

## OET-69 Interference Analysis (WRDQ, Orlando, FL, Channel 27)

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  
/export/home/cdb/pt\_tvdb.sff

### TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 01-04-2011

Record Selected for Analysis

WRDQ      USERRECORD-01      ORLANDO      FL US  
Channel 27 ERP 1000. kW    HAAT 489. m    RCAMSL 00501 m  
Latitude 028-34-07    Longitude 0081-03-16  
Status APP      Zone 3      Border      Site number: 01  
Dir Antenna Make usr    Model WRDQ      Beam tilt N    Ref Azimuth 0.  
Last update      Cutoff date      Docket  
Comments  
Applicant

Cell Size for Service Analysis 2.0 km/side

Distance Increments for Longley-Rice Analysis 1.00 km

Facility (site # 01) does not meet maximum height/power limits  
Channel 27    ERP = 1000.00    HAAT = 489.

Site number	1			
Azimuth	ERP	HAAT	41.0 dBu F(50,90)	
(Deg)	(kW)	(m)	(km)	
0.0	425.104	495.5	105.9	
45.0	378.225	498.8	105.1	
90.0	427.716	497.4	106.1	
135.0	376.996	491.8	104.5	
180.0	425.104	480.2	104.6	
225.0	377.610	482.8	103.7	
270.0	422.500	483.7	104.9	
315.0	373.932	485.9	103.9	

Evaluation toward Class A Stations from site # 01

Contour overlap to Class A station  
WRCF-LP 29 ORLANDO      FL BLTTL      20001020AAD

Class A Evaluation Complete

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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# OET-69 Interference Analysis (WRDQ, Orlando, FL, Channel 27)

## Start of Interference Analysis

Channel	Proposed Station Call	City/State	ARN
27	WRDQ	ORLANDO FL	USERRECORD01

### Stations Potentially Affected by Proposed Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
26	WKMG-TV	ORLANDO FL	4.6	LIC	BLCDT	20090618ABB
27	WTXL-TV	TALLAHASSEE FL	365.8	LIC	BLCDT	20090217ABY
27	WXEL-TV	WEST PALM BEACH FL	235.4	LIC	BLEDT	20040713AAJ
28	WDYB-LP	DAYTONA BEACH FL	73.8	CP	BDISTTA	20060922ACY
28	WGFL	HIGH SPRINGS FL	188.9	LIC	BLCDT	20060714ABC
29	WMVJ-CA	MELBOURNE FL	59.0	LIC	BLTTL	20010711ACI
29	WRCF-LP	ORLANDO FL	31.9	LIC	BLTTL	20001020AAD
31	WTMO-CA	ORLANDO FL	39.5	LIC	BLTT	19980529JK

%%%

### Analysis of Interference to Affected Station 1

#### Analysis of current record

Channel	Call	City/State	Application	Ref. No.
26	WKMG-TV	ORLANDO FL	BLCDT	-20090618ABB

### Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
25	WVEA-TV	VENICE FL	146.8	LIC	BLCDT	-20060627ABX
27	WRDQ	ORLANDO FL	4.6	PLN	DTVPLN	-DTVP0975
27	WRDQ	ORLANDO FL	4.6	APP	USERRECORD-01	

Total scenarios = 1

Result key: 1  
Scenario 1 Affected station 1  
Before Analysis

Results for: 26A FL ORLANDO BLCDT 20090618ABB LIC

HAAT	516.0 m, ATV ERP	944.0 kW	POPULATION	AREA (sq km)
within Noise Limited Contour			3008255	36807.7
not affected by terrain losses			3008255	36807.7
lost to NTSC IX			0	0.0
lost to additional IX by ATV			894	4.0
lost to ATV IX only			894	4.0
lost to all IX			894	4.0

### Potential Interfering Stations Included in above Scenario 1

27A FL ORLANDO	DTVPLN	DTVP0975	PLN
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### After Analysis

