

WPEC-DT, West Palm Beach, FL, OET-69 Post-Transition Interference Analysis

Percent allowed new interference: 0.500
Percent allowed new interference to Class A: 0.500
TW Census data selected 2000
Post Transition Data Base Selected /export/home/cdbs/pt_tvdb.sff

TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Record Selected for Analysis

WPEC DT USERRECORD-01 WEST PALM BEACH FL US
Channel 13 ERP 90. kW HAAT 309. m RCAMSL 00314 m
Latitude 026-35-18 Longitude 0080-12-30
Status APP Zone 3 Border
Dir Antenna Make usr Model 800126 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 meets maximum height/power limits

Azimuth (Deg)	ERP (kW)	HAAT (m)	36.0 dBu F(50,90) (km)
0.0	74.038	308.9	109.5
45.0	5.402	308.9	88.3
90.0	9.332	309.1	92.5
135.0	5.402	309.0	88.3
180.0	74.038	308.7	109.5
225.0	44.732	310.0	105.1
270.0	43.848	310.0	104.9
315.0	44.732	309.7	105.1

Evaluation toward Class A Stations

No Spacing violations or contour overlap to Class A stations

Class A Evaluation Complete

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

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Proposed facility is beyond the Mexican coordination distance

Proposed station is OK toward AM broadcast stations

Start of Interference Analysis

Channel	Proposed Station Call	City/State	ARN
13	WPEC DT	WEST PALM BEACH FL	USERRECORD01

Stations Potentially Affected by Proposed Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
12	WPTV	WEST PALM BEACH FL	0.4	PLN	DTVPLN	-DTVP0368
12	WPTV	WEST PALM BEACH FL	0.4	CP	BPCDT	-20080228AAA
13	WEDU	TAMPA FL	245.8	PLN	DTVPLN	-DTVP0427
13	WEDU	TAMPA FL	246.7	CP	BPEDT	-20080317ACK

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Analysis of Interference to Affected Station 1

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
12	WPTV	WEST PALM BEACH FL	DTVPLN	-DTVP0368

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
12	WTVT	TAMPA FL	242.7	LIC	BLCDT	-20000501ABM
12	WTVT	TAMPA FL	242.7	PLN	DTVPLN	-DTVP0367
12	WTVT	TAMPA FL	242.7	CP	BPCDT	-20080311ACM
13	WPEC	WEST PALM BEACH FL	0.4	PLN	DTVPLN	-DTVP0428
13	WPEC DT	WEST PALM BEACH FL	0.4	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.
12	WPTV	WEST PALM BEACH FL	BPCDT	-20080228AAA

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
12	WTVT	TAMPA FL	242.7	LIC	BLCDT	-20000501ABM
12	WTVT	TAMPA FL	242.7	PLN	DTVPLN	-DTVP0367
12	WTVT	TAMPA FL	242.7	CP	BPCDT	-20080311ACM
13	WPEC	WEST PALM BEACH FL	0.4	PLN	DTVPLN	-DTVP0428
13	WPEC DT	WEST PALM BEACH FL	0.4	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.
13	WEDU	TAMPA FL	DTVPLN	-DTVP0427

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
12	WTVT	TAMPA FL	2.8	LIC	BLCDDT	-20000501ABM
12	WTVT	TAMPA FL	2.8	PLN	DTVPLN	-DTVP0367
12	WTVT	TAMPA FL	2.8	CP	BPCDDT	-20080311ACM
13	WTLV	JACKSONVILLE FL	280.3	LIC	BLCDDT	-20040421AAH
13	WTLV	JACKSONVILLE FL	280.3	PLN	DTVPLN	-DTVP0425
13	WMBB	PANAMA CITY FL	413.1	PLN	DTVPLN	-DTVP0426
13	WMBB	PANAMA CITY FL	413.1	CP	BPCDDT	-20080410AAW
13	WPEC	WEST PALM BEACH FL	245.8	PLN	DTVPLN	-DTVP0428
13	WPECDDT	WEST PALM BEACH FL	245.8	APP	USERRECORD-01	

