

Summary Study

Percent allowed new interference: 0.500
Percent allowed new interference to non Class A LPTV: 2.000
Census data selected 2000
Data Base Selected
./data_files/pt_tvdb.sff
TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 02-11-2013 Time: 12:54:14

Record selected for Analysis (Record is a DTS)

WVPY1-D. BDTS -30000101DTS FRONT ROYAL VA US
Channel 21 ERP 100.00 kw HAAT 0 m RCAMSL 668 m
Latitude 38 -57-36 Longitude 78 -19-52
Status APP Zone 1 Border Site number: 01
Dir Antenna Make usr Model USRPAT01 Beam tilt N Ref Azimuth 0
Last update Cutoff date 40000101 Docket
Comments
Applicant

WVPY2-D. BDTS -30000101DTS FRONT ROYAL VA US
Channel 21 ERP 0.1000 kw HAAT 0 m RCAMSL 680 m
Latitude 38 -36-31 Longitude 78 -54-7.
Status APP Zone 1 Border Site number: 02
Dir Antenna Make usr Model USRPAT02 Beam tilt N Ref Azimuth 0
Last update Cutoff date 40000101 Docket
Comments
Applicant

WVPY3-D. BDTS -30000101DTS FRONT ROYAL VA US
Channel 21 ERP 0.0980 kw HAAT 0 m RCAMSL 958 m
Latitude 38 -36-5. Longitude 78 -37-58
Status APP Zone 1 Border Site number: 03
Dir Antenna Make usr Model USRPAT03 Beam tilt N Ref Azimuth 100
Last update Cutoff date 40000101 Docket
Comments
Applicant

WVPY4-D. BDTS -30000101DTS FRONT ROYAL VA US
Channel 21 ERP 0.5000 kw HAAT 0 m RCAMSL 1190 m
Latitude 38 -28-43 Longitude 78 -24-58
Status APP Zone 1 Border Site number: 04
Dir Antenna Make usr Model USRPAT04 Beam tilt N Ref Azimuth 75
Last update Cutoff date 40000101 Docket
Comments
Applicant

Cell Size for Service Analysis 2.0 km/side

Distance Increments for Longley-Rice Analysis 1.00 km

Facility (site # 01) meets maximum height/power limits

Facility (site # 02) meets maximum height/power limits

Facility (site # 03) meets maximum height/power limits

Facility (site # 04) meets maximum height/power limits

Site number	1			
Azimuth	ERP	HAAT	41.0 dBu F(50,90)	
(Deg)	(kw)	(m)	(km)	
0.0	98.691	467.0	90.9	
45.0	97.702	473.1	91.3	
90.0	51.149	497.5	88.1	
135.0	2.496	403.9	63.6	
180.0	7.095	343.7	66.3	
225.0	73.652	236.2	71.7	
270.0	98.740	405.0	87.6	
315.0	98.756	385.3	86.4	

Database HAAT does not agree with computed HAAT
Database HAAT: 0 Computed HAAT: 401

Site number	2			
Azimuth	ERP	HAAT	41.0 dBu F(50,90)	
(Deg)	(kw)	(m)	(km)	
0.0	0.100	120.7	30.9	
45.0	0.005	251.2	22.8	
90.0	0.000	318.7	9.2	
135.0	0.000	286.4	8.8	
180.0	0.000	241.3	8.2	
225.0	0.000	82.4	5.0	
270.0	0.000	33.0	3.2	
315.0	0.005	92.4	13.4	

Database HAAT does not agree with computed HAAT
Database HAAT: 0 Computed HAAT: 178

Site number	3			
Azimuth	ERP	HAAT	41.0 dBu F(50,90)	
(Deg)	(kw)	(m)	(km)	
0.0	0.000	643.4	12.2	
45.0	0.000	642.8	15.8	
90.0	0.087	662.2	50.4	
135.0	0.024	499.5	39.1	
180.0	0.000	651.3	12.3	
225.0	0.000	536.2	11.7	
270.0	0.000	612.0	12.1	
315.0	0.000	618.0	12.1	

Database HAAT does not agree with computed HAAT
Database HAAT: 0 Computed HAAT: 608

Site number 4

Azimuth (Deg)	ERP (kw)	HAAT (m)	41.0 dBu F(50,90) (km)
0.0	0.000	511.1	11.5
45.0	0.192	688.0	55.9
90.0	0.384	851.0	63.4
135.0	0.000	847.5	14.0
180.0	0.000	703.3	12.7
225.0	0.000	339.6	9.4
270.0	0.000	593.2	12.0
315.0	0.000	626.7	12.1

Database HAAT does not agree with computed HAAT
Database HAAT: 0 Computed HAAT: 645