Results for: 26A FL ORLANDO BLCDT 20090618ABB LIC

HAAT	516.0 m, ATV ERP	944.0 kW	POPULATION	AREA (sq km)
within Noise Limited Contour			3008255	36807.7
not affected by terrain losses			3008255	36807.7
lost to NTSC IX			0	0.0
lost to additional IX by ATV			8403	32.2
lost to ATV IX only			8403	32.2
lost to all IX			8403	32.2

### Potential Interfering Stations Included in above Scenario 1

27A FL ORLANDO	USERRECORD01	APP
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Percent new IX = 0.2497%

## OET-69 Interference Analysis (WRDQ, Orlando, FL, Channel 27)

Worst case new IX      0.2497% Scenario      1

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### Analysis of Interference to Affected Station      2

#### Analysis of current record

Channel	Call	City/State	Application Ref. No.
27	WTXL-TV	TALLAHASSEE FL	BLCDT -20090217ABY

#### Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
27	WKRQ-TV	MOBILE AL	369.1	CP	BPCDT -20080317AIF
27	WKRQ-TV	MOBILE AL	369.1	LIC	BLCDT -20050705AAO
27	WAIQ	MONTGOMERY AL	291.1	LIC	BLEDT -20060706ACK
27	WRDQ	ORLANDO FL	365.8	PLN	DTVPLN -DTVP0975
27	WAGA-TV	ATLANTA GA	349.5	LIC	BLCDT -20060728AEL
28	WGFL	HIGH SPRINGS FL	177.0	LIC	BLCDT -20060714ABC
27	WRDQ	ORLANDO FL	365.8	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	WXEL-TV	WEST PALM BEACH FL	BLEDT -20040713AAJ

#### Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
27	WRDQ	ORLANDO FL	235.4	PLN	DTVPLN -DTVP0975
28	WFLX	WEST PALM BEACH FL	0.0	LIC	BLCDT -20020417AAP
27	WRDQ	ORLANDO FL	235.4	APP	USERRECORD-01

Total scenarios =      1

Result key:      2

Scenario      1      Affected station      3

Before Analysis

Results for: 27A FL WEST PALM BEACH      BLEDT      20040713AAJ      LIC  
HAAT 440.0 m, ATV ERP 400.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	4992027	26429.0
not affected by terrain losses	4992027	26429.0
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

Potential Interfering Stations Included in above Scenario      1

#### After Analysis

Results for: 27A FL WEST PALM BEACH      BLEDT      20040713AAJ      LIC  
HAAT 440.0 m, ATV ERP 400.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	4992027	26429.0
not affected by terrain losses	4992027	26429.0
lost to NTSC IX	0	0.0
lost to additional IX by ATV	459	16.0
lost to ATV IX only	459	16.0
lost to all IX	459	16.0

## OET-69 Interference Analysis (WRDQ, Orlando, FL, Channel 27)

Potential Interfering Stations Included in above Scenario 1

27A FL ORLANDO USERRECORD01 APP

Percent new IX = 0.0092%

Worst case new IX 0.0092% Scenario 1

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### Analysis of Interference to Affected Station 4

#### Analysis of current record

Channel	Call	City/State	Application Ref. No.
28	WDYB-LP	DAYTONA BEACH FL	BDISTTA -20060922ACY

#### Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
26	WKMG-TV	ORLANDO FL	69.3	LIC	BLCDDT -20090618ABB
27	WRDQ	ORLANDO FL	73.8	PLN	DTVPLN -DTVP0975
28	WGFL	HIGH SPRINGS FL	155.1	LIC	BLCDDT -20060714ABC
28	WDTN-LP	ORLANDO FL	72.5	CP	BDISDTL -20080507ACB
28	WQXT-CA	ST. AUGUSTINE FL	81.7	CP	BDISTTA -20070625AAL
28	WFLX	WEST PALM BEACH FL	305.3	LIC	BLCDDT -20020417AAP
28	WTGS	HARDEEVILLE SC	314.0	LIC	BLCDDT -20090706AEU
30	WBCC	COCOA FL	69.3	LIC	BLEDDT -20030429ABH
31	WOGX	OCALA FL	126.0	LIC	BLCDDT -20020730ABS
32	WAWS	JACKSONVILLE FL	127.4	LIC	BLCDDT -20030328ANQ
36	WUFT	GAINESVILLE FL	141.6	LIC	BLEDDT -20040304AAF
42	WJXT	JACKSONVILLE FL	126.0	LIC	BLCDDT -20020405AAX
43	WOTF-DT	MELBOURNE FL	71.9	LIC	BLCDDT -20090616ACO
27	WRDQ	ORLANDO FL	73.8	APP	USERRECORD-01

Proposal causes no interference

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### Analysis of Interference to Affected Station 5

#### Analysis of current record

Channel	Call	City/State	Application Ref. No.
28	WGFL	HIGH SPRINGS FL	BLCDDT -20060714ABC

#### Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
27	WRDQ	ORLANDO FL	188.9	PLN	DTVPLN -DTVP0975
27	WTXL-TV	TALLAHASSEE FL	177.0	LIC	BLCDDT -20090217ABY
28	WFLX	WEST PALM BEACH FL	409.1	LIC	BLCDDT -20020417AAP
28	WTGS	HARDEEVILLE SC	293.2	LIC	BLCDDT -20090706AEU
29	WFTS-TV	TAMPA FL	201.0	LIC	BLCDDT -20090320AGN
27	WRDQ	ORLANDO FL	188.9	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.
29	WMVJ-CA	MELBOURNE FL	BLTTL -20010711ACI

#### Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
22	WOFL	ORLANDO FL	63.9	CP	BPCDDT -20080618ADS
22	WOFL	ORLANDO FL	63.9	LIC	BLCDDT -20000706AEZ
26	WKMG-TV	ORLANDO FL	63.0	LIC	BLCDDT -20090618ABB

## OET-69 Interference Analysis (WRDQ, Orlando, FL, Channel 27)

27	WRDQ	ORLANDO FL	59.0	PLN	DTVPLN	-DTVP0975
29	WRCF-LP	ORLANDO FL	79.9	LIC	BLTTL	-20001020AAD
29	WFTS-TV	TAMPA FL	156.5	LIC	BLCDT	-20090320AGN
30	WBCC	COCOA FL	63.0	LIC	BLEDT	-20030429ABH
33	WDSC-TV	NEW SMYRNA BEACH FL	63.0	LIC	BLEDT	-20050121AKU
43	WOTF-DT	MELBOURNE FL	62.2	LIC	BLCDT	-20090616ACO
27	WRDQ	ORLANDO FL	59.0	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.
29	WRCF-LP	ORLANDO FL	BLTTL -20001020AAD

#### Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
21	WCLF	CLEARWATER FL	117.8	CP	BPCDT -20080619AHV
21	WCLF	CLEARWATER FL	117.8	LIC	BLCDT -20060627AAQ
22	WOFL	ORLANDO FL	29.5	CP	BPCDT -20080618ADS
22	WOFL	ORLANDO FL	29.5	LIC	BLCDT -20000706AEZ
25	WVEA-TV	VENICE FL	117.8	LIC	BLCDT -20060627ABX
26	WKMG-TV	ORLANDO FL	32.1	LIC	BLCDT -20090618ABB
27	WRDQ	ORLANDO FL	31.9	PLN	DTVPLN -DTVP0975
28	WDTO-LP	ORLANDO FL	30.0	CP	BDISDTL -20080507ACB
29	WMVJ-CA	MELBOURNE FL	79.9	LIC	BLTTL -20010711ACI
29	WMVJ-CA	MELBOURNE FL	88.0	CP	BDFCDTA -20080804AAZ
29	WFTS-TV	TAMPA FL	116.2	LIC	BLCDT -20090320AGN
30	WBCC	COCOA FL	32.1	LIC	BLEDT -20030429ABH
31	WOGX	OCALA FL	129.6	LIC	BLCDT -20020730ABS
32	WTTA	ST. PETERSBURG FL	116.2	CP MOD	BMPCDT -20100129AEE
32	WTTA-DR	ST. PETERSBURG FL	116.2	APP	BPRM -20090820ADU
33	WDSC-TV	NEW SMYRNA BEACH FL	32.1	LIC	BLEDT -20050121AKU
43	WOTF-DT	MELBOURNE FL	29.4	LIC	BLCDT -20090616ACO
44	WTOG	ST. PETERSBURG FL	117.4	CP MOD	BMPCDT -20080606AAO
27	WRDQ	ORLANDO FL	31.9	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.
31	WTMO-CA	ORLANDO FL	BLTT -19980529JK

#### Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
23	WMFE-TV	ORLANDO FL	35.5	LIC	BLEDT -20090225ABF
27	WRDQ	ORLANDO FL	39.5	PLN	DTVPLN -DTVP0975
29	WFTS-TV	TAMPA FL	115.9	LIC	BLCDT -20090320AGN
30	WBCC	COCOA FL	38.8	LIC	BLEDT -20030429ABH
31	WGCU	FORT MYERS FL	201.3	CP	BPEDT -20100505AFP
31	WGCU	FORT MYERS FL	201.3	LIC	BLEDT -20080922AEM
31	WTVJ	MIAMI FL	317.5	LIC	BLCDT -20030707ABG
31	WOGX	OCALA FL	119.1	LIC	BLCDT -20020730ABS
31	W31CZ-D	TAMPA FL	117.6	LIC	BLDTL -20100827AAE
32	WTTA	ST. PETERSBURG FL	115.9	CP MOD	BMPCDT -20100129AEE
32	WTTA-DR	ST. PETERSBURG FL	115.9	APP	BPRM -20090820ADU
33	WDSC-TV	NEW SMYRNA BEACH FL	38.8	LIC	BLEDT -20050121AKU
34	WUSF-TV	TAMPA FL	115.5	LIC	BLEDT -20060913ABQ
39	WFTV	ORLANDO FL	39.5	LIC	BLCDT -20010430ABF
46	WTGL	LEESBURG FL	36.6	LIC	BLEDT -20090402AHH
27	WRDQ	ORLANDO FL	39.5	APP	USERRECORD-01

Proposal causes no interference

# OET-69 Interference Analysis (WRDQ, Orlando, FL, Channel 27)

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Analysis of Interference to Affected Station 9

Analysis of current record

Channel	Call	City/State	Application Ref. No.
27	WRDQ	ORLANDO FL	USERRECORD-01

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
26	WKMG-TV	ORLANDO FL	4.6	LIC	BLCDT -20090618ABB
27	WTXL-TV	TALLAHASSEE FL	365.8	LIC	BLCDT -20090217ABY
27	WXEL-TV	WEST PALM BEACH FL	235.4	LIC	BLEDT -20040713AAJ
28	WGFL	HIGH SPRINGS FL	188.9	LIC	BLCDT -20060714ABC

Total scenarios = 1

Result key: 3

Scenario 1 Affected station 9

Before Analysis

Results for: 27A FL ORLANDO USERRECORD01 APP

HAAT 489.0 m, ATV ERP 1000.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	3135865	38362.9
not affected by terrain losses	3135865	38362.9
lost to NTSC IX	0	0.0
lost to additional IX by ATV	2479	108.7
lost to ATV IX only	2479	108.7
lost to all IX	2479	108.7

Potential Interfering Stations Included in above Scenario 1

26A FL ORLANDO	BLCDT	20090618ABB	LIC
27A FL WEST PALM BEACH	BLEDT	20040713AAJ	LIC

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