Total scenarios = 2

Result key: 1
 Scenario 1 Affected station 3
 Before Analysis

Results for: 13A FL TAMPA DTVPLN DTVP0427 PLN
 HAAT 473.0 m, ATV ERP 17.1 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	4175710	37395.0
not affected by terrain losses	4174829	37355.0
lost to NTSC IX	0	0.0
lost to additional IX by ATV	50904	988.0
lost to ATV IX only	50904	988.0
lost to all IX	50904	988.0

Potential Interfering Stations Included in above Scenario 1

13A FL JACKSONVILLE	BLCDDT	20040421AAH	LIC
13A FL WEST PALM BEACH	DTVPLN	DTVP0428	PLN

After Analysis

Results for: 13A FL TAMPA DTVPLN DTVP0427 PLN
 HAAT 473.0 m, ATV ERP 17.1 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	4175710	37395.0
not affected by terrain losses	4174829	37355.0
lost to NTSC IX	0	0.0
lost to additional IX by ATV	60384	1344.0
lost to ATV IX only	60384	1344.0
lost to all IX	60384	1344.0

Potential Interfering Stations Included in above Scenario 1

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13A FL JACKSONVILLE BLCDT 20040421AAH LIC
 13A FL WEST PALM BEACH USERRECORD01 APP

Percent new IX = 0.2299%

Result key: 2
 Scenario 2 Affected station 3
 Before Analysis

Results for: 13A FL TAMPA DTVPLN DTVP0427 PLN
 HAAT 473.0 m, ATV ERP 17.1 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	4175710	37395.0
not affected by terrain losses	4174829	37355.0
lost to NTSC IX	0	0.0
lost to additional IX by ATV	50904	988.0
lost to ATV IX only	50904	988.0
lost to all IX	50904	988.0

Potential Interfering Stations Included in above Scenario 2

13A FL JACKSONVILLE DTVPLN DTVP0425 PLN
 13A FL WEST PALM BEACH DTVPLN DTVP0428 PLN

After Analysis

Results for: 13A FL TAMPA DTVPLN DTVP0427 PLN
 HAAT 473.0 m, ATV ERP 17.1 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	4175710	37395.0
not affected by terrain losses	4174829	37355.0
lost to NTSC IX	0	0.0
lost to additional IX by ATV	60384	1344.0
lost to ATV IX only	60384	1344.0
lost to all IX	60384	1344.0

Potential Interfering Stations Included in above Scenario 2

13A FL JACKSONVILLE DTVPLN DTVP0425 PLN
 13A FL WEST PALM BEACH USERRECORD01 APP

Percent new IX = 0.2299%

Worst case new IX 0.2299% Scenario 1

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Analysis of Interference to Affected Station 4

Analysis of current record

Channel	Call	City/State	Application Ref. No.
13	WEDU	TAMPA FL	BPEDT -20080317ACK

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
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12	WTVT	TAMPA FL	3.9	LIC	BLCDT	-20000501ABM
12	WTVT	TAMPA FL	3.9	PLN	DTVPLN	-DTVP0367
12	WTVT	TAMPA FL	3.9	CP	BPCDT	-20080311ACM
13	WTLV	JACKSONVILLE FL	278.3	LIC	BLCDT	-20040421AAH
13	WTLV	JACKSONVILLE FL	278.3	PLN	DTVPLN	-DTVP0425
13	WMBB	PANAMA CITY FL	412.0	PLN	DTVPLN	-DTVP0426
13	WMBB	PANAMA CITY FL	412.0	CP	BPCDT	-20080410AAW
13	WPEC	WEST PALM BEACH FL	246.7	PLN	DTVPLN	-DTVP0428
13	WPEC DT	WEST PALM BEACH FL	246.7	APP	USERRECORD-01	

Total scenarios = 2

Result key: 3
 Scenario 1 Affected station 4
 Before Analysis

Results for: 13A FL TAMPA BPEDT 20080317ACK CP
 HAAT 471.0 m, ATV ERP 25.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	4421927	40169.2
not affected by terrain losses	4419600	40109.2
lost to NTSC IX	0	0.0
lost to additional IX by ATV	147408	1359.8
lost to ATV IX only	147408	1359.8
lost to all IX	147408	1359.8

