel	Call	City/State	Application Ref. No.
39	W39AC	KEY WEST FL	BLTTL -

20060103AAI

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status
Application Ref. No.				
38	W38EK-D	KEY WEST FL	6.5	CP
BNPDTL				
-20090825APX				
41	WMDF	KEY WEST FL	0.0	APP
USERRECORD-01				
Proposal causes no interference				

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Analysis of Interference to Affected Station 6

Analysis of current record

Channel	Call	City/State	Application Ref. No.
41	WJAN-CD	MIAMI FL	BLDTA -
20100907ACD			

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status
Application Ref. No.				
40	WBEC-TV	BOCA RATON FL	56.7	LIC
BLEDT				
-20071220ABP				
41	WZVN-TV	NAPLES FL	192.5	LIC
BLCDT				
-20030619AAM				
41	WRBW	ORLANDO FL	346.2	LIC
BLCDT				
-20060810AIX				
42	WHDH	STUART FL	117.5	CP MOD
BMPCDT				
-20090115AFU				
41	WMDF	KEY WEST FL	173.2	APP
USERRECORD-01				
Proposal causes no interference				

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Analysis of Interference to Affected Station 7

Analysis of current record

Channel	Call	City/State	Application Ref. No.
41	WJAN-CD	MIAMI FL	BPTTA -
20010116AGG			

# Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status
38	WTCE-TV	FORT PIERCE FL	141.3	LIC BLEDT
-20090820ACI				
40	WBEC-TV	BOCA RATON FL	32.8	LIC BLEDT
-20071220ABP				
41	WZVN-TV	NAPLES FL	177.6	LIC BLCDT
-20030619AAM				
41	WRBW	ORLANDO FL	321.5	LIC BLCDT
-20060810AIX				
42	WHDT	STUART FL	91.1	CP MOD BMPCDT
-20090115AFU				
42	WHDT-DR	STUART FL	111.4	APP BPRM
-20080620AOT				
49	WFGC	PALM BEACH FL	112.1	LIC BLCDT
-20060627ABB				
49	WFGC	PALM BEACH FL	112.1	APP BPCDT
-20100309ABX				
41	WMDF	KEY WEST FL	193.9	APP
USERRECORD-01				
Proposal causes no interference				

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## Analysis of Interference to Affected Station 8

### Analysis of current record

Channel	Call	City/State	Application	Ref. No.
41	WZVN-TV	NAPLES FL	BLCDT	-
20030619AAM				

# Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status
40	WBEC-TV	BOCA RATON FL	182.0	LIC BLEDT
-20071220ABP				
40	WACX	LEESBURG FL	207.3	LIC BLCDT
-20060117ACC				
41	WRBW	ORLANDO FL	210.4	LIC BLCDT
-20060810AIX				
42	WXPX-TV	BRADENTON FL	121.1	LIC BLCDT
-20100713AAA				
42	WHDT	STUART FL	153.7	CP MOD BMPCDT
-20090115AFU				
42	WHDT-DR	STUART FL	167.6	APP BPRM
-20080620AOT				

41 WMDF KEY WEST FL 252.1 APP  
 USERRECORD-01  
 Proposal causes no interference

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# Analysis of Interference to Affected Station 9

Analysis of current record  
 Channel Call City/State Application Ref. No.  
 41 W41DV-D WABASSCO FL BNPDTL -  
 20091112AIY

## Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status
40	WACX	LEESBURG FL	112.7	LIC BLCDT
-20060117ACC				
41	WZVN-TV	NAPLES FL	164.3	LIC BLCDT
-20030619AAM				
41	WRBW	ORLANDO FL	113.7	LIC BLCDT
-20060810AIX				
42	WHDT	STUART FL	130.5	CP MOD BMPCDT
-20090115AFU				
42	WHDT-DR	STUART FL	118.2	APP BPRM
-20080620AOT				
42	NEW	WABASSO FL	5.8	APP BNPDTL
-20090901AIH				
41	WMDF	KEY WEST FL	378.1	APP

USERRECORD-01

Proposed station is beyond the site to  
 nearest cell evaluation distance

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# Analysis of Interference to Affected Station 10

Analysis of current record  
 Channel Call City/State Application Ref. No.  
 42 WKWT-LP KEY WEST FL BPTTL -  
 20110822ADZ

## Stations Potentially Affecting This Station



Chan	Call	City/State	Dist(km)	Status
41	WMDF-LP	KEY WEST FL	0.2	LIC BLTTL
-20070220ABP				
42	WXPX-TV	BRADENTON FL	364.6	LIC BLCDT
-20100713AAA				
42	WHDT	STUART FL	268.8	CP MOD BMPCDT
-20090115AFU				
42	WHDT-DR	STUART FL	291.7	APP BPRM
-20080620AOT				
41	WMDF	KEY WEST FL	6.3	APP

USERRECORD-01

Total scenarios = 1

Result key: 1  
Scenario 1 Affected station 10  
Before Analysis

Results for: 42N FL KEY WEST BPTTL 20110822ADZ  
APP

	POPULATION	AREA (sq km)
within Noise Limited Contour	12606	12.0
not affected by terrain losses	11367	10.0
lost to NTSC IX	11367	10.0
lost to additional IX by ATV	0	0.0
lost to all IX	11367	10.0

