

TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 03-01-2008 Time: 13:50:07

Record Selected for Analysis

WMEI USERRECORD-01 ARECIBO PR US
Channel 14 ERP 50. kW HAAT 808. m RCAMSL 01297 m
Latitude 018-09-17 Longitude 0066-33-16
Status APP Zone 2 Border
Dir Antenna Make usr Model USRPAT01 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)	41.0 dBu F(50,90) (km)
0.0	46.080	672.5	96.2
45.0	27.751	628.5	90.3
90.0	0.757	731.2	65.9
135.0	0.099	1017.1	57.1
180.0	0.114	1097.7	59.1
225.0	2.681	990.2	80.4
270.0	35.280	554.0	88.8
315.0	48.856	769.2	100.0

Evaluation toward Class A Stations

No Spacing violations or contour overlap to Class A stations

Class A Evaluation Complete

SPACING VIOLATION FOUND BETWEEN STATION

WMEI 14 ARECIBO PR USERRECORD01

and station

SHORT TO: WMEI 14 ARECIBO PR BMPCT 20060614ABI
018-09-17 0066-33-16
Req. separation 223.7 Actual separation 0.0 Short 223.7 km

LANDMOBILE SPACING VIOLATIONS FOUND

NONE

Proposed facility OK to FCC Monitoring Stations

Proposed facility OK toward West Virginia quite zone

Proposed facility OK toward Table Mountian

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	Call	Proposed Station City/State	ARN
14	WMEI	ARECIBO PR	USERRECORD01

Stations Potentially Affected by Proposed Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
15	WTIN	PONCE PR	2.9	CP MOD	BMPCDT	-20040803ABE
15	WVIF	CHRISTIANSTED VI	190.8	LIC	BLCT	-20001227ABK

Analysis of Interference to Affected Station 1

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
15	WTIN	PONCE PR	BMPCDT	-20040803ABE

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
15	WVIF	CHRISTIANSTED VI	193.5	LIC	BLCT	-20001227ABK
16	WMTJ	FAJARDO PR	84.0	CP MOD	BMPEDT	-20030324ACY
14	WMEI	ARECIBO PR	2.9	APP	USERRECORD-01	

Total scenarios = 1

Result key: 1
 Scenario 1 Affected station 1
 Before Analysis

Results for: 15A PR PONCE BMPCDT 20040803ABE CP
 HAAT 839.0 m, ATV ERP 380.2 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	3797251	43122.5
not affected by terrain losses	3580275	42477.8
lost to NTSC IX	0	0.0
lost to additional IX by ATV	227085	1121.2
lost to ATV IX only	227085	1121.2
lost to all IX	227085	1121.2

Potential Interfering Stations Included in above Scenario 1

15A VI CHRISTIANSTED	BLCT	20001227ABK	LIC
16A PR FAJARDO	BMPEDT	20030324ACY	CP

After Analysis

Results for: 15A PR PONCE BMPCDT 20040803ABE CP
 HAAT 839.0 m, ATV ERP 380.2 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	3797251	43122.5
not affected by terrain losses	3580275	42477.8
lost to NTSC IX	0	0.0
lost to additional IX by ATV	232050	1141.2
lost to ATV IX only	232050	1141.2
lost to all IX	232050	1141.2

Potential Interfering Stations Included in above Scenario 1

15A VI CHRISTIANSTED	BLCT	20001227ABK	LIC
16A PR FAJARDO	BMPEDT	20030324ACY	CP
14A PR ARECIBO	USERRECORD01		APP
*Percent Service lost without proposal:	0.0	to BMPCDT	20040803ABE
*Percent Service lost with proposal:	0.1	to BMPCDT	20040803ABE

 Analysis of Interference to Affected Station 2

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
15	WVIF	CHRISTIANSTED VI	BLCT	-20001227ABK

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
15	WTIN	PONCE PR	193.5	CP MOD	BMPCDT	-20040803ABE
16	WMTJ	FAJARDO PR	121.9	CP MOD	BMPEDT	-20030324ACY
14	WMEI	ARECIBO PR	190.8	APP	USERRECORD-01	

Proposed station is beyond the site to
 nearest cell evaluation distance

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Analysis of Interference to Affected Station 3

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
14	WMEI	ARECIBO PR	USERRECORD-01	

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
15	WTIN	PONCE PR	2.9	CP MOD	BMPCDT	-20040803ABE
15	WVIF	CHRISTIANSTED VI	190.8	LIC	BLCT	-20001227ABK

Total scenarios = 1

Result key: 2
 Scenario 1 Affected station 3
 Before Analysis

Results for: 14A PR ARECIBO USERRECORD01 APP

HAAT	808.0 m, ATV ERP	50.0 kW	POPULATION	AREA (sq km)
within Noise Limited Contour			3578251	23686.8
not affected by terrain losses			3191935	22718.7
lost to NTSC IX			0	0.0
lost to additional IX by ATV			363752	3148.4
lost to ATV IX only			363752	3148.4
lost to all IX			363752	3148.4

Potential Interfering Stations Included in above Scenario 1

15A PR PONCE BMPCDT 20040803ABE CP

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