Potential Interfering Stations Included in above Scenario 1

13A FL JACKSONVILLE	BLCDT	20040421AAH	LIC
13A FL WEST PALM BEACH	DTVPLN	DTVP0428	PLN

After Analysis

Results for: 13A FL TAMPA BPEDT 20080317ACK CP
 HAAT 471.0 m, ATV ERP 25.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	4421927	40169.2
not affected by terrain losses	4419600	40109.2
lost to NTSC IX	0	0.0
lost to additional IX by ATV	157538	1719.7
lost to ATV IX only	157538	1719.7
lost to all IX	157538	1719.7

Potential Interfering Stations Included in above Scenario 1

13A FL JACKSONVILLE	BLCDT	20040421AAH	LIC
13A FL WEST PALM BEACH	USERRECORD01		APP

Percent new IX = 0.2371%

Result key: 4
 Scenario 2 Affected station 4
 Before Analysis

Results for: 13A FL TAMPA BPEDT 20080317ACK CP
 HAAT 471.0 m, ATV ERP 25.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	4421927	40169.2

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not affected by terrain losses	4419600	40109.2
lost to NTSC IX	0	0.0
lost to additional IX by ATV	147408	1359.8
lost to ATV IX only	147408	1359.8
lost to all IX	147408	1359.8

Potential Interfering Stations Included in above Scenario 2

13A FL JACKSONVILLE	DTVPLN	DTVP0425	PLN
13A FL WEST PALM BEACH	DTVPLN	DTVP0428	PLN

After Analysis

Results for: 13A FL TAMPA BPEDT 20080317ACK CP
 HAAT 471.0 m, ATV ERP 25.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	4421927	40169.2
not affected by terrain losses	4419600	40109.2
lost to NTSC IX	0	0.0
lost to additional IX by ATV	157538	1719.7
lost to ATV IX only	157538	1719.7
lost to all IX	157538	1719.7

Potential Interfering Stations Included in above Scenario 2

13A FL JACKSONVILLE	DTVPLN	DTVP0425	PLN
13A FL WEST PALM BEACH	USERRECORD01		APP

Percent new IX = 0.2371%

Worst case new IX 0.2371% Scenario 1

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Analysis of Interference to Affected Station 5

Analysis of current record

Channel	Call	City/State	Application Ref. No.
13	WPEC DT	WEST PALM BEACH FL	USERRECORD-01

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
12	WPTV	WEST PALM BEACH FL	0.4	PLN	DTVPLN -DTVP0368
12	WPTV	WEST PALM BEACH FL	0.4	CP	BPCDT -20080228AAA
13	WEDU	TAMPA FL	245.8	PLN	DTVPLN -DTVP0427
13	WEDU	TAMPA FL	246.7	CP	BPEDT -20080317ACK

Total scenarios = 2

Result key: 5
 Scenario 1 Affected station 5
 Before Analysis

Results for: 13A FL WEST PALM BEACH USERRECORD01 APP
 HAAT 309.0 m, ATV ERP 90.0 kW

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	POPULATION	AREA (sq km)
within Noise Limited Contour	5197268	31907.9
not affected by terrain losses	5197268	31907.9
lost to NTSC IX	0	0.0
lost to additional IX by ATV	239	35.9
lost to ATV IX only	239	35.9
lost to all IX	239	35.9

Potential Interfering Stations Included in above Scenario 1

13A FL TAMPA DTVPLN DTVP0427 PLN

Result key: 6
 Scenario 2 Affected station 5
 Before Analysis

Results for: 13A FL WEST PALM BEACH USERRECORD01 APP
 HAAT 309.0 m, ATV ERP 90.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	5197268	31907.9
not affected by terrain losses	5197268	31907.9
lost to NTSC IX	0	0.0
lost to additional IX by ATV	4584	159.6
lost to ATV IX only	4584	159.6
lost to all IX	4584	159.6

Potential Interfering Stations Included in above Scenario 2

13A FL TAMPA BPEDT 20080317ACK CP

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