Potential Interfering Stations Included in above Scenario 1

41N FL KEY WEST BLTTL 20070220ABP LIC

After Analysis

Results for: 42N FL KEY WEST BPTTL 20110822ADZ  
APP

	POPULATION	AREA (sq km)
within Noise Limited Contour	12606	12.0
not affected by terrain losses	11367	10.0
lost to NTSC IX	0	0.0
lost to additional IX by ATV	10336	9.0
lost to all IX	10336	9.0

Potential Interfering Stations Included in above Scenario 1

41A FL KEY WEST USERRECORD01 APP

Percent new IX = -8.1786%

Worst case new IX -8.1786% Scenario 1

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# Analysis of Interference to Affected Station 11

## Analysis of current record

Channel	Call	City/State	Application Ref. No.
42	WKWT-LP	KEY WEST FL	BLTTL -
20110822ABU			

## Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status
Application Ref. No.				
41	WMDF-LP	KEY WEST FL	1.7	LIC BLTTL
-20070220ABP				
42	WXPX-TV	BRADENTON FL	365.9	LIC BLCDD
-20100713AAA				
42	WHDT	STUART FL	270.4	CP MOD BMPCDD
-20090115AFU				
42	WHDT-DR	STUART FL	293.3	APP BPRM
-20080620AOT				
41	WMDF	KEY WEST FL	5.2	APP
USERRECORD-01				
Proposal causes no interference				

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# Analysis of Interference to Affected Station 12

## Analysis of current record

Channel	Call	City/State	Application Ref. No.
42	W42DM	MARATHON FL	BNPTTL -
20000828BHN			

## Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status
Application Ref. No.				
42	WXPX-TV	BRADENTON FL	364.1	LIC BLCDD
-20100713AAA				
42	WHDT	STUART FL	214.3	CP MOD BMPCDD
-20090115AFU				
42	WHDT-DR	STUART FL	235.6	APP BPRM
-20080620AOT				
41	WMDF	KEY WEST FL	88.4	APP
USERRECORD-01				

Proposal causes no interference

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#### Analysis of Interference to Affected Station 13

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
43	W43AD	MATECUMBE FL	BLTTL	-

20010725ADO

#### Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status
35	WPXM-TV	MIAMI FL	128.5	LIC
35	WPXM-TV	MIAMI FL	128.5	APP
40	WBEC-TV	BOCA RATON FL	128.5	LIC
43	W43CB-D	MATECUMBE FL	72.9	CP
43	WWDT-CA	NAPLES FL	214.9	LIC
43	WTCN-CA	PALM BEACH FL	240.3	STA
46	WHFT-TV	MIAMI FL	130.0	LIC
47	WAMI-DT	HOLLYWOOD FL	128.5	LIC
41	WMDF	KEY WEST FL	122.7	APP

Application Ref. No.  
-20090612AIT  
-20080620AMR  
-20071220ABP  
-20090618ADJ  
-20041022AEI  
-20070706AAU  
-20091124AGO  
-20090311ACD  
USERRECORD-01

Proposed station is beyond the site to  
nearest cell evaluation distance

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#### Analysis of Interference to Affected Station 14

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
44	W44AC	KEY WEST FL	BLTTL	-

20040302AAT

# Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status
44	WTOG	ST. PETERSBURG FL	366.9	CP MOD BMPCDT
-20080606AAO				
41	WMDF	KEY WEST FL	0.1	APP
USERRECORD-01				
Proposal causes no interference				

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## Analysis of Interference to Affected Station 15

### Analysis of current record

Channel	Call	City/State	Application Ref. No.
49	WKIZ-LP	KEY WEST FL	BLTTL -
20041025ADZ			

# Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status
49	WFGC	PALM BEACH FL	288.9	LIC BLCDDT
-20060627ABB				
49	WFGC	PALM BEACH FL	288.9	APP BPCDDT
-20100309ABX				
50	WGZT-LD	KEY WEST FL	1.0	CP BDCCDDL
-20061025AFE				
41	WMDF	KEY WEST FL	5.5	APP
USERRECORD-01				
Proposal causes no interference				

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## Analysis of Interference to Affected Station 16

### Analysis of current record

Channel	Call	City/State	Application Ref. No.
41	WMDF	KEY WEST FL	USERRECORD-01

# Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status
41	WZVN-TV	NAPLES FL	252.1	LIC BLCDDT

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-20030619AAM
  42   WKWT-LP   KEY WEST FL           6.3   APP     BPTTL
-20110822ADZ
  42   WKWT-LP   KEY WEST FL           5.2   LIC     BLTTL
-20110822ABU

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Total scenarios = 1

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Result key:      2
Scenario        1   Affected station      16
Before Analysis

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Results for: 41A FL KEY WEST           USERRECORD01
APP

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  HAAT   30.0 m, ATV ERP   5.7 kW
                                POPULATION   AREA (sq km)
  within Noise Limited Contour      34234      575.2
  not affected by terrain losses      34234      575.2
  lost to NTSC IX                     0         0.0
  lost to additional IX by ATV         0         0.0
  lost to ATV IX only                  0         0.0
  lost to all IX                       0         0.0

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Potential Interfering Stations Included in above Scenario 1

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FINISHED FINISHED FINISHED FINISHED FINISHED FINISHED