

TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 06-13-2008 Time: 11:06:56

Record Selected for Analysis

WMEI USERRECORD-01 ARECIBO PR US
Channel 14 ERP 315. kW HAAT 839. m RCAMSL 01328 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 does not meet maximum height/power limits
Channel 14 ERP = 315.00 HAAT = 839.

Azimuth (Deg)	ERP (kW)	HAAT (m)	41.0 dBu F(50,90) (km)
0.0	160.136	703.5	108.4
45.0	278.334	659.5	111.5
90.0	75.882	762.2	103.8
135.0	113.726	1048.1	116.1
180.0	14.782	1128.7	98.5
225.0	30.240	1021.2	102.6
270.0	192.630	585.0	104.9
315.0	289.192	800.2	117.7

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 BDTV 1347
 18 -09-17 066 -33-16
 Req. separation 223.7 Actual separation 0.0 Short 223.7 km

LANDMOBILE SPACING VIOLATIONS FOUND

NONE

Proposed facility is 25.0km from FCC Monitoring station at
 Santa Isabel PR
 Bearing: 130.9 degrees ERP: 130.90 kW HAAT: 998.9 m
 Field = 58.2 mV/m

Proposed facility OK toward West Virginia quite 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
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	LIC	BDTV	-1365
15	WVIF	CHRISTIANSTED VI	190.8	LIC	BDTV	-1685

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Analysis of Interference to Affected Station 1

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
15	WTIN	PONCE PR	BDTV	-1365

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
15	WVIF	CHRISTIANSTED VI	193.5	LIC	BDTV	-1685
16	WMTJ	FAJARDO PR	83.9	LIC	BDTV	-1354
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 BDTV 1365 LIC
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	3579404	42469.8
lost to NTSC IX	0	0.0
lost to additional IX by ATV	239865	1137.2
lost to ATV IX only	239865	1137.2
lost to all IX	239865	1137.2

Potential Interfering Stations Included in above Scenario 1

15A VI CHRISTIANSTED	BDTV	1685	LIC
16A PR FAJARDO	BDTV	1354	LIC

After Analysis

Results for: 15A PR PONCE BDTV 1365 LIC
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	3579404	42469.8
lost to NTSC IX	0	0.0
lost to additional IX by ATV	250219	1217.3
lost to ATV IX only	250219	1217.3
lost to all IX	250219	1217.3

Potential Interfering Stations Included in above Scenario 1

15A VI CHRISTIANSTED	BDTV	1685	LIC
16A PR FAJARDO	BDTV	1354	LIC
14A PR ARECIBO	USERRECORD01		APP
*Percent Service lost without proposal:		0.0	to BDTV 1365
*Percent Service lost with proposal:		0.3	to BDTV 1365

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Analysis of Interference to Affected Station 2

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
15	WVIF	CHRISTIANSTED VI	BDTV	-1685

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
15	WTIN	PONCE PR	193.5	LIC	BDTV	-1365
16	WMTJ	FAJARDO PR	122.0	LIC	BDTV	-1354
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	LIC	BDTV	-1365
15	WVIF	CHRISTIANSTED VI	190.8	LIC	BDTV	-1685

Total scenarios = 1

Result key: 2
Scenario 1 Affected station 3
Before Analysis

Results for: 14A PR ARECIBO USERRECORD01 APP

HAAT 839.0 m, ATV ERP 315.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	3797636	40381.9
not affected by terrain losses	3571129	39593.4
lost to NTSC IX	0	0.0
lost to additional IX by ATV	53228	464.3
lost to ATV IX only	53228	464.3
lost to all IX	53228	464.3

Potential Interfering Stations Included in above Scenario 1

15A PR PONCE	BDTV	1365	LIC
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