Evaluation toward Class A Stations from site # 01

No Spacing violations or contour overlap
to Class A stations from site # 01

Evaluation toward Class A Stations from site # 02

No Spacing violations or contour overlap
to Class A stations from site # 02

Evaluation toward Class A Stations from site # 03

No Spacing violations or contour overlap
to Class A stations from site # 03

Evaluation toward Class A Stations from site # 04

No Spacing violations or contour overlap
to Class A stations from site # 04

Class A Evaluation Complete

SPACING VIOLATION FOUND BETWEEN STATION

WVPY1-D. 21 FRONT ROYAL VA BDTS 30000101DTS Site # 01

and station

SHORT TO: WVPY 21 FRONT ROYAL VA DTVPLN DTVP0769
38 -57-36 78 -19-52
Req. separation 196.3 Actual separation 0.0 Short 196.3 km

SHORT TO: WVPY 21 FRONT ROYAL VA BLEDT 20100209AAB
038-57-36 0078-19-52

Req. separation 196.3 Actual separation 0.0 Short 196.3 km

LANDMOBILE SPACING VIOLATIONS FOUND

NONE from Site # 01

SPACING VIOLATION FOUND BETWEEN STATION

WVPY2-D. 21 FRONT ROYAL VA BDTS 30000101DTS Site # 02

and station

SHORT TO: WVPY 21 FRONT ROYAL VA DTVPLN DTVP0769
38 -57-36 78 -19-52
Req. separation 196.3 Actual separation 63.1 Short 133.2 km

SHORT TO: WVPY 21 FRONT ROYAL VA BLEDT 20100209AAB
038-57-36 0078-19-52
Req. separation 196.3 Actual separation 63.1 Short 133.2 km

LANDMOBILE SPACING VIOLATIONS FOUND

NONE from Site # 02

SPACING VIOLATION FOUND BETWEEN STATION

WVPY3-D. 21 FRONT ROYAL VA BDTS 30000101DTS Site # 03

and station

SHORT TO: WVPY 21 FRONT ROYAL VA DTVPLN DTVP0769
38 -57-36 78 -19-52
Req. separation 196.3 Actual separation 47.7 Short 148.6 km

SHORT TO: WVPY 21 FRONT ROYAL VA BLEDT 20100209AAB
038-57-36 0078-19-52
Req. separation 196.3 Actual separation 47.7 Short 148.6 km

LANDMOBILE SPACING VIOLATIONS FOUND

NONE from Site # 03

SPACING VIOLATION FOUND BETWEEN STATION

WVPY4-D. 21 FRONT ROYAL VA BDTS 30000101DTS Site # 04

and station

SHORT TO: WVPY 21 FRONT ROYAL VA DTVPLN DTVP0769
38 -57-36 78 -19-52
Req. separation 196.3 Actual separation 53.9 Short 142.4 km

SHORT TO: WVPY 21 FRONT ROYAL VA BLEDT 20100209AAB
038-57-36 0078-19-52
Req. separation 196.3 Actual separation 53.9 Short 142.4 km

LANDMOBILE SPACING VIOLATIONS FOUND

NONE from Site # 04

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

Checks to Site Number 02

Proposed facility OK to FCC Monitoring Stations
Proposed facility within 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

Checks to Site Number 03

Proposed facility OK to FCC Monitoring Stations
Proposed facility within 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

Checks to Site Number 04

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

 Start of Interference Analysis

Channel	Proposed Station	Call	City/State	ARN	
21	WVPY1-D.	FRONT ROYAL VA	BDTS	30000101DTS	

Stations Potentially Affected by Proposed Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
20	WWLM-CA	WASHINGTON PA	212.7	CP	BDFCDTA	20081208AAK
20	WWCW	LYNCHBURG VA	214.8	LIC	BLCDDT	20090619ABM
21	WBOC-TV	SALISBURY MD	238.5	LIC	BLCDDT	20090618ABK
21	WBNS-TV	COLUMBUS OH	418.3	APP	BPCDDT	20080620ANA
21	WBNS-TV	COLUMBUS OH	418.3	LIC	BLCDDT	20021025ABK
21	WHP-TV	HARRISBURG PA	198.4	CP	BPCDDT	20100325ABG
21	WHP-TV	HARRISBURG PA	198.4	LIC	BLCDDT	20090615ADL
22	WRIC-TV	PETERSBURG VA	173.1	LIC	BLCDDT	20090209ABZ
24	WAZH-CA	HARRISONBURG VA	42.5	LIC	BLTTTL	19960823JC
25	WSVF-CA	STAUNTON-WAYNESBORO VA	73.7	LIC	BLTTTL	20011107ABW
28	WAZF-CA	WINCHESTER/FRONT ROY VA	29.3	LIC	BLTTTL	19940422IK

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Study of this proposal found the following interference problem(s):

NONE.